

May 25, 2023

FOI No: 2023-33

Redacted S. 22

Email: Redacted S. 22

Dear Redacted S. 22

Re: Request for Records
Freedom of Information and Protection of Privacy Act

The City of White Rock has reviewed your request for access to the following records pursuant to the Freedom of Information and Protection of Privacy Act (the "Act"):

- *All public comments or correspondence related to proposed frontage improvements or other capital work projects along Blackburn Crescent between High and Archibald Streets from the period of January 1, 2020 to present.*

Correspondence, documents or other information related to any proposed capital works project on Blackburn Crescent from 1/1/2019 to present.

We have completed the search and review of our records and have located copyright pages, which have been included with this response. These pages include drawings released subject to the Federal *Copyright Act* and in accordance with the *Freedom of Information and Protection of Privacy Act*, and further copies must not be made without permission of the holder of the copyright.

Access to the records requested is available at this time up until approximately May 1, 2023, however, some of the information in the records is excepted from the disclosure requirements of the Act. I have severed the excepted information so that I could disclose to you the remaining information as attached.

The severed information is excepted from disclosure under sections 21 and 22 of the Act. Severing under section 22 is necessary to avoid disclosing third-party personal information without permission and under section 21 is necessary to avoid disclosure harmful to business interests of a third party.

Corporate Administration
P: 604.541.2212 | F: 604.541.9348

City of White Rock
15322 Buena Vista Avenue, White Rock BC, Canada V4B 1Y6

WHITE ROCK
City by the Sea!

www.whiterockcity.ca

Please contact me if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Arthur." with a period at the end.

Tracey Arthur
Director of Corporate Administration

Att.

If you believe that the City of White Rock has been unreasonable in its handling of your request, you may ask the Information and Privacy Commissioner to review our response. You have 30 days from receipt of this notice to request a review by writing to:













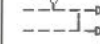



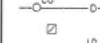







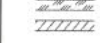



















































Office of the Information and Privacy Commissioner
3rd Floor, 756 Fort Street
Victoria BC V8W 1H2

Should you decide to request a review, please provide the Commissioner's office with:

1. your name, address and telephone number;
2. a copy of this letter;
3. a copy of your original request sent to the City of White Rock; and
4. the reasons or grounds upon which you are requesting the review.

CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN BUILDING			WATERMAIN
		EDGE OF PAVEMENT			WATER SERVICE CONNECTION
		CURB & GUTTER			WATER VALVE
		TRUCK ROUTE			AIR VALVE
		SANITARY SEWER			HYDRANT & VALVE ASSEMBLY
		SANITARY CONNECTION & INSPECTION CHAMBER			YARD HYDRANT
		STORM SEWER			CAPPED END
		STORM CONNECTION & INSPECTION CHAMBER			WATER METER
		STORM SEWER SERVICE			BLOW-OFF
		FRENCH DRAIN			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		STORM SEWER & CLEANOUT			UNDERGROUND ELECTRICAL AND MANHOLE
		CATCH BASIN - TOP INLET & SIDE INLET			GASMAN
		LAWN DRAIN			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - DAWT
		SWALE			ORNAMENTAL STREET LIGHT - POST TOP
		DITCH			UTILITY POLE
		SIDEWALK (ASPHALT)			UTILITY POLE W/ LIGHT
		SIDEWALK (CONCRETE)			JUNCTION BOX
					GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES AND DETAILSSS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D1-1	01
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	03
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	04
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	05
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	06
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	07
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	08
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	10



R.F. BINNIE & ASSOCIATES LTD.
314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com



Can General Notes sheet be separate from Construction Detail sheet?

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, AND FORTIS BC PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
3. ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
4. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
6. THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
7. OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
8. ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
12. SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
13. THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SANITARY AND STORM SEWER NOTES:

1. THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH-LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
2. THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.

3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
4. ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
5. ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
6. ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
7. ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD, UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY SEWER SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
9. ALL SANITARY SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS.
10. ALL WYES SHALL BE MANUFACTURED.
11. THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
12. THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A 'PAC' CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
14. THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

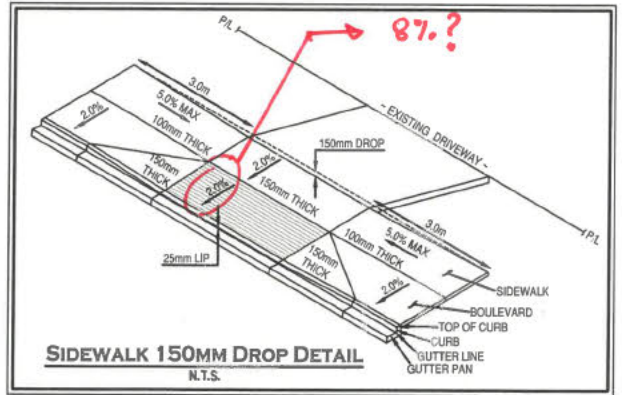
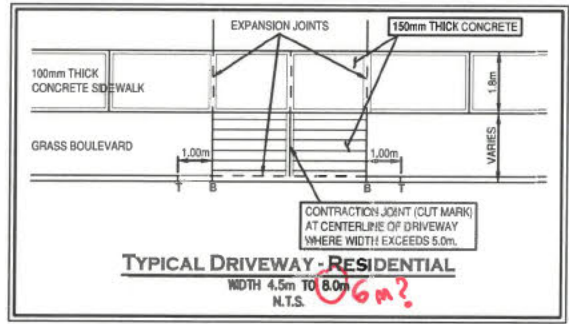
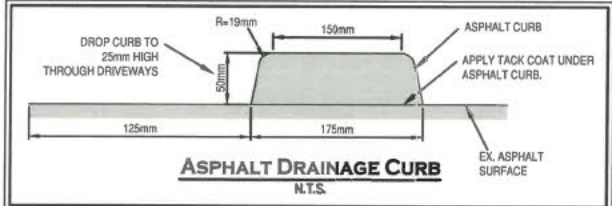
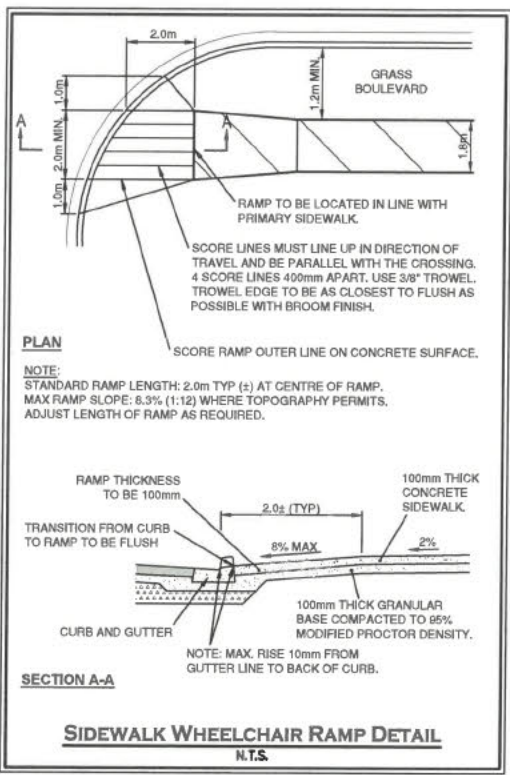
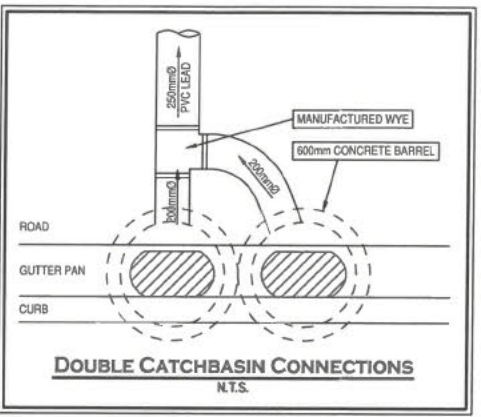
1. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATER BODIES.
2. STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
4. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
2. THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
3. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
4. THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
5. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP IN RED COLOUR AND UPDATED ON A DAILY BASIS TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
2. THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
3. THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
4. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A. A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS'; AND
 - B. A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS'.



*- Roadwork notes
- Paving notes
- Pavement Markings*

SUMMARY OF MATERIAL TESTING FREQUENCY

MATERIAL	MMCD REFERENCE	TESTING FREQUENCY
CONCRETE CURB AND SIDEWALK	03 30 53 - 1.6.2	1 PER 10m ³ MIN. 1 PER DAY PER SITE LOCATION
SIEVE ANALYSIS AND PROCTORS	31 05 17 - 1.5.2	1 PRIOR TO COMMENCING WORK 1 EVERY 1,000 TONNES
TRENCH (DENSITIES)	31 23 01 - 3.5.4.4	1 PER 50 LINEAL METRE PER 600mm THICK LIFT
ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION (DENSITIES)	31 24 13 - 3.5.7	1 PER 250m ³ PER 300mm THICK LIFT
GRANULAR SUBBASE (DENSITIES)	32 11 16.1 - 3.3.6	1 PER 150mm ³ OF MATERIAL PLACED PER 150mm THICK LIFT
GRANULAR BASE (DENSITIES)	32 11 23 - 3.3.6	1 PER 150mm ³ OF MATERIAL PLACED PER 150mm THICK LIFT PROOF ROLL PRIOR TO PAVING AND PLACEMENT OF CONCRETE CURB AND SIDEWALKS
HOT-MIX ASPHALT (CONVENTIONAL)	32 12 16 - 1.6.3-9	1 TEST PER EACH ASPHALT TYPE MIN. 1 PER DAY PER SITE LOCATION
TOPSOIL	32 91 21 - 1.5.2	1 PRIOR TO COMMENCING WORK

DRAFT

This drawing must not be reproduced without the written permission of R.F. Binnie & Associates Ltd.
This drawing is not to be used for construction unless it is stamped 'ISSUED FOR CONSTRUCTION' and signed by R.F. Binnie & Associates Ltd. It is the contractor's responsibility to ensure that he is in possession of the latest revision of this drawing.

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

BINNIE
The people behind your infrastructure.

R.F. BINNIE & ASSOCIATES LTD.
314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
NOTES AND DETAILSSS

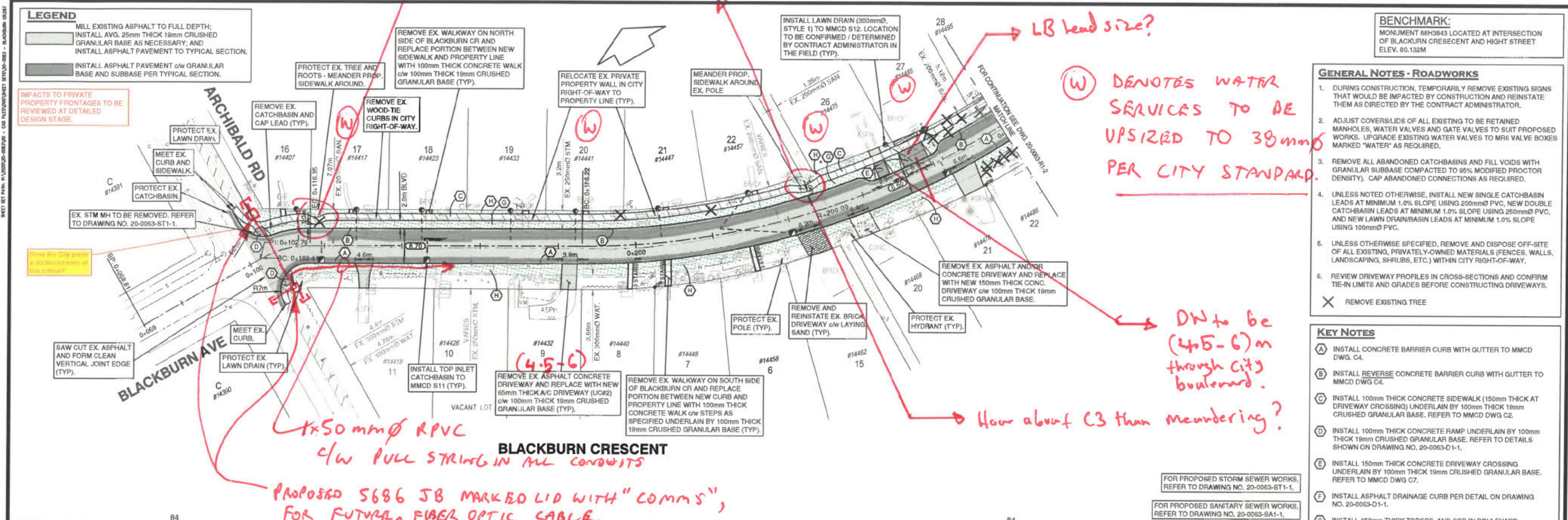
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DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

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NOT TO SCALE

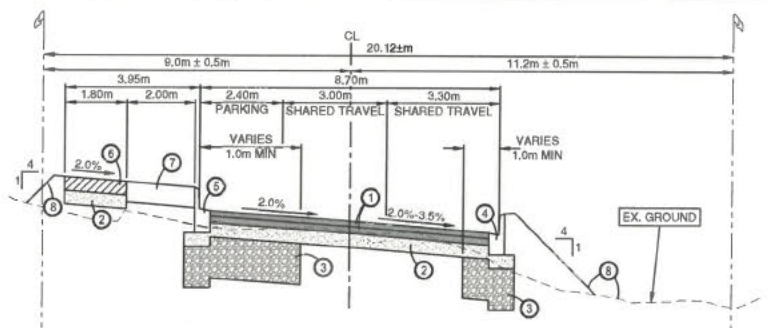
DATE 2020-05-08
DRAWING No.
20-0063-D1-1

SHEET 01 **OF** 10 **REV.** 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

SHEET 01 OF 10 - 2020-05-08 (V01) - CIVIL PLAN/CONSTRUCTION/DETAILS - BLACKBURN CRESCENT



STATION	0+000	0+100	0+107.822	0+110	0+116.798	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+252.909	0+252.227	0+254.546	0+260	0+265.528	0+262.670	0+265.165	0+280	0+300		
PROP. NORTH GUTTER ELEV.			80.112	80.133	80.269	80.319	80.369	80.419	80.469	80.519	80.569	80.619	80.669	80.719	80.769	80.819	80.869	80.919	80.969	81.019	81.069	81.119	81.169	81.219	81.269	81.319	81.369	81.419	81.469	
PROP. ROAD C/L ELEV.			80.009	80.051	80.192	80.232	80.282	80.332	80.382	80.432	80.482	80.532	80.582	80.632	80.682	80.732	80.782	80.832	80.882	80.932	80.982	81.032	81.082	81.132	81.182	81.232	81.282	81.332	81.382	81.432
PROP. SOUTH GUTTER ELEV.					79.983	80.025	80.075	80.125	80.175	80.225	80.275	80.325	80.375	80.425	80.475	80.525	80.575	80.625	80.675	80.725	80.775	80.825	80.875	80.925	80.975	81.025	81.075	81.125	81.175	
EX. GRND ELEV. ON PROP. C/L	79.66	79.838	80.042	80.110	80.18	80.243	80.25	80.267	80.30	80.327	80.37	80.372	80.41	80.405	80.36	80.316	80.25	80.187	80.14	80.127	80.09	80.072	80.072	80.072	80.072	80.072	80.072	80.072	80.072	
HIGH POINT																														



TYPICAL SECTION
BLACKBURN CRESCENT (0+124 TO 0+300)
SCALE 1:100H 1:25V

- 1 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
 - 40mm THICK UPPER COURSE #2;
 - 50mm THICK LOWER COURSE #2.
- 2 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- 3 300mm THICK 75mm SELECT GRANULAR SUBBASE COMPACTED TO MIN. 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- 4 CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD DRAWING NO. C4.
- 5 REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD MMCD DRAWING NO. C4.
- 6 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING). REFER TO MMCD DRAWING NO. C2.
- 7 150mm THICK TOPSOIL AND SOD FOR BOULEVARD TREE PLANTING.
- 8 150mm THICK TOPSOIL AND HYDROSEED TO PROPERTY LINE.

No.	DATE	REVISION	BY
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877 NEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
ROADWORKS

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY RANM
CHECKED BY RA

SCALES
H 1:500 20m
V 1:50 2m

DATE 2020-01-28
DRAWING No. **20-0063-R1-1**

SHEET 02 OF 10 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

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METEOROLOGICAL DATA: 2020-05-12 11:53 AM. PROJECT: 20-0063-PM1-1. DRAWING: 20-0063-PM1-1. SHEET: 04 OF 10. SCALE: 1:500. DATE: 2020-05-12.

BENCHMARK:
 MONUMENT 88H3843 LOCATED AT INTERSECTION
 OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

- GENERAL NOTES - PAVEMENT MARKING**
- ALL PAVEMENT MARKING LINES AND SYMBOLS TO BE THERMOPLASTIC.
 - PAVEMENT MARKING AND SIGNS TO BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).

- KEY NOTES**
- A INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
 - B INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
 - C INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

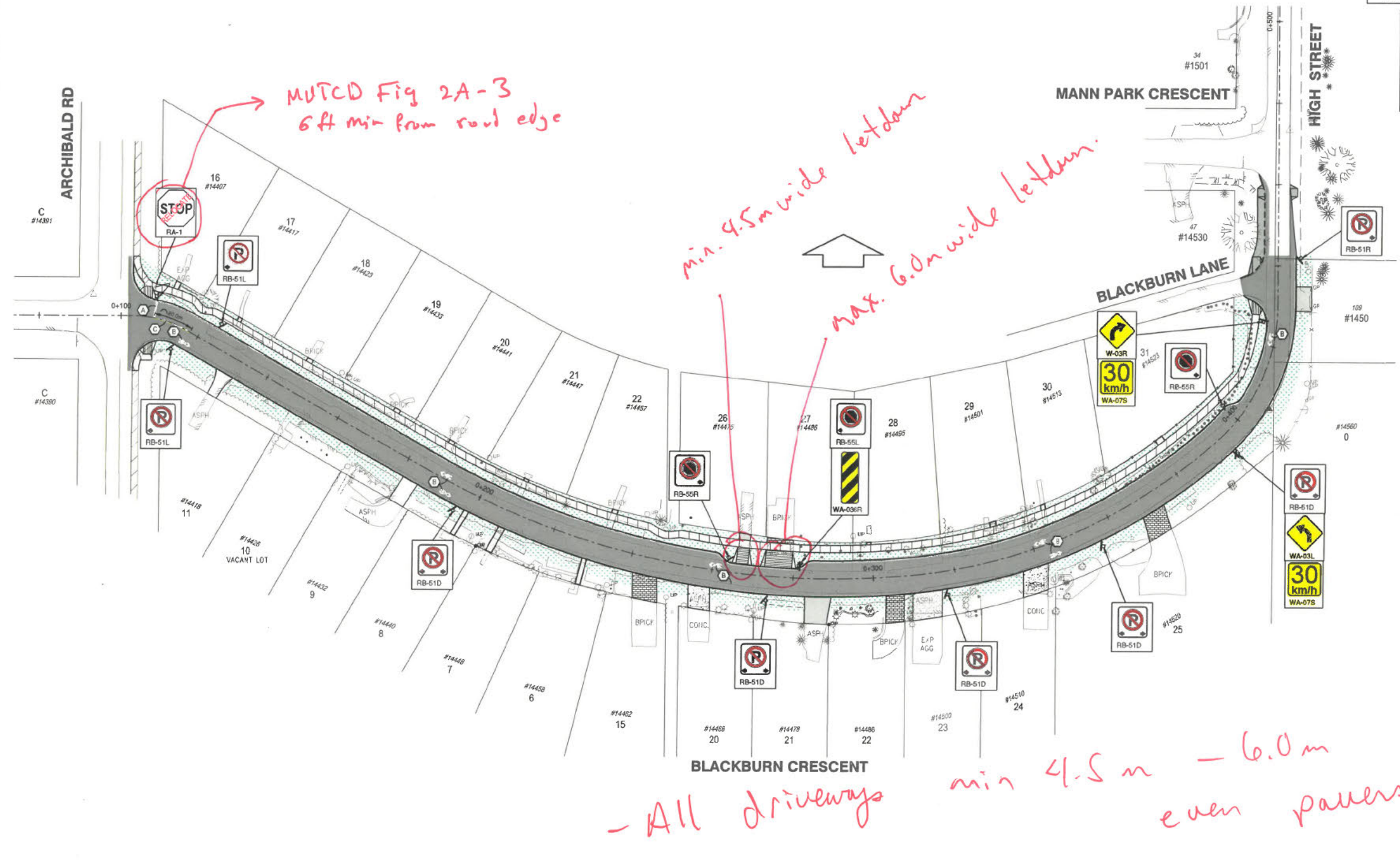
FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

LEGEND

	EXISTING SIGN - SHOWN IN GRAY ONLY
	PROPOSED SIGN - SHOWN IN COLOUR

is this 2009th edition? I cannot find these signs there. Can part 2 section of the manual be provided so we can locate signs and review?



No.	DATE	REVISION	BY
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DRAWING DESCRIPTION
 BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
 BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
 PAVEMENT MARKING AND SIGNAGE

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALE
 0 1:500 20m

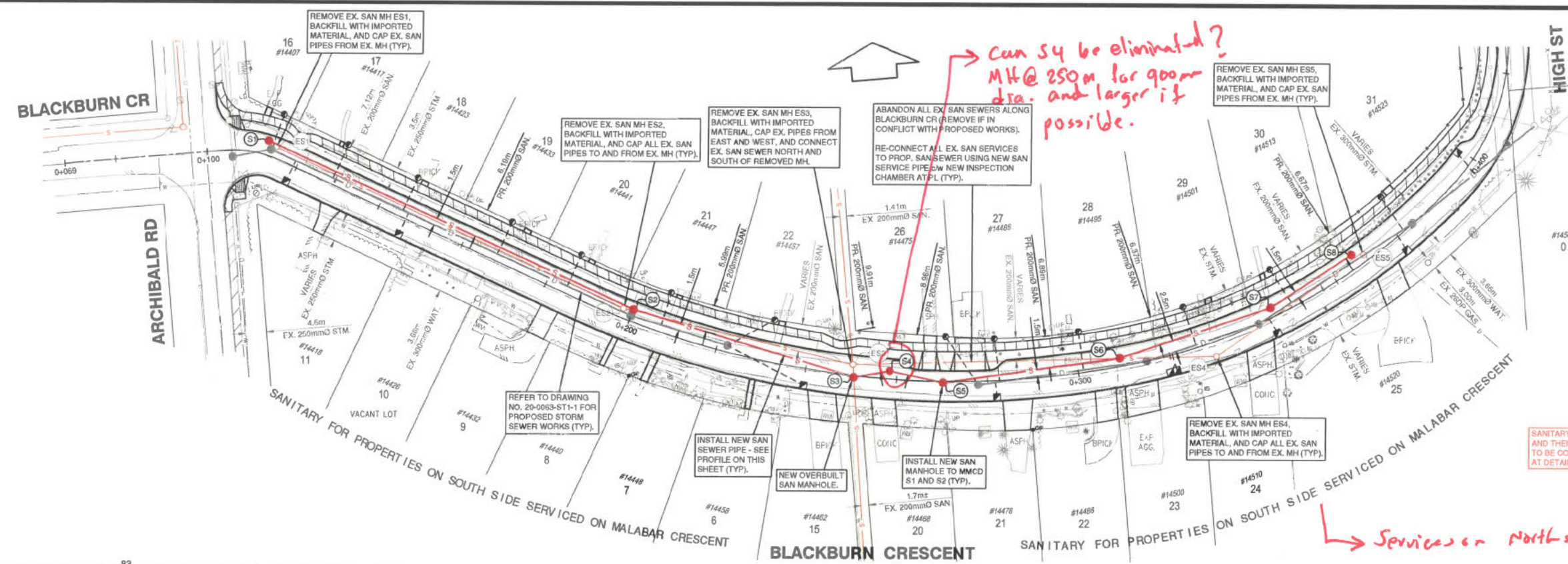
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SHEET 04 OF 10 **REV.** 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

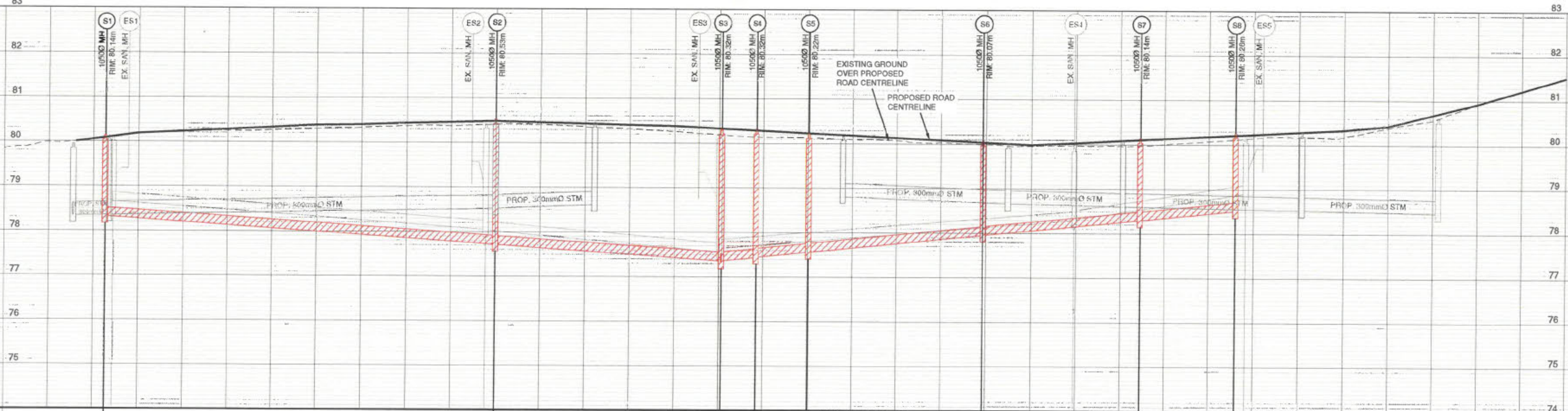
DRAFT

SHEET NO. 05 OF 10 - SANITARY SEWER - BLACKBURN CRESCENT - ARCHIBALD RD TO HIGH ST. DRAWING NO. 20-0063-SA1-1. DATE: 2020-01-28.



- BENCHMARK:**
MONUMENT 884343 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 80.132M
- GENERAL NOTES - SANITARY SEWER**
- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mm Ø SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
 - CONTRACTOR SHALL FIND ANY EXISTING SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM OR NEW INSPECTION CHAMBER AT PL TO MMCD S9.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS C/W VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - SANITARY SEWER UTILITY TRENCHES SHALL BE AS PER MMCD 04.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.
- SANITARY SERVICE CONNECTIONS AND THEIR RESPECTIVE LOCATIONS TO BE COMPLETED AND CONFIRMED AT DETAILED DESIGN STAGE.**
- FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.**
- FOR PROPOSED PAVEMENT MARKING AND SIGNAGE WORKS, REFER TO DRAWING NO. 20-0063-PM1-1.**

Services on north side?



PROP. INVERT ELEVATION	EX. INVERT ELEVATION	STATION ALONG BASELINE
76.327 SE	78.650 SE	0+100
PROP. 87.50m-200mmØ PVC SDR35 SAN. @ 0.70%	EX. 200Ø SAN.	0+120
77.714 W	78.070 NW	0+140
77.714 E	78.070 E	0+160
PROP. 50.17m-200mmØ PVC SDR35 SAN. @ 0.70%	EX. 200Ø SAN.	0+180
77.363 W	77.520 W	0+200
77.363 E	77.520 E	0+220
77.443 W	77.600 W	0+240
77.443 E	77.600 E	0+260
PROP. 8.00m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+280
77.583 W	77.740 W	0+300
77.583 E	77.740 E	0+320
PROP. 12.00m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+340
77.953 W	78.110 W	0+360
77.953 E	78.110 E	0+380
PROP. 39.00m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+400
77.953 W	78.110 W	0+420
77.953 E	78.110 E	0+440
PROP. 34.56m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+460
78.209 W	78.366 W	0+480
78.209 E	78.366 E	0+500
PROP. 21.00m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+520
78.509 W	78.666 W	0+540
78.509 E	78.666 E	0+560

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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

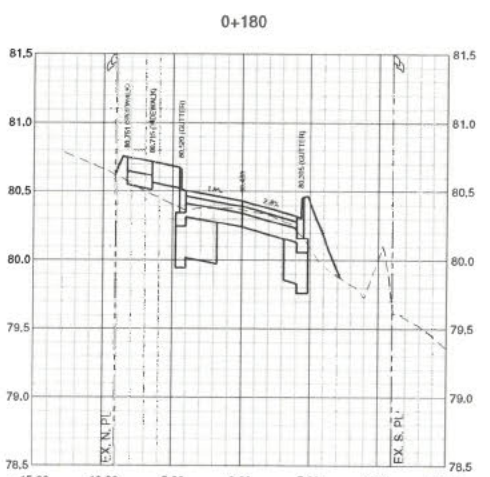
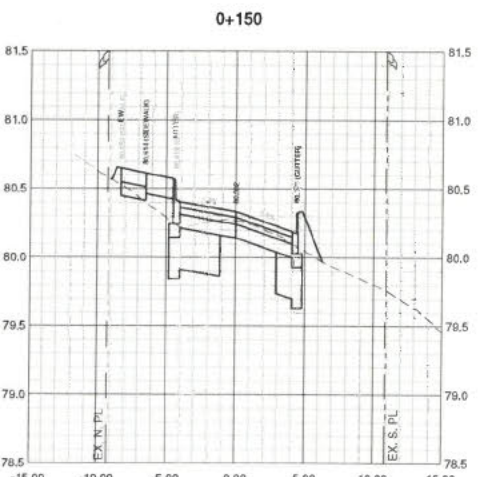
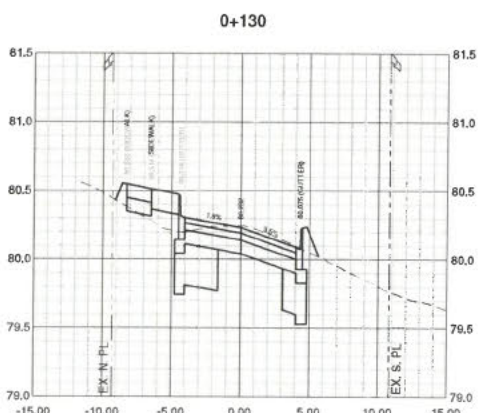
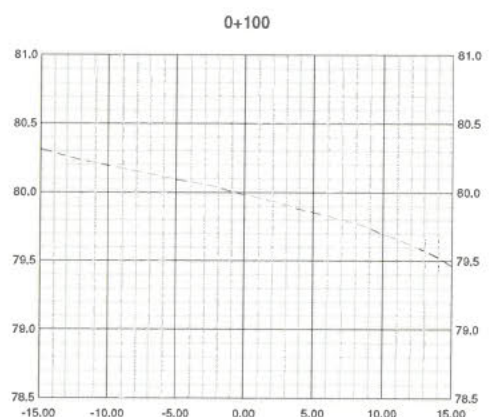
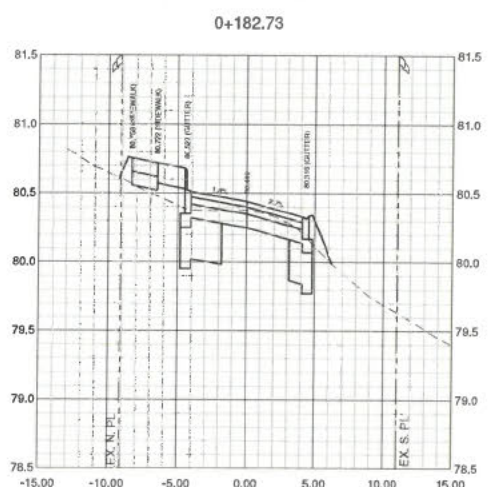
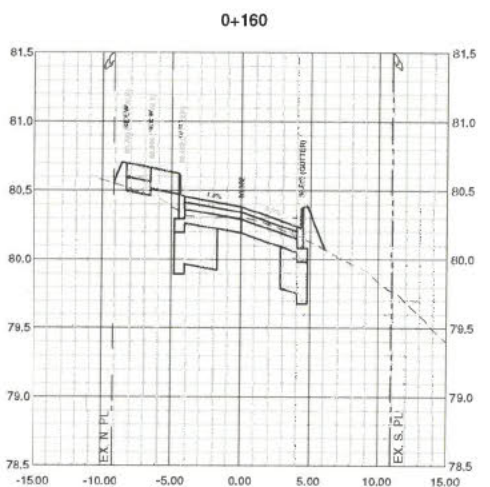
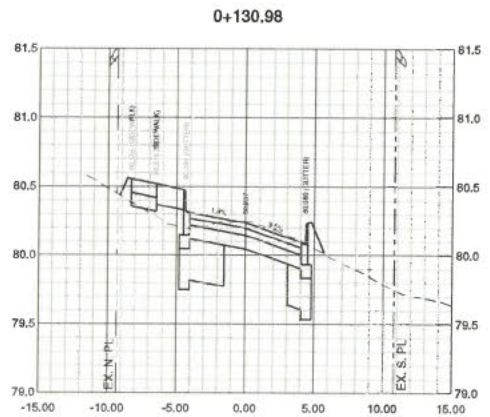
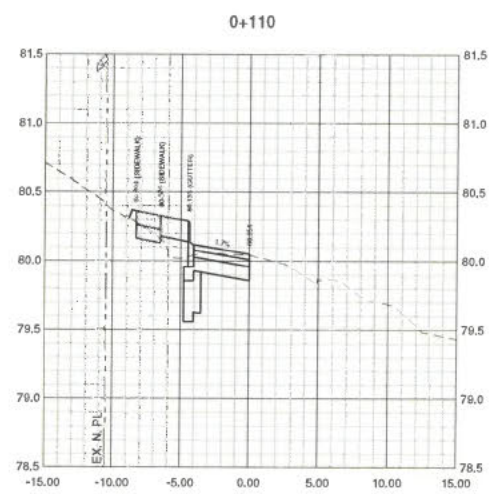
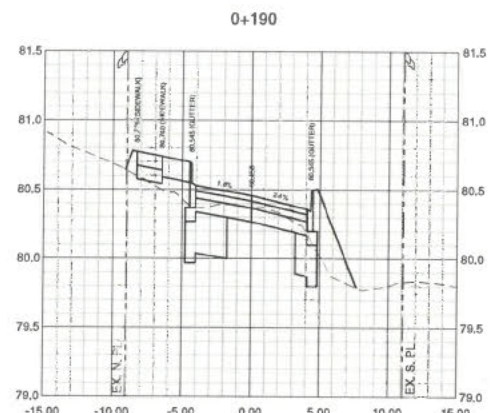
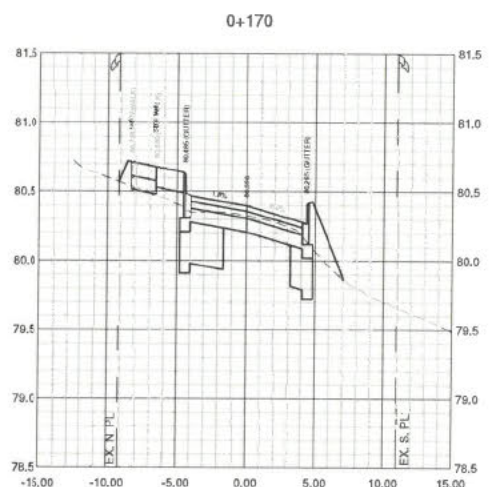
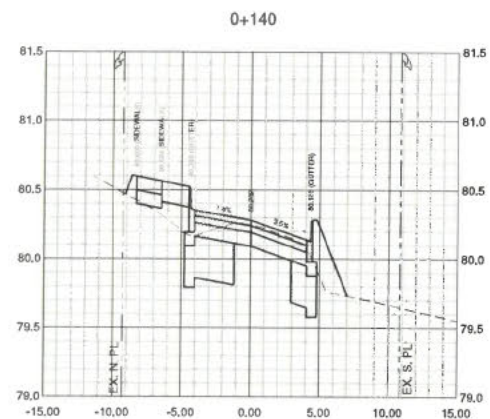
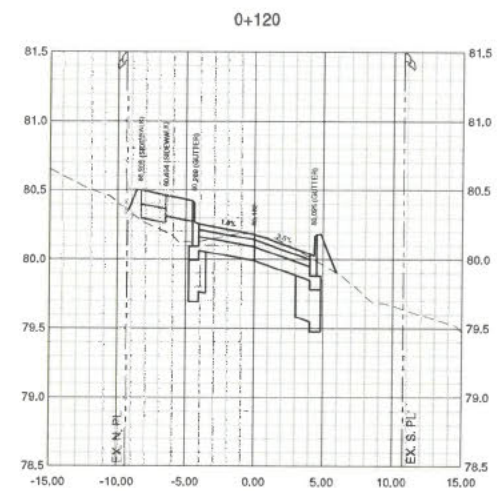
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H 1:500
V 1:50

DATE 2020-01-28
DRAWING No. 20-0063-SA1-1
SHEET 05 OF 10
REV. 1

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SHEET 07 OF 10

PROJECT: 2020-06-12 1:10:19 PM (GMT-8) C:\PROJECTS\2020\2020-06-12 1:10:19 PM (GMT-8)\2020-06-12 1:10:19 PM (GMT-8).DWG



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DRAWING DESCRIPTION:
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY: TA
 DRAWN BY: SV
 DESIGNED BY: RANM
 CHECKED BY: RA

SCALES
 H 1:250 10m
 V 1:25 1m

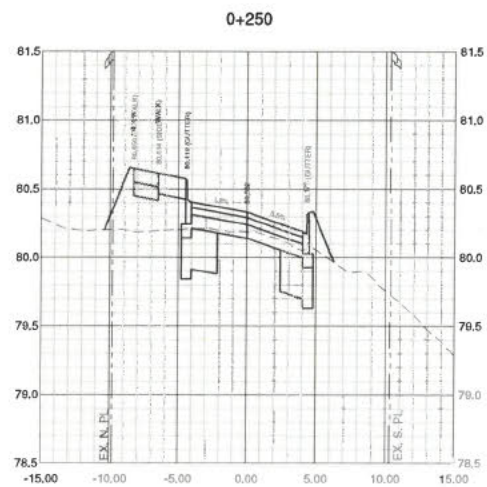
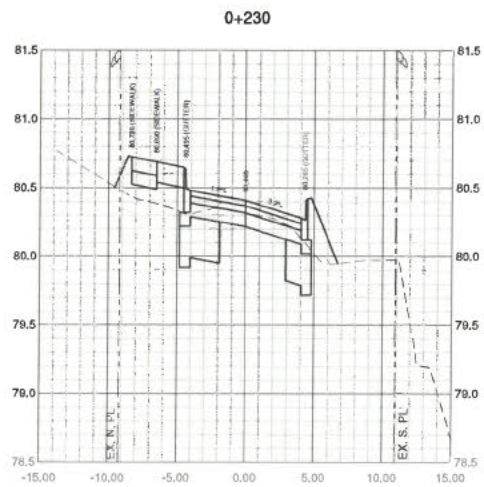
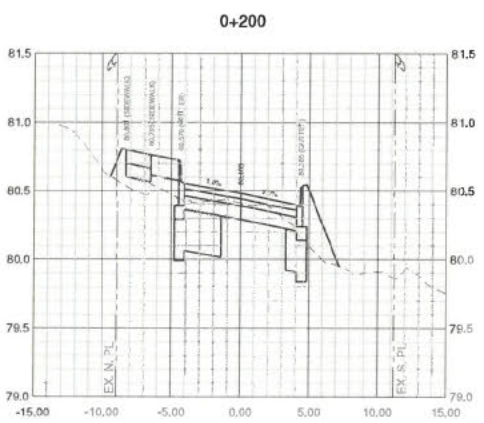
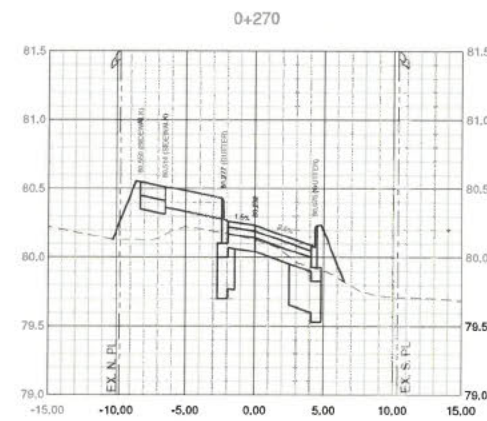
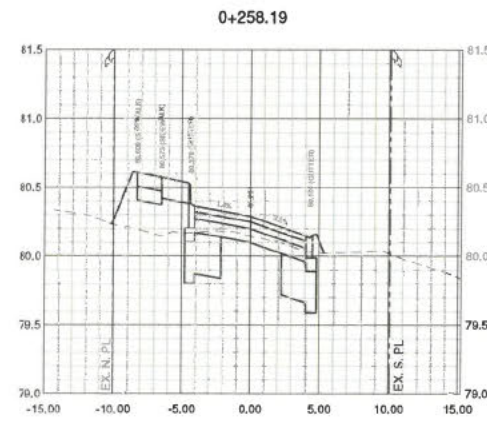
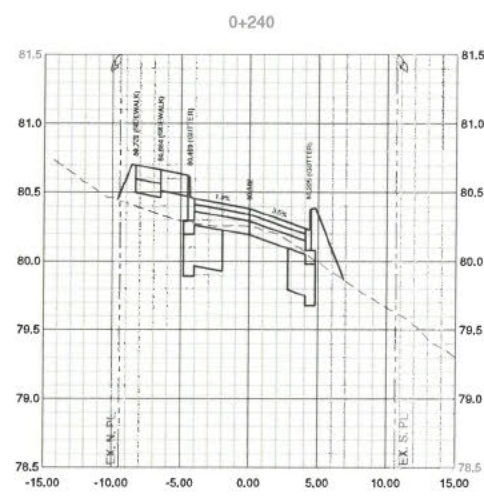
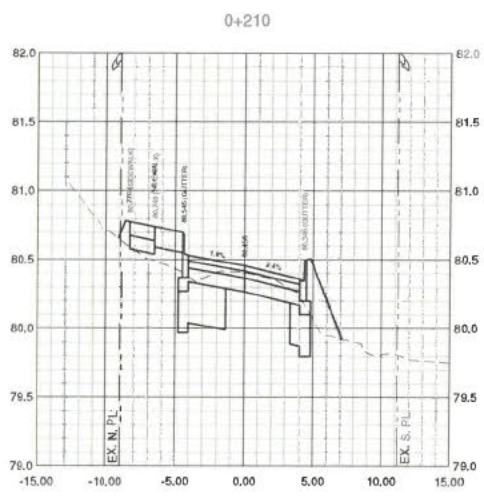
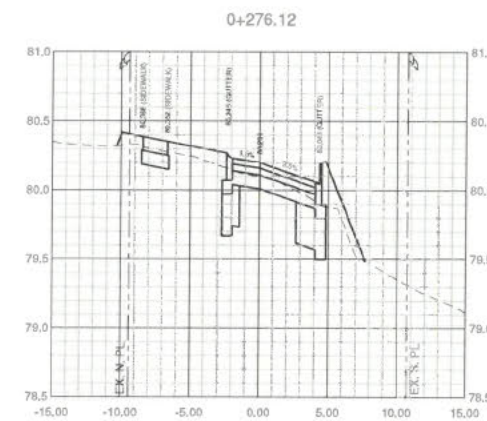
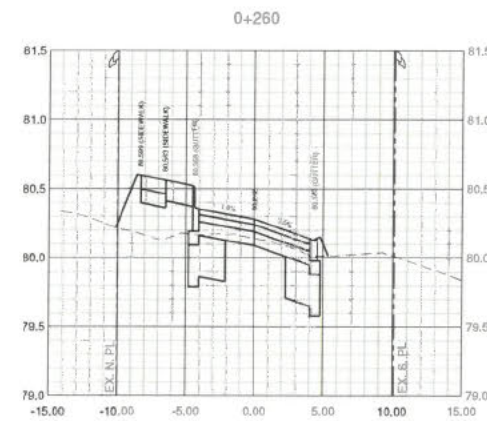
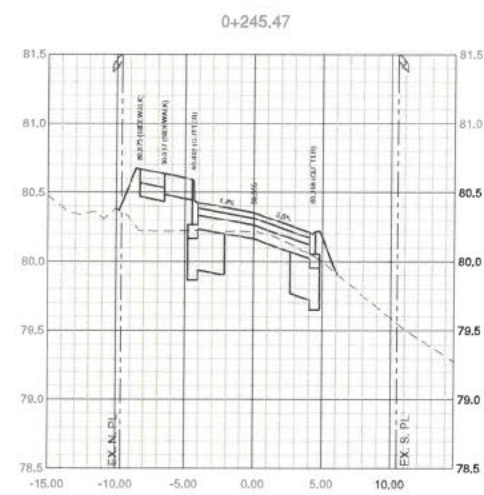
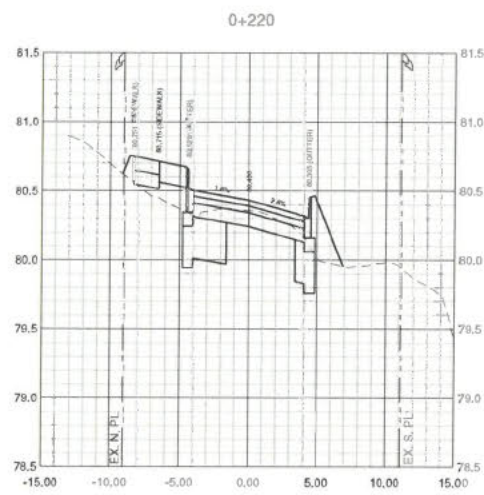
DATE: 2020-01-28
 DRAWING No.: **20-0063-XS1-1**

SHEET 07 OF 10
 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

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PROJECT: 2020-06-06-20-0063-XS1-001 - ARCHIBALD ROAD - 8 AUGUST 2020
 FILE: A:\2020\06\06\20-0063-XS1-001 - ARCHIBALD ROAD - 8 AUGUST 2020



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DRAWING DESCRIPTION:
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY: TA
 DRAWN BY: SV
 DESIGNED BY: RANM
 CHECKED BY: RA

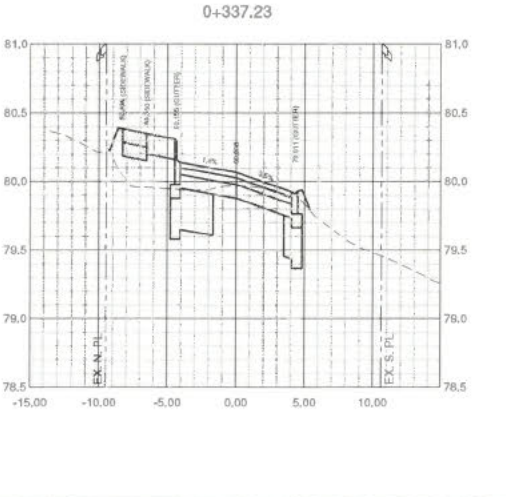
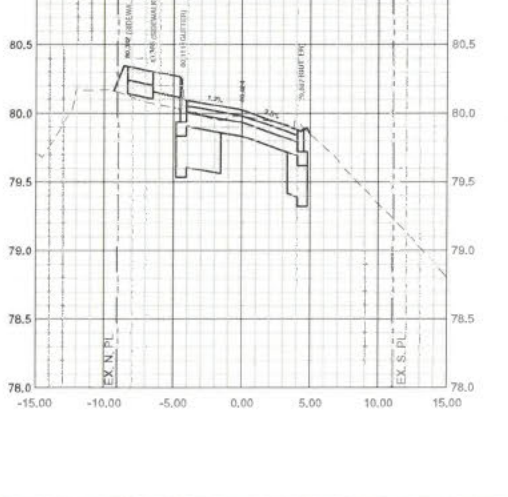
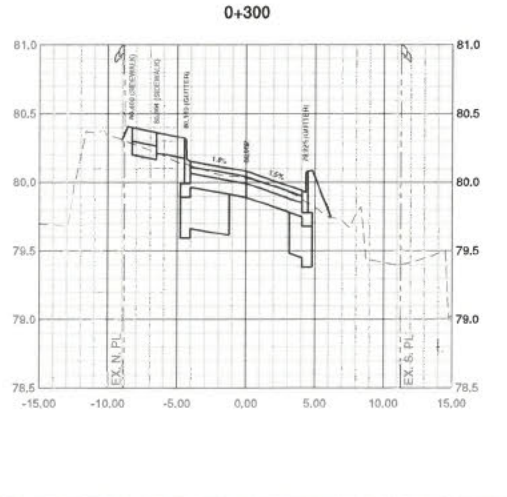
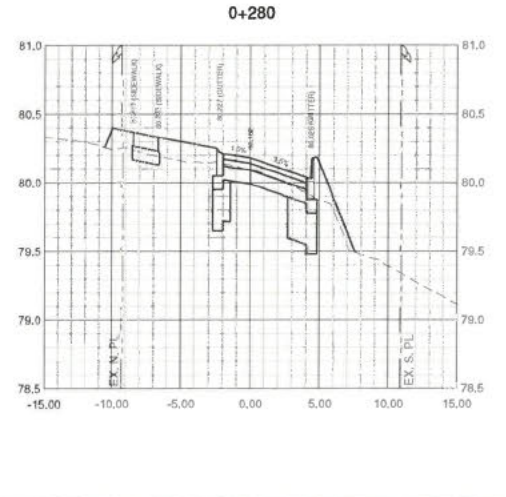
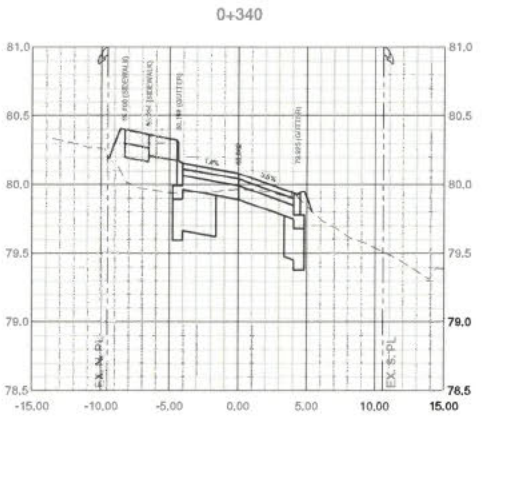
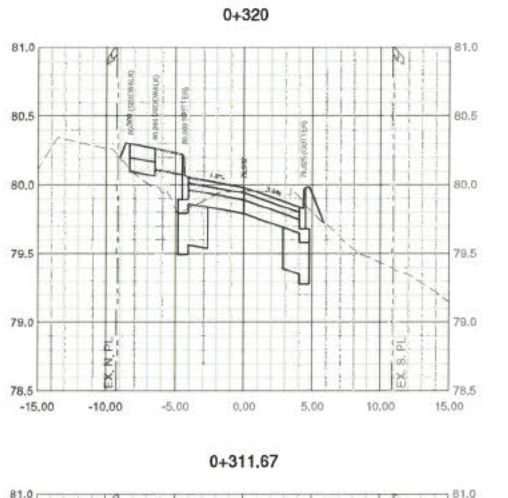
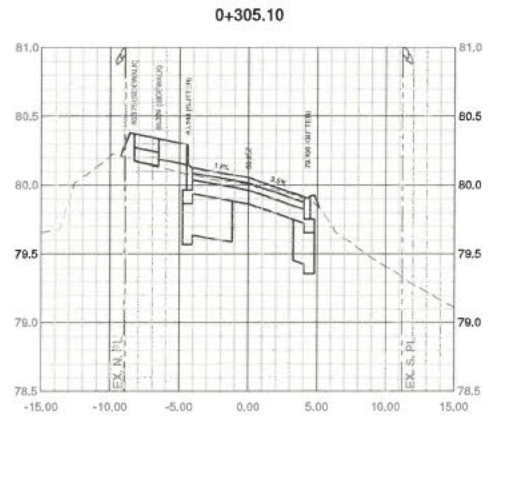
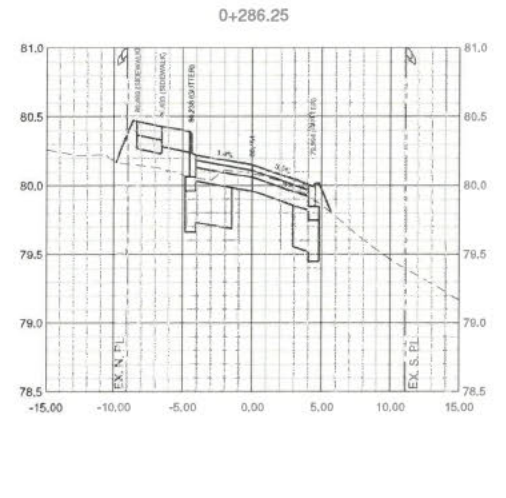
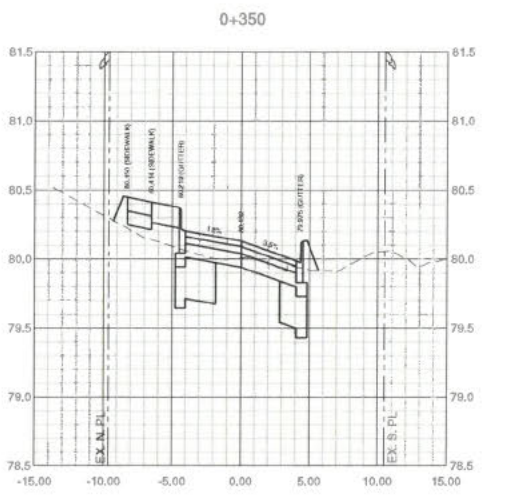
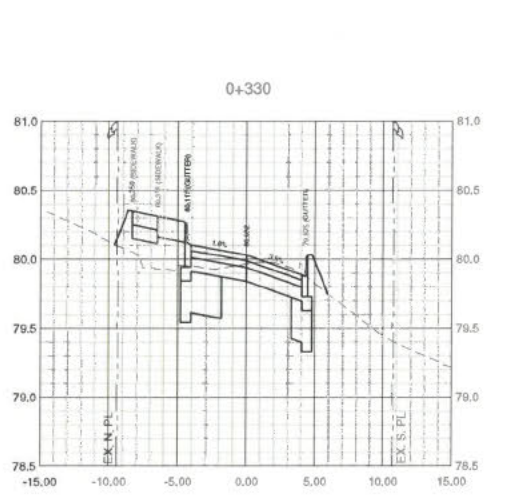
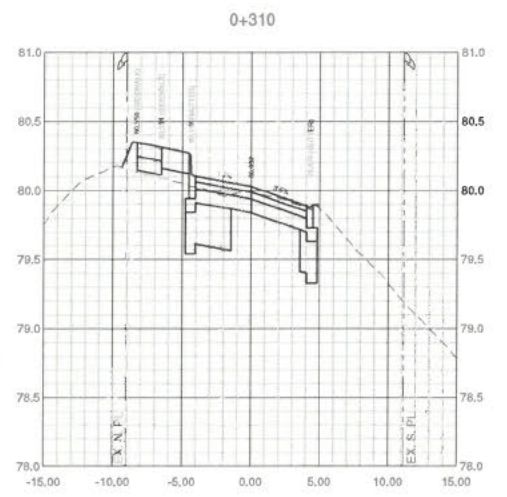
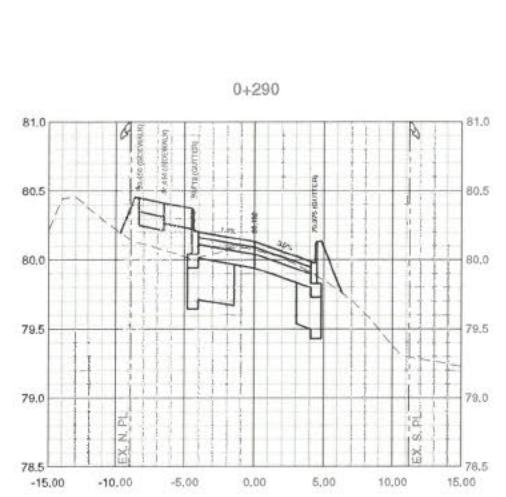
SCALES
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 V 1:25

DATE: 2020-01-28
 DRAWING No.: **20-0063-XS1-2**

SHEET 08 OF 10
 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

SHEET SET PLAN P:\2020\20-0063-XS1-3\003 - ARCHIBALD ROAD TO HIGH STREET - BLACKBURN CRES. 1:250
 FILE P:\2020\20-0063-XS1-3\003 - ARCHIBALD ROAD TO HIGH STREET - BLACKBURN CRES. 1:250\DWG\20-0063-XS1-3-003.dwg
 LAYOUT: 20-0063-XS1-3



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BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
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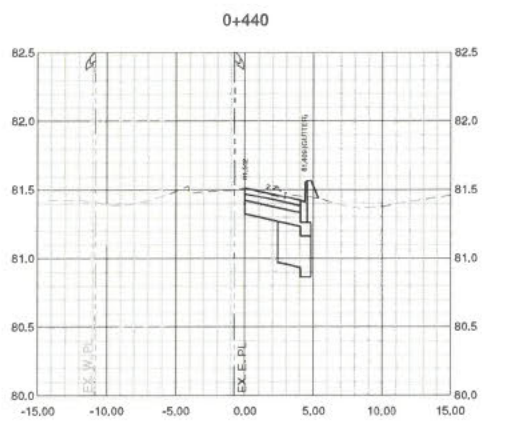
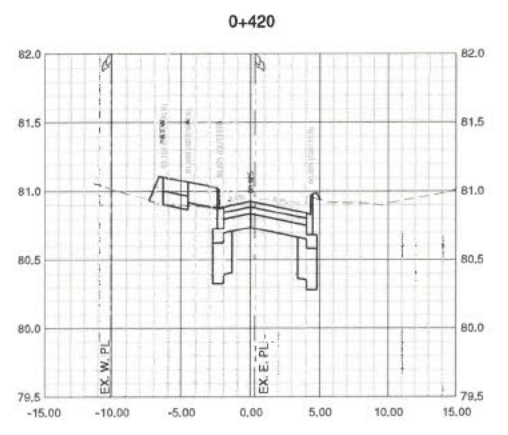
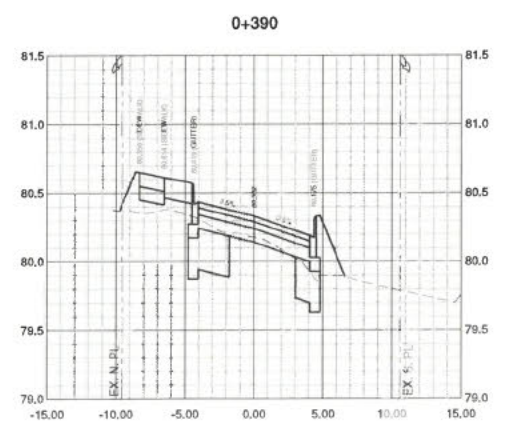
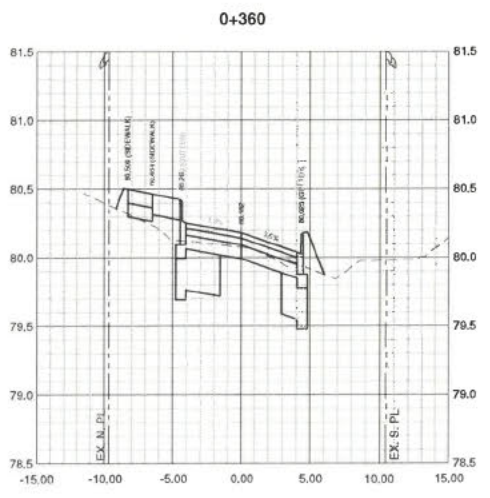
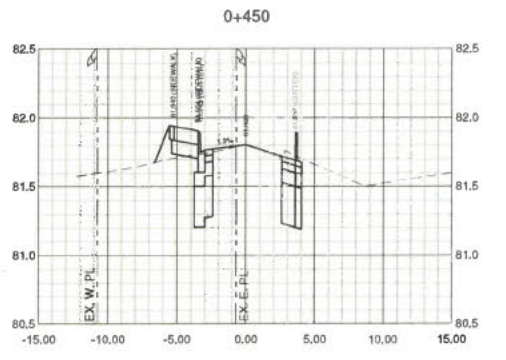
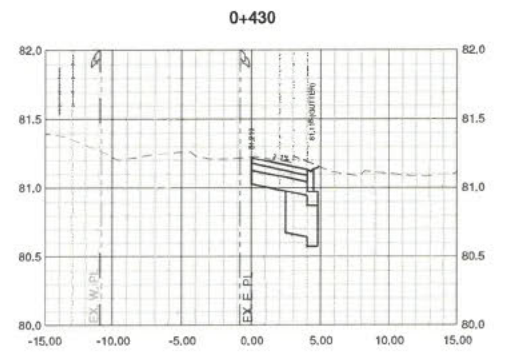
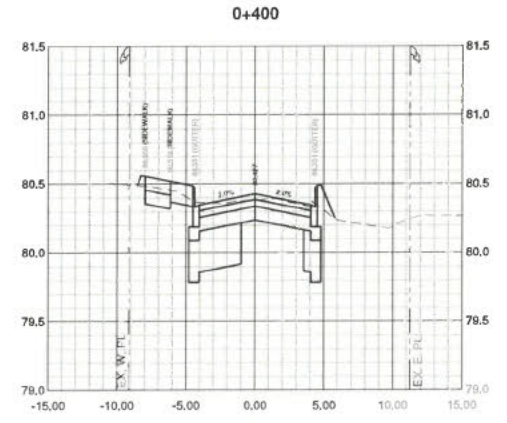
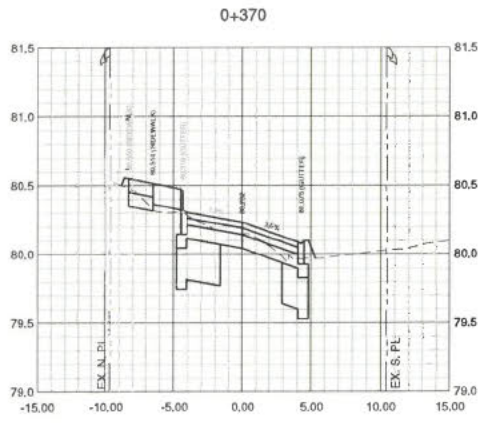
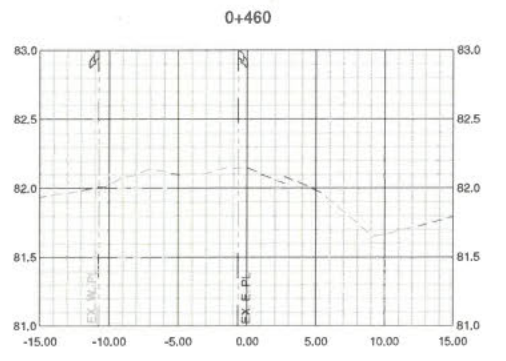
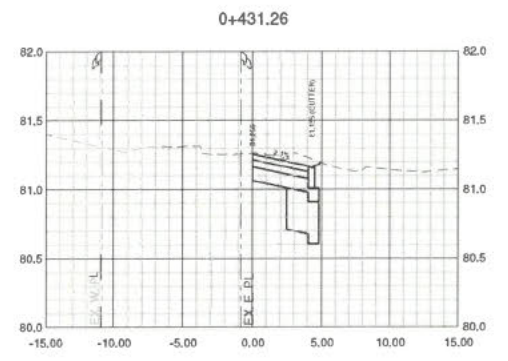
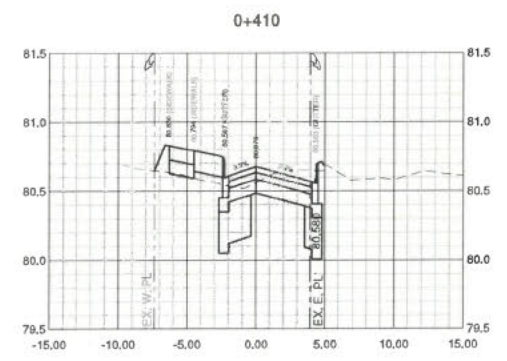
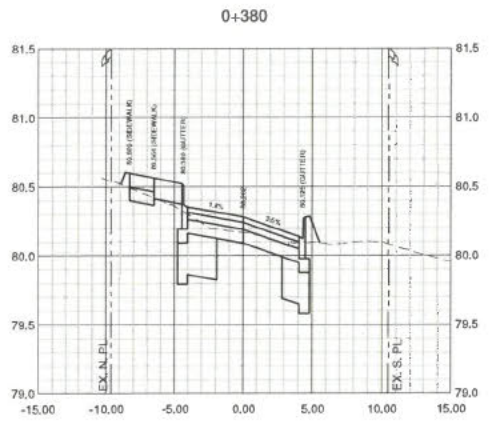
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DATE 2020-01-28
 DRAWING No.
20-0063-XS1-3

SHEET 09 OF 10
 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

SHEET SET PART PLAN ARCHIBALD ROAD - OR PLAN/SECTION/SECTION - BLACKBURN CREST
 PLAN/SECTION/SECTION - ARCHIBALD ROAD - OR PLAN/SECTION/SECTION - BLACKBURN CREST
 PLAN/SECTION/SECTION - ARCHIBALD ROAD - OR PLAN/SECTION/SECTION - BLACKBURN CREST



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1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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 TEL 604 574 3336
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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
 H 1:250 10m
 V 1:25 1m

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-4

SHEET 10 OF 10 REV. 1
 DESTROY ALL PRINTS BEARING PREVIOUS No.

SHEET SET PATH: P:\2020\20-063\100 - CAP PRELIM\06T SET\20-063 - BLACKBURN.DWG

CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

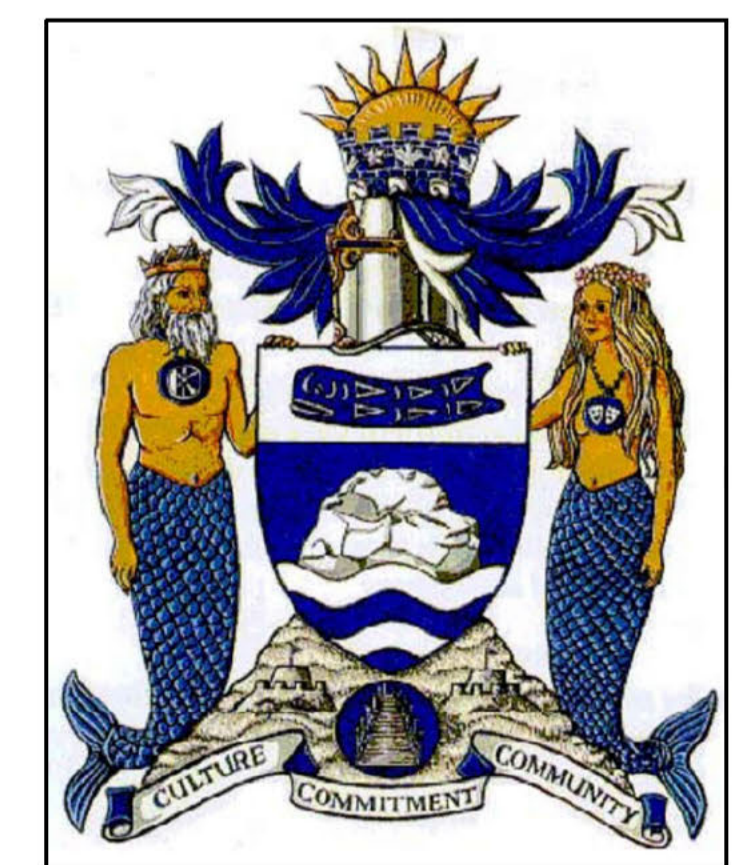
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAVIT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES AND DETAILSSS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D1-1	01
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	03
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	04
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	05
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	06
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	07
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	08
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	10



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GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, AND FORTIS BC PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
- ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
- WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
- OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
- ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
- SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
- THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SANITARY AND STORM SEWER NOTES:

- THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCHLAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
- THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.

- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED
- ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
- ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
- ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
- ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO S2 AND SIZED AS PER MMCD, UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY SEWER SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
- ALL SANITARY SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
- ALL WYES SHALL BE MANUFACTURED.
- THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
- THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PACP" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

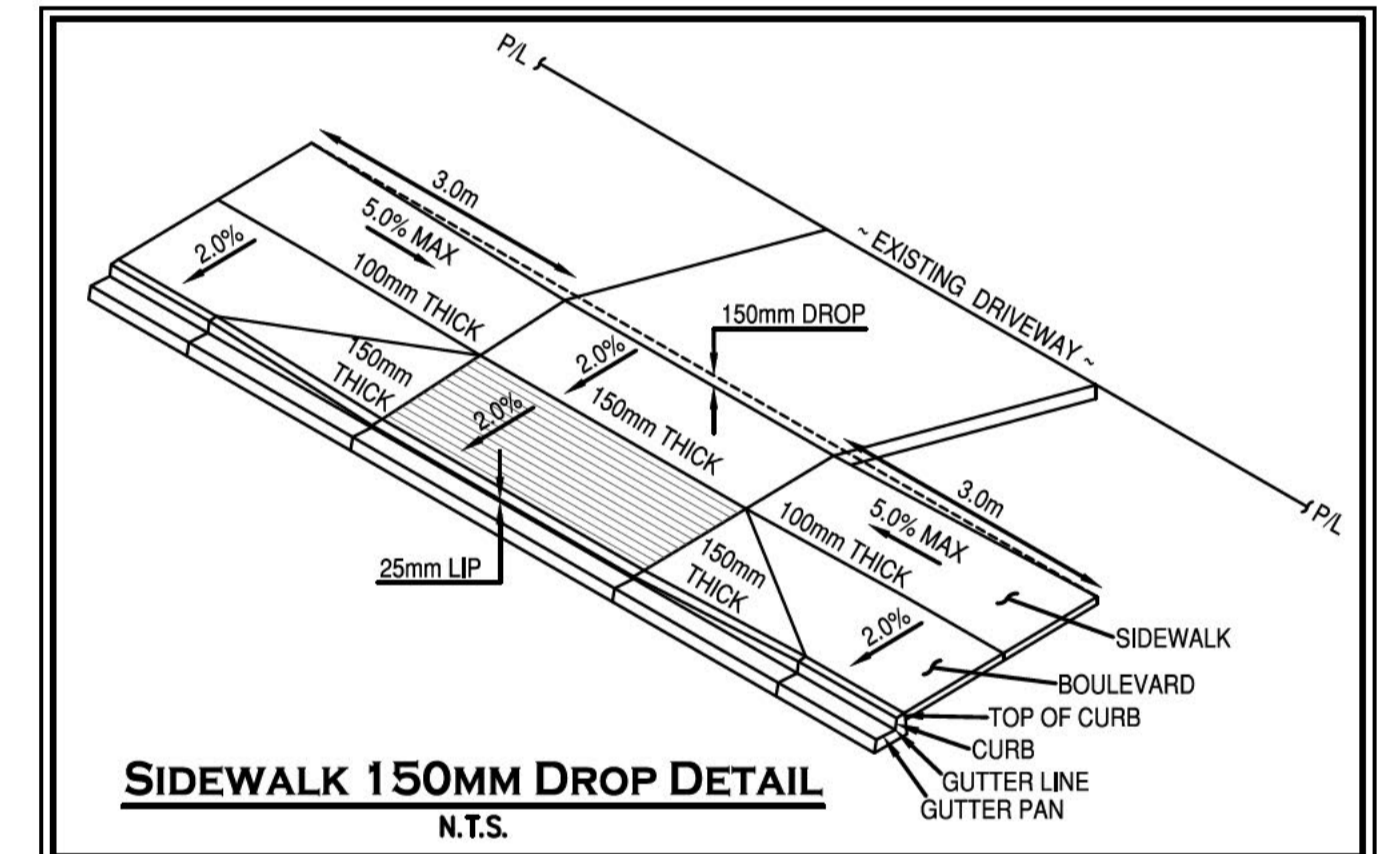
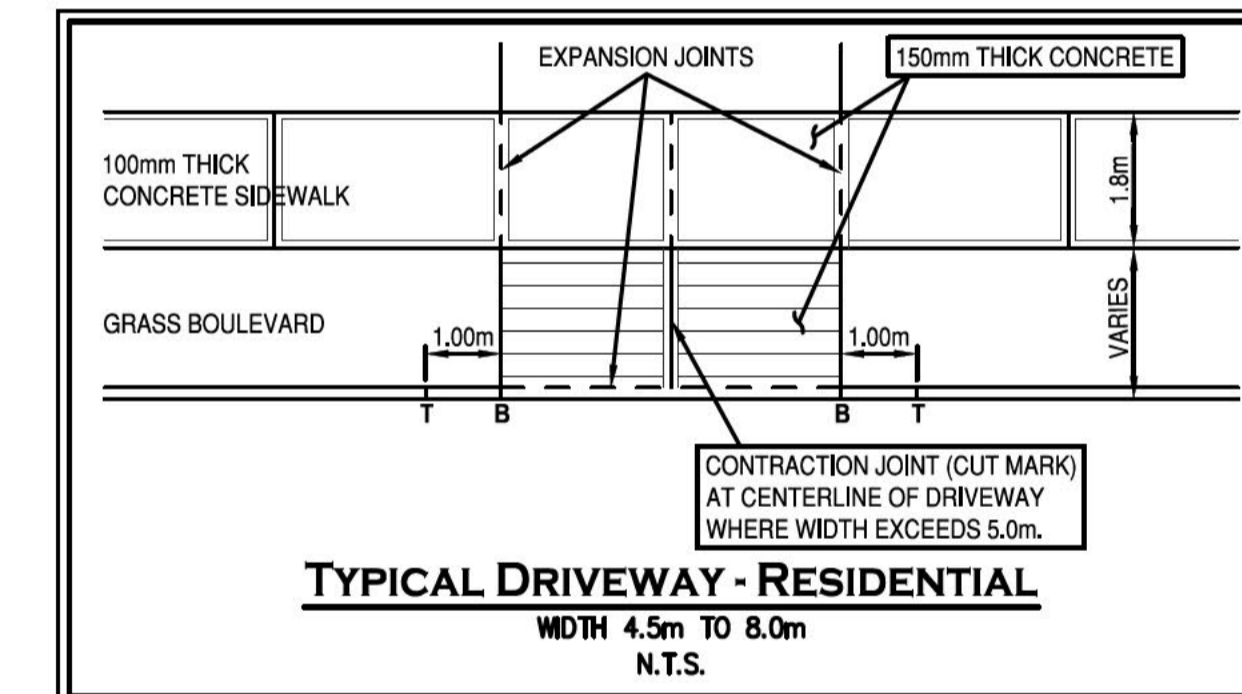
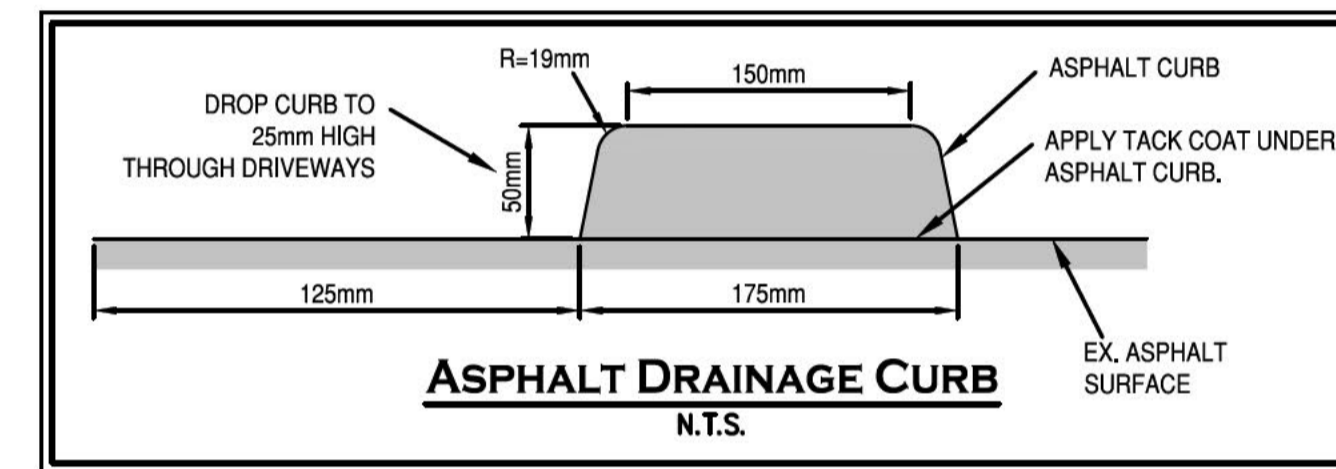
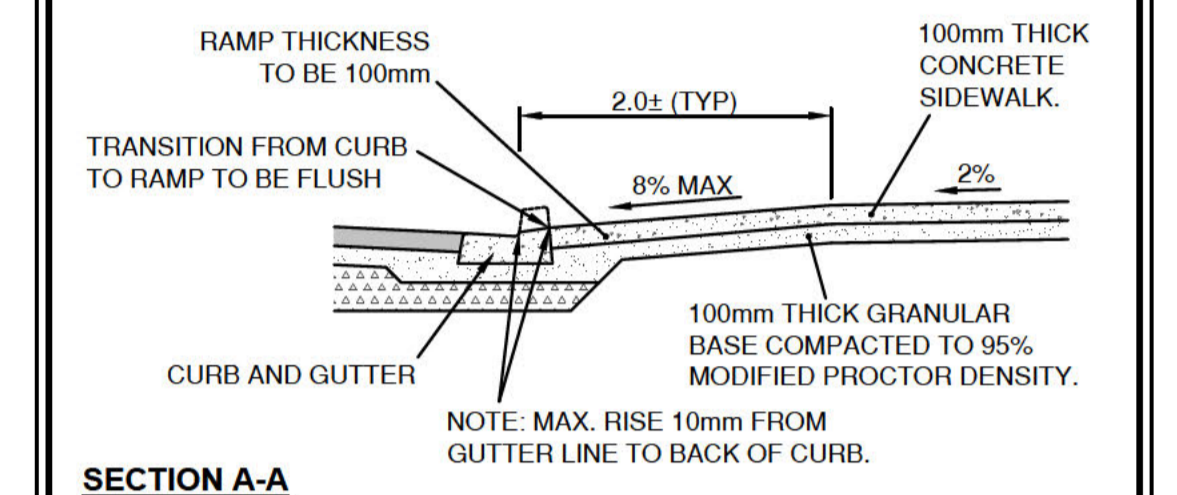
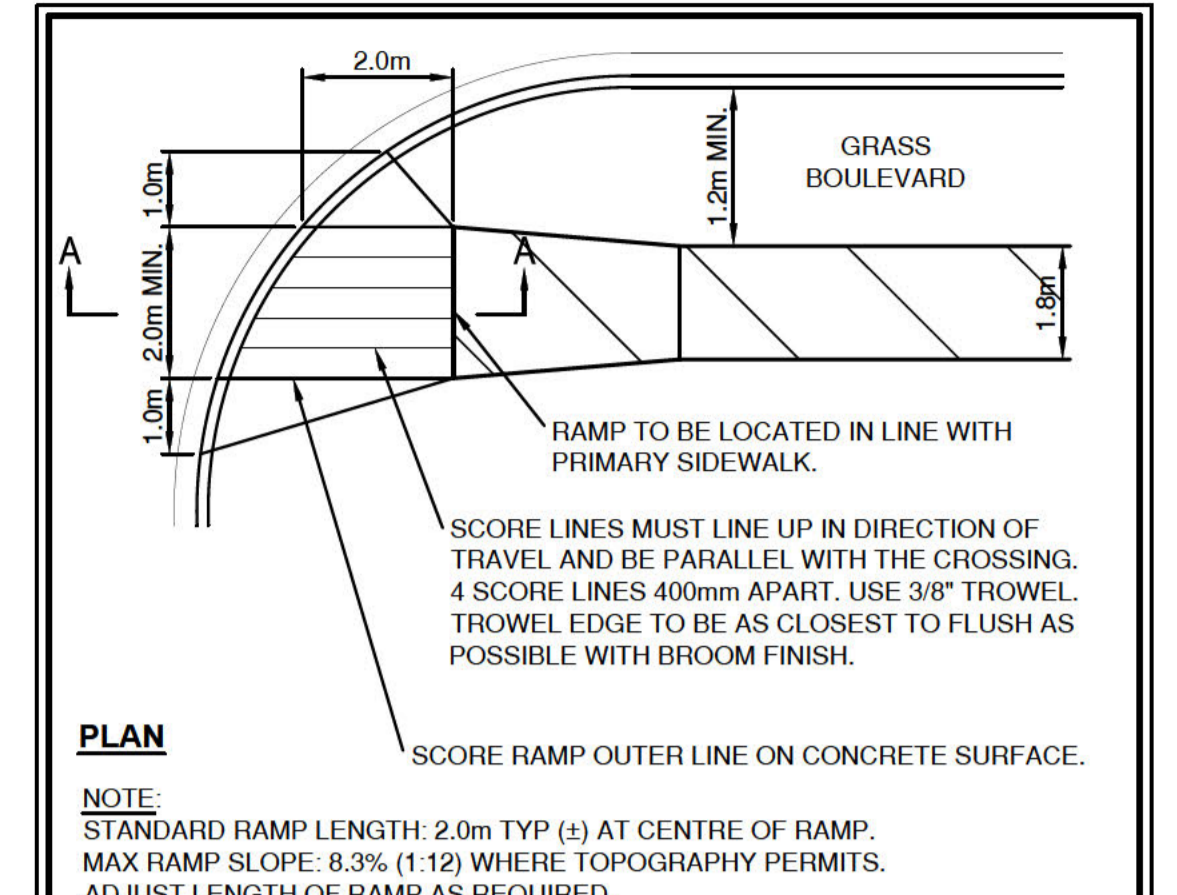
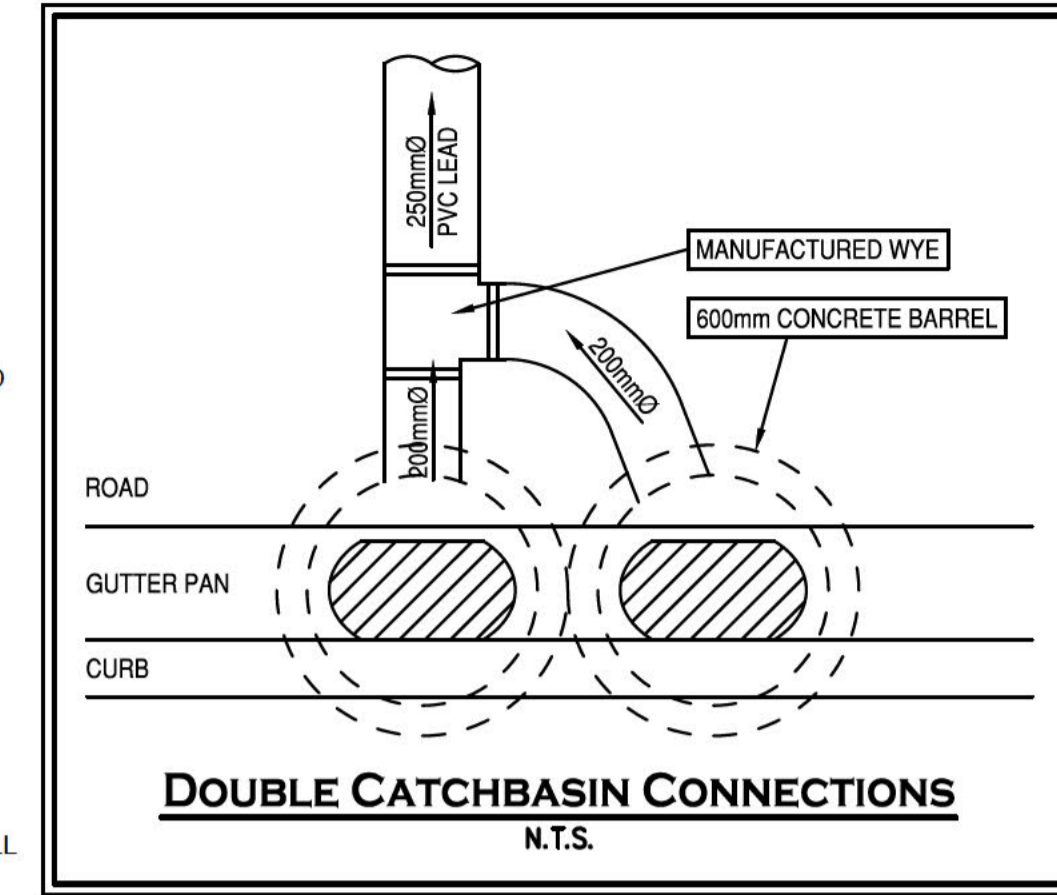
- THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATERS BODIES.
- STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
- THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.

RESTORATION NOTES:

- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
- THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
- ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
- THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
- ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

- THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP IN RED COLOUR AND UPDATED ON A DAILY BASIS TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
- THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER "RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS"; AND
 - A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER "RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS".



SUMMARY OF MATERIAL TESTING FREQUENCY

MATERIAL	MMCD REFERENCE	TESTING FREQUENCY
CONCRETE CURB AND SIDEWALK	03 30 53 - 1.6.2	1 PER 10m ³ MIN. 1 PER DAY PER SITE LOCATION
SIEVE ANALYSIS AND PROCTORS	31 05 17 - 1.5.2	1 PRIOR TO COMMENCING WORK 1 EVERY 1,000 TONNES
TRENCH (DENSITIES)	31 23 01 - 3.5.4.4	1 PER 50 LINEAL METRE PER 600mm THICK LIFT
ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION (DENSITIES)	31 24 13 - 3.5.7	1 PER 250m ² PER 300mm THICK LIFT
GRANULAR SUBBASE (DENSITIES)	32 11 16.1 - 3.3.6	1 PER 150m ² OF MATERIAL PLACED PER 150mm THICK LIFT
GRANULAR BASE (DENSITIES)	32 11 23 - 3.3.6	1 PER 150m ² OF MATERIAL PLACED PER 150mm THICK LIFT PROOF ROLL PRIOR TO PAVING AND PLACEMENT OF CONCRETE CURB AND SIDEWALKS
HOT-MIX ASPHALT (CONVENTIONAL)	32 12 16 - 1.6.3-9	1 TEST PER EACH ASPHALT TYPE MIN. 1 PER DAY PER SITE LOCATION
TOPSOIL	32 91 21 - 1.5.2	1 PRIOR TO COMMENCING WORK

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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET NOTES AND DETAILSSS

SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	NOT TO SCALE

DATE	2020-05-08
DRAWING No.	20-0063-D1-1
SHEET	01 OF 10
REV.	1
DESTROY ALL PRINTS BEARING PREVIOUS No.	

SHEET 01 OF 10 - 2020-05-12 1:09:49 PM FILE: P:\2020\0063\001 - CAD\REVISED\DWG\20-0063-D1-1.dwg

BENCHMARK:
 MONUMENT 88H3843 LOCATED AT INTERSECTION
 OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

GENERAL NOTES - PAVEMENT MARKING

1. ALL PAVEMENT MARKING LINES AND SYMBOLS TO BE THERMOPLASTIC.
2. PAVEMENT MARKING AND SIGNS TO BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).

KEY NOTES



- (A) INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
- (B) INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
- (C) INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

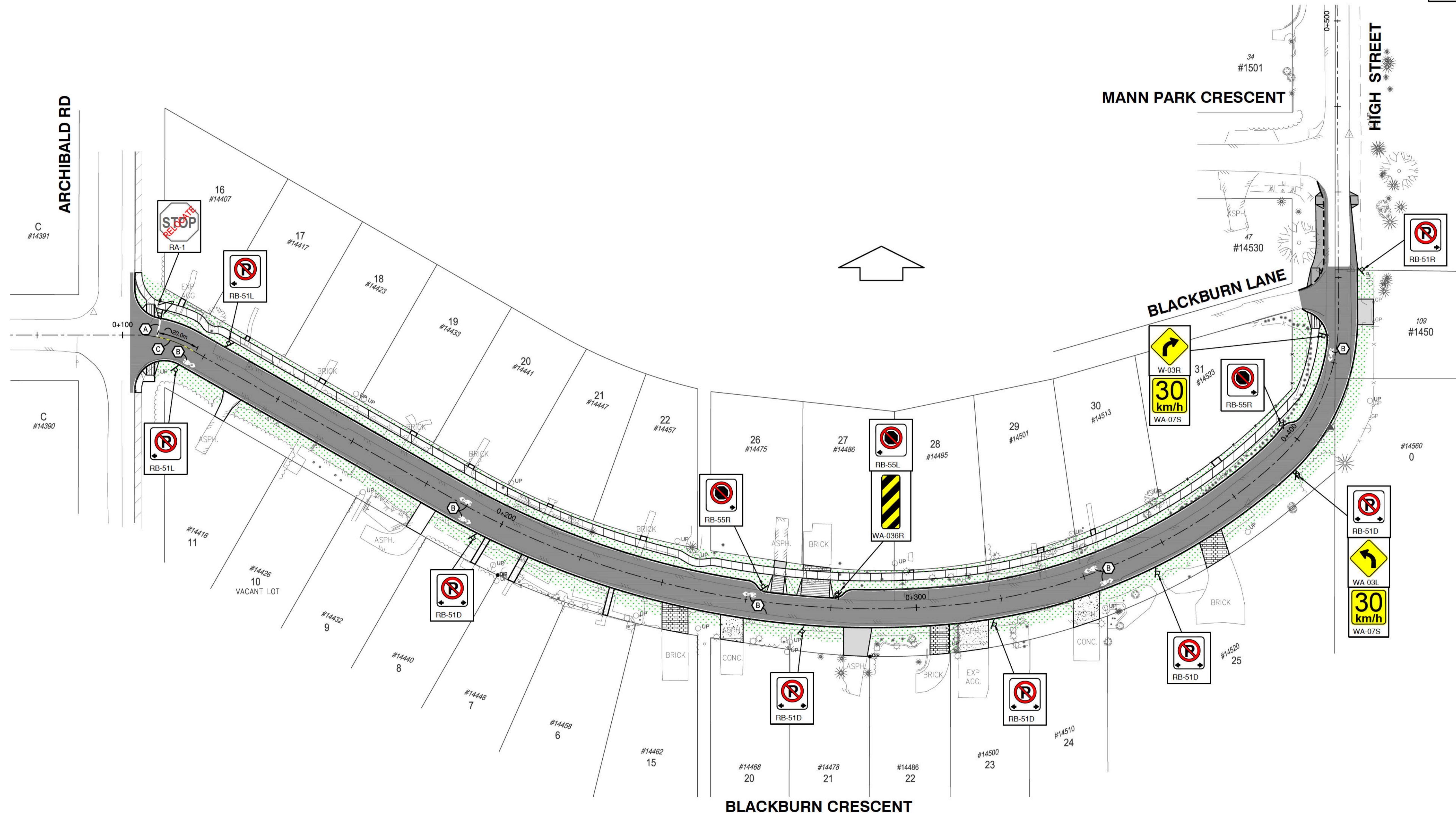
FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

LEGEND

-  EXISTING SIGN - SHOWN IN GRAY ONLY
EXAMPLE
-  PROPOSED SIGN - SHOWN IN COLOUR
EXAMPLE



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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
PAVEMENT MARKING AND SIGNAGE

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY NM
 CHECKED BY RA

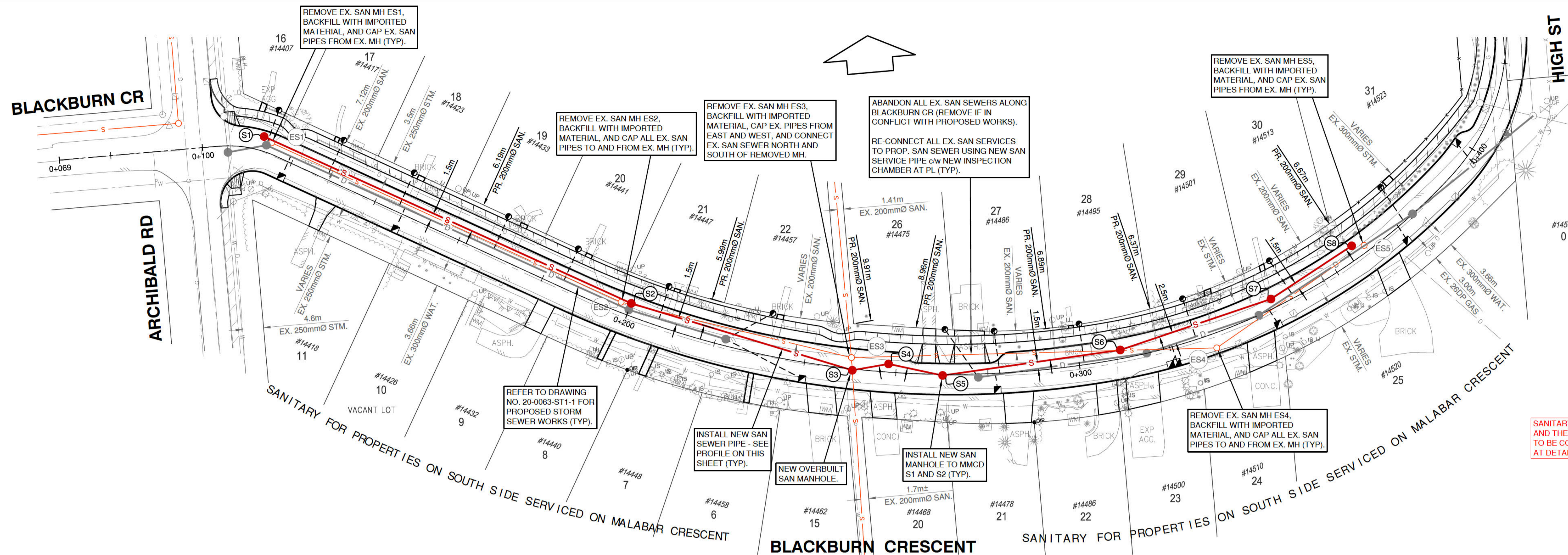
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DATE 2020-05-08
 DRAWING No.
20-0063-PM1-1

SHEET 04 OF 10
 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

SHEET SET PART 1: 20-0063-R1-01 TO 20-0063-R1-05 - BLACKBURN CREST

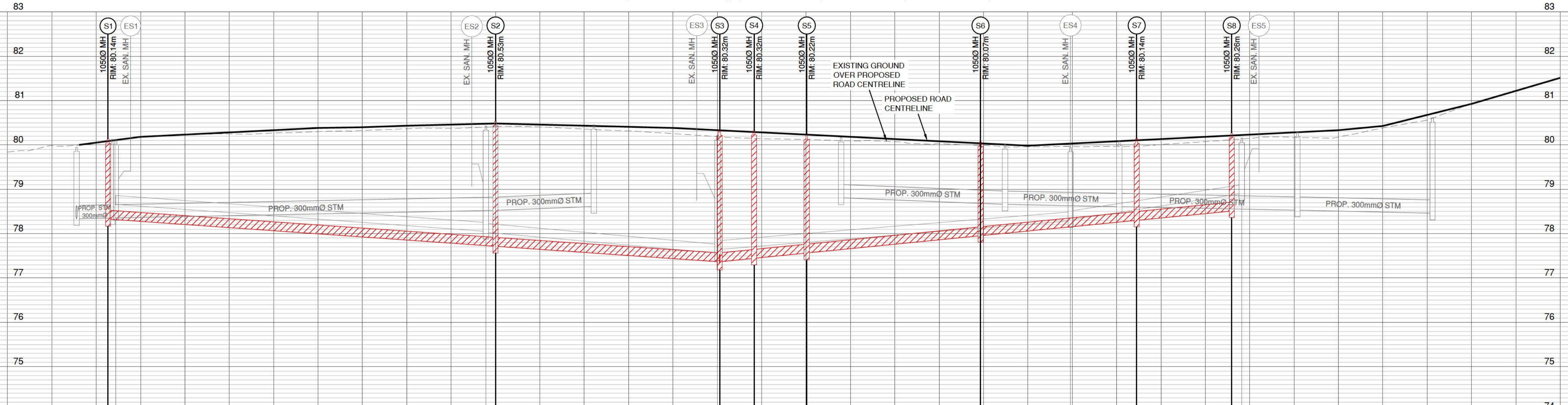


- BENCHMARK:**
MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M
- GENERAL NOTES - SANITARY SEWER**
- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mmØ SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
 - CONTRACTOR SHALL FIND ANY EXISTING SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM c/w NEW INSPECTION CHAMBER AT PL TO MMCD S9.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS c/w VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - SANITARY SEWER UTILITY TRENCHES SHALL BE AS PER MMCD G4.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.

SANITARY SERVICE CONNECTIONS AND THEIR RESPECTIVE LOCATIONS TO BE COMPLETED AND CONFIRMED AT DETAILED DESIGN STAGE.

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE WORKS, REFER TO DRAWING NO. 20-0063-PM1-1.



STATION ALONG BASELINE	PROP. INVERT ELEVATION	EX. INVERT ELEVATION
0+100		
0+112.65 0+114.43	78.327 SE	78.660 SE
0+120		
0+140		
0+160	PROP. 87.60m-200mmØ PVC SDR35 SAN. @ 0.70%	EX. 200Ø SAN.
0+180		
0+197.81 0+200.00	77.714 NW 77.714 E	78.050 NW 78.030 E
0+220		
0+240		
0+250.04 0+250.52	77.963 W 77.333 N 77.363 E	77.560 W 77.540 S 77.640 E 77.650 N
0+258.28 0+260		
0+270.15	77.563 W 77.563 E	77.563 W 77.563 E
0+280		
0+300		
0+309.32 0+320	77.953 W 77.953 E	77.953 W 77.953 E
0+340 0+344.52	78.299 W 78.299 NE	78.290 W 78.310 NE
0+360		
0+365.94 0+365.22	78.509 SW	78.905 SW
0+380		
0+400		
0+420		

No.	DATE	REVISION	BY
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CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
H 1:500 20m
V 1:50 2m

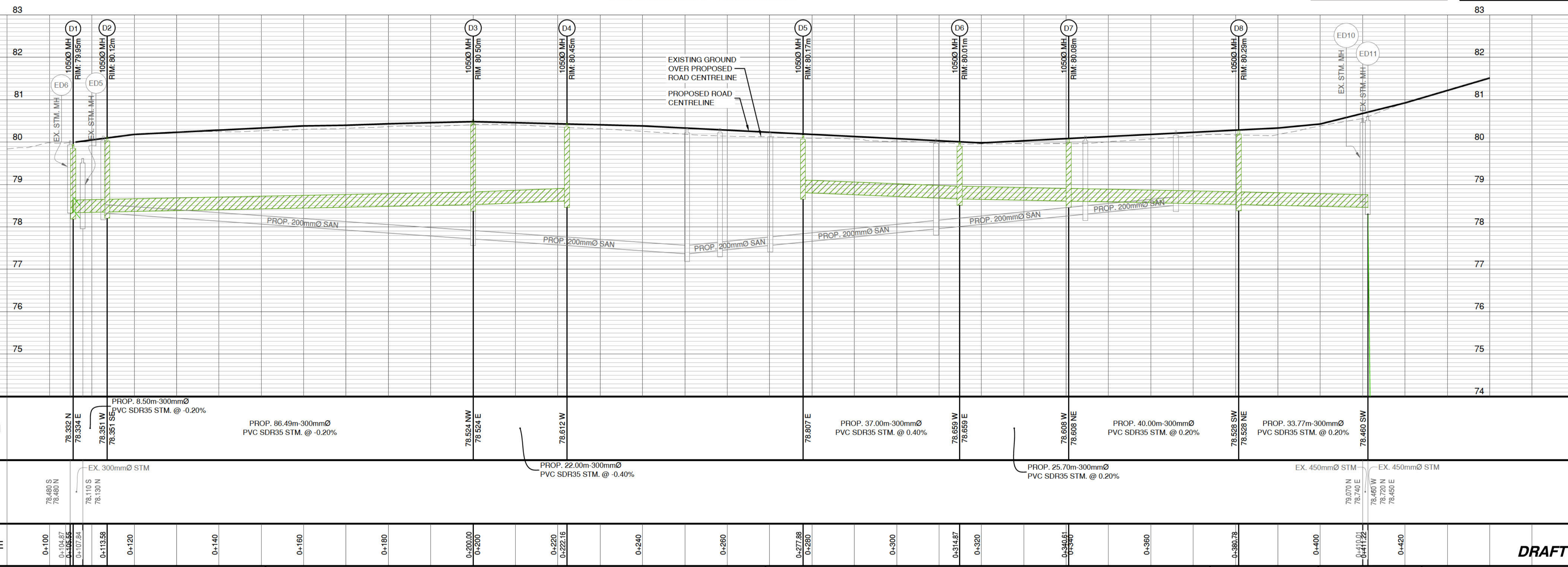
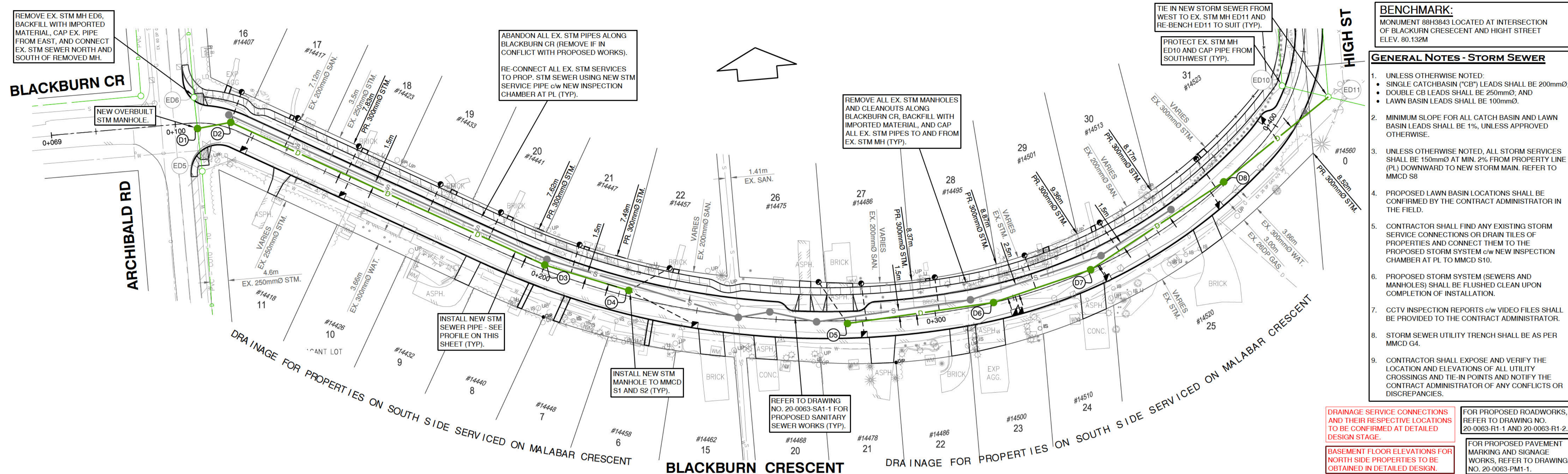
DATE 2020-01-28
DRAWING No.
20-0063-SA1-1

SHEET 05 OF 10
REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

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SHEET SET PART 1: 20-0063-ST1-01 TO 06 - SANITARY SEWER - ARCHIBALD RD - BLACKBURN CRES - BANNING DUST



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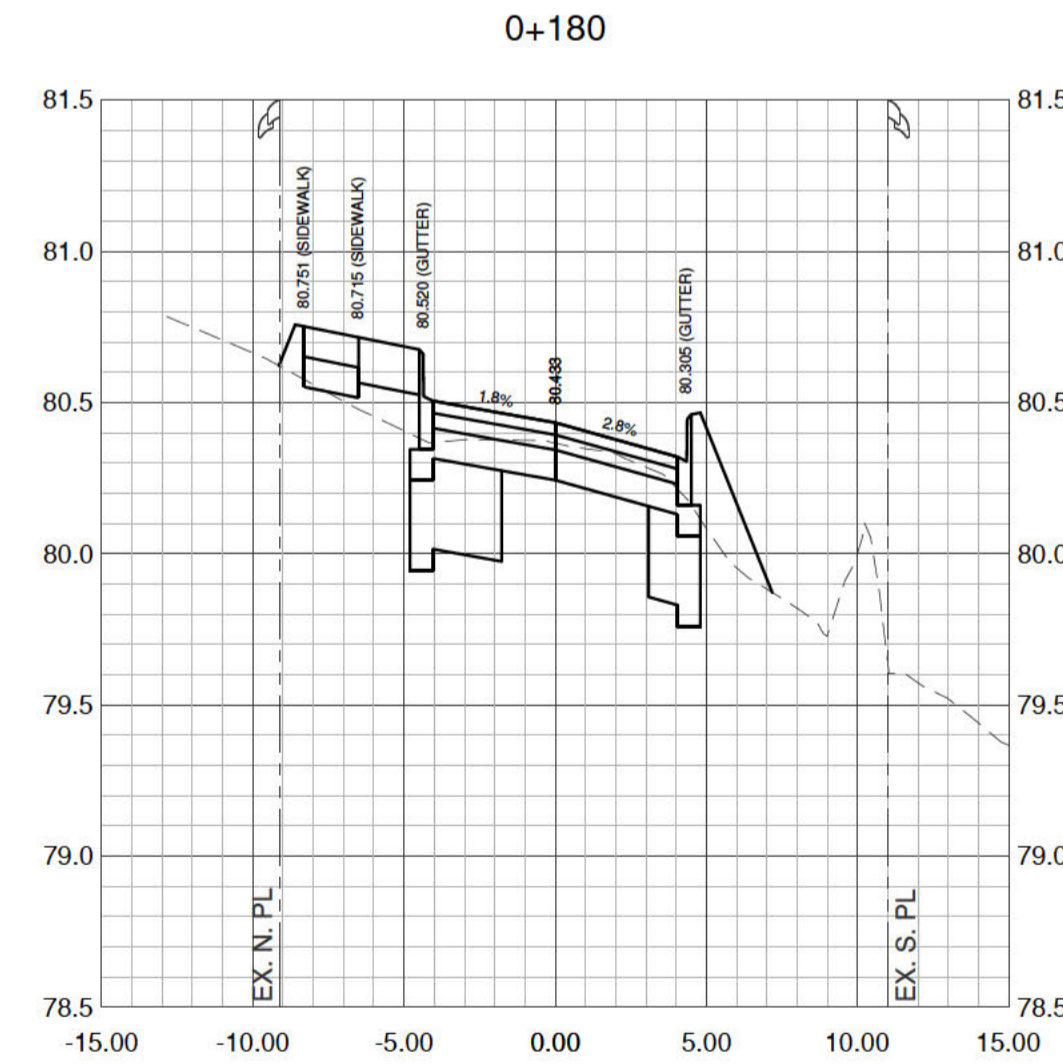
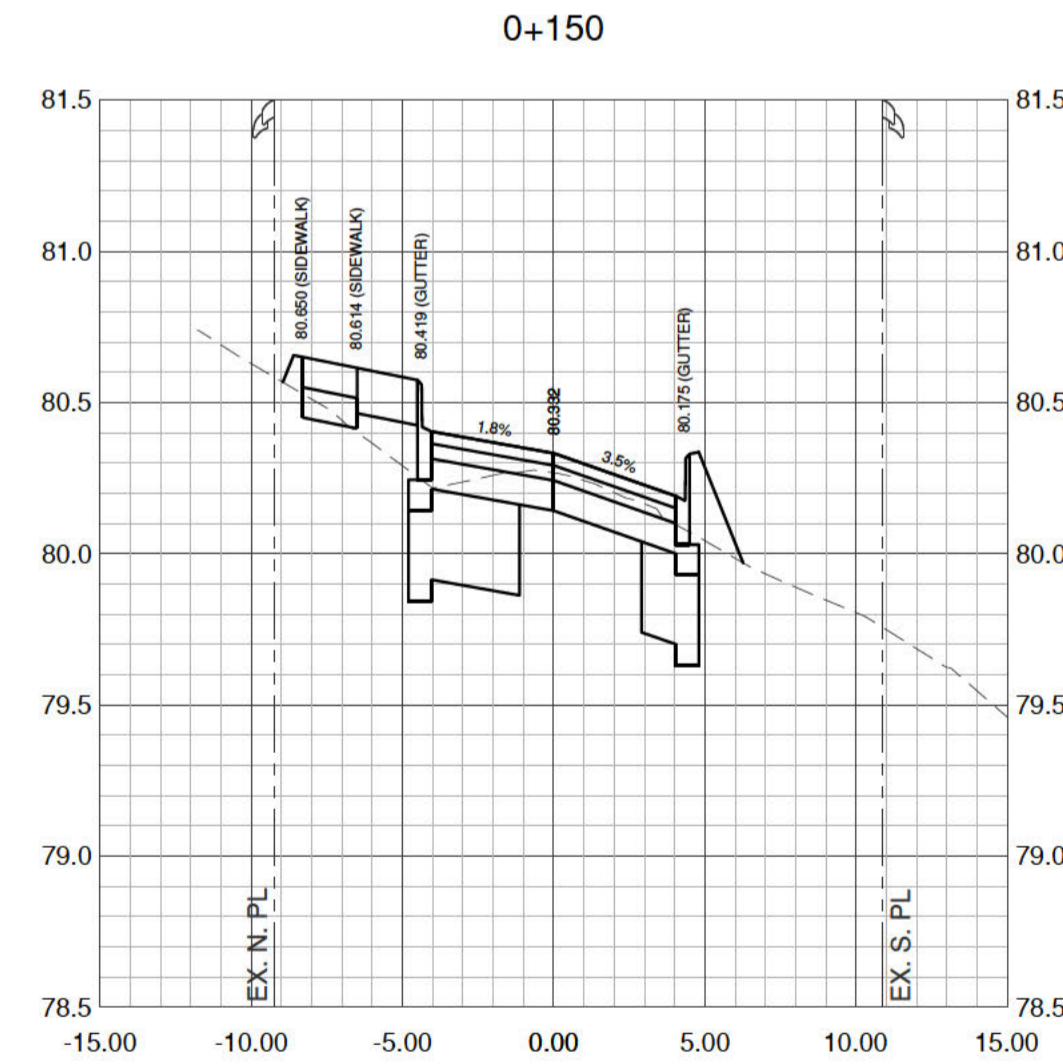
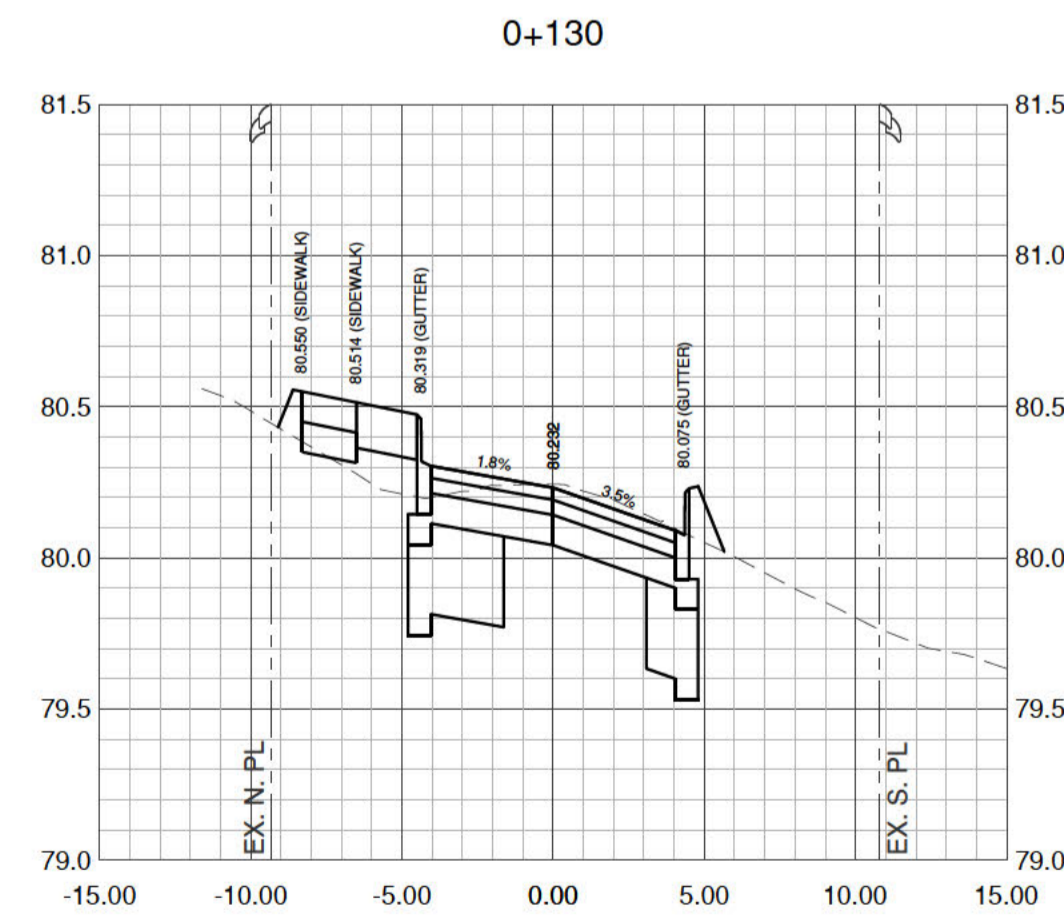
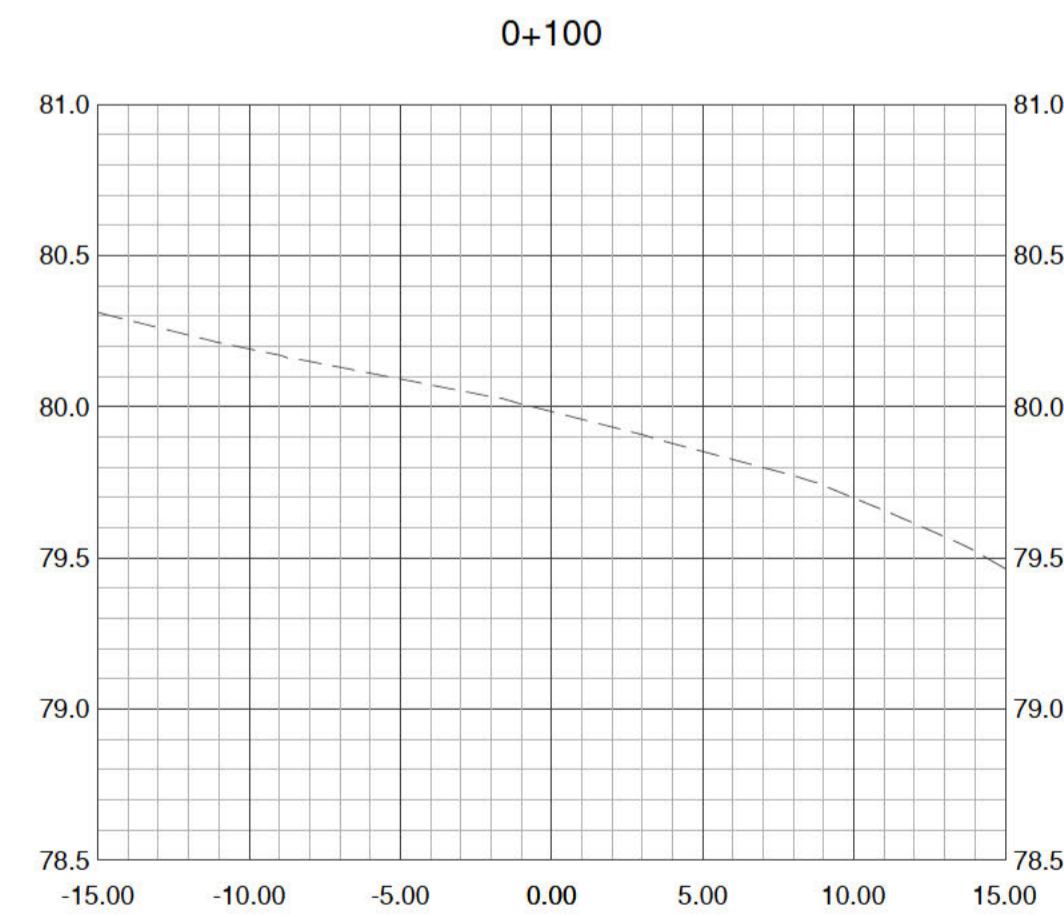
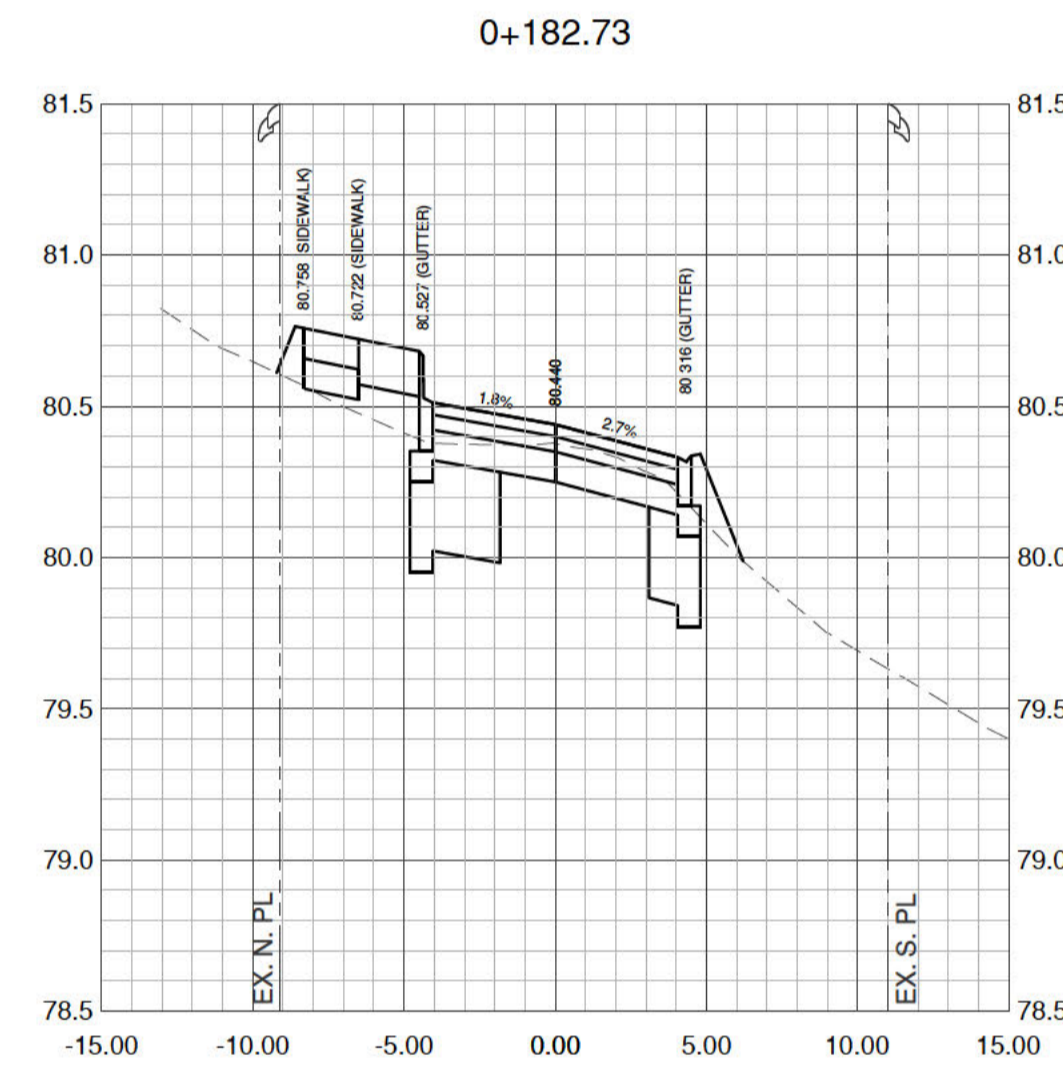
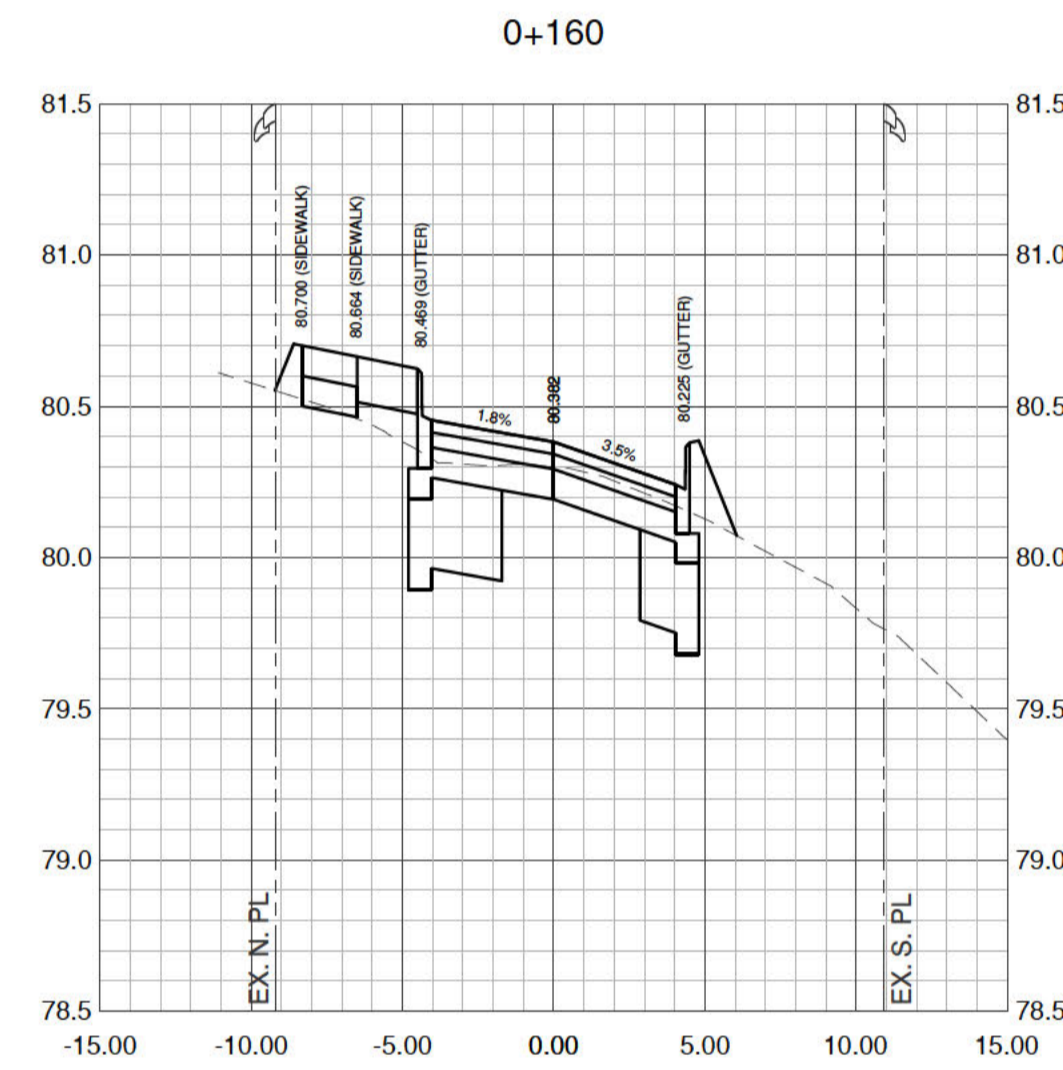
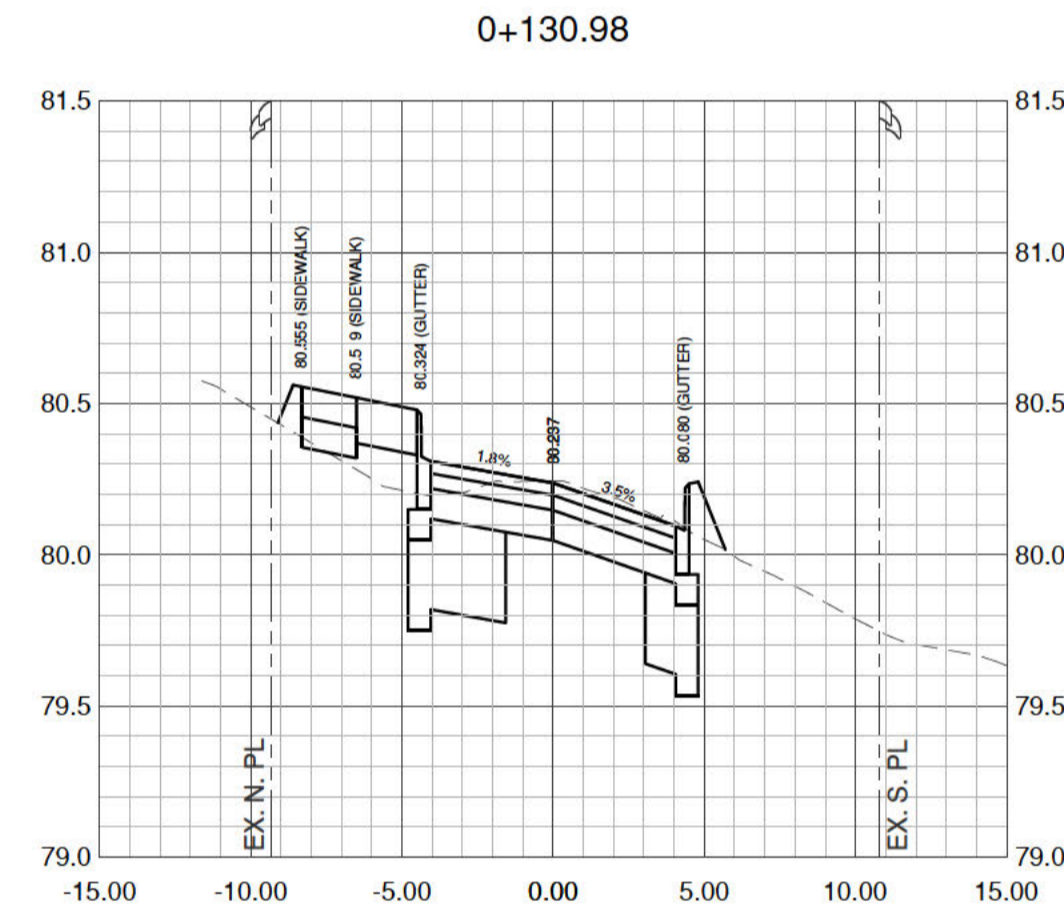
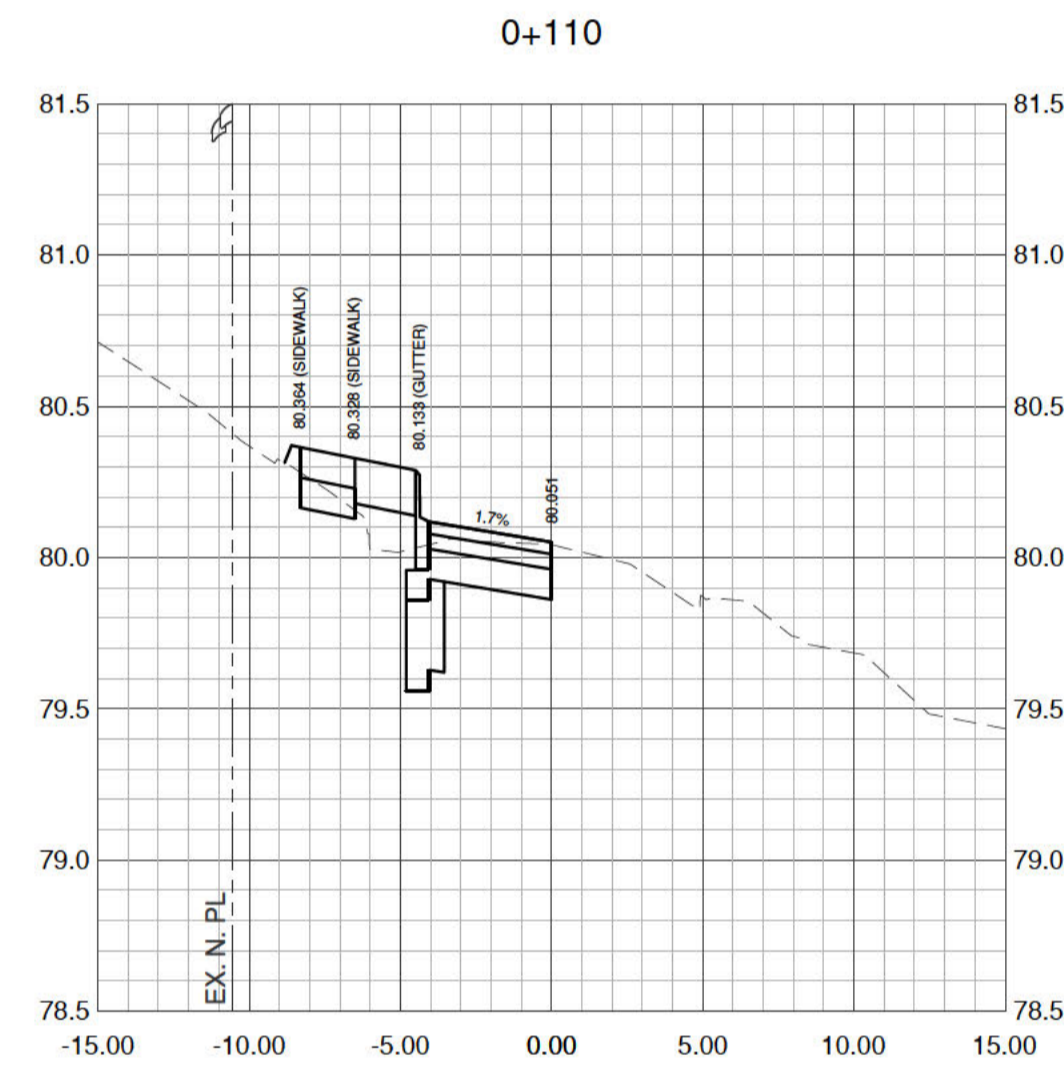
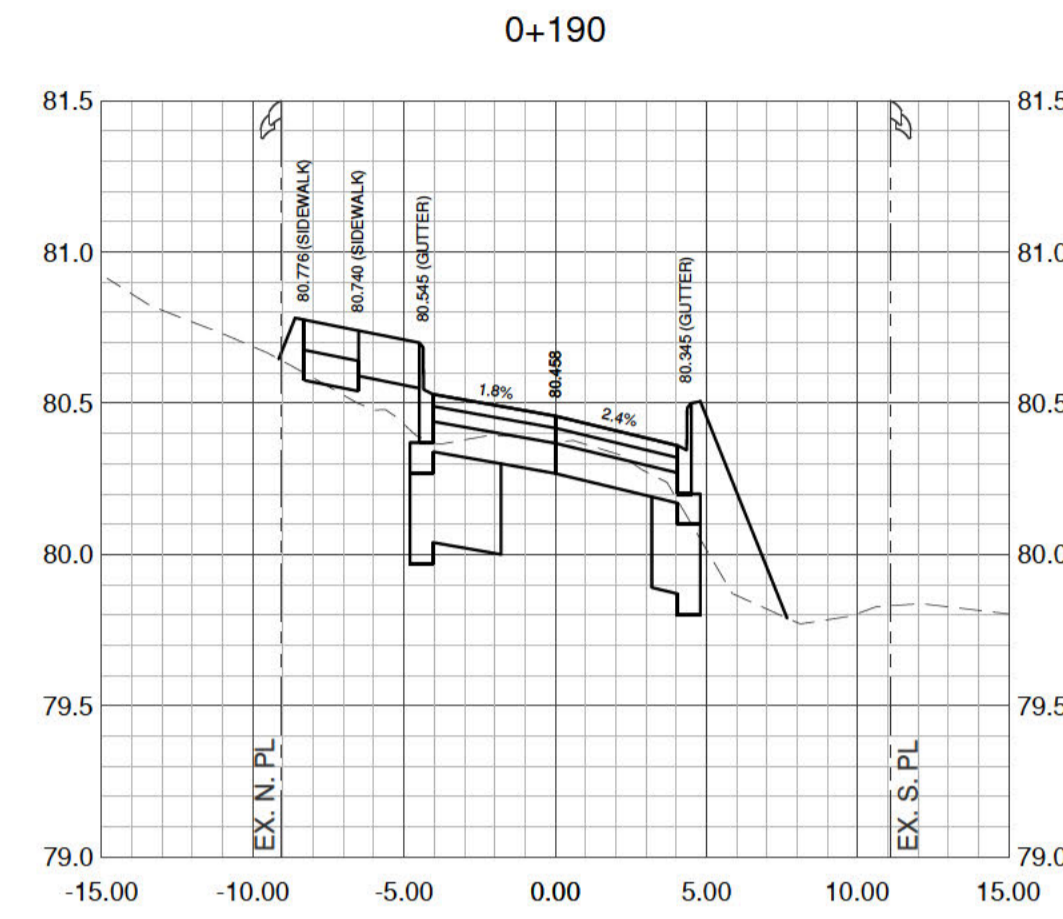
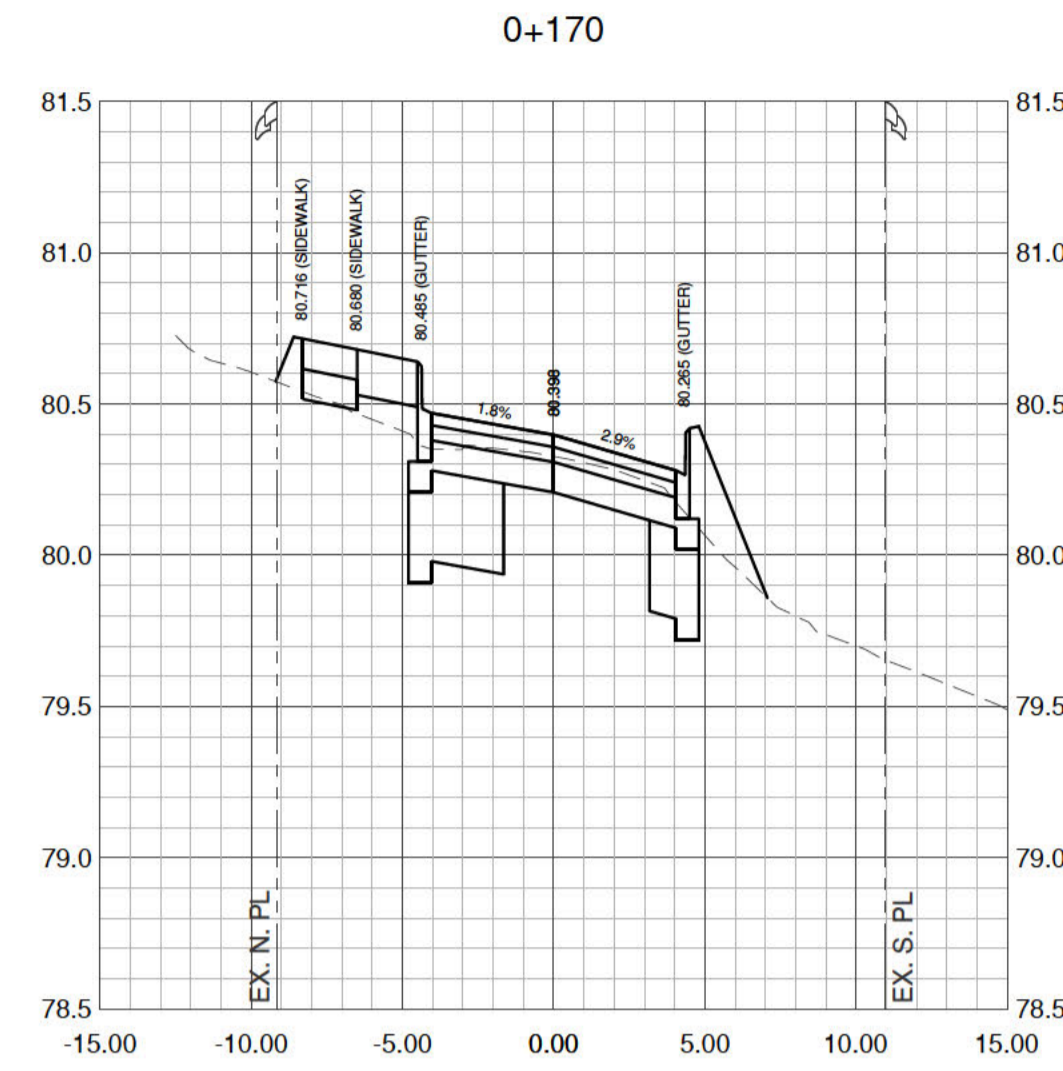
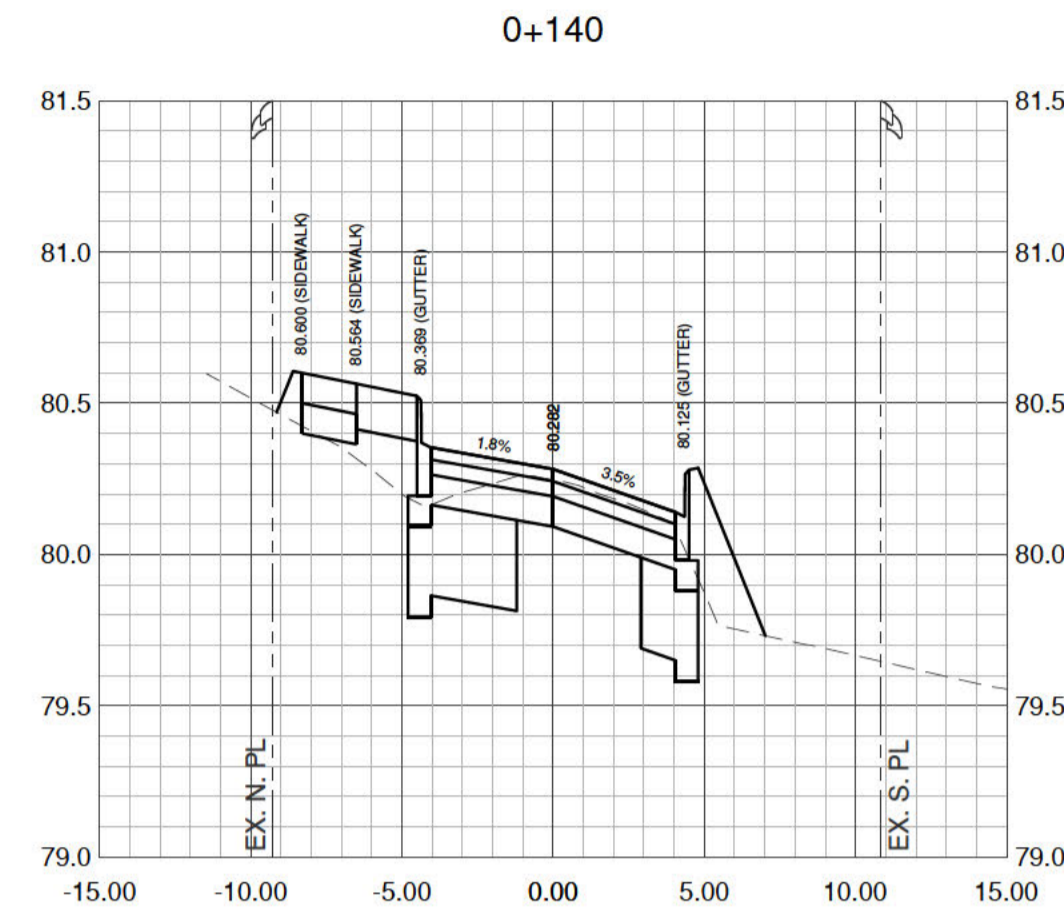
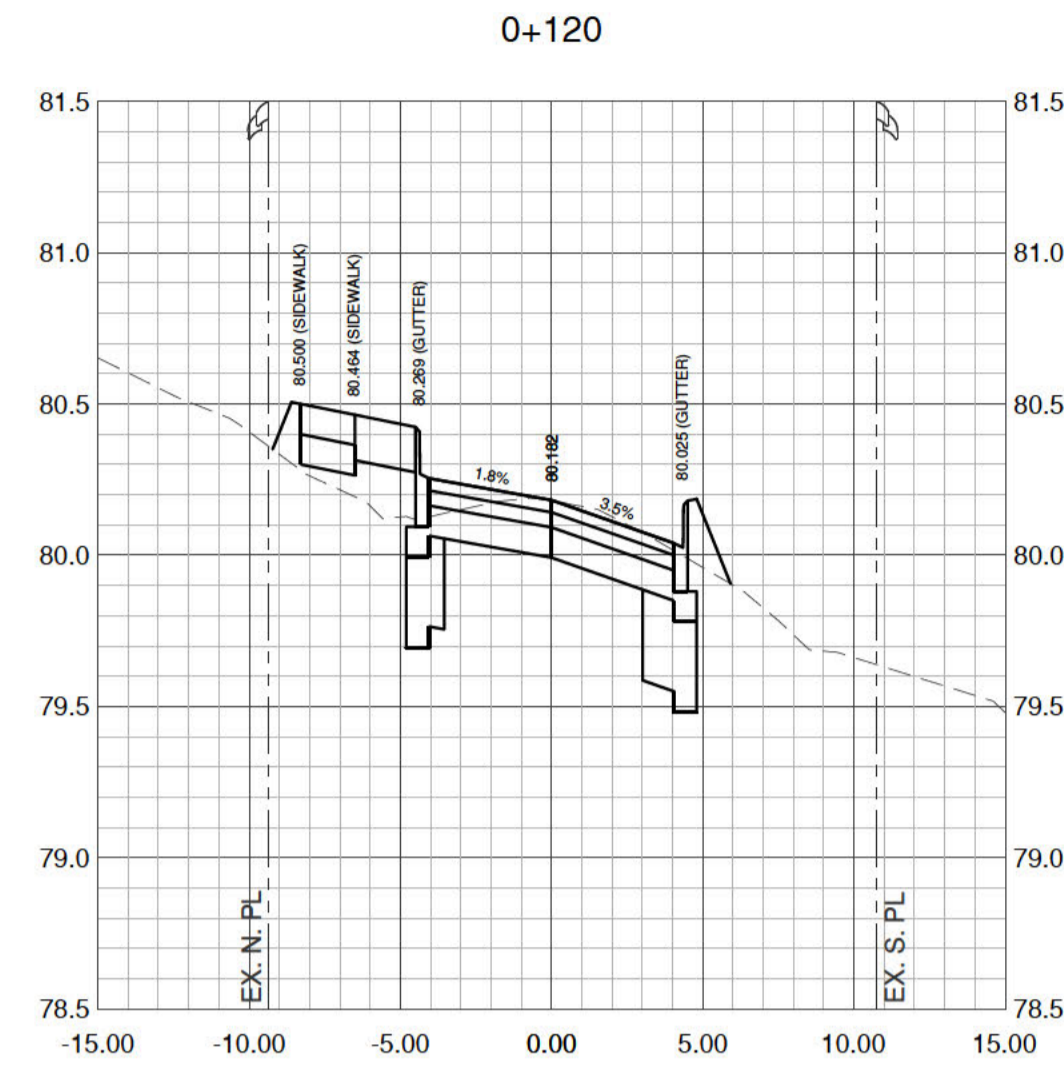
DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
STORM SEWER

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
H 1:500
V 1:50

DATE 2020-01-28
DRAWING No.
20-0063-ST1-1
SHEET 06 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

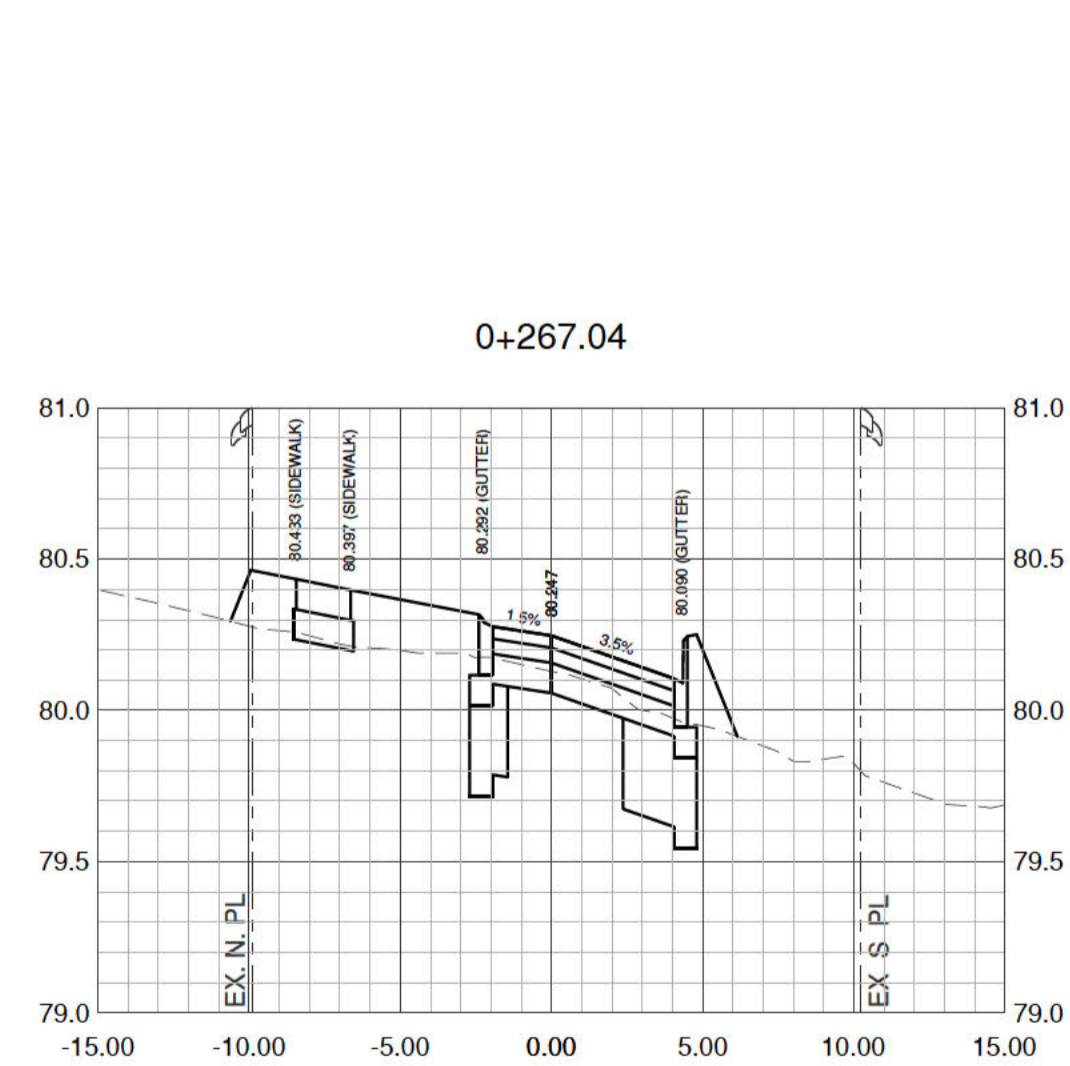
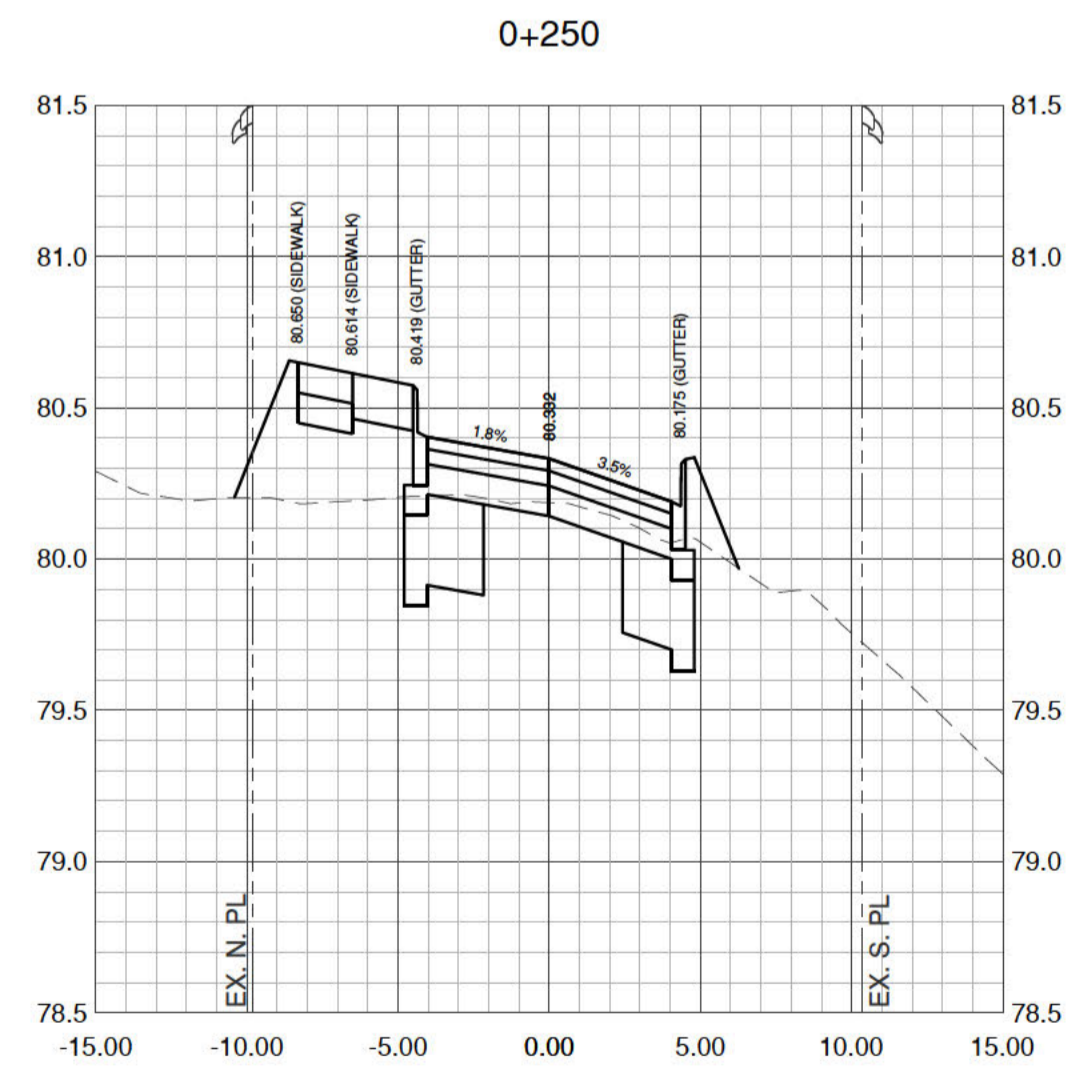
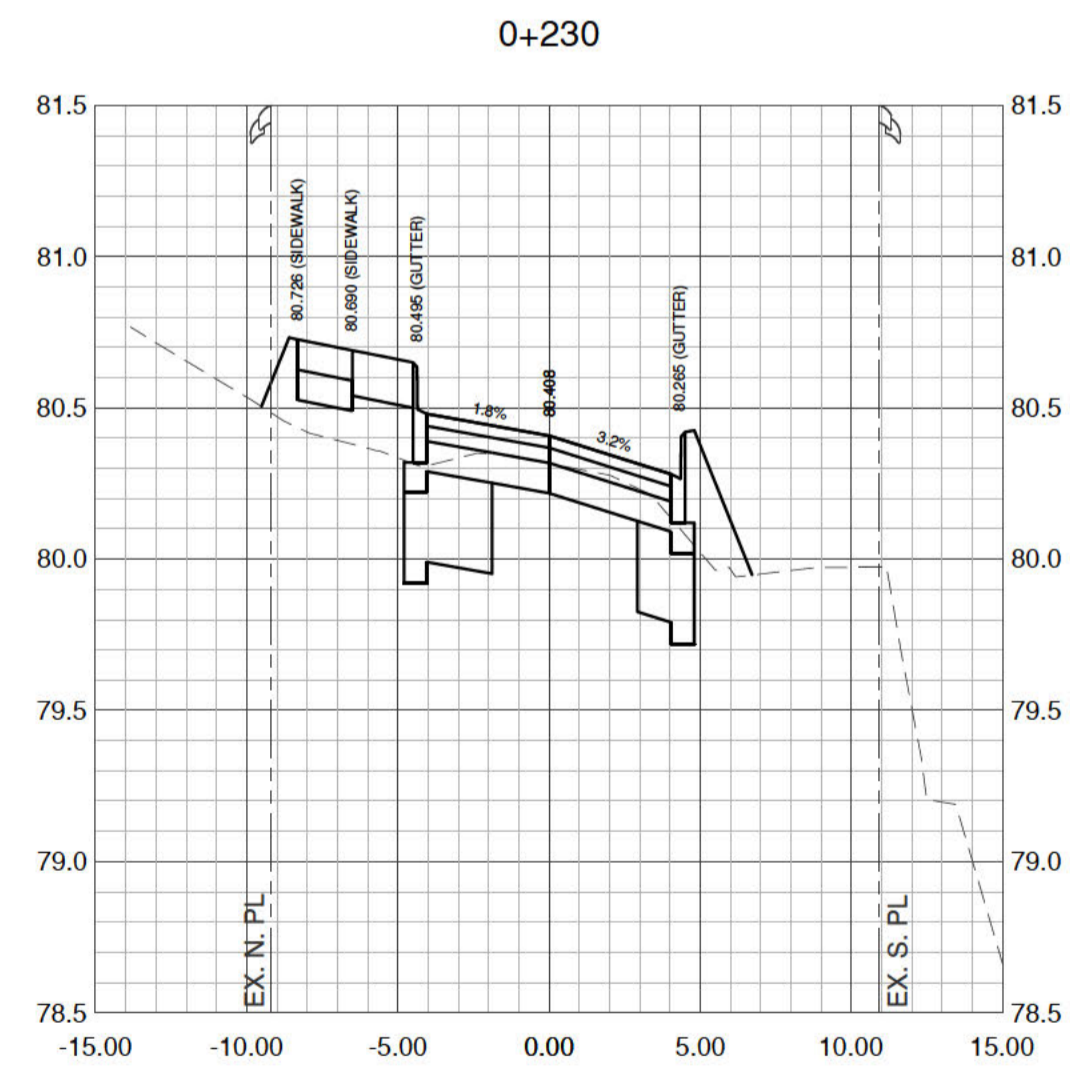
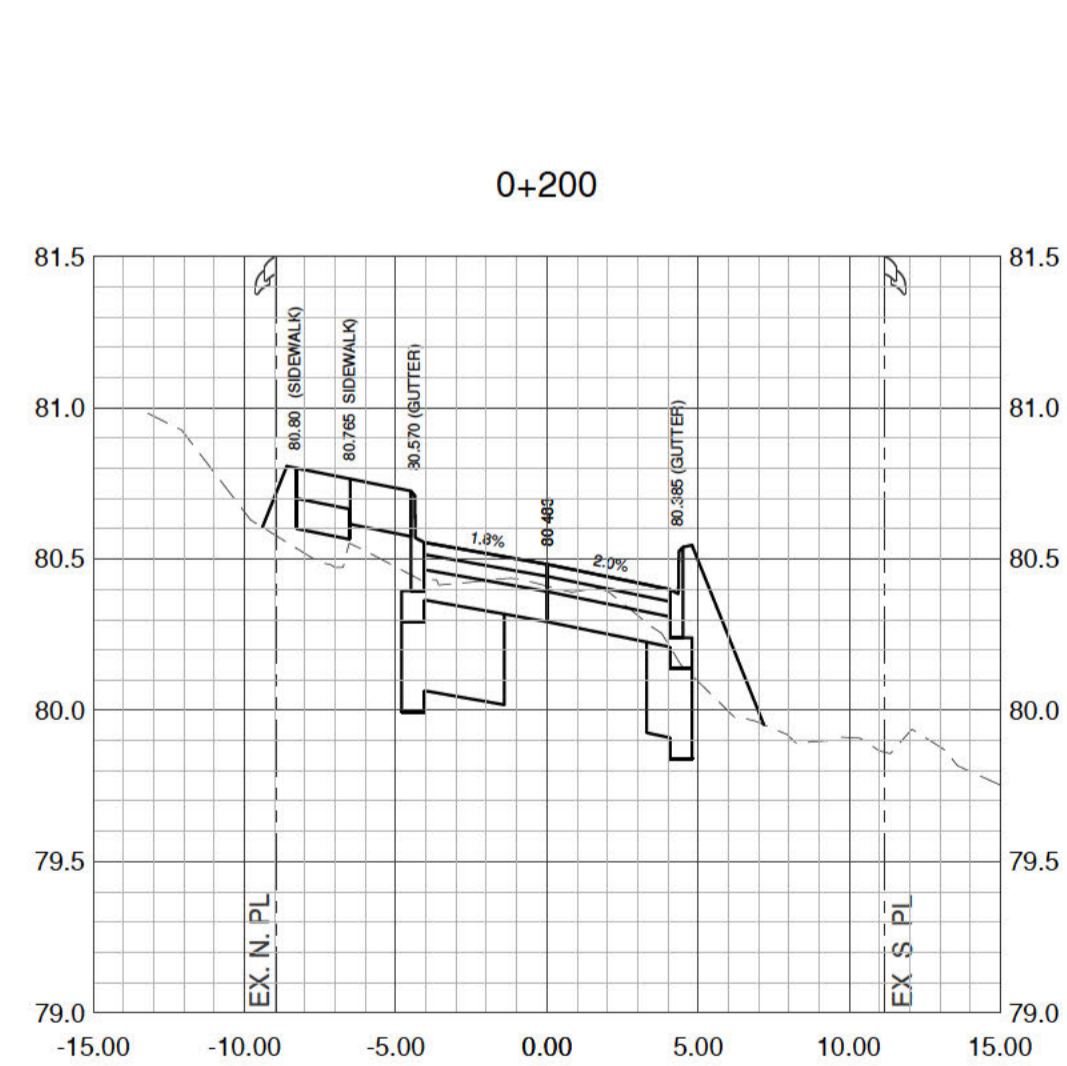
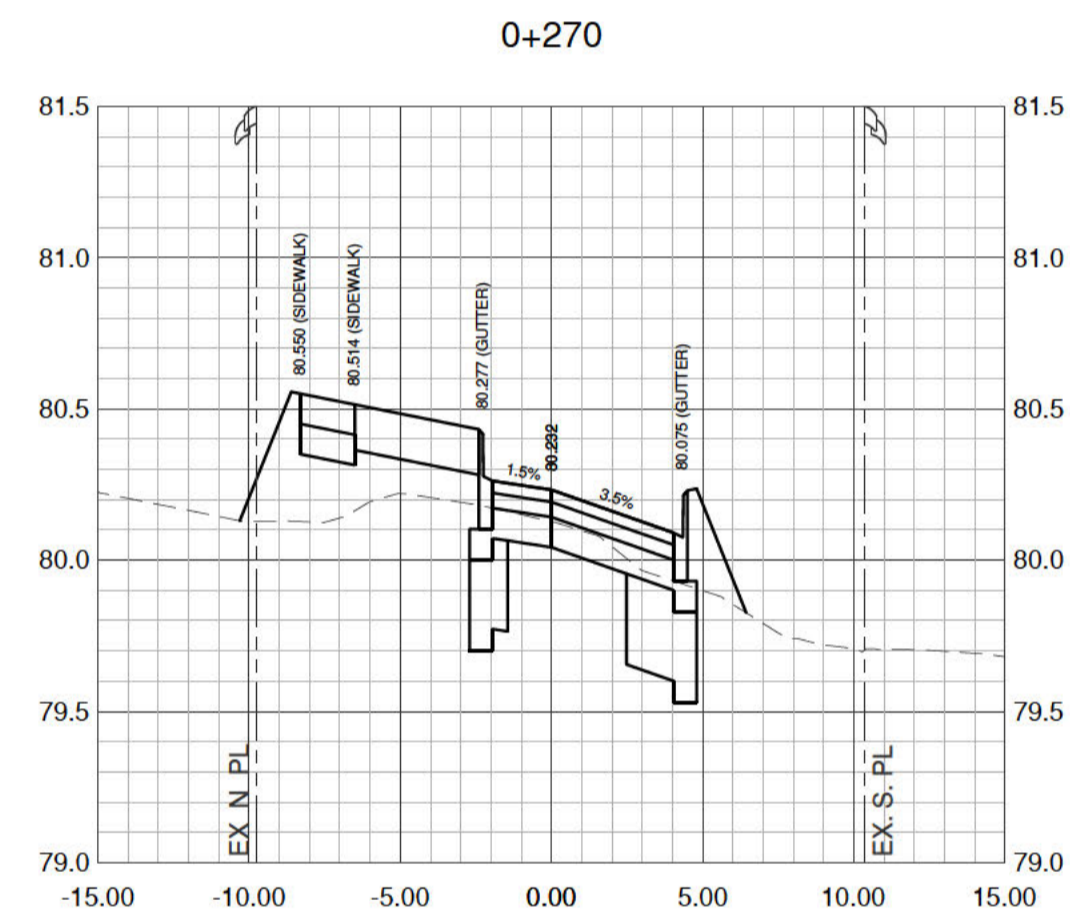
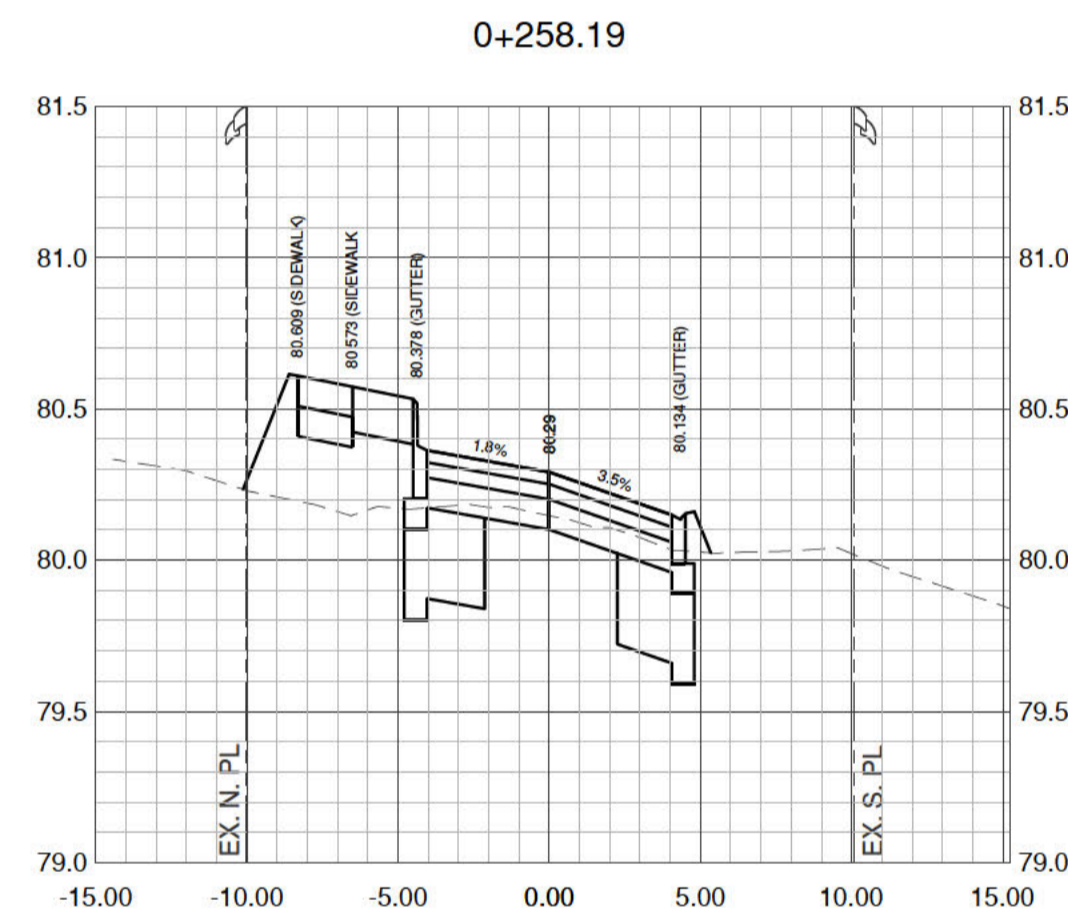
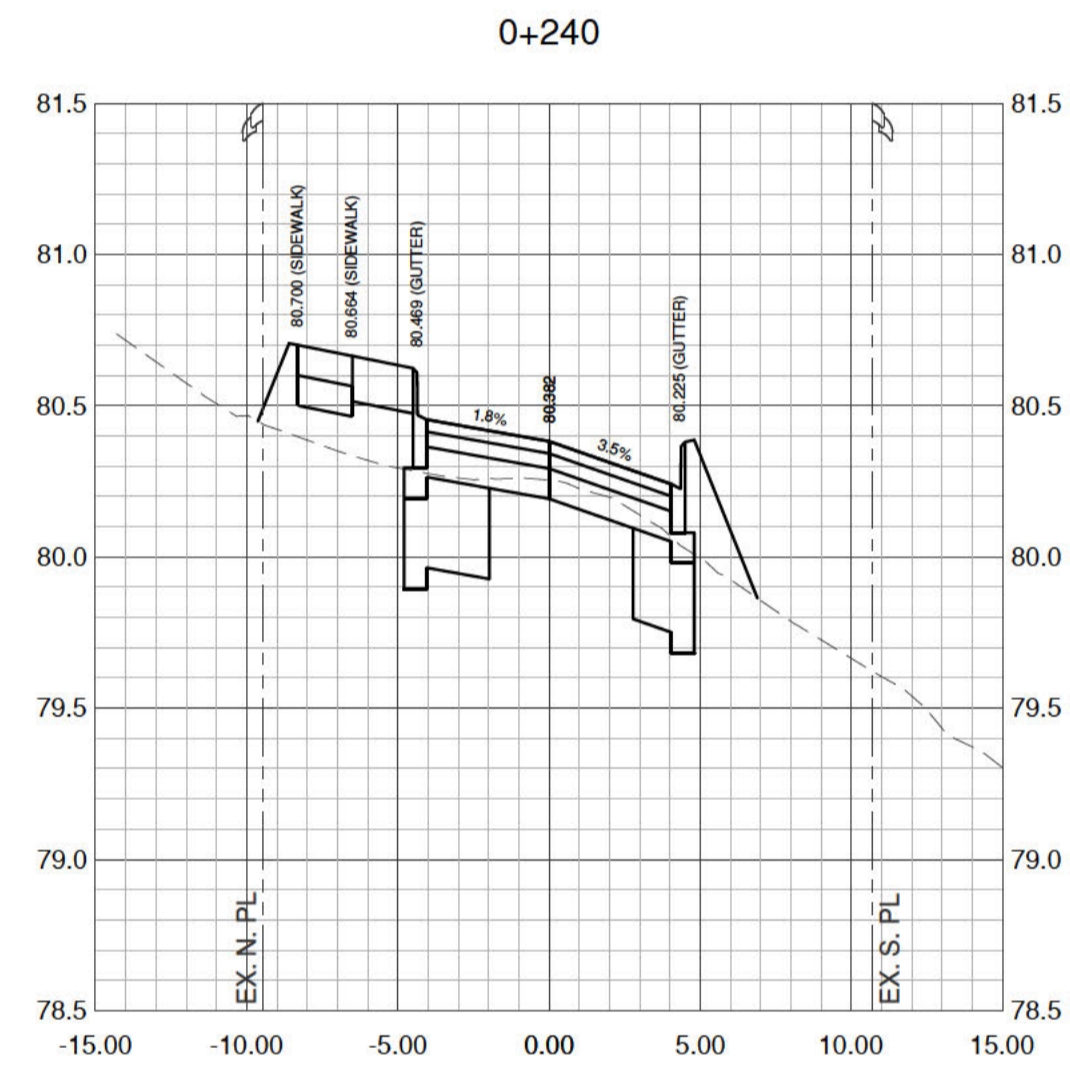
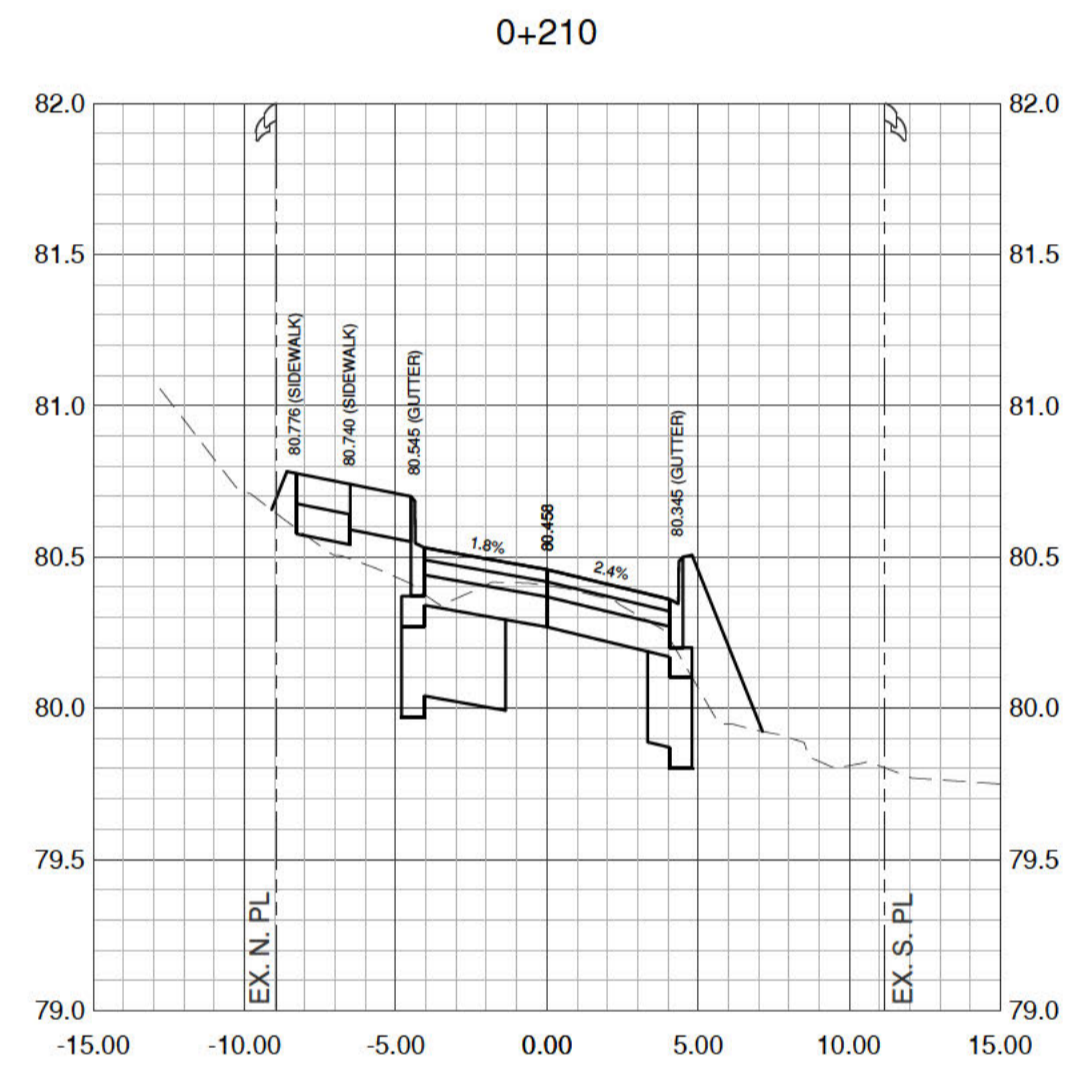
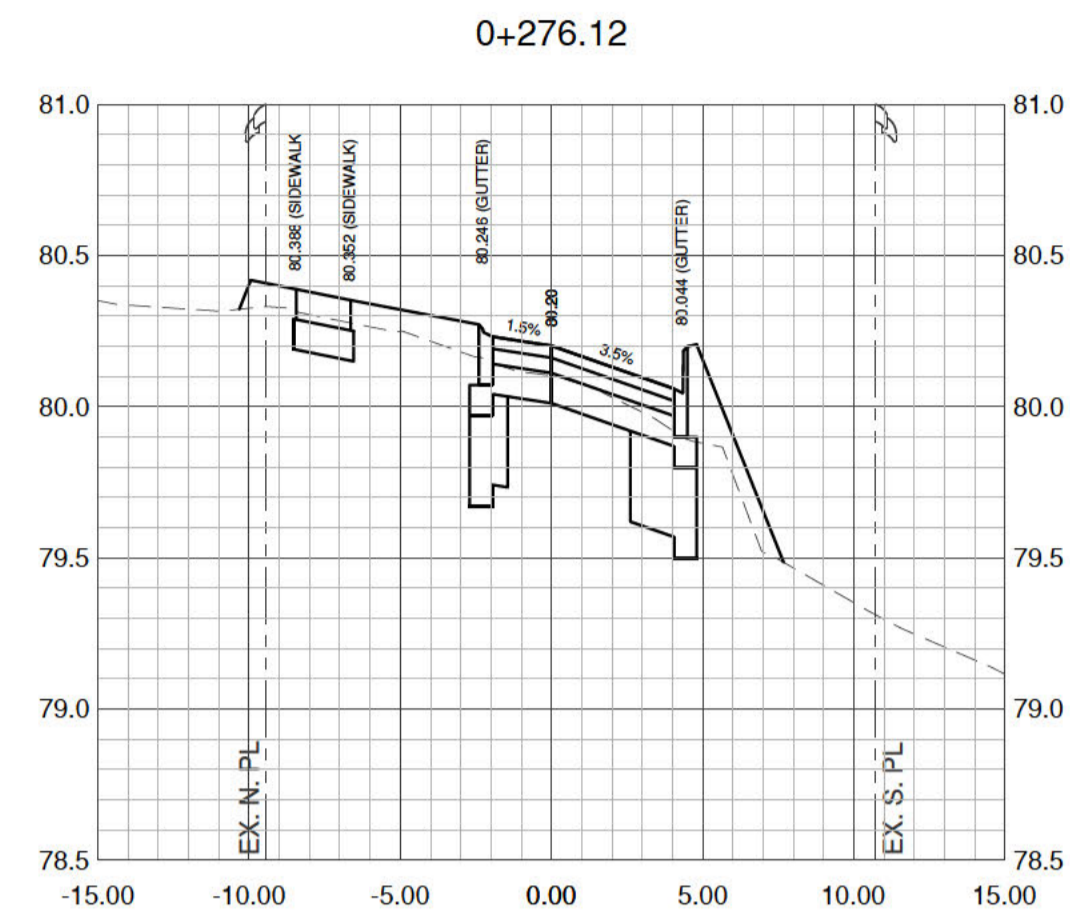
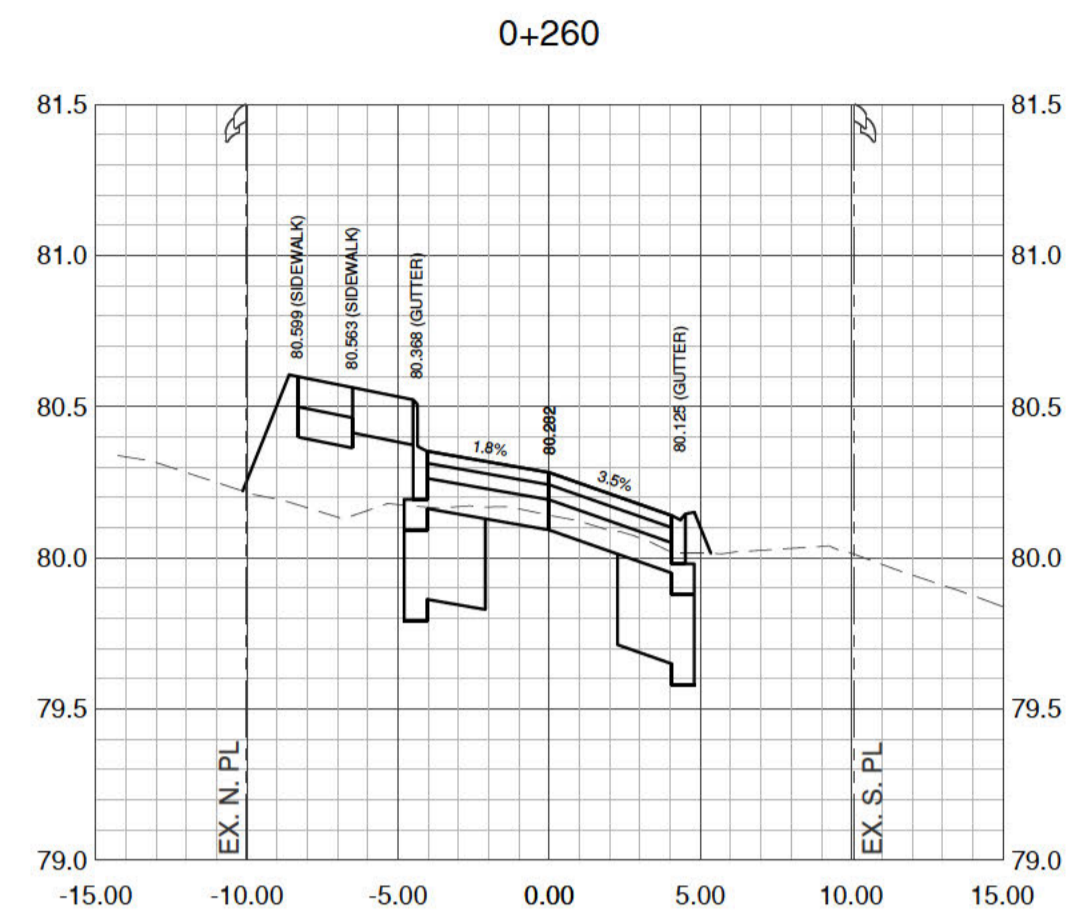
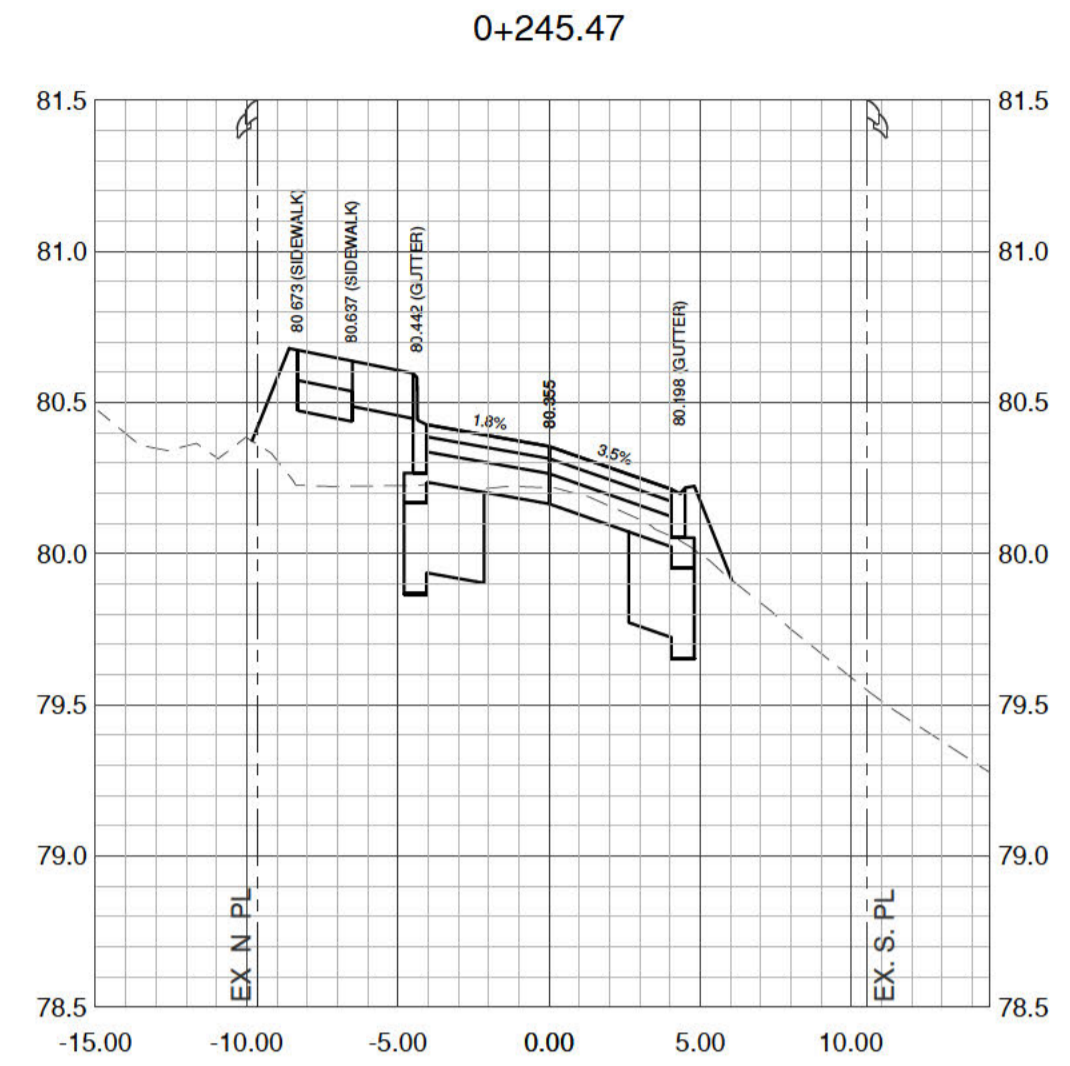
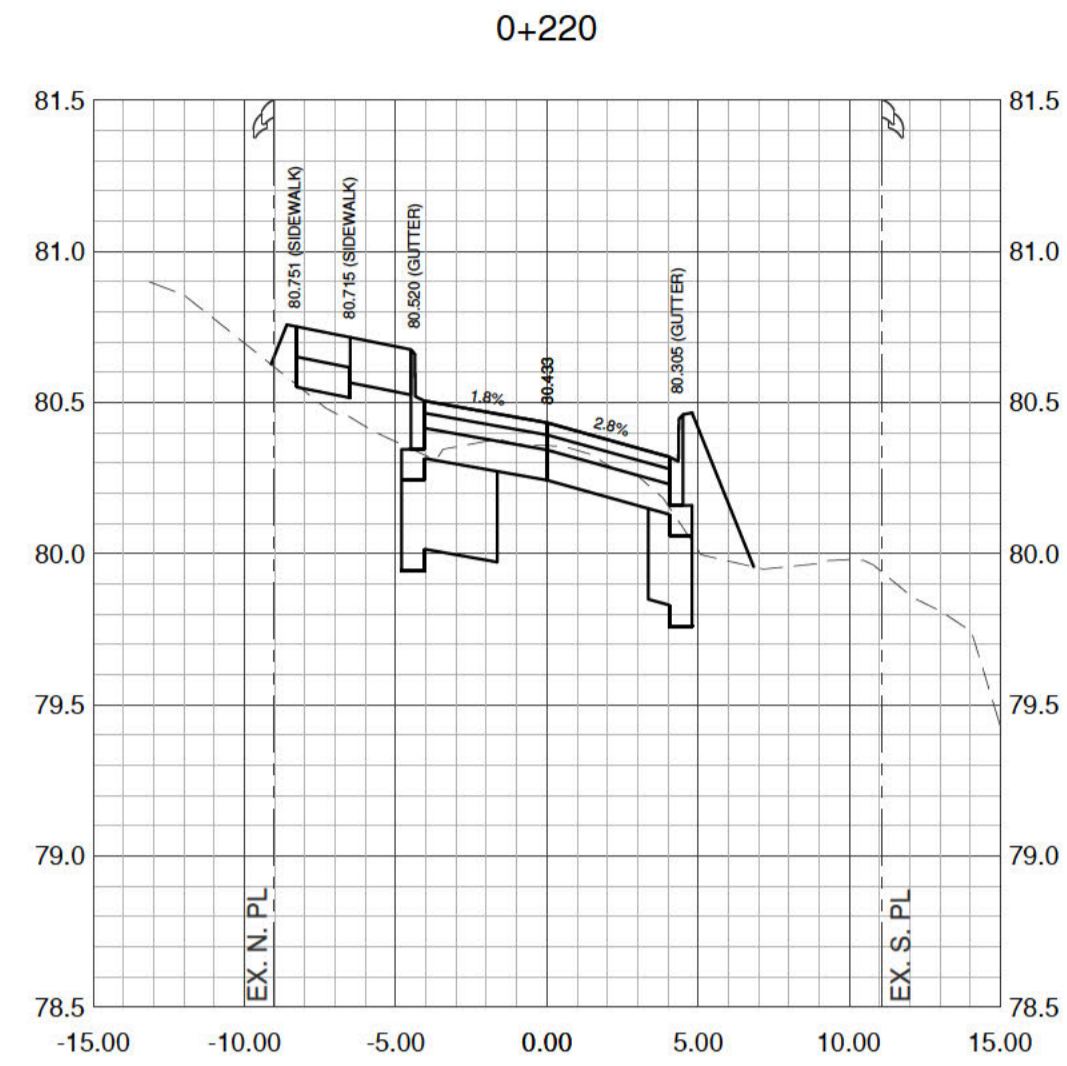
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 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
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 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-1

SHEET 07 OF 10
 REV. 1

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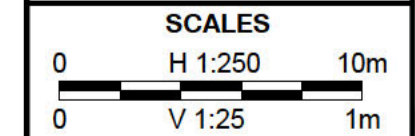
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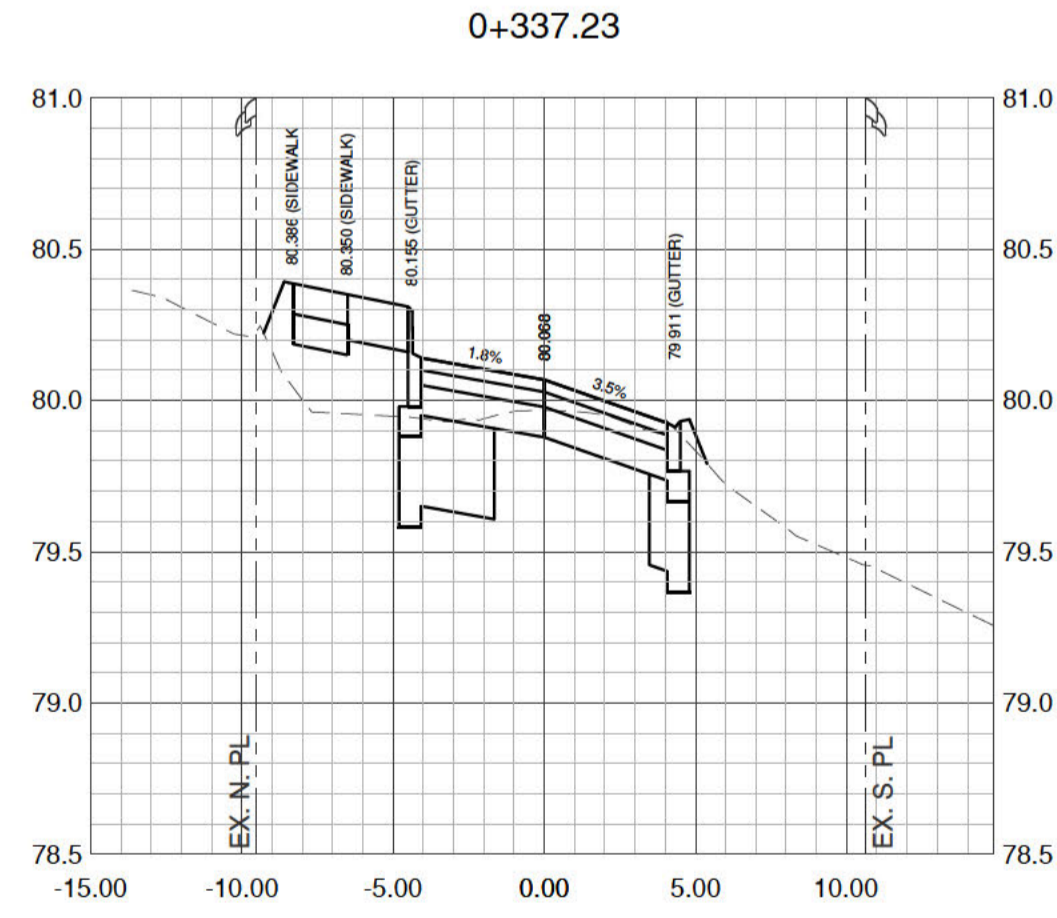
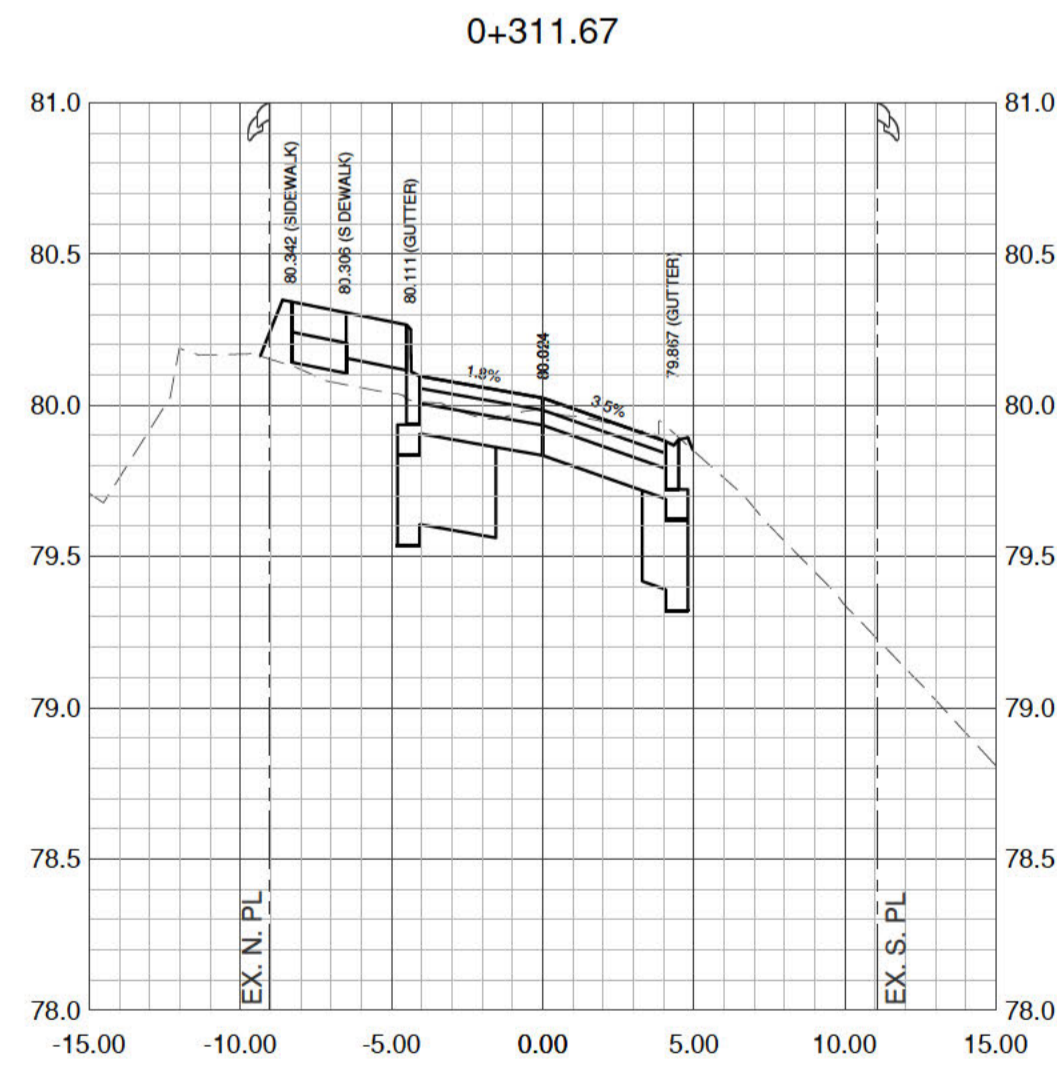
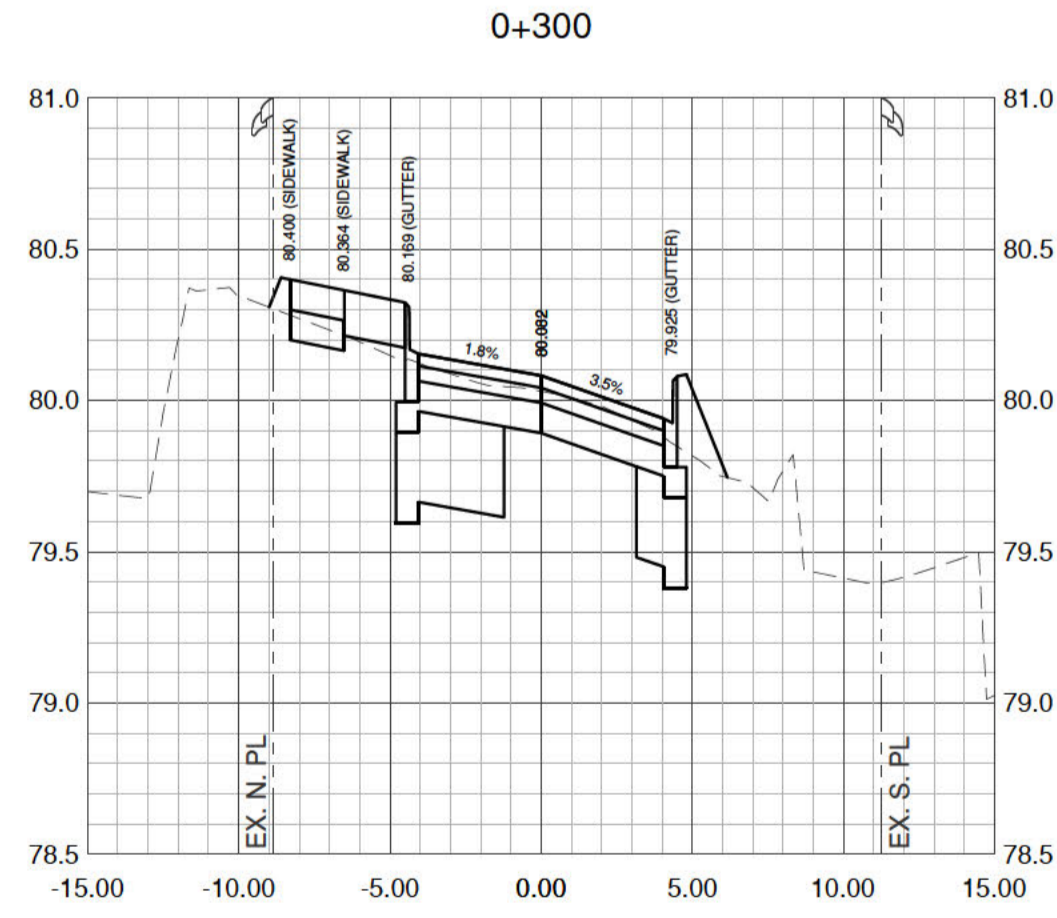
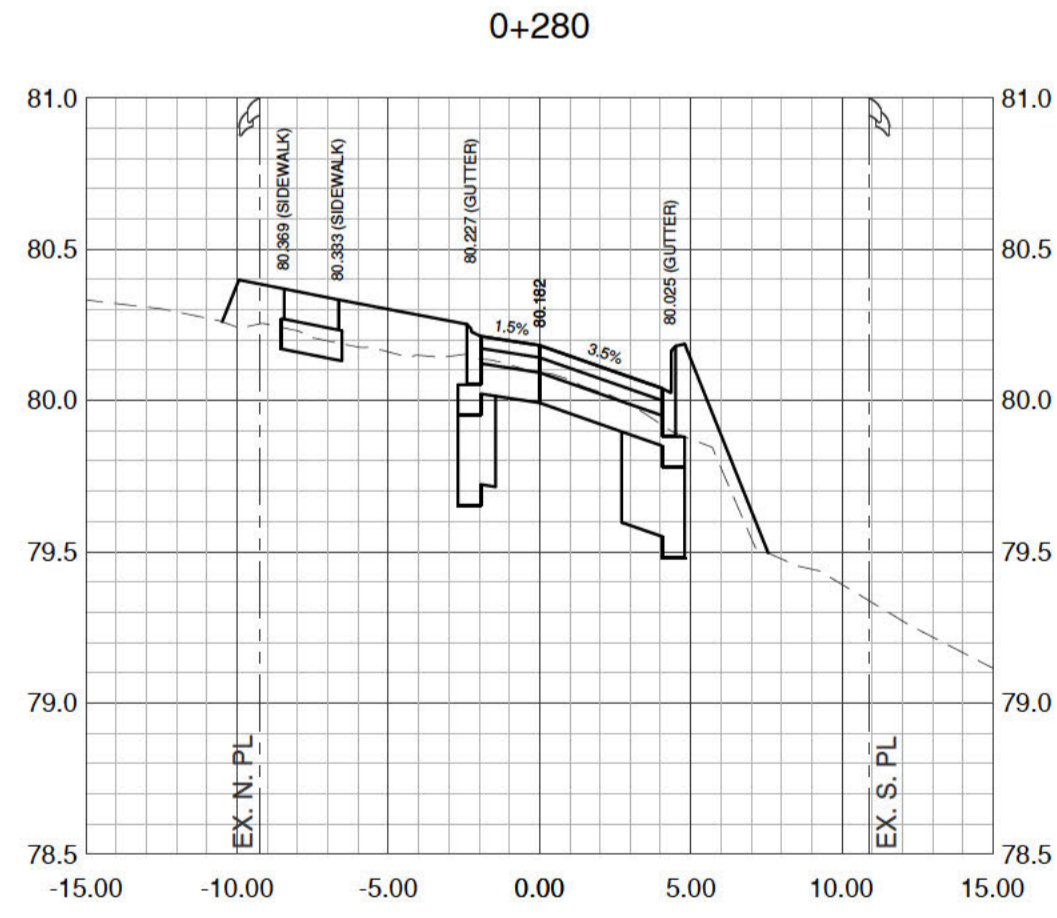
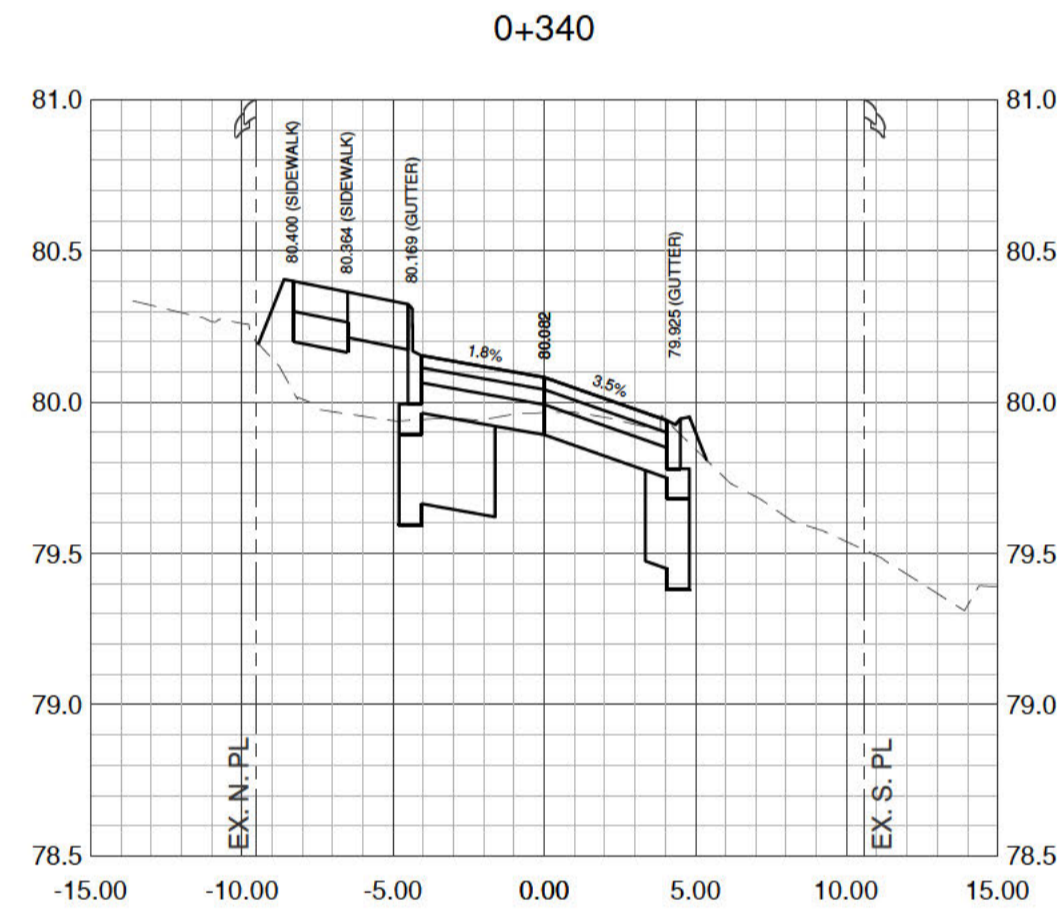
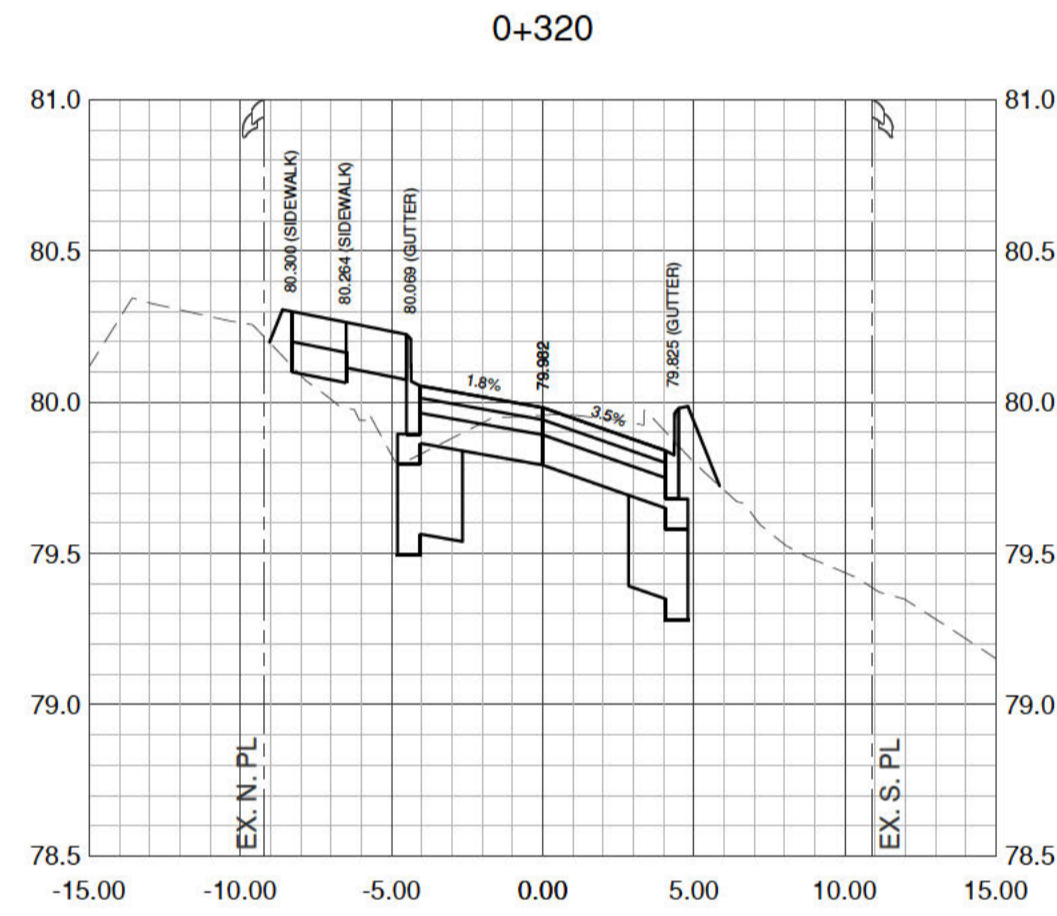
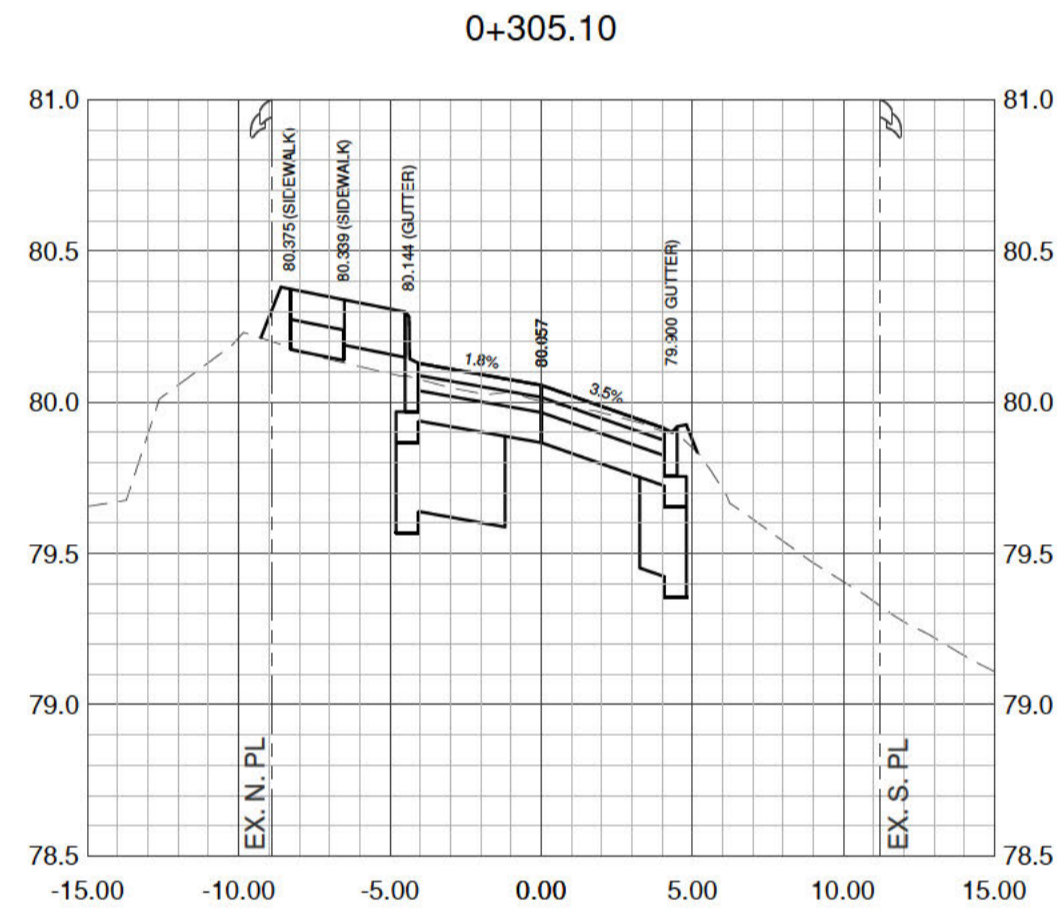
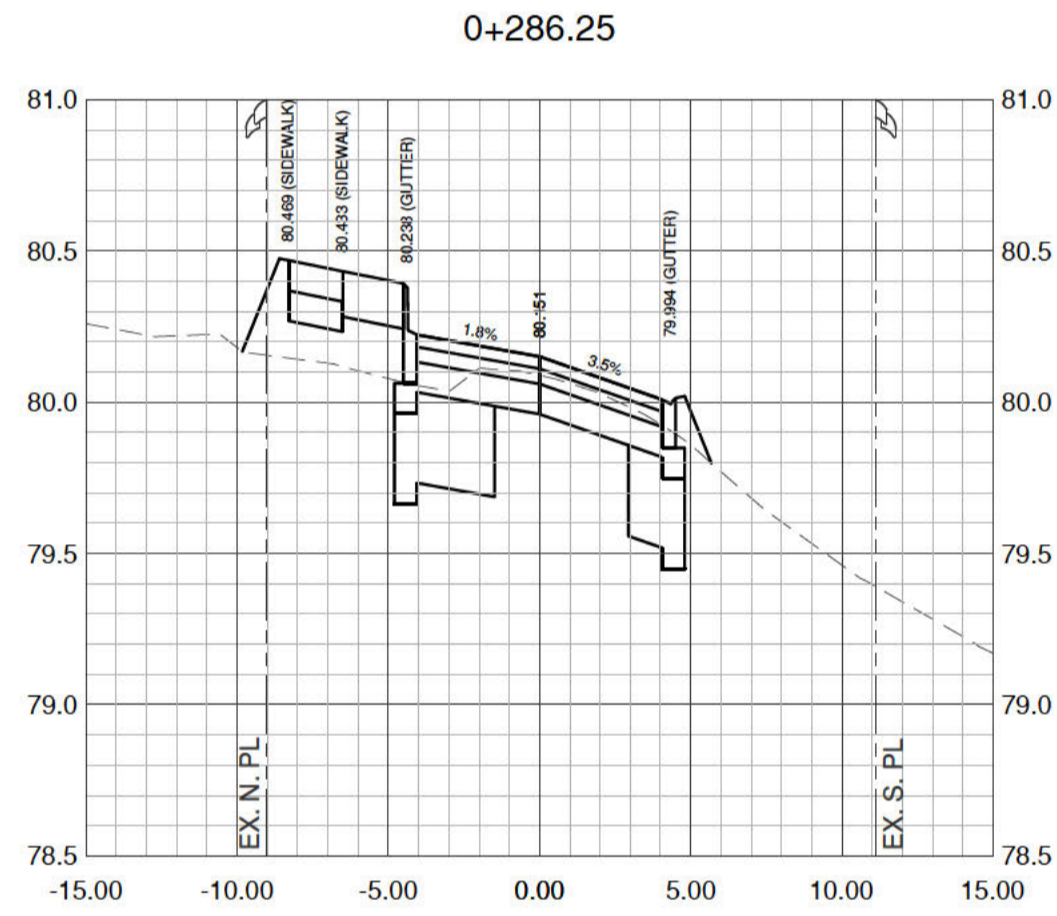
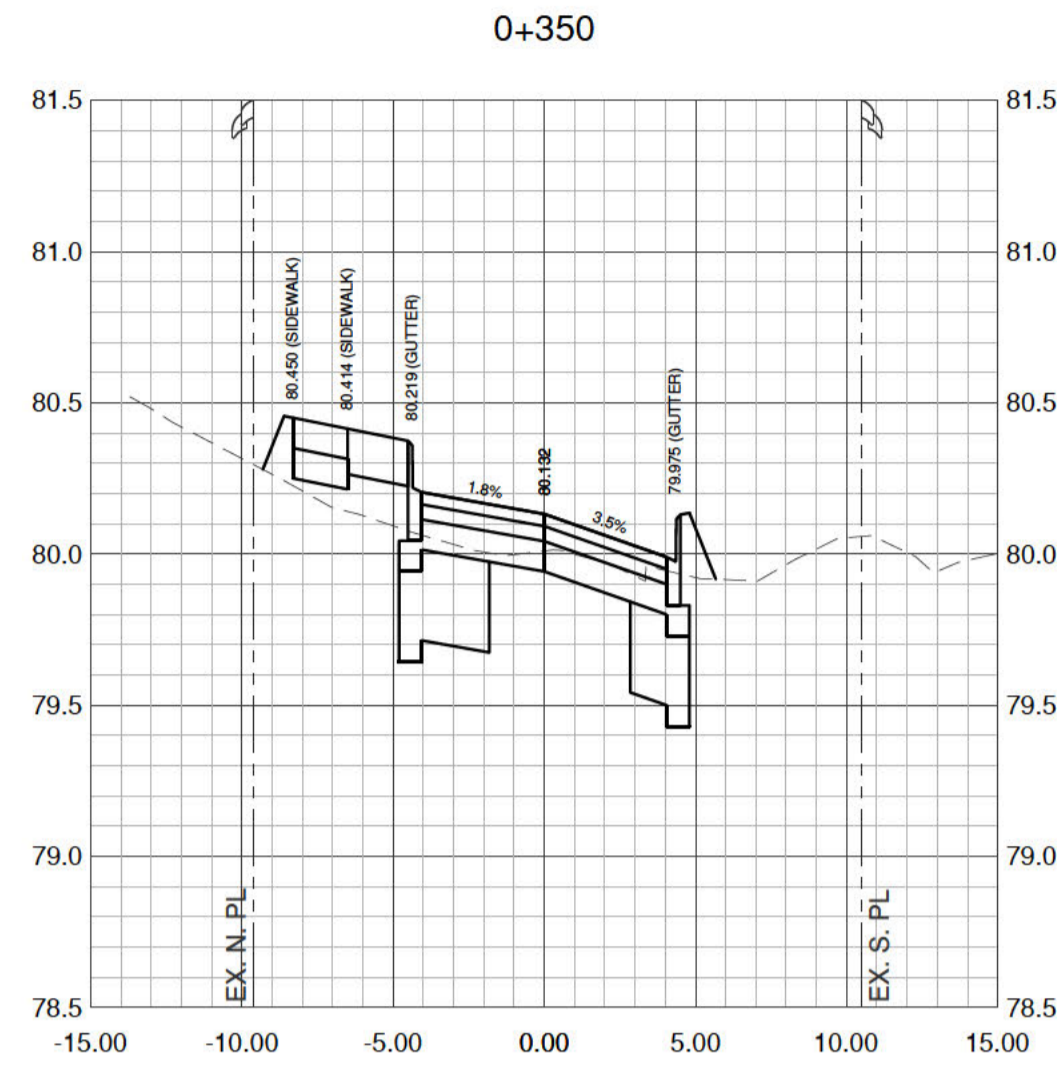
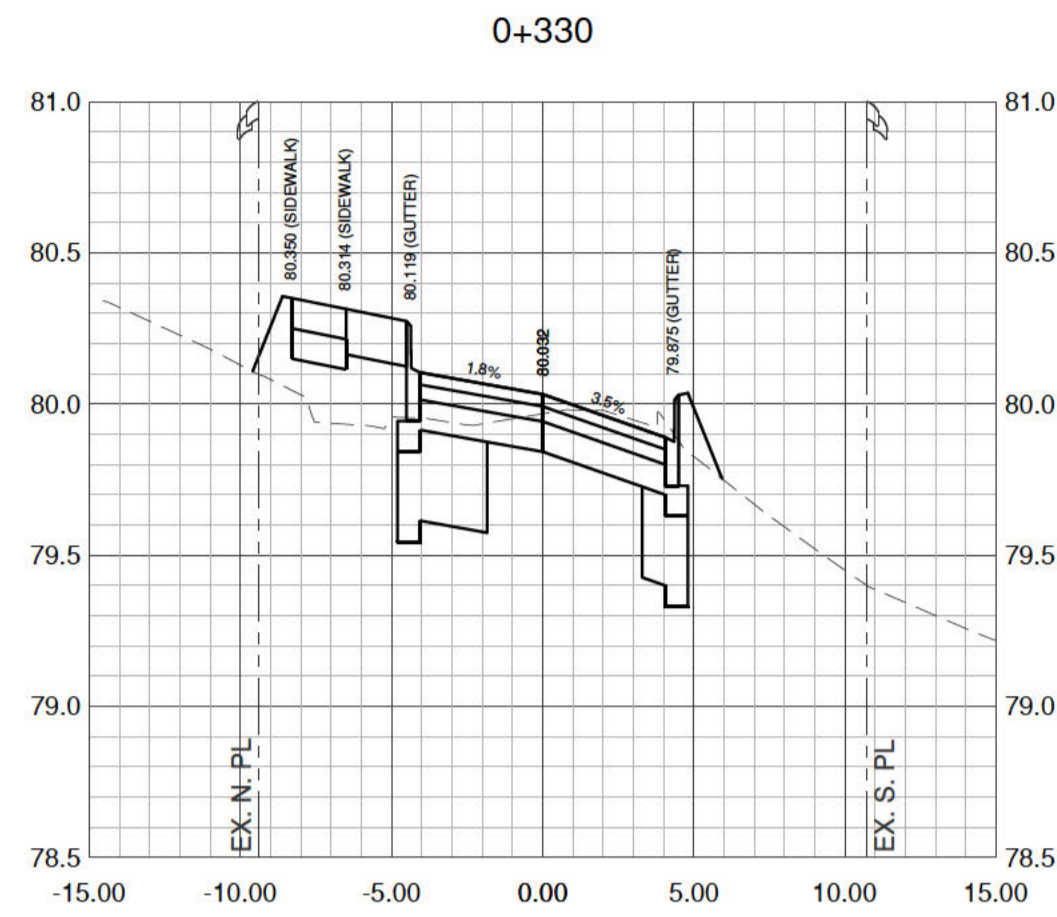
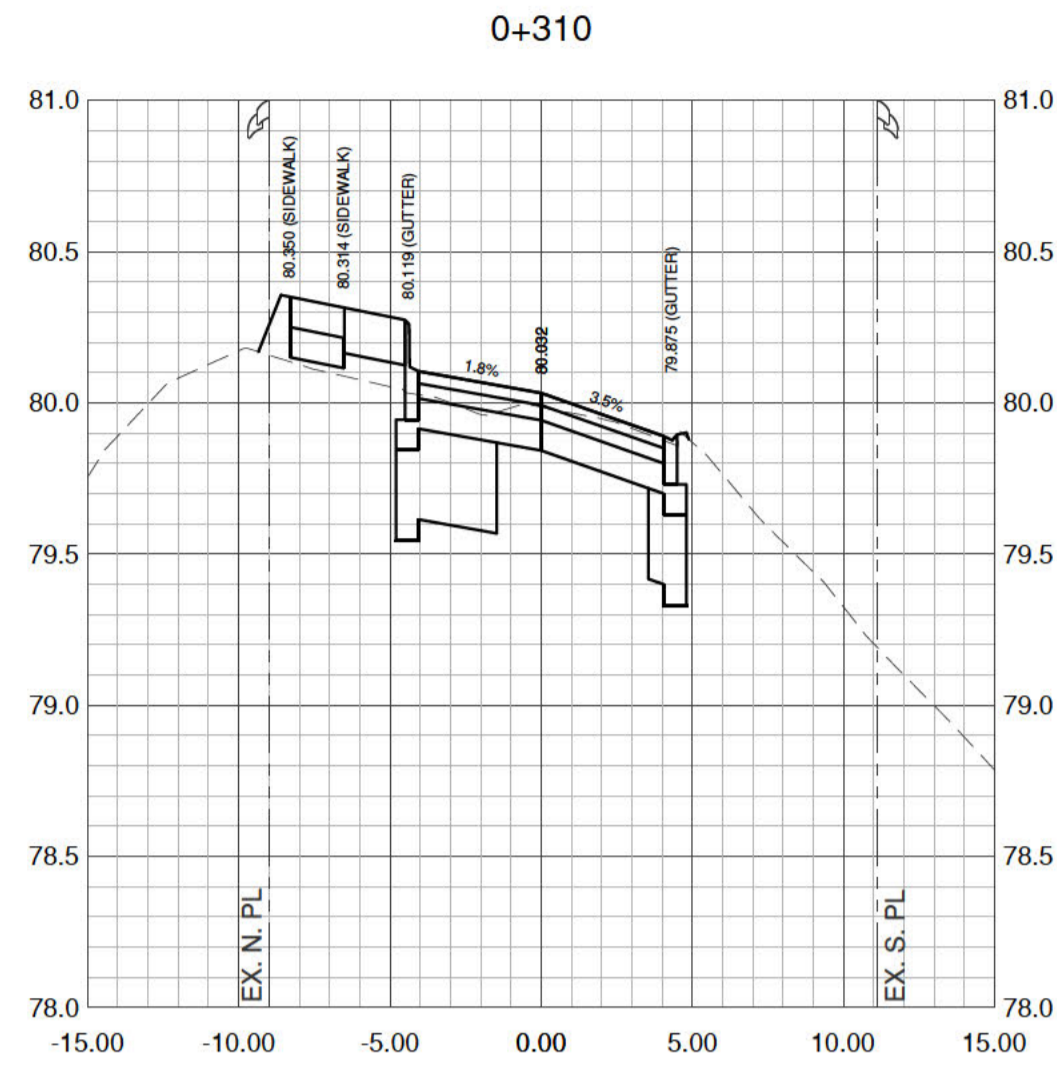
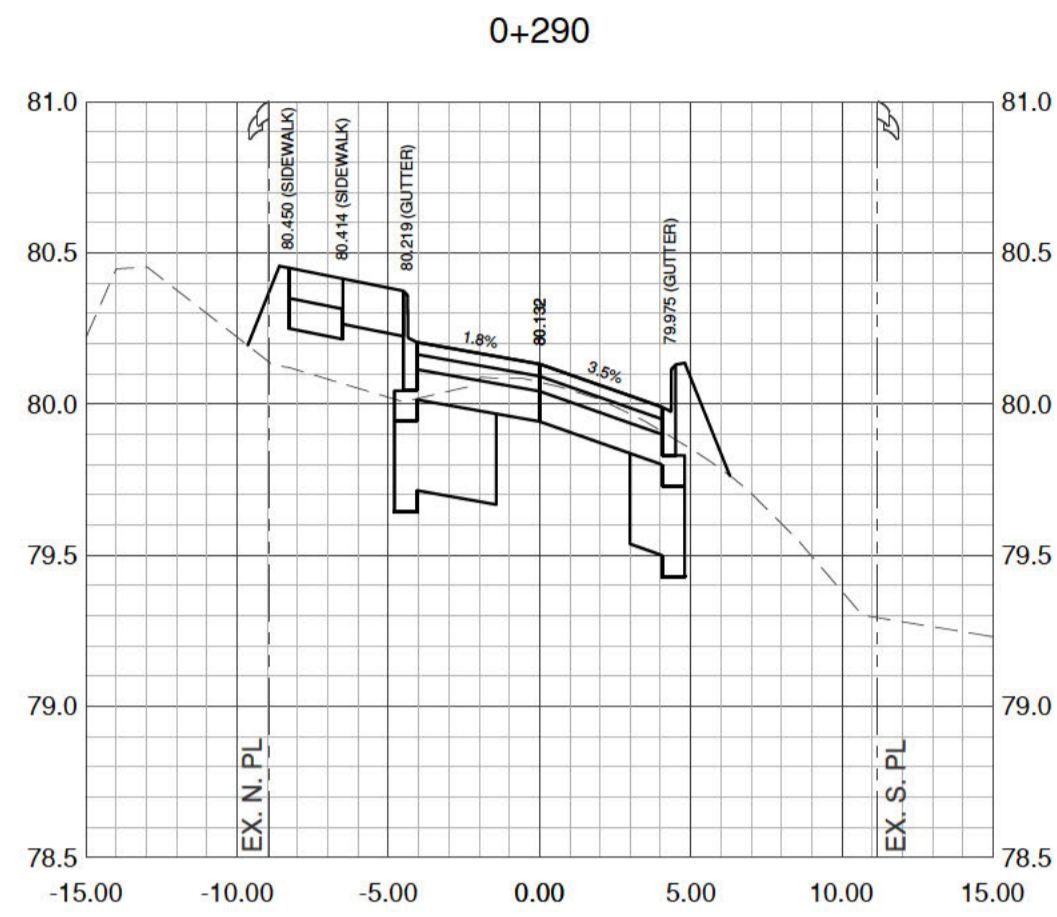
CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET CROSS SECTIONS

SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	RANM
CHECKED BY	RA

DATE	2020-01-28
DRAWING No.	20-0063-XS1-2
SHEET	08 OF 10
REV.	1

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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

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 H 1:250
 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-3

SHEET 09 OF 10
 REV. 1

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CITY COMMENTNS
RECEIVED 2020-05-22

CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAMT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES AND DETAILSSS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D1-1	01
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	03
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	04
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	05
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	06
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	07
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	08
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	10



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Can General Notes sheet be separate from Construction Detail sheet?

1

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, AND FORTIS BC PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
3. ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED. WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
4. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
6. THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
7. OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
8. ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING ON SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPLICABLE AGENCIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, MAIN, UNDERGROUND ELECTRICAL, AND/OR TELEPHONE DUCTS, LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES. LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR BE NEARBY TO THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
12. SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
13. THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SANITARY AND STORM SEWER NOTES:

1. THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH-LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
2. THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.

3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
4. ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
5. ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
6. ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
7. ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD, UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY SEWER SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
9. ALL SANITARY SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS.
10. ALL WYES SHALL BE MANUFACTURED.
11. THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINE TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
12. THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PAC" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
14. THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS PRIOR TO TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER ANY WATER BODIES.
2. THE CONTRACTOR SHALL INSTALL A TEMPORARY FILTER FABRIC INSTALLED TO PREVENT SEDIMENT FROM ENTERING THE CITY OF WHITE ROCK SEWERS DURING CONSTRUCTION. THE FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION WORK IS COMPLETED.
3. THE CONTRACTOR SHALL KEEP ROADS CLEAN DURING CONSTRUCTION. SWEEPERS SHALL BE USED TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR. THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
4. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.
2. THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.
3. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL THE AREAS ARE FULLY ESTABLISHED UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS.
4. THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED PRIOR TO CONSTRUCTION AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO REMOVAL.
5. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP IN RED COLOUR AND UPDATED ON A DAILY BASIS TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
2. THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
3. THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.

Also included on the roadworks sheets

2 - Roadwork notes

3 - Paving notes

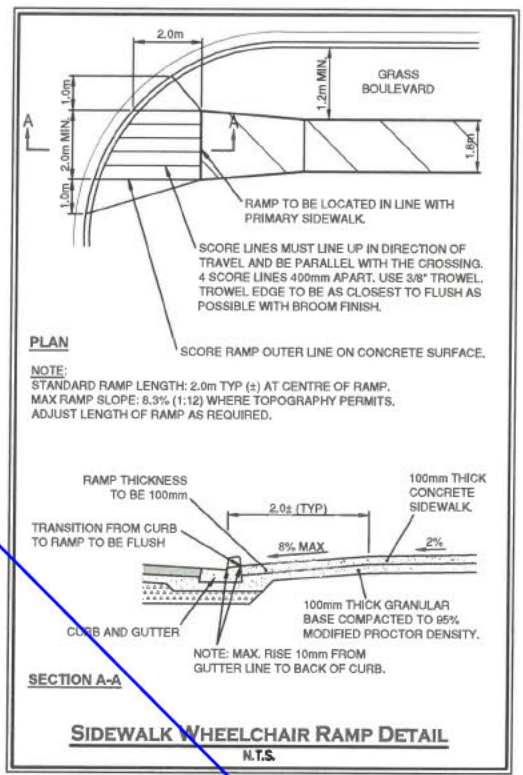
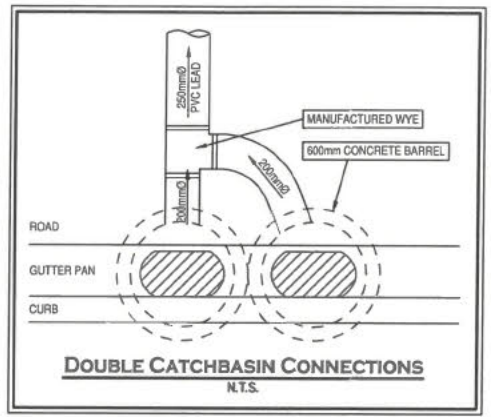
4 - Pavement Markings

Asphalt paving works are per MMCD specifications, and we typically do not provide general notes specifically for paving.

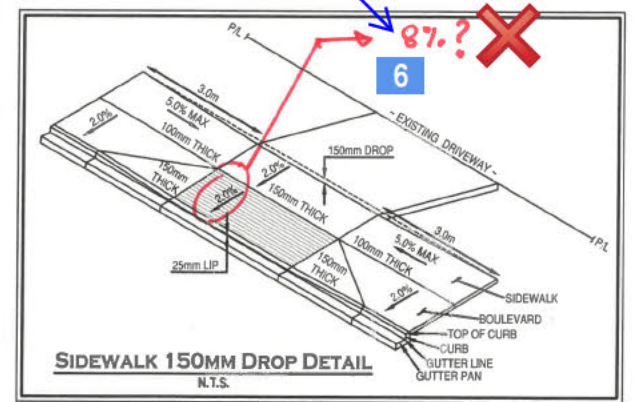
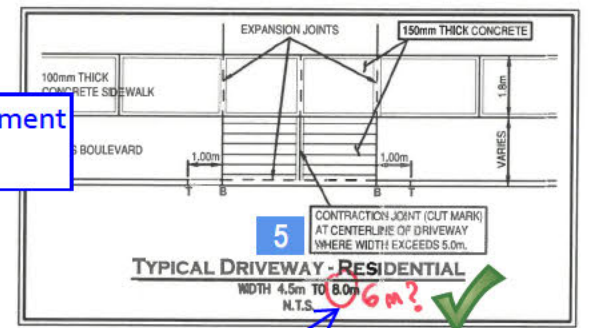
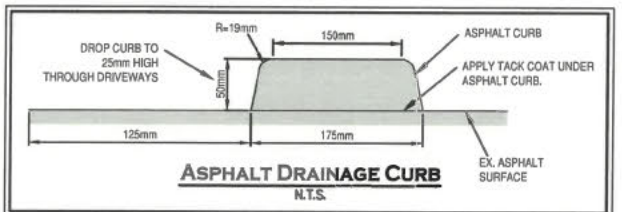
Also included on the pavement marking sheet

Fl note from MMCD DG (2014):
 Driveways - min 4.5m
 Driveways - max:
 6.5m for one-way access
 11.0m for two-way access
 (For urban residential from 4.0 to 7.5)

FOR REFERENCE PURPOSES ONLY



Sidewalk drop allows uniform 2% driveway across crossing



SUMMARY OF MATERIAL TESTING FREQUENCY

MATERIAL	MMCD REFERENCE	TESTING FREQUENCY
CONCRETE CURB AND SIDEWALK	03 30 53 - 1.6,2	1 PER 10m ³ MIN. 1 PER DAY PER SITE LOCATION
SIEVE ANALYSIS AND PROCTORS	31 05 17 - 1.5,2	1 PRIOR TO COMMENCING WORK 1 EVERY 1,000 TONNES
TRENCH (DENSITIES)	31 23 01 - 3.5,4,4	1 PER 50 LINEAL METRE PER 600mm THICK LIFT
ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION (DENSITIES)	31 24 13 - 3.5,7	1 PER 250m ³ PER 300mm THICK LIFT
GRANULAR SUBBASE (DENSITIES)	32 11 16,1 - 3.3,6	1 PER 150mm ² OF MATERIAL PLACED PER 150mm THICK LIFT
GRANULAR BASE (DENSITIES)	32 11 23 - 3.3,6	1 PER 150mm ² OF MATERIAL PLACED PER 150mm THICK LIFT PROOF ROLL PRIOR TO PAVING AND PLACEMENT OF CONCRETE CURB AND SIDEWALKS
HOT-MIX ASPHALT (CONVENTIONAL)	32 12 16 - 1.6,3-9	1 TEST PER EACH ASPHALT TYPE MIN. 1 PER DAY PER SITE LOCATION
TOPSOIL	32 91 21 - 1.5,2	1 PRIOR TO COMMENCING WORK

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No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

CLIENT

DRAWING DESCRIPTION
 BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
 BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
 NOTES AND DETAILSSS

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
 NOT TO SCALE

DATE 2020-05-08
DRAWING No.
 20-0063-D1-1

SHEET 01 **OF** 10 **REV.** 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

PRINTED: 2020-05-12 1:05:46 PM
 FILE: P:\2020\05-08\001 - CAR PAVEMENT\SET DET-D1-001 - BLACKBURN CRESCENT

See Binnie response in Response Form

7 why the SW is not straight at several locations?

See General Note #4 below

12 DENOTES WATER SERVICES TO BE UPSIZED TO 38mm PER CITY STANDARD.

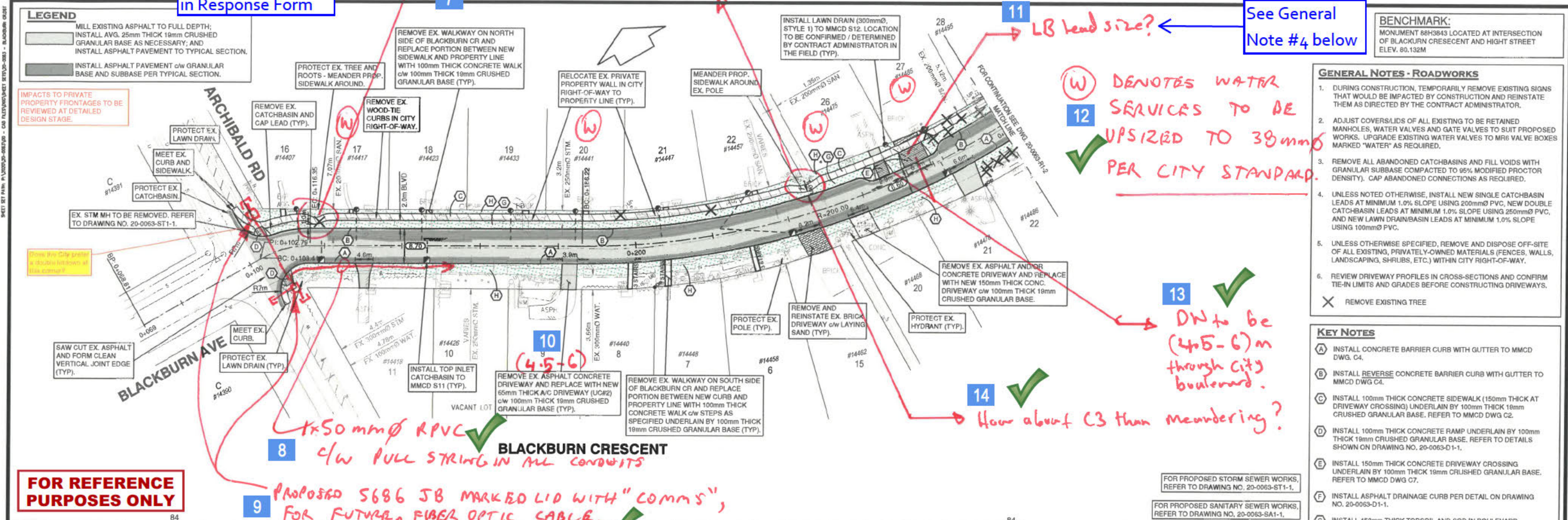
13 DW to be (4.5-6)m through city boulevard.

14 How about C3 than meandering?

8 1x50mmØ RPVC c/w PULL STRING IN ALL CONDUITS

9 Proposed 5686 JB MARKED LID WITH "COMMS", FOR FUTURE FIBER OPTIC CABLE.

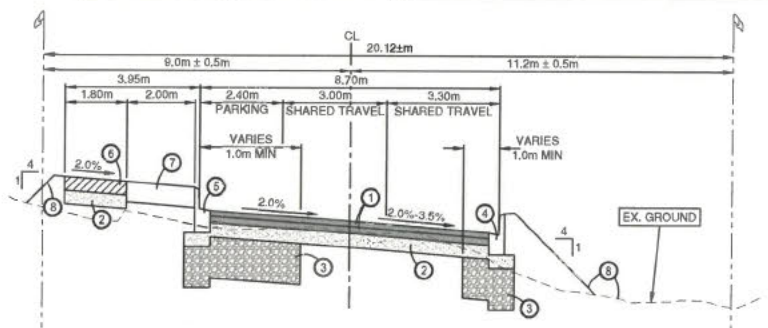
FOR REFERENCE PURPOSES ONLY



BENCHMARK:
MONUMENT 66H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 80.132M

- GENERAL NOTES - ROADWORKS**
- DURING CONSTRUCTION, TEMPORARILY REMOVE EXISTING SIGNS THAT WOULD BE IMPACTED BY CONSTRUCTION AND REINSTATE THEM AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 - ADJUST COVERS/LIDS OF ALL EXISTING TO BE RETAINED MANHOLES, WATER VALVES AND GATE VALVES TO SUIT PROPOSED WORKS. UP-GRADE EXISTING WATER VALVES TO MRE VALVE BOXES MARKED "WATER" AS REQUIRED.
 - REMOVE ALL ABANDONED CATCHBASINS AND FILL VOIDS WITH GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. CAP ABANDONED CONNECTIONS AS REQUIRED.
 - UNLESS NOTED OTHERWISE, INSTALL NEW SINGLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 200mmØ PVC, NEW DOUBLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 250mmØ PVC, AND NEW LAWN DRAIN/BASIN LEADS AT MINIMUM 1.0% SLOPE USING 100mmØ PVC.
 - UNLESS OTHERWISE SPECIFIED, REMOVE AND DISPOSE OFF-SITE OF ALL EXISTING, PRIVATELY-OWNED MATERIALS (FENCES, WALLS, LANDSCAPING, SHRUBS, ETC.) WITHIN CITY RIGHT-OF-WAY.
 - REVIEW DRIVEWAY PROFILES IN CROSS-SECTIONS AND CONFIRM TIE-IN LIMITS AND GRADES BEFORE CONSTRUCTING DRIVEWAYS.
- ✕ REMOVE EXISTING TREE

- KEY NOTES**
- (A) INSTALL CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG. C4.
 - (B) INSTALL REVERSE CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG. C4.
 - (C) INSTALL 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING) UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG. C2.
 - (D) INSTALL 100mm THICK CONCRETE RAMP UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO DETAILS SHOWN ON DRAWING NO. 20-0063-D1-1.
 - (E) INSTALL 150mm THICK CONCRETE DRIVEWAY CROSSING UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG. C7.
 - (F) INSTALL ASPHALT DRAINAGE CURB PER DETAIL ON DRAWING NO. 20-0063-D1-1.
 - (G) INSTALL 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
 - (H) INSTALL 150mm THICK TOPSOIL AND HYDROSEED.



TYPICAL SECTION
BLACKBURN CRESCENT (0+124 TO 0+300)
SCALE 1:100H 1:25V

- 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
• 40mm THICK UPPER COURSE #2;
• 50mm THICK LOWER COURSE #2.
- 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- 300mm THICK 75mm SELECT GRANULAR SUBBASE COMPACTED TO MIN. 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD DRAWING NO. C4.
- REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD DRAWING NO. C4.
- 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING). REFER TO MMCD DRAWING NO. C2.
- 150mm THICK TOPSOIL AND SOD FOR BOULEVARD TREE PLANTING.
- 150mm THICK TOPSOIL AND HYDROSEED TO PROPERTY LINE.

STATION	EX. GRND ELEV. ON PROP. C/L	PROP. SOUTH GUTTER ELEV.	PROP. ROAD C/L ELEV.	PROP. NORTH GUTTER ELEV.
0+060	76.66			
0+100	76.98			
0+102.822				
0+110	80.042			
0+157.798				
0+160				
0+162.227				
0+164.546				
0+167				
0+170				
0+172				
0+174				
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0+292				
0+294				
0+296				
0+298				
0+300				

FOR REFERENCE PURPOSES ONLY

FOR REFERENCE PURPOSES ONLY

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



R.F. BINNIE & ASSOCIATES LTD.
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CLIENT
CITY OF WHITE ROCK
877 NEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
ROADWORKS

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY RANM
CHECKED BY RA

SCALES
H 1:500 20m
V 1:50 2m

DATE 2020-01-28
DRAWING No. 20-0063-R1-1
SHEET 02 OF 10
REV. 1

DRAFT

LEGEND
 MILL EXISTING ASPHALT TO FULL DEPTH;
 INSTALL AVG. 25mm THICK 19mm CRUSHED
 GRANULAR BASE AS NECESSARY; AND
 INSTALL ASPHALT PAVEMENT TO TYPICAL SECTION.
 INSTALL ASPHALT PAVEMENT c/w GRANULAR
 BASE AND SUBBASE PER TYPICAL SECTION.

IMPACTS TO PRIVATE
 PROPERTY FRONTAGES TO BE
 REVIEWED AT DETAILED
 DESIGN STAGE.

**FOR REFERENCE
 PURPOSES ONLY**

REMOVE EX. EXPOSED
 AGGREGATE CONCRETE
 DRIVEWAY AND REPLACE
 WITH NEW 150mm THICK
 EXP. AGG. CONC. DRIVEWAY
 c/w 100mm THICK 19mm
 CRUSHED GRANULAR BASE.

INSTALL TOP INLET
 DOUBLE CATCHBASIN TO
 MMCD S11. REFER TO
 DETAILS ON DRAWING
 NO. 20-0063-D1-1.

REMOVE EX. SANITARY
 MANHOLE AND CAP MAIN.

REMOVE EX. CATCHBASIN
 AND CAP LEAD (TYP.).

REMOVE EX. ASPHALT AND/OR
 CONCRETE DRIVEWAY AND
 REPLACE WITH NEW 150mm THICK
 CONC. DRIVEWAY c/w 100mm THICK
 19mm CRUSHED GRANULAR BASE.

REMOVE EXISTING
 SANITARY MANHOLE
 AND CAP MAIN.

REMOVE AND
 REINSTATE EX. BRICK
 DRIVEWAY c/w LAYING
 SAND (TYP.).

REMOVE EX. WALKWAY ON THE
 NORTH SIDE AND REPLACE
 PORTION BETWEEN NEW
 SIDEWALK AND PROPERTY LINE
 WITH 100mm THICK CONCRETE
 WALK c/w 100mm THICK 19mm
 CRUSHED GRANULAR BASE (TYP.).

INSTALL LAWN DRAIN (300mmØ),
 STYLE 1) TO MMCD S12. LOCATION
 TO BE CONFIRMED / DETERMINED
 BY CONTRACT ADMINISTRATOR IN
 THE FIELD (TYP.).

PROTECT EX. TREES IN PRIVATE
 PROPERTY (TYP.).

REMOVE AND
 RE-INSTATE EX
 METAL FENCE.

INSTALL ASPHALT SIDEWALK
 (50mm THICK, UC#2) c/w 100mm
 THICK 19mm CRUSHED
 GRANULAR BASE.

PROTECT EX. TREE AND ROOTS.

INSTALL STYLE 1 INTERIM CURB PER
 MMCD STD. DWG. C6 BETWEEN
 NORTH SIDE OF BLACKBURN LN AND
 SOUTH SIDE OF MANN PARK CR.

LIMITS OF NEW
 ASPHALT CURB.

16 Affected boulevard to
 be restored to 150mm
 topsoil & sod.

17 Restore
 with
 concrete?

18 PROPOSED
 50mm Ø RPVC

19 SAW CUT EX. ASPHALT TO FORM
 A CLEAN VERTICAL JOINT.

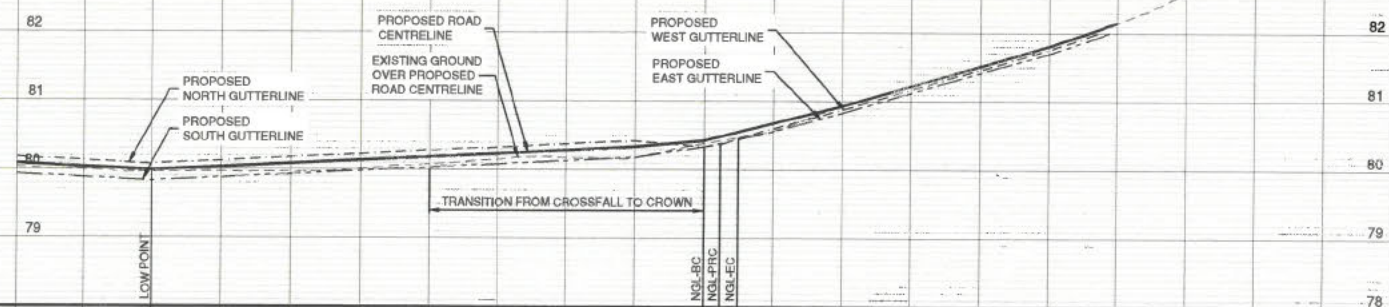
20 Dim & details of
 asphalt ramp?

21 why two types of asphalt curbs?

5686 J&B LID MARKED
 "COMMS"
 INCLUDE STUB TO
 WELL #4.

Pending - see spreadsheet

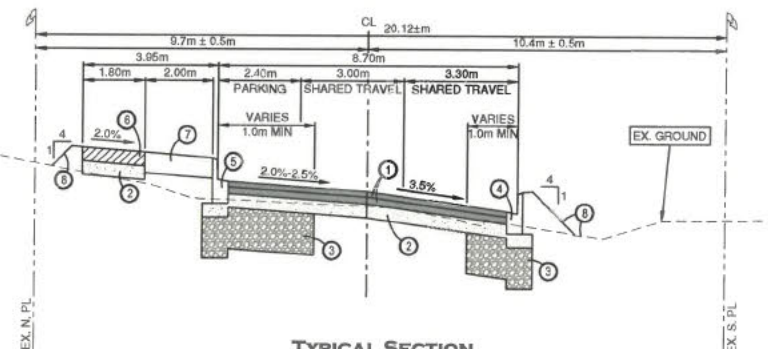
Pending - see spreadsheet



STATION	PROP. NORTH/WEST GUTTER ELEV.	PROP. ROAD C/L ELEV.	PROP. SOUTH/EAST GUTTER ELEV.	EX. GRND ELEV. ON PROP. C/L
0+300	80.189	80.092	79.925	80.03
0+310	80.119	80.092	79.975	79.986
0+320	80.069	79.992	79.895	79.96
0+330	80.119	80.092	79.875	79.968
0+340	80.169	80.092	79.925	79.97
0+350	80.219	80.132	79.975	80.010
0+360	80.269	80.182	80.025	80.08
0+370	80.319	80.232	80.075	80.146
0+380	80.369	80.282	80.125	80.17
0+390	80.419	80.332	80.175	80.177
0+400	80.331	80.427	80.331	80.38
0+410	80.365	80.458	80.353	80.562
0+420	80.371	80.495	80.326	80.59
0+430	81.165	81.219	81.118	81.226
0+440	81.459	81.512	81.409	81.51
0+450	81.749	81.803	81.692	81.803
0+457.081	81.992	82.003	82.003	82.15
0+460		82.146		82.590
0+480		83.14		83.726
0+500		84.32		

- KEY NOTES**
- (A) INSTALL CONCRETE BARRIER CURB WITH
MMCD DWG C4.
 - (B) INSTALL REVERSE CONCRETE BARRIER
MMCD DWG C4.
 - (C) INSTALL 100mm THICK CONCRETE SIDEWALK (150mm THICK AT
DRIVEWAY CROSSING) UNDERLAIN BY 100mm THICK 19mm
CRUSHED GRANULAR BASE. REFER TO MMCD DWG C2.
 - (D) INSTALL 100mm THICK CONCRETE RAMP UNDERLAIN BY 100mm
THICK 19mm CRUSHED GRANULAR BASE. REFER TO DETAILS
SHOWN ON 20-0063-D1-1.
 - (E) INSTALL 150mm THICK CONCRETE DRIVEWAY CROSSING
UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE.
REFER TO MMCD DWG C7.
 - (F) INSTALL ASPHALT DRAINAGE CURB PER DETAIL ON 20-0063-D1-1.
 - (G) INSTALL 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
 - (H) INSTALL 150mm THICK TOPSOIL AND HYDROSEED.
 - (I) INSTALL 50mm THICK ASPHALT RAMP (UC#2) UNDERLAIN BY
100mm THICK 19mm CRUSHED GRANULAR BASE.

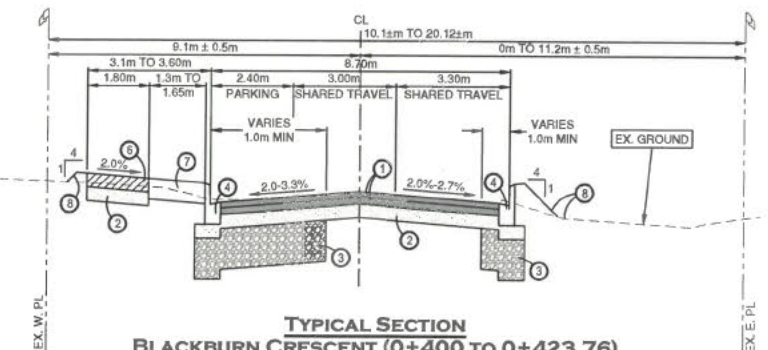
- ES - ROADWORKS**
1. DURING CONSTRUCTION, TEMPORARILY REMOVE EXISTING SIGNS
THAT WOULD BE IMPACTED BY CONSTRUCTION AND REINSTATE
THEM AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 2. ADJUST COVERS/LIDS OF ALL EXISTING TO BE RETAINED
MANHOLES, WATER VALVES AND GATE VALVES TO SUIT PROPOSED
WORKS. UPGRADE EXISTING WATER VALVES TO MRE VALVE BOXES
MARKED "WATER" AS REQUIRED.
 3. REMOVE ALL ABANDONED CATCHBASINS AND FILL VOIDS WITH
GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR
DENSITY. CAP ABANDONED CONNECTIONS AS REQUIRED.
 4. UNLESS NOTED OTHERWISE, INSTALL NEW SINGLE CATCHBASIN
LEADS AT MINIMUM 1.0% SLOPE USING 200mmØ PVC, NEW DOUBLE
CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 250mmØ PVC,
AND NEW LAWN DRAIN/BASIN LEADS AT MINIMUM 1.0% SLOPE
USING 100mmØ PVC.
 5. UNLESS OTHERWISE SPECIFIED, REMOVE AND DISPOSE OFF-SITE
OF ALL EXISTING, PRIVATELY-OWNED MATERIALS (FENCES, WALLS,
LANDSCAPING, SHRUBS, ETC.) WITHIN CITY RIGHT-OF-WAY.
 6. REVIEW DRIVEWAY PROFILES IN CROSS-SECTIONS AND CONFIRM
TIE-IN LIMITS AND GRADES BEFORE CONSTRUCTING DRIVEWAYS.
- REMOVE EXISTING TREE



TYPICAL SECTION
 BLACKBURN CRESCENT (0+300 TO 0+400)
 SCALE 1:100H 1:25V

- 1 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
• 40mm THICK UPPER COURSE #2;
• 50mm THICK LOWER COURSE #2.
- 2 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED
PROCTOR DENSITY AT MINIMUM.
- 3 300mm THICK 75mm SELECT GRANULAR SUBBASE COMPACTED TO MIN. 95%
MODIFIED PROCTOR DENSITY AT MINIMUM.
- 4 CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD
DRAWING NO. C4.
- 5 REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD
DRAWING NO. C4.
- 6 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING).
REFER TO MMCD DRAWING NO. C2.
- 7 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
- 8 150mm THICK TOPSOIL AND HYDROSEED.

Changed to
 CRUSHED



TYPICAL SECTION
 BLACKBURN CRESCENT (0+400 TO 0+423.76)
 SCALE 1:100H 1:25V

DRAFT

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

BINNIE
 The people behind your infrastructure.

R.F. BINNIE & ASSOCIATES LTD.
 314-9440 202 Street
 Langley, BC V1M 4A6
 TEL 604 574 3336
 BINNIE.com

CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
ROADWORKS

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
 H 1:500 20m
 V 1:50 2m

DATE 2020-01-28
 DRAWING No.
20-0063-R1-2

SHEET 03 OF 10 REV. 1
 DESTROY ALL PRINTS BEARING PREVIOUS No.

FOR REFERENCE PURPOSES ONLY

Binnie recommends use of MUTCDC (the MUTCD for Canada) as opposed to MUTCD (which is for the U.S.).

Figure A2-1 of MUTCDC shows min 0.3m to max 2.0m between edge of STOP sign and edge of road (curb barrier) in urban districts.

MUTCD Fig 2A-3
6 ft min from road edge

23 min. 4.5m wide letdown
24 max. 6.0m wide letdown

25 - All driveways min 4.5m - 6.0m even pavers & asphalt

BENCHMARK:
MONUMENT 88H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

- GENERAL NOTES - PAVEMENT MARKING**
- ALL PAVEMENT MARKING LINES AND SYMBOLS TO BE THERMOPLASTIC.
 - PAVEMENT MARKING AND SIGNS TO BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).

- KEY NOTES**
- A INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
 - B INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
 - C INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.
FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.
FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

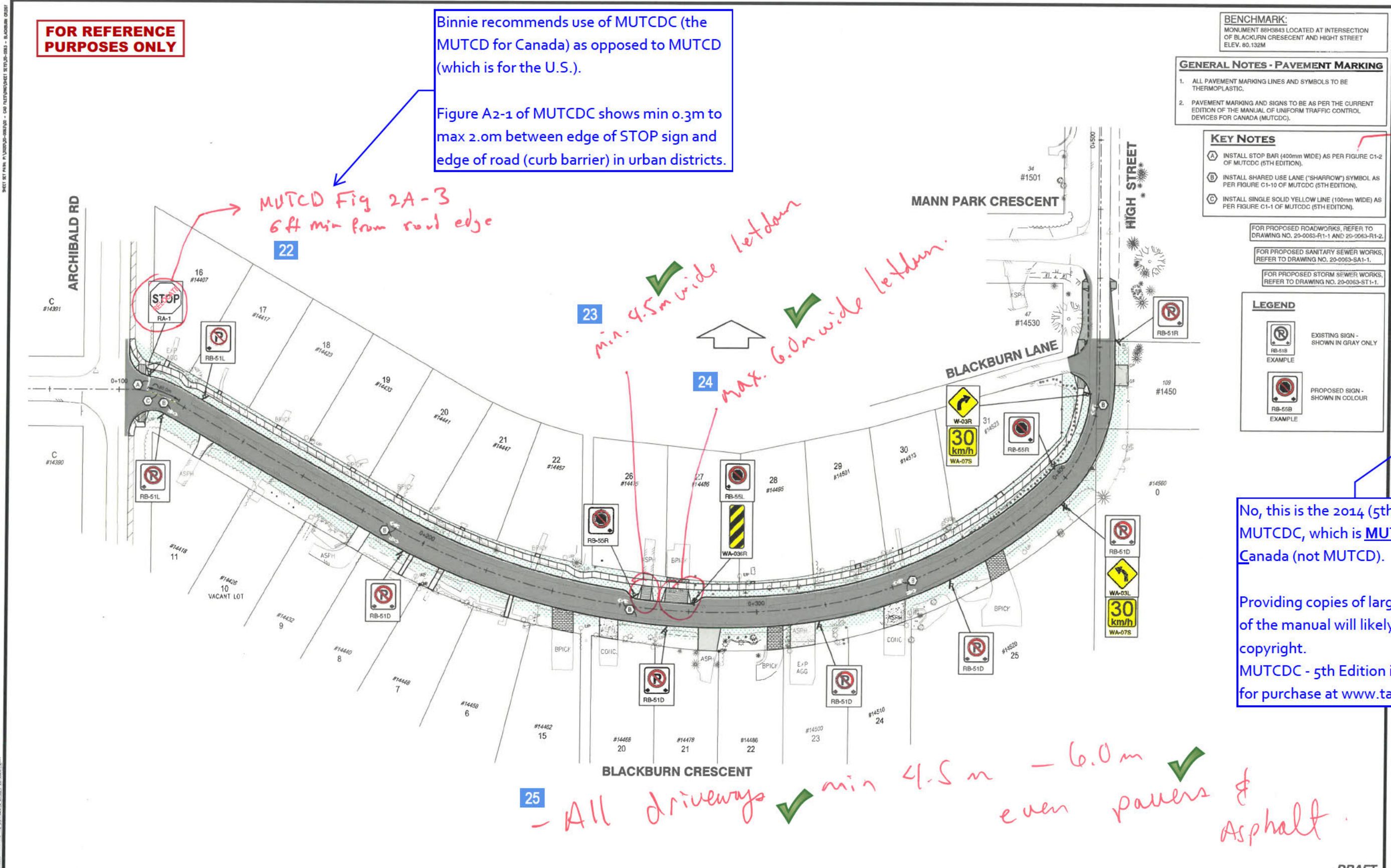
LEGEND

- EXISTING SIGN - SHOWN IN GRAY ONLY
- EXAMPLE RB-51B
- PROPOSED SIGN - SHOWN IN COLOUR
- EXAMPLE RB-55B

26
is this 2009th edition? I cannot find these signs there. Can part 2 section of the manual be provided so we can locate signs and review?

No, this is the 2014 (5th) edition of MUTCDC, which is MUTCD for Canada (not MUTCD).

Providing copies of large portions of the manual will likely violate the copyright.
MUTCDC - 5th Edition is available for purchase at www.tac-atc.ca.



No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

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R.F. BINNIE & ASSOCIATES LTD.
314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CLIENT: **CITY OF WHITE ROCK**
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

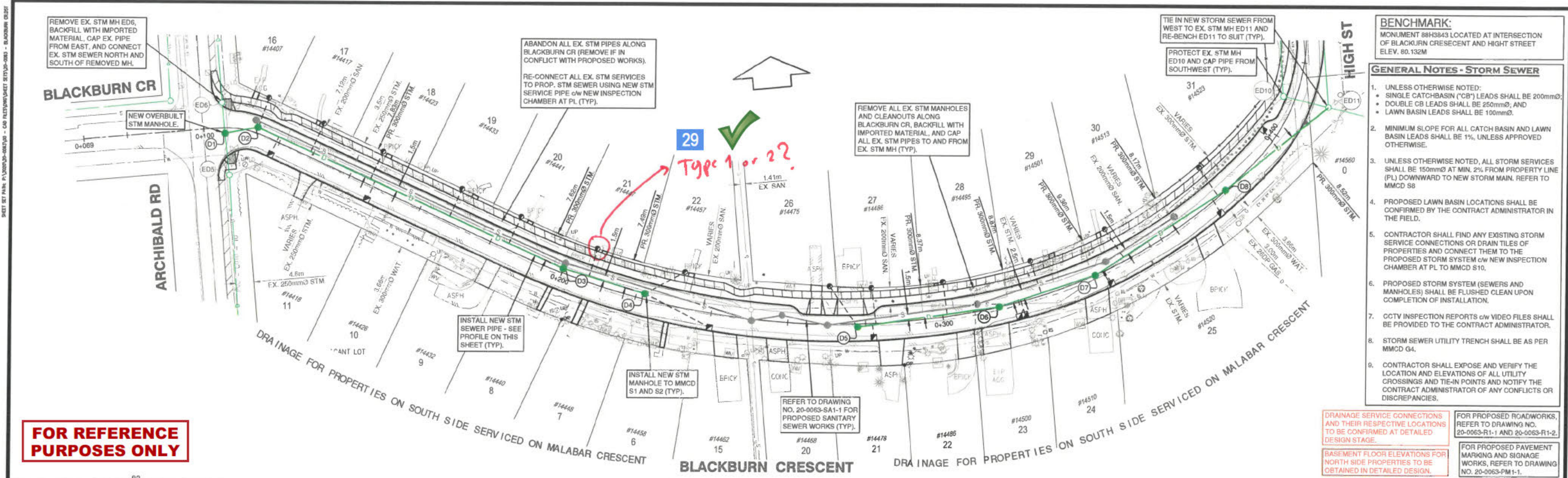
DRAWING DESCRIPTION:
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
PAVEMENT MARKING AND SIGNAGE

SURVEYED BY: TA
DRAWN BY: SV
DESIGNED BY: NM
CHECKED BY: RA

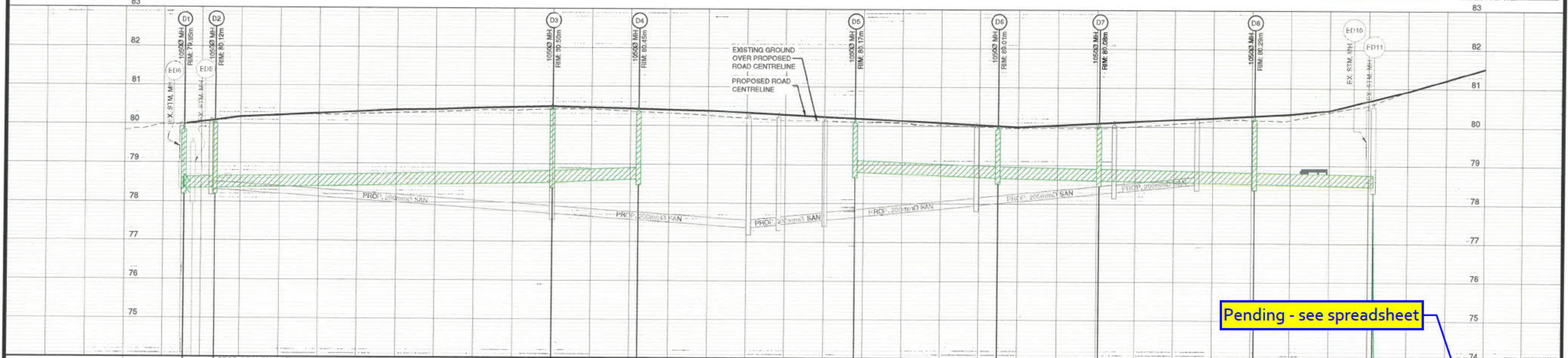
SCALES: 1:500

DATE: 2020-05-08
DRAWING No.: 20-0063-PM1-1
SHEET 04 OF 10
REV. 1

DRAFT



FOR REFERENCE PURPOSES ONLY



Pending - see spreadsheet

30
Can grade be increased?

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

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314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
**BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
STORM SEWER**

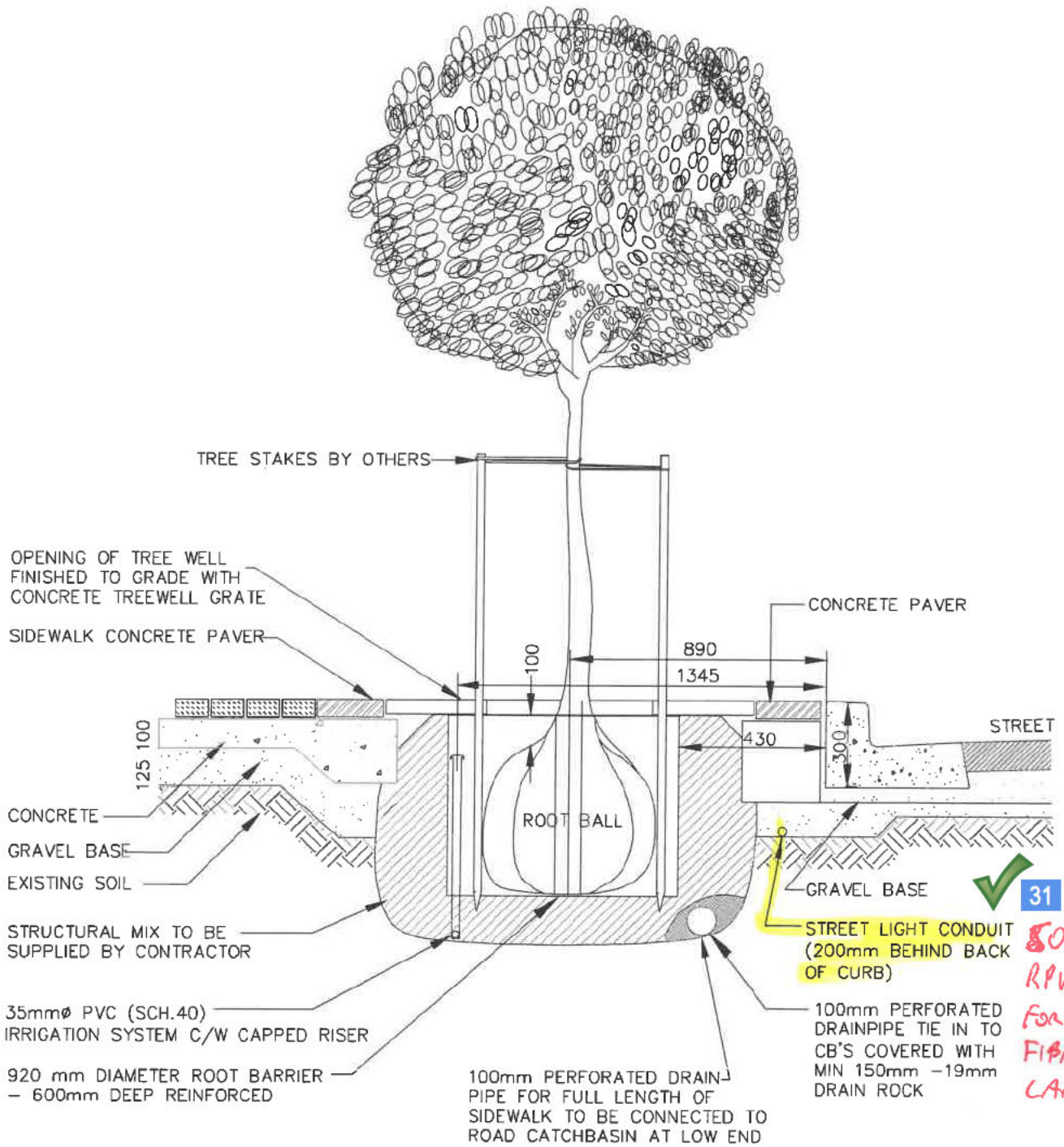
SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
H 1:500 20m
V 1:50 2m

DATE 2020-01-28
DRAWING No.
20-0063-ST1-1
SHEET 06 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

DRAFT

**FOR REFERENCE
PURPOSES ONLY**



31 ✓
80 mm ϕ RPVC FOR CITY FIBER OPTIC CABLE.

DRAWING TITLE:

TREEWELL AT BRICK PAVER

DRAWING NUMBER:

SSDD-R13

Rev # Revision Date

Approved by

All Dimensions In Millimetres Unless Otherwise Noted

SCALE: N.T.S.

DATE: January 2018

City Comments of Design Review
Response Form



R.F. Binnie & Associates Ltd.
Client: City of White Rock
Project: Blackburn Crescent Road and Utilities Improvements

Submission Stage: Preliminary Design
Client Reference No.: N/A
Binnie Project No.: 20-0063
Client Comments Date: 2020-05-22
Binnie Response Update: 2020-08-18

Code Legend:

	A	Comment Accepted and Action Taken
	B	No Action Taken or Required
	C	Comment to be Discussed/Clarified with City
	D	Comment To Be Resolved in Next Design Phase

Comment No.	Reference Sheet No.	Client / City Comment	Designer Response to / Description of the Client / City Comment	Code	Required Action by Binnie, if any	Action by	Status	EoR Additional Input, if any
1	20-0063-D1-1	Can General Notes sheet be separate from construction Details sheet?	Yes, Binnie will address.	A	Make another sheet and move details to it.	NM	Complete	
2	20-0063-D1-1	[Add] Roadwork Notes [to General Notes sheet].	Binnie will address.	A	Copy general notes from roadworks sheets R1-1 and R1-2 to Notes sheets.	NM	Complete	
3	20-0063-D1-1	[Add] Paving Notes [to General Notes sheet].	Asphalt paving works are per MMCD specifications, and we typically do not provide general notes specifically for paving.	B	None	n/a	Complete	
4	20-0063-D1-1	[Add] Pavement Marking Notes [to General Notes sheet].	Binnie will address.	A	Copy general notes from pavement marking sheets PM1-1 to Notes sheets.	NM	Complete	
5	20-0063-D1-1	[Change max. width shown on residential driveway detail to] 6.0m.	Binnie will make the suggested changes. For City's information, maximum urban residential driveway in MMCD Design Guideline (20154) is 7.5m.	A	Change max. width shown in driveway detail to 6.0m.	NM	Complete	
6	20-0063-D1-1	[Is the 2% slope for driveway crossing shown on Sidewalk 150mm Drop detail not supposed to be] 8%?	Sidewalk drop is to allow uniform 2% for the two driveway crossings.	B	None	n/a	Complete	
7	20-0063-R1-1	Why the [proposed] SW is not straight at several locations?	There is two locations where proposed sidewalk is meandered. One is near Station 0+120 to mitigate impact on tree roots, and the other is near Station 0+245 to avoid existing pole. The latter can change to a locally widened sidewalk per MMCD C3 (also see response to Comment #14).	B	None	n/a	Complete	
8	20-0063-R1-1	[Add the following with callout note to the scope of work] 1x50mm RPVC c/w Pull String in all Conduits [on south side of Blackburn Crescent behind proposed curb.	Binnie will address.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
9	20-0063-R1-1	[Add the following two with callout notes to the scope of work behind both sidewalk ramps at intersection with Archibald Road] Proposed 5686 JB Marked Lid with "COMMS" for Future City Fibre Optic Cable.	Binnie will address.	A	Create new sheet for fibre optic JB works and complete the design as per City comments.	NM	Complete	
10	20-0063-R1-1	[Add the following to the callout note for property #14432 asphalt driveway]: (4.5 - 6.0) [m]	Driveway widths are annotated and shown on plan.	B	None	n/a	Complete	
11	20-0063-R1-1	[Specify a typical] LB lead size.	Lawn basin lead sizes are specified in General Note #4 on this sheet, as well as in the storm sewer general notes.	B	None	n/a	Complete	
12	20-0063-R1-1 20-0063-R1-2	For properties #14417, #14441, #14475, #14485, #14513 and #14523 on the north side, water services to be upsized to 38mm dia. per City standard.	Binnie will add separate sheet for water service upgrades to 38mm diameter.	A	Create new sheet for water service upgrades and complete water service upgrade design as per City comments. Add notes and details as required.	NM	Complete	
13	20-0063-R1-1	[For properties #14475 and #14485] DW to be (4.5 - 6)m through City boulevard.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change all driveways on south and north side to be within the minimum and maximum limits specified by the City.	NM	Complete	
14	20-0063-R1-1	[For the proposed meandering sidewalk around existing pole] how about [MMCD C3] than meandering?	Ok, Binnie will change the proposed curved meandered sidewalk to a locally widened sidewalk per MMCD C2 / C3.	A	Change the proposed curved meandered sidewalk to a locally widened sidewalk per MMCD C2 / C3.	NM	Complete	
15	20-0063-R1-1	[On typical sections, change subbase "select" type to] crush[ed] gravel.	Binnie will change subbase type to "crushed".	A	Change "SELECT" to "CRUSHDED" in item 3 of typical sections in both roadwork sheets.	NM	Complete	
16	20-0063-R1-2	Affected boulevard [on the south side] to be restored to 150mm topsoil and sod.	Are all privately-owned structures within the entire City boulevard (RoW) to be removed and restored with topsoil and sod? There are several existing improvements by private properties within City RoW that will be impacted is the entire public RoW (boulevard) is to be cleared. Does the City wish to proceed with replacing the entire boulevard with top soil and sod, or limit the restoration only to proposed embankment daylight line?	C	Pending further directions or clarifications by the City	MH, City	Pending	Typically, only disturbed areas are restored. Sod can be less expensive in the long term as it requires less maintenance than hydroseed.
17	20-0063-R1-2	[Should the proposed brick paver driveway within City RoW that matches existing driveway be] restored with concrete?	Does the City prefer to restore all driveways within City RoW with asphalt or concrete ONLY, regardless of other types of existing driveways such as pavers?	C	Pending further directions or clarifications by the City	MH, City	Pending	

City Comments of Design Review
Response Form



R.F. Binnie & Associates Ltd.
Client: City of White Rock
Project: Blackburn Crescent Road and Utilities Improvements

Submission Stage: Preliminary Design
Client Reference No.: N/A
Binnie Project No.: 20-0063
Client Comments Date: 2020-05-22
Binnie Response Update: 2020-08-18

Code Legend:

	A	Comment Accepted and Action Taken
	B	No Action Taken or Required
	C	Comment to be Discussed/Clarified with City
	D	Comment To Be Resolved in Next Design Phase

Comment No.	Reference Sheet No.	Client / City Comment	Designer Response to / Description of the Client / City Comment	Code	Required Action by Binnie, if any	Action by	Status	EoR Additional Input, if any
18	20-0063-R1-2	[Add the following with callout note to the scope of work] 1x50mm RPVC c/w Pull String in all Conduits [on east side of High Street behind proposed curb.	Binnie will add separate sheet for fibre optic conduit works.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
19	20-0063-R1-2	[Add the following with callout note to the scope of work behind property #1450's proposed asphalt driveway] Proposed 5686 JB Marked Lid with "COMMS" for Future City Fibre Optic Cable	Binnie will add separate sheet for fibre optic conduit works.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
20	20-0063-R1-2	[Show] dimensions and details of asphalt ramps on High Street.	Binnie will add this detail as part of efforts for Detailed Design stage.	A	Add asphalt ramp details with dimensions.	NM	Complete	
21	20-0063-R1-2	Why [is there] two types of asphalt curbs?	There is only one type of asphalt curb. The Style 1 interim curb is a concrete curb.	B	None	n/a	Complete	Style 1 concrete curb has an adjacent sidewalk behind which the curb helps to delineate the pedestrian from the vehicle.
22	20-0063-PM1-1	MUTCD Fig 2A-3 [requires STOP sign to have a horizontal distance of] 6 ft min. from road edge.	Binnie recommends use of MUTCDC (the MUTCD for Canada) as opposed to MUTCD (which is for the U.S.). Figure A2-1 of MUTCDC shows min 0.3m to max 2.0m between edge of STOP sign and edge of road (curb barrier) in urban districts	B	None	n/a	Complete	
23	20-0063-PM1-1	[For property 14475, change to a driveway of] min. 4.5m wide letdown.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change driveway width to 4.5m for property #14475.	NM	Complete	
24	20-0063-PM1-1	[For property 14486, change to a driveway of] max. 6.0m wide letdown.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change driveway width to 6.0m for property #14486.	NM	Complete	
25	20-0063-PM1-1	All driveways [to be] min 4.5m - [max] 6.0m even pavers and asphalt.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change all driveways on south and north side to be within the minimum and maximum limits specified by the City.	NM	Complete	
26	20-0063-PM1-1	Is this [reference that is mentioned in the Key Notes] 2009th edition? I cannot find these signs there. Can part and section of the manual be provided so we can locate signs and review?	No, this is the 2014 (5th) edition of MUTCDC, which is MUTCD for Canada (not MUTCD). Providing copies of large portions of the manual will likely violate the copyright. MUTCDC - 5th Edition is available for purchase at www.tac-atc.ca	B	None	n/a	Complete	
27	20-0063-SA1-1	Can [the sanitary manhole] S4 be eliminated? MH @ 250m for 900mm dia. and larger if possible.	Yes, Binnie has changed the sanitary sewer alignment and design to include open cut segment and bursting segments, and S4 is eliminated now.	A	Revise sanitary sewer alignment and eliminate S4.	NM	Complete	
28	20-0063-SA1-1	Show [sanitary] services on northside?	Binnie will address.	C	Add proposed sanitary services.	NM	Complete	
29	20-0063-ST1-1	[Are the lawn basins] Type 1 or 2?	Lawn basin types are Type 1 and specified on roadworks drawings. Binnie will add additional note to specify.	A	Add additional construction note for proposed lawn basins.	NM	Complete	
30	20-0063-ST1-1	Can [pipe] grades be increased?	Yes, but not without extending scope and not without additional costs. Based on tie-in elevations at both ends, current pipe grades are maximum possible to retain minimum cover above pipe and tie in to existing storm sewer within the project scope. Pipe grades may be possible to increase if the downstream tie-ins at both ends are extended further beyond Blackburn Crescent, which will have cost implications as well as potentially causing issues for servicing existing basements. Does the City still prefer increasing the pipe grades?	C	Pending further directions or clarifications by the City	MH, City	Pending	
31	SSDD-R13	50mm Dia. RPVC for City's future fibre optic cables (south side), and 100mm Dia. RPVC or City's future streetlighting cables (north side)	Details for proposed conduits.	A	Add conduit trench detail.	NM	Complete	

Debbie Johnstone

From: Dustin Abt
Sent: April 28, 2020 11:39 AM
To: Michael Hill; Rosaline Choy
Cc: Hiep Lo; Nazeer Mojaab; Richard Ahrend
Subject: RE: Blackburn south driveways

Hi Mike,

Without talking with Rosaline, I feel the steepness is not good.

We may have to look at your alternative, but please wait to hear from the City Engineer first.

Dustin

From: Michael Hill <MHill@binnie.com>
Sent: Tuesday, April 28, 2020 9:23 AM
To: Dustin Abt <DAbt@whiterockcity.ca>; Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Nazeer Mojaab <NMojaab@binnie.com>; Richard Ahrend <RAhrend@binnie.com>
Subject: Blackburn south driveways

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Rosaline, Dustin,

Just a clarification on what you would like to see for the Blackburn driveways to the south. If we go with the ultimate template of 2% up from gutter for 2m then down (10-15%) to existing driveway, we have some steep and major works on those driveways. We also go back a fair ways into private property to meet the existing driveways, particularly on the two or three at the east end.

If we have an interim template of carrying the crossfall of the road down through the driveways, it avoids the steep grades and keeps all work on public property. We would add a few extra CBs to intercept water at the head of the eastern driveways. When the properties are redeveloped, their garages would be placed higher and the driveways reconstructed to the ultimate template.

Let me know what you think.

Thanks,



Michael Hill, AScT, CCA

Project Manager

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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Debbie Johnstone

From: Rosaline Choy
Sent: April 28, 2020 12:52 PM
To: Dustin Abt; Michael Hill
Cc: Hiep Lo; Nazeer Mojaab; Richard Ahrend
Subject: RE: Blackburn south driveways

Hi Michael,

Can we shift the road alignment further north? We need to try our best to preserve the south boulevard for at least 2m.

Thanks,

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Dustin Abt
Sent: April 28, 2020 11:39 AM
To: Michael Hill <MHill@binnie.com>; Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Nazeer Mojaab <NMojaab@binnie.com>; Richard Ahrend <RAhrend@binnie.com>
Subject: RE: Blackburn south driveways

Hi Mike,

Without talking with Rosaline, I feel the steepness is not good.

We may have to look at your alternative, but please wait to hear from the City Engineer first.

Dustin

From: Michael Hill <MHill@binnie.com>
Sent: Tuesday, April 28, 2020 9:23 AM
To: Dustin Abt <DAbt@whiterockcity.ca>; Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Nazeer Mojaab <NMojaab@binnie.com>; Richard Ahrend <RAhrend@binnie.com>
Subject: Blackburn south driveways

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Rosaline, Dustin,

Just a clarification on what you would like to see for the Blackburn driveways to the south. If we go with the ultimate template of 2% up from gutter for 2m then down (10-15%) to existing driveway, we have some steep and major works on those driveways. We also go back a fair ways into private property to meet the existing driveways, particularly on the two or three at the east end.

If we have an interim template of carrying the crossfall of the road down through the driveways, it avoids the steep grades and keeps all work on public property. We would add a few extra CBs to intercept water at the head of the eastern driveways. When the properties are redeveloped, their garages would be placed higher and the driveways reconstructed to the ultimate template.

Let me know what you think.

Thanks,



Michael Hill, ASCT, CCA

Project Manager

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314-9440 202 Street, Langley, BC V1M 4A6

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From: [Michael Hill](#)
To: [Rosaline Choy](#); [Dustin Abt](#)
Cc: [Hiep Lo](#)
Subject: Blackburn Crescent Preliminary Design & Estimate
Date: May 13, 2020 9:20:50 AM
Attachments: [image003.png](#)
[Blackburn Crescent - Preliminary Design Submission \(2020-05-12\).pdf](#)
[Blackburn Crescent - Class C Cost Estimate \(2020-05-12\).pdf](#)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dustin, Rosaline,

Attached is the preliminary design and cost estimate for Blackburn. Please review and comment. Let us know if you'd like to meet to discuss. We won't proceed with further work until we have direction from you.

Thanks,



Michael Hill, ASCT, CCA

Project Manager

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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R.F. Binnie & Associates Ltd.
 CLIENT: City of White Rock
 Project: Blackburn Crescent
 Class C Cost Estimate Based on Preliminary Design Submission

SUMMARY

Client Reference #: n/a
 Binnie Project #: 20-0063
 Date: May 12, 2020
 Estimator: NM
 Checked By: RA
 Estimate Status: Complete

		Estimated Cost	
		Blackburn Cres	
MMCD Division No.	MMCD Division Title	Archibald Rd to High St	
DIV 01	GENERAL REQUIREMENTS	\$	s. 21
DIV 03	CONCRETE	\$	
DIV 31	EARTHWORK	\$	
DIV 32	ROADS AND SITE IMPROVEMENTS	\$	
DIV 33	UTILITIES	\$	
Sub-total Construction Cost*:			
Redacted S. 21			
Engineering Services Fees - Design, Contract Administration and Inspection		s. 21	
		GST** (5%):	
		TOTAL CONSTRUCTION COST***	

Notes:

- * Rounded to nearest \$10,000
- ** Calculated over Sub-total Construction Cost, Contingency (and Engineering Fees, if applicable)
- *** Rounded to nearest \$50,000

Notes/Assumptions:

1. Sanitary and storm alignments on road pavement and allowing clearance for future watermain on road.
2. Excludes allowances for the non-driveway restorations on private properties.
3. Excludes allowance for streetlighting.
4. Excludes allowance for new watermain construction or vertical relocations.
5. Includes sanitary and drainage service connections only for properties on the north side.
6. Excludes special allowances for relocating of privately-built walls in City Right of Way.



R.F. Binnie & Associates Ltd.
 CLIENT: City of White Rock
 Project: Blackburn Crescent
 BULKED Class C Cost Estimate Based on Preliminary Design Submission
 Client Reference #: n/a
 Binnie Project #: 20-0063
 Date: May 12, 2020
 Estimator: NM
 Checked By: RA
 Estimate Status: Complete

					Blackburn Cres Archibald Rd to High St		
					Road & Utilities		
ITEM	DESCRIPTION	UNIT	UNIT PRICE \$	Quantity	AMOUNT \$	Bulk Factor	
DIV 01	GENERAL REQUIREMENTS					1.05	
01 55 00	Traffic Control, Vehicle Access and Parking					1.05	
Add SSP 1.5.1	Traffic Control, Vehicle Access and Parking - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			Redacted S. 21	1.05	
01 57 01	Environmental Protection					1.05	
1.6.1	Erosion and Sediment Control - Blackburn Cres - Archibald Rd to High St	S. 21				1.05	
DIV 03	CONCRETE					1.05	
03 30 20	Concrete Walks, Curbs and Gutters					1.05	
1.4.3	Concrete Barrier Curb & Gutter (MMCD C4)	Redacted S. 21		6.2		1.02	
1.4.3	Concrete Interim Curb (MMCD C6, Style 1)	S. 21	S. 21	6.2		1.05	
Add SSP 1.4.5	Concrete Walk and Ramp (100mm Thick) - To MMCD C1, C2, C8, C9 (Granular Base Paid Under 32 11 23)	S. 21		6.2		1.03	
Add SSP 1.4.5	Concrete Walk and Ramp (150mm Thick) - To MMCD C1, C2, C8, C9 (Granular Base Paid Under 32 11 23)	S. 21		6.2		1.05	
Add SSP 1.4.6	Concrete Driveway Crossing (150mm Thick) - To MMCD C7 (Granular Base Paid Under 32 11 23)	Redacted S. 21		6.2		1.04	
Add SSP 1.4.6	Concrete Driveway (150mm Thick) (Granular Base Paid Under 32 11 23)	Redacted S. 21		6.2		1.10	
Add SSP 1.4.6	Concrete Driveway (Exposed Aggregate, 150mm Thick) (Granular Base Paid Under 32 11 23)	Redacted S. 21		6.2		1.10	
Add SSP SUP	Regrade Existing Brick Driveway (Includes Removal, Regrading including Sand Base, Reinstatement)	Redacted S. 21		6.2		1.10	
DIV 31	EARTHWORK					1.05	
31 11 01	Clearing and Grubbing					1.05	
1.4.1	Clearing and Grubbing (Including Tree Removal) - Archibald Rd to High St	Redacted S. 21				1.05	
31 24 13	Roadway Excavation, Embankment and Compaction					1.05	
Add SSP 1.8.4	Mass Excavation and Removal - Blackburn Cres - Archibald Rd to High St	Redacted S. 21				1.05	
Add SSP 1.8.5	Common Excavation - Off-site Disposal	Redacted S. 21		5.21		1.20	
1.8.7	Embankment Fill - Imported Pit Run	Redacted S. 21		6.2		1.20	
DIV 32	ROADS AND SITE IMPROVEMENTS					1.05	
32 01 16.7	Cold Milling					1.05	
1.5.1	Full Depth Milling	Redacted S. 21				1.10	
32 11 16.1	Granular Sub-Base					1.05	
1.4.2	75mm Select Granular Subbase	Redacted S. 21				1.10	
32 11 23	Granular Base					1.05	
1.4.2	19mm Crushed Granular Base	S. 21		6.21		1.10	
32 12 13.1	Asphalt Tack Coat					1.05	
1.5.1	Asphalt Tack Coat - Emulsified Asphalt	Redacted S. 21				1.10	
32 12 16	Hot-Mix Asphalt Concrete Paving					1.05	
1.5.1	Asphalt Pavement - Lower Course #2 (50mm Thick)	Redacted S. 21				1.10	
1.5.1	Asphalt Pavement - Upper Course #2 (40mm Thick)	Redacted S. 21				1.10	
1.5.3	Asphalt Driveway (65mm Thick, UC#2)	Redacted S. 21				1.10	
1.5.3	Asphalt Walkway and Ramp (50mm Thick, UC#2)	Redacted S. 21				1.10	
1.5.4	Asphalt Extruded Curb (50mm High)	Redacted S. 21				1.10	
32 17 23	Painted Pavement Markings					1.05	
1.5.3	Permanent Thermoplastic Pavement Markings - Blackburn Cres - Archibald Rd to High St	Redacted S. 21				1.05	
1.5.4	Permanent Traffic Control Signs - Blackburn Cres - Archibald Rd to High St	Redacted S. 21				1.05	
32 31 13	Chain Link Fences & Gates					1.05	
1.5.3	Remove & Reinstall Existing Metal Fence (Property #14523)	Redacted S. 21				1.05	
32 91 21	Topsoil and Finish Grading					1.05	
1.4.1	Imported Topsoil (450mm Thick)	Redacted S. 21				1.10	
1.4.1	Imported Topsoil (150mm Thick)	Redacted S. 21				1.25	
32 92 19	Hydraulic Seeding					1.05	
1.8.1	Hydraulic Seeding	Redacted S. 21				1.25	
32 92 20	Sodding					1.05	
1.8.1	Nursery Sod (Without Mesh)	Redacted S. 21				1.10	
DIV 33	UTILITIES					1.05	
33 01 30.1	CCTV Inspection of Pipelines					1.05	
1.6.2	CCTV Inspection of New Storm and Sanitary Mains - Blackburn Cres - Archibald Rd to High St	Redacted S. 21				1.05	
33 30 01	Sanitary Sewers					1.05	
1.6.1	Sanitary Main (PVC, SDR35, 200mm Dia., 1.5-3.0 Depths, Imported Backfill)	Redacted S. 21				1.03	
1.6.3	Sanitary Service Connections (PVC, SDR28, 100mm Dia., All Depths, Imported Backfill) (MMCD S7)	Redacted S. 21				1.10	
1.6.4	Sanitary Inspection Chamber (MMCD S9)	Redacted S. 21				1.05	
33 40 01	Storm Sewers					1.05	
1.6.1	Drainage Pipe (PVC SDR35, 300mm Dia., All Depths, Imported Backfill)	Redacted S. 21				1.03	
1.6.3	Drainage Service Connections (PVC SDR28, 150mm Dia., All Depths, Imported Backfill) (MMCD S8)	Redacted S. 21				1.10	
1.6.4	Drainage Inspection Chamber (MMCD S10)	Redacted S. 21				1.05	
1.6.5	Catchbasin Lead (PVC DR35, 200mm Dia., All Depth, Imported Backfill)	Redacted S. 21				1.05	
1.6.5	Catchbasin Lead (PVC SDR35, 250mm Dia., All Depth, Imported Backfill)	Redacted S. 21				1.05	
1.6.5	Lawn Drain Lead (PVC SDR28, 100mm Dia., All Depth, Imported Backfill)	Redacted S. 21				1.10	
1.6.9	Drainage Tie-in to Existing Storm Sewer - MH ED11	Redacted S. 21				1.05	
33 44 01	Manholes and Catchbasins					1.05	
1.5.1.1	Manhole - Frame, Cover & Bottom (1050mm Dia., All Depth, Imported Backfill) (MMCD S1 & S2)	Redacted S. 21				1.05	
1.5.1.2	Manhole Riser Section (1050mm Dia.)	Redacted S. 21				1.05	
1.5.1.6	Overbuilt Manhole (1050mm Dia.)	Redacted S. 21				1.05	
1.5.2	Single Catchbasin (Concrete Top Inlet, 600mm Dia., All Depth, Imported Backfill)	Redacted S. 21				1.05	
1.5.2	Double Catchbasin (Concrete Top Inlet, 600mm Dia., All Depth, Imported Backfill) c/w Connection Lead	Redacted S. 21				1.05	
1.5.2	Lawn Drain (Concrete, 300mm Dia., All Depth, Native Backfill) (MMCD S12)	Redacted S. 21				1.05	

Redacted S. 21

Redacted S. 21

SHEET SET PATH: P:\2020\20-063\100 - CAP PRELIM\06T SET\20-063 - BLACKBURN.DWG

CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

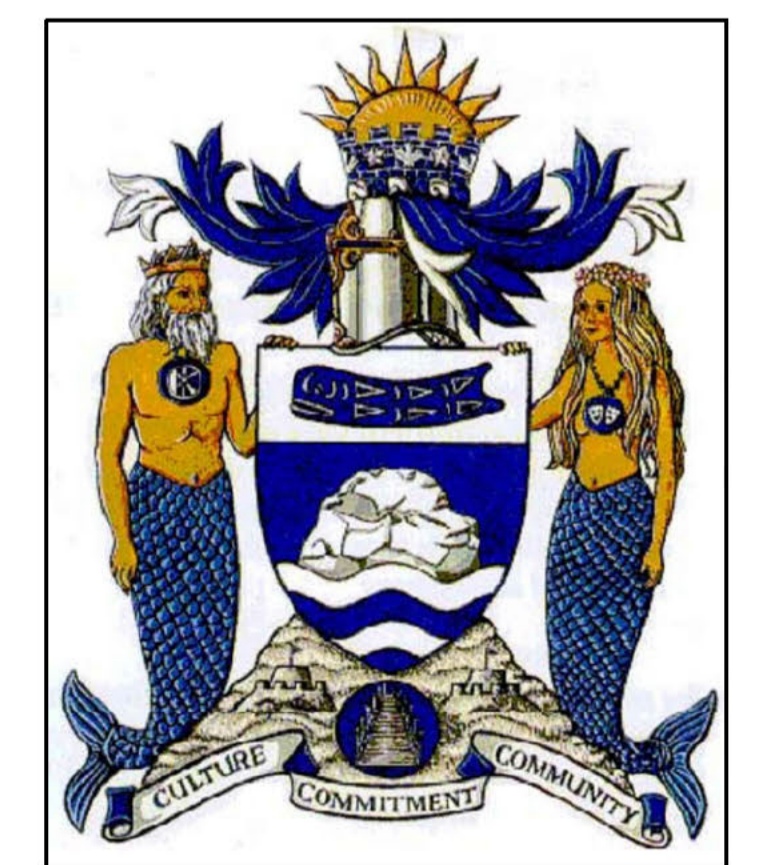
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAVIT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES AND DETAILSSS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D1-1	01
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	03
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	04
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	05
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	06
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	07
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	08
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	10



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GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, AND FORTIS BC PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
- ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
- WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
- OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
- ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
- SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
- THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SANITARY AND STORM SEWER NOTES:

- THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCHLAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
- THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.

- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED
- ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
- ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
- ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
- ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO S2 AND SIZED AS PER MMCD, UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY SEWER SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
- ALL SANITARY SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
- ALL WYES SHALL BE MANUFACTURED.
- THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
- THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PACP" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

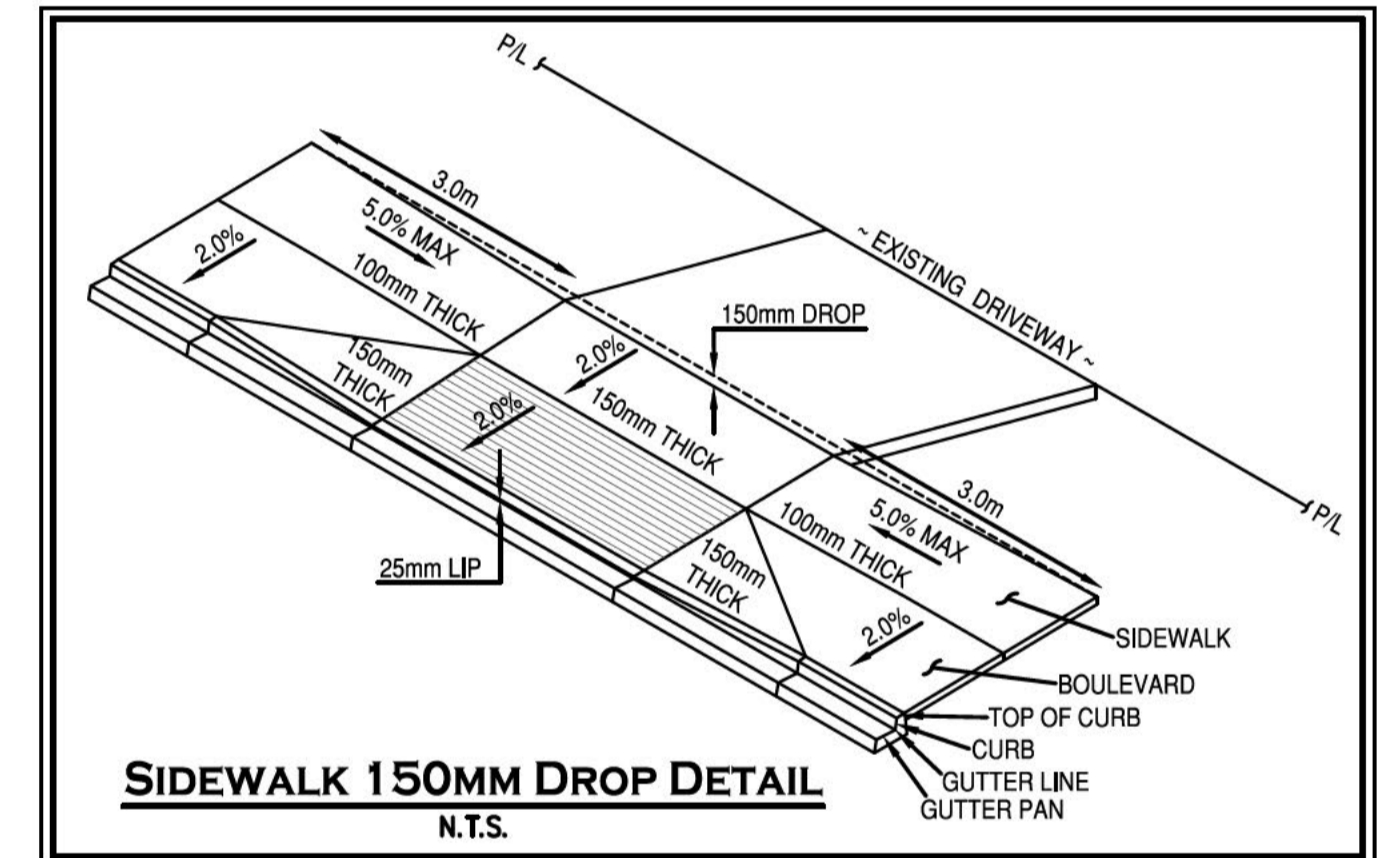
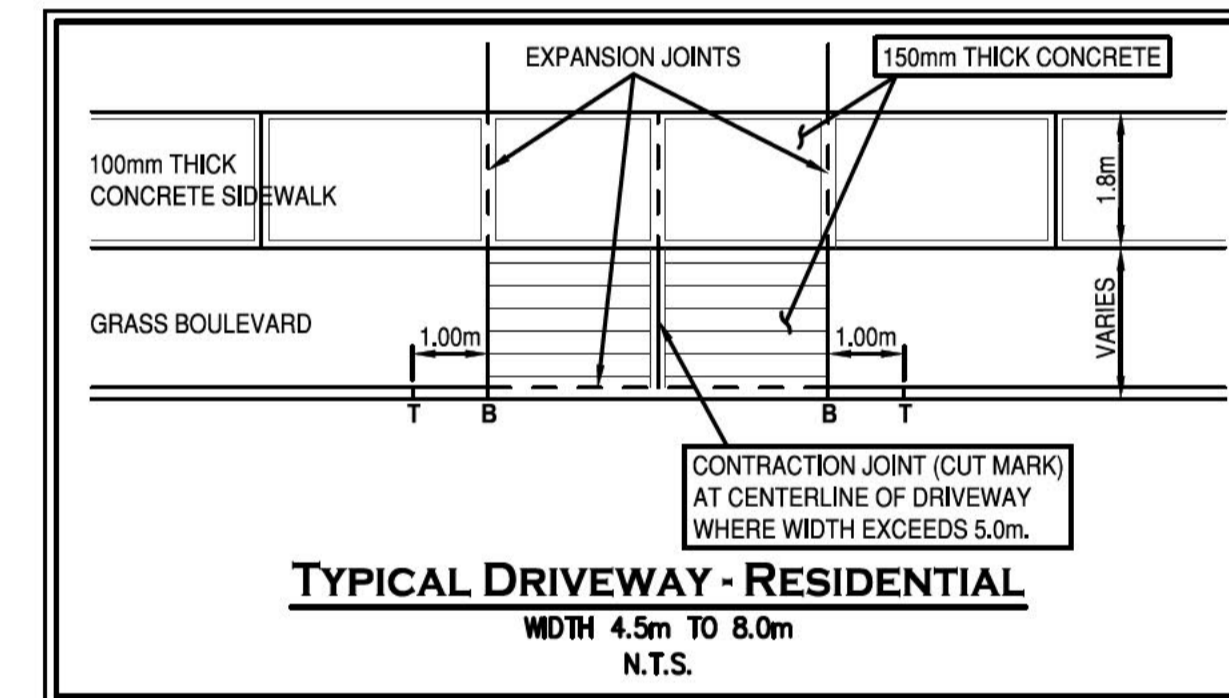
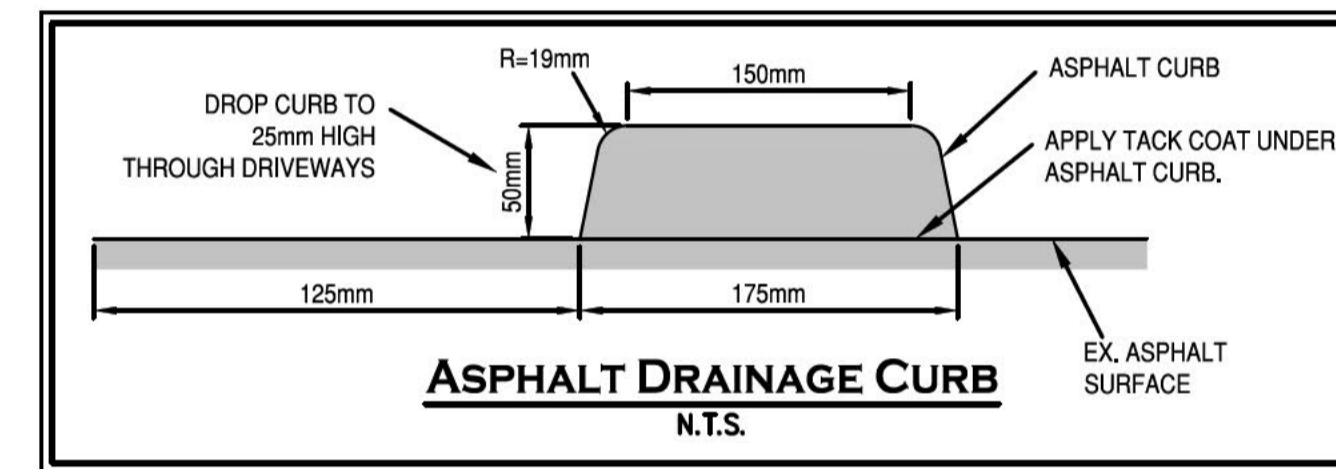
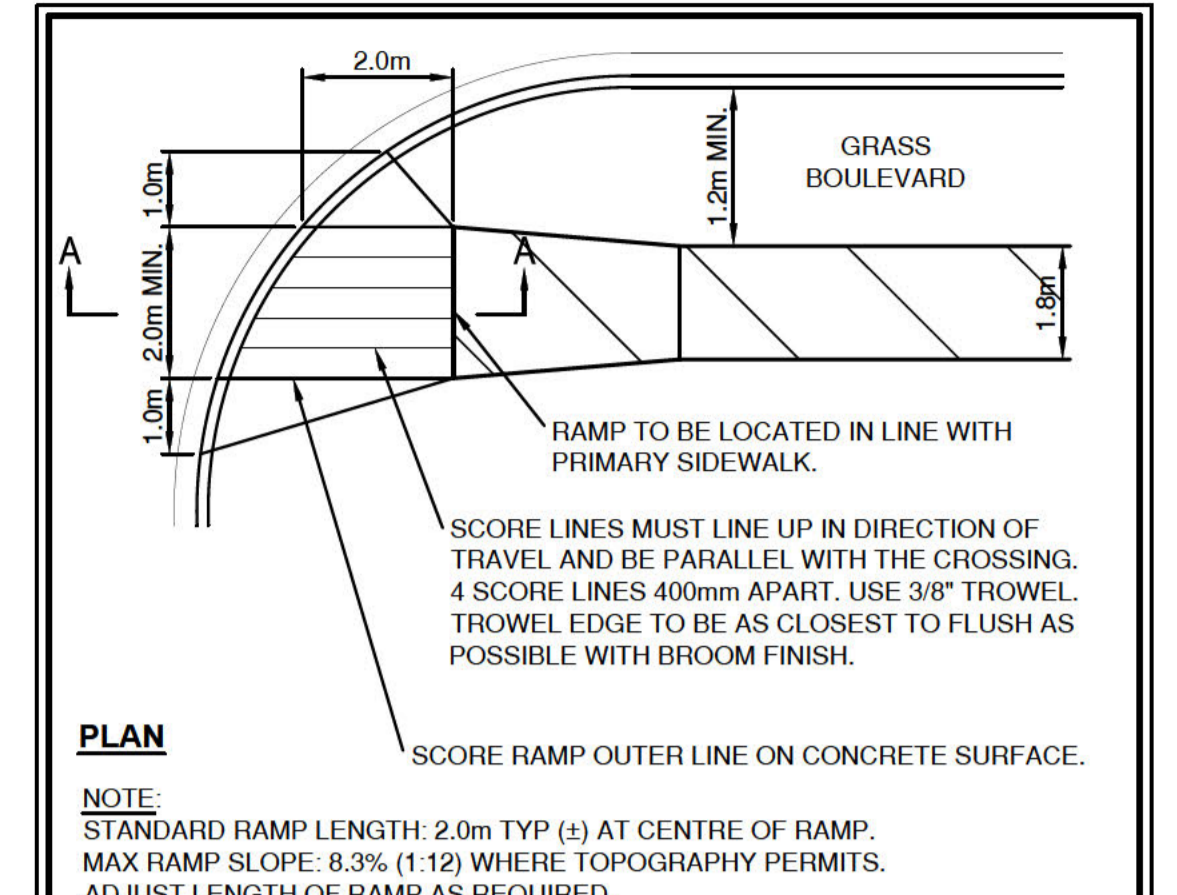
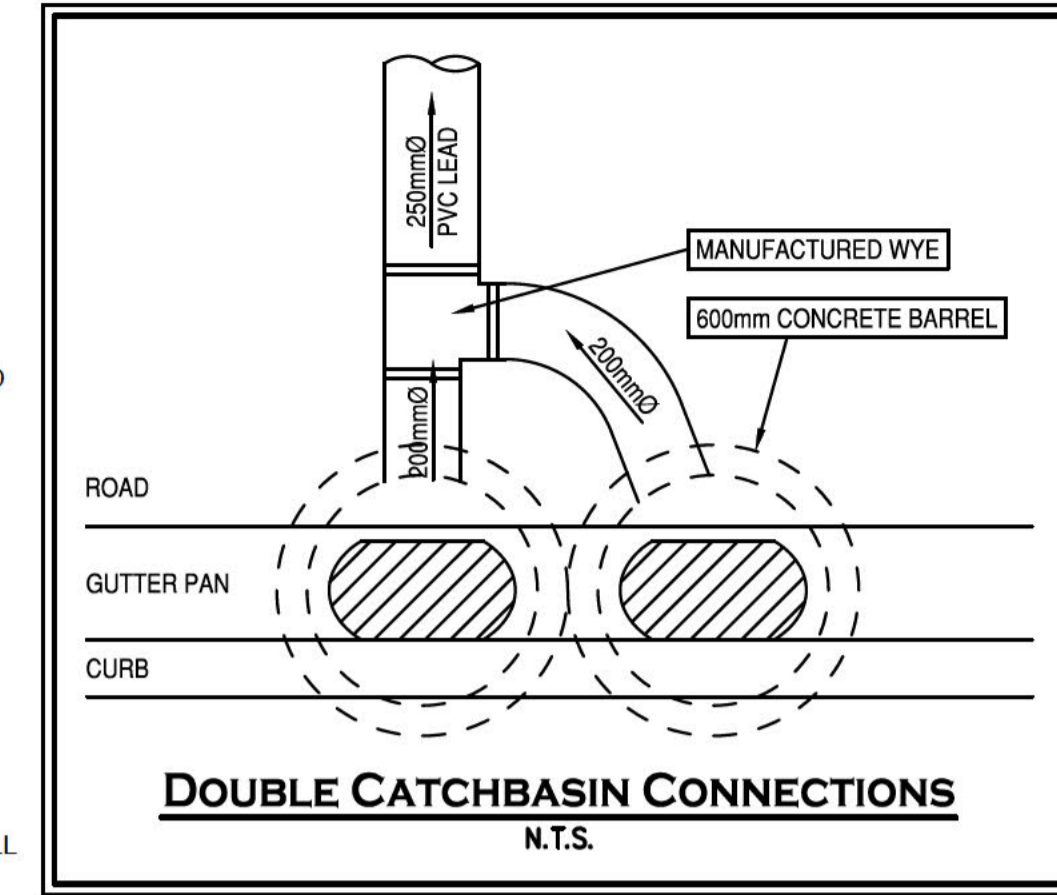
- THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATERS BODIES.
- STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
- THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.

RESTORATION NOTES:

- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
- THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
- ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
- THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
- ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

- THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP IN RED COLOUR AND UPDATED ON A DAILY BASIS TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
- THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER "RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS"; AND
 - A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER "RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS".



SUMMARY OF MATERIAL TESTING FREQUENCY

MATERIAL	MMCD REFERENCE	TESTING FREQUENCY
CONCRETE CURB AND SIDEWALK	03 30 53 - 1.6.2	1 PER 10m ³ MIN. 1 PER DAY PER SITE LOCATION
SIEVE ANALYSIS AND PROCTORS	31 05 17 - 1.5.2	1 PRIOR TO COMMENCING WORK 1 EVERY 1,000 TONNES
TRENCH (DENSITIES)	31 23 01 - 3.5.4.4	1 PER 50 LINEAL METRE PER 600mm THICK LIFT
ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION (DENSITIES)	31 24 13 - 3.5.7	1 PER 250m ² PER 300mm THICK LIFT
GRANULAR SUBBASE (DENSITIES)	32 11 16.1 - 3.3.6	1 PER 150m ² OF MATERIAL PLACED PER 150mm THICK LIFT
GRANULAR BASE (DENSITIES)	32 11 23 - 3.3.6	1 PER 150m ² OF MATERIAL PLACED PER 150mm THICK LIFT PROOF ROLL PRIOR TO PAVING AND PLACEMENT OF CONCRETE CURB AND SIDEWALKS
HOT-MIX ASPHALT (CONVENTIONAL)	32 12 16 - 1.6.3-9	1 TEST PER EACH ASPHALT TYPE MIN. 1 PER DAY PER SITE LOCATION
TOPSOIL	32 91 21 - 1.5.2	1 PRIOR TO COMMENCING WORK

DRAFT

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This drawing is not to be used for construction unless it is stamped "ISSUED FOR CONSTRUCTION" and signed by R.F. Binnie & Associates Ltd. It is the contractor's responsibility to ensure that he is in possession of the latest revision of this drawing.			
No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



R.F. BINNIE & ASSOCIATES LTD.
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Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET NOTES AND DETAILSSS

SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	NOT TO SCALE

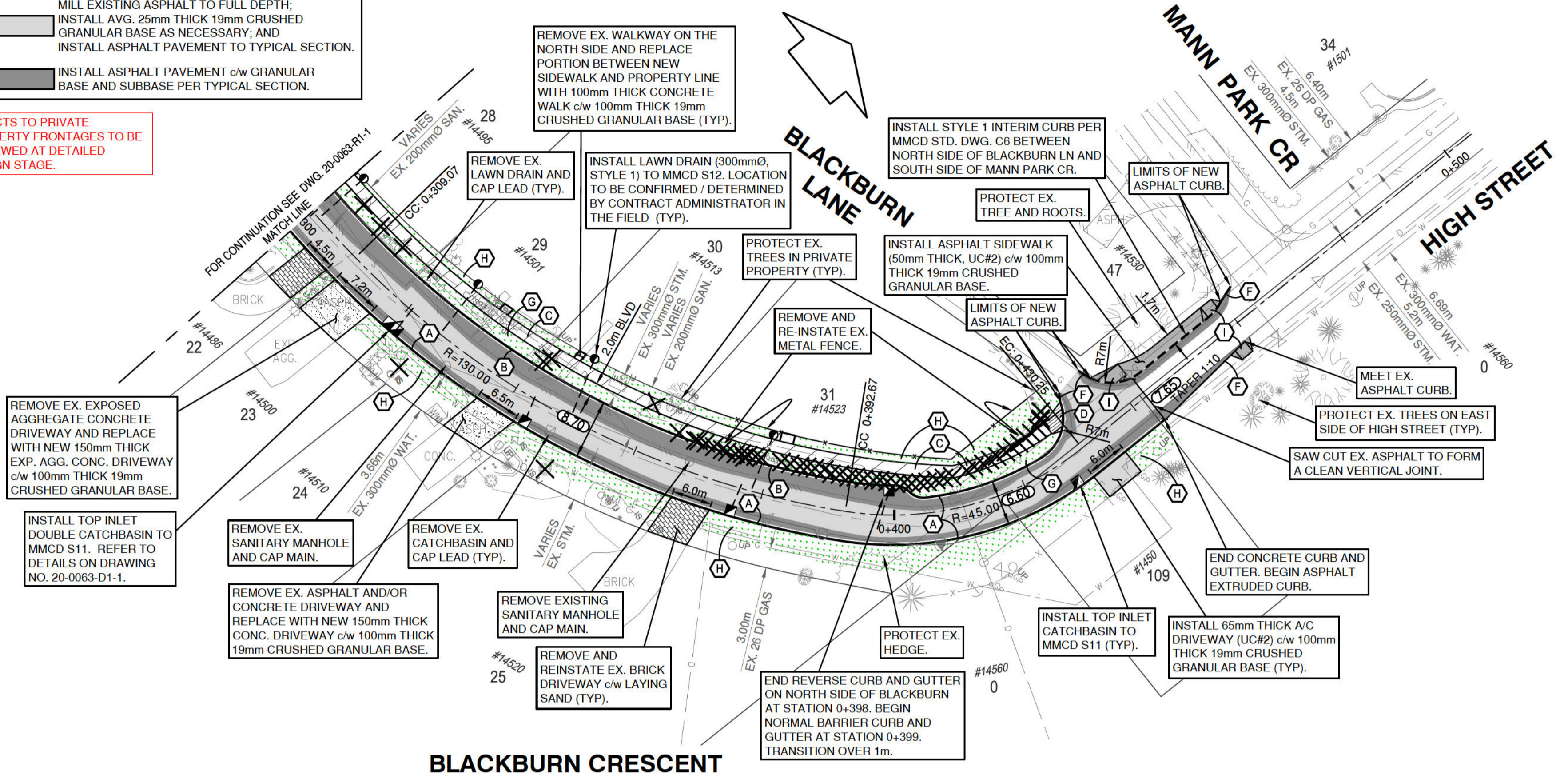
DATE	2020-05-08
DRAWING No.	20-0063-D1-1
SHEET	01 OF 10
REV.	1
DESTROY ALL PRINTS BEARING PREVIOUS No.	

SHEET PATH: P:\2020\0063\001 - CAD REVIEW\001\001-001.dwg - DATE: 2020-05-12 1:09:49 PM FILE: P:\2020\0063\001 - CAD REVIEW\001\001-001.dwg - DATE: 2020-05-12 1:09:49 PM

SHEET SET PLAN: 20-0063-R1-1 - 001 - BLACKBURN CRES. - BANNING DIST.

LEGEND	
	MILL EXISTING ASPHALT TO FULL DEPTH; INSTALL AVG. 25mm THICK 19mm CRUSHED GRANULAR BASE AS NECESSARY, AND INSTALL ASPHALT PAVEMENT TO TYPICAL SECTION.
	INSTALL ASPHALT PAVEMENT c/w GRANULAR BASE AND SUBBASE PER TYPICAL SECTION.

IMPACTS TO PRIVATE PROPERTY FRONTAGES TO BE REVIEWED AT DETAILED DESIGN STAGE.



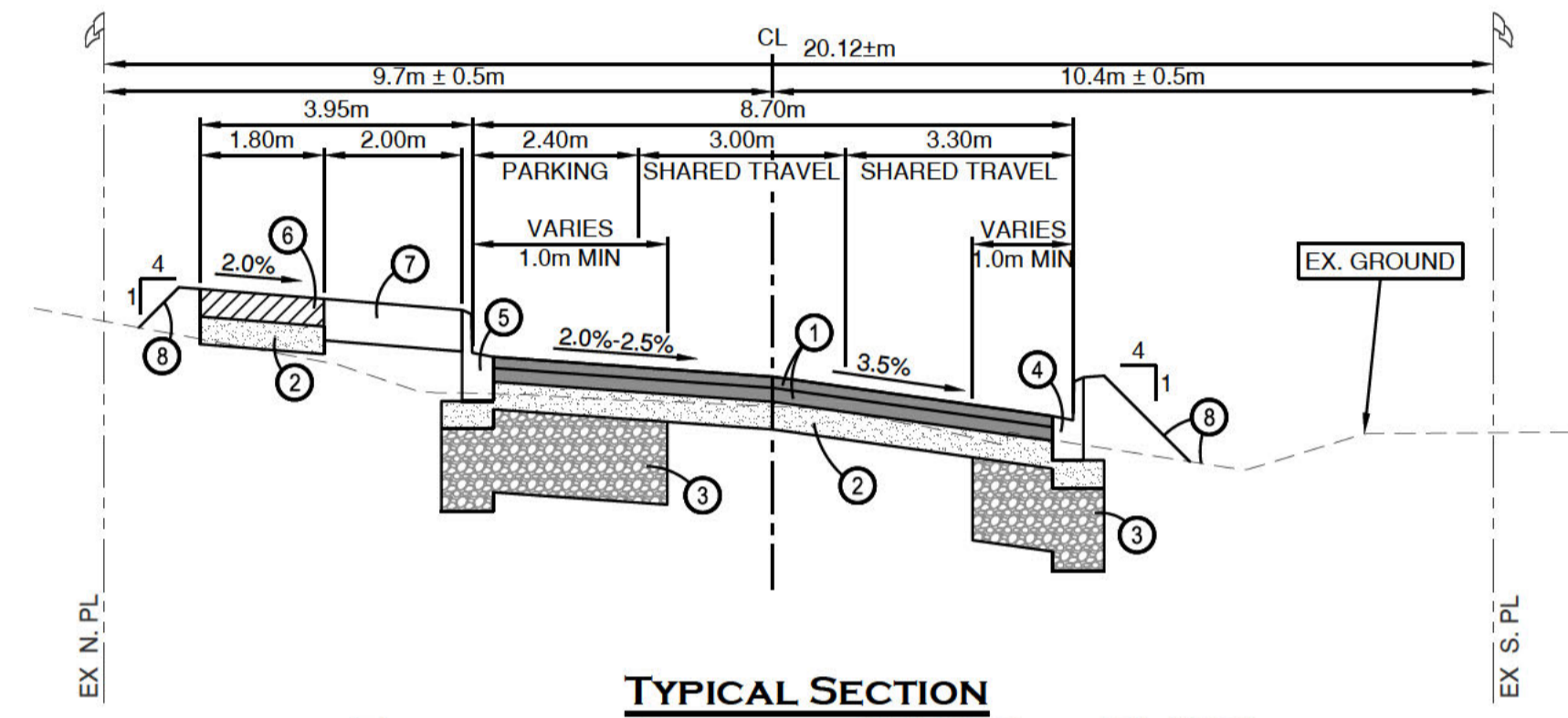
- KEY NOTES**
- (A) INSTALL CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG. C4.
 - (B) INSTALL REVERSE CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG C4.
 - (C) INSTALL 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING) UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG C2.
 - (D) INSTALL 100mm THICK CONCRETE RAMP UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO DETAILS SHOWN ON 20-0063-D1-1.
 - (E) INSTALL 150mm THICK CONCRETE DRIVEWAY CROSSING UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG C7.
 - (F) INSTALL ASPHALT DRAINAGE CURB PER DETAIL ON 20-0063-D1-1.
 - (G) INSTALL 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
 - (H) INSTALL 150mm THICK TOPSOIL AND HYDROSEED.
 - (I) INSTALL 50mm THICK ASPHALT RAMP (UC#2) UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE.

- BENCHMARK:**
MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKURN CRESCENT AND HIGH STREET ELEV. 80.132M
- GENERAL NOTES - ROADWORKS**
1. DURING CONSTRUCTION, TEMPORARILY REMOVE EXISTING SIGNS THAT WOULD BE IMPACTED BY CONSTRUCTION AND REINSTATE THEM AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 2. ADJUST COVERS/LIDS OF ALL EXISTING TO BE RETAINED MANHOLES, WATER VALVES AND GATE VALVES TO SUIT PROPOSED WORKS. UPGRADE EXISTING WATER VALVES TO MR6 VALVE BOXES MARKED "WATER" AS REQUIRED.
 3. REMOVE ALL ABANDONED CATCHBASINS AND FILL VOIDS WITH GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. CAP ABANDONED CONNECTIONS AS REQUIRED.
 4. UNLESS NOTED OTHERWISE, INSTALL NEW SINGLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 200mmØ PVC, NEW DOUBLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 250mmØ PVC, AND NEW LAWN DRAIN/BASIN LEADS AT MINIMUM 1.0% SLOPE USING 100mmØ PVC.
 5. UNLESS OTHERWISE SPECIFIED, REMOVE AND DISPOSE OFF-SITE OF ALL EXISTING, PRIVATELY-OWNED MATERIALS (FENCES, WALLS, LANDSCAPING, SHRUBS, ETC.) WITHIN CITY RIGHT-OF-WAY.
 6. REVIEW DRIVEWAY PROFILES IN CROSS-SECTIONS AND CONFIRM TIE-IN LIMITS AND GRADES BEFORE CONSTRUCTING DRIVEWAYS.
- ✕ REMOVE EXISTING TREE

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.

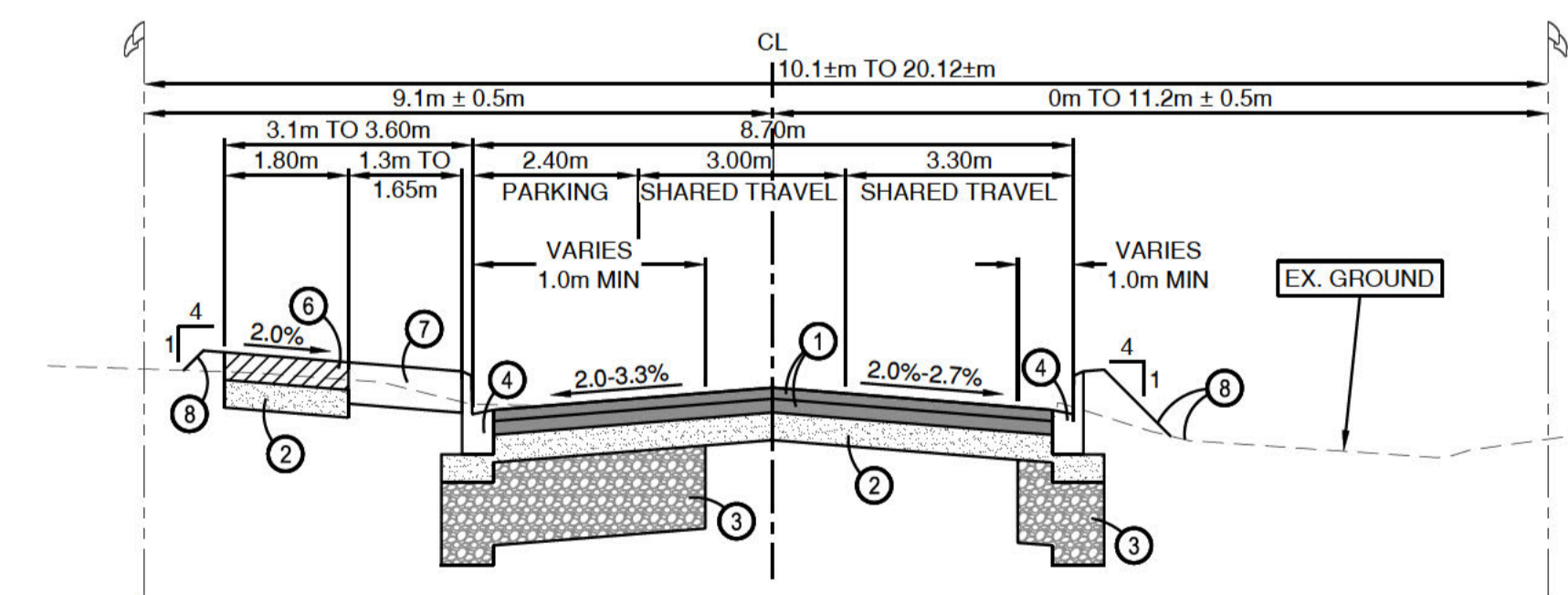
FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.



TYPICAL SECTION
BLACKBURN CRESCENT (0+300 TO 0+400)
SCALE 1:100H 1:25V

- ① 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
 - 40mm THICK UPPER COURSE #2;
 - 50mm THICK LOWER COURSE #2.
- ② 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- ③ 300mm THICK 75mm SELECT GRANULAR SUBBASE COMPACTED TO MIN. 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- ④ CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD DRAWING NO. C4.
- ⑤ REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD MMCD DRAWING NO. C4.
- ⑥ 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING). REFER TO MMCD DRAWING NO. C2.
- ⑦ 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
- ⑧ 150mm THICK TOPSOIL AND HYDROSEED.



TYPICAL SECTION
BLACKBURN CRESCENT (0+400 TO 0+423.76)
SCALE 1:100H 1:25V

STATION	PROP. NORTH/WEST GUTTER ELEV.	PROP. ROAD C/L ELEV.	PROP. SOUTH/EAST GUTTER ELEV.	EX. GRND ELEV. ON PROP. C/L
0+300	80.169	80.082	79.925	80.03
0+310	80.119	80.032	79.875	79.986
0+320	80.069	79.982	79.825	79.96
0+330	80.119	80.032	79.875	79.968
0+340	80.169	80.082	79.925	79.97
0+350	80.219	80.132	79.975	80.010
0+360	80.269	80.182	80.025	80.08
0+370	80.319	80.232	80.075	80.146
0+380	80.369	80.282	80.125	80.17
0+390	80.419	80.332	80.175	80.177
0+400	80.331	80.427	80.331	80.38
0+402.349	80.365	80.427	80.365	80.365
0+404.928	80.458	80.458	80.458	80.562
0+410	80.597	80.676	80.553	80.562
0+420	80.871	80.925	80.826	80.93
0+430	81.165	81.219	81.118	81.226
0+440	81.458	81.512	81.409	81.51
0+450	81.749	81.803	81.692	81.803
0+457.081	81.992	82.146	82.003	82.15
0+459.044				
0+460				82.590
0+480				83.14
0+500				83.726

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CLIENT: CITY OF WHITE ROCK
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DRAWING DESCRIPTION: BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET ROADWORKS

DESIGNED BY: RA
CHECKED BY: RA

SCALE: H 1:500, V 1:50

DATE: 2020-01-28
DRAWING No.: 20-0063-R1-2
SHEET 03 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

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SHEET SET PART: P:\2020\0063\00 - CAR PARKING\0063-0063 - BLACKBURN CREST

BENCHMARK:
MONUMENT 89H3843 LOCATED AT INTERSECTION
OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

GENERAL NOTES - PAVEMENT MARKING

- ALL PAVEMENT MARKING LINES AND SYMBOLS TO BE THERMOPLASTIC.
- PAVEMENT MARKING AND SIGNS TO BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).

KEY NOTES



- (A) INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
- (B) INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
- (C) INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

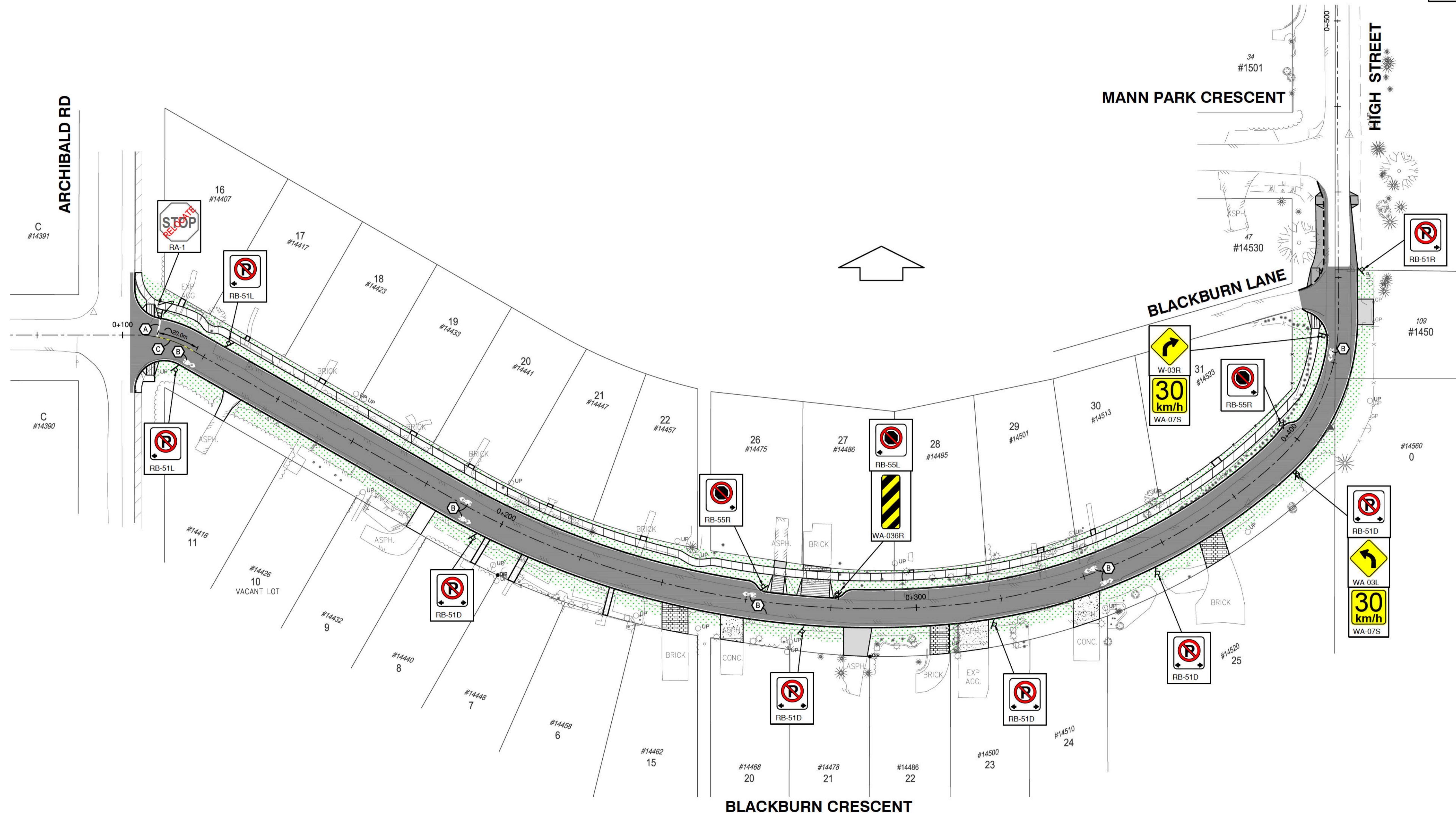
FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

LEGEND

-  EXISTING SIGN - SHOWN IN GRAY ONLY
EXAMPLE
RB-51B
-  PROPOSED SIGN - SHOWN IN COLOUR
EXAMPLE
RB-55B



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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
PAVEMENT MARKING AND SIGNAGE

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
0 1:500 20m

DATE 2020-05-08

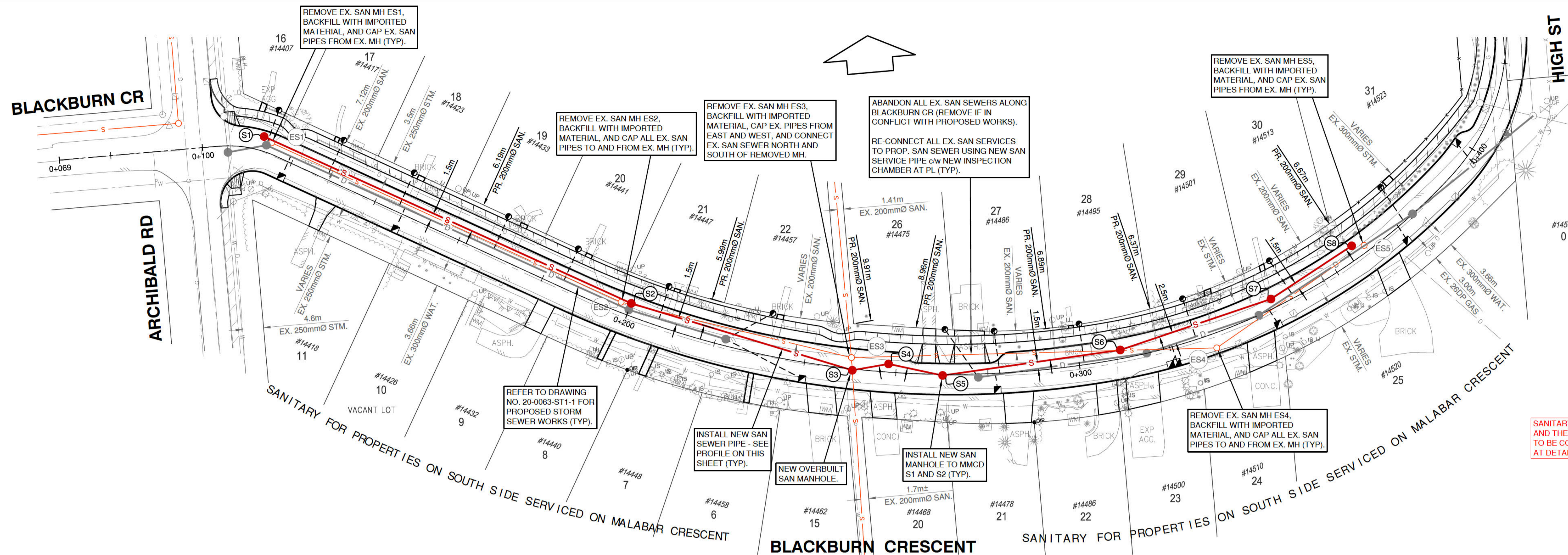
DRAWING No.
20-0063-PM1-1

SHEET 04 OF 10 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

PLOTTED: 2020-05-12 11:35:35 AM USER: NADIA.LAM
FILE: P:\2020\0063\00 - CAR PARKING\0063-0063 - BLACKBURN CREST.dwg

SHEET SET PART 1: 20-0063-R1-01 TO 20-0063-R1-05 - BLACKBURN CREST

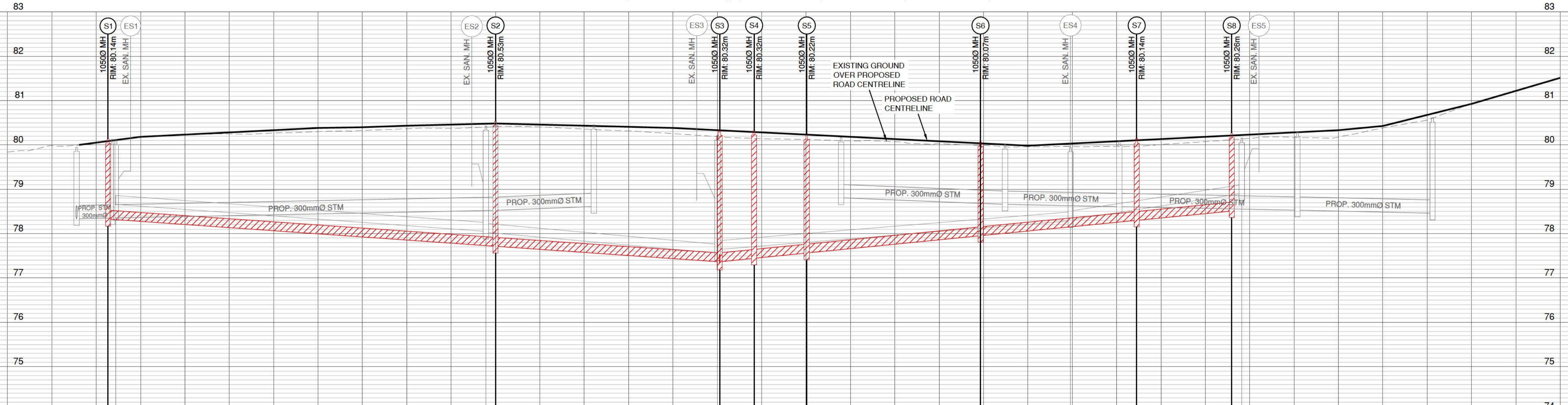


- BENCHMARK:**
MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M
- GENERAL NOTES - SANITARY SEWER**
- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mmØ SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
 - CONTRACTOR SHALL FIND ANY EXISTING SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM c/w NEW INSPECTION CHAMBER AT PL TO MMCD S9.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS c/w VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - SANITARY SEWER UTILITY TRENCHES SHALL BE AS PER MMCD G4.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.

SANITARY SERVICE CONNECTIONS AND THEIR RESPECTIVE LOCATIONS TO BE COMPLETED AND CONFIRMED AT DETAILED DESIGN STAGE.

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE WORKS, REFER TO DRAWING NO. 20-0063-PM1-1.



STATION ALONG BASELINE	PROP. INVERT ELEVATION	EX. INVERT ELEVATION
0+100		
0+112.65 0+114.43	78.327 SE	78.660 SE
0+120		
0+140		
0+160	PROP. 87.60m-200mmØ PVC SDR35 SAN. @ 0.70%	EX. 200Ø SAN.
0+180		
0+197.81 0+200.00	77.714 NW 77.714 E	78.050 NW 78.030 E
0+220		
0+240		
0+250.04 0+250.52	77.963 W 77.333 N 77.363 E	77.560 W 77.540 S 77.640 E 77.650 N
0+258.28 0+260		
0+270.15	77.563 W 77.563 E	77.563 W 77.563 E
0+280		
0+300		
0+309.32 0+320	77.953 W 77.953 E	77.953 W 77.953 E
0+320		
0+320.60 0+344.52	78.299 W 78.299 NE	78.290 W 78.310 NE
0+340		
0+360		
0+365.94 0+365.22	78.509 SW	78.905 SW
0+380		
0+400		
0+420		

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DRAWING DESCRIPTION: **BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS**
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

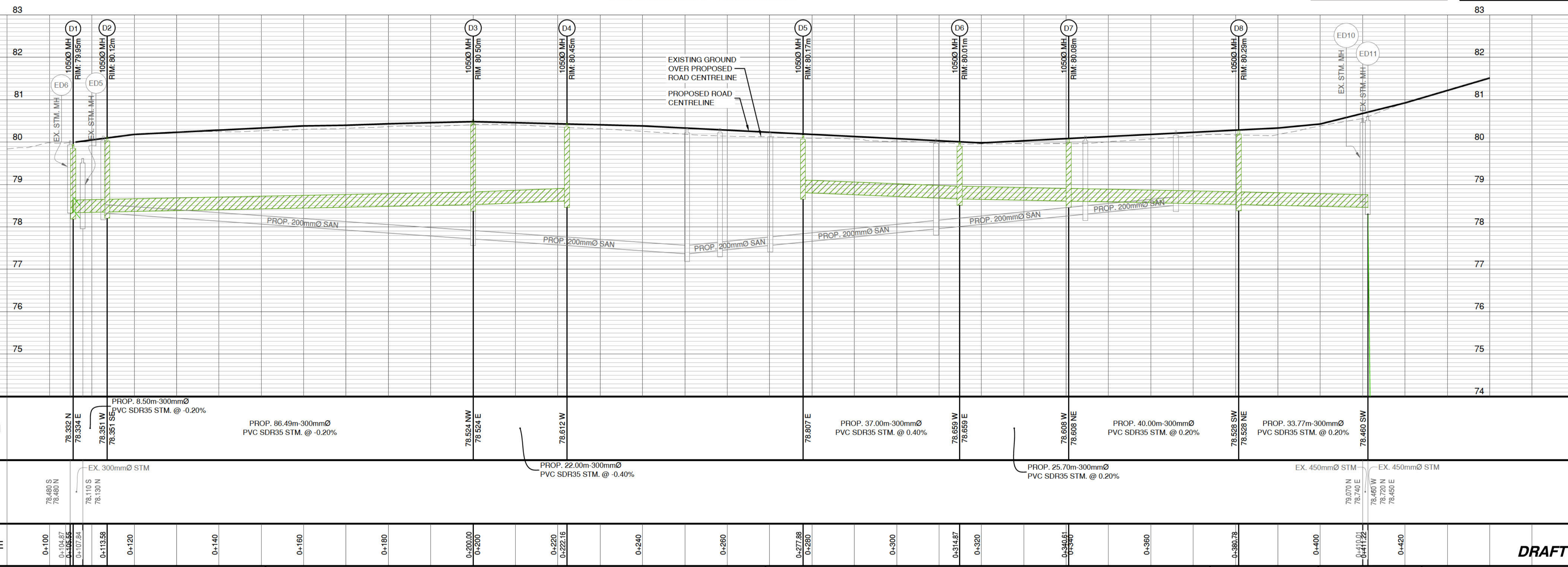
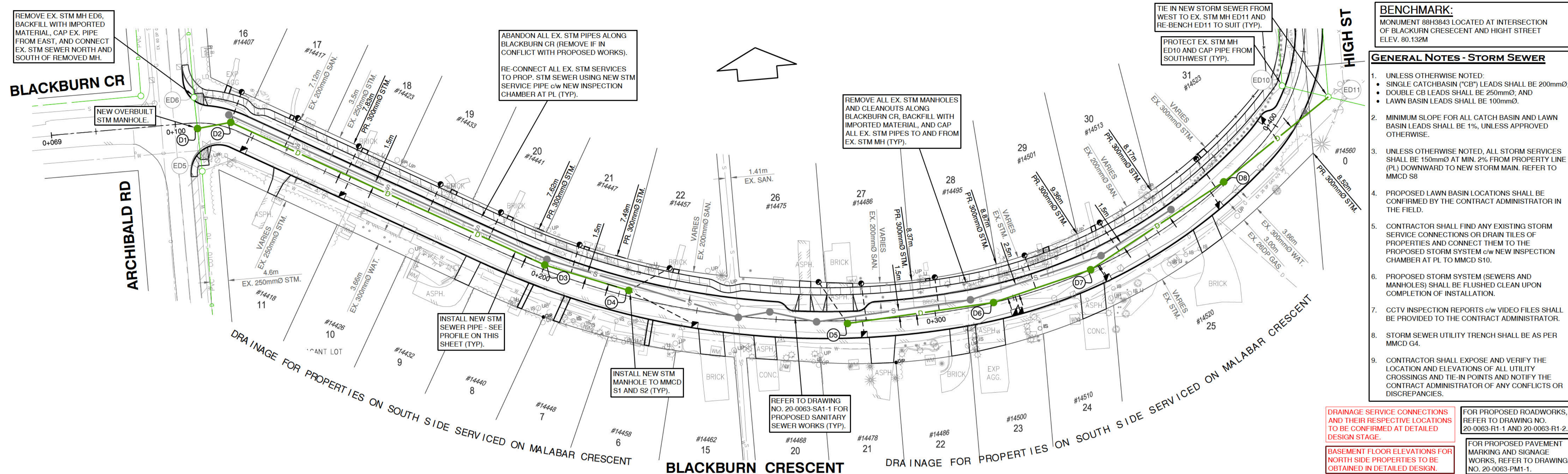
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DRAWN BY: SV
DESIGNED BY: NM
CHECKED BY: RA

SCALES:
H 1:500
V 1:50

DATE: 2020-01-28
DRAWING No.: **20-0063-SA1-1**
SHEET 05 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

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SHEET SET PART 1: 20-0063-ST1-01 TO 06 - SANITARY SEWER WORKS - BLACKBURN CREST



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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
STORM SEWER

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

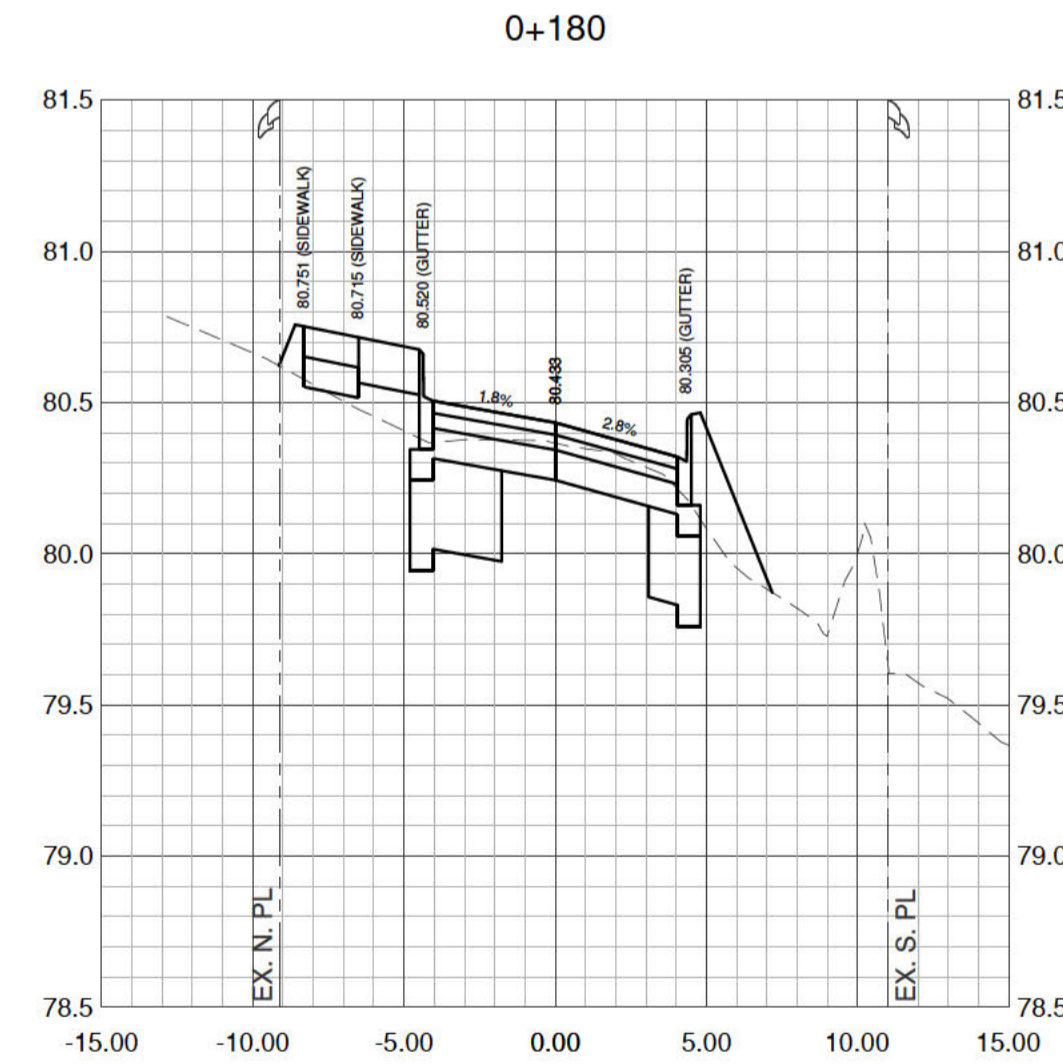
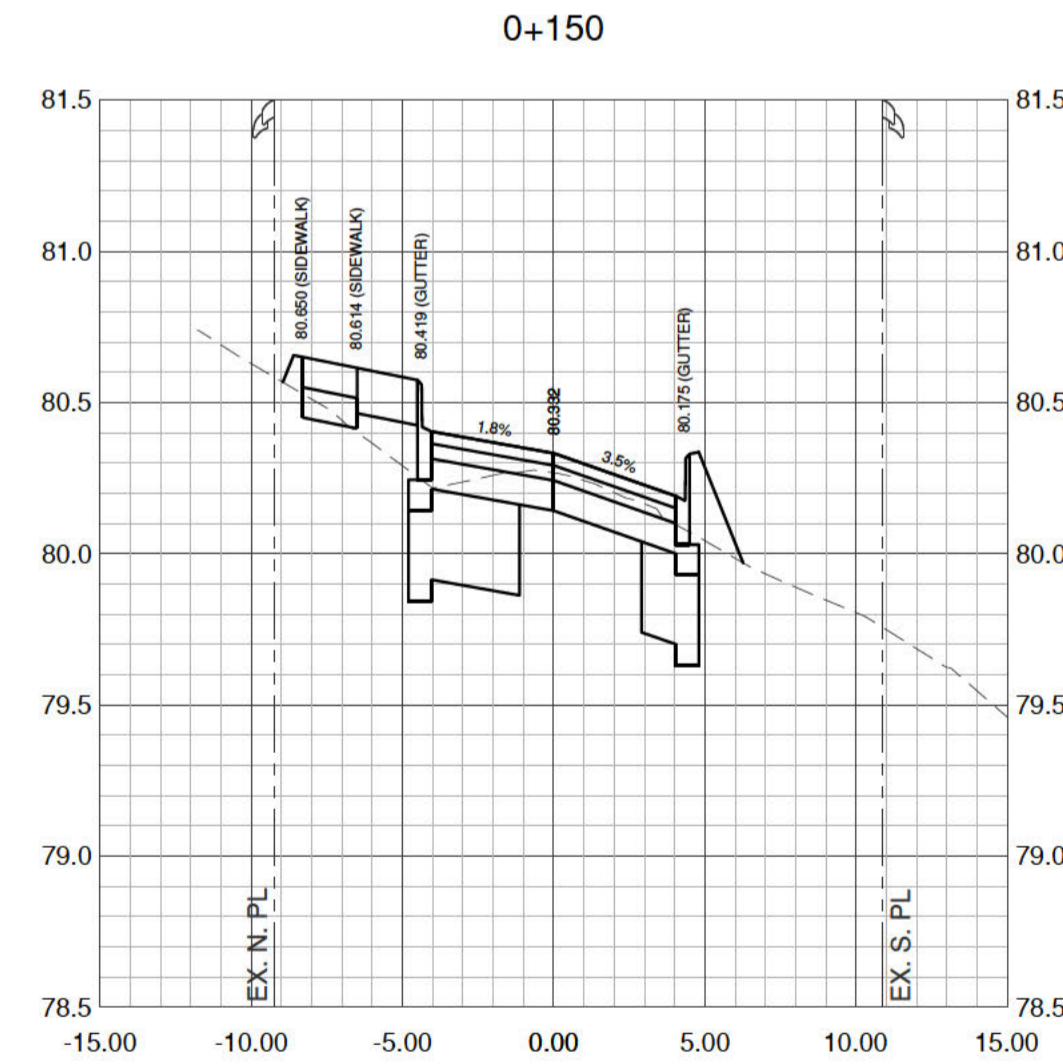
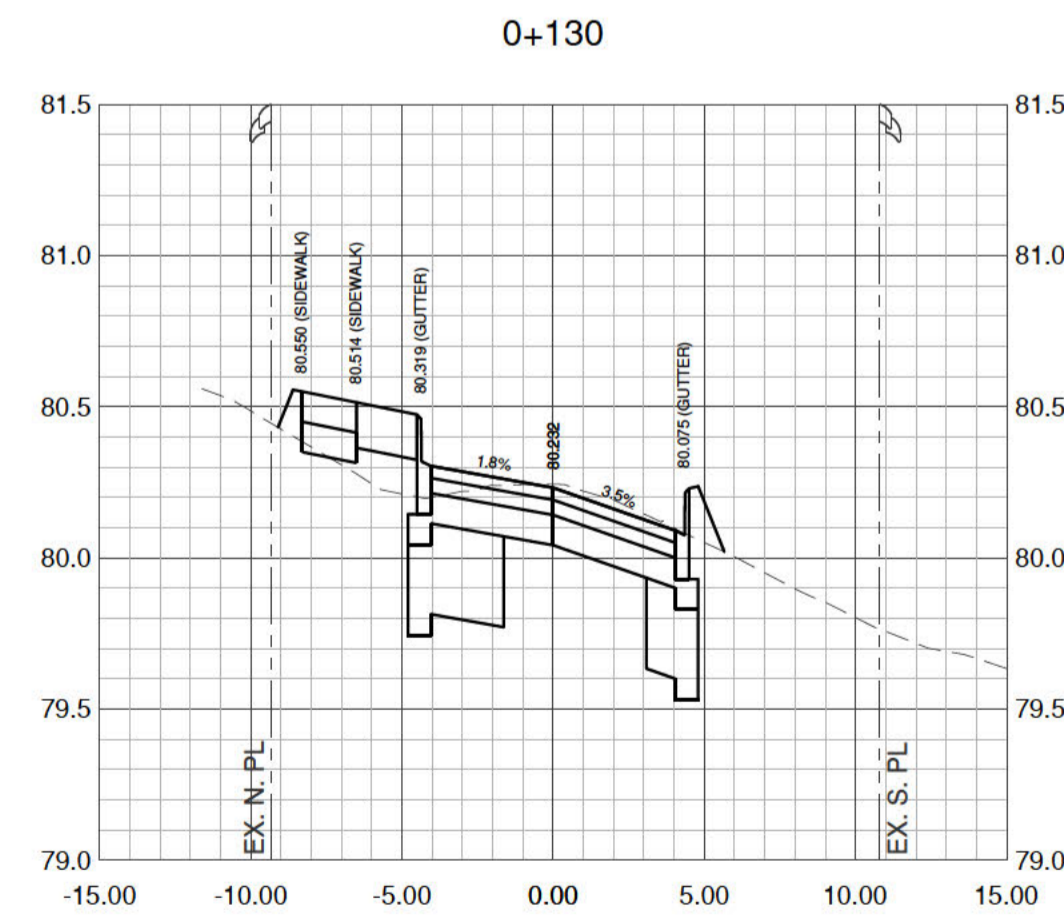
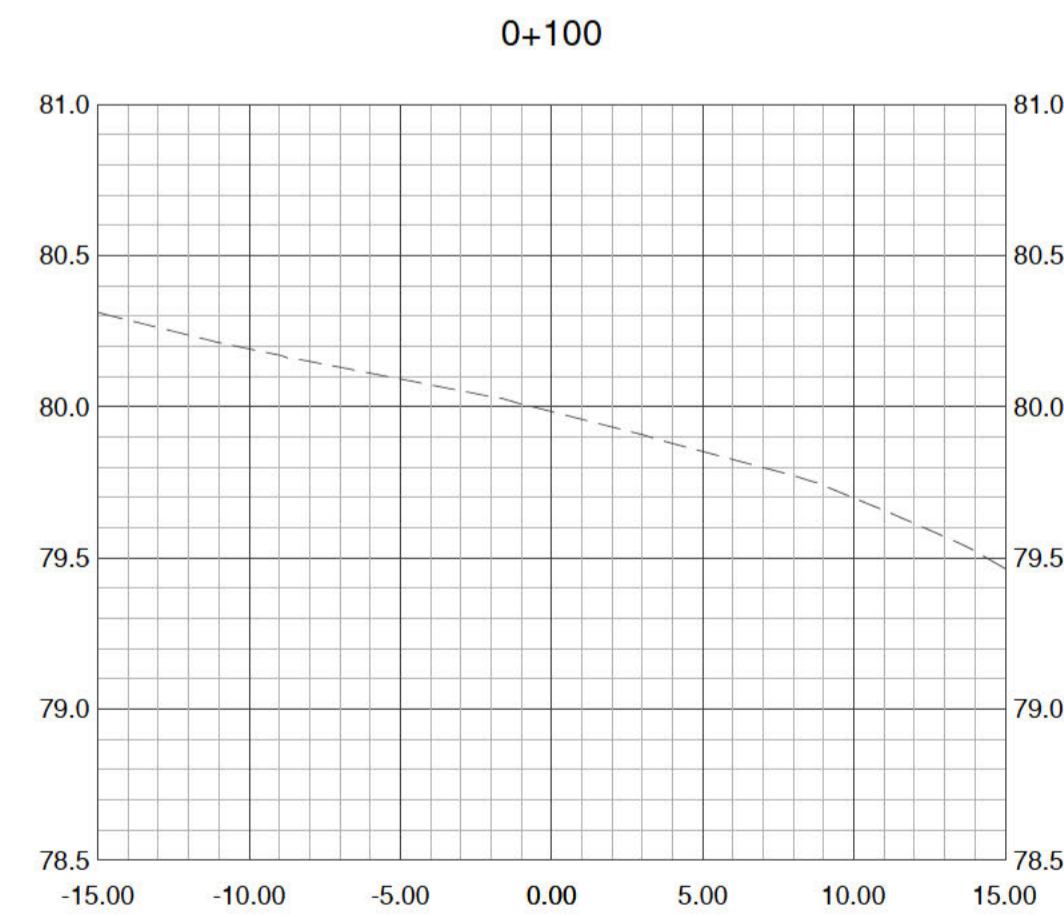
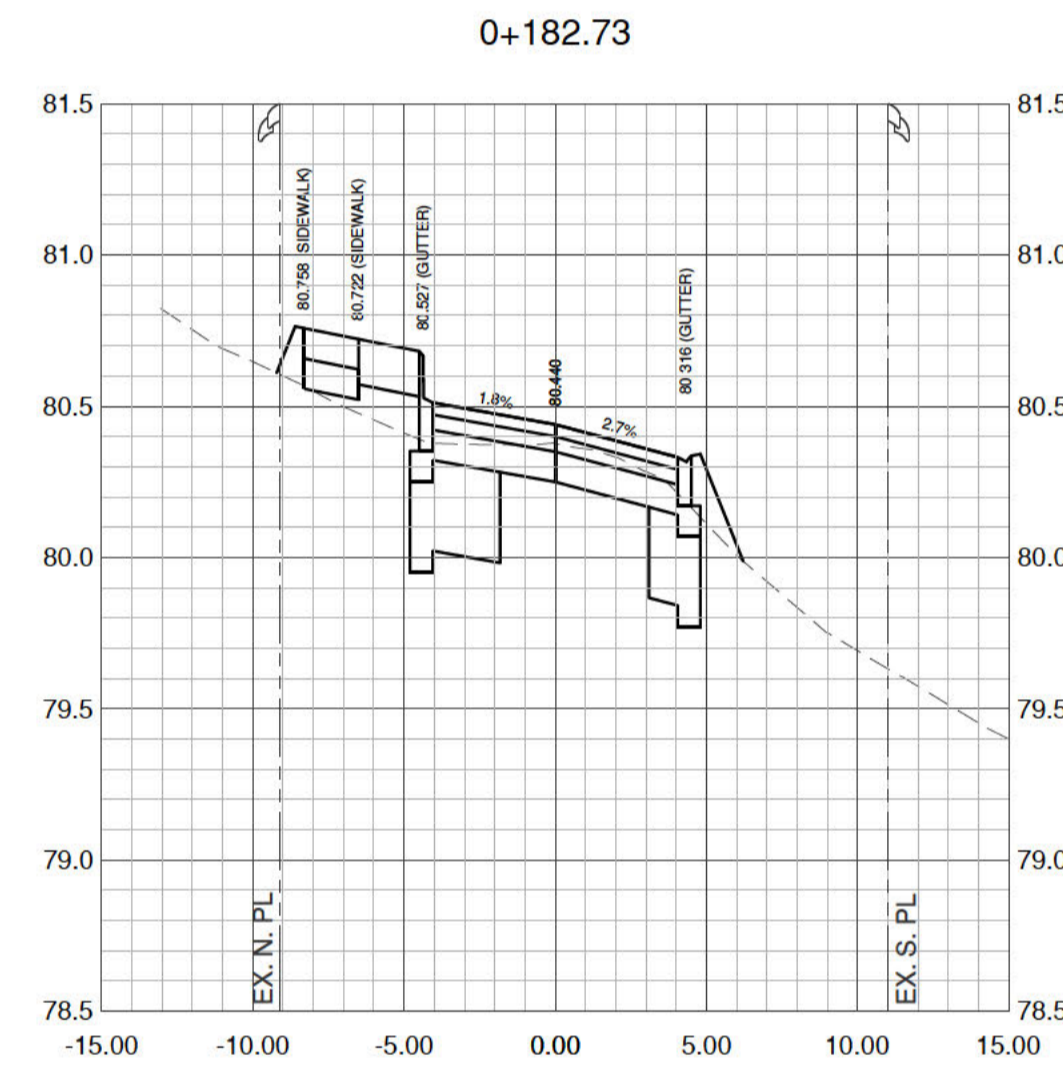
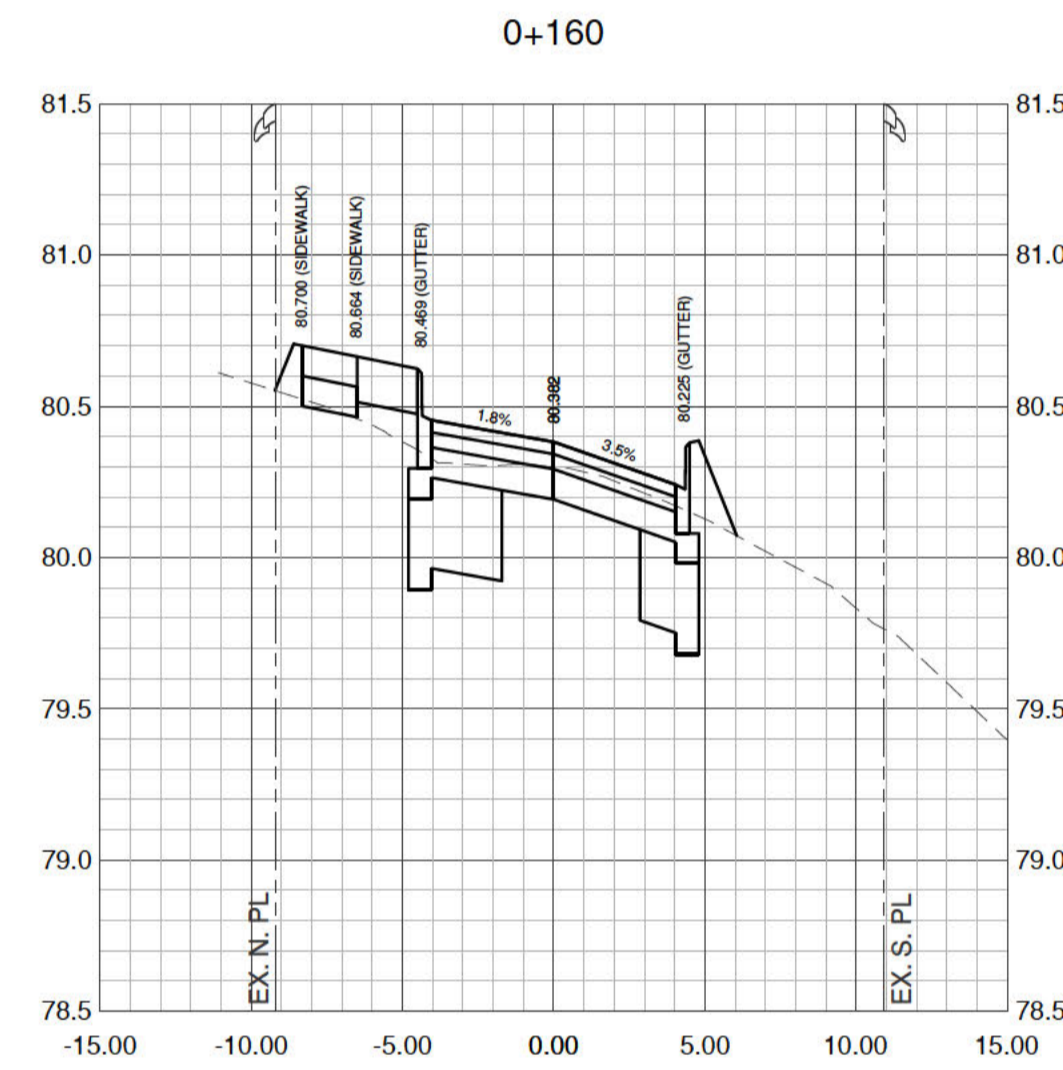
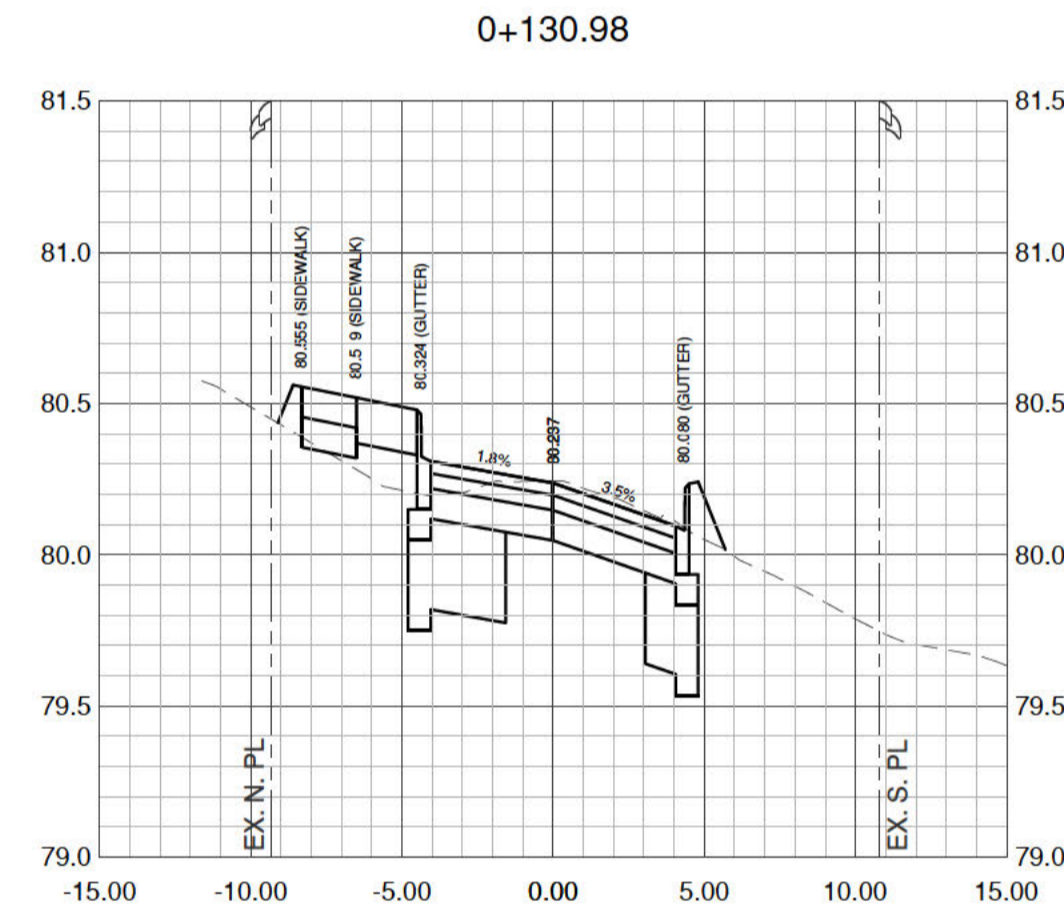
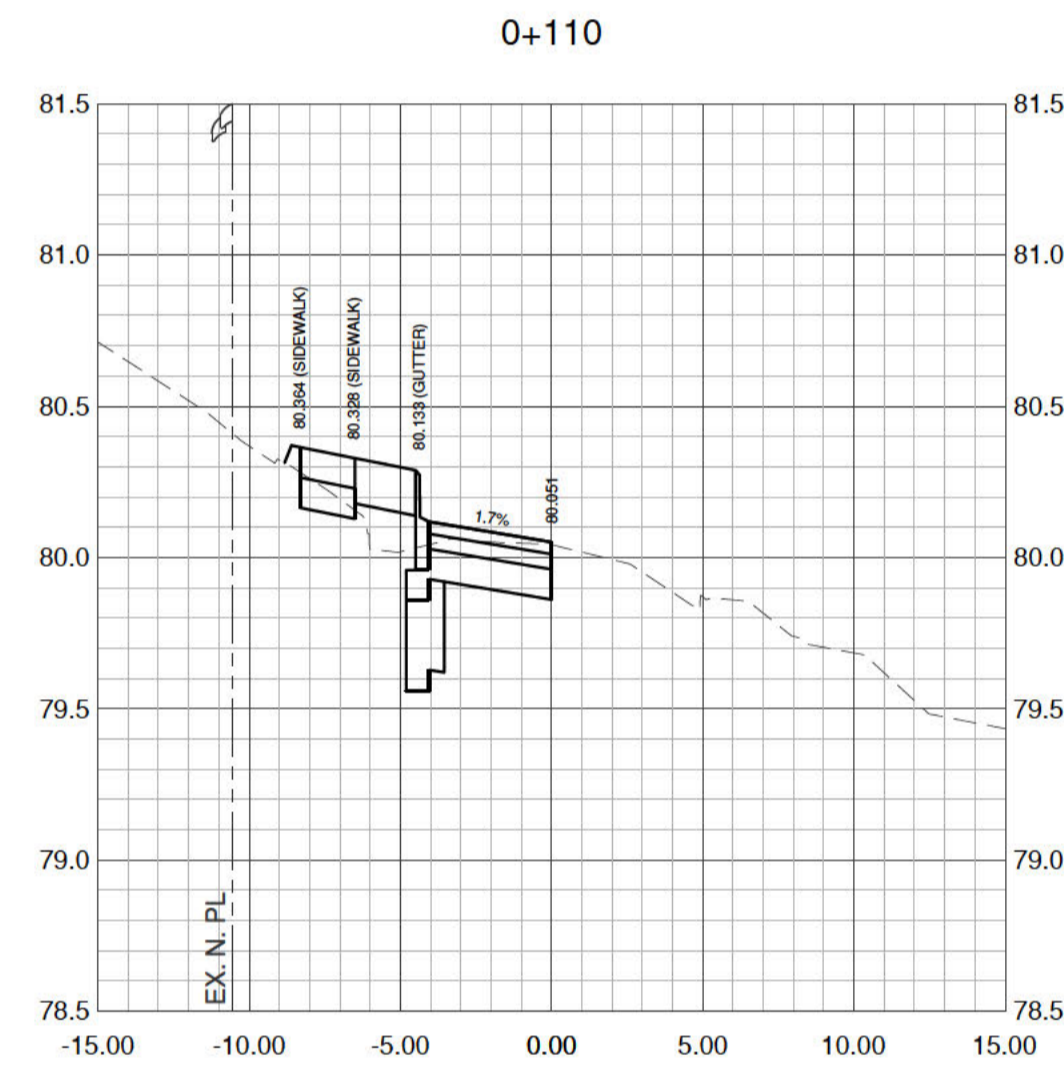
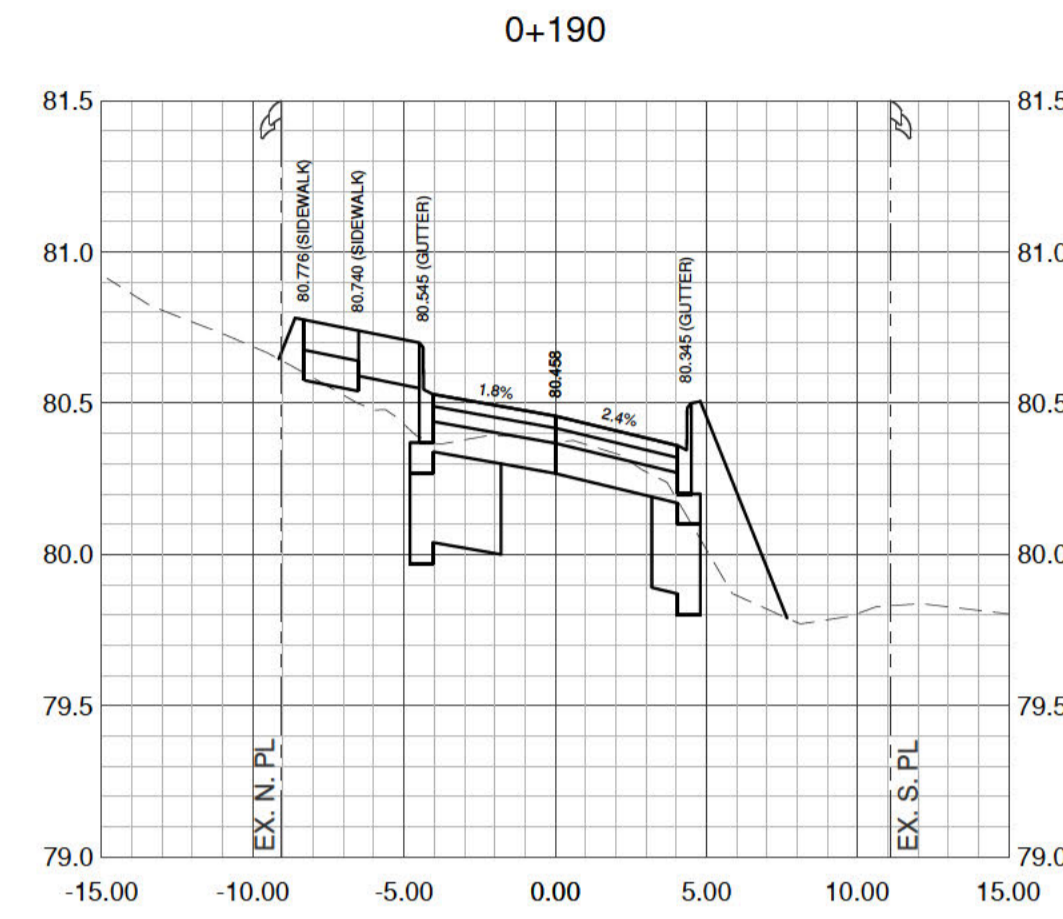
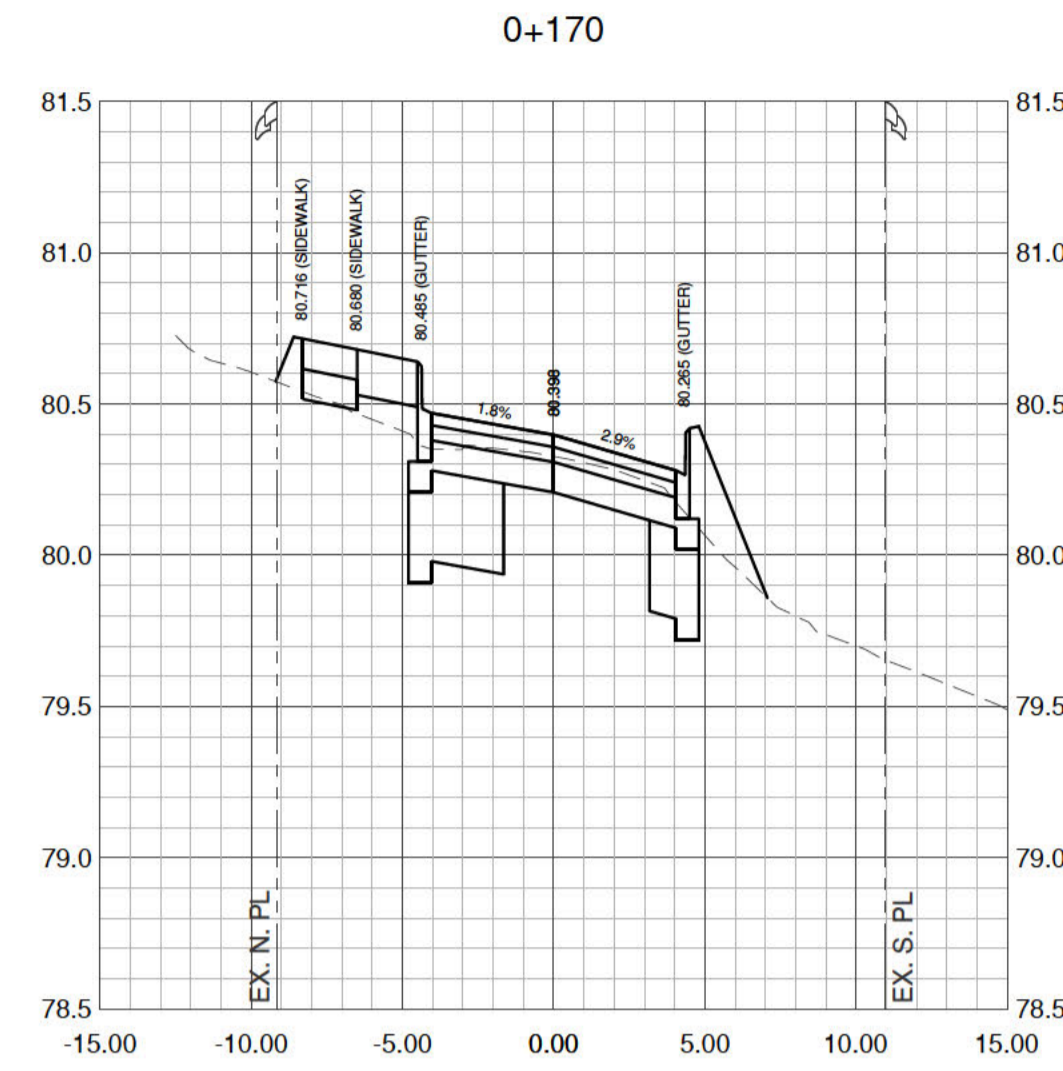
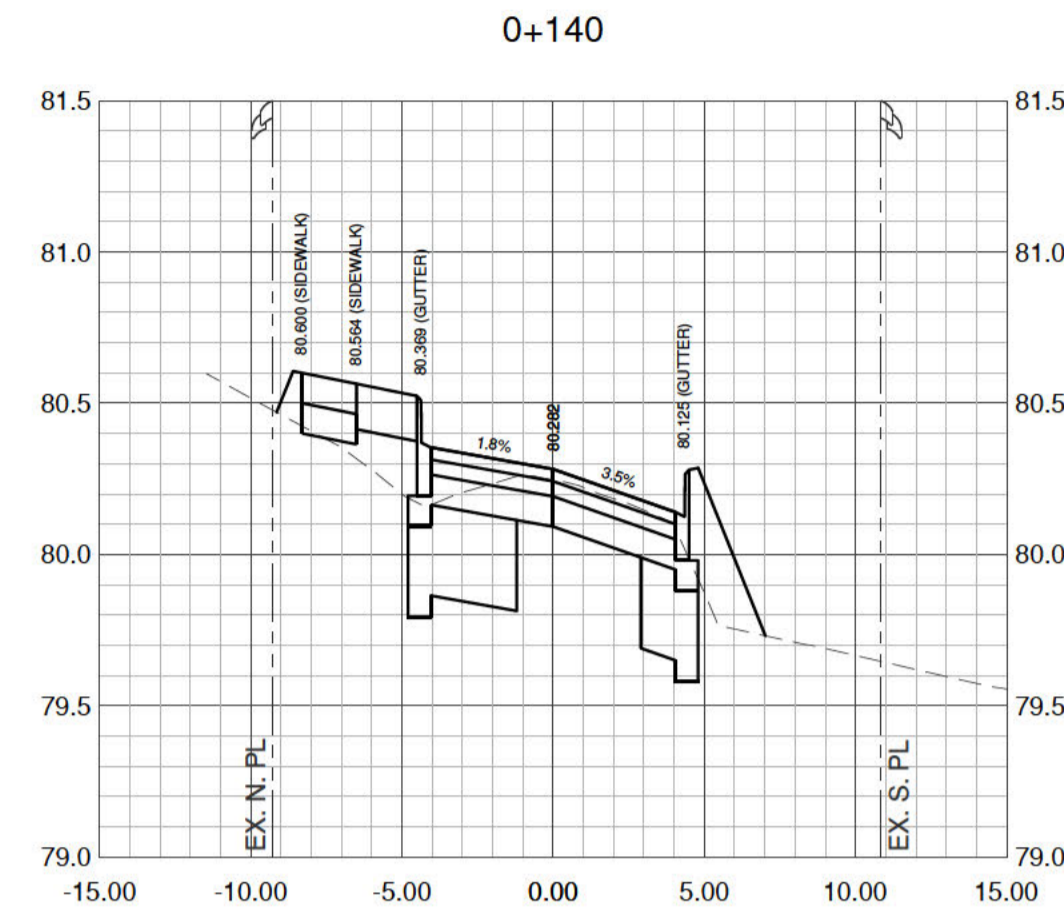
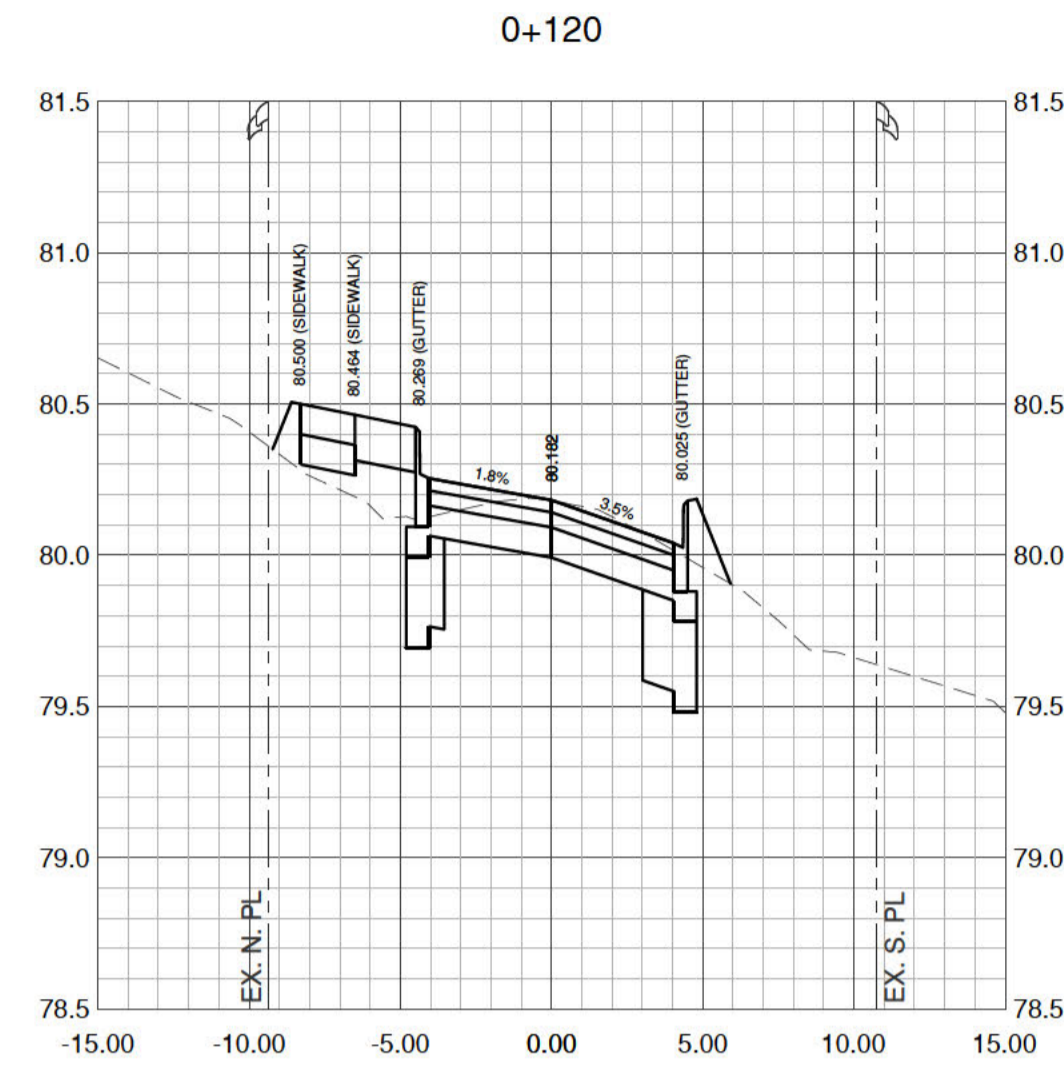
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V 1:50 2m

DATE 2020-01-28
DRAWING No.
20-0063-ST1-1

SHEET 06 **OF** 10 **REV.** 1

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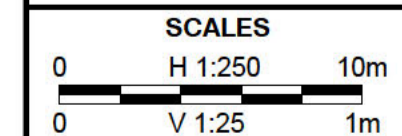


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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

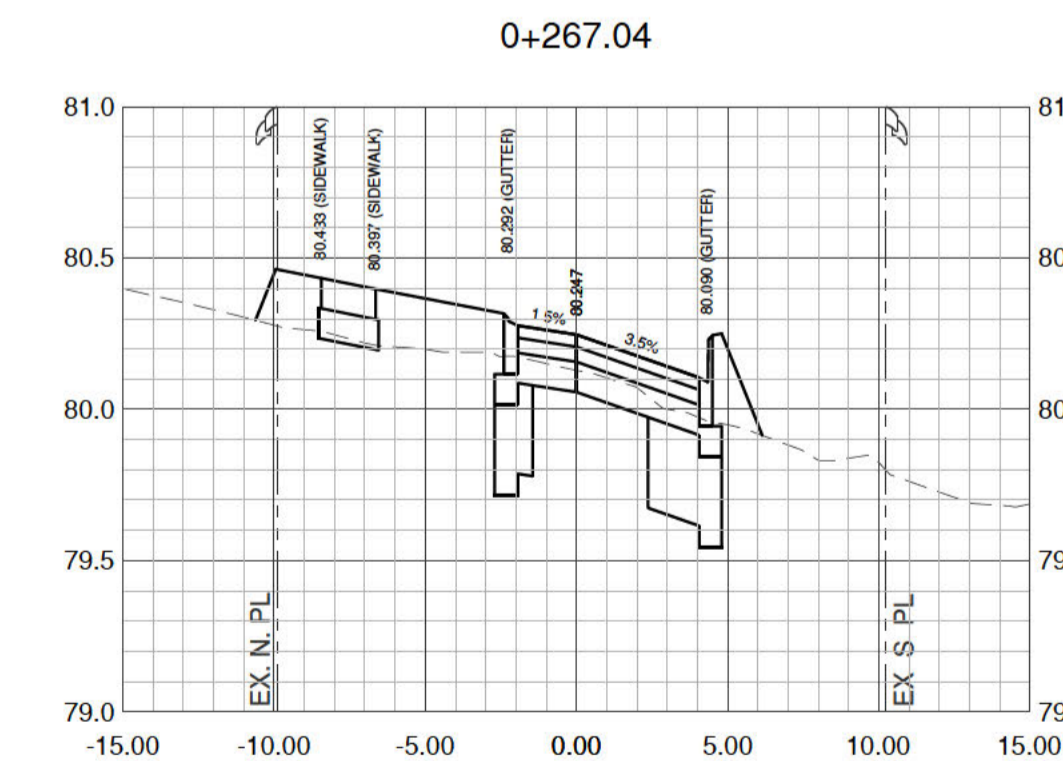
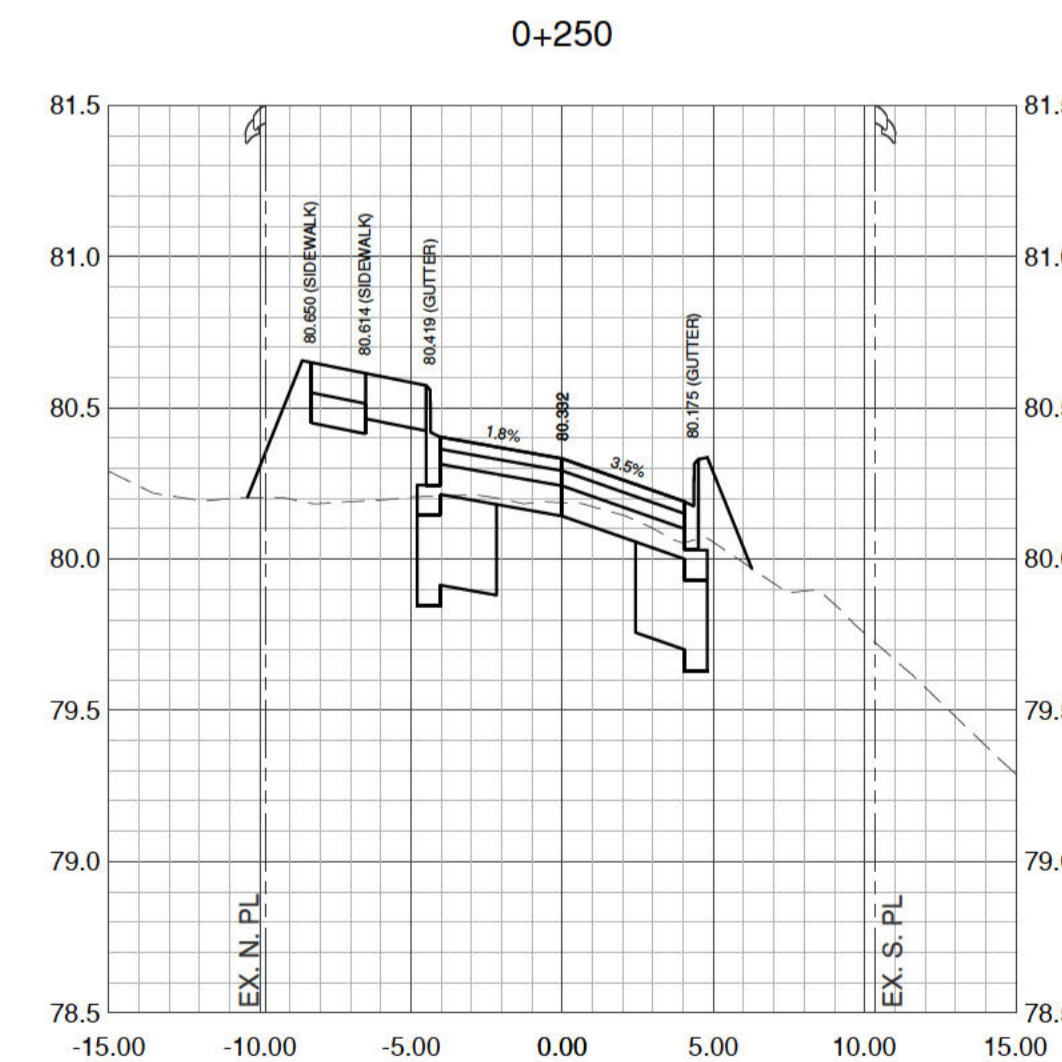
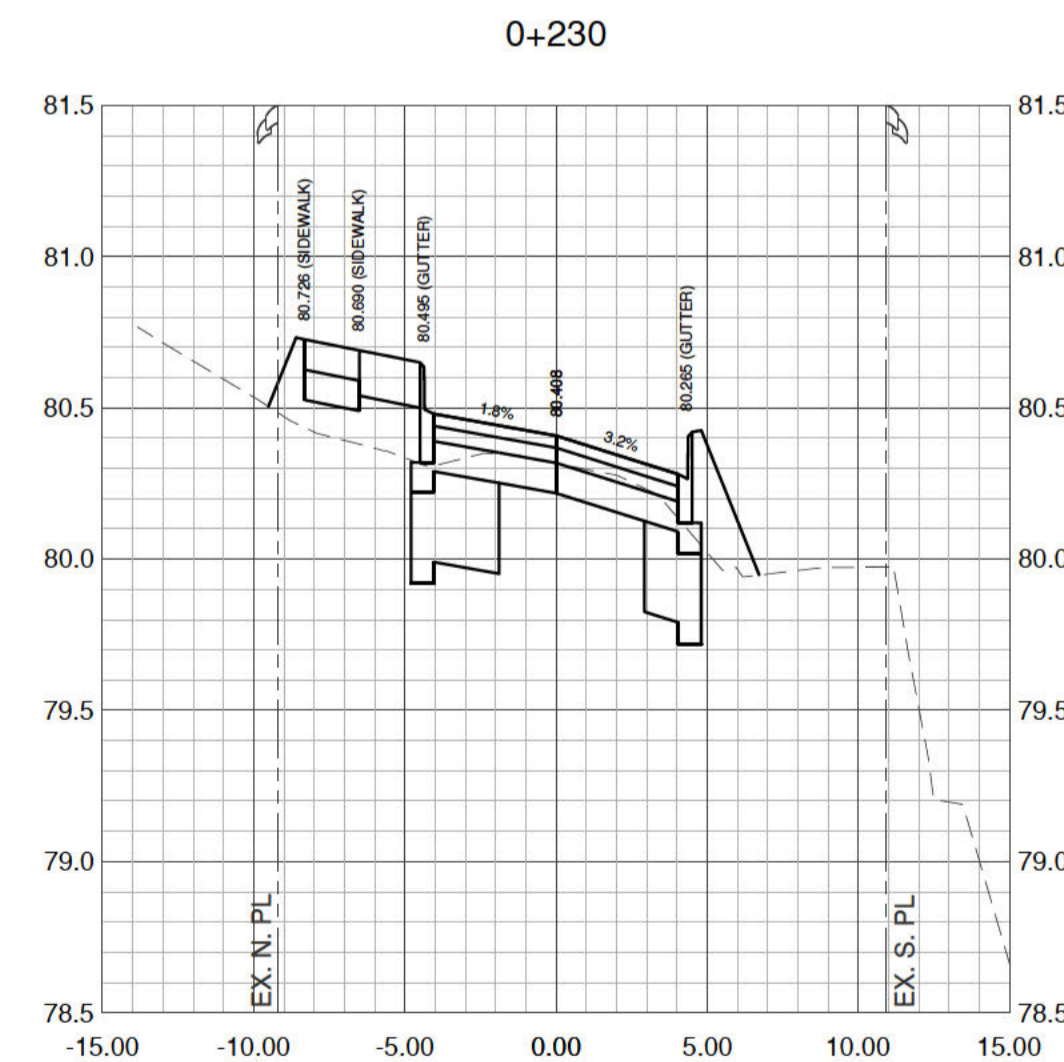
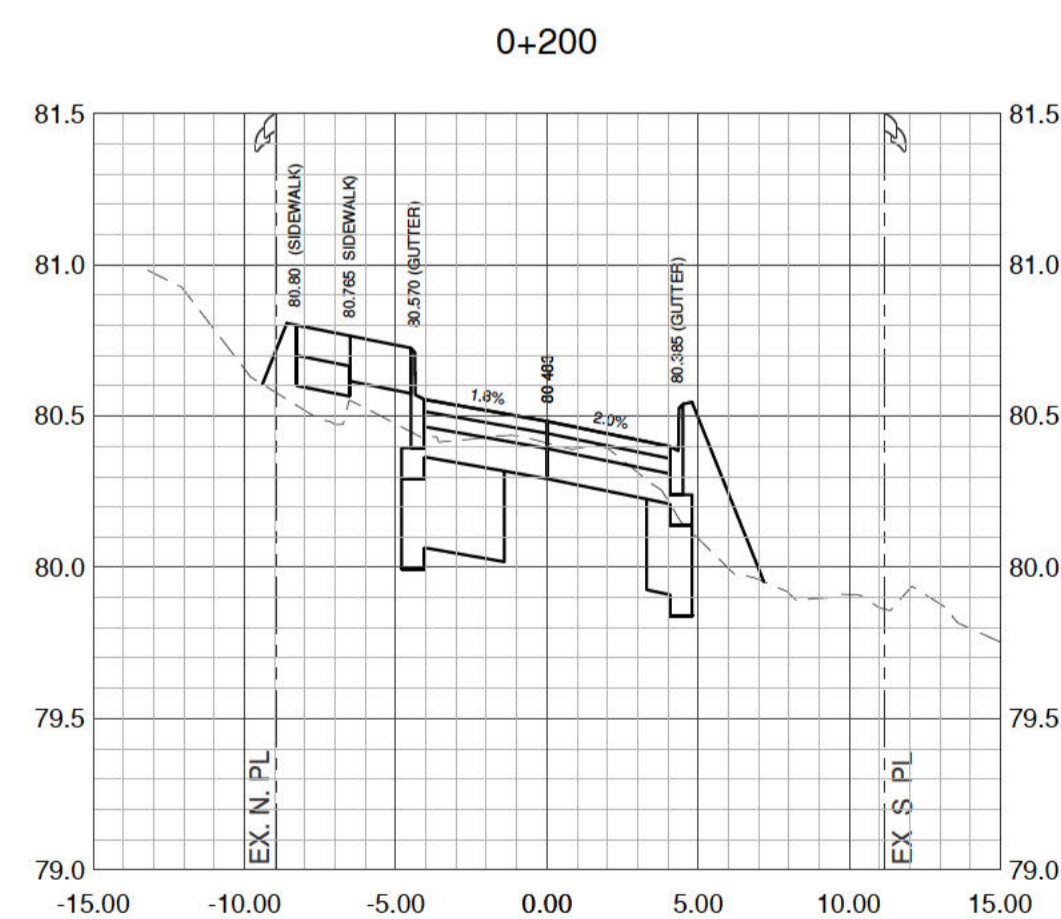
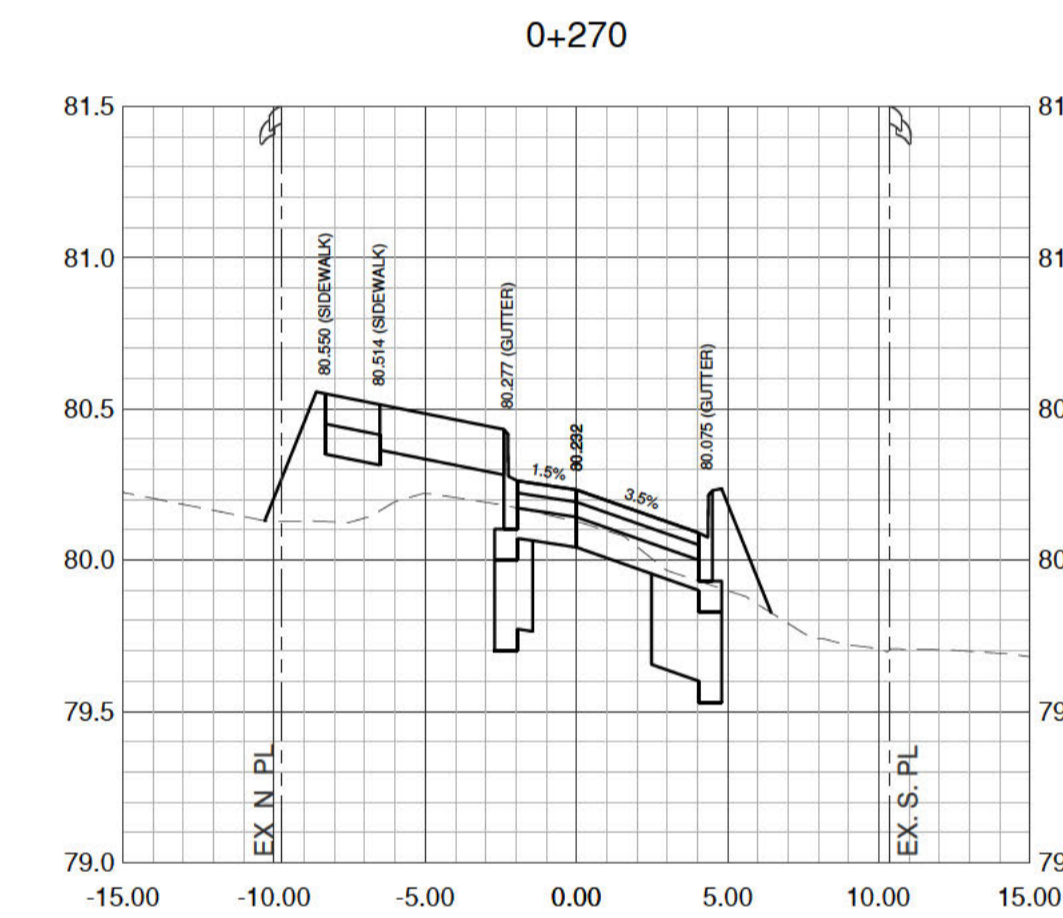
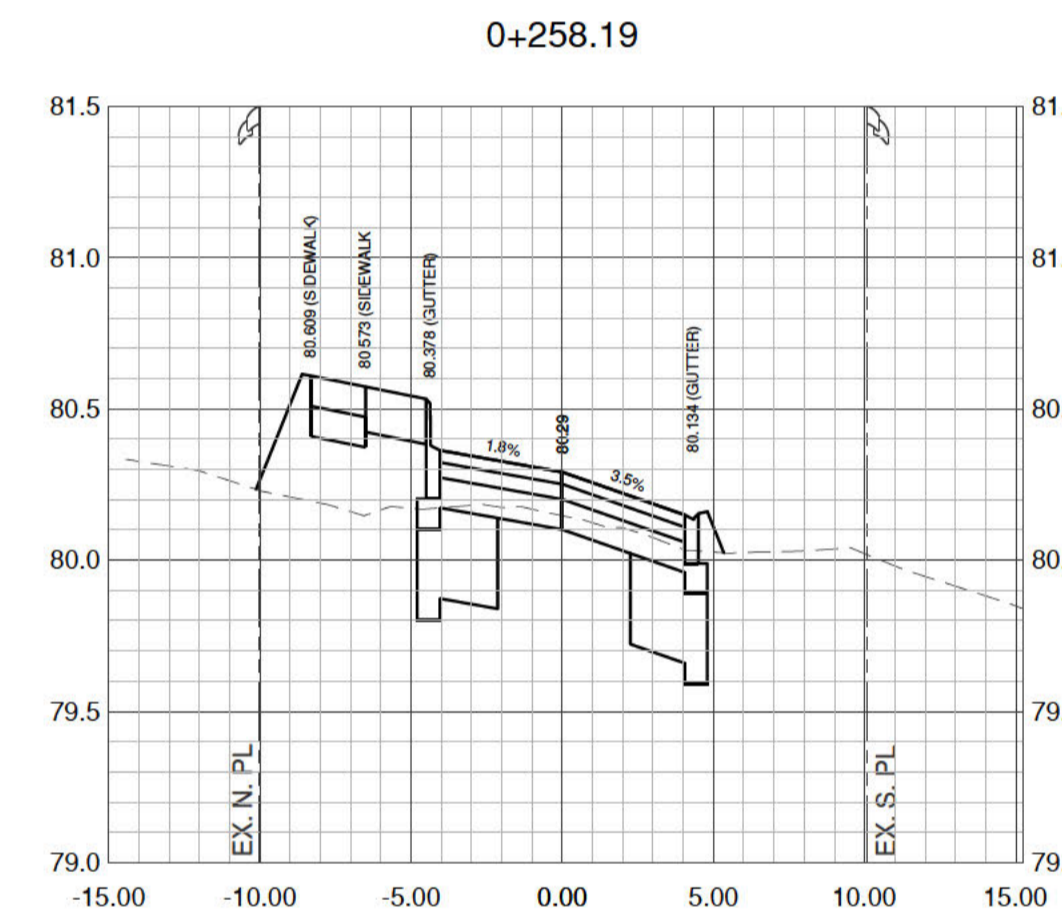
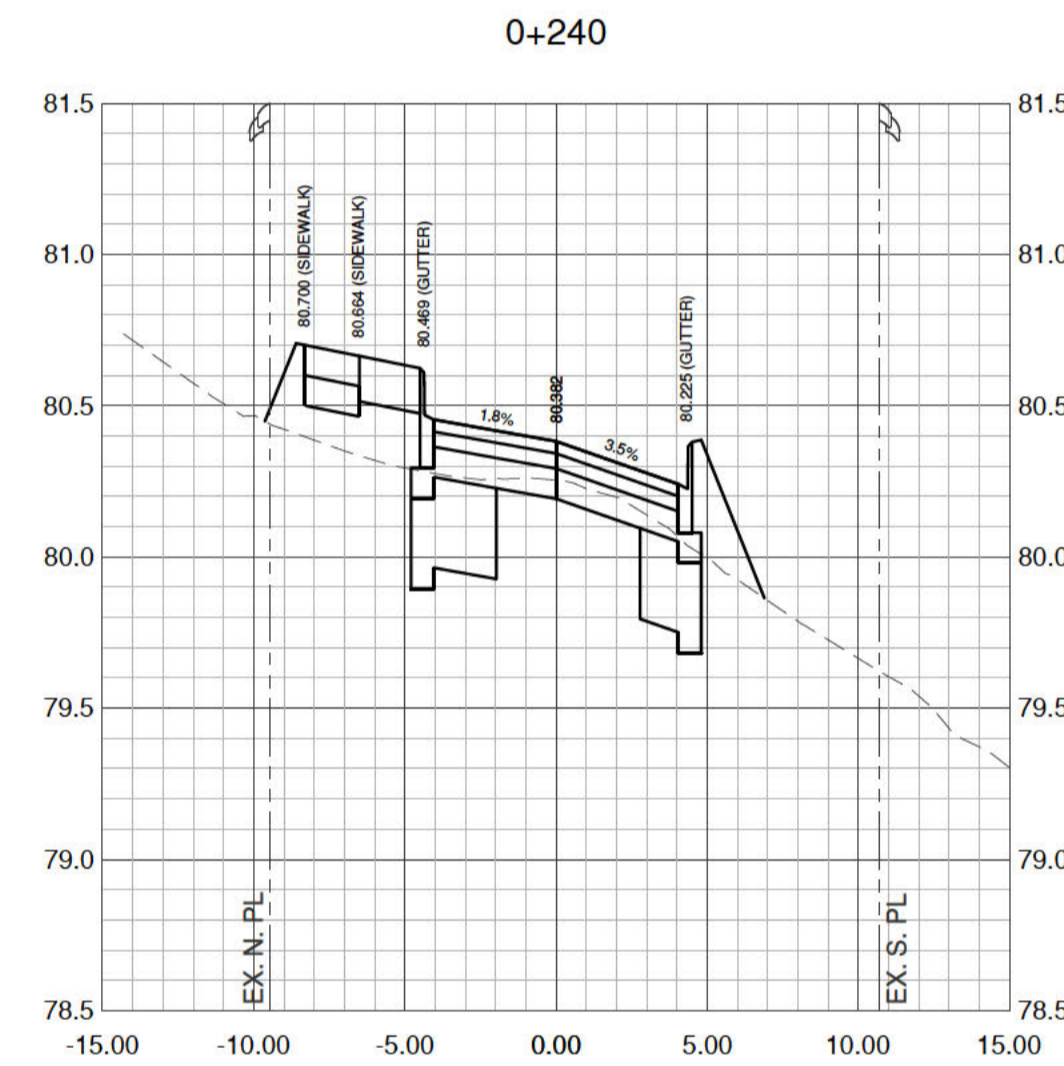
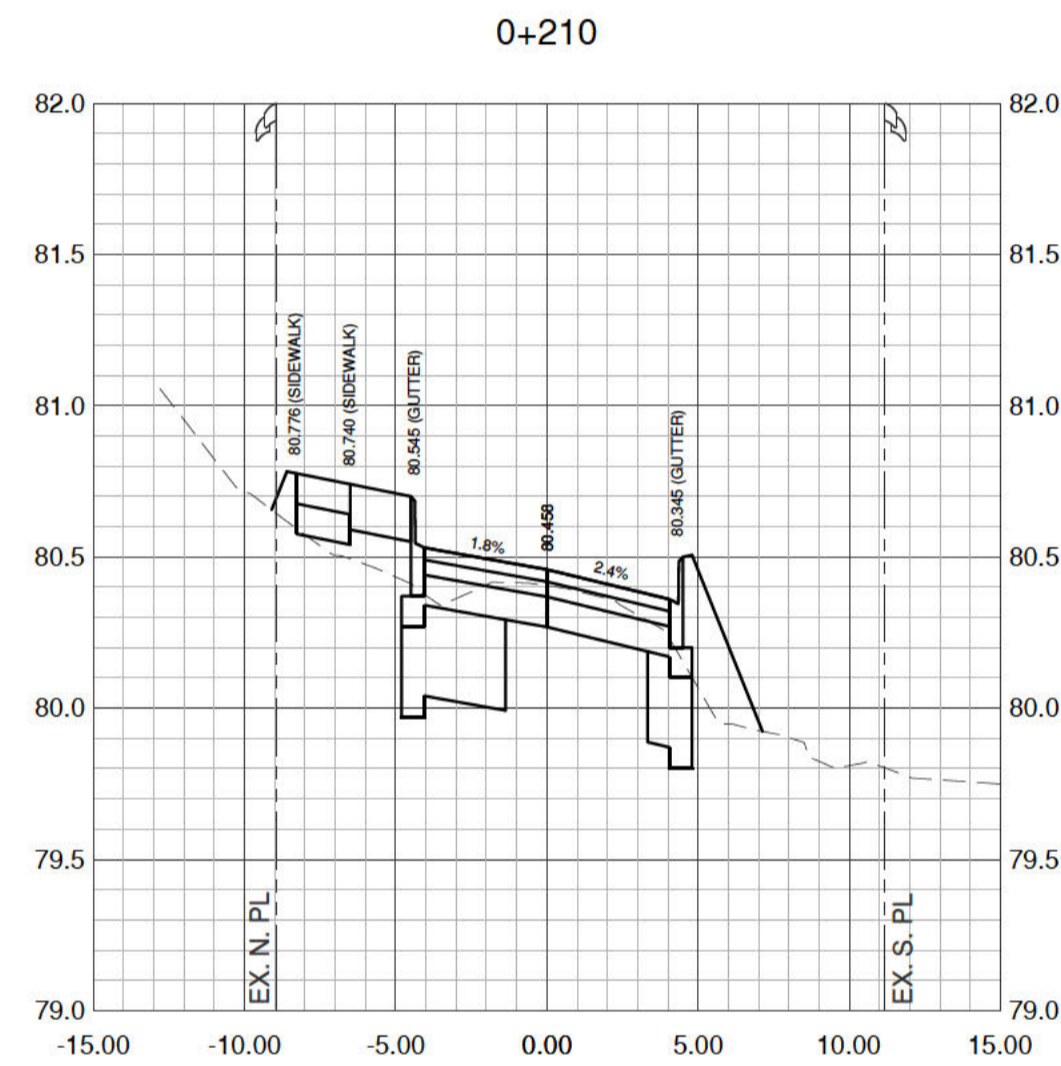
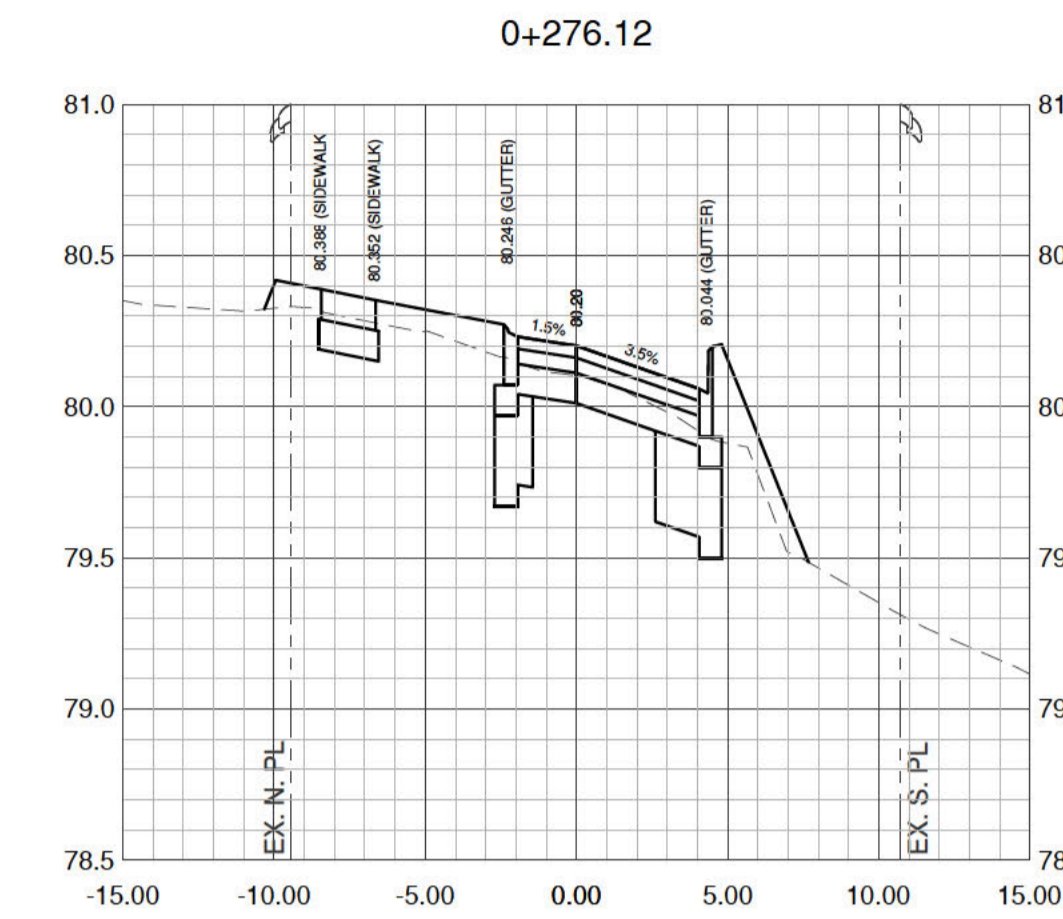
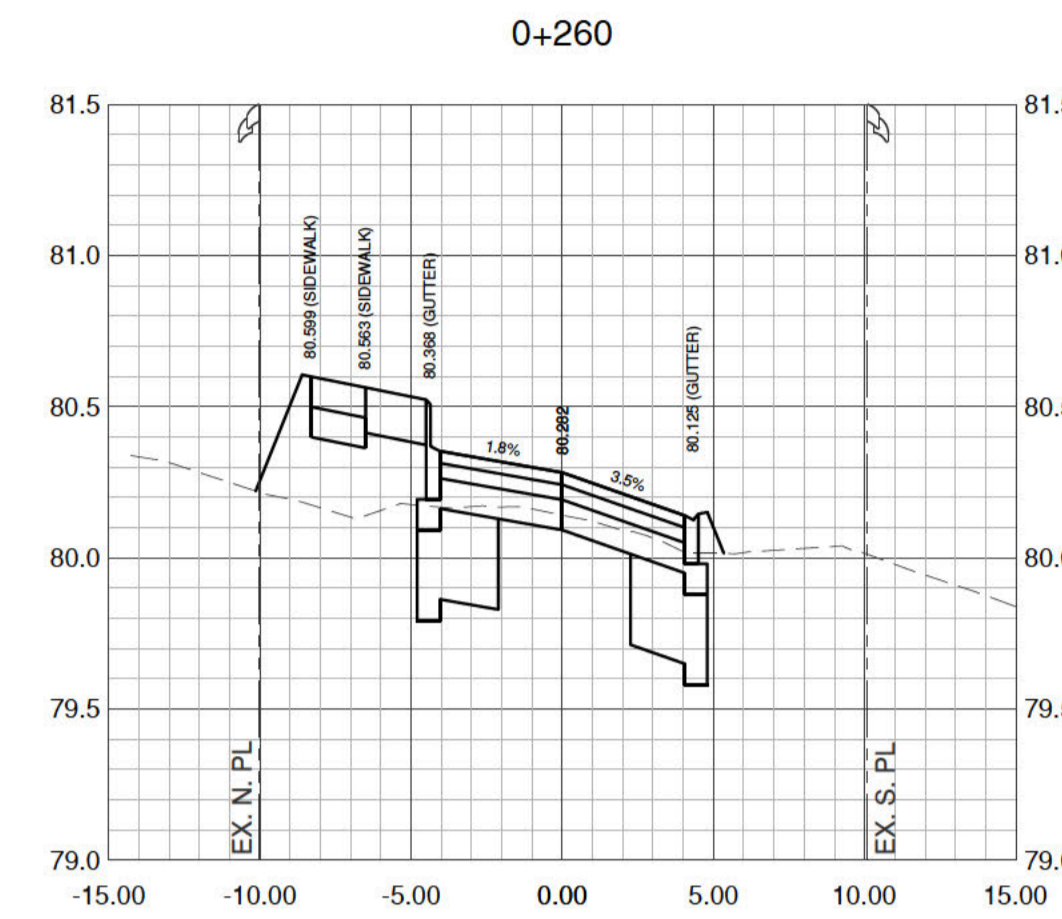
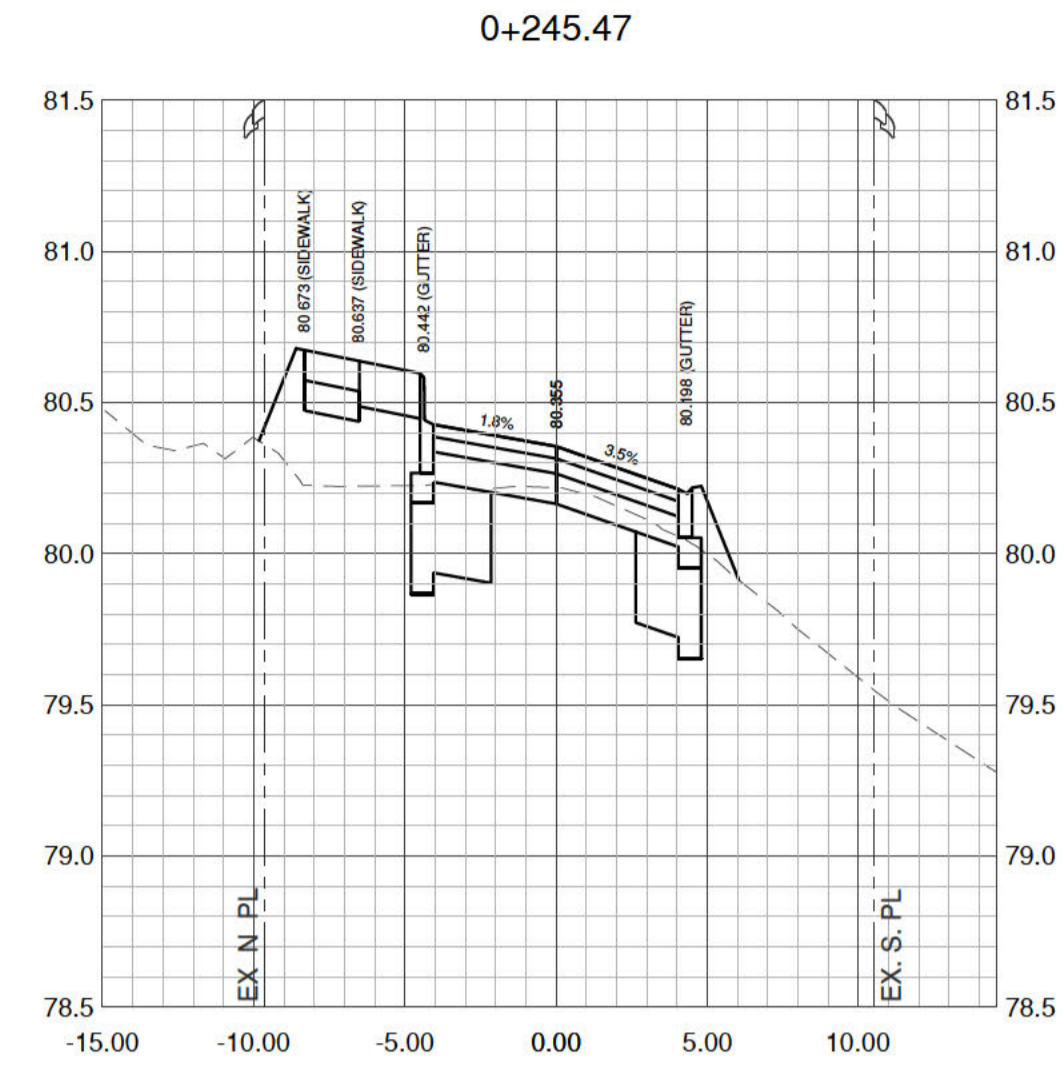
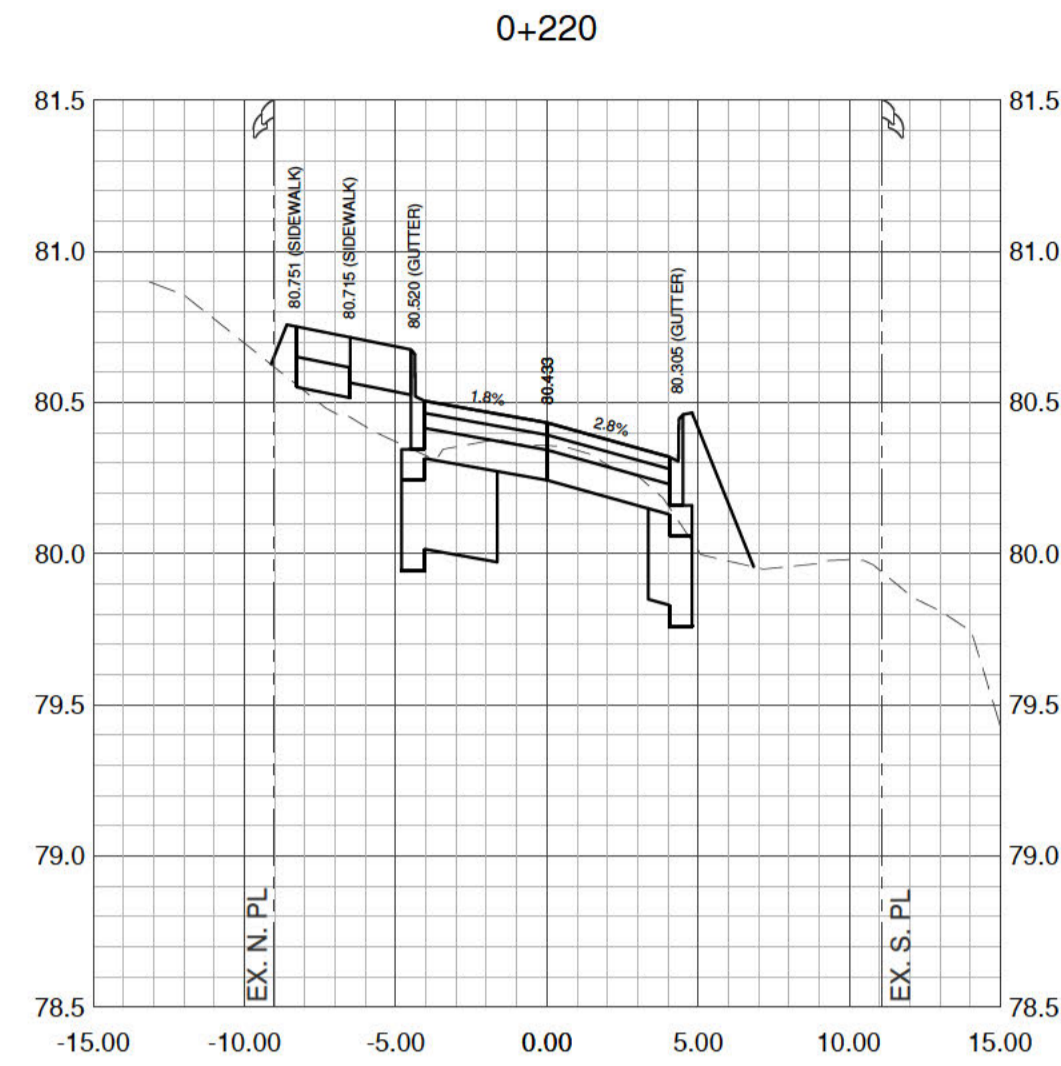
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 DESIGNED BY RANM
 CHECKED BY RA



DATE 2020-01-28
 DRAWING No.
20-0063-XS1-1

SHEET 07 OF 10
 REV. 1

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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
 DRAWN BY SV
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 CHECKED BY RA

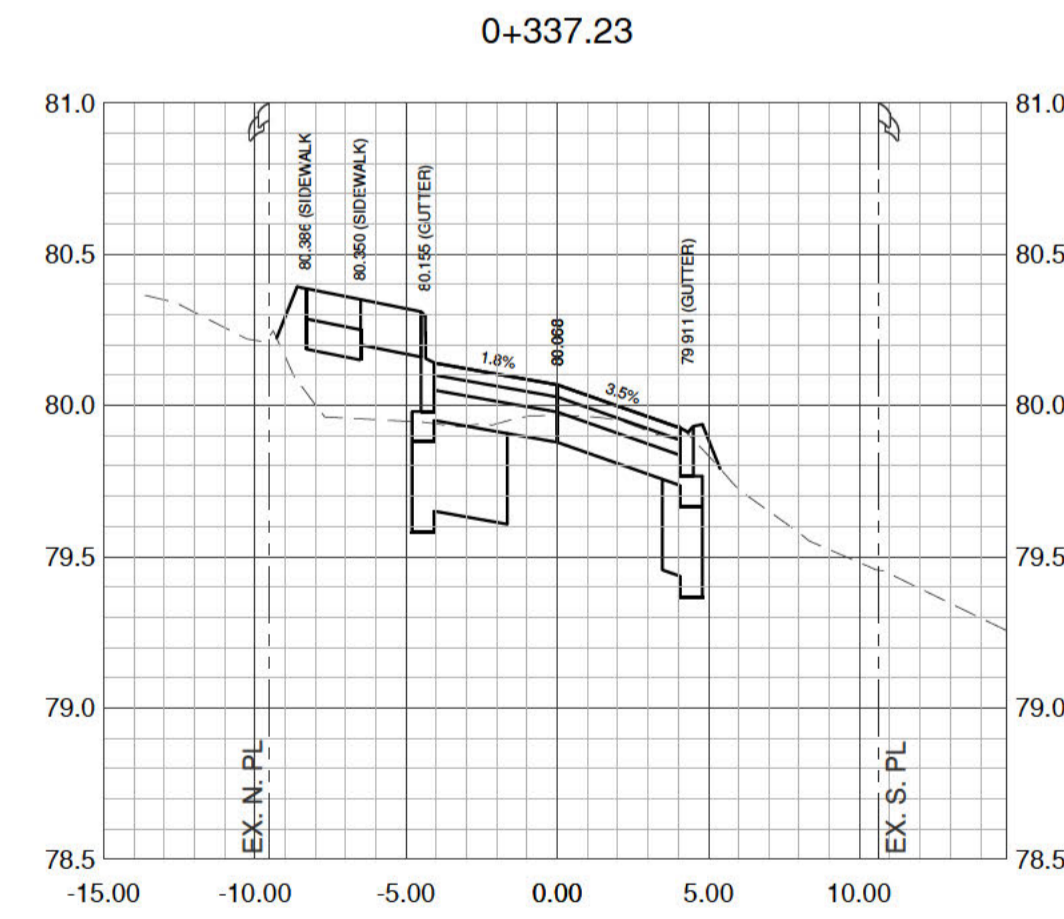
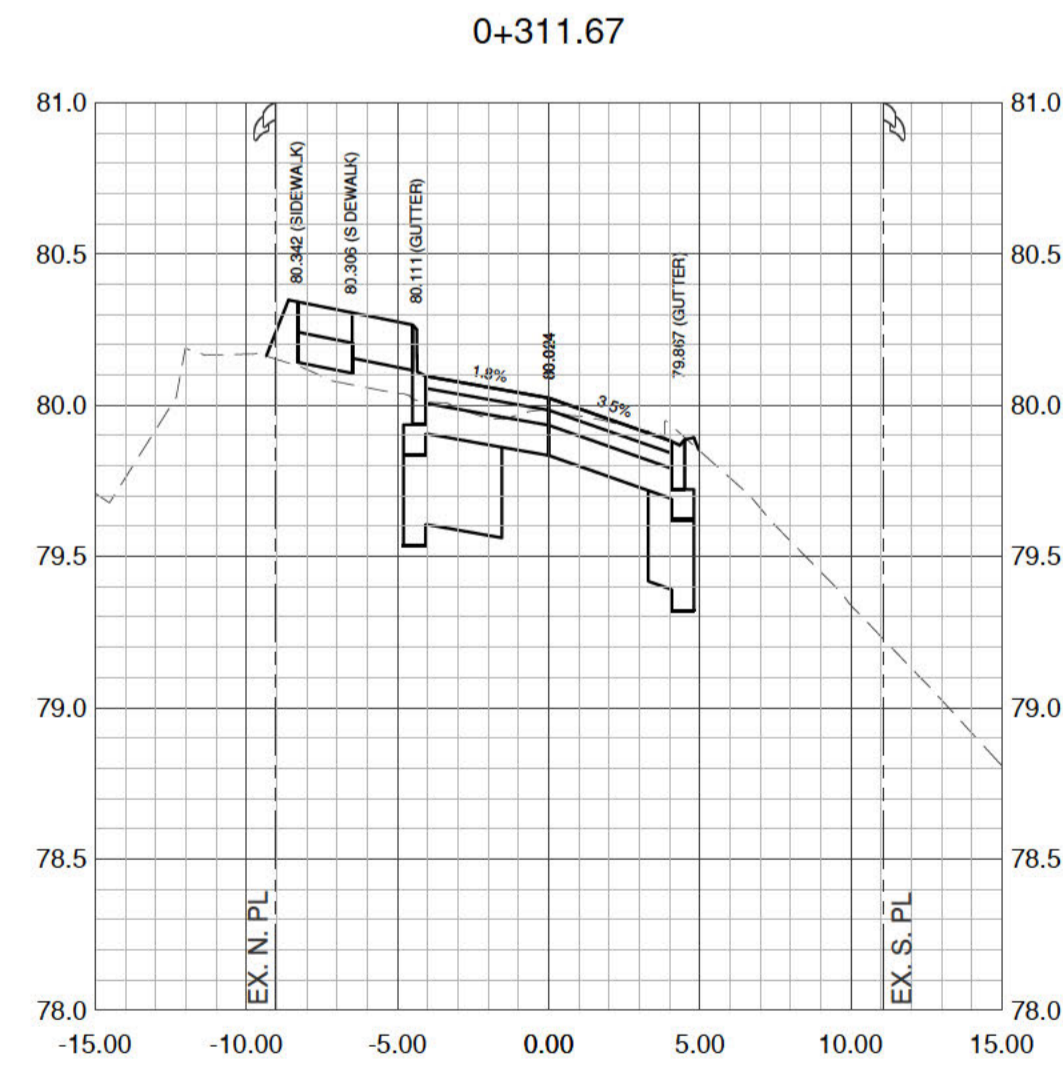
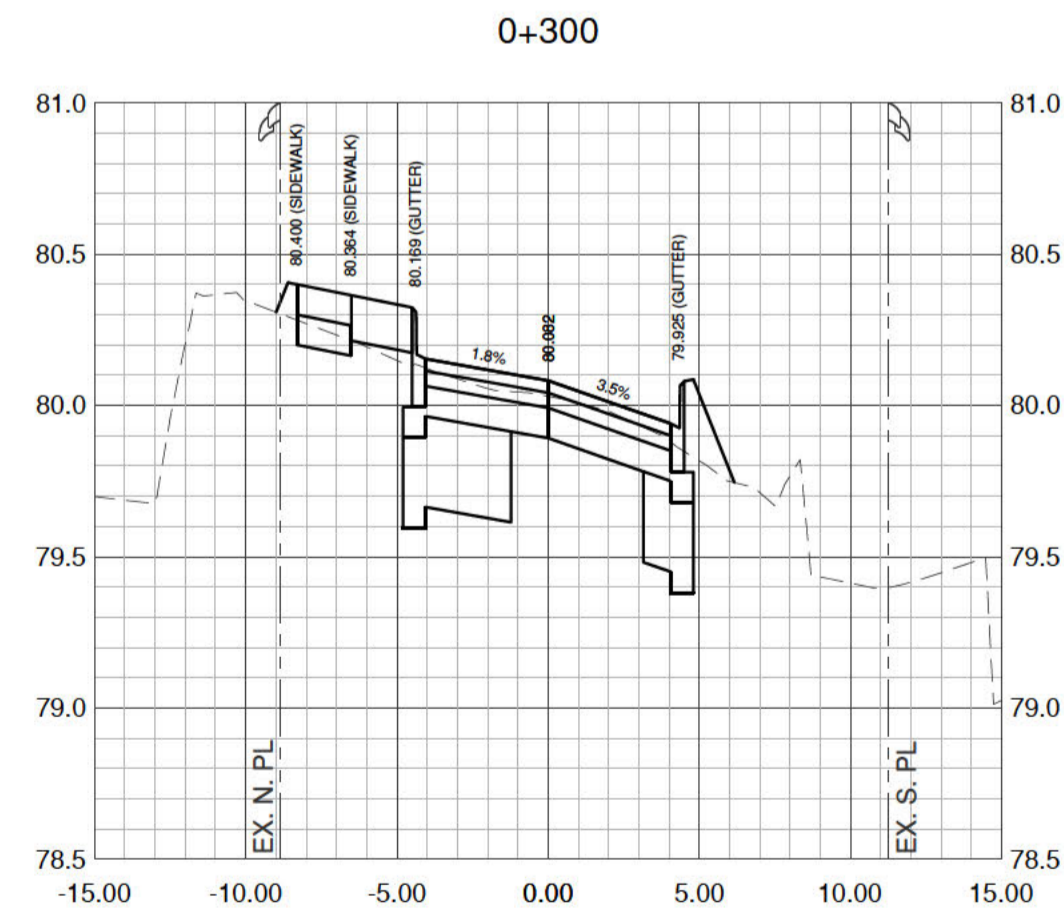
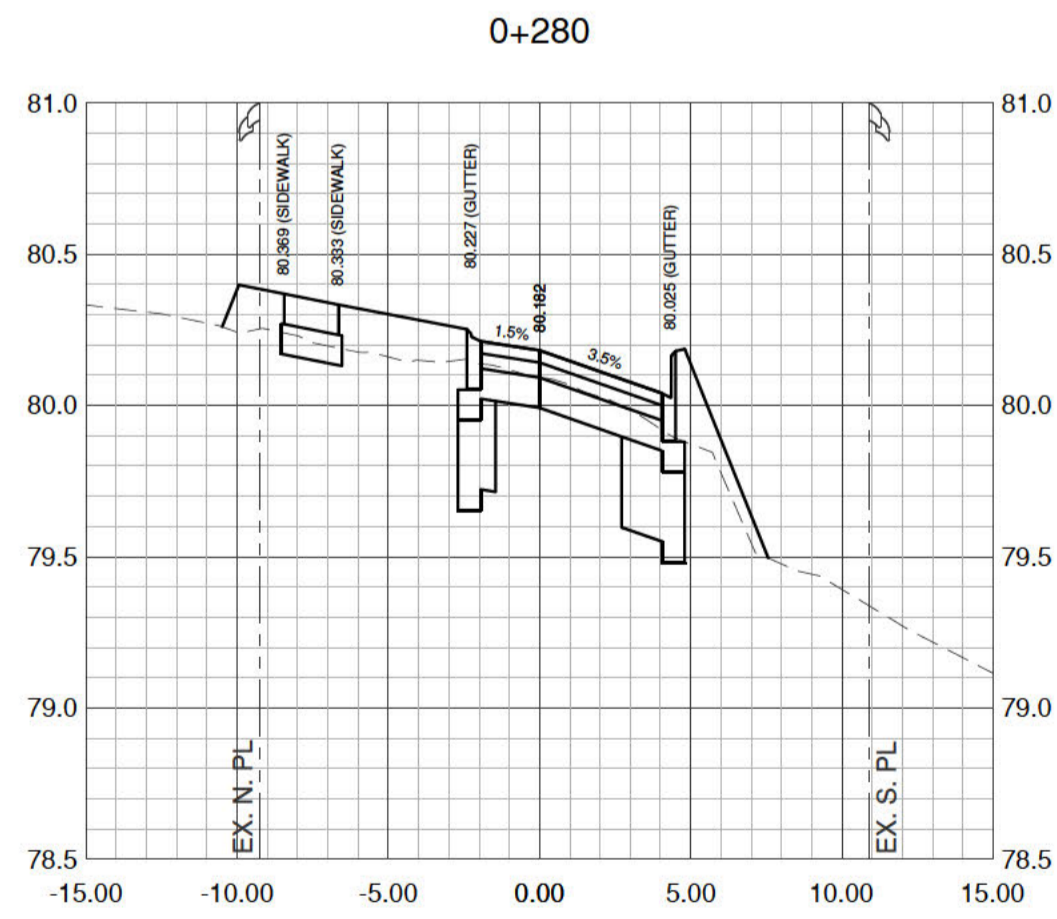
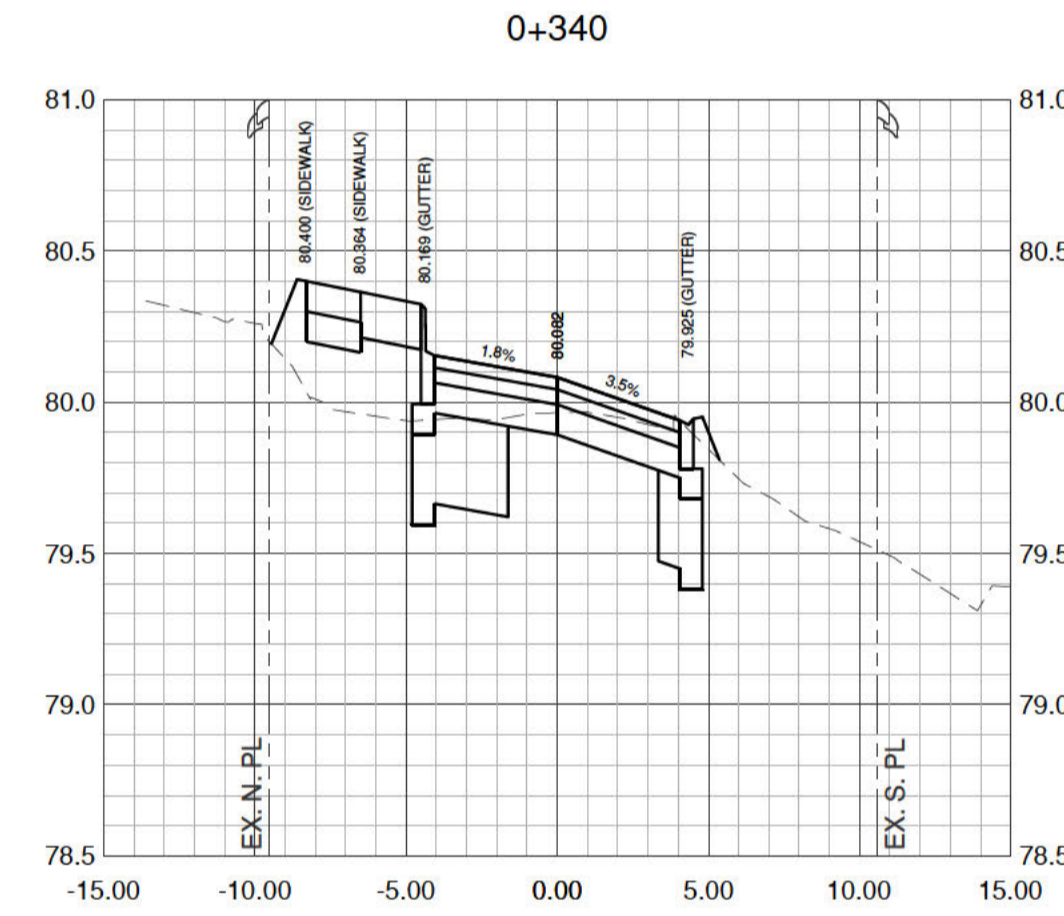
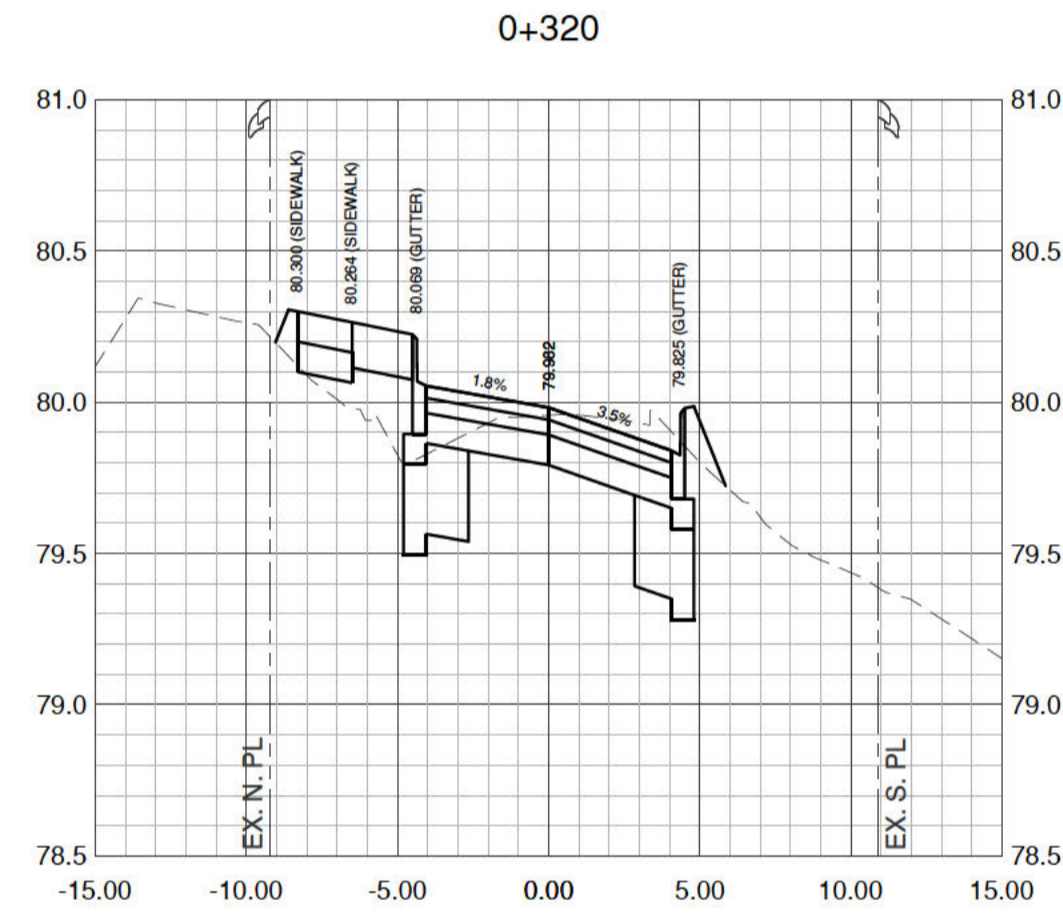
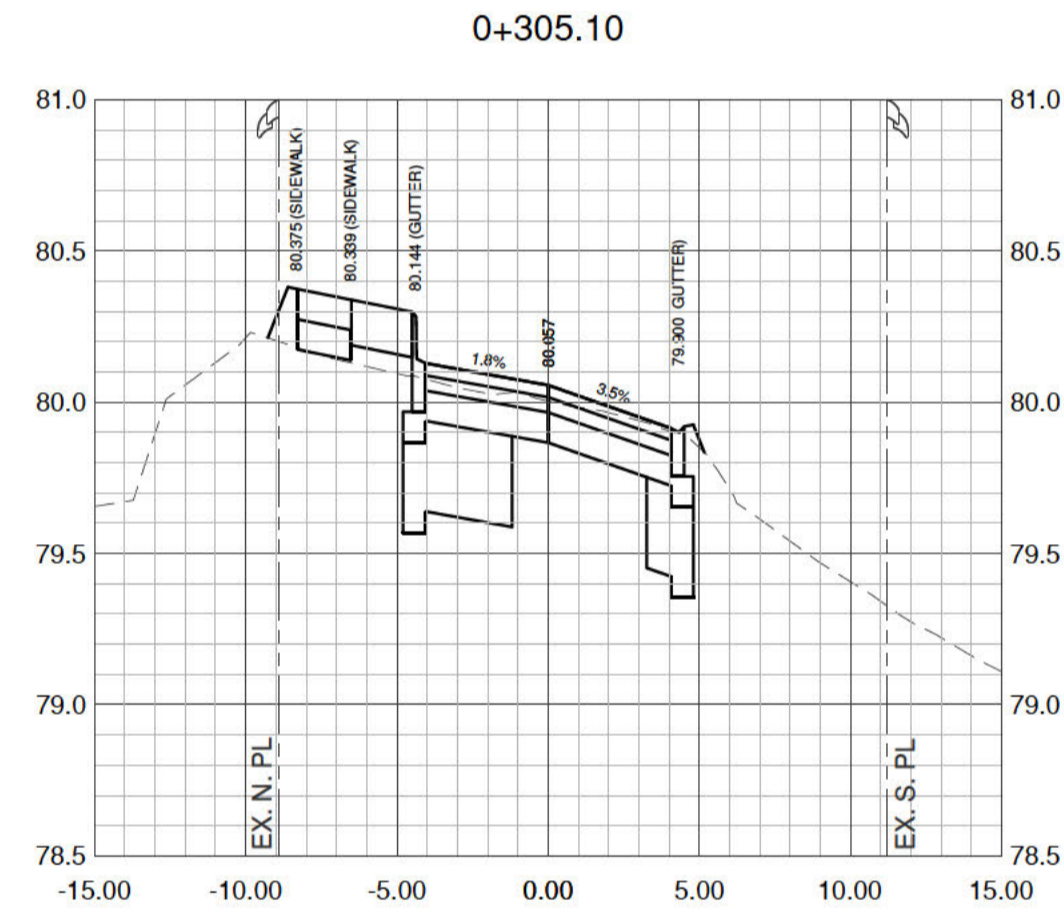
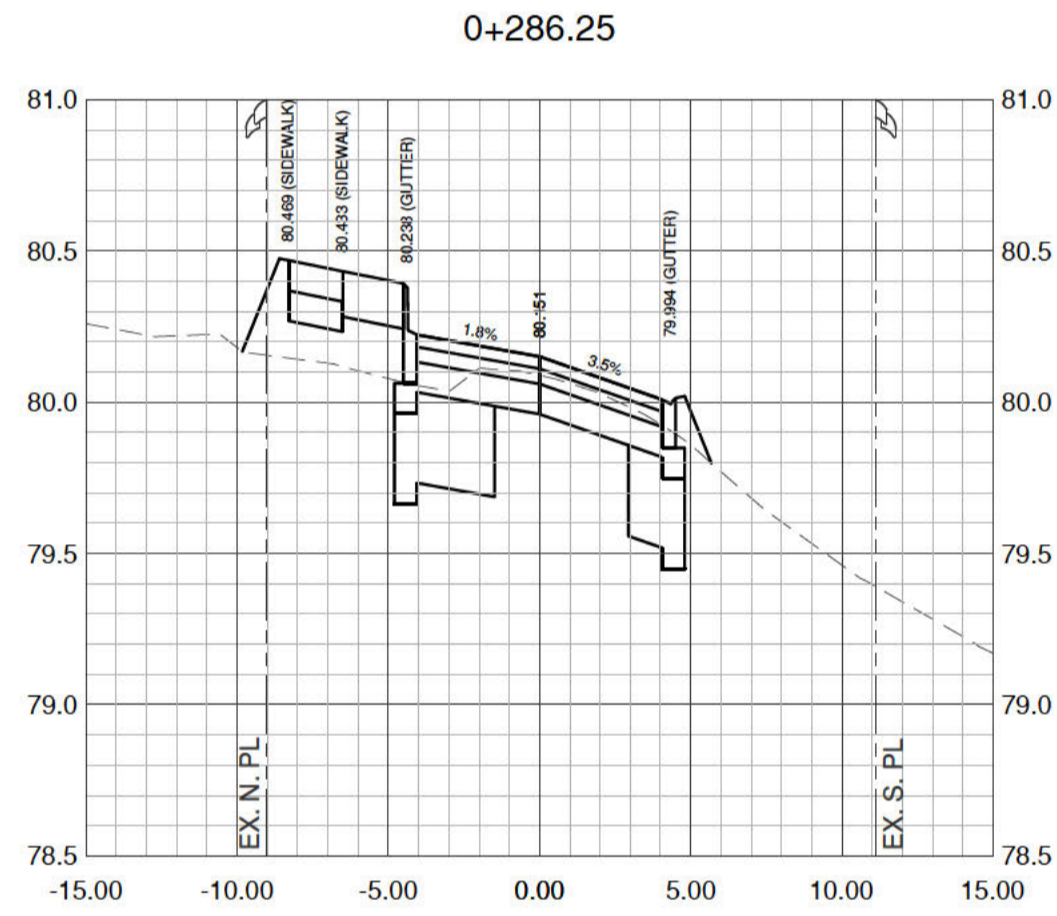
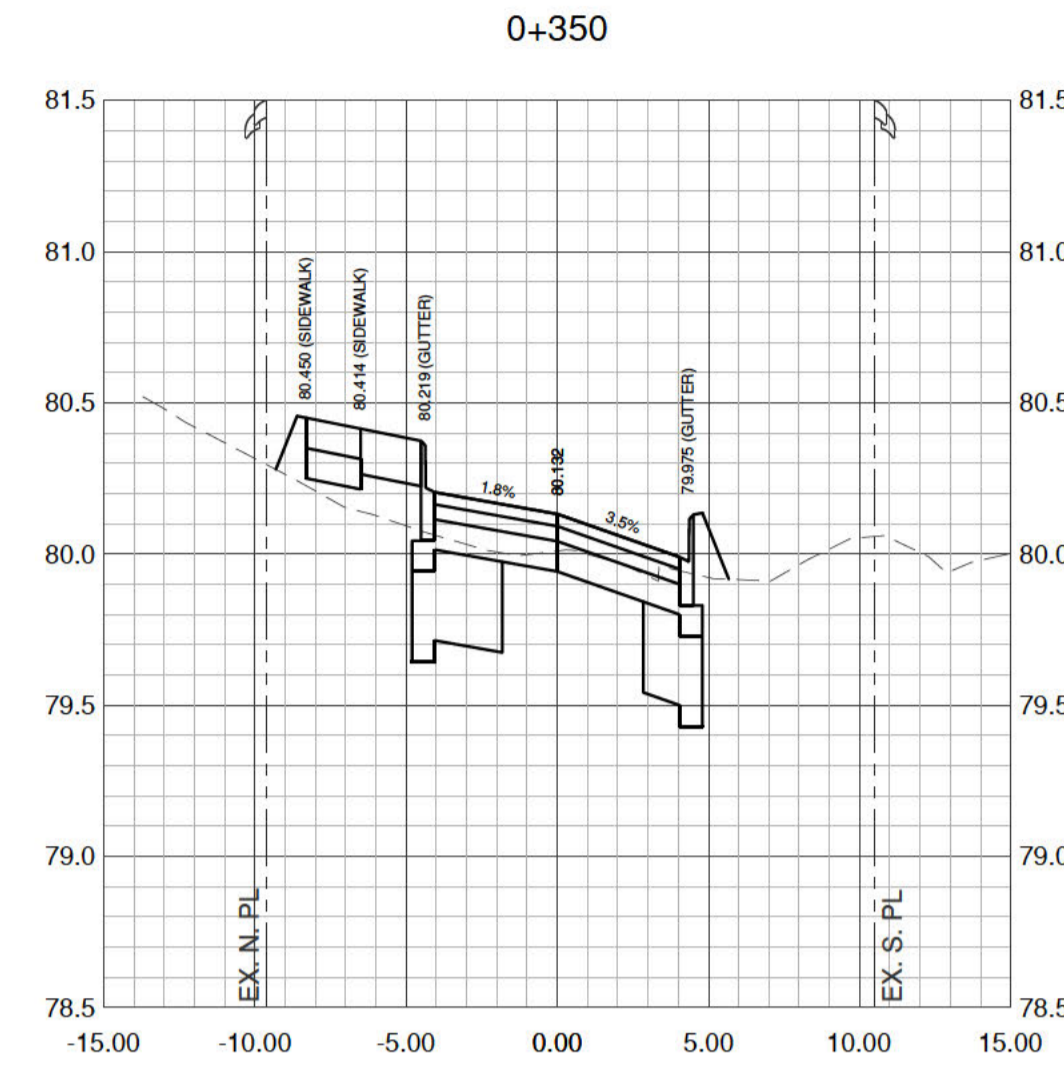
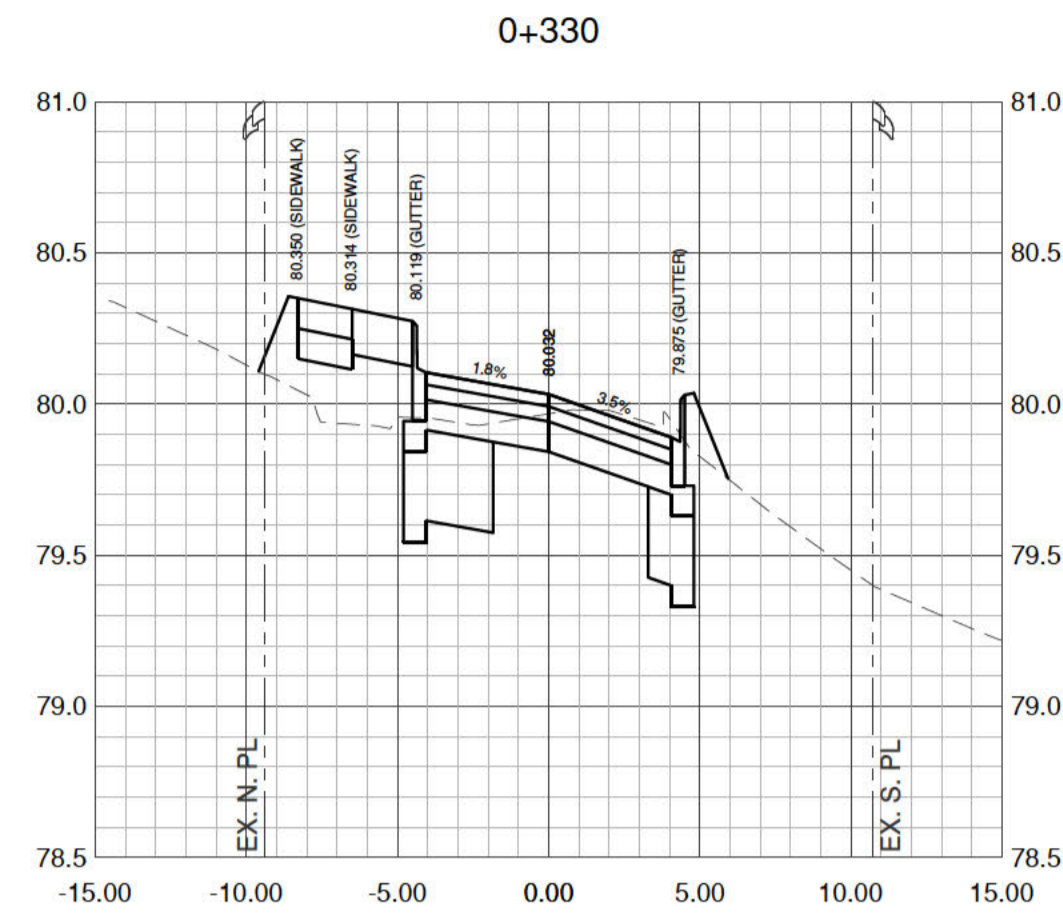
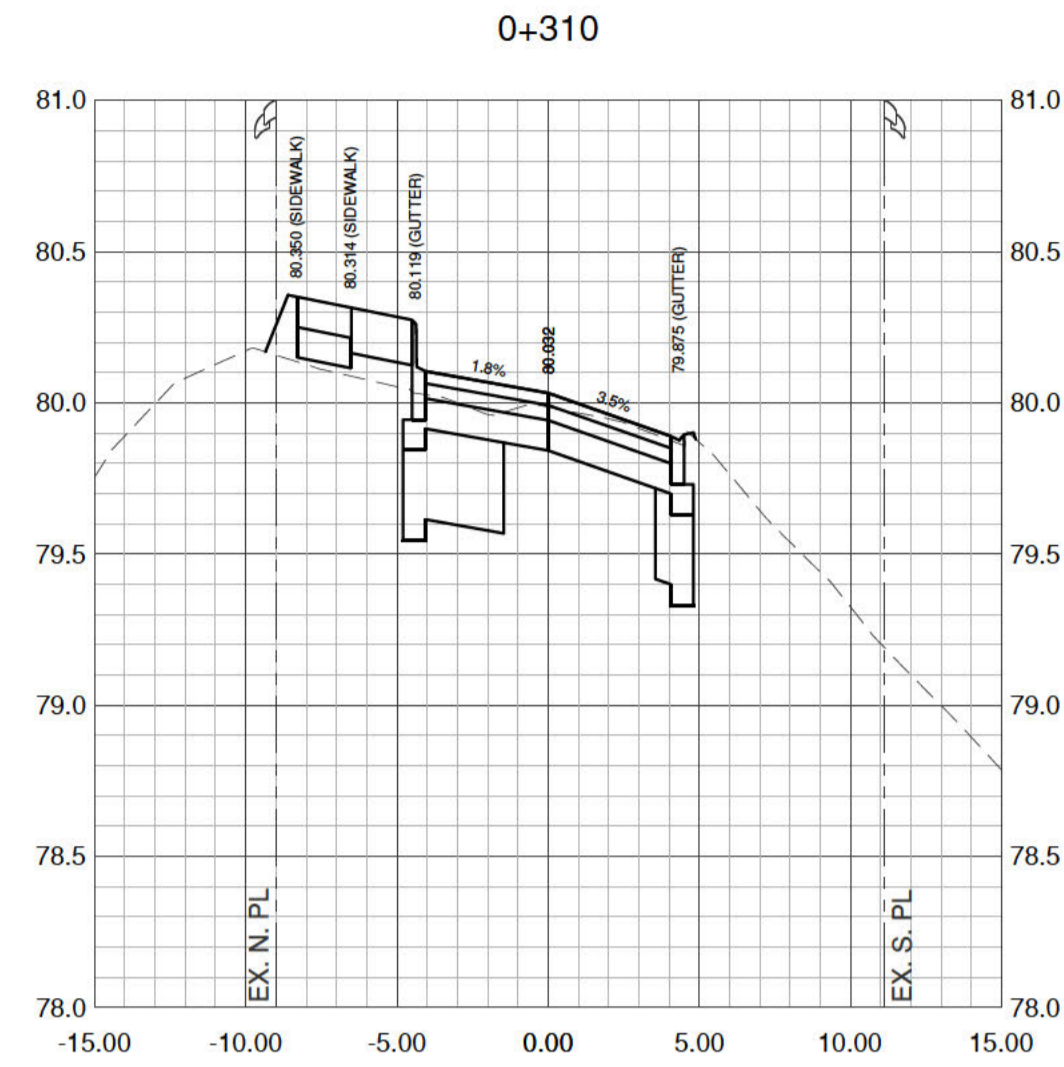
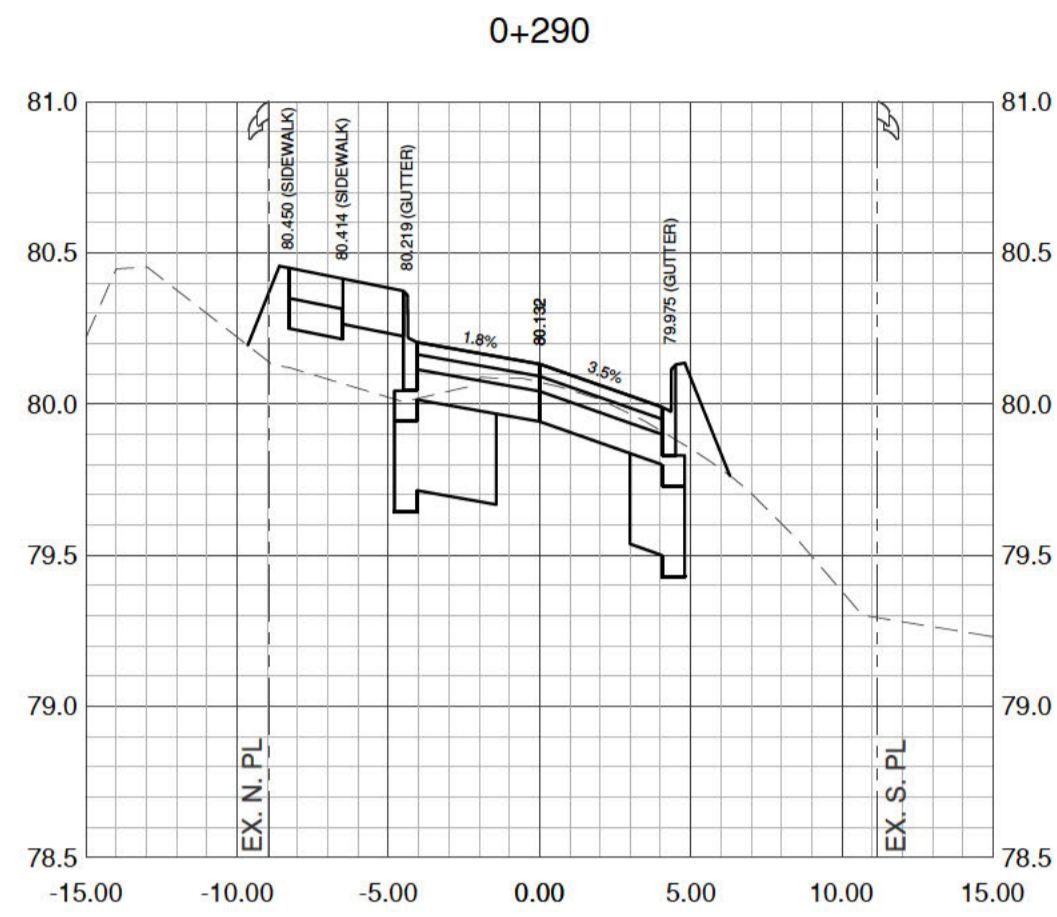
SCALES
 H 1:250
 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-2

SHEET 08 OF 10
 REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CLIENT: **CITY OF WHITE ROCK**
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION:
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

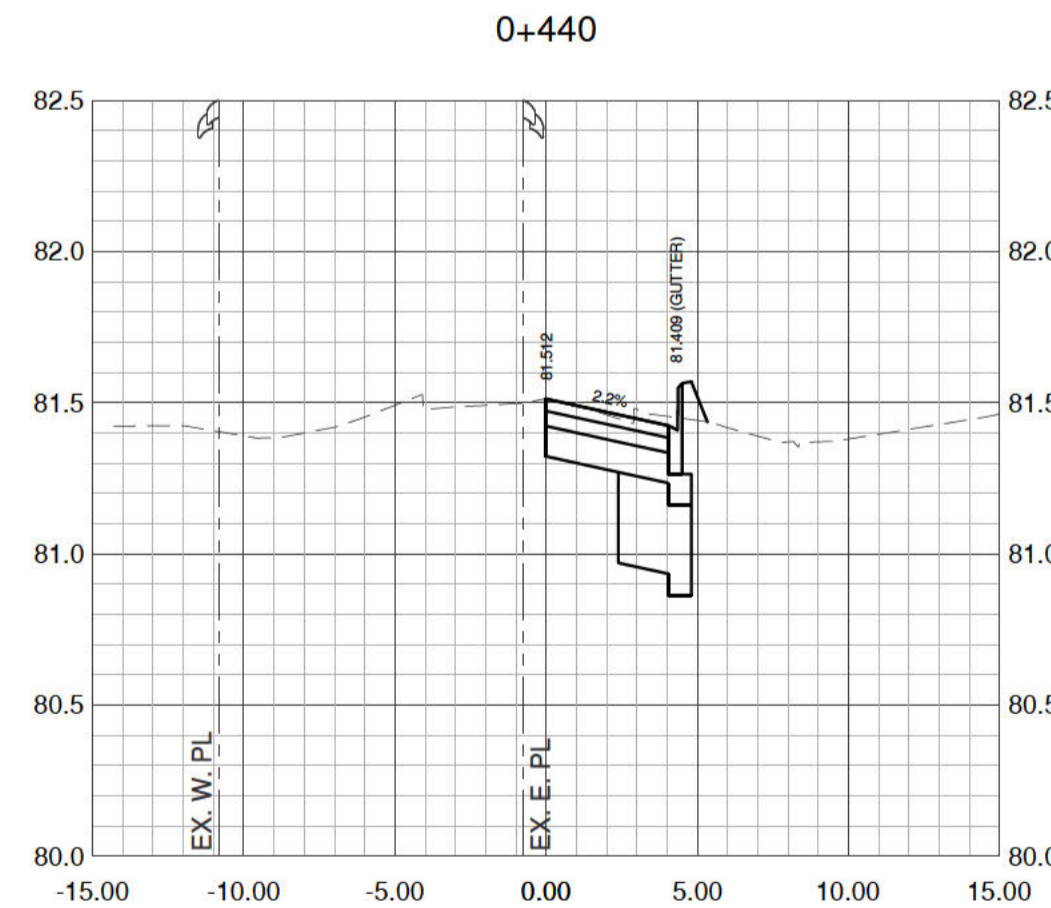
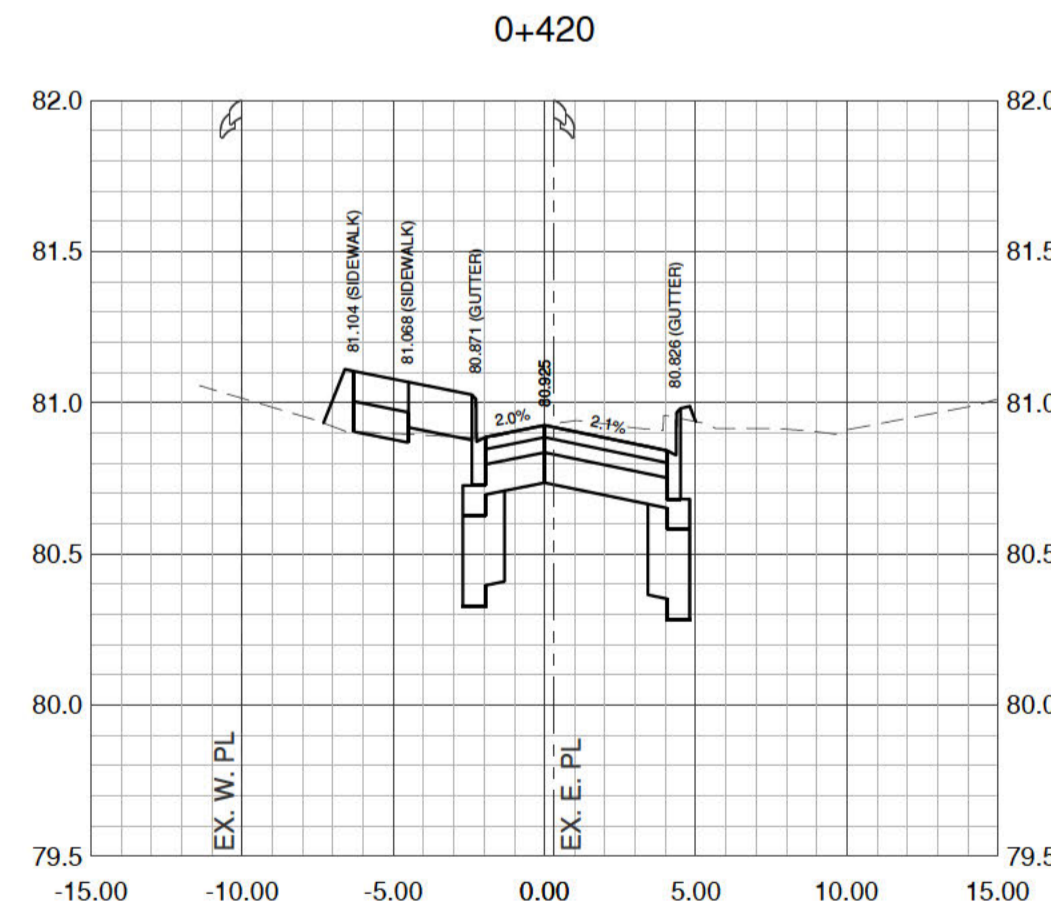
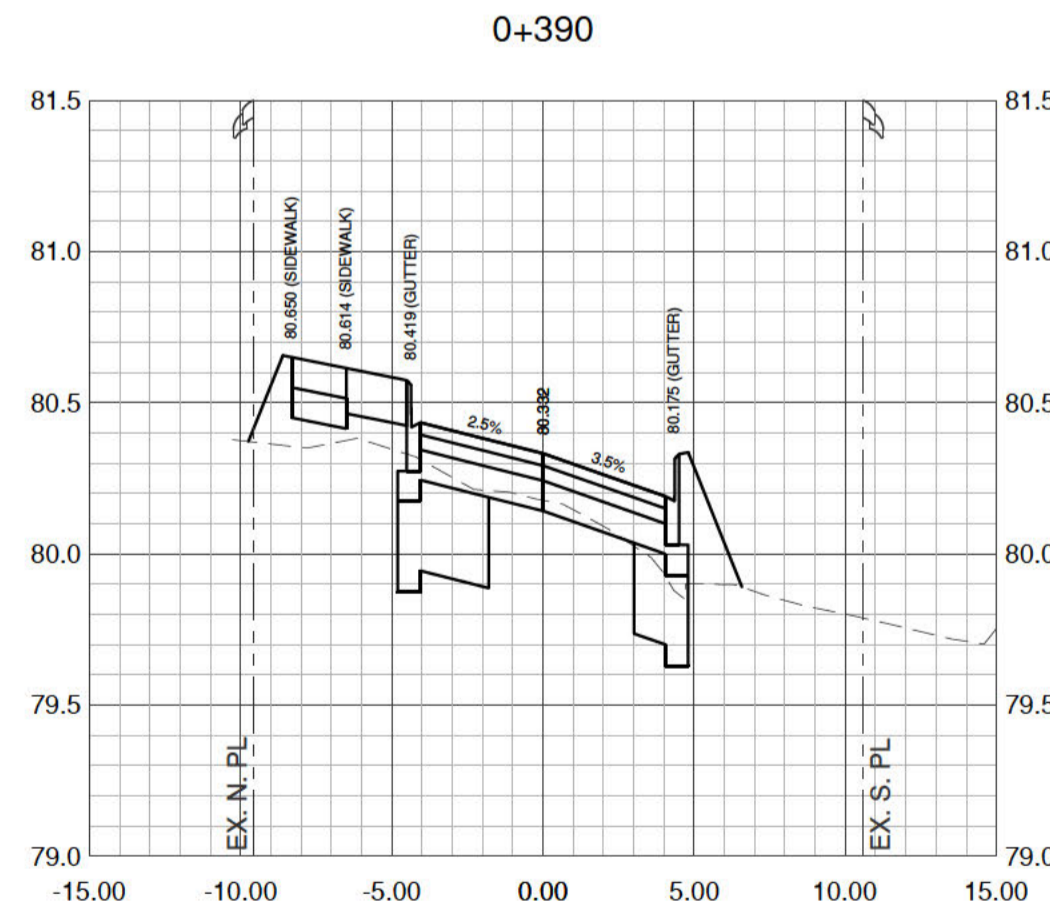
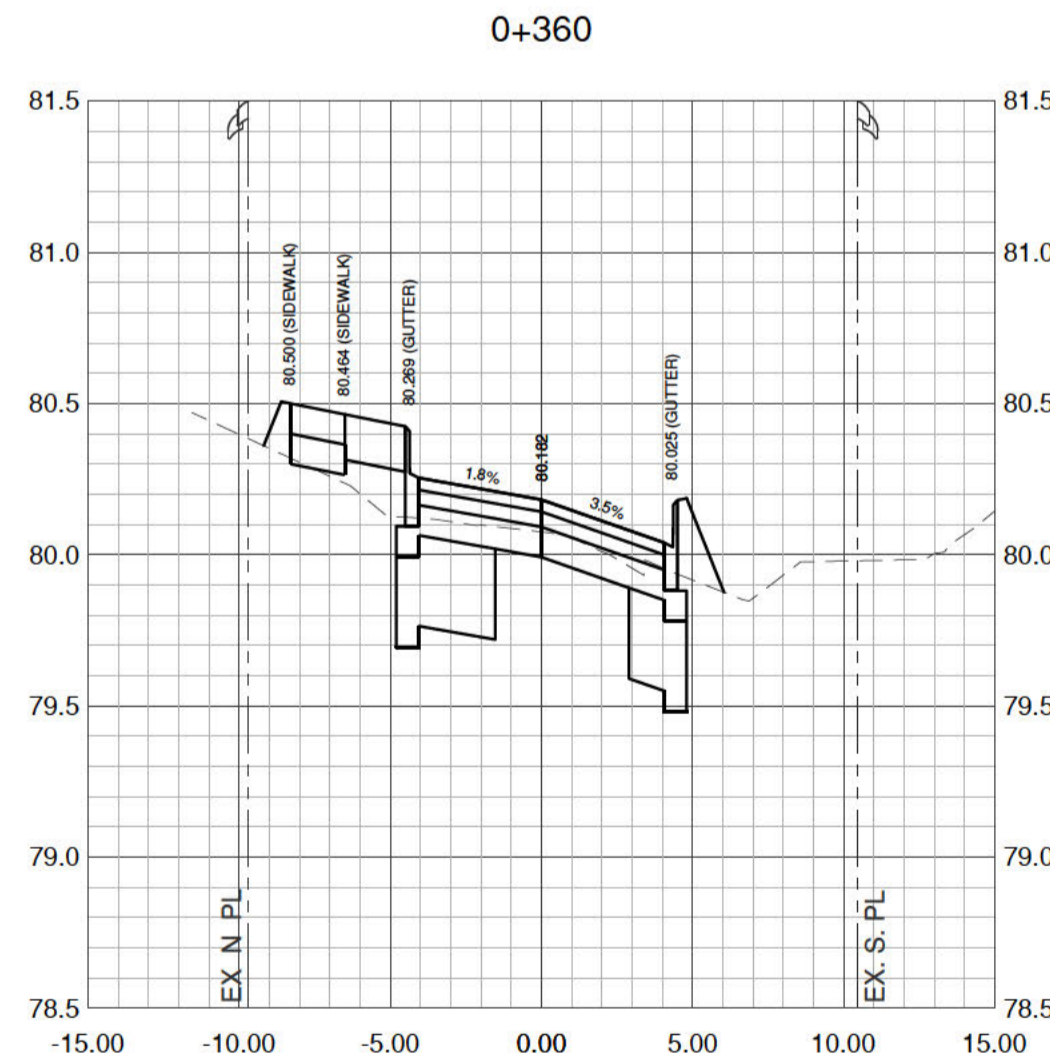
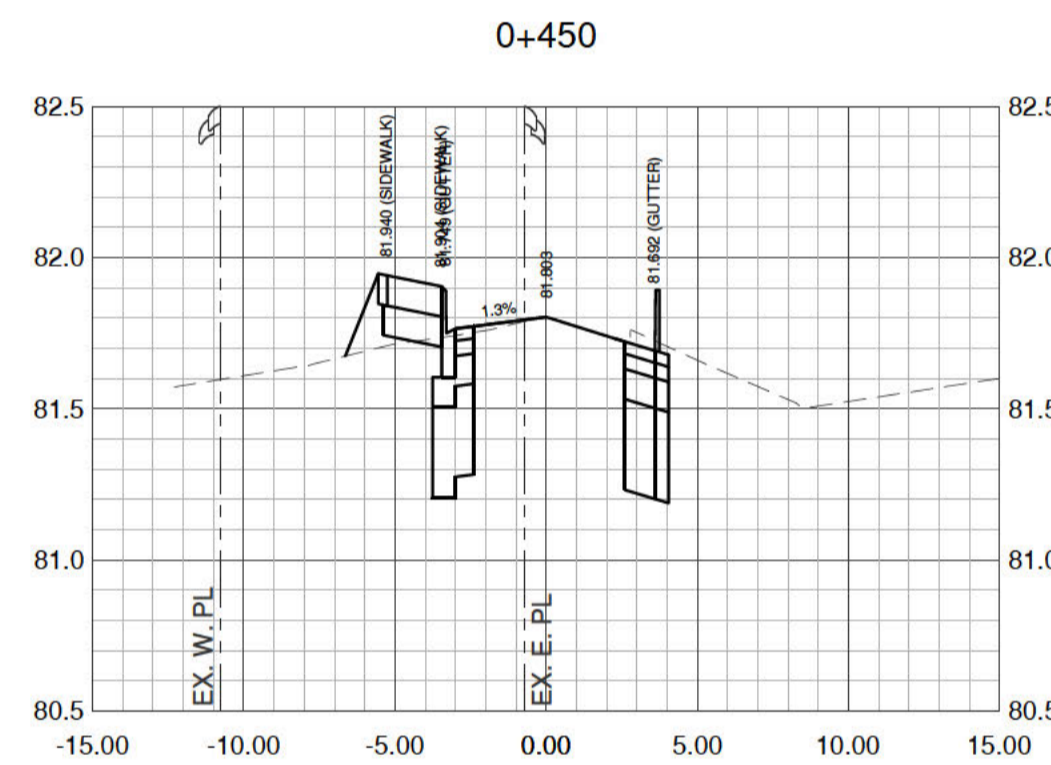
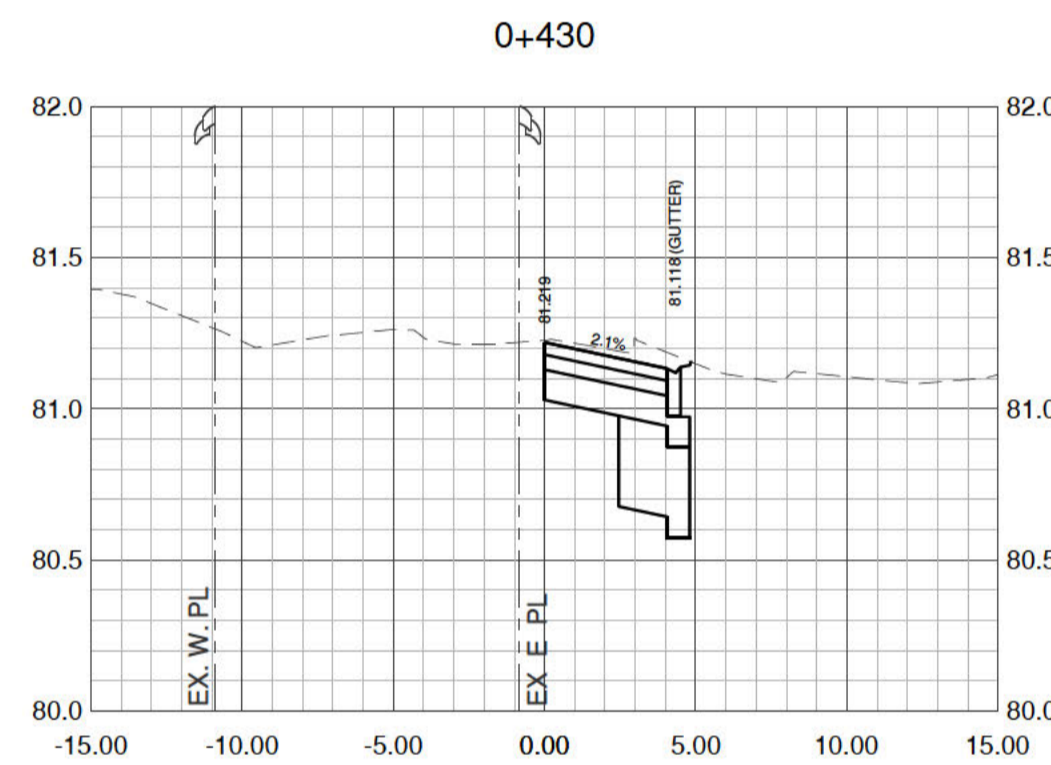
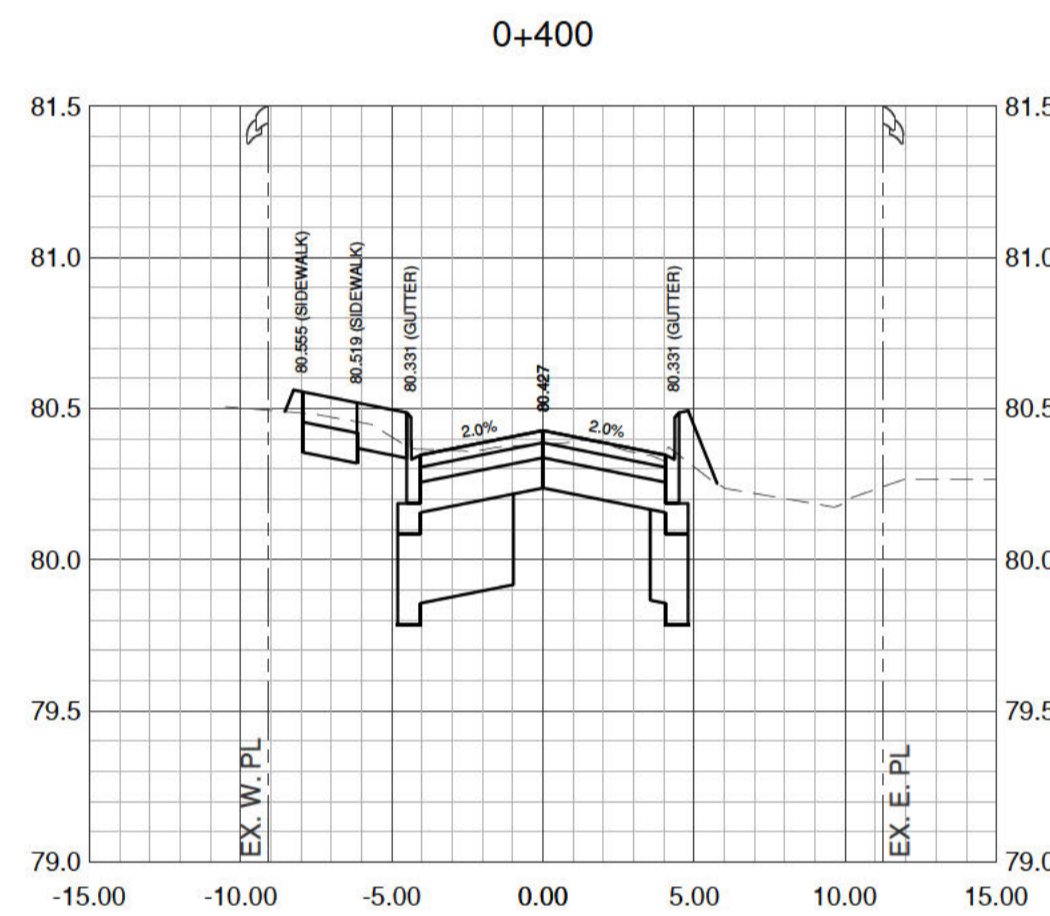
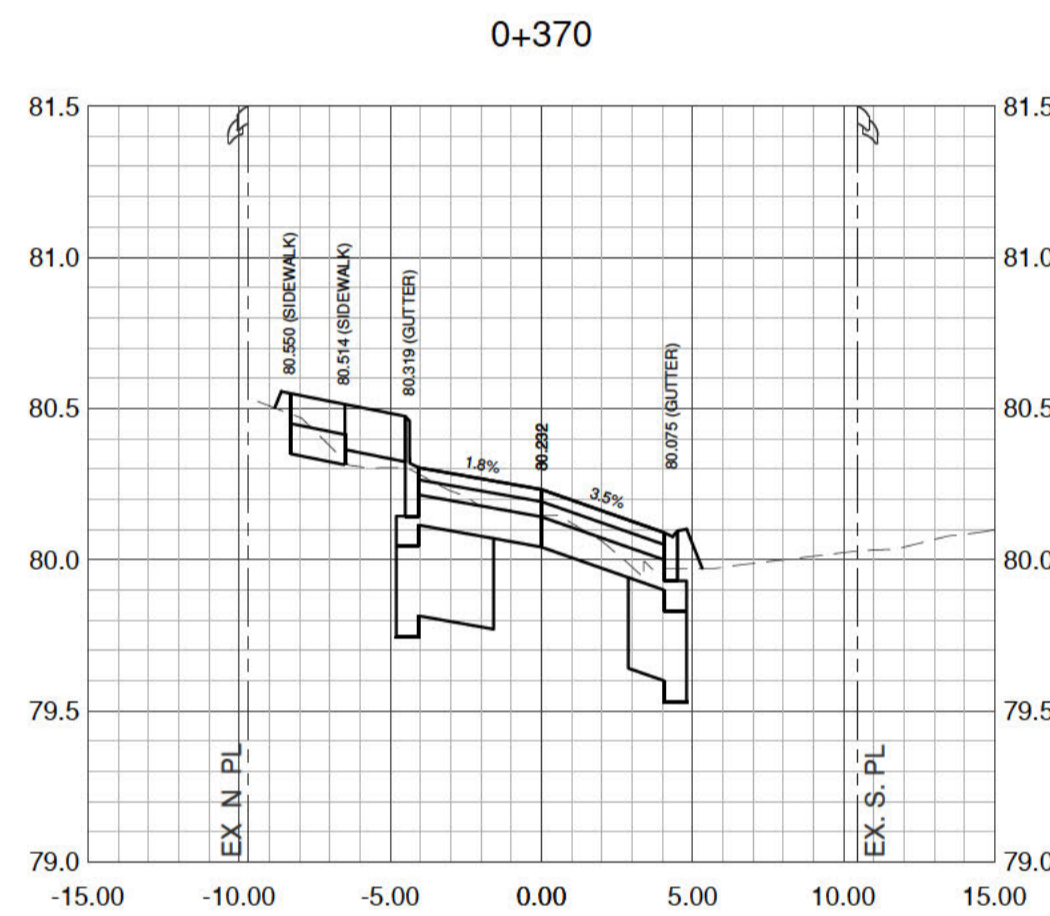
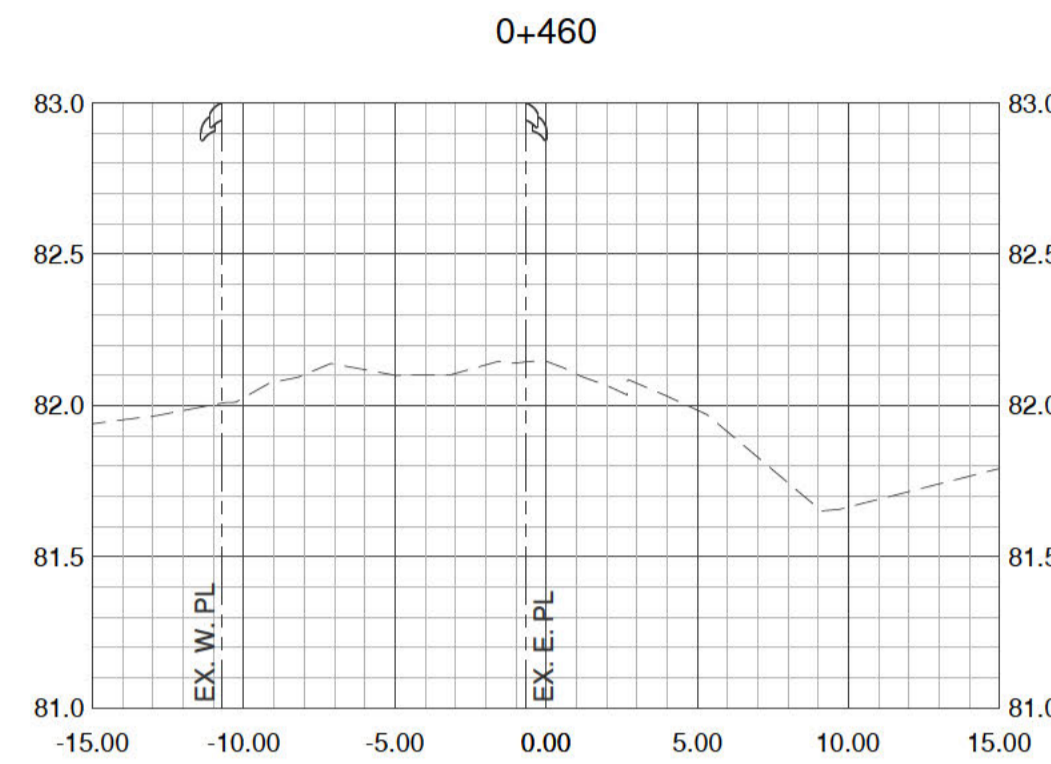
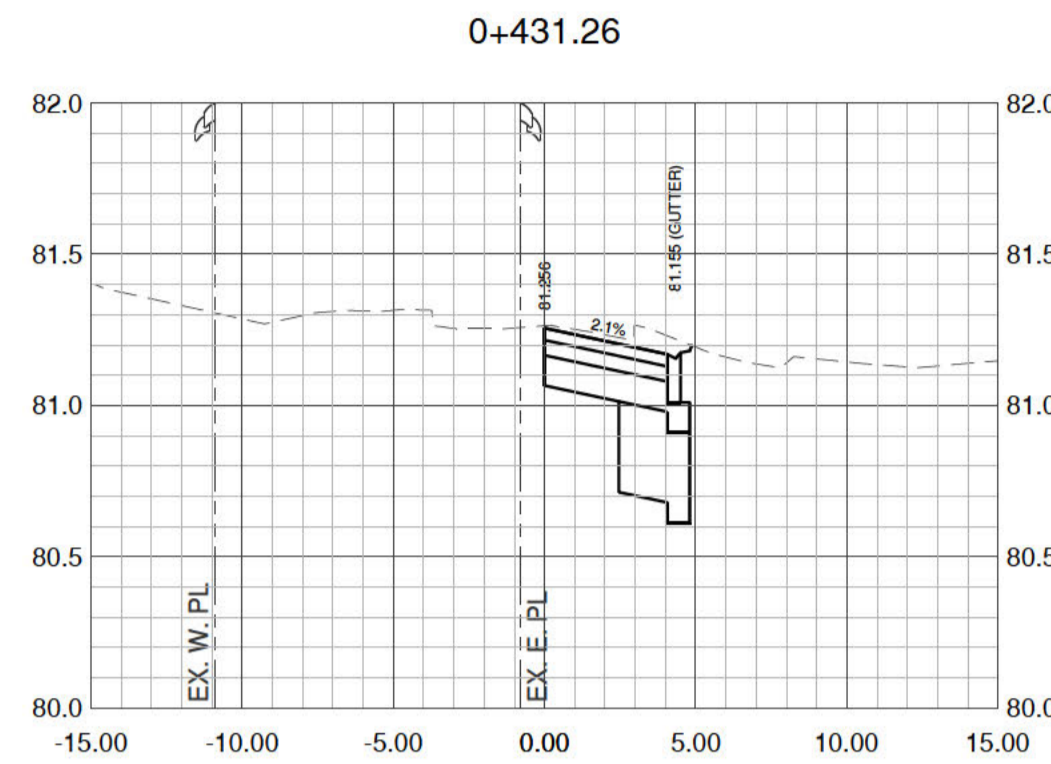
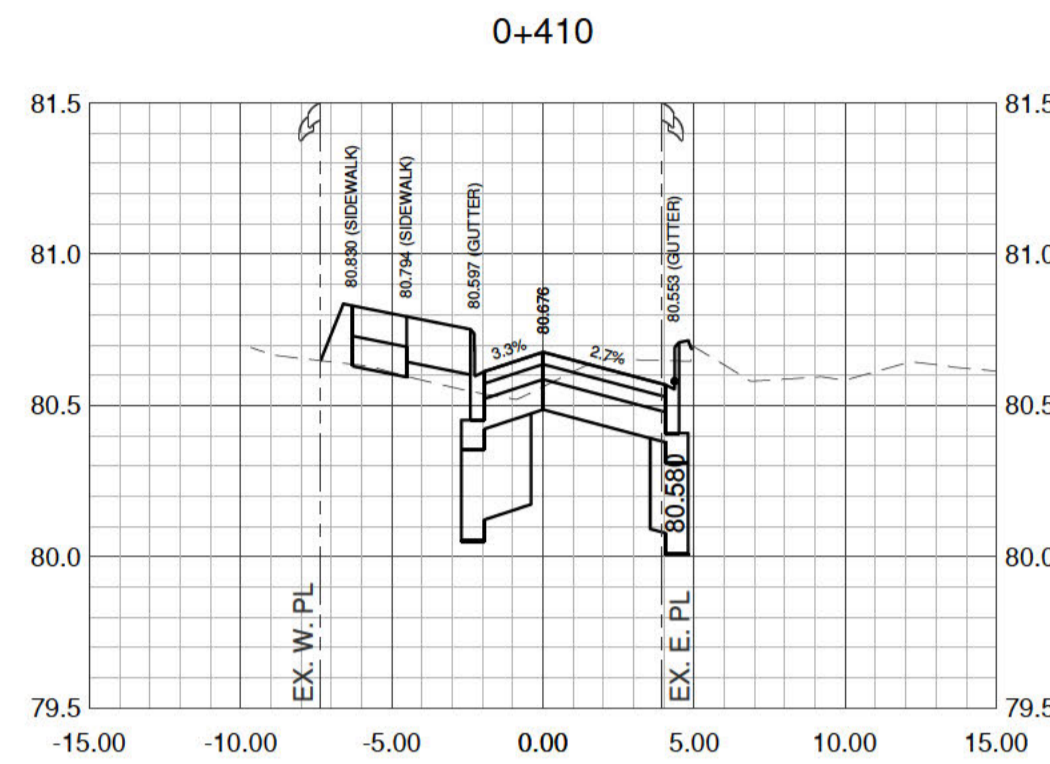
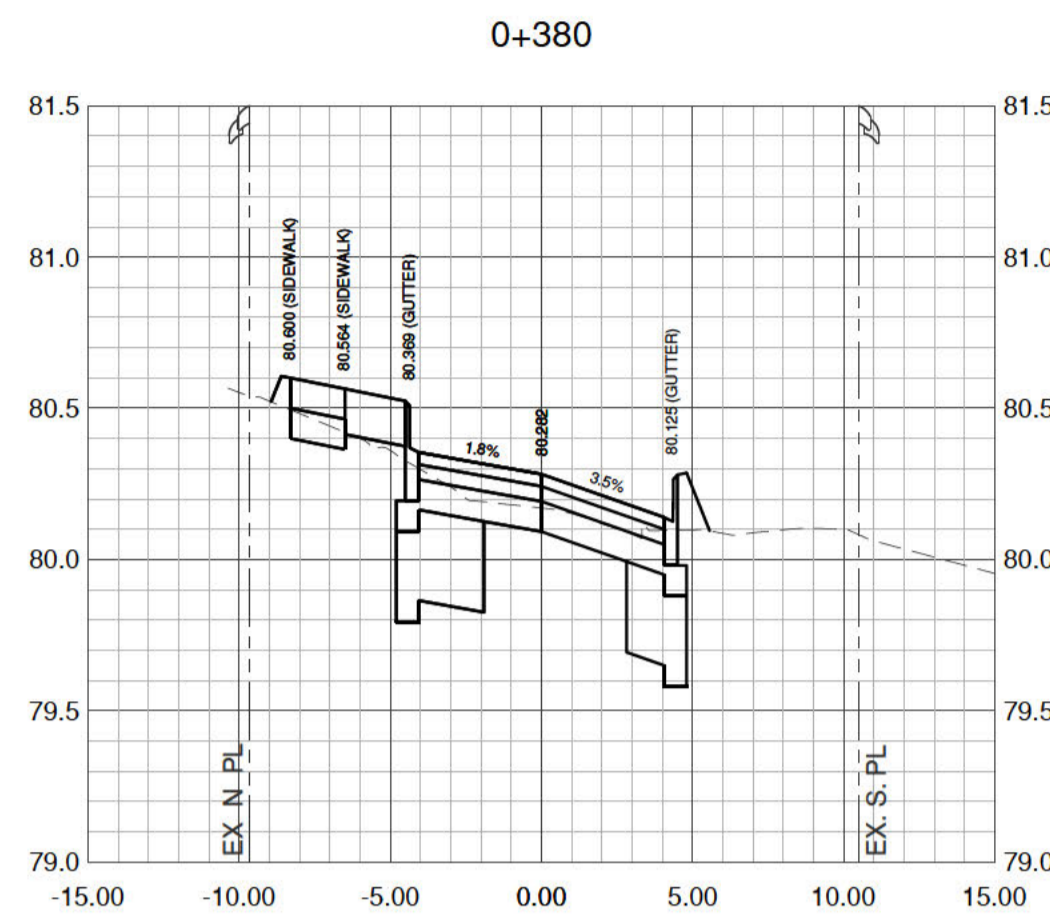
SURVEYED BY: TA
DRAWN BY: SV
DESIGNED BY: RANM
CHECKED BY: RA

SCALES:
H 1:250
V 1:25

DATE: 2020-01-28
DRAWING No.: **20-0063-XS1-3**

SHEET 09 OF 10
REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.



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No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

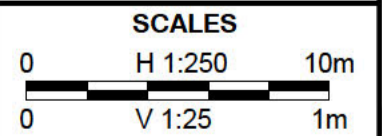


R.F. BINNIE & ASSOCIATES LTD.
 314-9440 202 Street
 Langley, BC V1M 4A6
 TEL 604 574 3336
 BINNIE.com

CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA



DATE	2020-01-28
DRAWING No.	20-0063-XS1-4
SHEET	10 OF 10
REV.	1
DESTROY ALL PRINTS BEARING PREVIOUS No.	

Debbie Johnstone

From: Birk Madsen
Sent: May 13, 2020 3:49 PM
To: Hiep Lo
Cc: Simon Pither
Subject: FW: Blackburn Crescent Preliminary Design & Estimate

Hiep,

See Simons comments below for Blackburn reconstruction.

I have a preconstruction meeting on Brearley Friday so Simon and I can confirm which services to replace then.

Regards.

Birk

From: Simon Pither <SPither@whiterockcity.ca>
Sent: May 13, 2020 3:15 PM
To: Birk Madsen <BMadsen@whiterockcity.ca>
Cc: Saad Jasim <SJasim@whiterockcity.ca>
Subject: RE: Blackburn Crescent Preliminary Design & Estimate

Hi Birk,

here are a couple of things that should be done

1. undersized services on the North side of Blackburn Cres should be replaced to 38 mm – I think there are 4 lots left as to not have to disturb the new roadway after construction to replace them
2. Check Hydrant spacing and at the very least install new hydrant at the east end near High St

Simon

From: Birk Madsen
Sent: Wednesday, May 13, 2020 1:58 PM
To: Simon Pither <SPither@whiterockcity.ca>
Cc: Saad Jasim <SJasim@whiterockcity.ca>
Subject: FW: Blackburn Crescent Preliminary Design & Estimate

Simon,

Any water works issues in this road reconstruction area? I will be updating the watermains near well #4.

Regards.

Birk

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: May 13, 2020 11:23 AM
To: Srood Omer <SOmer@whiterockcity.ca>; Birk Madsen <BMadsen@whiterockcity.ca>
Subject: FW: Blackburn Crescent Preliminary Design & Estimate

Hi Gents,

Can you provide your comments, ideally I would like to compiled our comments in one.

Thank you

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Michael Hill <MHill@binnie.com>

Sent: May 13, 2020 9:21 AM

To: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>

Cc: Hiep Lo <HLo@whiterockcity.ca>

Subject: Blackburn Crescent Preliminary Design & Estimate

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Dustin, Rosaline,

Attached is the preliminary design and cost estimate for Blackburn. Please review and comment. Let us know if you'd like to meet to discuss. We won't proceed with further work until we have direction from you.

Thanks,



Michael Hill, ASCT, CCA

Project Manager

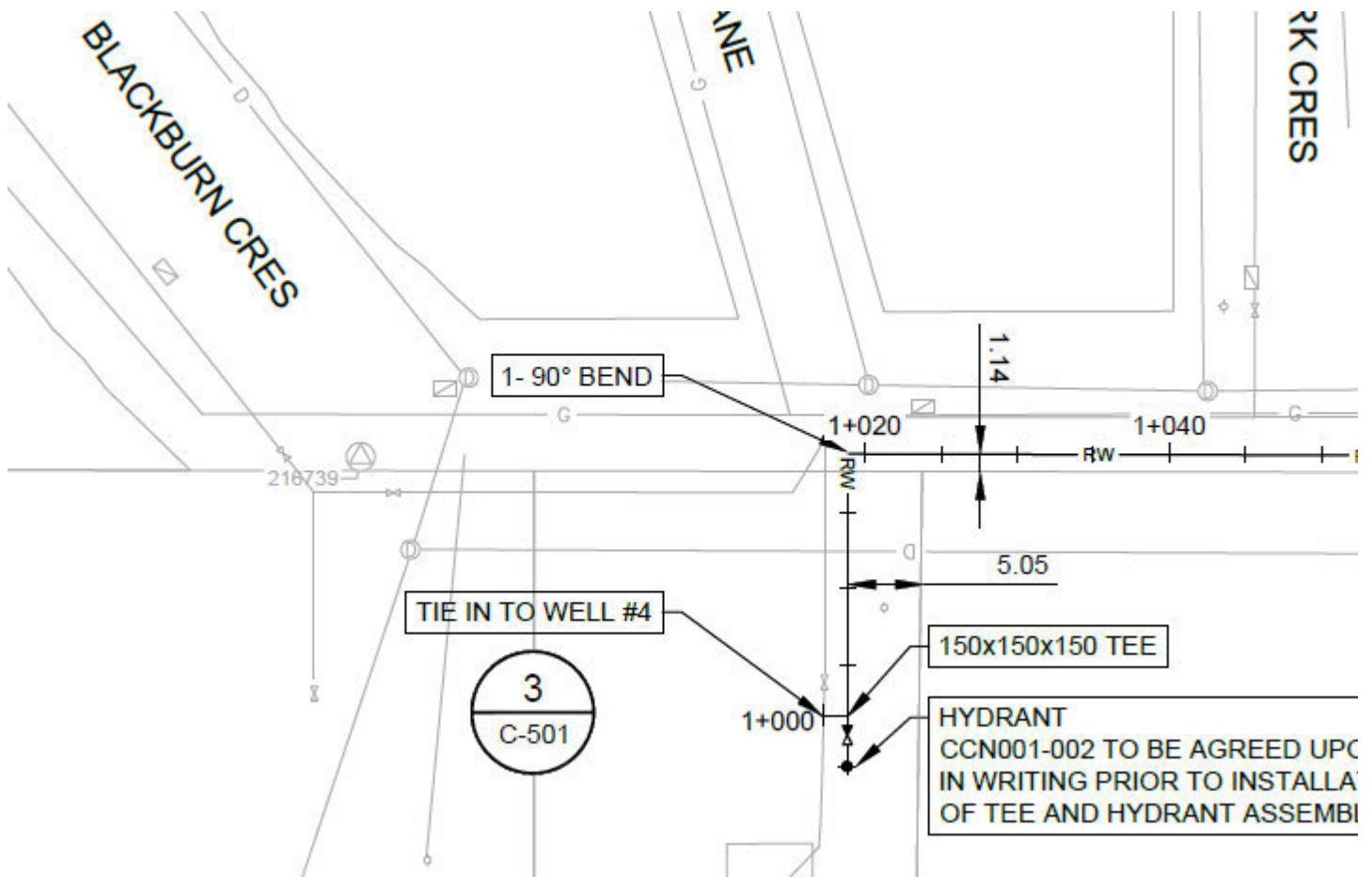
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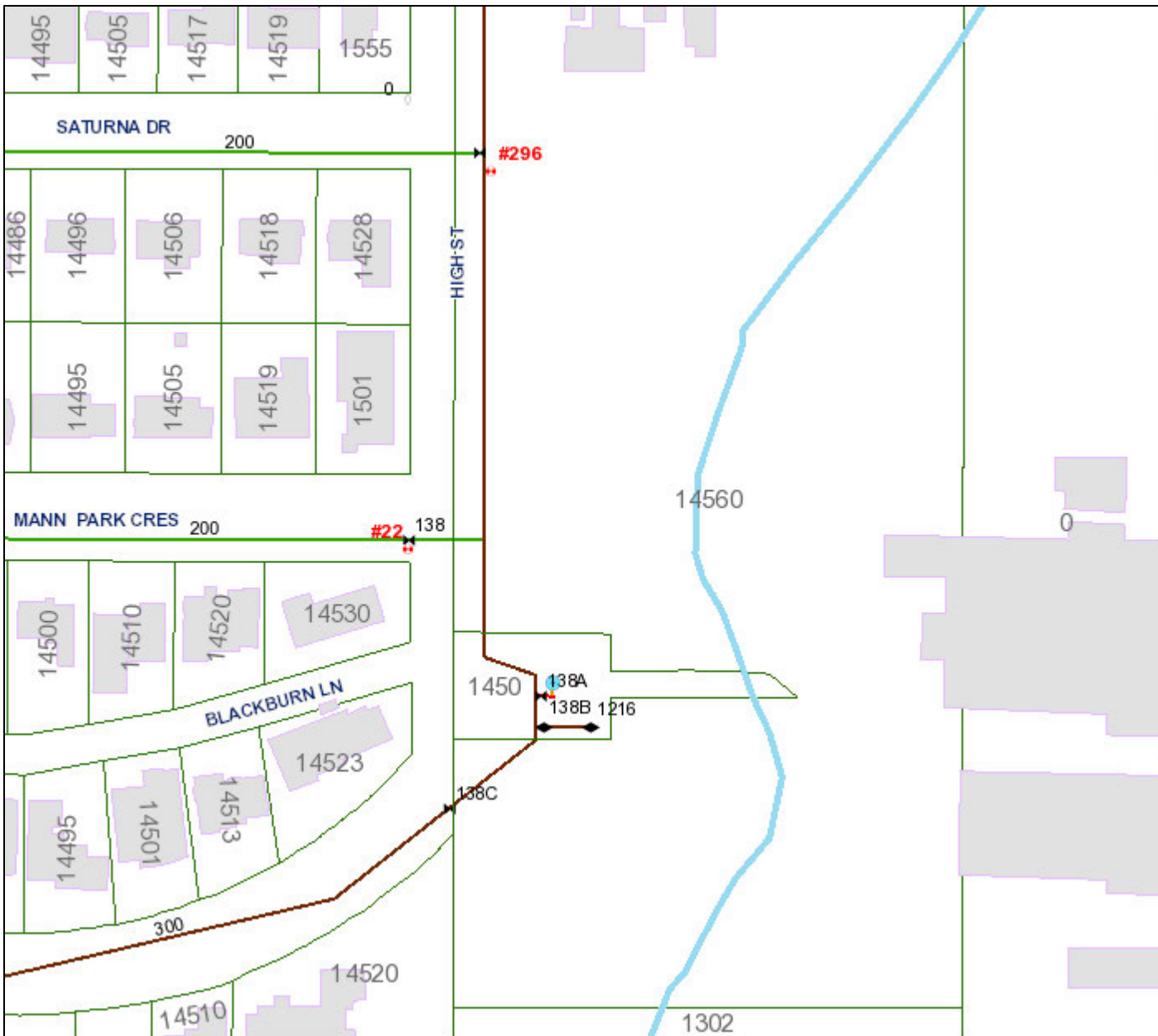
I recently updated GIS with the 300mm watermain on High Street. It looks like the base plan was derived prior to this so refer to the attached PDF.
 Please revise the drawing with these changes along with other comments you get from Hiep.
 Call me if there any questions or contradictions in the drawings.
 Regards.

BIRK MADSEN, A.Sc.T.
 Engineering Technologist, City of White Rock
 877 Keil Street, White Rock, BC V4B 4V6
 Tel: 604.541.2192









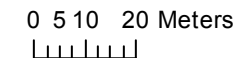
Legend

- Address Labels 1:1000
- Street Names
- Streams
- Railway
- Ocean
- Building Outlines
- Lots Boundaries
- Air Valve
- Blow Off
- Valve with Label
- Hydrant with Label
- PRV
- Reservoir
- Valves**
 - Closed
 - Open
 - Abandoned
 - Well
- Water Main (Diameter)**
 - 25 mm (1 inch)
 - 50 mm (2 inch)
 - 100 mm (4 inch)
 - 150 mm (6 inch)
 - 200 mm (8 inch)
 - 250 mm (10 inch)
 - 300 mm (12 inch)



High Street: 300mm Watermain

Scale: 1:1,489



The data provided is compiled from various sources and IS NOT warranted as to its accuracy or sufficiency by the City of White Rock. This information is provided for information and convenience purposes only. Lot sizes and legal descriptions must be confirmed at the Land Title Office.

Debbie Johnstone

From: Jim Gordon
Sent: May 20, 2020 3:10 PM
To: Redacted S. 22
Subject: Blackburn Crescent

Hi Redacted S. 22

I phoned Redacted S. 22, one of your neighbours to advise that we are not able to get the Blackburn Crescent design finalized in time to construct the project this year. The COVID-19 crisis has made our interactions with designers limited.

Sorry about this, we plan to do the project next year.

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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Debbie Johnstone

From: Michael Hill <MHill@binnie.com>
Sent: May 22, 2020 10:24 AM
To: Hiep Lo
Cc: Birk Madsen; Srood Omer
Subject: RE: Blackburn Crescent Preliminary Design & Estimate

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Thanks Hiep. Should we expect more comments, or should we proceed with these edits?

Michael Hill, ASCT, CCA

Project Manager

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From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Friday, May 22, 2020 10:14 AM
To: Michael Hill <MHill@binnie.com>
Cc: Birk Madsen <BMadsen@whiterockcity.ca>; Srood Omer <SOmer@whiterockcity.ca>
Subject: RE: Blackburn Crescent Preliminary Design & Estimate

Hi Mike,

Please see attached 1st round of comments.

Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Michael Hill <MHill@binnie.com>
Sent: May 13, 2020 9:21 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>
Subject: Blackburn Crescent Preliminary Design & Estimate

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Dustin, Rosaline,

Attached is the preliminary design and cost estimate for Blackburn. Please review and comment. Let us know if you'd like to meet to discuss. We won't proceed with further work until we have direction from you.

Thanks,



Michael Hill,AScT, CCA

Project Manager

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From: [Rosaline Choy](#)
To: [Hiep Lo](#)
Cc: [Srood Omer](#)
Subject: FW: Blackburn services
Date: June 18, 2020 10:22:37 AM
Attachments: [image001.png](#)
[image002.jpg](#)

Hi Hiep,
Can you please send Mike this info?
Thanks,

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Michael Hill [mailto:MHill@binnie.com]
Sent: June 15, 2020 2:49 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Nazeer Mojaab <NMojaab@binnie.com>; Dustin Abt <DAbt@whiterockcity.ca>
Subject: Blackburn services

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Hi Rosaline,
We're addressing your comments on the Blackburn drawings, but I wonder if you could have someone send us any info you might have on the locations of storm/sanitary/water services to the properties?
Thanks,



Michael Hill, ASCT, CCA
Project Manager, Associate
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314-9440 202 Street, Langley, BC V1M 4A6
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From: [Birk Madsen](#)
To: [Michael Hill](#)
Cc: [Srood Omer](#); [Rosaline Choy](#); [Hiep Lo](#)
Subject: 14400 Blackburn Services (Storm & Sanitary)
Date: June 18, 2020 2:40:29 PM
Attachments: [14400 Blk Blackburn Services.xlsx](#)
[image001.jpg](#)

Hi Mike,

See attached. I have bolded the services that say it is inactive?? Not sure if that is correct. Your surveyor should be picking up what is in the field to confirm.

Regards.

BIRK MADSEN, A.Sc.T.

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2192



BLACKBURN CRESCENT SERVICING

18-Jun-20

ADDRESS	STORM	Size (mm)	Depth (ft)	SANITARY	Size (mm)	Depth (ft)
14407 Blackburn Crescent	4' west of SE PL	150	3	5' West of SE PL		5
14417				4' west of se corner		5
14423				27' East of SW PL	100 Clay	4.5
14433	2' East of SW PL	100 PVC	2	7' West of SE PL	100 Clay	3
14441						
14447	9' East of SW PL	100 Egg tile	1.5	7' East of SW PL	100 Clay	3.5
14457	11' East of SW PL	100ABS	2	3' East of SW PL	100 Clay	4
14475						
14485	7' west of se property	100	2	29' east of sw propert	150	6
14495				60' West of SE PL	100 Clay	3
14501						
14513	9.5 E OF S/W PL	100	2	11.5 E OF S/W PL	100	2
14523	15' east of sw corner	100 PVC	3	18' east of sw corner	100 PVC	3.5
14418						
14426	9' East of SW PL	100 PVC	1	27' East of SW PL	100 Clay	2
14432				29' east of sw corner		4
14440				29.5 feet W of SEPL	clay	3
14448	68' West of SE PL		2	14' West of SE PL		5
14458	4' West of SE PL	100 PVC	3	40' West of SE PL	100 PVC	5
14462	36' east of sw corner	100 PVC	2	37' east of sw corner	100 PVC	3
14468	34' West of SE PL	100 PVC	2	35' West of SE PL	100 PVC	4.5
14478						
14486						
14500	3.5' east of sw corner			29' west of se propert	100 vc	3
14510	7ft e of sw	100 PVC	3.5	6ft e of southwest	100 PVC	3.5
14520	2' East of SW PL	100	2	1' East of SW PL	100	2

Inactive?

Debbie Johnstone

From: Rosaline Choy
Sent: June 18, 2020 11:28 AM
To: Hiep Lo
Cc: Srood Omer; Birk Madsen
Subject: RE: Blackburn services

Hi Hiep,

Can Binnie advise if all addresses missing IC invert information and water connection information?

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Hiep Lo
Sent: June 18, 2020 11:04 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Srood Omer <SOmer@whiterockcity.ca>; Birk Madsen <BMadsen@whiterockcity.ca>
Subject: RE: Blackburn services

Hi Rosaline,

The information I would have would be available to Binnie on GIS, unless we have to request building plans from Building Department for all the houses on Blackburn Avenue. This will include sanitary, storm and water connection for each house.

Please advise

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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Debbie Johnstone

From: Michael Hill <MHill@binnie.com>
Sent: June 18, 2020 3:02 PM
To: Birk Madsen
Cc: Srood Omer; Rosaline Choy; Hiep Lo
Subject: RE: 14400 Blackburn Services (Storm & Sanitary)

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Thanks Birk, good stuff, appreciate it.

Michael Hill,AScT, CCA

Project Manager, Associate
D +1 (604) 579-0605

From: Birk Madsen <BMadsen@whiterockcity.ca>
Sent: Thursday, June 18, 2020 2:40 PM
To: Michael Hill <MHill@binnie.com>
Cc: Srood Omer <SOmer@whiterockcity.ca>; Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: 14400 Blackburn Services (Storm & Sanitary)

Hi Mike,

See attached. I have bolded the services that say it is inactive?? Not sure if that is correct. Your surveyor should be picking up what is in the field to confirm.

Regards.

BIRK MADSEN, A.Sc.T.

Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2192



Debbie Johnstone

From: Rosaline Choy
Sent: July 3, 2020 2:40 PM
To: Hiep Lo
Cc: Dustin Abt
Subject: FW: Blackburn Cres paving & utility work

Follow Up Flag: Follow up
Flag Status: Completed

Hi Hiep,

Can you please respond to the resident on behalf of the Director of Engineering & Municipal Operations?

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Rosaline Choy
Sent: July 2, 2020 9:41 AM
To: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Agreed, we are still in preliminary design. We do not disclose plans that are in draft form.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Dustin Abt
Sent: July 2, 2020 6:45 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

Hi Rosaline,

This resident is eager to see the plans.

I do not think we should be sending the plans to a resident, we should advise **s.22** that once we have a final design we will be doing info sessions on their block pop up style so everyone gets a chance to look and chat about the design.

My thoughts.

Dustin

From: **Redacted S. 22**
Sent: Wednesday, July 01, 2020 10:55 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

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Hello Jim

Are you able to send me an electronic copy of the plans for the work on Blackburn?

Cheers

Redacted S. 22

From: **Redacted S. 22** >
Sent: May 14, 2020 8:33 AM
To: 'Jim Gordon' <JGordon@whiterockcity.ca>
Cc: 'Dustin Abt' <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Jim

Is the work still planned for this year?

Cheers

Redacted S. 22

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: May 11, 2020 2:31 PM
To: **Redacted S. 22**
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

H **Redacted S. 22**

Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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Subject: Blackburn Cres paving & utility work

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Hi Jim

Can you confirm if this work is still planned for this year? If so, do you have a timeline?

Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.

Cheers

Redacted S. 22

Debbie Johnstone

From: Michael Hill <MHill@binnie.com>
Sent: July 6, 2020 11:29 AM
To: Rosaline Choy
Cc: Hiep Lo; Dustin Abt
Subject: Blackburn sanitary alignment question
Attachments: Blackburn Sanitary Sketch.pdf

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Rosaline,

Please see attached sketch. After our recent CCTV inspection of Blackburn's mains as part of the annual program, we realize that there may be an opportunity to avoid completely removing and replacing the sanitary system and instead relining or bursting three out of the four mains. That would mean leaving the mains and manholes in their current alignment, so we wanted to check that you were ok with that.

Let me know what you think.

Thanks,



Michael Hill, ASCT, CCA

Project Manager, Associate

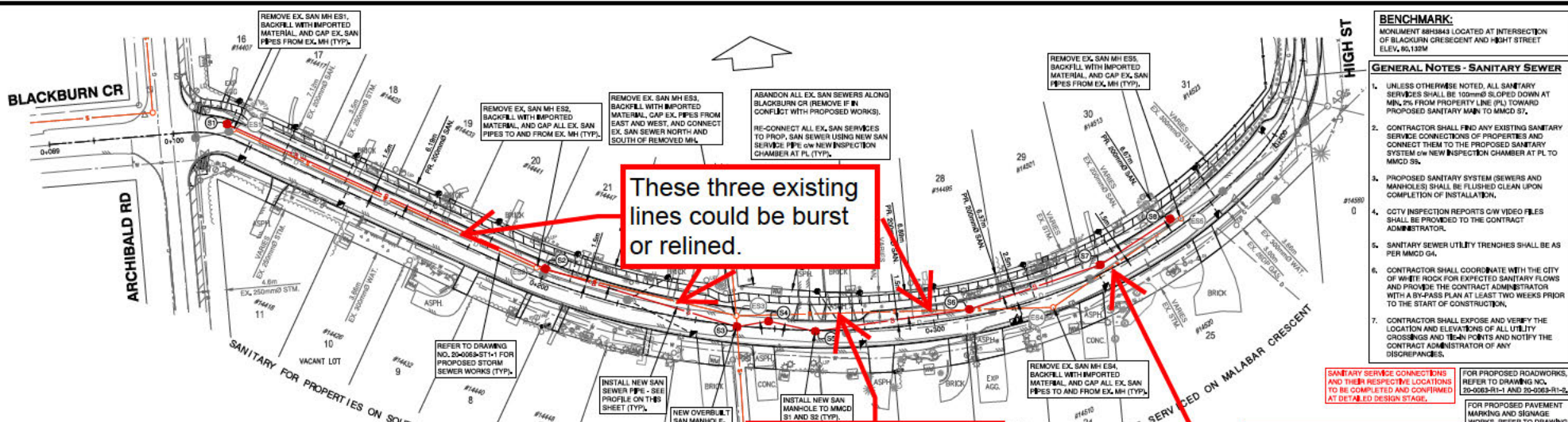
D +1 (604) 579-0605

314-9440 202 Street, Langley, BC V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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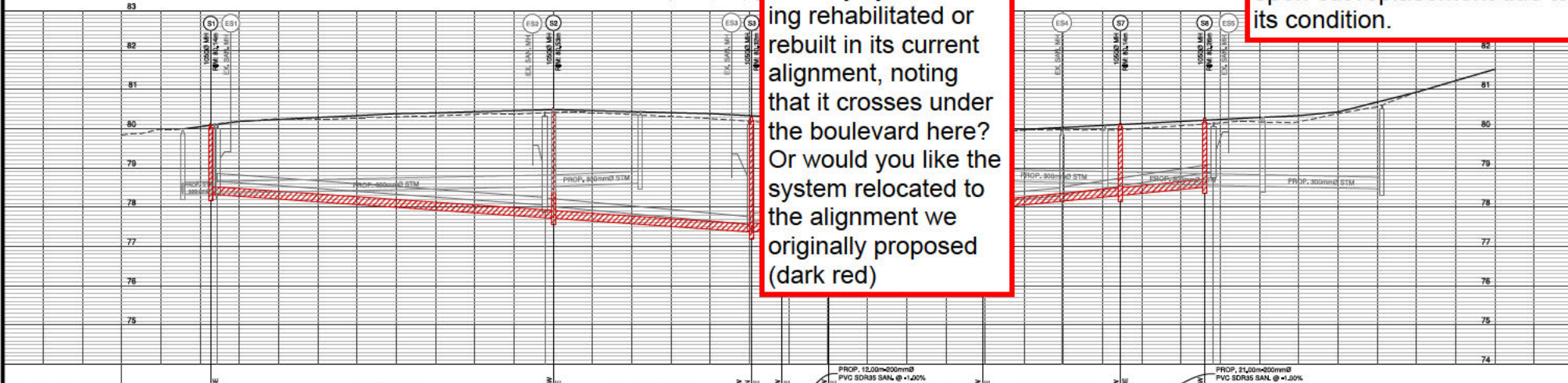


These three existing lines could be burst or relined.

Are you ok with the sanitary system being rehabilitated or rebuilt in its current alignment, noting that it crosses under the boulevard here? Or would you like the system relocated to the alignment we originally proposed (dark red)

This line would likely require open cut replacement due to its condition.

- BENCHMARK:**
MONUMENT #89343 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 86.132M
- GENERAL NOTES - SANITARY SEWER**
- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mmØ SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S1.
 - CONTRACTOR SHALL FIND ANY EXISTING SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM OR NEW INSPECTION CHAMBER AT PL TO MMCD S1.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS ON CIVE OBJECT FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - SANITARY SEWER UTILITY TRENCHES SHALL BE AS PER MMCD G4.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND BEAN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.



PROP. INVERT ELEVATION	EX. INVERT ELEVATION	STATION ALONG BASELINE
78.377 SE	76.500 SE	0+100
PROP. 87.60m x 200mmØ PVC SDR35 SAN. @ 0.70%	EX. 300Ø SAN.	0+100
PROP. 54.17m x 200mmØ PVC SDR35 SAN. @ 0.70%	EX. 200Ø SAN.	0+200
PROP. 54.17m x 200mmØ PVC SDR35 SAN. @ 1.00%	EX. 200Ø SAN.	0+300
PROP. 12.00m x 200mmØ PVC SDR35 SAN. @ +1.00%	EX. 200Ø SAN.	0+300
PROP. 14.00m x 200mmØ PVC SDR35 SAN. @ +1.00%	EX. 200Ø SAN.	0+300
PROP. 34.58m x 200mmØ PVC SDR35 SAN. @ +1.00%	EX. 200Ø SAN.	0+300
PROP. 31.20m x 200mmØ PVC SDR35 SAN. @ +1.00%	EX. 200Ø SAN.	0+300

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

BINNIE
The people behind your infrastructure.

R.F. BINNIE & ASSOCIATES LTD.
314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CITY OF WHITE ROCK
877 KEELE STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

CLIENT

DESIGNED BY SV
CHECKED BY NM

SCALE
H 1:500 20m
V 1:50 2m

DATE 2020-01-08

DRAWING NO.
20-0063-S1-1

SHEET 05 OF 10
REV. 1

DRAFT

Debbie Johnstone

From: Dustin Abt
Sent: July 7, 2020 2:39 PM
To: Hiep Lo; Rosaline Choy
Subject: RE: Blackburn Cres paving & utility work

I would explain more on what the viewing will look like...

Once we have a final design, the plans will be available for viewing. We plan on doing a pop up tent on Blackburn so all the residents can view the plans. Letters will be mailed out with multiple dates so everyone has a chance to view.

Dustin

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Tuesday, July 07, 2020 2:36 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Rosaline, Dustin please see draft response to Redacted S. 22

Hello Redacted S. 22,

I hope all is well and your staying healthy and safe.

I'm responding to you on behalf of the Director of Engineering & Municipal Operations Jim Gordon.

We are still in preliminary design stage and unfortunately we cannot disclose plans that are in draft form.

Once we have a final design, the plans will be available for viewing. I will keep you posted and please feel free to contact me if you have questions or concerns.

Thank you for your understanding.

Kind regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: Wednesday, July 01, 2020 10:55 AM

To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

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Hello Jim
Are you able to send me an electronic copy of the plans for the work on Blackburn?

Cheers

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Regards

Jim

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City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



Debbie Johnstone

From: Rosaline Choy
Sent: July 7, 2020 3:09 PM
To: Dustin Abt; Hiep Lo
Subject: RE: Blackburn Cres paving & utility work

Agreed, please mention the pop up information session. Thanks!

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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Hi Rosaline, Dustin please see draft response to [REDACTED]

Hello [REDACTED]

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Kind regards,

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Is the work still planned for this year?

Cheers

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Sent: May 11, 2020 2:31 PM
To: Redacted S. 22
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi [Redacted S. 20]:

Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards

Jim

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From: [Redacted S. 21] >
Sent: Monday, May 11, 2020 2:17 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Cres paving & utility work

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Hi Jim

Can you confirm if this work is still planned for this year? If so, do you have a timeline?

Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.

Cheers

[Redacted S. 22]

Debbie Johnstone

From: Redacted S. 22
Sent: July 8, 2020 4:57 PM
To: Hiep Lo
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks Hiep

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Wednesday, July 8, 2020 9:52 AM
To: Redacted S. 22
Cc: Rosaline Choy; Dustin Abt; Jim Gordon
Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22
Thank you for the email reply.
We are anticipating a pop up information tent session sometime in September or October.
Thank you again for the email.
Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: July 7, 2020 6:49 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

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Thanks Hiep. Do you have an anticipated date when the info tent will be held?

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Tuesday, July 7, 2020 3:35:12 PM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon

<JGordon@whiterockcity.ca>

Subject: FW: Blackburn Cres paving & utility work

Hello

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I'm responding to you on behalf of the Director of Engineering & Municipal Operations Jim Gordon.

We are still in preliminary design stage and unfortunately we cannot disclose plans that are in draft form.

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Thank you for your understanding.

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Cc: Dustin Abt <DAbt@whiterockcity.ca>

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Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.

Cheers

Redacted S. 22

Debbie Johnstone

From: Michael Hill <MHill@binnie.com>
Sent: September 4, 2020 1:51 PM
To: Rosaline Choy
Cc: Birk Madsen; Dustin Abt; Hiep Lo
Subject: Blackburn design for review
Attachments: Blackburn Cres - Preliminary - Drawings incl. City Comments (2020-08-25).pdf; MMCD-P CE - Class C Preliminary incl. City Comments - Blackburn Cr (2020-08-25).pdf; Preliminary - City Comments (Addressed 2020-08-25).pdf; Response Form for City Comments (Update 2020-08-18).pdf

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rosaline,

Attached are our design drawings and cost estimate for Blackburn, based on your most recent comments.

Please address any questions in our red notes.

I would say we are at about 90% design. There would be minimal effort remaining after this round of comments to bring it to tender stage. Let us know if you would like us to begin tender documents.

Thanks,



Michael Hill, ASCT, CCA

Project Manager, Associate

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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CITY COMMENTNS
RECEIVED 2020-05-22

CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAMT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES AND DETAILSSS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D1-1	01
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	03
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	04
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	05
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	06
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	07
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	08
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	10



The people behind your infrastructure.

R.F. BINNIE & ASSOCIATES LTD.
314-9440 202 Street
Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

**FOR REFERENCE
PURPOSES ONLY**



Can General Notes sheet be separate from Construction Detail sheet?

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS. WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, AND FORTIS BC PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
3. ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED. WHERE APPLICABLE, TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
4. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
6. THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
7. OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
8. ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING ON SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPLICABLE AGENCIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, MAIN, UNDERGROUND ELECTRICAL, AND/OR TELEPHONE DUCTS, LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
12. SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
13. THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

SANITARY AND STORM SEWER NOTES:

1. THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH-LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
2. THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.

3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
4. ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
5. ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
6. ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
7. ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD, UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY SEWER SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
9. ALL SANITARY SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURERS SPECIFICATIONS.
10. ALL WYES SHALL BE MANUFACTURED.
11. THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINE TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
12. THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PAC" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
14. THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS PRIOR TO TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

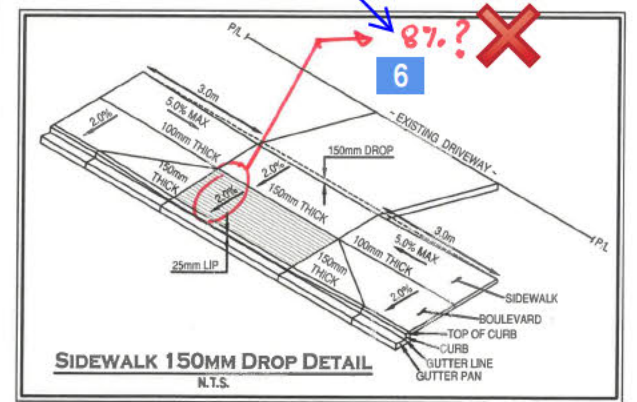
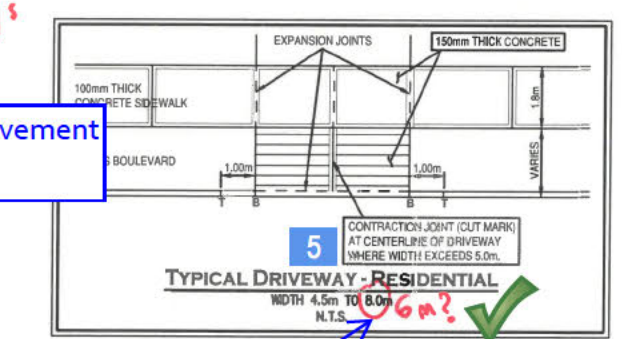
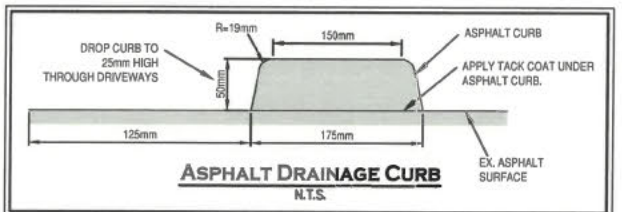
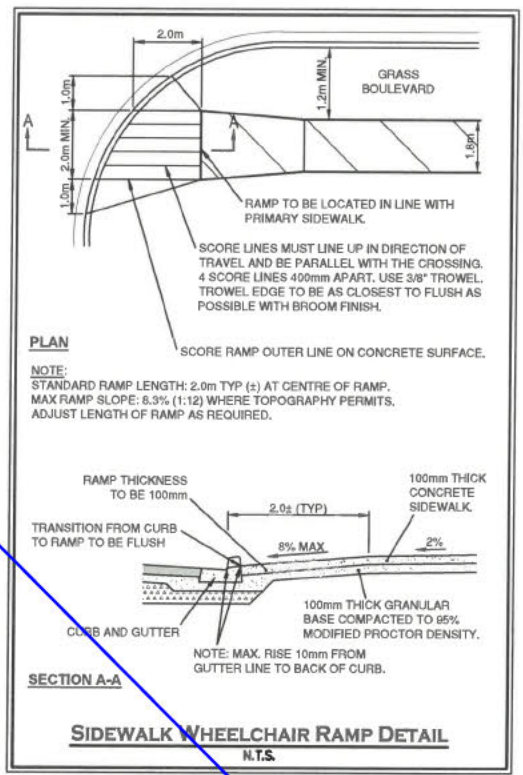
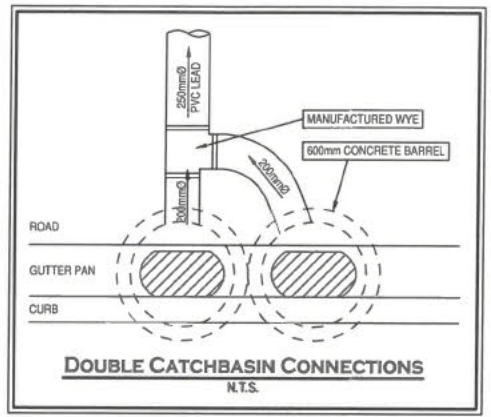
1. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER ANY WATER BODIES.
2. THE CONTRACTOR SHALL INSTALL TEMPORARY FILTER FABRIC INSTALLED TO PREVENT SEDIMENT FROM ENTERING THE CITY OF WHITE ROCK STORM SEWERS DURING CONSTRUCTION. THE FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION WORK IS COMPLETED.
3. THE CONTRACTOR SHALL KEEP ROADS CLEAN DURING CONSTRUCTION. SWEEPERS SHALL BE USED TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR. THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
4. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.
2. THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.
3. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED AS PER MMCD, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS.
4. THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED PRIOR TO CONSTRUCTION AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO REMOVAL.
5. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP IN RED COLOUR AND UPDATED ON A DAILY BASIS TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
2. THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
3. THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.



Also included on the roadworks sheets

Sidewalk drop allows uniform 2% driveway across crossing

2 - Roadwork notes

3 - Paving notes

4 - Pavement Markings

Asphalt paving works are per MMCD specifications, and we typically do not provide general notes specifically for paving.

Also included on the pavement marking sheet

Fl note from MMCD DG (2014):
 Driveways - min 4.5m
 Driveways - max:
 6.5m for one-way access
 11.0m for two-way access
 (For urban residential from 4.0 to 7.5)

FOR REFERENCE PURPOSES ONLY

SUMMARY OF MATERIAL TESTING FREQUENCY		
MATERIAL	MMCD REFERENCE	TESTING FREQUENCY
CONCRETE CURB AND SIDEWALK	03 30 53 - 1.6,2	1 PER 10m ³ MIN. 1 PER DAY PER SITE LOCATION
SIEVE ANALYSIS AND PROCTORS	31 05 17 - 1.5,2	1 PRIOR TO COMMENCING WORK 1 EVERY 1,000 TONNES
TRENCH (DENSITIES)	31 23 01 - 3.5,4,4	1 PER 50 LINEAL METRE PER 600mm THICK LIFT
ROADWAY EXCAVATION, EMBANKMENT AND COMPACTION (DENSITIES)	31 24 13 - 3.5,7	1 PER 250m ³ PER 300mm THICK LIFT
GRANULAR SUBBASE (DENSITIES)	32 11 16,1 - 3.3,6	1 PER 150mm ² OF MATERIAL PLACED PER 150mm THICK LIFT
GRANULAR BASE (DENSITIES)	32 11 23 - 3.3,6	1 PER 150mm ² OF MATERIAL PLACED PER 150mm THICK LIFT PROOF ROLL PRIOR TO PAVING AND PLACEMENT OF CONCRETE CURB AND SIDEWALKS
HOT-MIX ASPHALT (CONVENTIONAL)	32 12 16 - 1.6,3-9	1 TEST PER EACH ASPHALT TYPE MIN. 1 PER DAY PER SITE LOCATION
TOPSOIL	32 91 21 - 1.5,2	1 PRIOR TO COMMENCING WORK

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CLIENT: **CITY OF WHITE ROCK**
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION: **BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS**
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
NOTES AND DETAILSSS

SURVEYED BY: TA
DRAWN BY: SV
DESIGNED BY: NM
CHECKED BY: RA

SCALES: NOT TO SCALE

DATE: 2020-05-08
DRAWING No.: **20-0063-D1-1**

SHEET 01 OF 10 REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

DRAFT

See Binnie response in Response Form

7 why the SW is not straight at several locations?

See General Note #4 below

12 DENOTES WATER SERVICES TO BE UPSIZED TO 38mm PER CITY STANDARD.

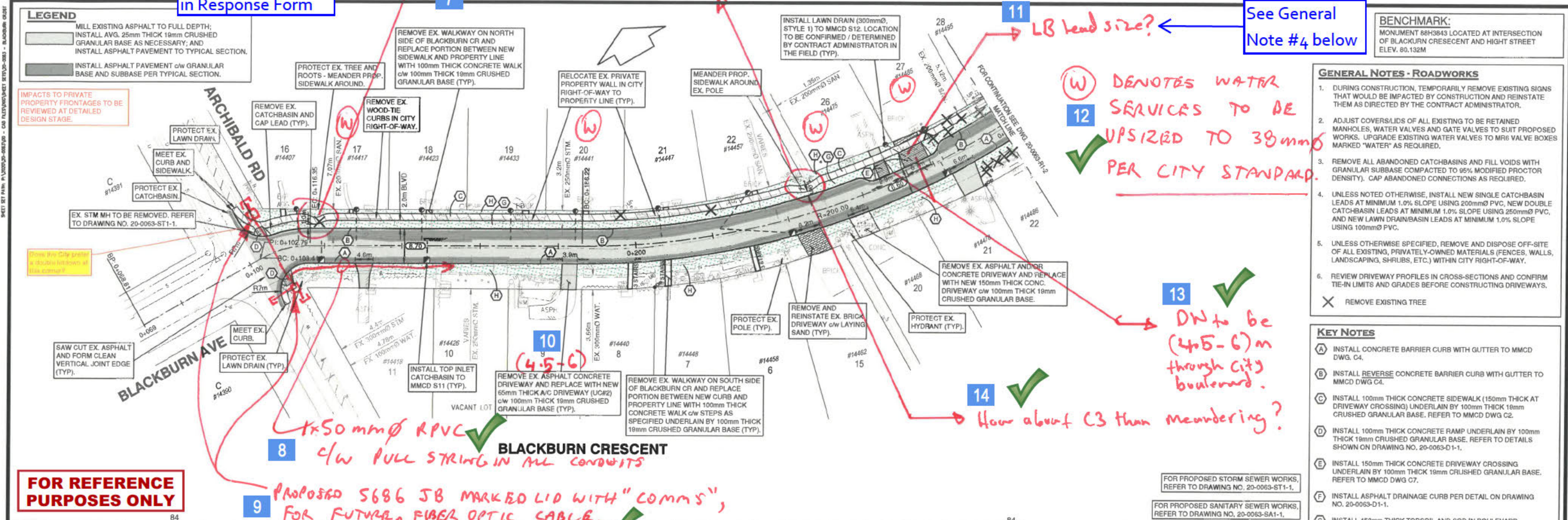
13 DW to be (4.5-6)m through city boulevard.

14 How about C3 than meandering?

8 1x50mmØ RPVC c/w PULL STRING IN ALL CONDUITS

9 Proposed 5686 JB MARKED LID WITH "COMMS", FOR FUTURE FIBER OPTIC CABLE.

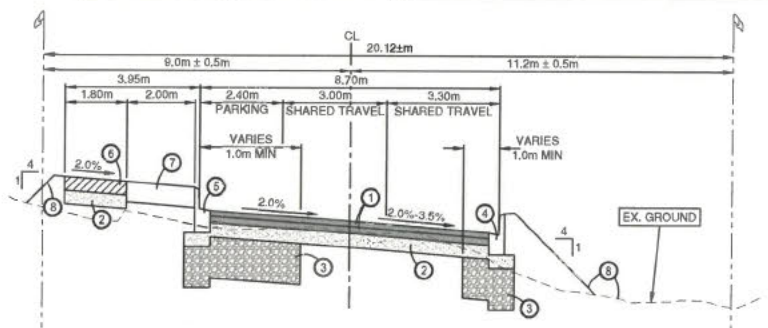
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BENCHMARK:
MONUMENT 66H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 80.132M

- GENERAL NOTES - ROADWORKS**
- DURING CONSTRUCTION, TEMPORARILY REMOVE EXISTING SIGNS THAT WOULD BE IMPACTED BY CONSTRUCTION AND REINSTATE THEM AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
 - ADJUST COVERS/LIDS OF ALL EXISTING TO BE RETAINED MANHOLES, WATER VALVES AND GATE VALVES TO SUIT PROPOSED WORKS. UP-GRADE EXISTING WATER VALVES TO MIRE VALVE BOXES MARKED "WATER" AS REQUIRED.
 - REMOVE ALL ABANDONED CATCHBASINS AND FILL VOIDS WITH GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. CAP ABANDONED CONNECTIONS AS REQUIRED.
 - UNLESS NOTED OTHERWISE, INSTALL NEW SINGLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 200mmØ PVC, NEW DOUBLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 250mmØ PVC, AND NEW LAWN DRAIN/BASIN LEADS AT MINIMUM 1.0% SLOPE USING 100mmØ PVC.
 - UNLESS OTHERWISE SPECIFIED, REMOVE AND DISPOSE OFF-SITE OF ALL EXISTING, PRIVATELY-OWNED MATERIALS (FENCES, WALLS, LANDSCAPING, SHRUBS, ETC.) WITHIN CITY RIGHT-OF-WAY.
 - REVIEW DRIVEWAY PROFILES IN CROSS-SECTIONS AND CONFIRM TIE-IN LIMITS AND GRADES BEFORE CONSTRUCTING DRIVEWAYS.
- ✕ REMOVE EXISTING TREE

- KEY NOTES**
- (A) INSTALL CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG. C4.
 - (B) INSTALL REVERSE CONCRETE BARRIER CURB WITH GUTTER TO MMCD DWG C4.
 - (C) INSTALL 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING) UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG C2.
 - (D) INSTALL 100mm THICK CONCRETE RAMP UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO DETAILS SHOWN ON DRAWING NO. 20-0063-D1-1.
 - (E) INSTALL 150mm THICK CONCRETE DRIVEWAY CROSSING UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG C7.
 - (F) INSTALL ASPHALT DRAINAGE CURB PER DETAIL ON DRAWING NO. 20-0063-D1-1.
 - (G) INSTALL 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
 - (H) INSTALL 150mm THICK TOPSOIL AND HYDROSEED.



TYPICAL SECTION
BLACKBURN CRESCENT (0+124 TO 0+300)
SCALE 1:100H 1:25V

- 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
 - 40mm THICK UPPER COURSE #2;
 - 60mm THICK LOWER COURSE #2.
- 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- 300mm THICK 75mm SELECT GRANULAR SUBBASE COMPACTED TO MIN. 95% MODIFIED PROCTOR DENSITY AT MINIMUM.
- CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD DRAWING NO. C4.
- REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD DRAWING NO. C4.
- 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING). REFER TO MMCD DRAWING NO. C2.
- 150mm THICK TOPSOIL AND SOD FOR BOULEVARD TREE PLANTING.
- 150mm THICK TOPSOIL AND HYDROSEED TO PROPERTY LINE.

STATION	EX. GRND ELEV. ON PROP. C/L	PROP. SOUTH GUTTER ELEV.	PROP. ROAD C/L ELEV.	PROP. NORTH GUTTER ELEV.
0+060	76.66			
0+100	76.98			
0+102.822		80.025	80.051	80.112
0+110		80.115	80.061	80.133
0+157.798		80.025	80.182	80.269
0+160		80.075	80.232	80.319
0+162.227		80.125	80.292	80.369
0+170		80.175	80.332	80.419
0+172.305		80.225	80.382	80.469
0+180		80.275	80.432	80.519
0+182.377		80.325	80.482	80.569
0+190		80.375	80.532	80.619
0+192.449		80.425	80.582	80.669
0+200		80.475	80.632	80.719
0+202.521		80.525	80.682	80.769
0+210		80.575	80.732	80.819
0+212.593		80.625	80.782	80.869
0+220		80.675	80.832	80.919
0+222.665		80.725	80.882	80.969
0+230		80.775	80.932	81.019
0+232.737		80.825	80.982	81.069
0+240		80.875	81.032	81.119
0+242.809		80.925	81.082	81.169
0+250		80.975	81.132	81.219
0+252.881		81.025	81.182	81.269
0+260		81.075	81.232	81.319
0+262.953		81.125	81.282	81.369
0+270		81.175	81.332	81.419
0+272.025		81.225	81.382	81.469
0+280		81.275	81.432	81.519
0+282.097		81.325	81.482	81.569
0+290		81.375	81.532	81.619
0+292.169		81.425	81.582	81.669
0+300		81.475	81.632	81.719

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CLIENT: **CITY OF WHITE ROCK**
877 NEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION:
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
ROADWORKS

SURVEYED BY: TA
DRAWN BY: SV
DESIGNED BY: RANM
CHECKED BY: RA

SCALES:
H 1:500 20m
V 1:50 2m

DATE: 2020-01-28
DRAWING NO.: 20-0063-R1-1
SHEET 02 OF 10
REV. 1

DRAFT

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Binnie recommends use of MUTCDC (the MUTCD for Canada) as opposed to MUTCD (which is for the U.S.).

Figure A2-1 of MUTCDC shows min 0.3m to max 2.0m between edge of STOP sign and edge of road (curb barrier) in urban districts.

MUTCD Fig 2A-3
6 ft min from road edge

23 min. 4.5m wide letdown
24 max. 6.0m wide letdown

25 - All driveways min 4.5m - 6.0m even pavers & asphalt

BENCHMARK:
MONUMENT 88H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

- GENERAL NOTES - PAVEMENT MARKING**
- ALL PAVEMENT MARKING LINES AND SYMBOLS TO BE THERMOPLASTIC.
 - PAVEMENT MARKING AND SIGNS TO BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).

- KEY NOTES**
- INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
 - INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
 - INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.
FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-SA1-1.
FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

LEGEND

EXISTING SIGN - SHOWN IN GRAY ONLY

EXAMPLE RB-51B

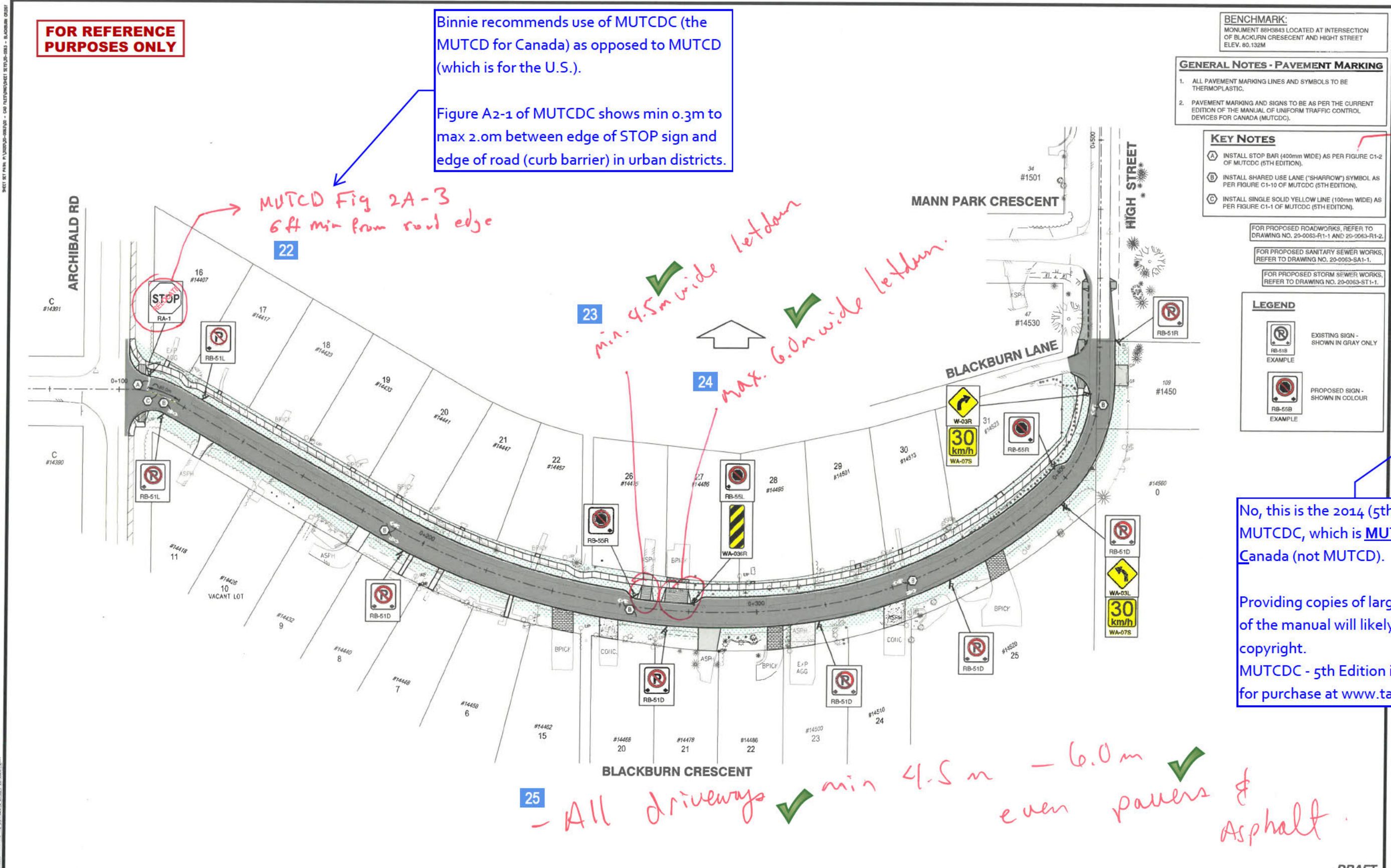
PROPOSED SIGN - SHOWN IN COLOUR

EXAMPLE RB-55B

26
is this 2009th edition? I cannot find these signs there. Can part 2 section of the manual be provided so we can locate signs and review?

No, this is the 2014 (5th) edition of MUTCDC, which is **MUTCD** for Canada (not MUTCD).

Providing copies of large portions of the manual will likely violate the copyright.
MUTCDC - 5th Edition is available for purchase at www.tac-atc.ca.



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CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
PAVEMENT MARKING AND SIGNAGE

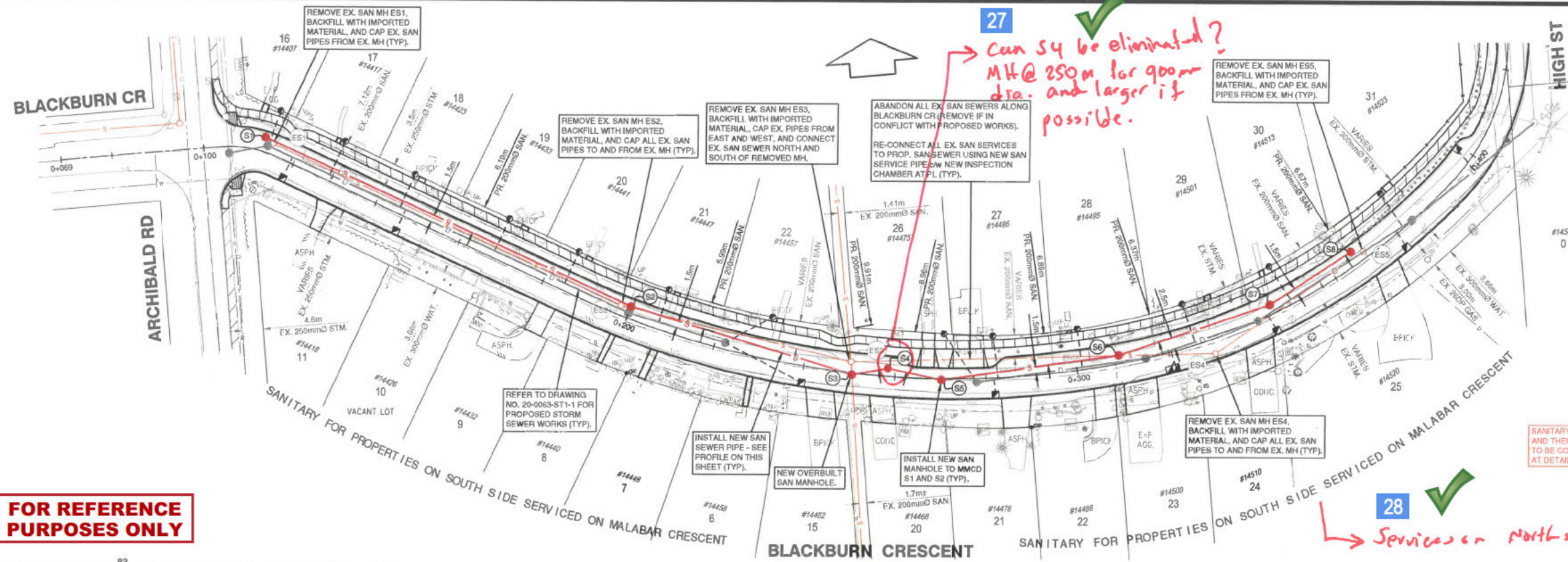
SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

SCALES
0 1:500 20m

DATE 2020-05-08
DRAWING No. 20-0063-PM1-1
SHEET 04 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

DRAFT

SHEET NO. 20-063-SA1-1 OF 10 (SANITARY SEWER) - SANITARY SEWER - ARCHIBALD RD TO HIGH ST - BLACKBURN CR
 PLOTTED: 2020-01-28 11:13:13 PM (GMT-8) - C:\PROJECTS\20-063-SA1-1 - SANITARY SEWER - ARCHIBALD RD TO HIGH ST - BLACKBURN CR



- BENCHMARK:**
MONUMENT 884343 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 80.132M
- GENERAL NOTES - SANITARY SEWER**
- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mm Ø SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
 - CONTRACTOR SHALL FIND ANY EXISTING SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM OR NEW INSPECTION CHAMBER AT PL TO MMCD S9.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS C/W VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - SANITARY SEWER UTILITY TRENCHES SHALL BE AS PER MMCD 04.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.
- SANITARY SERVICE CONNECTIONS AND THEIR RESPECTIVE LOCATIONS TO BE COMPLETED AND CONFIRMED AT DETAILED DESIGN STAGE.**
- FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-063-R1-1 AND 20-063-R1-2.**
- FOR PROPOSED PAVEMENT MARKING AND SIGNAGE WORKS, REFER TO DRAWING NO. 20-063-PM1-1.**

FOR REFERENCE PURPOSES ONLY

83	82	81	80	79	78	77	76	75	74										
PROP. INVERT ELEVATION		76.327 SE	PROP. 87.50m-200mmØ PVC SDR35 SAN. @ 0.70%		77.714 NW	PROP. 50.17m-200mmØ PVC SDR35 SAN. @ 0.70%		77.363 W 77.533 S 77.610 E 77.760 N	77.443 W 77.583 E	PROP. 12.00m-200mmØ PVC SDR35 SAN. @ -1.00%	77.953 W 77.953 E	PROP. 39.00m-200mmØ PVC SDR35 SAN. @ -1.00%	77.953 W 77.953 E	PROP. 34.56m-200mmØ PVC SDR35 SAN. @ -1.00%	78.209 W 78.209 E	PROP. 21.00m-200mmØ PVC SDR35 SAN. @ -1.00%	78.509 SW		
EX. INVERT ELEVATION		78.650 SE	EX. 200Ø SAN.		78.070 NW 78.070 E	EX. 200Ø SAN.		77.560 W 77.530 S 77.610 E 77.760 N	77.443 W 77.583 E	EX. 200Ø SAN.	77.953 W 77.953 E	EX. 200Ø SAN.	78.209 W 78.209 E	EX. 200Ø SAN.	78.509 SW				
STATION ALONG BASELINE		0+100	0+112.05 0+111.15	0+120	0+140	0+160	0+180	0+200.00 0+197.81 0+200.00	0+220	0+240	0+260.00 0+250.04 0+250.72 0+250.26 0+250	0+270.15	0+280	0+300	0+320	0+340 0+344.52	0+360	0+380	0+400

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Langley, BC V1M 4A6
TEL 604 574 3336
BINNIE.com

CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

CLIENT

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

DATE 2020-01-28
DRAWING No. 20-063-SA1-1

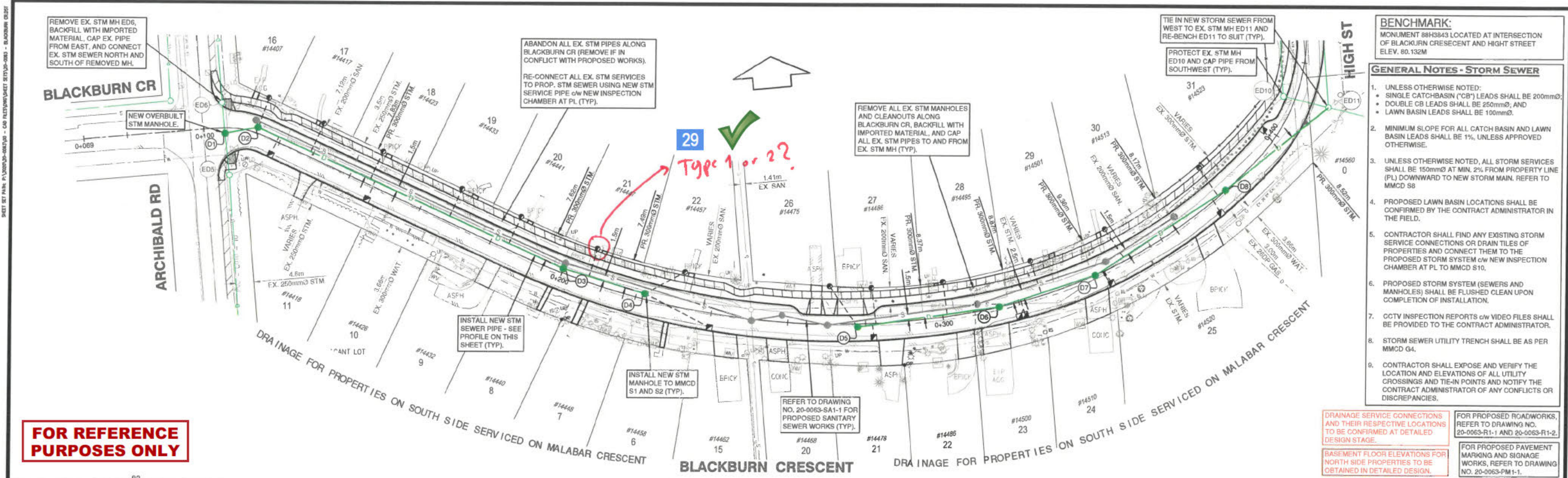
SHEET 05 OF 10
REV. 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

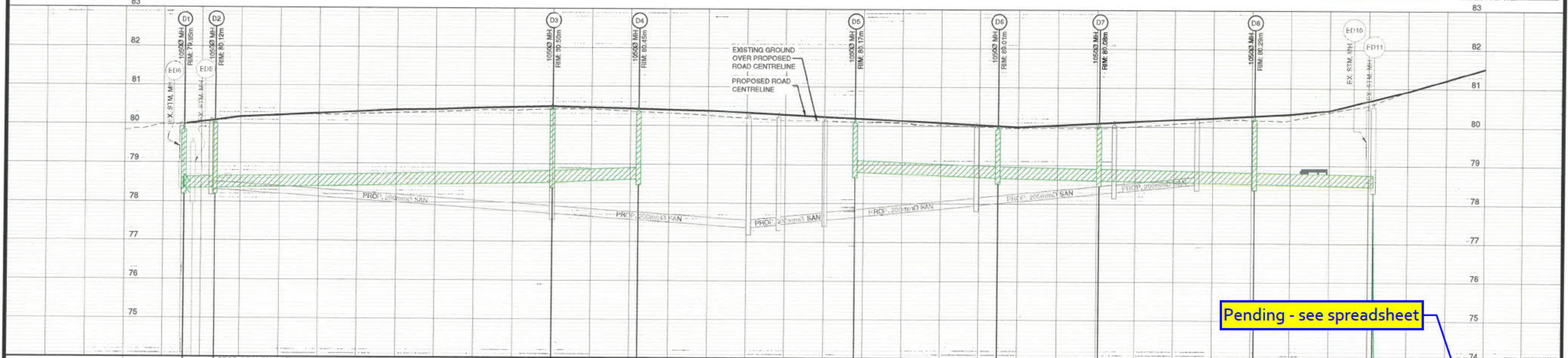
SCALE
H 1:500
V 1:50

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

DRAFT



FOR REFERENCE PURPOSES ONLY



Pending - see spreadsheet

30
Can grade be increased?

No.	DATE	REVISION	BY
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

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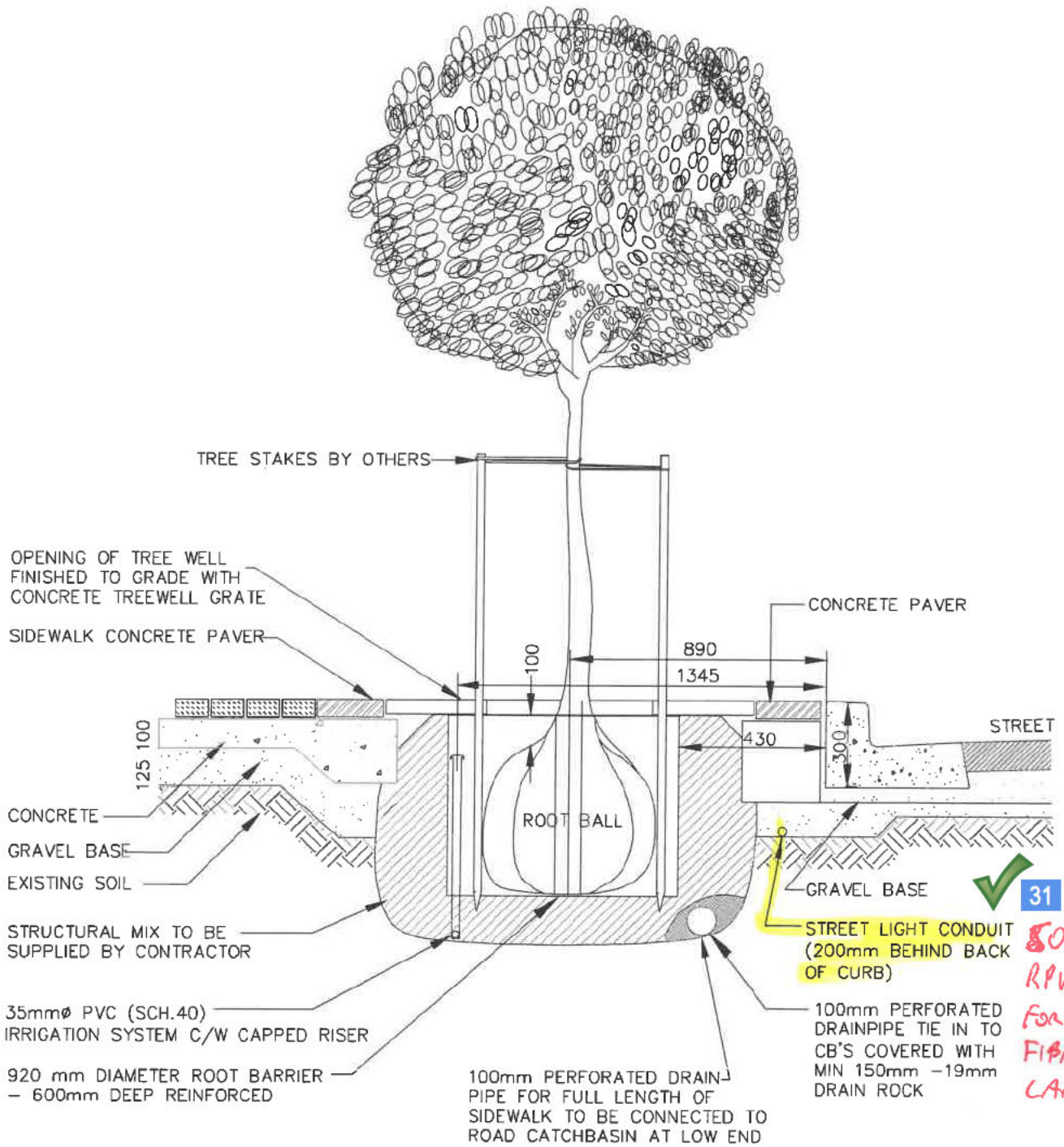
DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
STORM SEWER

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY NM
CHECKED BY RA

DATE 2020-01-28
DRAWING No. **20-0063-ST1-1**
SHEET 06 OF 10
REV. 1
DESTROY ALL PRINTS BEARING PREVIOUS No.

DRAFT

**FOR REFERENCE
PURPOSES ONLY**



31 ✓
80 mm ϕ RPVC FOR CITY FIBER OPTIC CABLE.

DRAWING TITLE: TREEWELL AT BRICK PAVER	Rev #	Revision Date	Approved by	DRAWING NUMBER: SSDD-R13
	All Dimensions In Millimetres Unless Otherwise Noted			SCALE: N.T.S.

City Comments of Design Review
Response Form



R.F. Binnie & Associates Ltd.
Client: City of White Rock
Project: Blackburn Crescent Road and Utilities Improvements

Submission Stage: Preliminary Design
Client Reference No.: N/A
Binnie Project No.: 20-0063
Client Comments Date: 2020-05-22
Binnie Response Update: 2020-08-18

Code Legend:

	A	Comment Accepted and Action Taken
	B	No Action Taken or Required
	C	Comment to be Discussed/Clarified with City
	D	Comment To Be Resolved in Next Design Phase

Comment No.	Reference Sheet No.	Client / City Comment	Designer Response to / Description of the Client / City Comment	Code	Required Action by Binnie, if any	Action by	Status	EoR Additional Input, if any
1	20-0063-D1-1	Can General Notes sheet be separate from construction Details sheet?	Yes, Binnie will address.	A	Make another sheet and move details to it.	NM	Complete	
2	20-0063-D1-1	[Add] Roadwork Notes [to General Notes sheet].	Binnie will address.	A	Copy general notes from roadworks sheets R1-1 and R1-2 to Notes sheets.	NM	Complete	
3	20-0063-D1-1	[Add] Paving Notes [to General Notes sheet].	Asphalt paving works are per MMCD specifications, and we typically do not provide general notes specifically for paving.	B	None	n/a	Complete	
4	20-0063-D1-1	[Add] Pavement Marking Notes [to General Notes sheet].	Binnie will address.	A	Copy general notes from pavement marking sheets PM1-1 to Notes sheets.	NM	Complete	
5	20-0063-D1-1	[Change max. width shown on residential driveway detail to] 6.0m.	Binnie will make the suggested changes. For City's information, maximum urban residential driveway in MMCD Design Guideline (20154) is 7.5m.	A	Change max. width shown in driveway detail to 6.0m.	NM	Complete	
6	20-0063-D1-1	[Is the 2% slope for driveway crossing shown on Sidewalk 150mm Drop detail not supposed to be] 8%?	Sidewalk drop is to allow uniform 2% for the two driveway crossings.	B	None	n/a	Complete	
7	20-0063-R1-1	Why the [proposed] SW is not straight at several locations?	There is two locations where proposed sidewalk is meandered. One is near Station 0+120 to mitigate impact on tree roots, and the other is near Station 0+245 to avoid existing pole. The latter can change to a locally widened sidewalk per MMCD C3 (also see response to Comment #14).	B	None	n/a	Complete	
8	20-0063-R1-1	[Add the following with callout note to the scope of work] 1x50mm RPVC c/w Pull String in all Conduits [on south side of Blackburn Crescent behind proposed curb.	Binnie will address.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
9	20-0063-R1-1	[Add the following two with callout notes to the scope of work behind both sidewalk ramps at intersection with Archibald Road] Proposed 5686 JB Marked Lid with "COMMS" for Future City Fibre Optic Cable.	Binnie will address.	A	Create new sheet for fibre optic JB works and complete the design as per City comments.	NM	Complete	
10	20-0063-R1-1	[Add the following to the callout note for property #14432 asphalt driveway]: (4.5 - 6.0) [m]	Driveway widths are annotated and shown on plan.	B	None	n/a	Complete	
11	20-0063-R1-1	[Specify a typical] LB lead size.	Lawn basin lead sizes are specified in General Note #4 on this sheet, as well as in the storm sewer general notes.	B	None	n/a	Complete	
12	20-0063-R1-1 20-0063-R1-2	For properties #14417, #14441, #14475, #14485, #14513 and #14523 on the north side, water services to be upsized to 38mm dia. per City standard.	Binnie will add separate sheet for water service upgrades to 38mm diameter.	A	Create new sheet for water service upgrades and complete water service upgrade design as per City comments. Add notes and details as required.	NM	Complete	
13	20-0063-R1-1	[For properties #14475 and #14485] DW to be (4.5 - 6)m through City boulevard.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change all driveways on south and north side to be within the minimum and maximum limits specified by the City.	NM	Complete	
14	20-0063-R1-1	[For the proposed meandering sidewalk around existing pole] how about [MMCD C3] than meandering?	Ok, Binnie will change the proposed curved meandered sidewalk to a locally widened sidewalk per MMCD C2 / C3.	A	Change the proposed curved meandered sidewalk to a locally widened sidewalk per MMCD C2 / C3.	NM	Complete	
15	20-0063-R1-1	[On typical sections, change subbase "select" type to] crush[ed] gravel.	Binnie will change subbase type to "crushed".	A	Change "SELECT" to "CRUSHDED" in item 3 of typical sections in both roadwork sheets.	NM	Complete	
16	20-0063-R1-2	Affected boulevard [on the south side] to be restored to 150mm topsoil and sod.	Are all privately-owned structures within the entire City boulevard (RoW) to be removed and restored with topsoil and sod? There are several existing improvements by private properties within City RoW that will be impacted is the entire public RoW (boulevard) is to be cleared. Does the City wish to proceed with replacing the entire boulevard with top soil and sod, or limit the restoration only to proposed embankment daylight line?	C	Pending further directions or clarifications by the City	MH, City	Pending	Typically, only disturbed areas are restored. Sod can be less expensive in the long term as it requires less maintenance than hydroseed.
17	20-0063-R1-2	[Should the proposed brick paver driveway within City RoW that matches existing driveway be] restored with concrete?	Does the City prefer to restore all driveways within City RoW with asphalt or concrete ONLY, regardless of other types of existing driveways such as pavers?	C	Pending further directions or clarifications by the City	MH, City	Pending	

City Comments of Design Review
Response Form



R.F. Binnie & Associates Ltd.
Client: City of White Rock
Project: Blackburn Crescent Road and Utilities Improvements

Submission Stage: Preliminary Design
Client Reference No.: N/A
Binnie Project No.: 20-0063
Client Comments Date: 2020-05-22
Binnie Response Update: 2020-08-18

Code Legend:

	A	Comment Accepted and Action Taken
	B	No Action Taken or Required
	C	Comment to be Discussed/Clarified with City
	D	Comment To Be Resolved in Next Design Phase

Comment No.	Reference Sheet No.	Client / City Comment	Designer Response to / Description of the Client / City Comment	Code	Required Action by Binnie, if any	Action by	Status	EoR Additional Input, if any
18	20-0063-R1-2	[Add the following with callout note to the scope of work] 1x50mm RPVC c/w Pull String in all Conduits [on east side of High Street behind proposed curb.	Binnie will add separate sheet for fibre optic conduit works.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
19	20-0063-R1-2	[Add the following with callout note to the scope of work behind property #1450's proposed asphalt driveway] Proposed 5686 JB Marked Lid with "COMMS" for Future City Fibre Optic Cable	Binnie will add separate sheet for fibre optic conduit works.	A	Create new sheet for fibre optic conduit works and complete the design as per City comments.	NM	Complete	
20	20-0063-R1-2	[Show] dimensions and details of asphalt ramps on High Street.	Binnie will add this detail as part of efforts for Detailed Design stage.	A	Add asphalt ramp details with dimensions.	NM	Complete	
21	20-0063-R1-2	Why [is there] two types of asphalt curbs?	There is only one type of asphalt curb. The Style 1 interim curb is a concrete curb.	B	None	n/a	Complete	Style 1 concrete curb has an adjacent sidewalk behind which the curb helps to delineate the pedestrian from the vehicle.
22	20-0063-PM1-1	MUTCD Fig 2A-3 [requires STOP sign to have a horizontal distance of] 6 ft min. from road edge.	Binnie recommends use of MUTCDC (the MUTCD for Canada) as opposed to MUTCD (which is for the U.S.). Figure A2-1 of MUTCDC shows min 0.3m to max 2.0m between edge of STOP sign and edge of road (curb barrier) in urban districts	B	None	n/a	Complete	
23	20-0063-PM1-1	[For property 14475, change to a driveway of] min. 4.5m wide letdown.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change driveway width to 4.5m for property #14475.	NM	Complete	
24	20-0063-PM1-1	[For property 14486, change to a driveway of] max. 6.0m wide letdown.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change driveway width to 6.0m for property #14486.	NM	Complete	
25	20-0063-PM1-1	All driveways [to be] min 4.5m - [max] 6.0m even pavers and asphalt.	Binnie will revise all driveways to be 4.5m to 6.0m.	A	Change all driveways on south and north side to be within the minimum and maximum limits specified by the City.	NM	Complete	
26	20-0063-PM1-1	Is this [reference that is mentioned in the Key Notes] 2009th edition? I cannot find these signs there. Can part and section of the manual be provided so we can locate signs and review?	No, this is the 2014 (5th) edition of MUTCDC, which is MUTCD for Canada (not MUTCD). Providing copies of large portions of the manual will likely violate the copyright. MUTCDC - 5th Edition is available for purchase at www.tac-atc.ca	B	None	n/a	Complete	
27	20-0063-SA1-1	Can [the sanitary manhole] S4 be eliminated? MH @ 250m for 900mm dia. and larger if possible.	Yes, Binnie has changed the sanitary sewer alignment and design to include open cut segment and bursting segments, and S4 is eliminated now.	A	Revise sanitary sewer alignment and eliminate S4.	NM	Complete	
28	20-0063-SA1-1	Show [sanitary] services on northside?	Binnie will address.	C	Add proposed sanitary services.	NM	Complete	
29	20-0063-ST1-1	[Are the lawn basins] Type 1 or 2?	Lawn basin types are Type 1 and specified on roadworks drawings. Binnie will add additional note to specify.	A	Add additional construction note for proposed lawn basins.	NM	Complete	
30	20-0063-ST1-1	Can [pipe] grades be increased?	Yes, but not without extending scope and not without additional costs. Based on tie-in elevations at both ends, current pipe grades are maximum possible to retain minimum cover above pipe and tie in to existing storm sewer within the project scope. Pipe grades may be possible to increase if the downstream tie-ins at both ends are extended further beyond Blackburn Crescent, which will have cost implications as well as potentially causing issues for servicing existing basements. Does the City still prefer increasing the pipe grades?	C	Pending further directions or clarifications by the City	MH, City	Pending	
31	SSDD-R13	50mm Dia. RPVC for City's future fibre optic cables (south side), and 100mm Dia. RPVC or City's future streetlighting cables (north side)	Details for proposed conduits.	A	Add conduit trench detail.	NM	Complete	

SHEET SET PATH: P:\2020\20-0063\100 - CAP PRELIM\0001 - CAP PRELIM\0001 - BLACKBURN.CRIST

CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

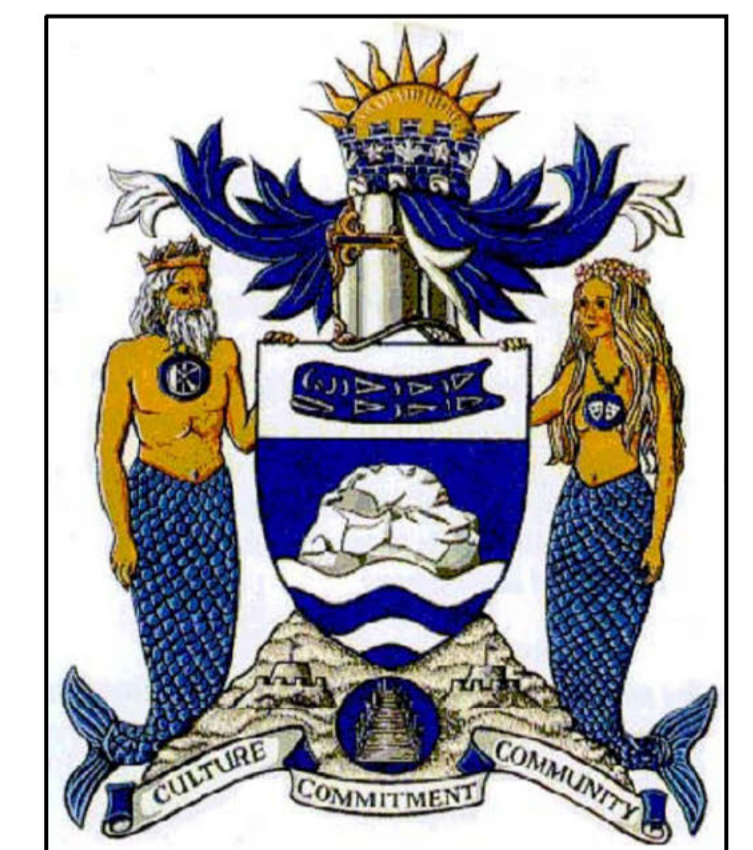
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAVIT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-N	01
DETAILS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	03
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	04
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	05
WATER SERVICE UPGRADES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-WS1-1	06
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	07
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	08
CONDUIT WORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-EL1-1	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	10
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	11
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	12
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	13



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SHEET PART 1 - 2020-07-20 2:26:46 PM FILE: P:\2020\00-0063\00 - CAD FILES\DWG\FINAL\20-0063-01.dwg - DATE PLOTTED: 2020-08-20 2:26:46 PM

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS, WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
- THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, FORTIS BC, METRO VANCOUVER OR ANY OTHER APPLICABLE THIRD-PARTY UTILITY AGENCY PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
- ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
- WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
- OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
- ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
- SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
- THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

ROADWORKS NOTES:

- CHANGES OF GRADE AND DIRECTION SHALL BE FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
- EARTHWORKS, INCLUDING STRIPPING ALL LOOSE OR OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOTS, COMPACTING, AND SLOPE GRADING SHALL BE COMPLETED AS PER CONTRACT DOCUMENTS.
- EMBANKMENTS SHALL BE PLACED, SHAPED, COMPACTED, AND PROTECTED TO STANDARDS AND SPECIFICATIONS AS REQUIRED IN THE CONTRACT DOCUMENTS.

- WHERE INFILLING OF EXISTING DITCHES ETC. IS REQUIRED, AND WHERE SERVICES ARE CONSTRUCTED IN FILL SECTION, FILL MATERIAL SHALL BE GRANULAR MATERIAL, SUPPLIED, PLACED AND COMPACTED AS PER MMCD SPECIFICATION.
- ALL SUB-BASE ROAD AND GRANULAR BASE MATERIALS SHALL CONFORM TO MMCD SPECIFICATION.
- THE ROAD SUB-BASE AND BASE SHALL EXTEND A MINIMUM OF 0.3 METERS BEYOND ROAD EDGE OR CURB AND GUTTER.
- THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL CONFORM WITH THE SPECIFICATIONS DETAILED UNDER THE MMCD AND CITY OF WHITE ROCK SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS, IF APPLICABLE.
- BENKELMAN BEAM TESTING OF THE ROAD BASE IS REQUIRED PRIOR TO PAVING.
- UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR, ASPHALTIC CONCRETE FOR ROADWORK SHALL BE PLACED AND COMPACTED TO THE SPECIFIED DENSITIES IN 2 SEPARATE LIFTS.
- TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE. PRIOR TO PLACING ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES AND OTHER ABUTTING STRUCTURES SHALL BE TACK COATED WITH ASPHALT EMULSION.
- ALL NEW PAVEMENT SHALL BE GRADED SUCH THAT NO PONDING FORMS. THE MINIMUM CROSS SLOPE ON ANY NEW OR OVERLAIN ROAD SURFACE SHALL BE 2%.
- ALL VALVES BOXES, MANHOLES, ETC., THAT ARE WITHIN THE PAVED SURFACE OF THE ROADWAY SHALL BE ADJUSTED TO FINISHED COURSE ELEVATION PRIOR TO FINISH COURSE PAVING.

WATER NOTES:

- TIE-INS OF NEW WATERMANS AND SERVICES TO LIVE MAINS, AFTER TESTING AND CHLORINATION, SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER'S INSPECTOR AND THE OBSERVATION OF THE OWNER'S REPRESENTATIVE. ALL PIPES AND FITTINGS USED FOR FINAL CONNECTIONS MUST BE SWABBED AND CLEANED WITH 100ppm SOLUTION.
- PRIOR TO INSTALLATION OF NEW SERVICES, THE CONTRACTOR SHALL EXPOSE EXISTING SERVICE CONNECTIONS TO CONFIRM THE SIZE AND LOCATION OF SERVICES.
- ALL NEW WATERMANS SHALL BE CAPPED 1.5m FROM TIE-IN POINTS TO EXISTING WATERMANS TO HAVE TEST POINTS SET UP, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS. TIE-IN POINTS SHALL BE CONFIRMED DURING PRE-EXCAVATION. THE PROPOSED WATERMAIN SHALL BE SET AT LINE AND GRADE TO MEET THE EXISTING WATERMAIN. TIE-IN POINTS SHALL INCLUDE TEST POINTS AS PER DETAIL ON THIS SHEET.
- ALL RESIDENTIAL SERVICE CONNECTION PIPES SHALL BE MINIMUM OF 38mm DIAMETER POLYETHYLENE PRESSURE CLASS 200 UNLESS OTHERWISE SPECIFIED.
- ALL FITTINGS SHALL BE D.I. TYTON JOINTS UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE STAINLESS STEEL.
- ALL FITTINGS AND VALVES SHALL BE RESTRAINED. ALL TEMPORARY FITTINGS FOR PRESSURE TESTING SHALL BE RESTRAINED.
- TEST POINTS SHALL BE SIZED TO ALLOW FLUSHING VELOCITY OF 0.8 m/s.
- WHEN THE WATERMAIN IS CLOSER THAN 0.5m VERTICALLY OR 3.0m HORIZONTALLY TO A SEWER (STORM OR SANITARY) BUT IS ABOVE THE SEWER, THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. IF THE ABOVE IS NOT ATTAINABLE, THE JOINTS SHALL BE WRAPPED WITH HEAT SHRINK PLASTIC OR PACKED WITH COMPOUND AND WRAPPED WITH DENSOTAPE.
- WHEN THE WATERMAIN IS BENEATH THE SEWER, THERE SHALL BE A MINIMUM OF 300mm SEPARATION. THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. WATERMAIN JOINTS WITHIN 3.0m OF THE CROSSING SHALL BE WRAPPED AS NOTED ABOVE.
- ACCEPTABLE STANDARDS ARE ANSI/AWWA C214 (FACTORY APPLIED), ANSI/AWWA C209 (FIELD APPLIED), AND ANSI/AWWA C217-90 (PETROLATUM TAPE). ALL MATERIALS USED SHALL HAVE ZERO HEALTH HAZARD.
- THE CONTRACTOR SHALL ENSURE THE WATERMAIN AND SERVICE CONNECTIONS ARE TESTED AND CHLORINATED PRIOR TO ANY TIE-IN WORKS (MAINS AND CONNECTIONS). CONTRACTOR SHALL HIRE QUALIFIED THIRD PARTY TO PERFORM TESTING. PRESSURE TESTING AND MICROBIOLOGY SAMPLING RESULTS SHALL BE SIGNED-OFF BY THE CONSULTANT WITNESSING THE TESTS AND SUBMITTED TO THE CITY PRIOR TO FINAL COMPLETION OF THE TIE-INS.
- ALL NEW SERVICE CONNECTIONS SHALL BE POLYETHYLENE COMPLETE WITH 14

- GAUGE COPPER COATED TRACER WIRE, SAMPLE TESTED. THE CONTRACTOR MUST CONTACT THE MANUFACTURER TO REVIEW INSTALLATION PROCEDURE.
- ALL VALVE BOXES SHALL BE NELSON STYLE. ANY VALVE BOX OUTSIDE OF A TRAVELLED ROAD SHALL HAVE A 500mmØ ASPHALT APRON PLACED AROUND IT.
 - ALL AIR RELEASE VENTS, STAND PIPES, ETC. SHALL BE FORD ENGINE BLUE.
 - ENSURE OPERATION OF HYDRANT ISOLATION VALVE SHALL NOT BE IMPEDED BY PROXIMITY OF HYDRANT.
 - RESTRAIN WATERMAIN AT JOINTS AS REQUIRED FOR SEISMIC ZONES.

SANITARY AND STORM SEWER NOTES:

- THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH/LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
- THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.
- UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
- ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
- ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
- ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
- ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD STANDARD DRAWING NO. S1, UNLESS SPECIFIED OTHERWISE.
- THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY AND DRAINAGE SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
- ALL SANITARY AND STORM SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
- ALL WYES SHALL BE MANUFACTURED.
- THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
- THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PACP" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.
- ALL CATCH BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S11. ALL CATCH BASINS LEADS SHALL BE 200mm DIAMETER PVC SDR 35 PIPE, UNLESS SPECIFIED OTHERWISE. ALL CATCH BASIN GRATES SHALL BE DOBNEY B26-B FOR FRAMES IN CENTRE OF THE ROAD AND DOBNEY B23 OR 24 FOR FRAMES NEXT TO CURBS. ALL CATCH BASIN SHALL BE EQUIPPED WITH APPROVED TRAPPING HOODS. BENDS SHALL NOT BE PERMITTED IN PLACE OF TRAPPING HOODS.
- ALL LAWN BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S12, EXCEPT CONCRETE BARREL TO BE 450mm DIAMETER. LAWN BASIN LEADS TO BE 100mm DIAMETER PVC SDR 35 OR 28 PIPE.
- ALL MANHOLE LIDS, CLEANOUT COVERS, CATCH BASIN GRATES, LAWN BASIN GRATES AND THE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.

PAVEMENT MARKING NOTES:

- ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).
- ALL PAVEMENT MARKING LINES AND SYMBOLS SHALL BE THERMOPLASTIC.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

- THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATERS BODIES.
- STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
- THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.
- THE COST OF ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO MAINTENANCE, REMOVAL, STREET CLEANING AND DUST CONTROL, SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE FOR THE WORK WITH NO ADDITIONAL COST TO THE CITY.

RESTORATION NOTES:

- THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
- THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
- ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
- THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
- ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

- THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP WITH UPDATES OF CHANGES IN RED COLOUR ON A DAILY BASIS IN ORDER TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
- THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
- THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS', AND
 - A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS'.

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BINNIE.com

CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET NOTES

SURVEYED BY	N/A
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	NOT TO SCALE

DATE	2020-01-28
DRAWING No.	20-0063-N
SHEET	01 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

PLOTTER: 2020-08-20 2:26:46 PM FILE: P:\2020\00-0063\00 - CAD FILES\DWG\FINAL\20-0063-01.dwg - DATE PLOTTED: 2020-08-20 2:26:46 PM

SHEET SET PLAN: P:\2020-06-03-0010 - CB - NEW/IMP/ROADWORKS - BLACKBURN CRES - 2020-01-28.DWG

- LEGEND**
- MILL EXISTING ASPHALT TO FULL DEPTH. INSTALL AVG. 100mm THICK 19mm CRUSHED GRANULAR BASE AS NECESSARY, AND INSTALL ASPHALT PAVEMENT TO TYPICAL SECTION.
 - INSTALL ASPHALT PAVEMENT c/w GRANULAR BASE AND SUBBASE PER TYPICAL SECTION.

IMPACTS TO PRIVATE PROPERTY FRONTAGES TO BE REVIEWED AT DETAILED DESIGN STAGE.

BENCHMARK:
MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

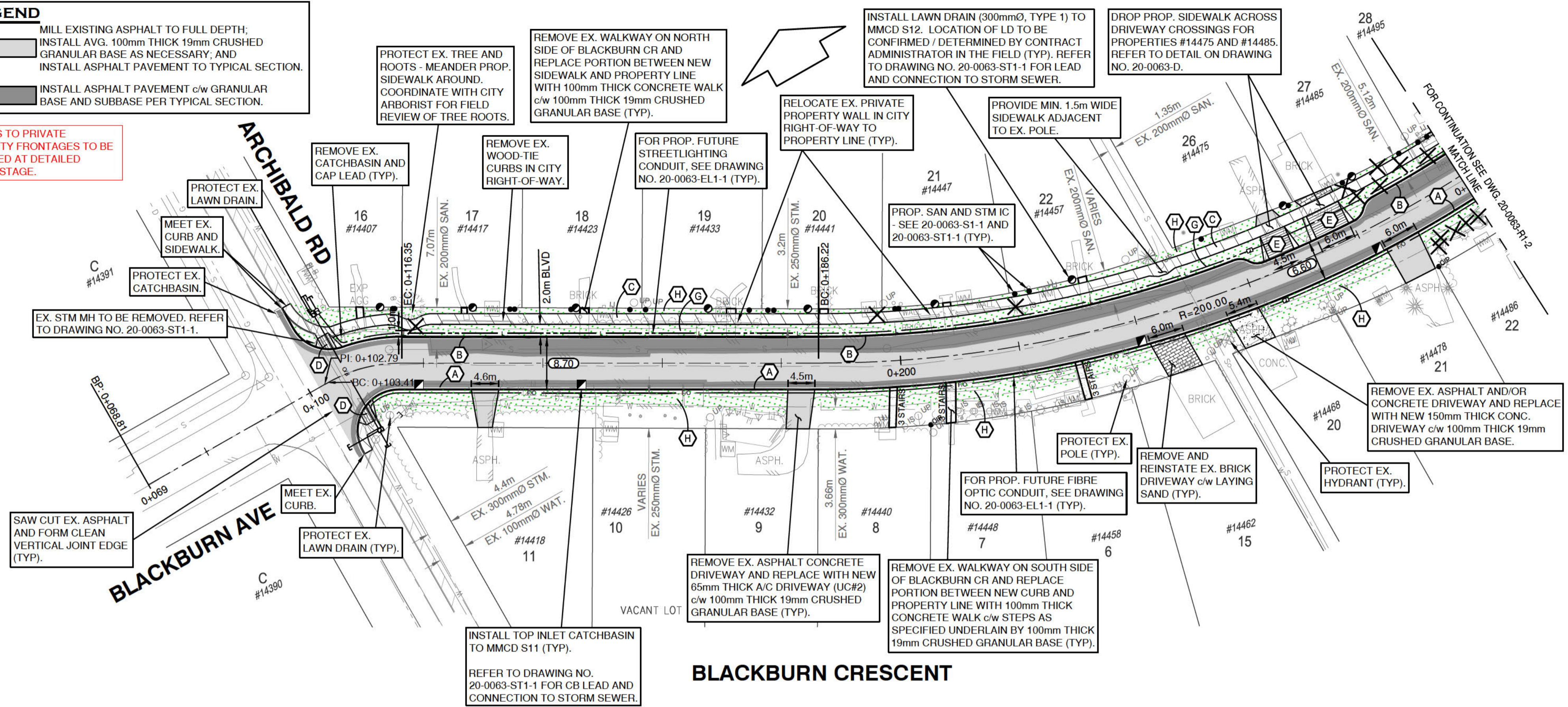
GENERAL NOTES - ROADWORKS

- DURING CONSTRUCTION, TEMPORARILY REMOVE EXISTING SIGNS THAT WOULD BE IMPACTED BY CONSTRUCTION AND REINSTATE THEM AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- ADJUST COVERS/LIDS OF EXISTING TO BE RETAINED MANHOLES, WATER VALVES AND GATE VALVES TO SUIT FINISHED SURFACES. UPGRADE EXISTING WATER VALVES TO MR6 VALVE BOXES MARKED "WATER" AS REQUIRED.
- REMOVE ALL ABANDONED CATCHBASINS AND FILL VOIDS WITH GRANULAR SUBBASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. CAP ABANDONED CONNECTIONS AS REQUIRED.
- UNLESS NOTED OTHERWISE, INSTALL NEW SINGLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 200mmØ PVC SDR35, NEW DOUBLE CATCHBASIN LEADS AT MINIMUM 1.0% SLOPE USING 250mmØ PVC SDR35, AND NEW LAWN DRAIN / LAWN BASIN LEADS AT MINIMUM 1.0% SLOPE USING 100mmØ PVC SDR28.
- UNLESS OTHERWISE SPECIFIED, CLEAR CITY RIGHT-OF-WAYS AND BOULEVARDS FROM ANY EXISTING, PRIVATELY OWNED MATERIALS (SUCH AS FENCES, WALLS, GATES, LANDSCAPING, SHRUBS, ETC.) BY RELOCATION AND/OR REMOVAL AND DISPOSAL OFFSITE.
- REVIEW DRIVEWAY PROFILES IN CROSS-SECTIONS AND CONFIRM TIE-IN LIMITS AND GRADES BEFORE CONSTRUCTING DRIVEWAYS.

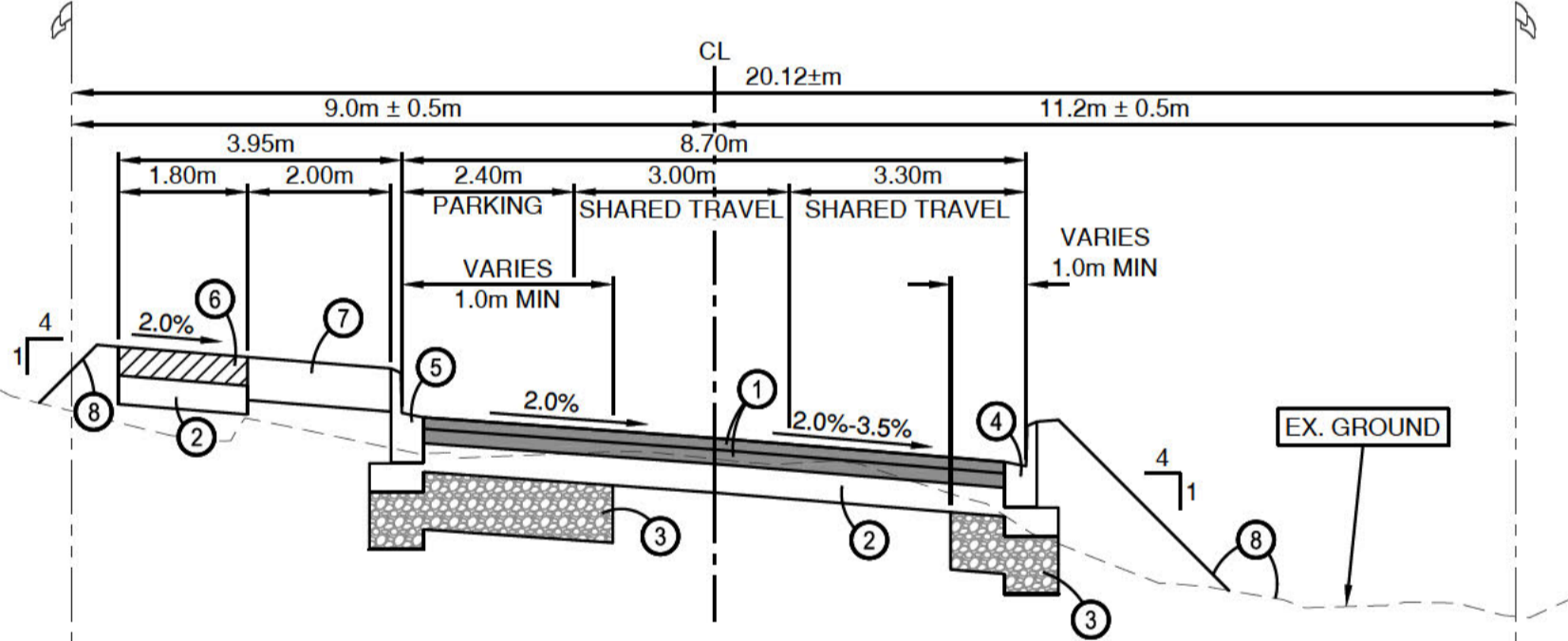
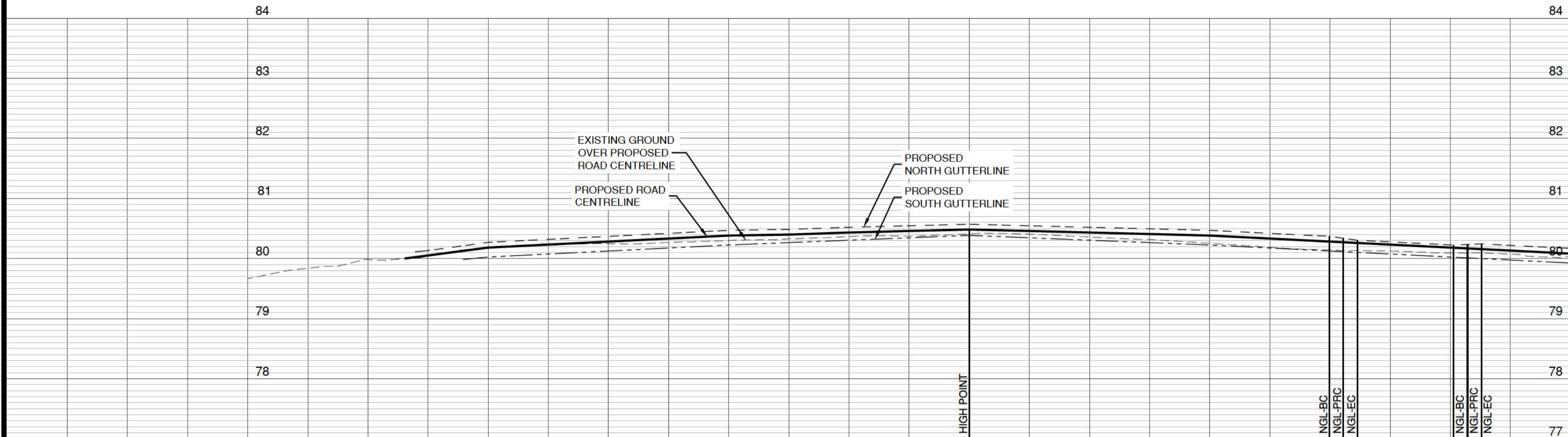
✕ SYMBOL DENOTES "REMOVE EXISTING TREE".

KEY NOTES

- (A) INSTALL CONCRETE BARRIER CURB WITH GUTTER TO MMCD DRAWING NO. C4.
- (B) INSTALL REVERSE CONCRETE BARRIER CURB WITH GUTTER TO MMCD DRAWING NO. C4.
- (C) INSTALL 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING) UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DRAWING NO. C2.
- (D) INSTALL 100mm THICK CONCRETE RAMP UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO DETAILS SHOWN ON DRAWING NO. 20-0063-D.
- (E) INSTALL 150mm THICK CONCRETE DRIVEWAY CROSSING UNDERLAIN BY 100mm THICK 19mm CRUSHED GRANULAR BASE. REFER TO MMCD DWG C7.
- (F) INSTALL ASPHALT DRAINAGE CURB PER DETAIL ON DRAWING NO. 20-0063-D.
- (G) INSTALL 150mm THICK TOPSOIL AND SOD IN BOULEVARD.
- (H) INSTALL 150mm THICK TOPSOIL AND HYDROSEED.



- FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL-1.
- FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS-1.
- FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.
- FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.
- FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM-1.



TYPICAL SECTION
BLACKBURN CRESCENT (0+124 TO 0+300)
SCALE 1:100H 1:25V

- (1) 100mm THICK ASPHALT CONCRETE PAVEMENT STRUCTURE:
 - 40mm THICK MMCD UPPER COURSE #2.
 - 50mm THICK MMCD LOWER COURSE #2.
- (2) 100mm THICK 19mm CRUSHED GRANULAR BASE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY.
- (3) 200mm THICK 75mm CRUSHED GRANULAR SUBBASE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY.
- (4) CONCRETE BARRIER CURB WITH GUTTER - NARROW BASE. REFER TO MMCD DRAWING NO. C4.
- (5) REVERSE CONCRETE BARRIER CURB WITH GUTTER. REFER TO MMCD DRAWING NO. C4.
- (6) 100mm THICK CONCRETE SIDEWALK (150mm THICK AT DRIVEWAY CROSSING). REFER TO MMCD DRAWING NO. C2.
- (7) 150mm THICK TOPSOIL AND SOD FOR BOULEVARD TREE PLANTING.
- (8) 150mm THICK TOPSOIL AND HYDROSEED TO PROPERTY LINE.

STATION	EX. GRND ELEV. ON PROP. C/L	PROP. SOUTH GUTTER ELEV.	PROP. ROAD C/L ELEV.	PROP. NORTH GUTTER ELEV.
0+080	79.66			
0+100	79.838			
0+107.822	79.98			
0+110	80.042			
0+115.798	80.18	79.983		
0+120	80.25	80.025		
0+130	80.243	80.075		
0+140	80.25	80.125		
0+150	80.267	80.175		
0+160	80.30	80.225		
0+170	80.327	80.265		
0+180	80.37	80.305		
0+190	80.372	80.345		
0+200	80.41	80.385		
0+210	80.405	80.345		
0+220	80.36	80.305		
0+230	80.316	80.265		
0+240	80.25	80.225		
0+250	80.187	80.175		
0+260.009	80.14	80.125		
0+262.227				
0+264.546				
0+270	80.127	80.075		
0+280	80.09	80.025		
0+280.626				
0+282.870				
0+285.165				
0+290	80.072	79.975		
0+300	80.03	79.925		

No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

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CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
ROADWORKS

DATE 2020-01-28

DRAWING No.
20-0063-R1-1

SHEET 03 OF 13

REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.

SCALE

H 1:500 20m

V 1:50 2m

DRAFT

BENCHMARK:
MONUMENT 88H3843 LOCATED AT INTERSECTION
OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

GENERAL NOTES - PAVEMENT MARKING

- ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).
- ALL PAVEMENT MARKING LINES AND SYMBOLS SHALL BE THERMOPLASTIC.

KEY NOTES

- (A)** INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
- (B)** INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
- (C)** INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.



FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.

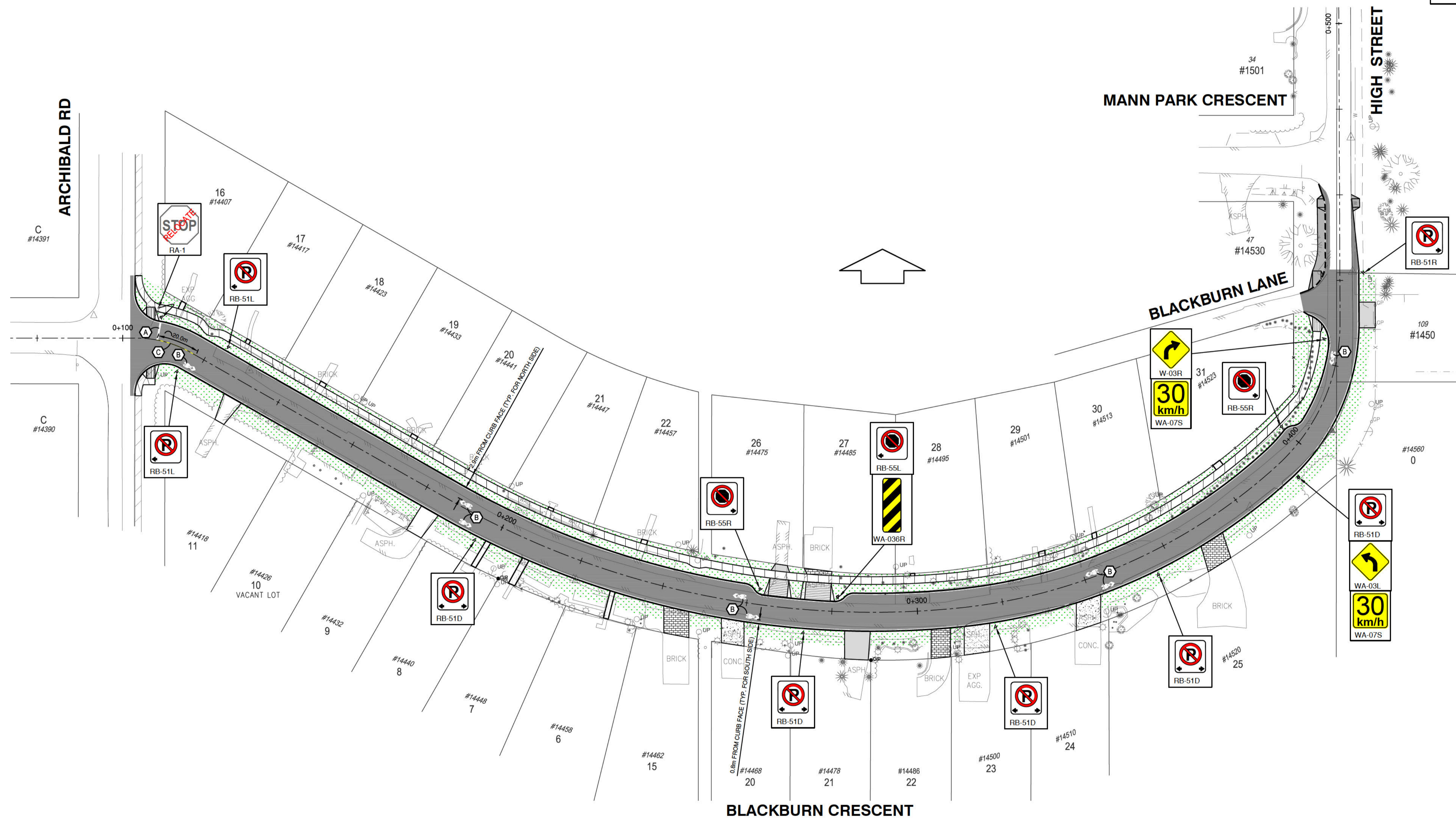
FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.

FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL1-1.

LEGEND

-  EXISTING SIGN - SHOWN IN GRAY ONLY
EXAMPLE
RB-51B
-  PROPOSED SIGN - SHOWN IN COLOUR
EXAMPLE
RB-55B



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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET PAVEMENT MARKING AND SIGNAGE

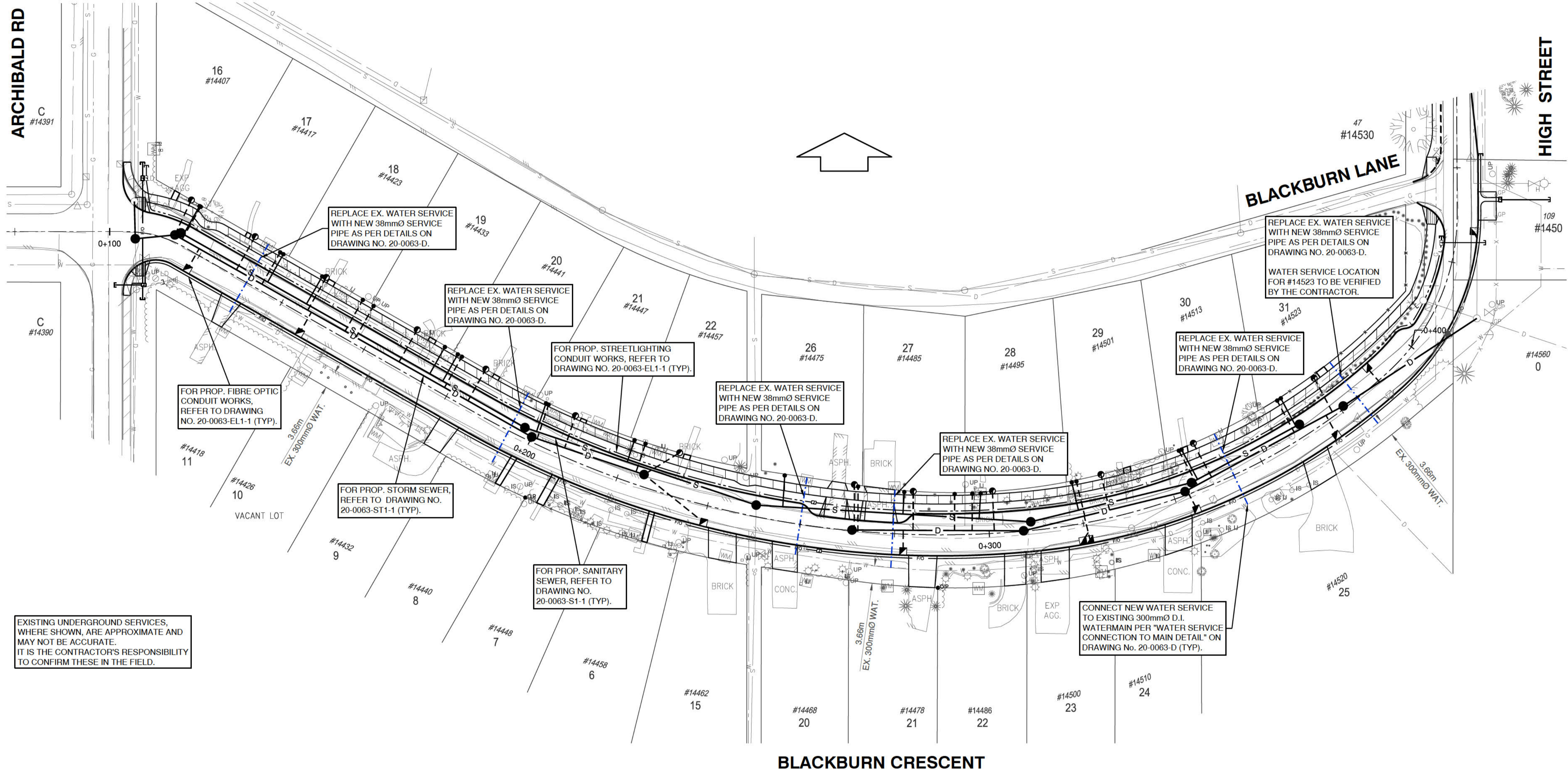
SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	0 1:500 20m

DATE	2020-07-20
DRAWING No.	20-0063-PM1-1
SHEET	05 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

BENCHMARK:
 MONUMENT 89H3843 LOCATED AT INTERSECTION
 OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

GENERAL NOTES - WATER SERVICE

1. PRIOR TO INSTALLATION OF NEW WATER SERVICES, THE CONTRACTOR SHALL EXPOSE EXISTING SERVICE CONNECTIONS TO CONFIRM THE SIZE AND LOCATION OF SERVICES.
2. ALL RESIDENTIAL SERVICE CONNECTION PIPES SHALL BE 38mm DIAMETER POLYETHYLENE PRESSURE CLASS 200 PIPE (AWWA C901) UNLESS OTHERWISE SPECIFIED.
3. WATER SERVICES TRANSFERS AND ABANDONMENT OF EXISTING WATERMAIN, IF APPLICABLE, SHALL BE BY CITY CREWS AFTER THE NEW WATERMAIN IS CHLORINATED AND PRESSURE-TESTED BY THE CONTRACTOR.
4. **WATER SERVICE CHLORINATED TEST RESULTS AND PRESSURE-TEST RESULTS SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR AND/OR ENGINEER OF RECORD PRIOR TO TIE-IN TO EXISTING WATERMAIN.**
5. TIE-INS OF NEW WATER SERVICES TO LIVE MAINS, AFTER TESTING AND CHLORINATION, SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER'S INSPECTOR AND THE OBSERVATION OF THE OWNER'S REPRESENTATIVE. ALL PIPES AND FITTINGS USED FOR FINAL CONNECTIONS MUST BE SWABBED AND CLEANED WITH 100ppm SOLUTION.
6. ACCEPTABLE STANDARDS ARE ANSIAWWA C214 (FACTORY APPLIED), ANSIAWWA C209 (FIELD APPLIED), AND ANSIAWWA C217-90 (PETROLATUM TAPE). ALL MATERIALS USED SHALL HAVE ZERO HEALTH HAZARD.
7. THE CONTRACTOR SHALL ENSURE THE WATER SERVICE CONNECTIONS ARE TESTED AND CHLORINATED PRIOR TO ANY TIE-IN WORKS (MAINS AND CONNECTIONS). CONTRACTOR SHALL HIRE QUALIFIED THIRD PARTY TO PERFORM TESTING. PRESSURE TESTING AND MICROBIOLOGY SAMPLING RESULTS SHALL BE SIGNED-OFF BY THE CONSULTANT WITNESSING THE TESTS AND SUBMITTED TO THE CITY PRIOR TO FINAL COMPLETION OF THE TIE-INS.
8. ALL NEW WATER SERVICE CONNECTIONS SHALL BE POLYETHYLENE COMPLETE WITH 14 GAUGE COPPER COATED TRACER WIRE, SAMPLE TESTED. THE CONTRACTOR MUST CONTACT THE MANUFACTURER TO REVIEW INSTALLATION PROCEDURE.
9. RESTRAIN WATERMAIN AT JOINTS AS REQUIRED FOR SEISMIC ZONES. SEE TABLE FOR RESTRAINING LENGTHS FOR PIPES.



EXISTING UNDERGROUND SERVICES, WHERE SHOWN, ARE APPROXIMATE AND MAY NOT BE ACCURATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE IN THE FIELD.

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL1-1.

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No.	DATE	REVISION	BY
1	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM

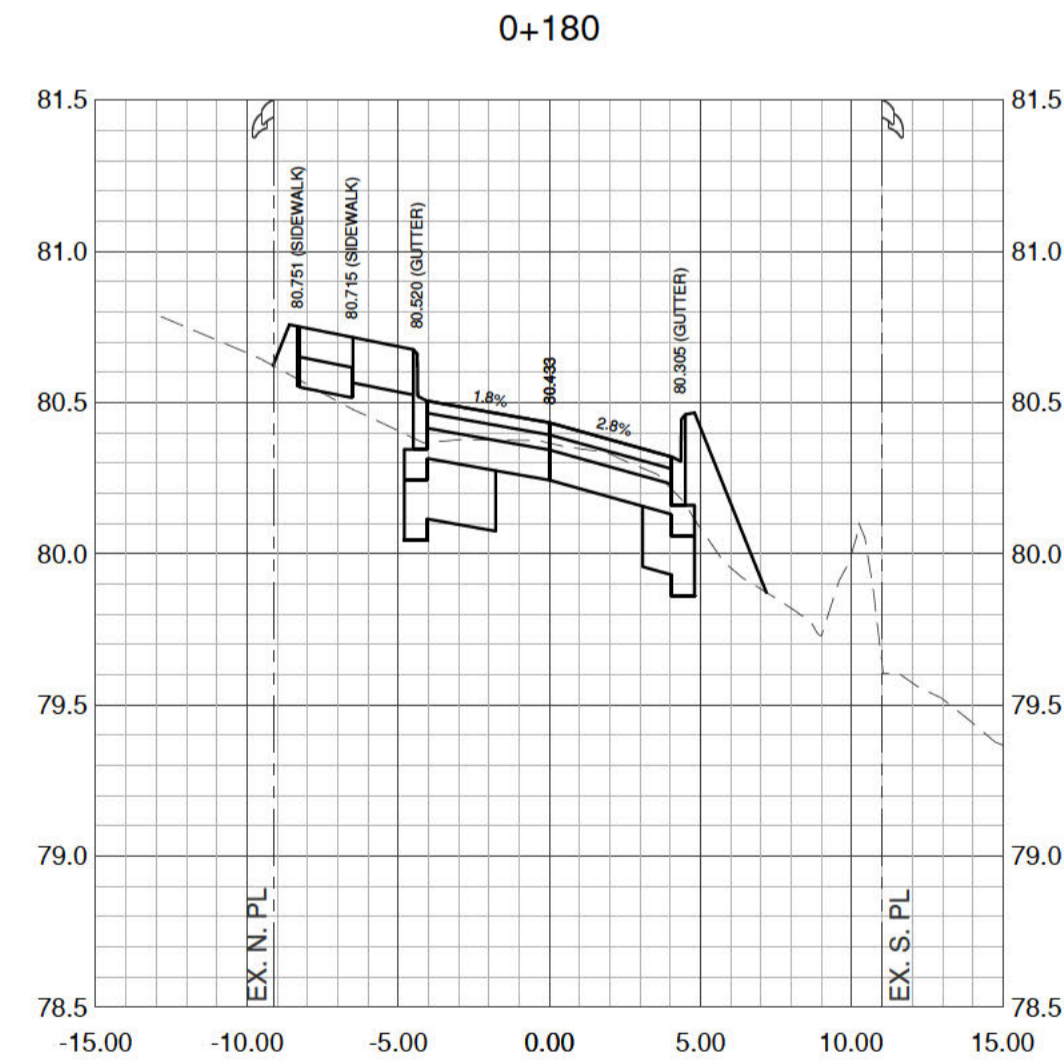
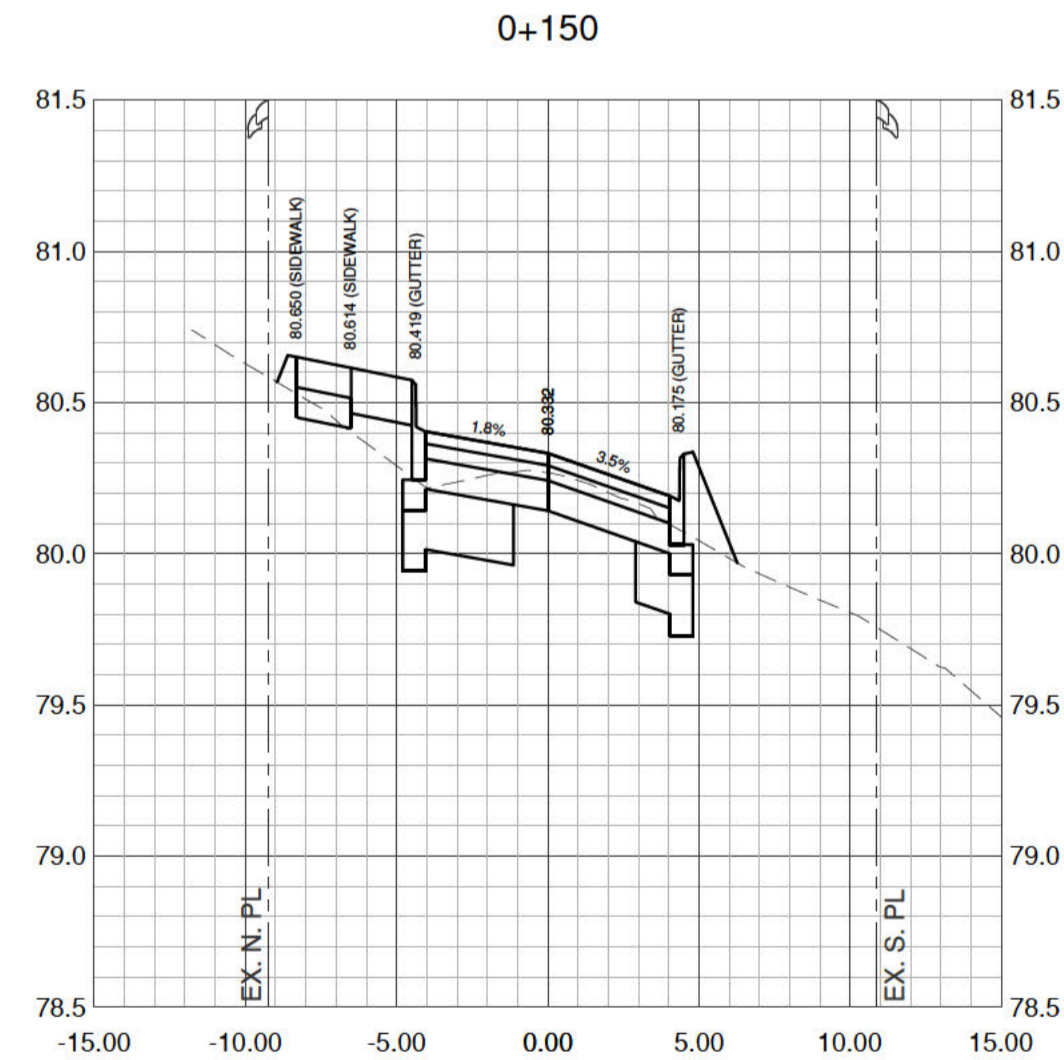
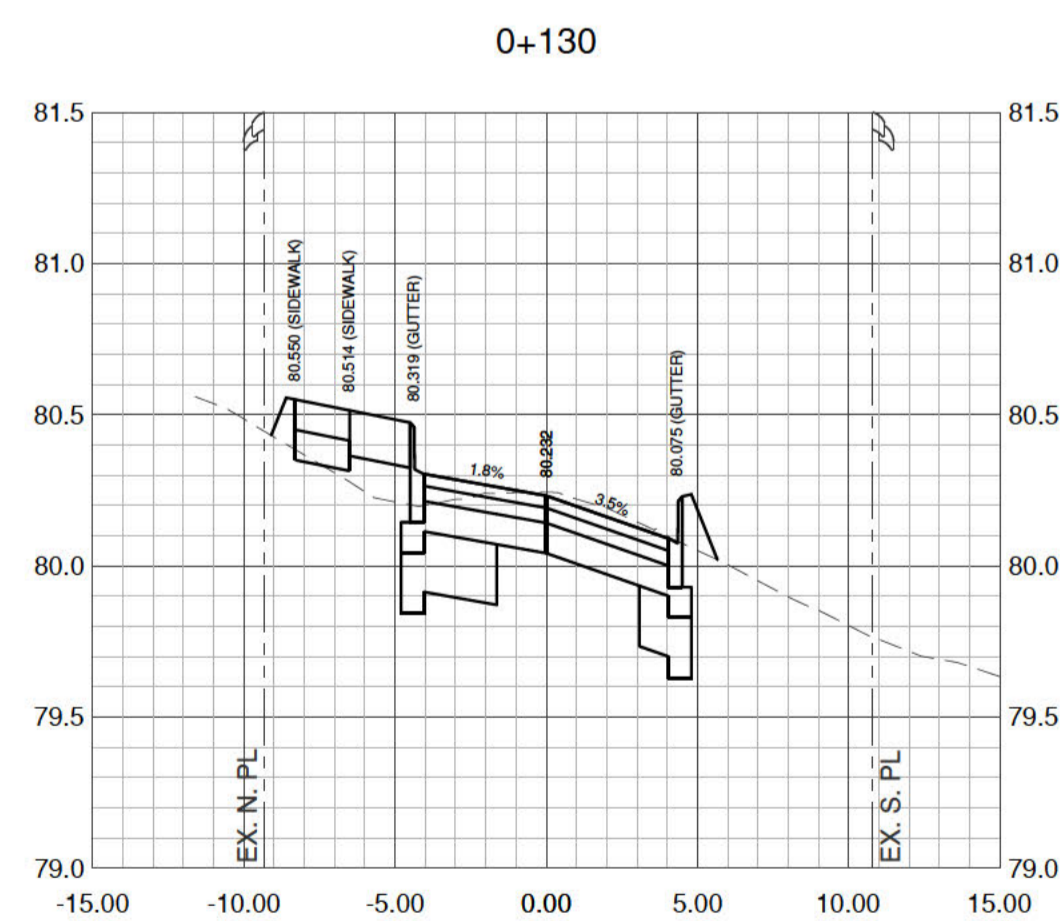
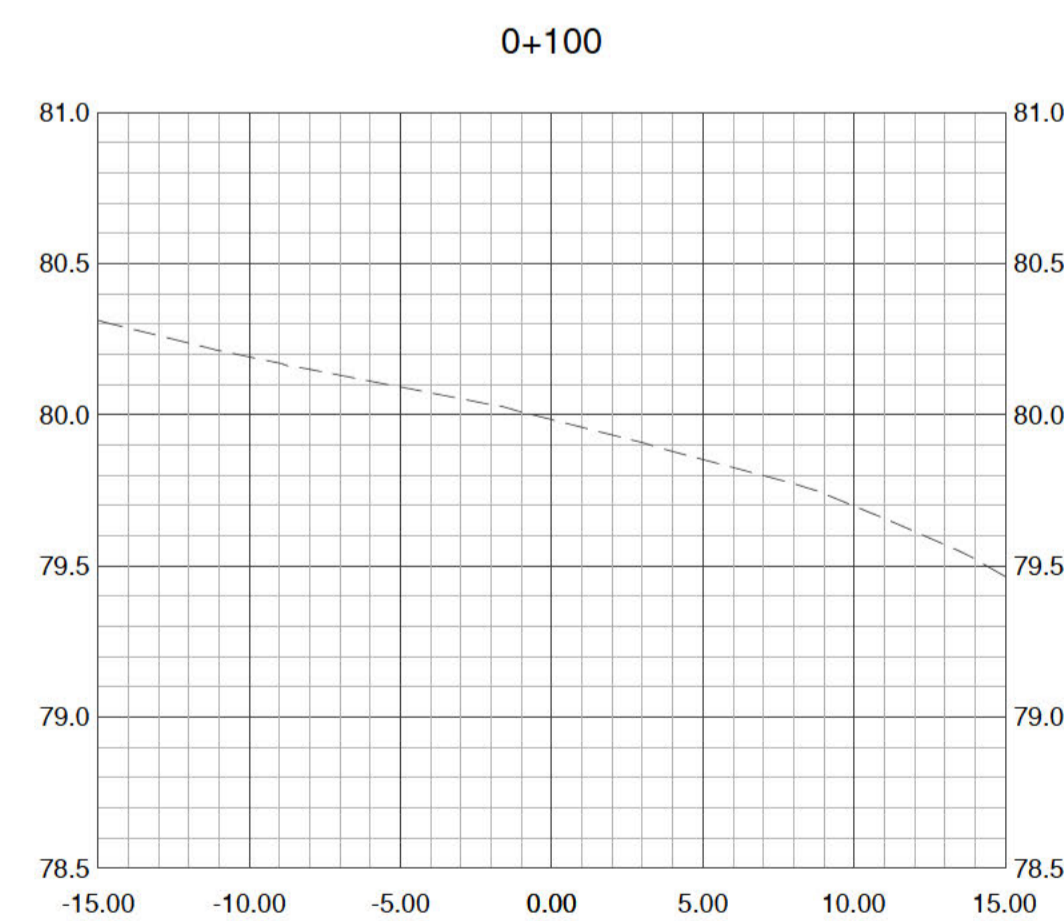
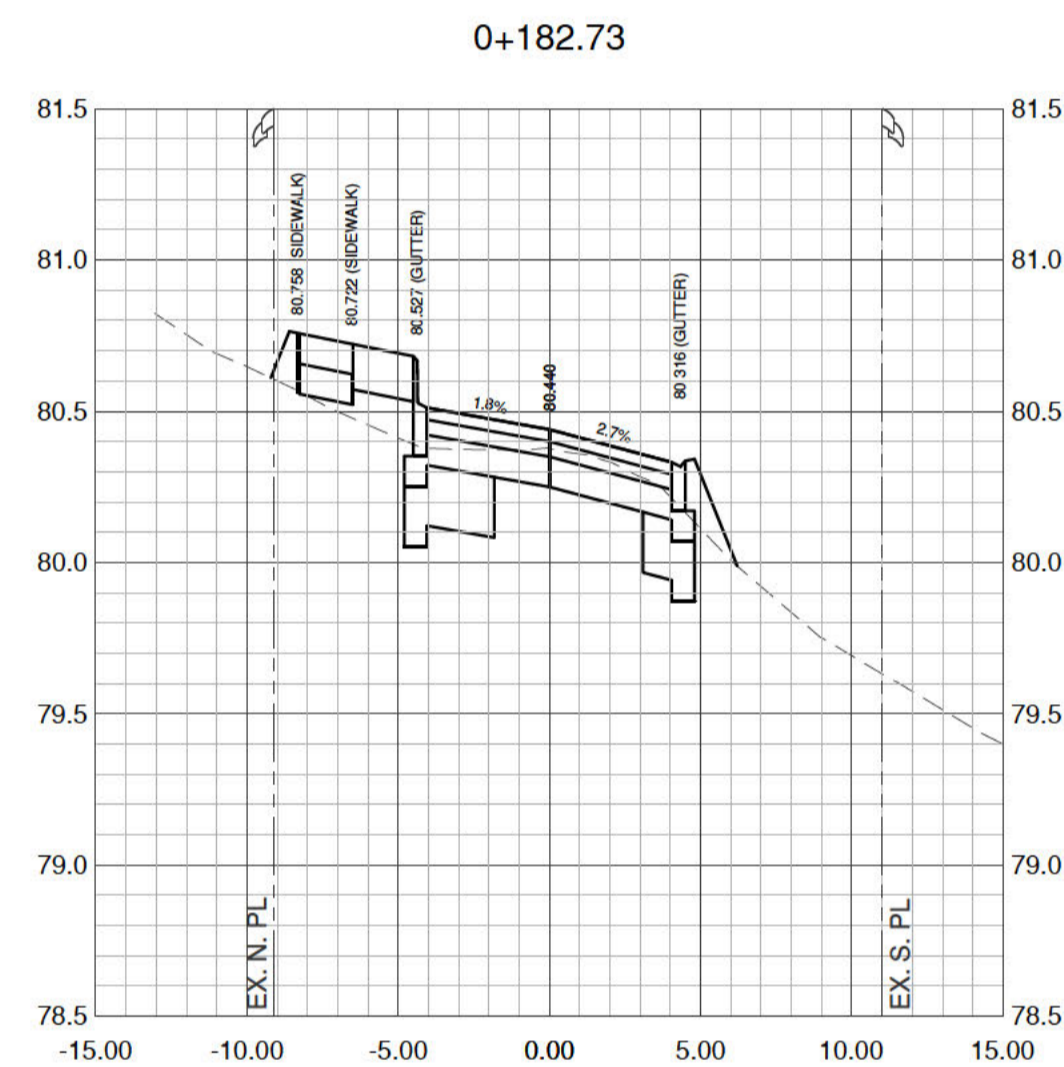
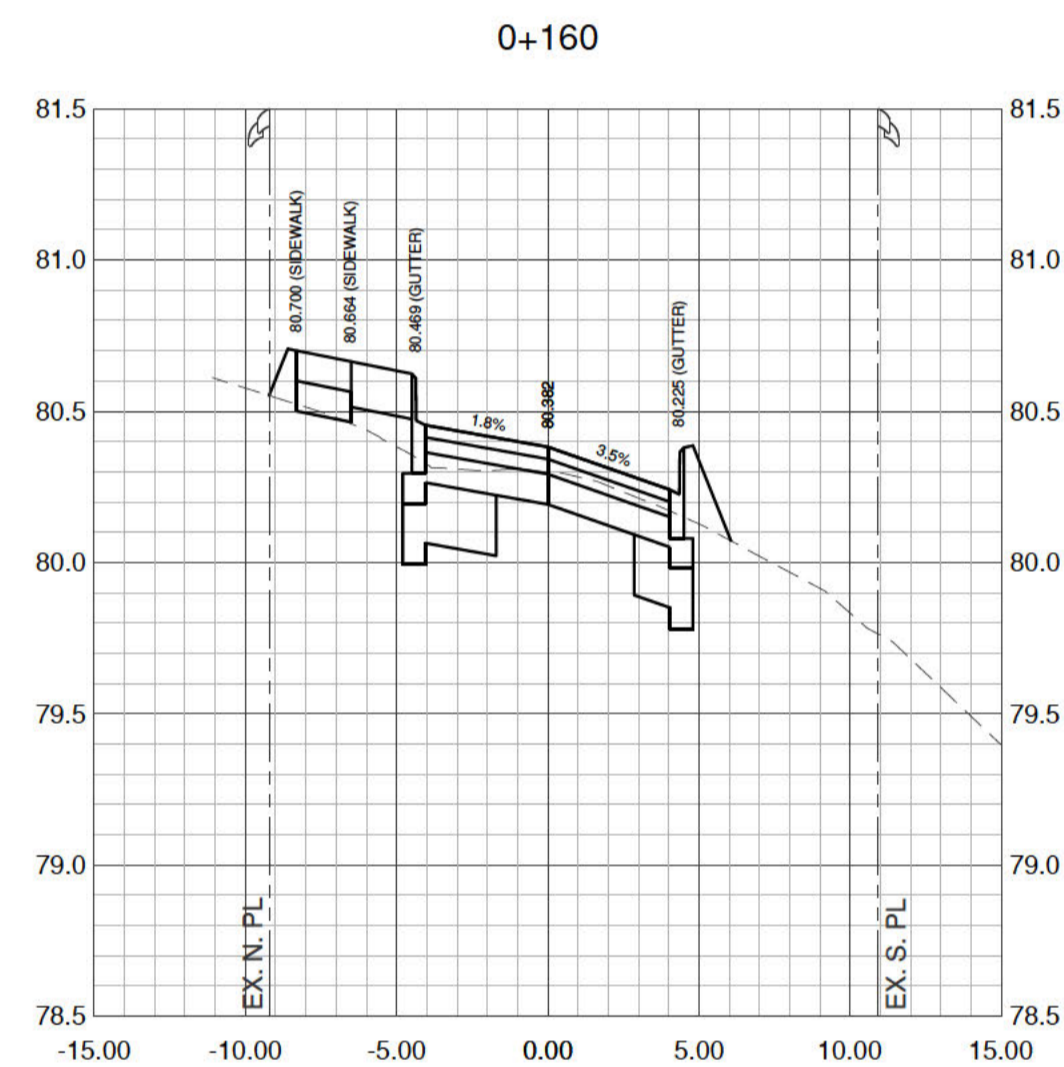
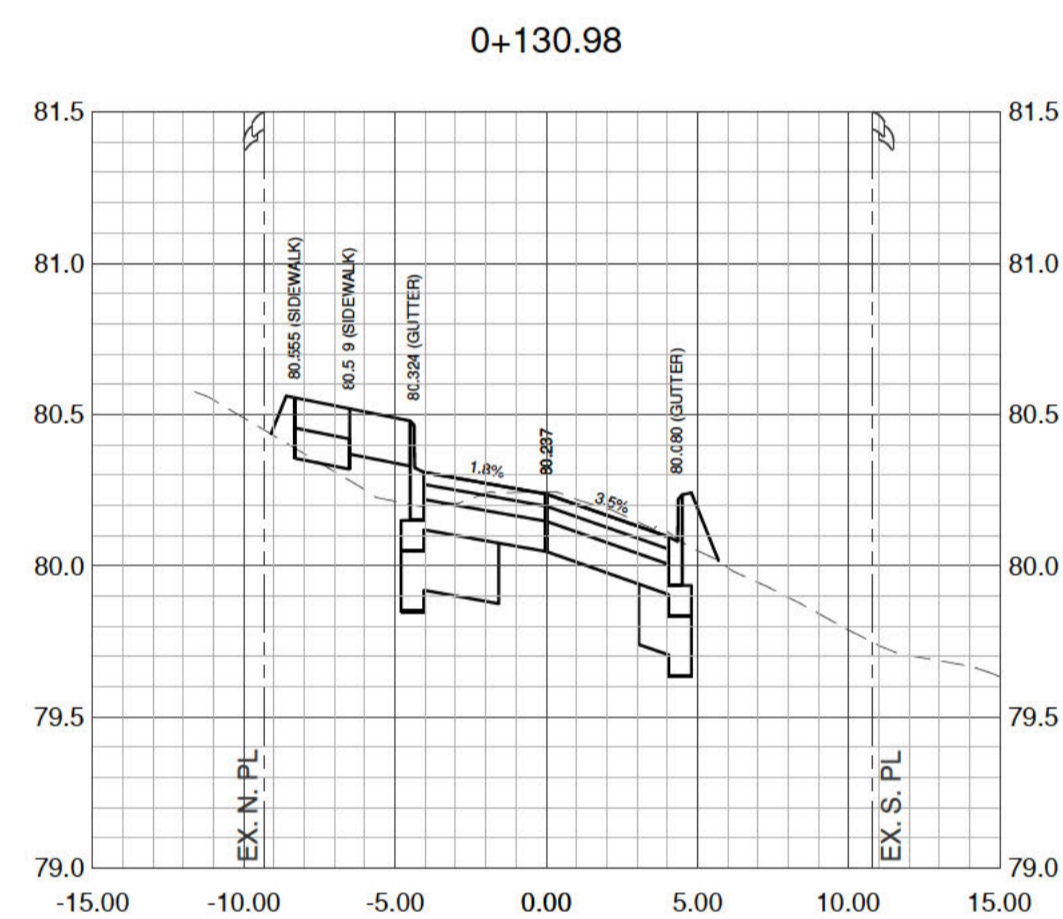
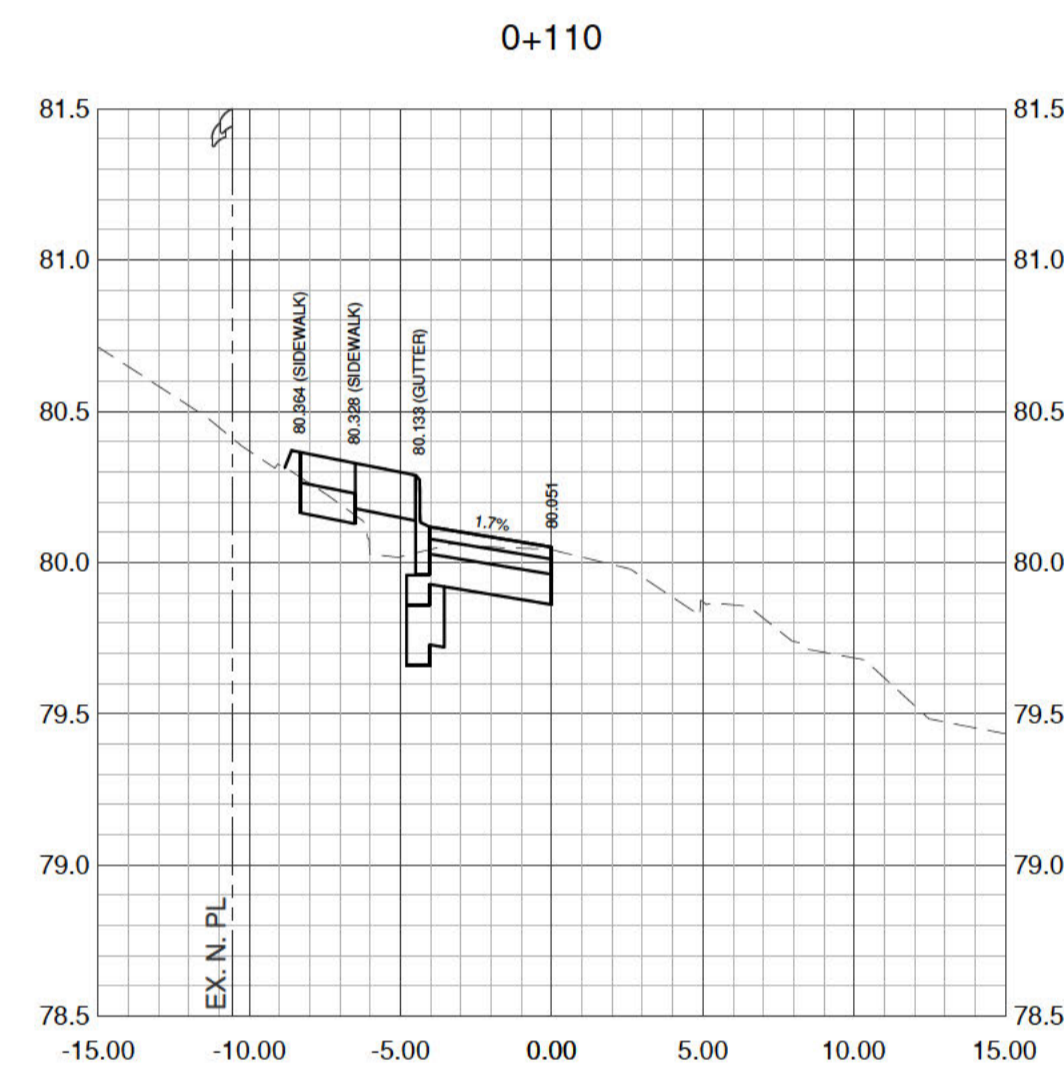
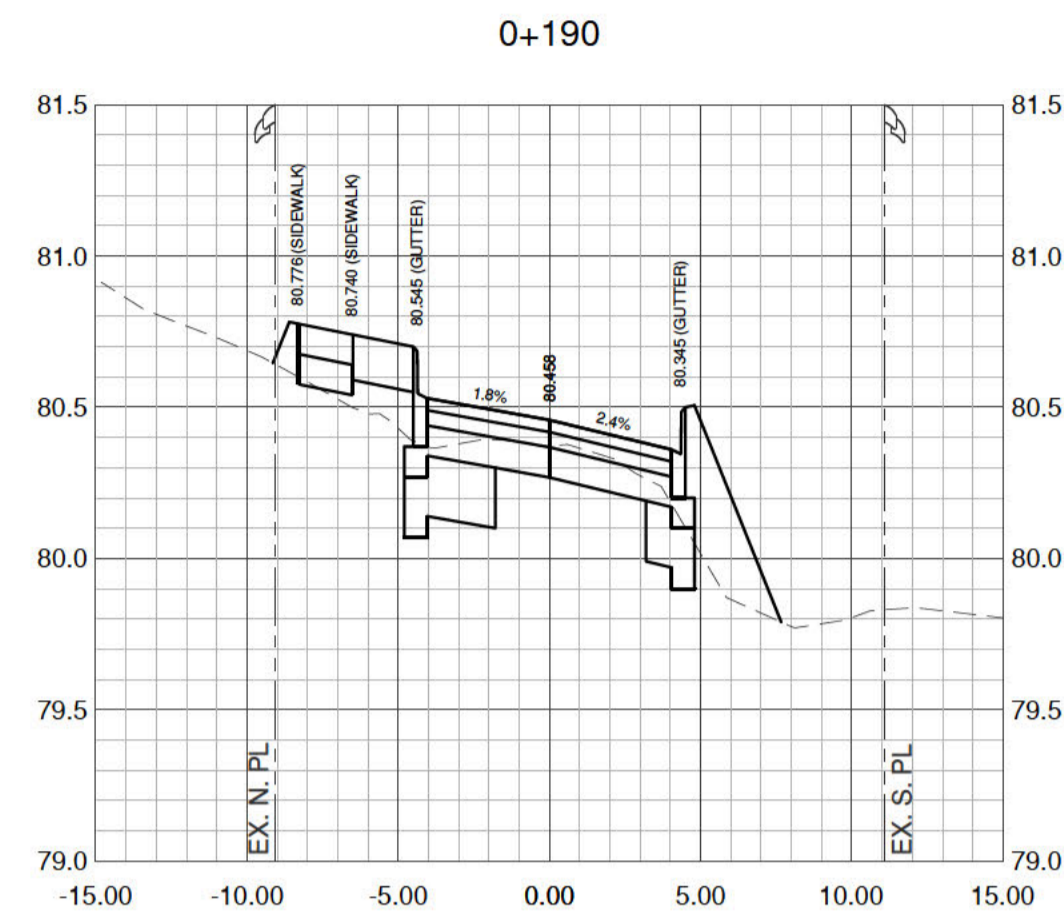
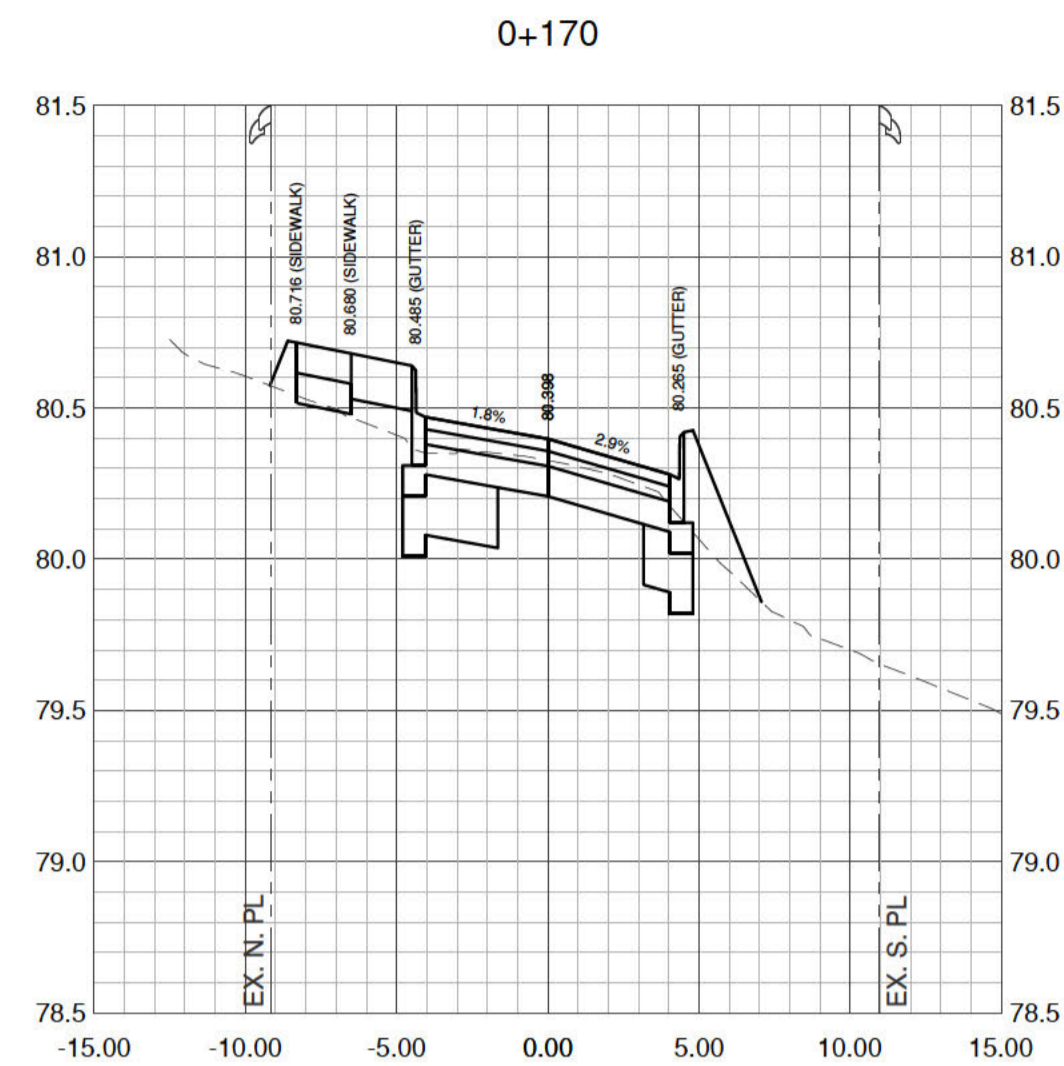
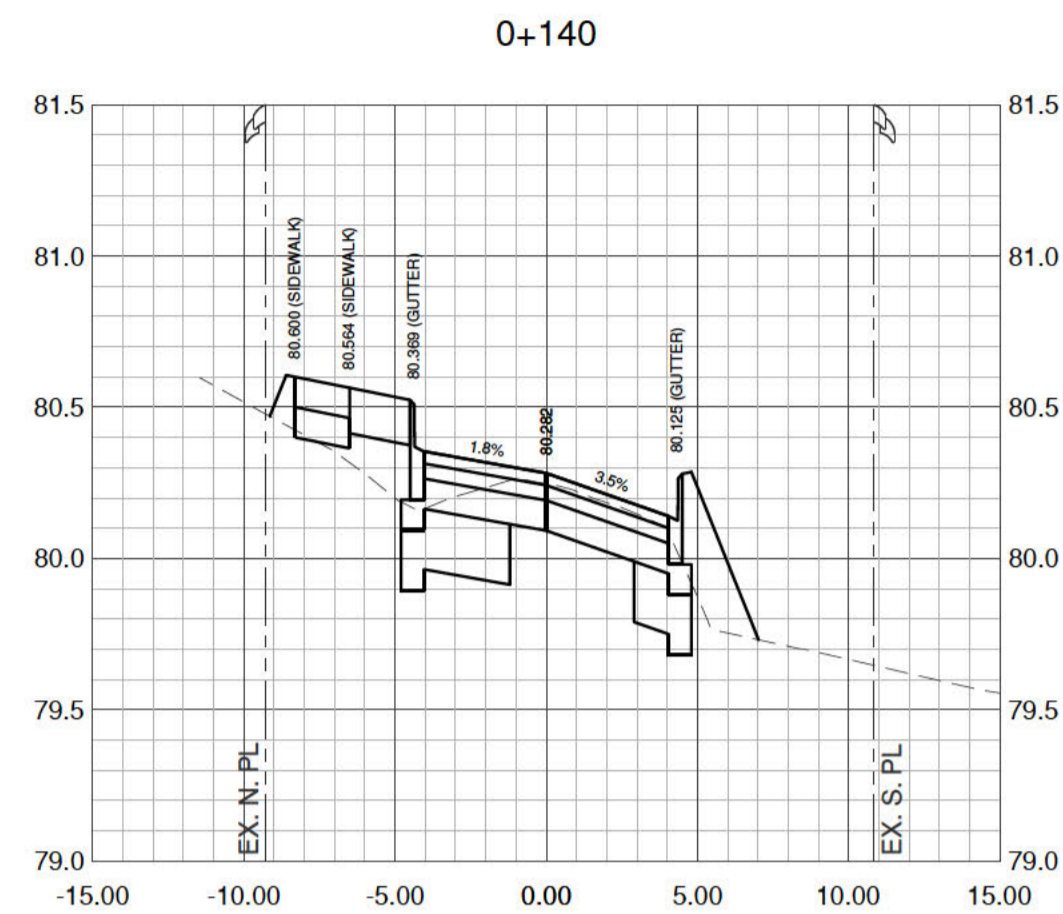
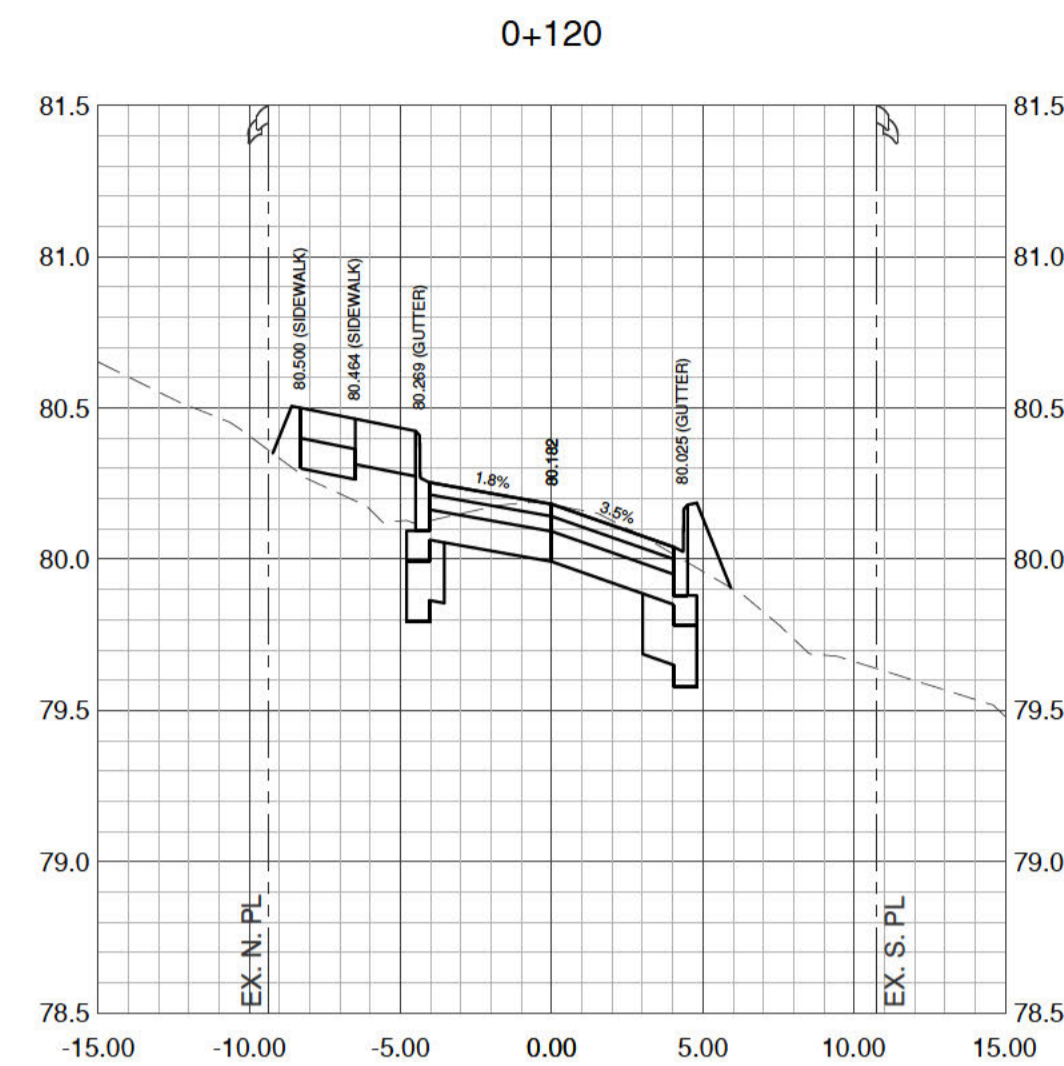


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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET WATER SERVICE UPGRADES

SURVEYED BY	TA
DRAWN BY	NM
DESIGNED BY	NM
CHECKED BY	MH
SCALES	0 1:500 20m

DATE	2020-06-08
DRAWING No.	20-0063-WS1-1
SHEET	06 OF 13
REV.	1
DESTROY ALL PRINTS BEARING PREVIOUS No.	



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2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

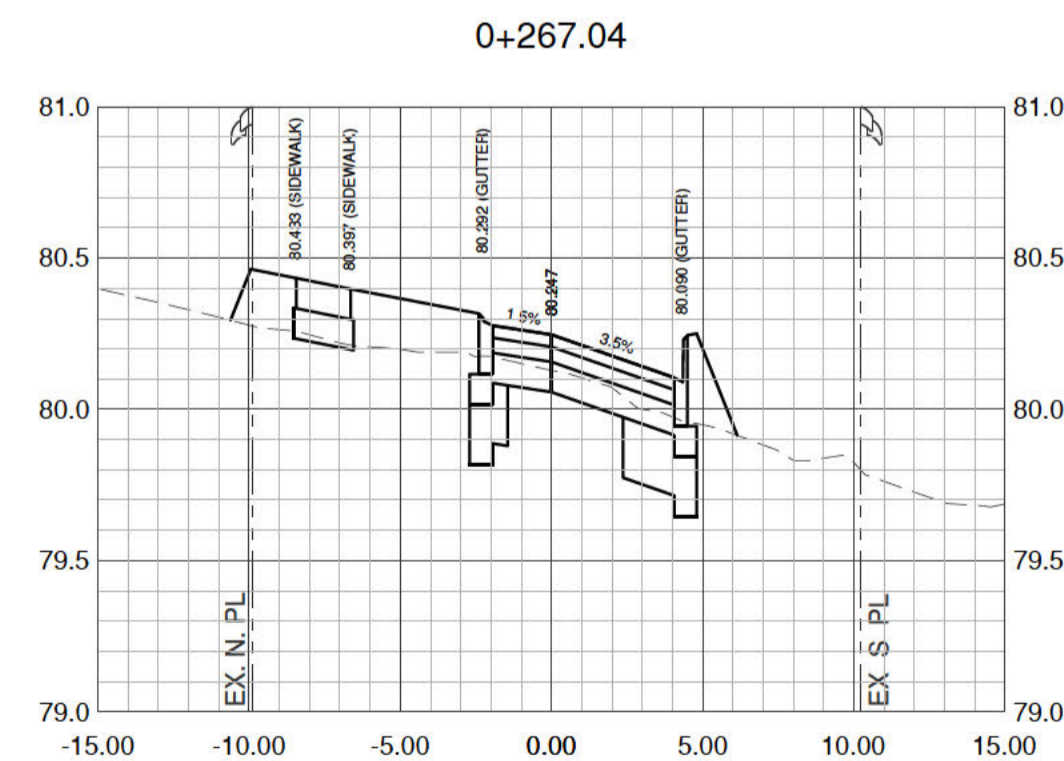
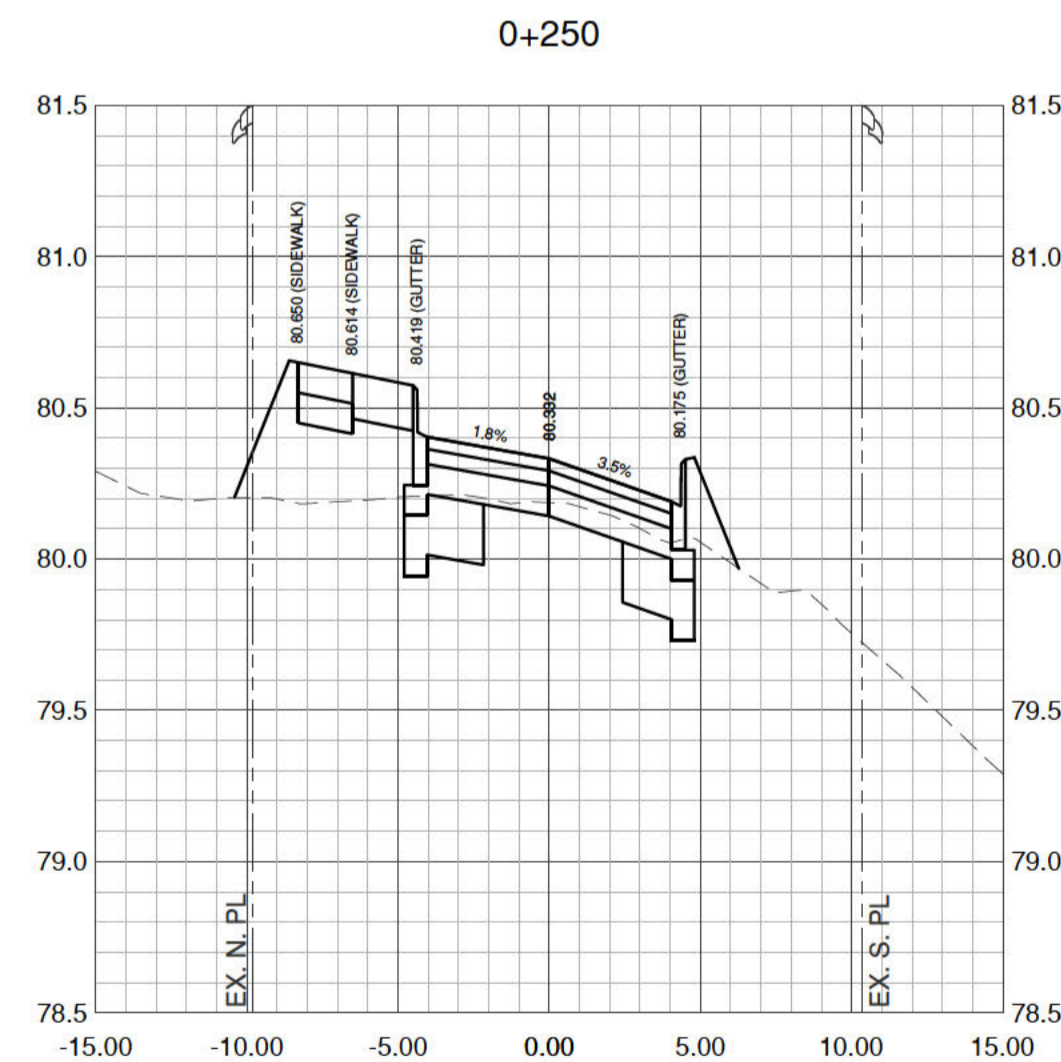
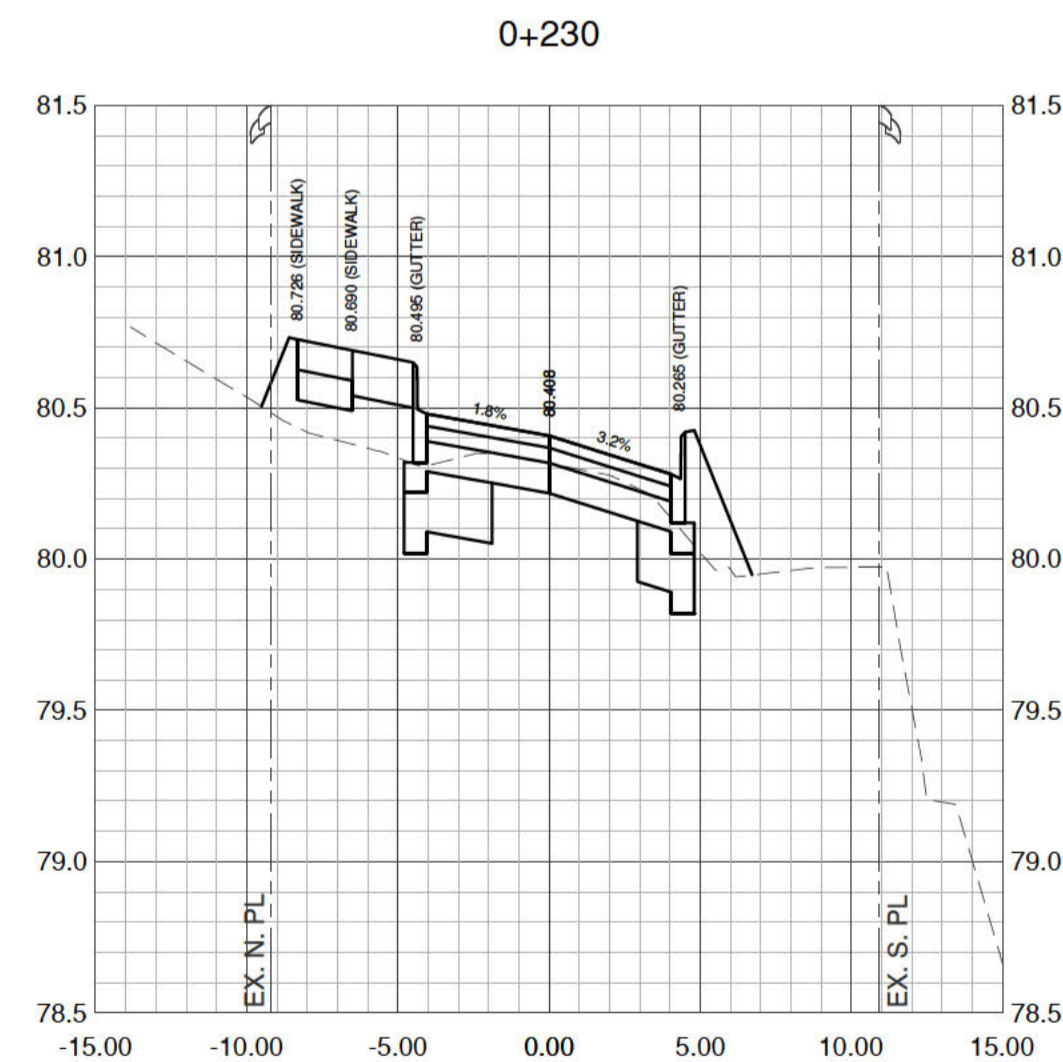
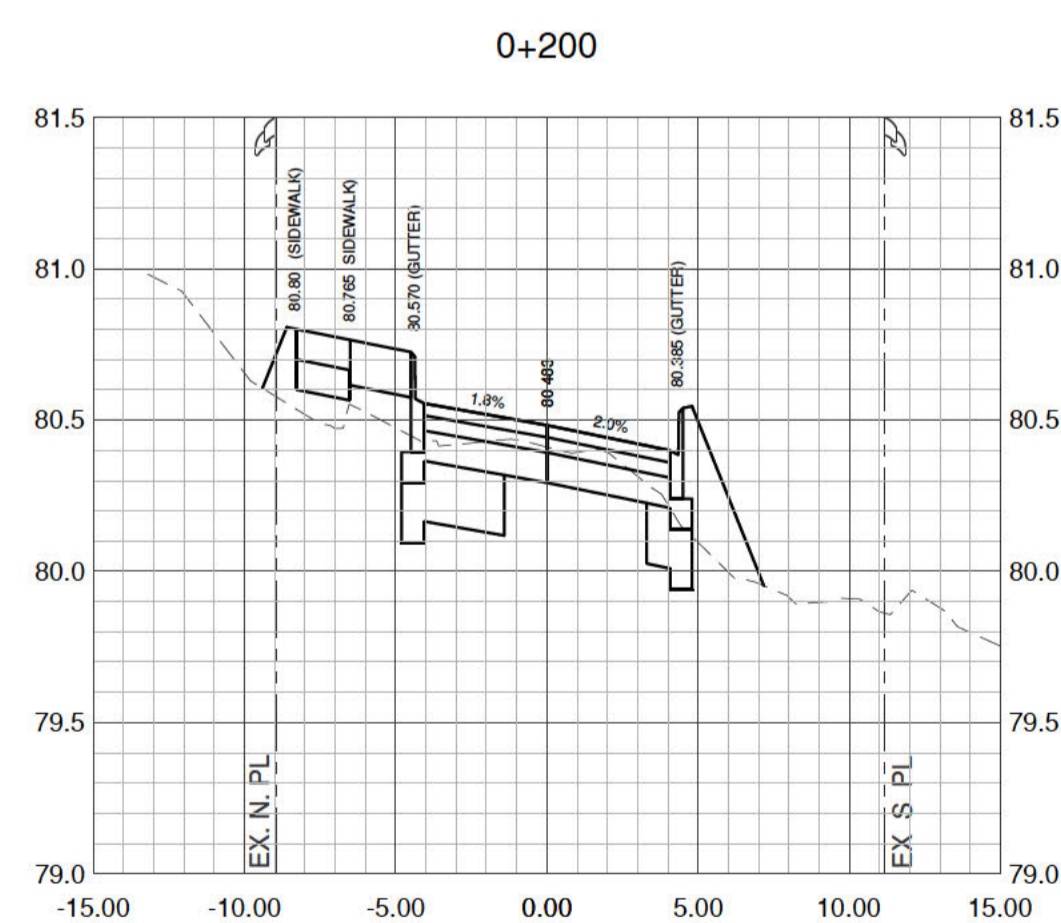
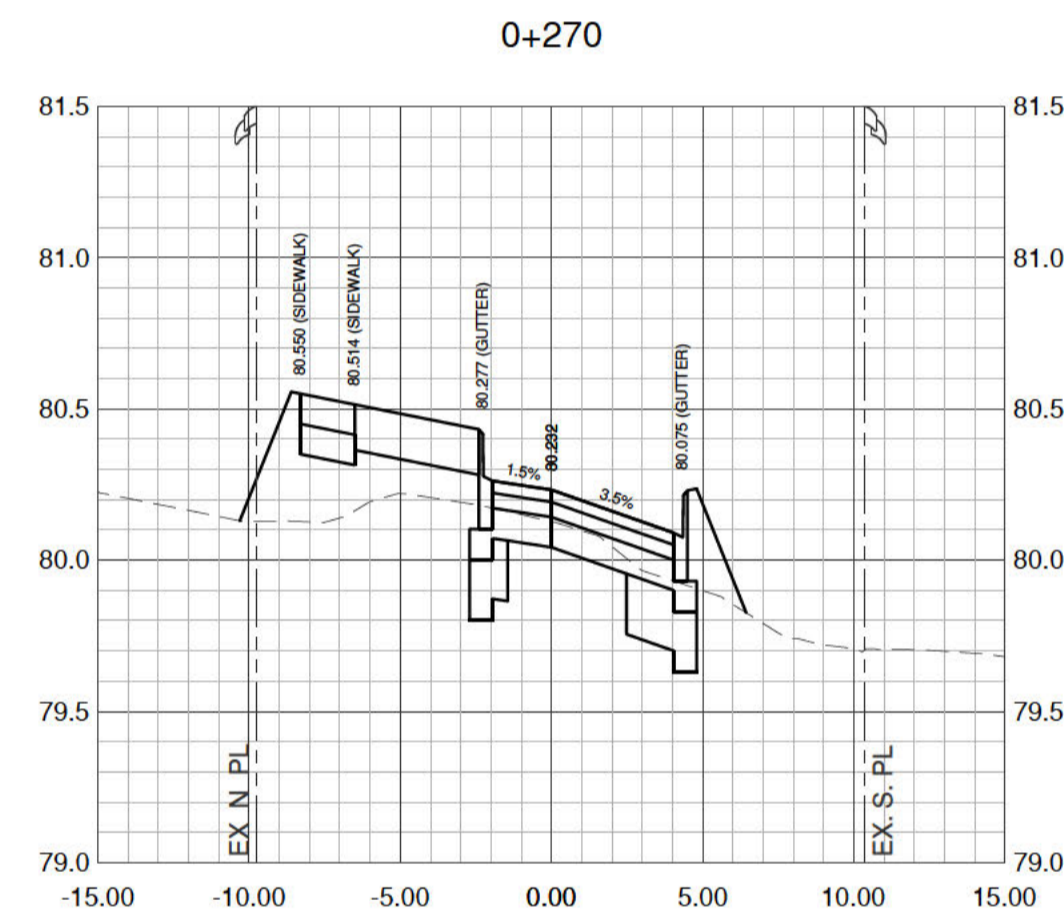
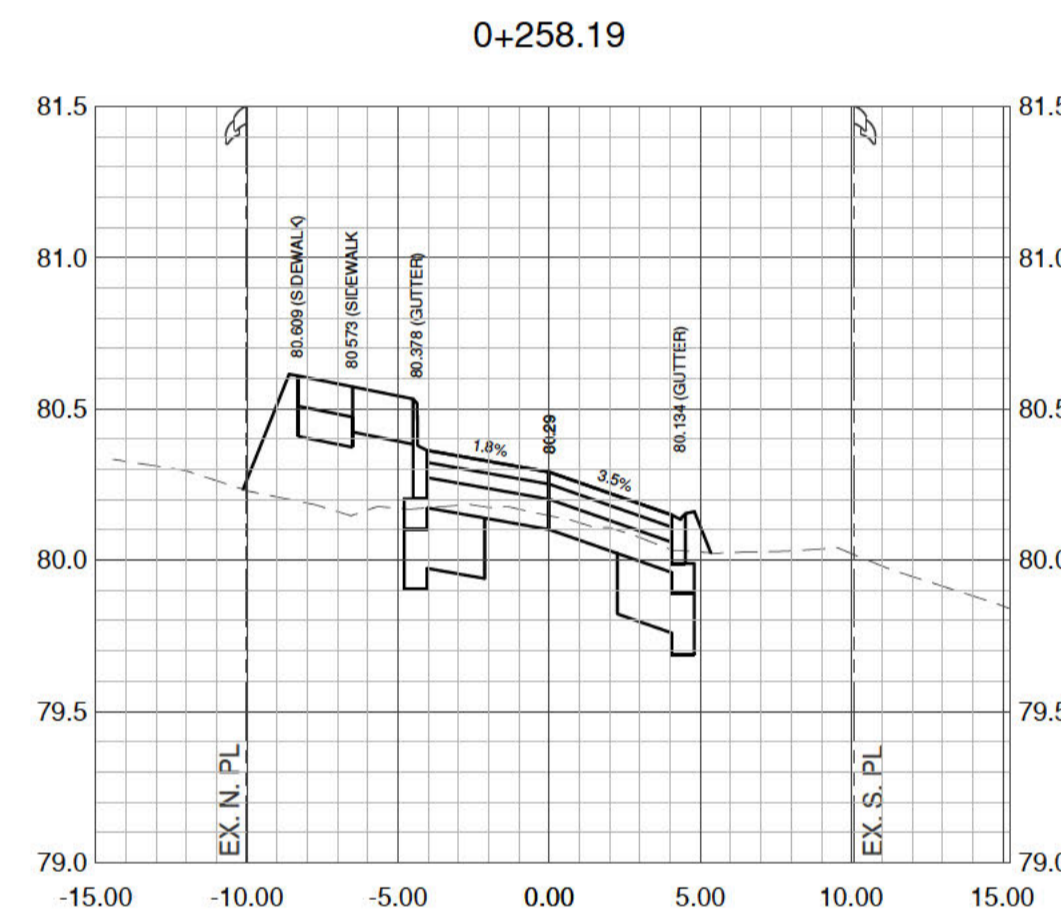
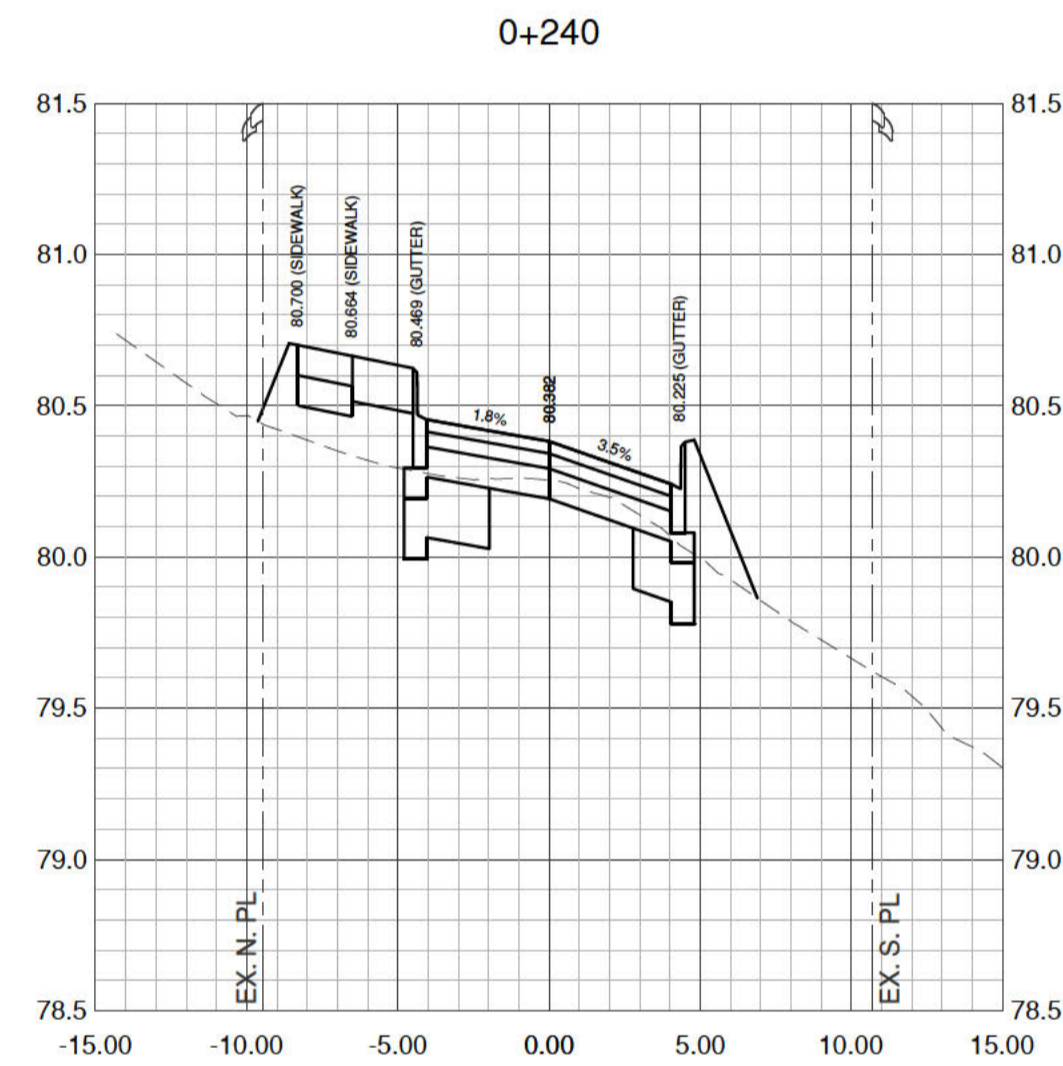
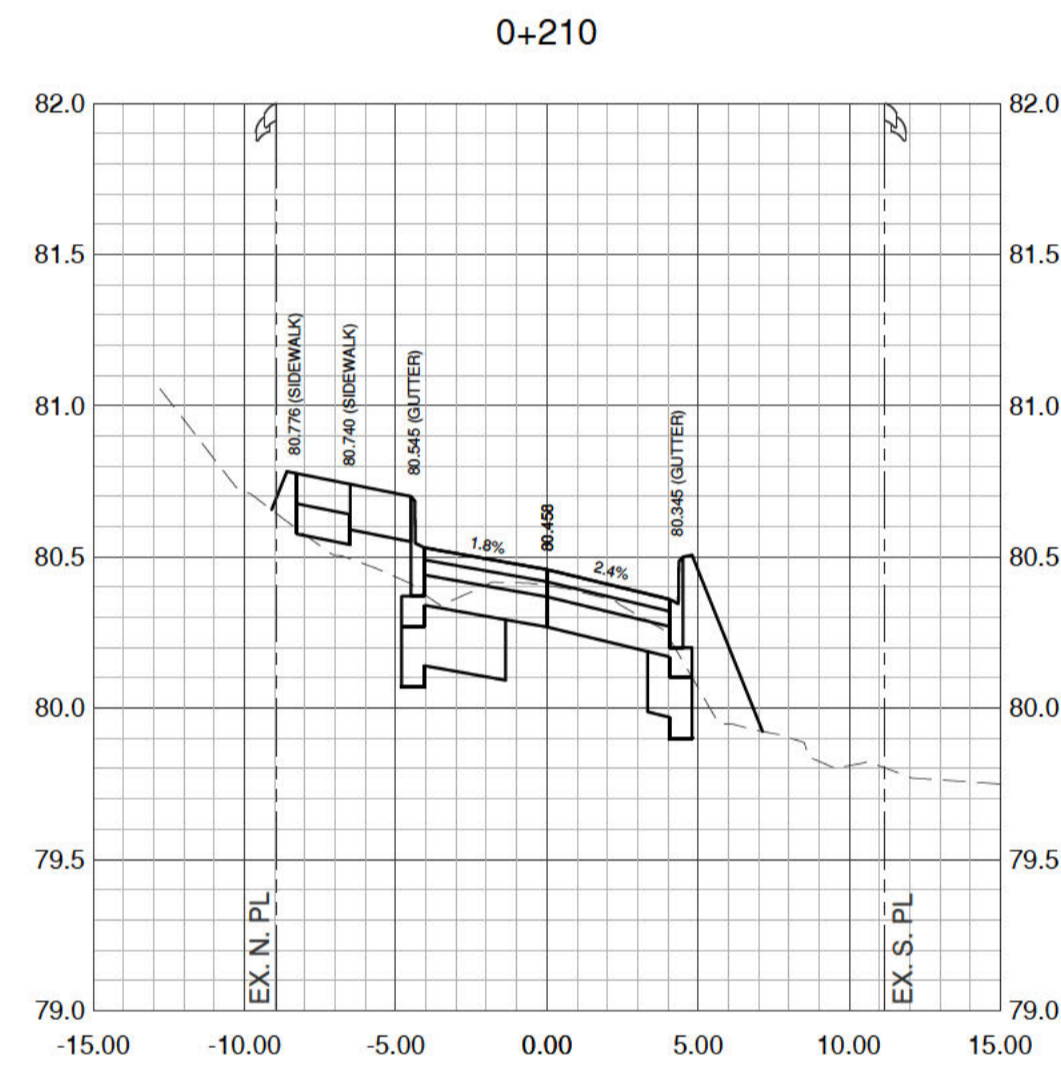
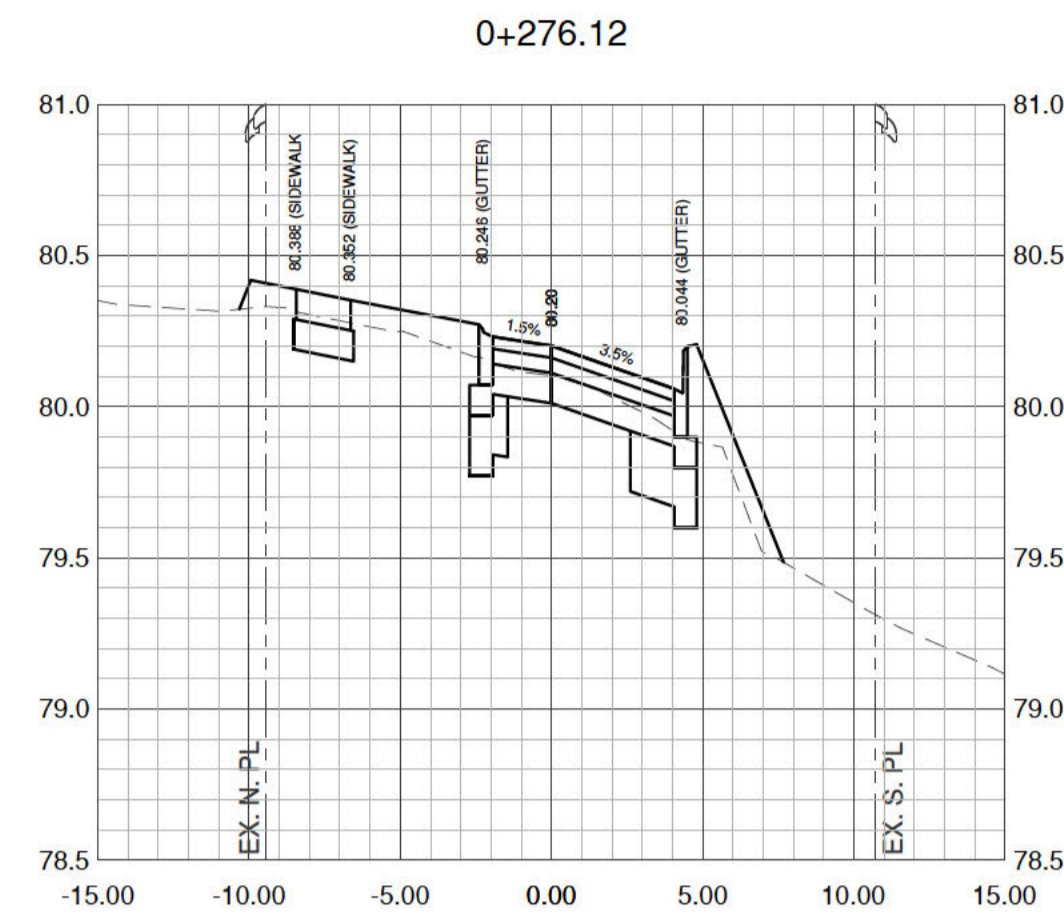
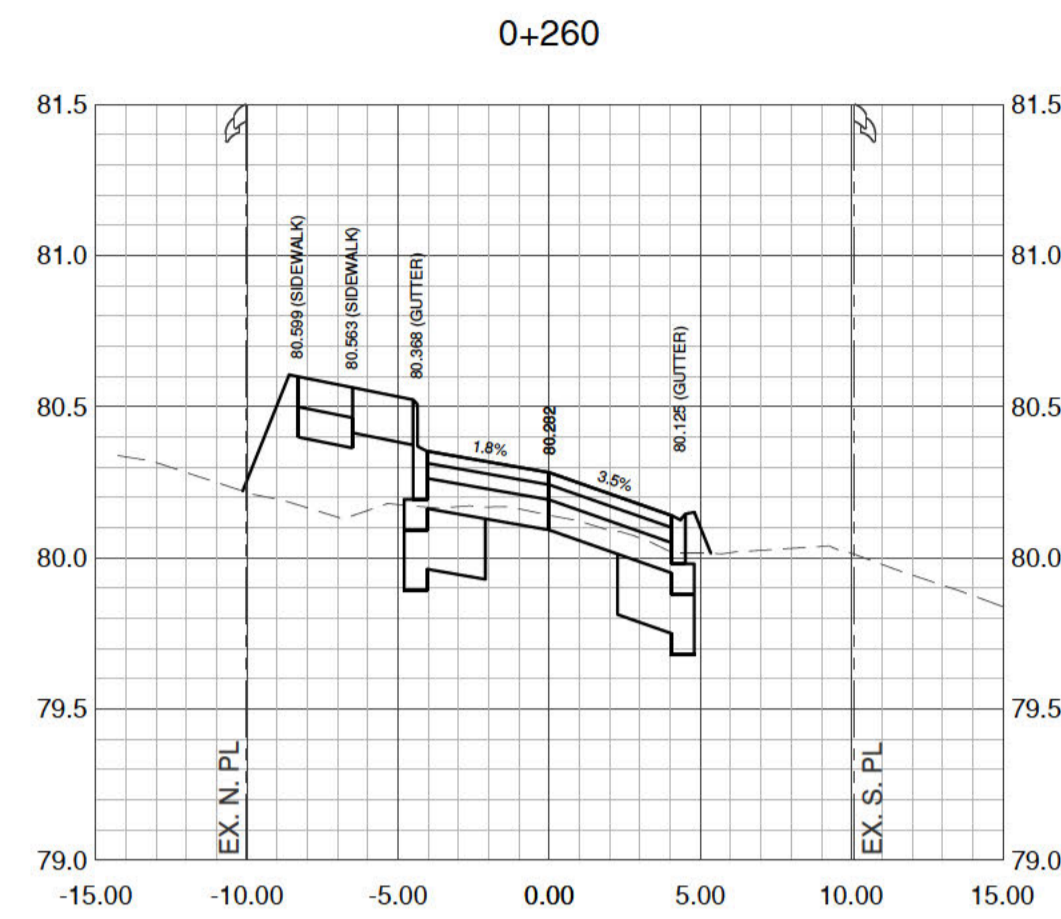
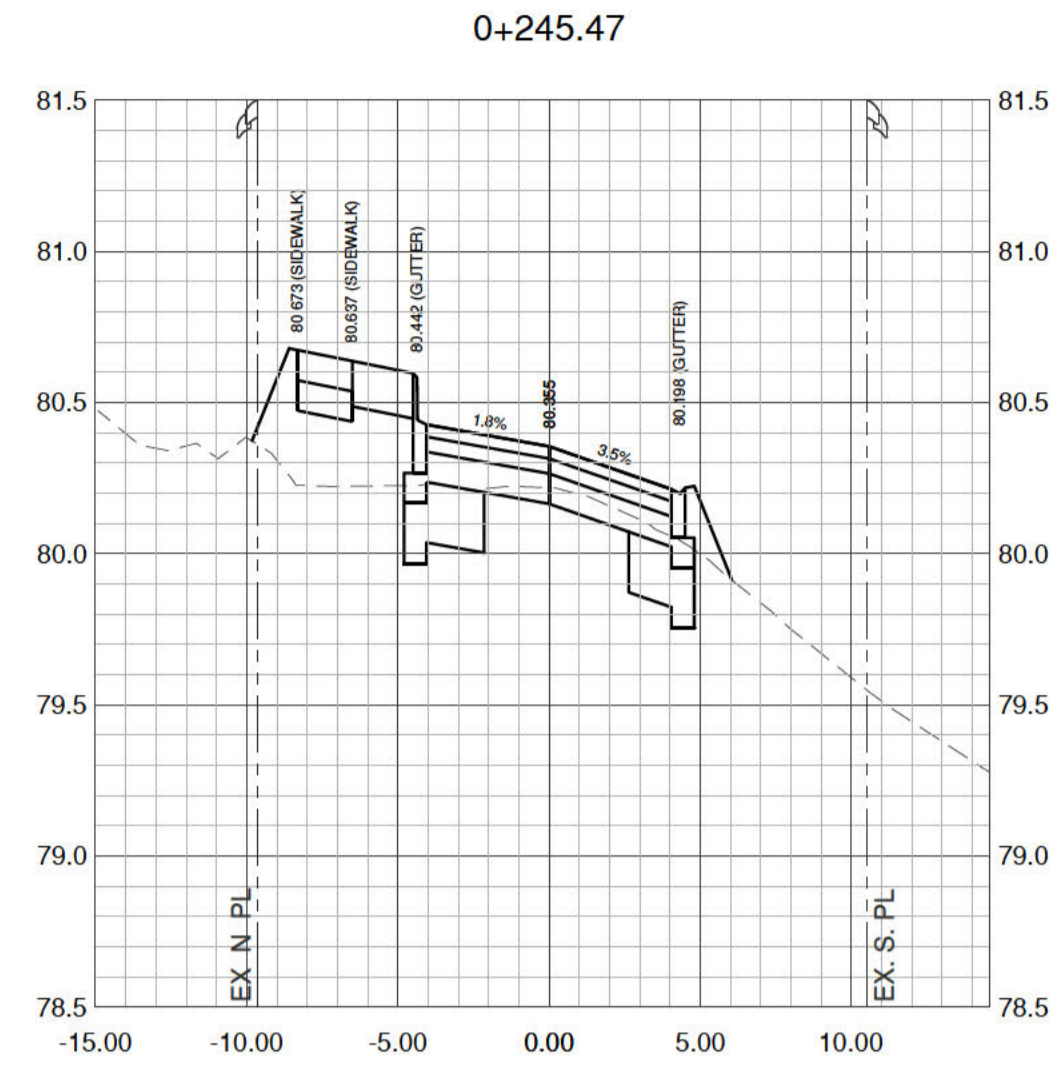
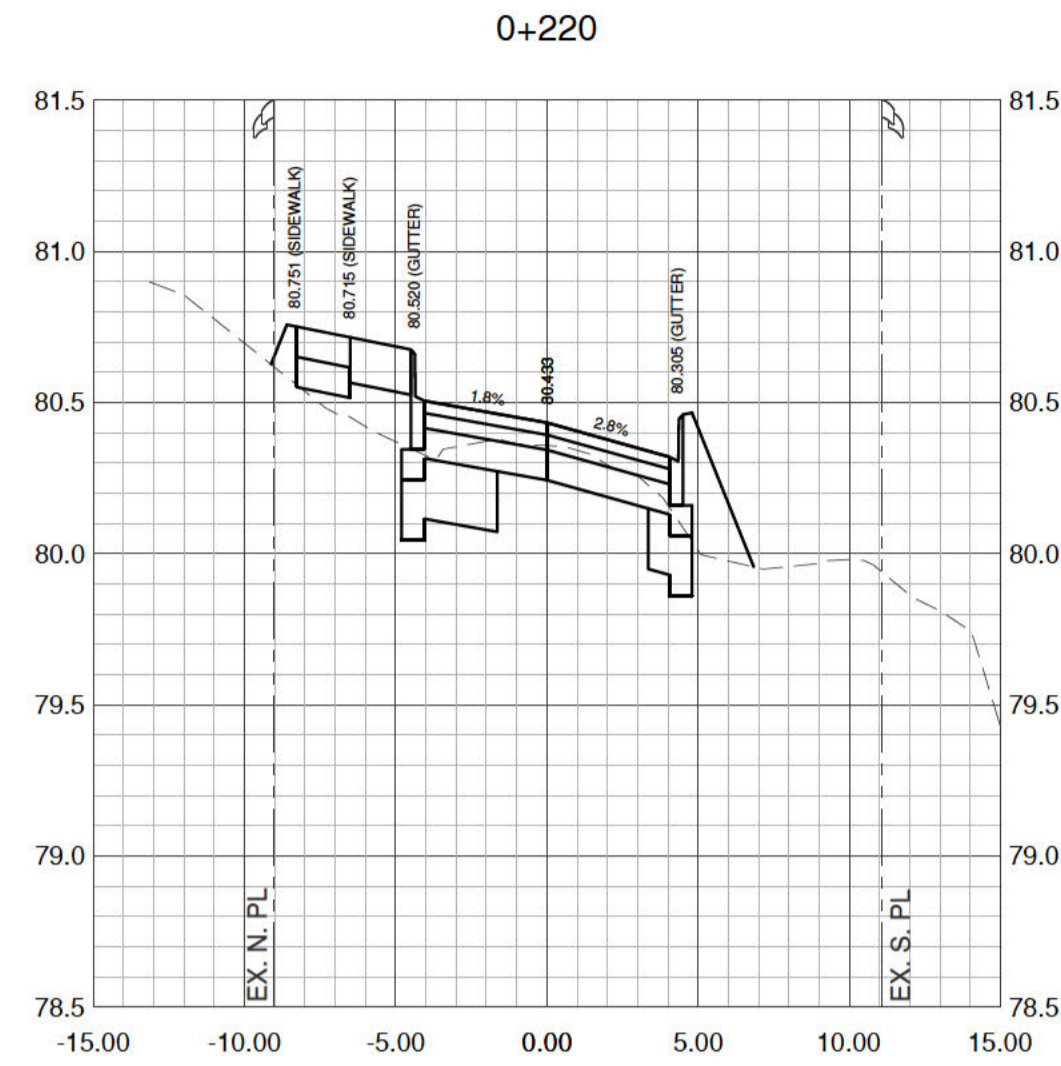
SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
 H 1:250
 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-1

SHEET 10 OF 13
 REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.



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CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
DRAWN BY SV
DESIGNED BY RANM
CHECKED BY RA

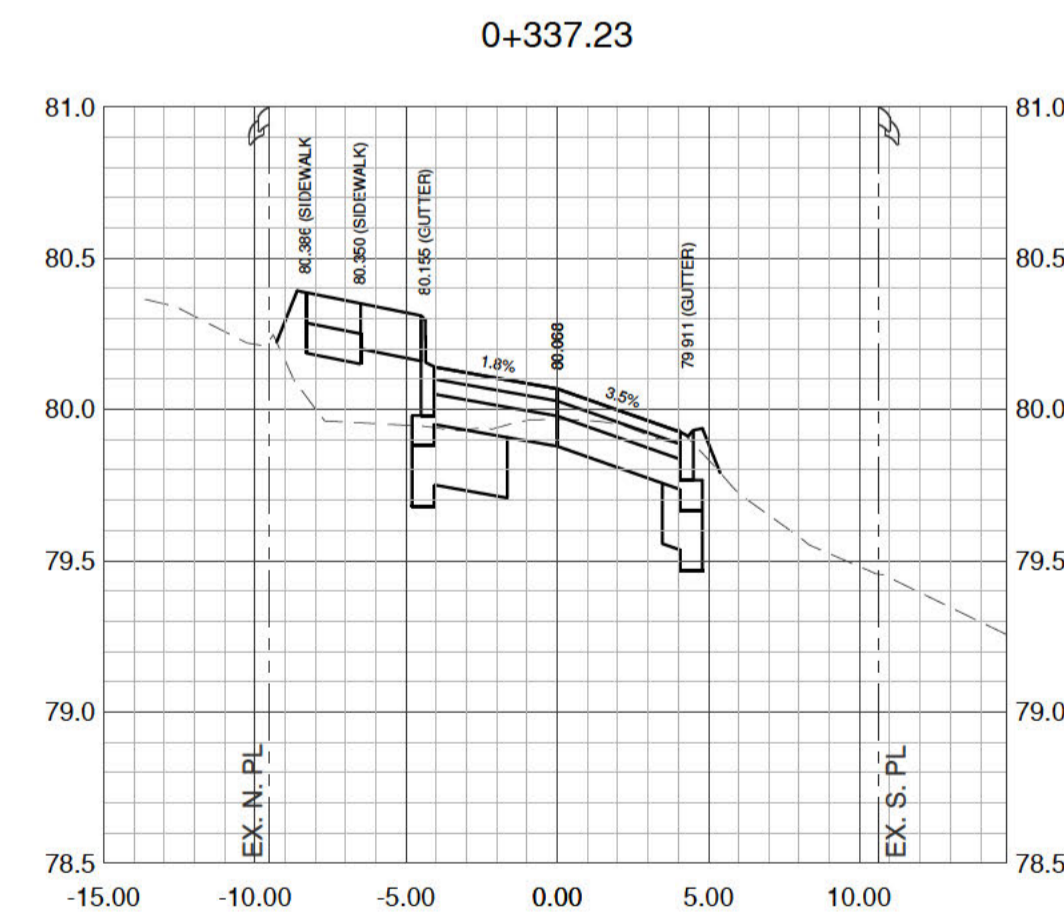
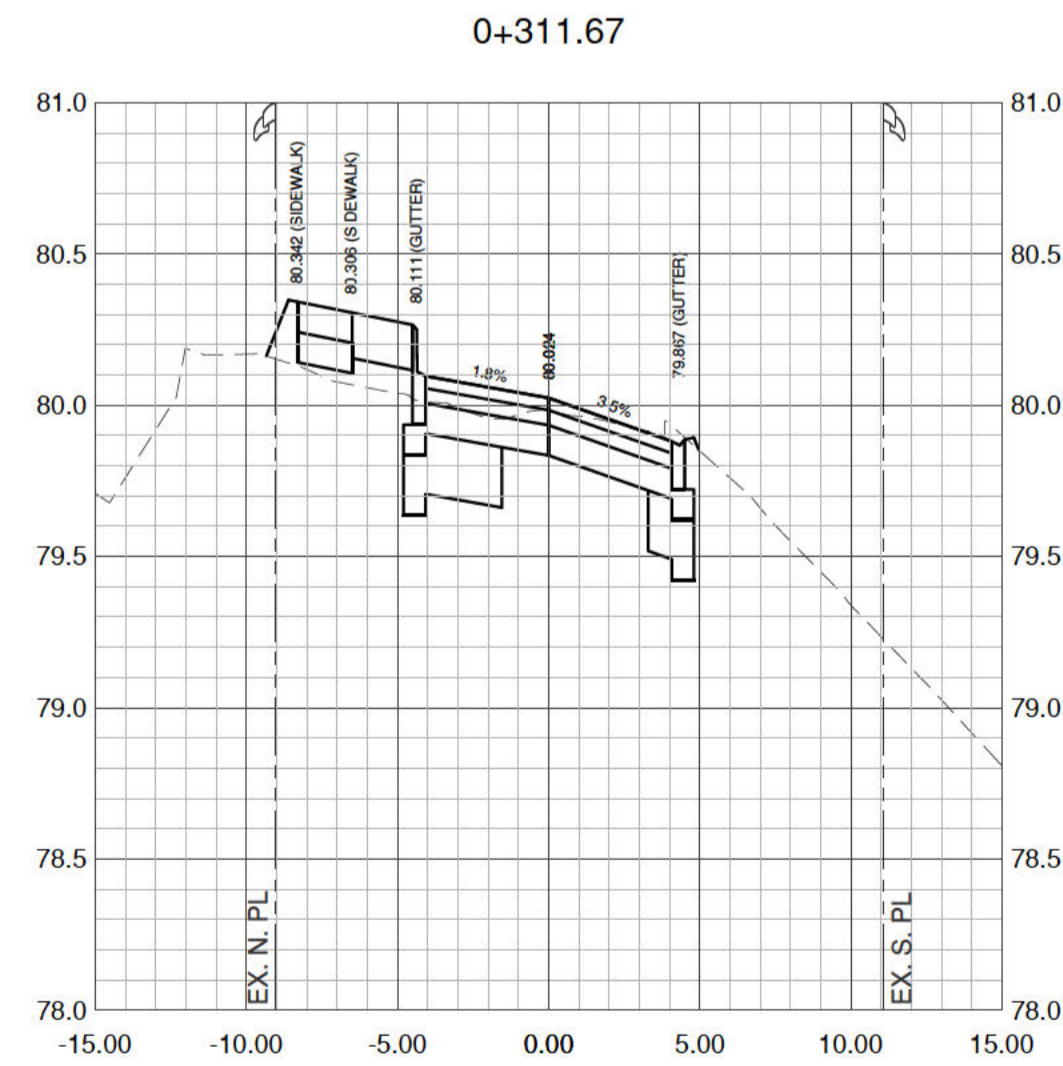
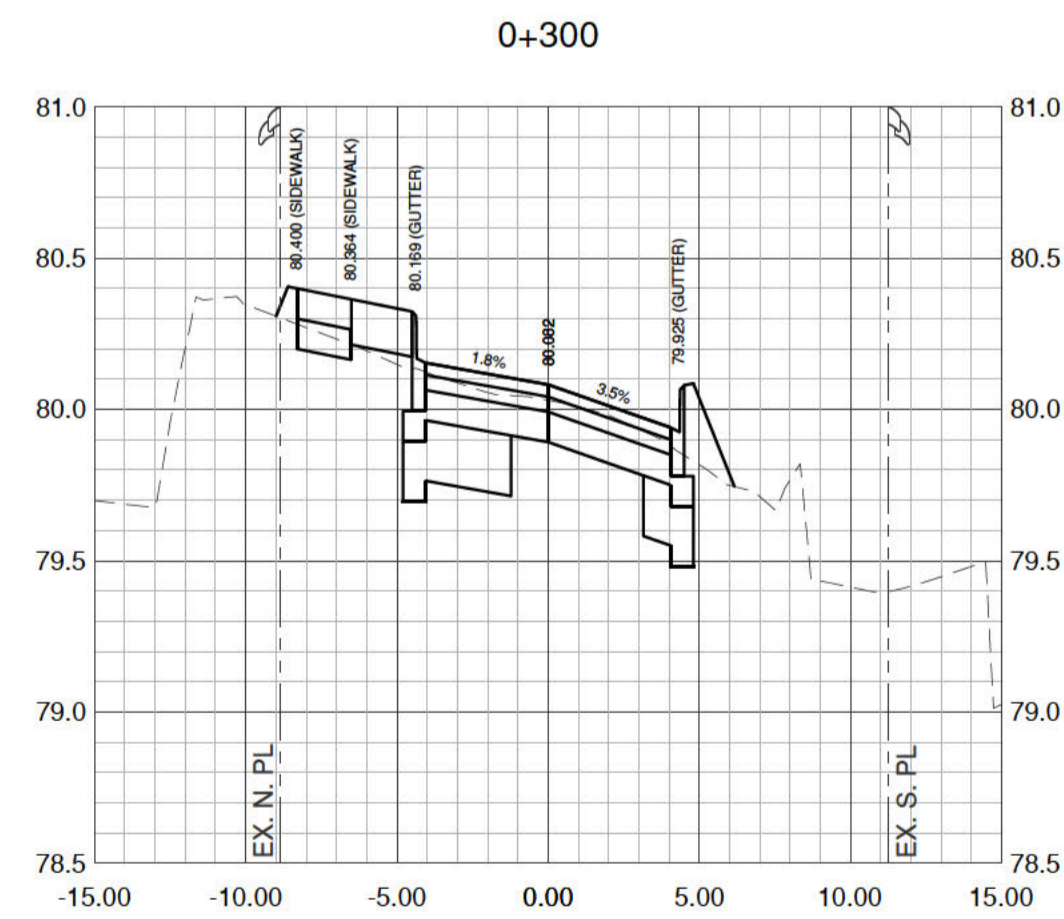
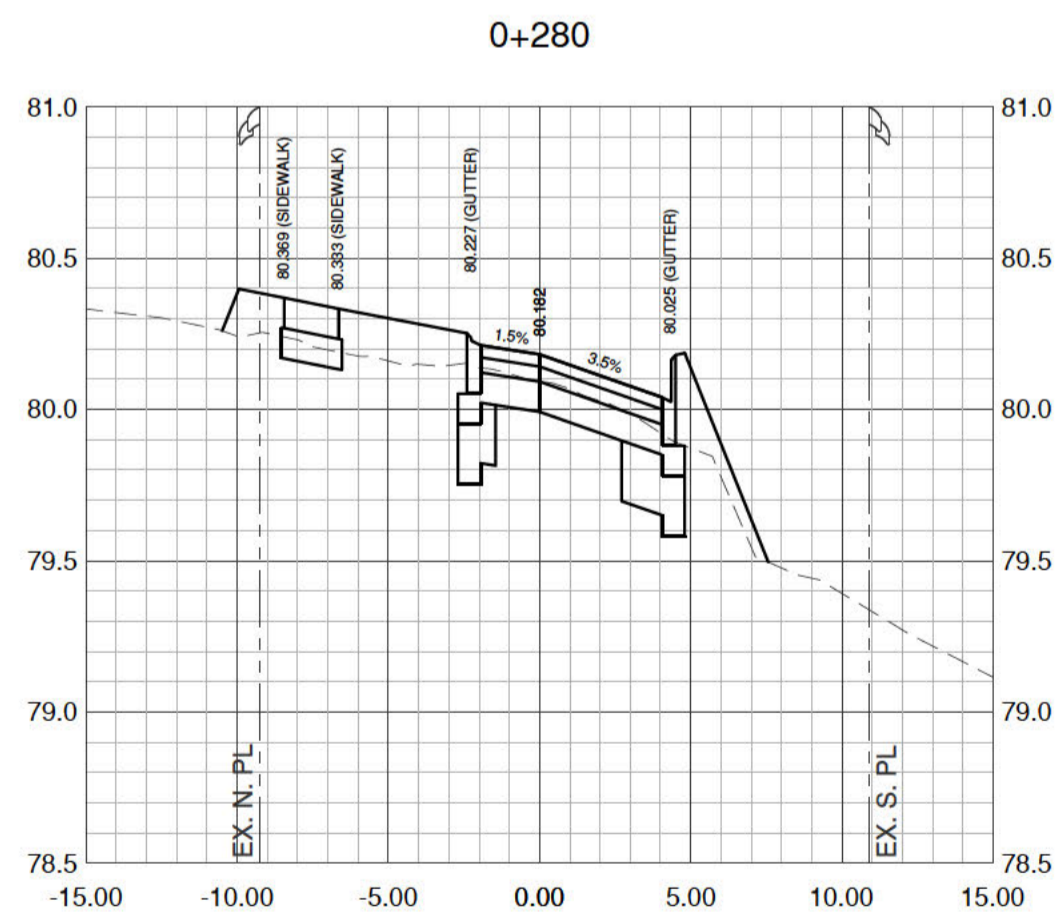
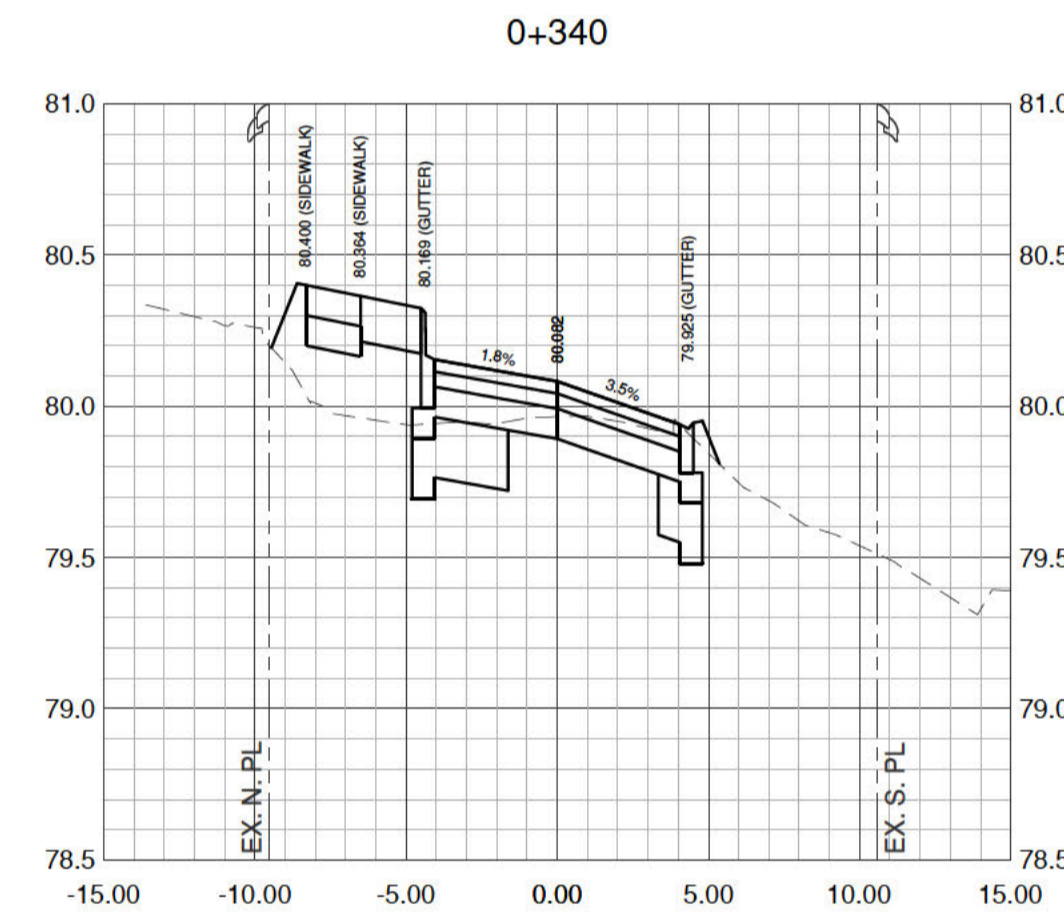
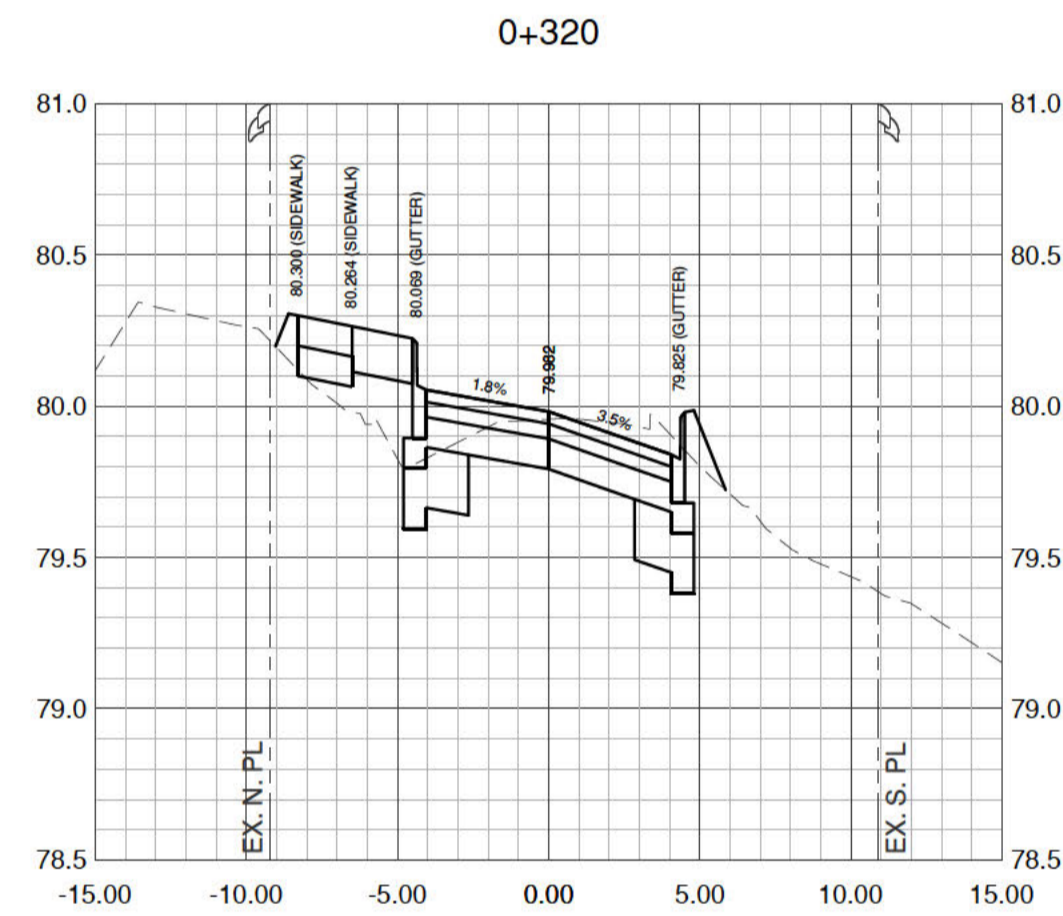
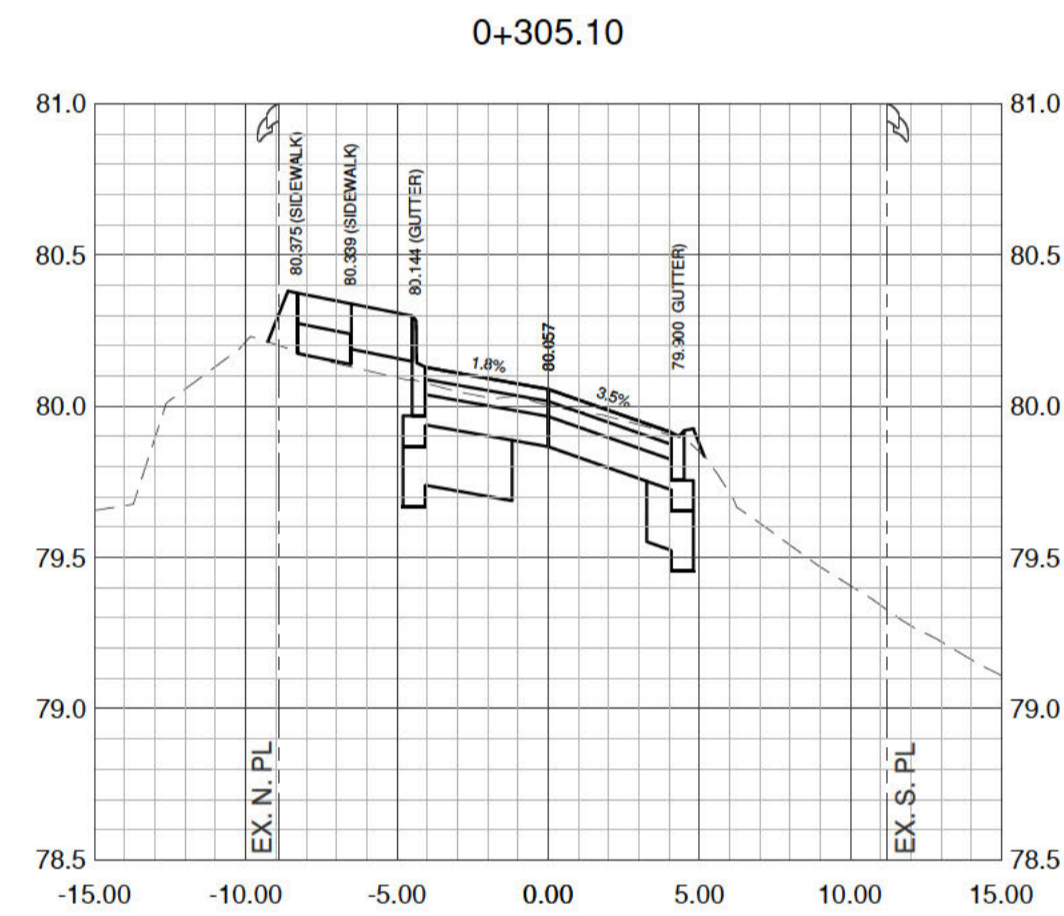
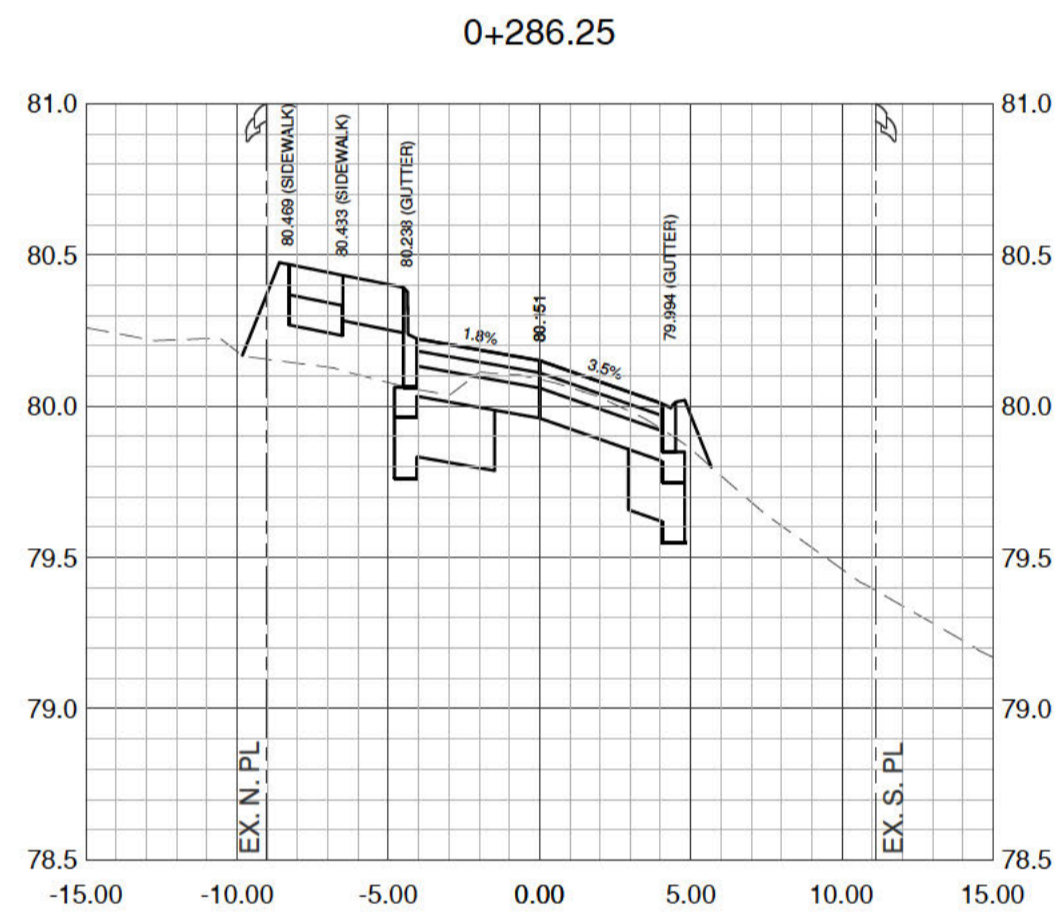
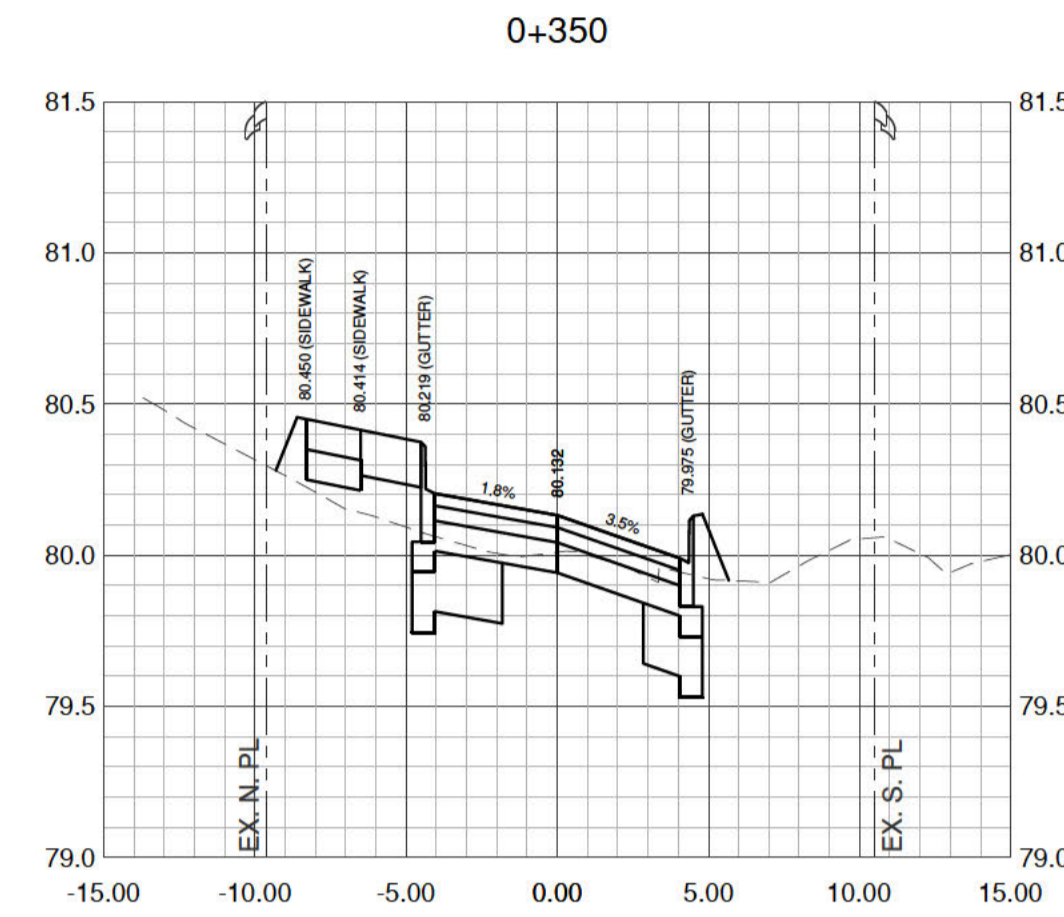
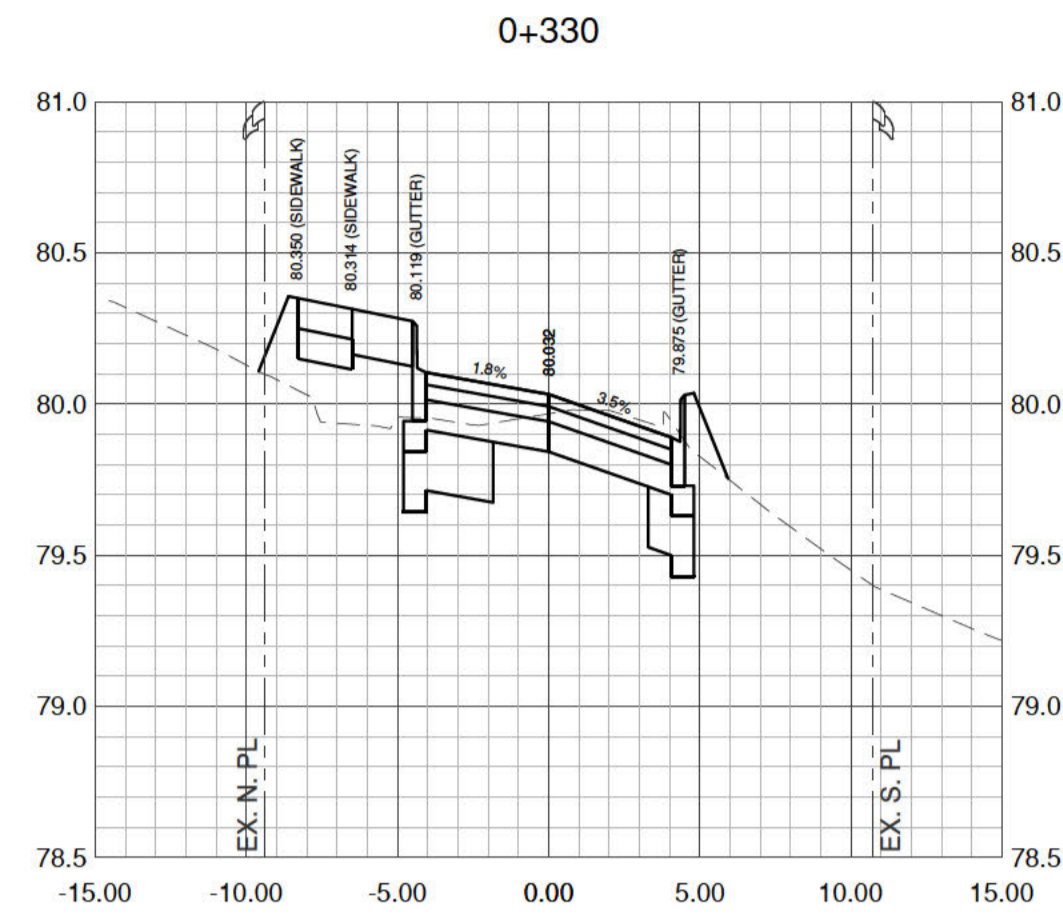
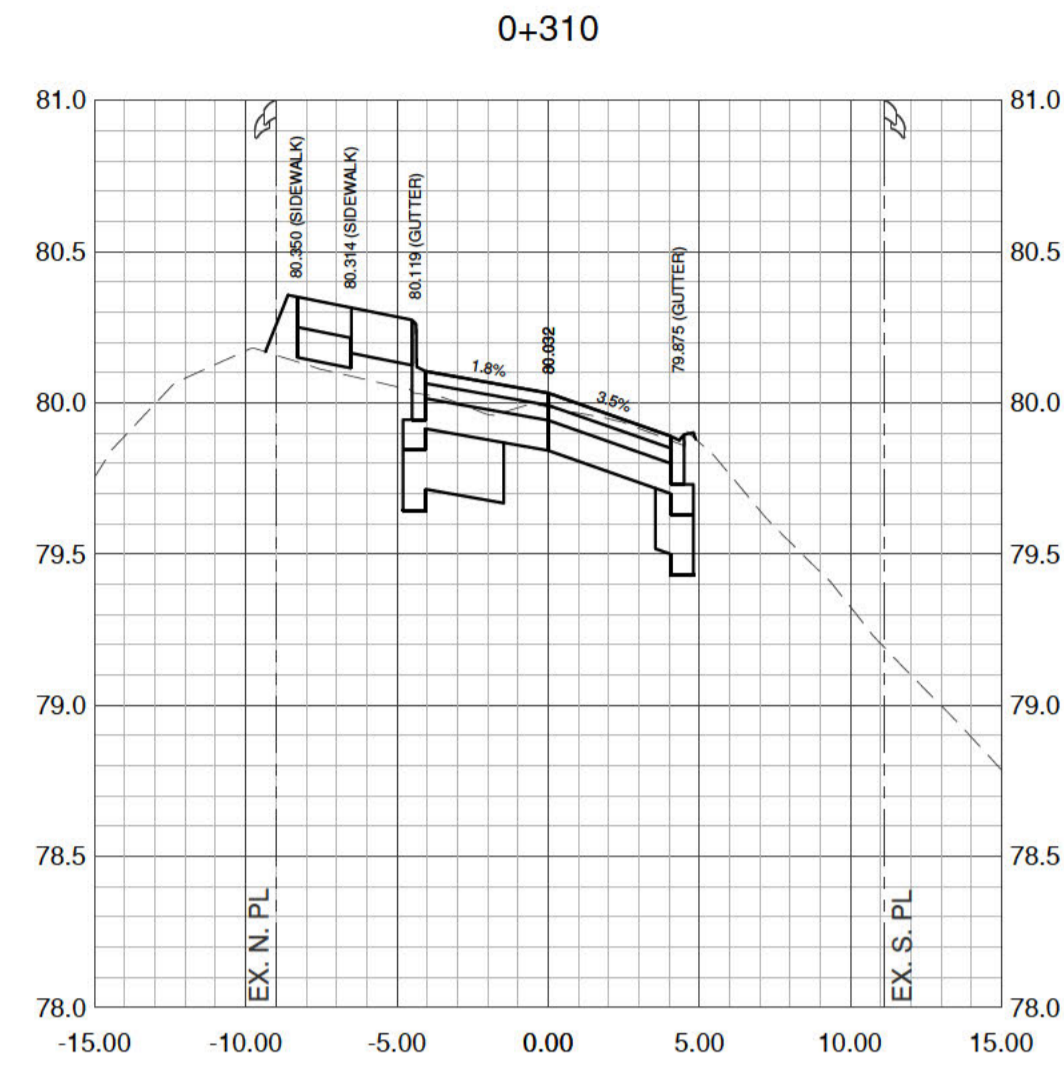
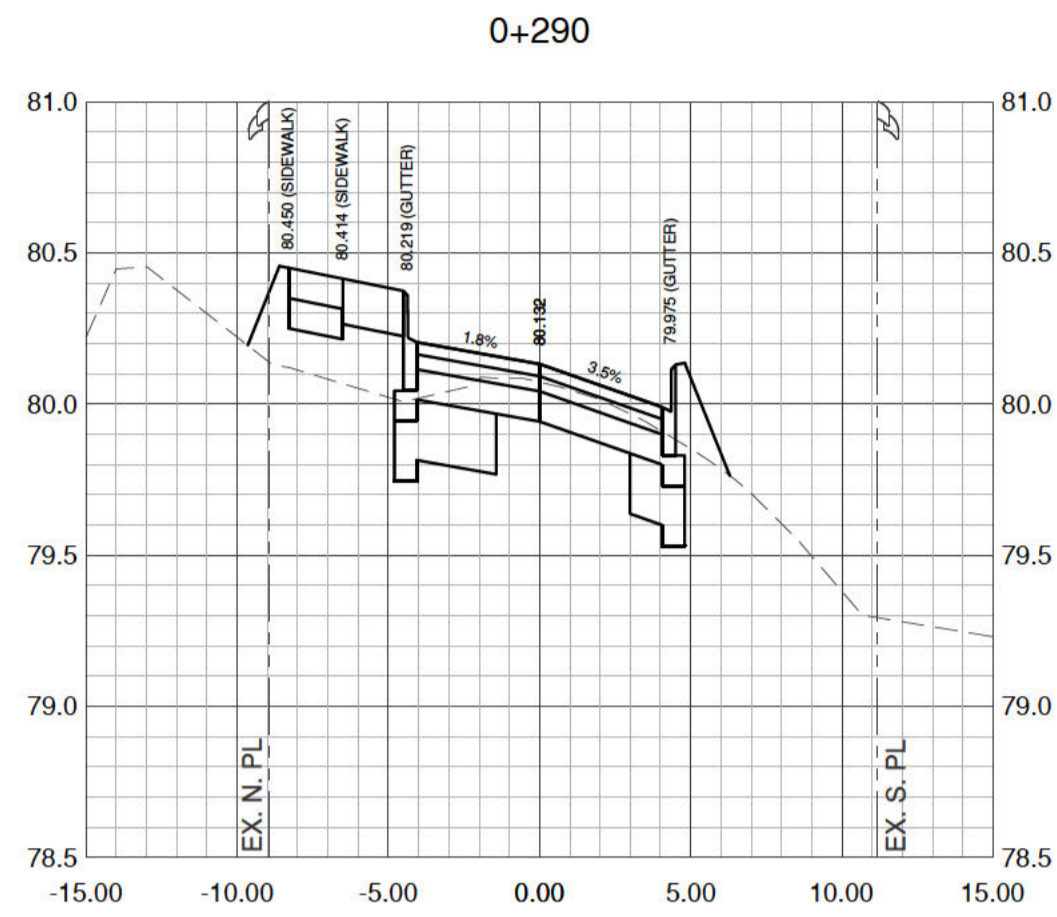
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V 1:25

DATE 2020-01-28
DRAWING No.
20-0063-XS1-2

SHEET 11 OF 13
REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.

No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

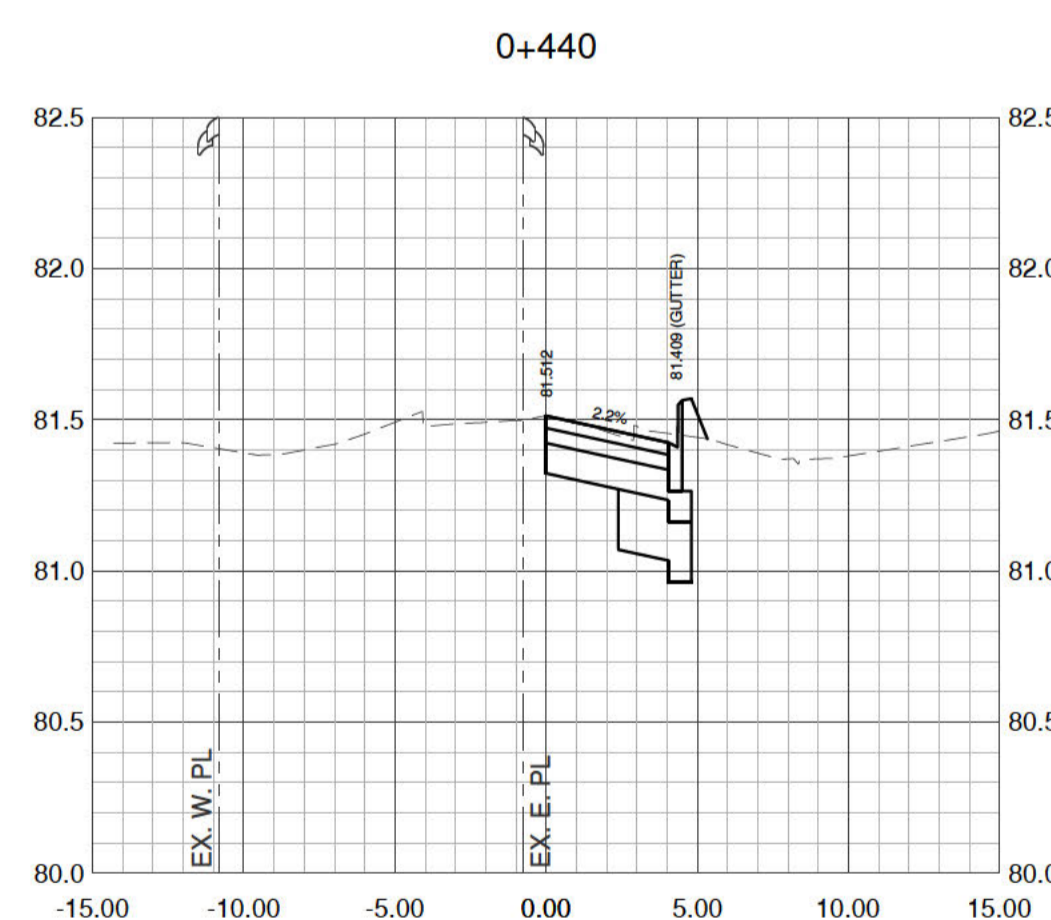
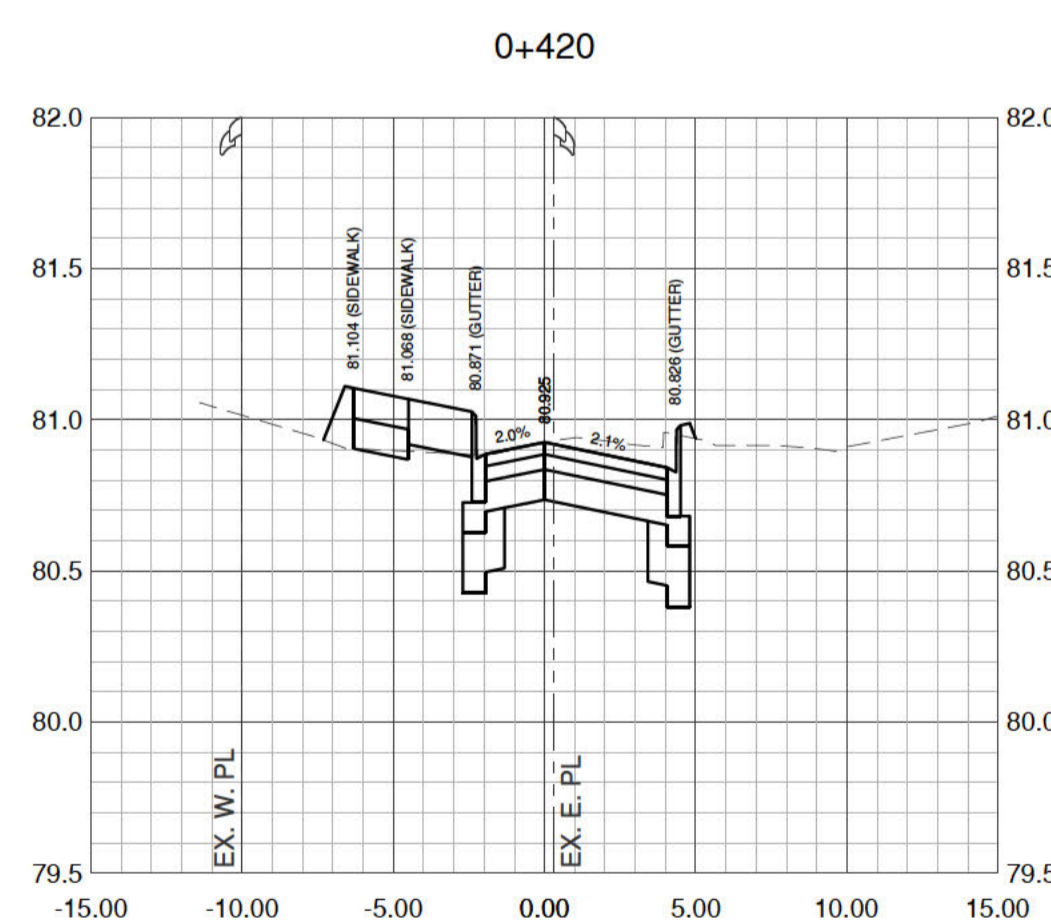
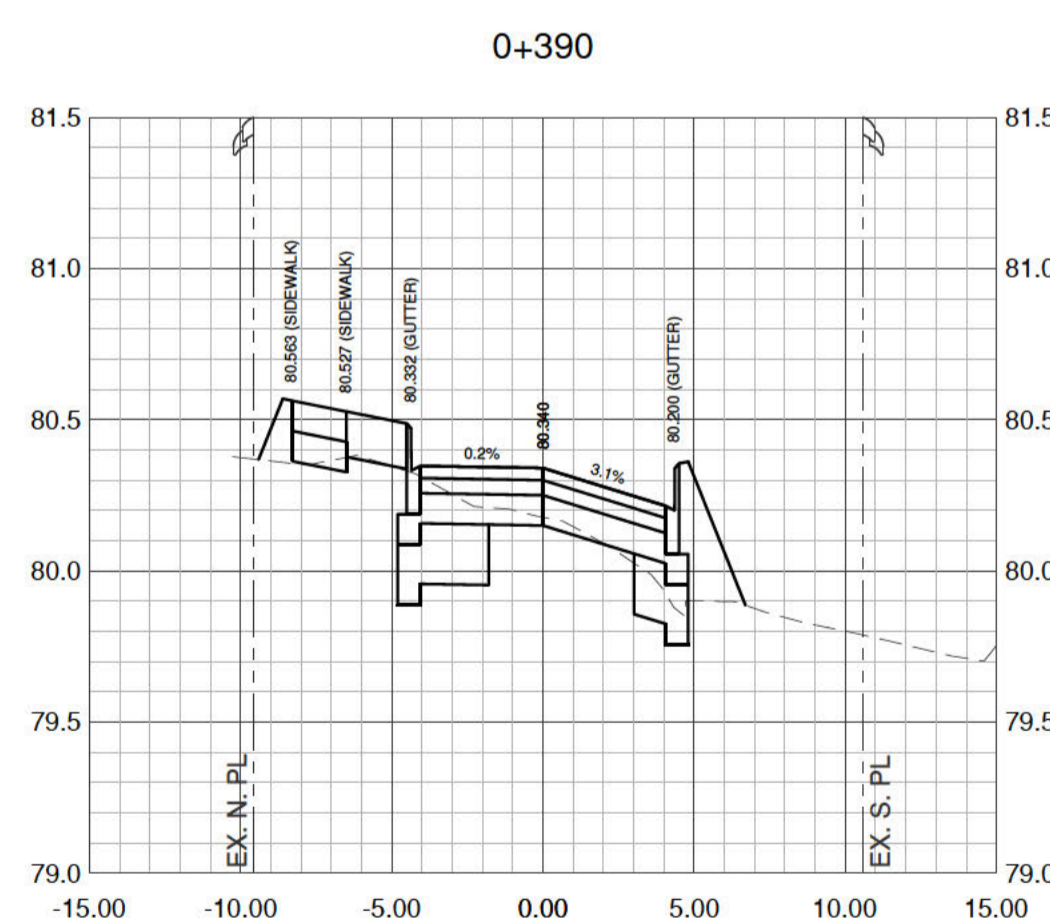
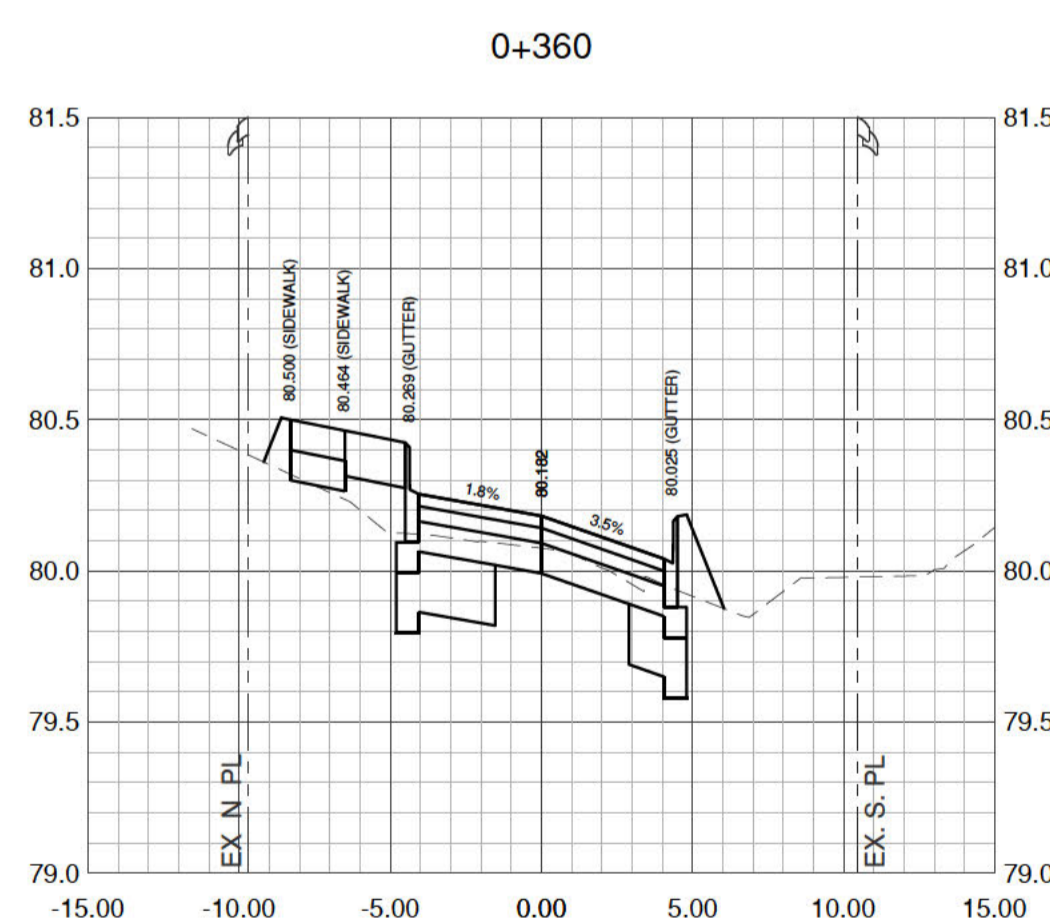
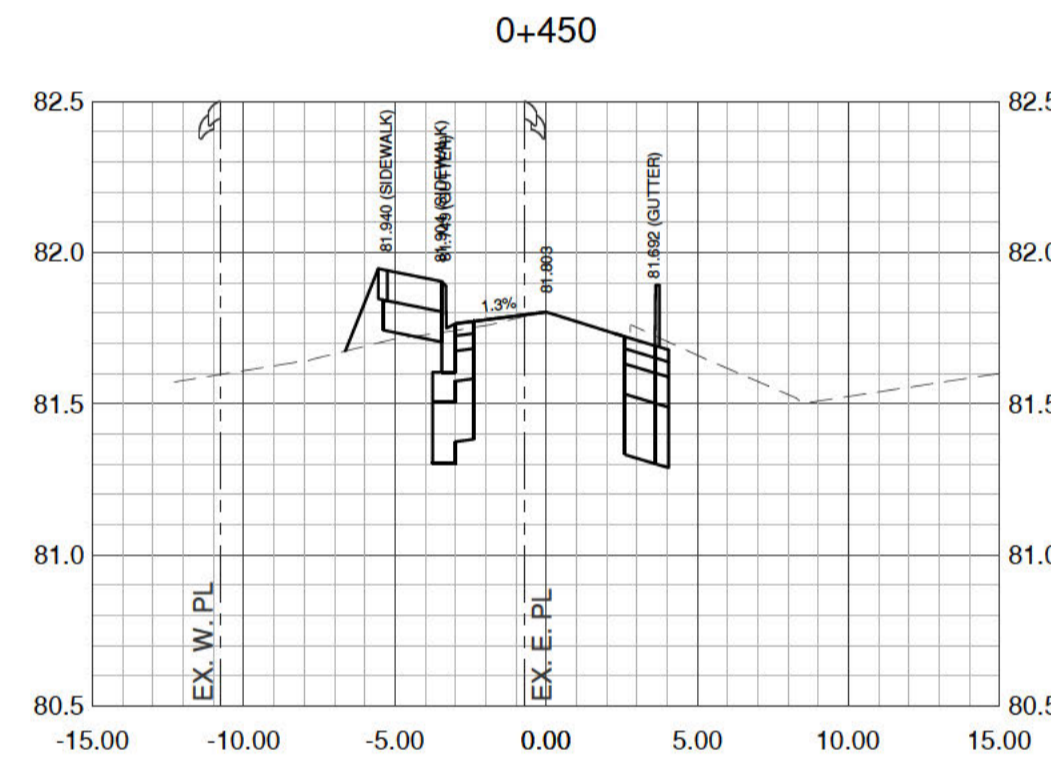
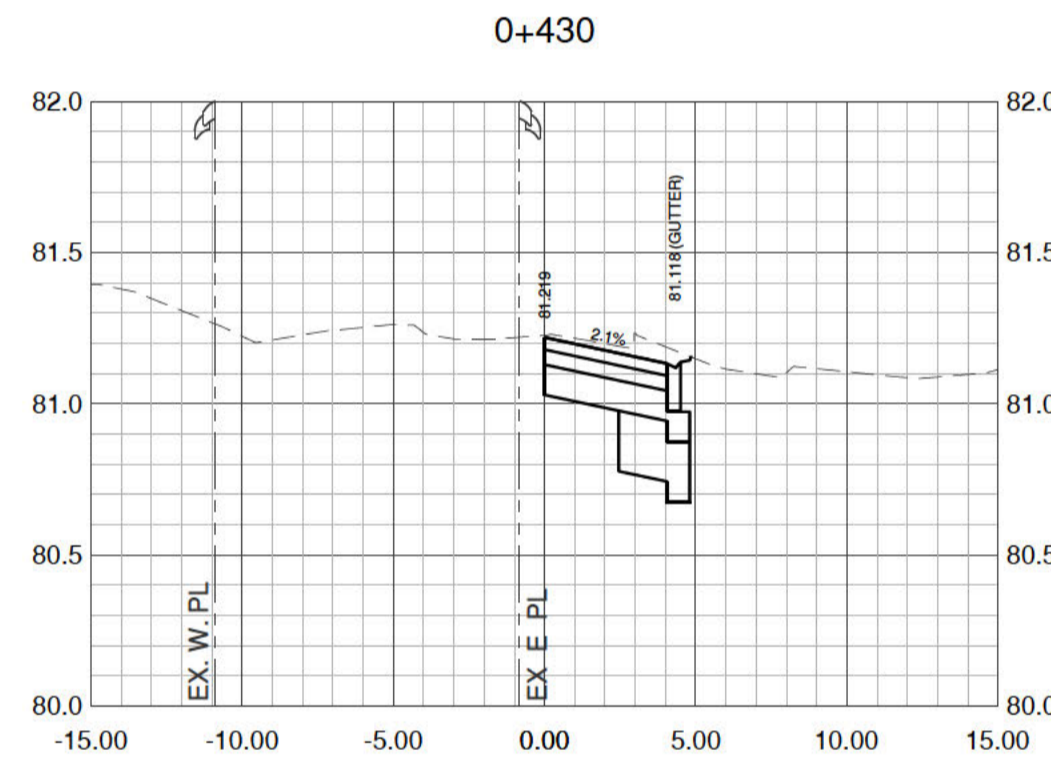
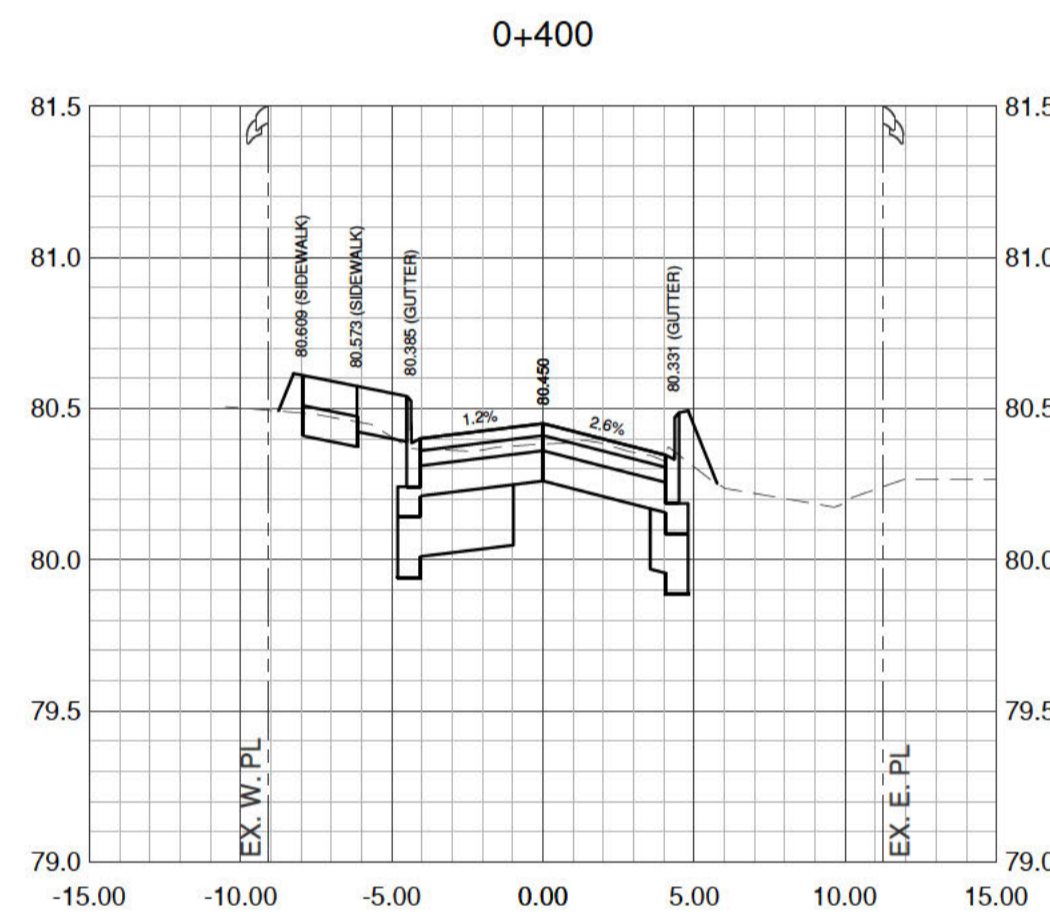
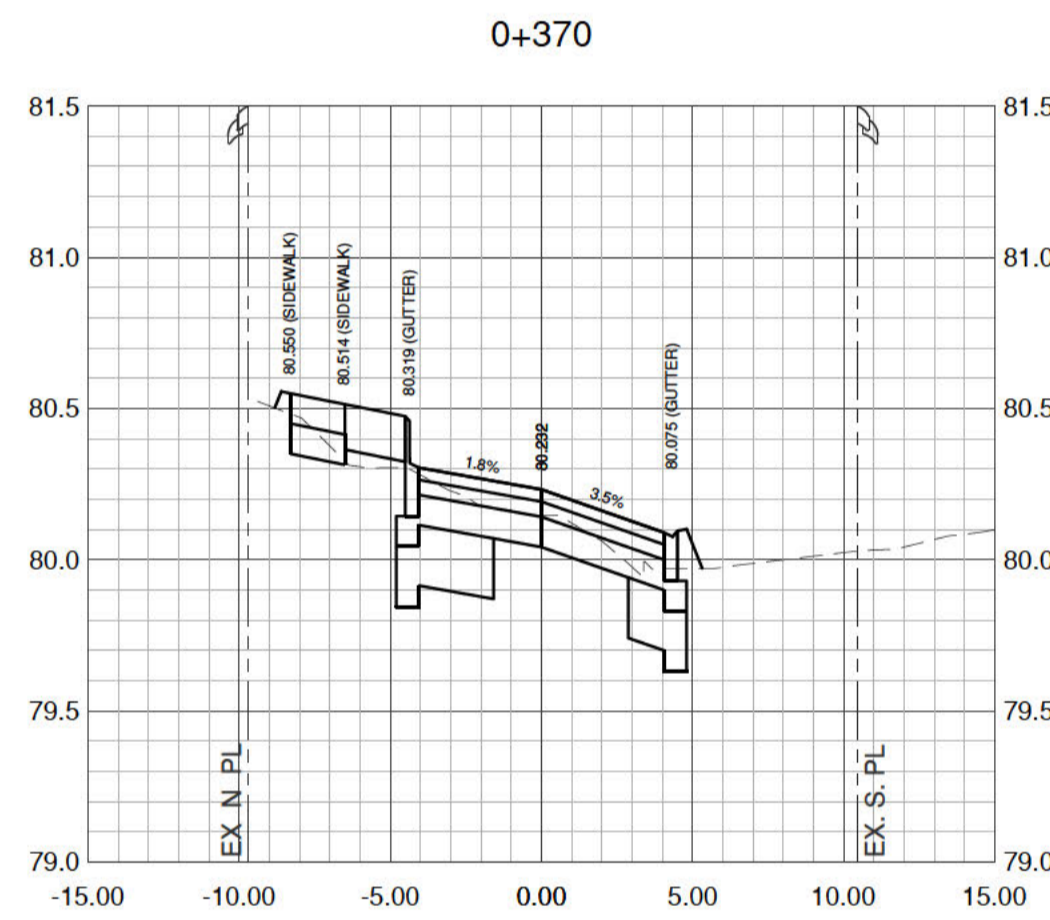
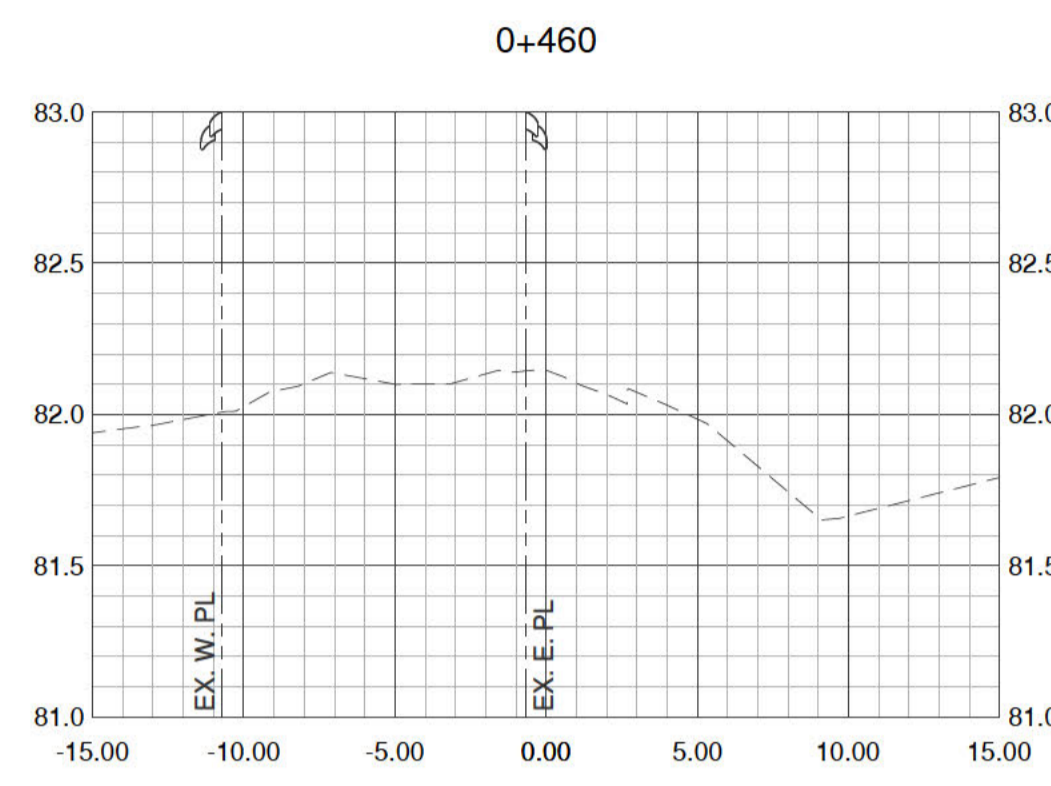
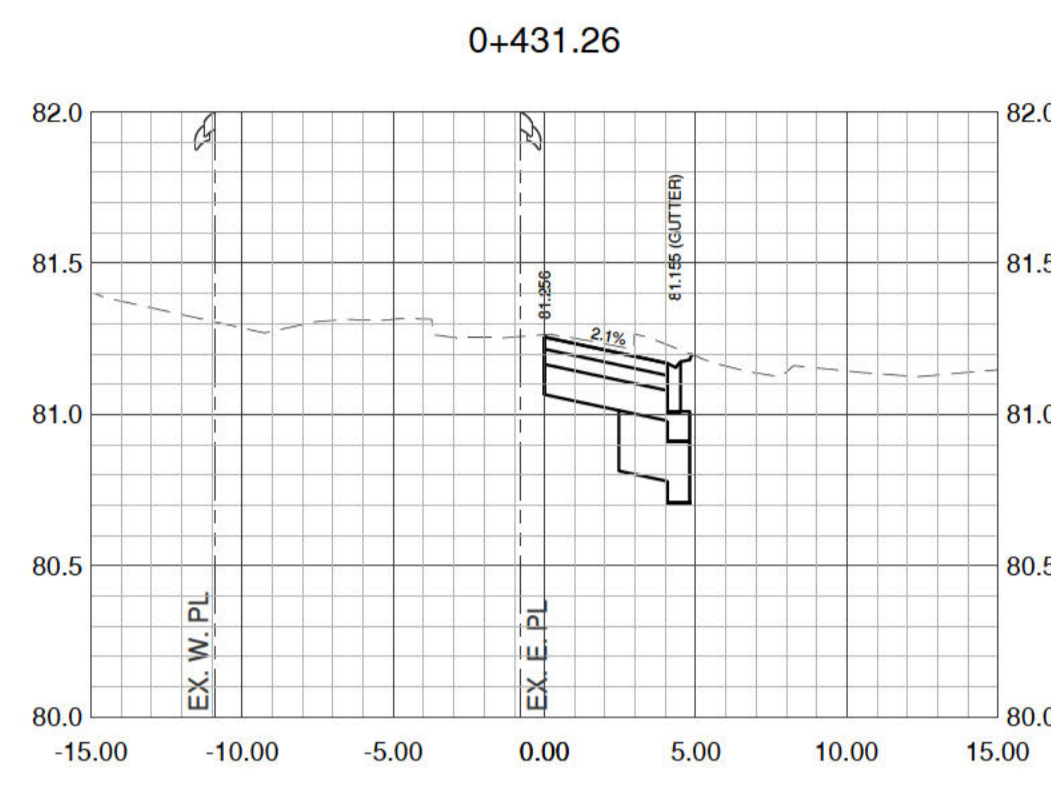
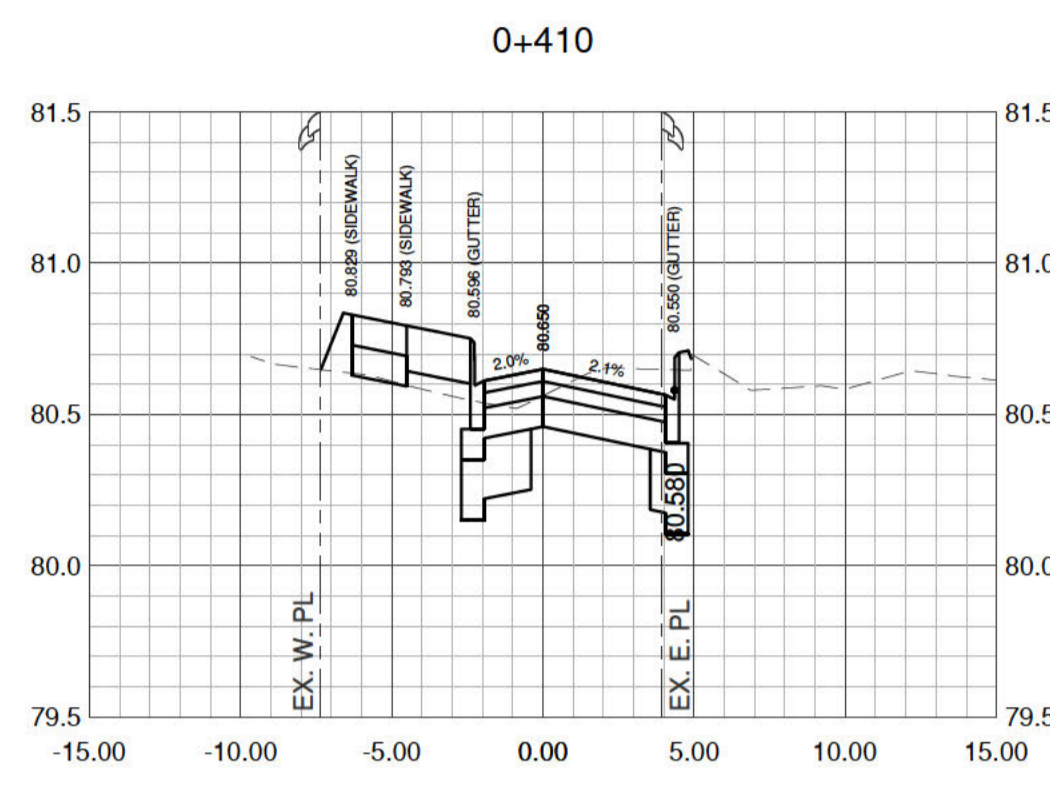
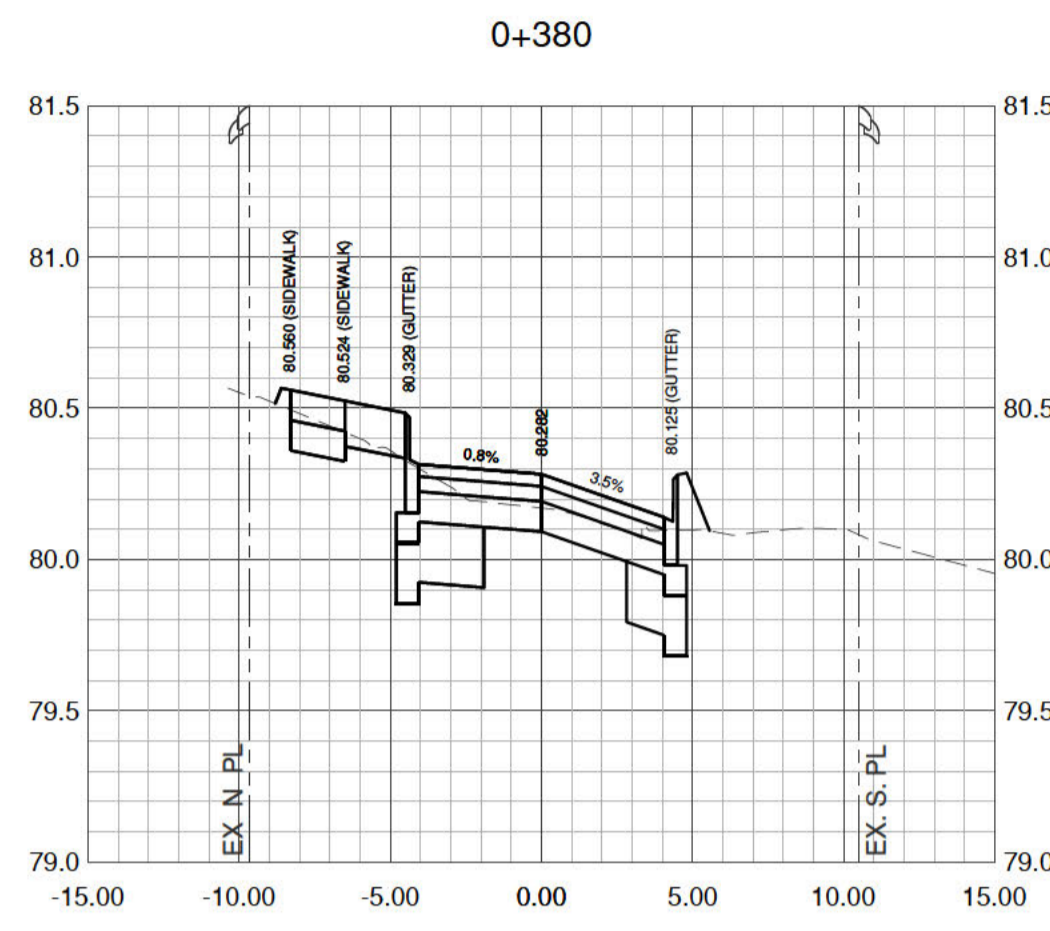
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20-0063-XS1-3

SHEET 12 OF 13
REV. 2

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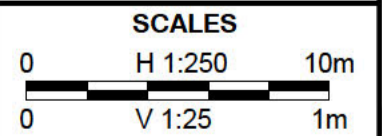


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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
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DATE	2020-01-28
DRAWING No.	20-0063-XS1-4
SHEET	13 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	



R.F. Binnie & Associates Ltd.
CLIENT: City of White Rock
Project: Blackburn Crescent

SUMMARY

Class C Cost Estimate Based on Preliminary Design incl. City Comments

Client Reference #: n/a
Binnie Project #: 20-0063
Date: August 25, 2020
Estimator: NM
Checked By: RA
Estimate Status: Complete

		Estimated Cost	
		Blackburn Cres	
MMCD Division No.	MMCD Division Title	Archibald Rd to High St	
DIV 01	GENERAL REQUIREMENTS	\$	Redacted S. 21
DIV 03	CONCRETE	\$	Redacted S. 21
DIV 26	ELECTRICAL	\$	Redacted S. 21
DIV 27S	COMMUNICATIONS (SUPPLEMENTARY)	\$	Redacted S. 21
DIV 31	EARTHWORK	\$	
DIV 32	ROADS AND SITE IMPROVEMENTS	\$	
DIV 33	UTILITIES	\$	
		Sub-total Construction Cost*:	
		Contingency (Assumed s. 21)	
		GST** (5%):	
		TOTAL CONSTRUCTION COST***	

Notes:

- * Rounded to nearest \$10,000
- ** Calculated over Sub-total Construction Cost, Contingency (and Engineering Fees, if applicable)
- *** Rounded to nearest \$50,000

Notes/Assumptions:

1. Excludes allowances for the non-driveway restorations on private properties.
2. Excludes allowance for streetlighting.
3. Excludes allowance for new watermain construction or vertical relocations.
4. Excludes special allowances for relocating of privately-built walls in City Right of Way.



R.F. Binnie & Associates Ltd.
 CLIENT: City of White Rock
 Project: Blackburn Crescent

BULKED Class C Cost Estimate Based on Preliminary Design incl. City Comments
 Client Reference #: n/a
 Binnie Project #: 20-0063
 Date: August 25, 2020
 Estimator: NM
 Checked By: RA
 Estimate Status: Complete

Blackburn Cres
 Archibald Rd to High St
 Road & Utilities

ITEM	DESCRIPTION	UNIT	UNIT PRICE \$	Quantity	AMOUNT \$
DIV 01	GENERAL REQUIREMENTS				
01 55 00	Traffic Control, Vehicle Access and Parking				
Add SSP 1.5.1	Traffic Control, Vehicle Access and Parking - Blackburn Cres - Archibald Rd to High St	s. 21			Redacted S. 21
01 57 01	Environmental Protection				
1.6.1	Erosion and Sediment Control - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			
DIV 03	CONCRETE				
03 30 20	Concrete Walks, Curbs and Gutters				
1.4.3	Concrete Barrier Curb & Gutter (MMCD C4)	Redacted S. 21			
1.4.3	Concrete Interim Curb (MMCD C6, Style 1)	Redacted S. 21			
Add SSP 1.4.5	Concrete Walk and Ramp (100mm Thick) - To MMCD C1, C8, C9 (Granular Base Paid Under 32 11 23)	Redacted S. 21			
Add SSP 1.4.5	Concrete Walk and Ramp (150mm Thick) - To MMCD C1 (Granular Base Paid Under 32 11 23)	Redacted S. 21			
Add SSP 1.4.6	Concrete Driveway Crossing (150mm Thick) - To MMCD C7 (Granular Base Paid Under 32 11 23)	Redacted S. 21			
Add SSP 1.4.6	Concrete Driveway (150mm Thick) (Granular Base Paid Under 32 11 23)	Redacted S. 21			
Add SSP 1.4.6	Concrete Driveway (Exposed Aggregate, 150mm Thick) (Granular Base Paid Under 32 11 23)	Redacted S. 21			
Add SSP SUP	Regrade Existing Brick Driveway (Includes Removal, Regrading including Sand Base, Reinstatement)	Redacted S. 21			
DIV 26	ELECTRICAL				
26 56 01	Roadway Lighting				
SUP	Conduits for Future Streetlighting (100mm Dia. RPVC, 450mm Depth of Cover, Import Backfill)	Redacted S. 21			
SUP	Service Box (T266 AE Concrete or Approved Equal)	Redacted S. 21			
DIV 27S SUP	COMMUNICATIONS (SUPPLEMENTARY)				
27 05 33S SUP	Conduits and Backboxes for Communications Systems				
Add SSP SUP	Conduits for Future Fibre Optic (50mm Dia. RPVC, 450mm Depth of Cover, Import Backfill)	Redacted S. 21			
Add SSP SUP	Service Box (5686 AE Concrete or Approved Equal)	Redacted S. 21			
DIV 31	EARTHWORK				
31 11 01	Clearing and Grubbing				
1.4.1	Clearing and Grubbing (Including Tree Removal) - Archibald Rd to High St	Redacted S. 21			
31 24 13	Roadway Excavation, Embankment and Compaction				
Add SSP 1.8.4	Mass Excavation and Removal - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			
Add SSP 1.8.5	Common Excavation - Off-site Disposal	Redacted S. 21			
1.8.7	Embankment Fill - Imported Pit Run	Redacted S. 21			
DIV 32	ROADS AND SITE IMPROVEMENTS				
32 01 16.7	Cold Milling				
1.5.1	Full Depth Milling	Redacted S. 21			
32 11 16.1	Granular Sub-Base				
1.4.2	75mm Select Granular Subbase	Redacted S. 21			
32 11 23	Granular Base				
1.4.2	19mm Crushed Granular Base (100mm Thick)	Redacted S. 21			
32 12 13.1	Asphalt Tack Coat				
1.5.1	Asphalt Tack Coat - Emulsified Asphalt	Redacted S. 21			
32 12 16	Hot-Mix Asphalt Concrete Paving				
1.5.1	Asphalt Pavement - Lower Course #2 (50mm Thick)	Redacted S. 21			
1.5.1	Asphalt Pavement - Upper Course #2 (40mm Thick)	Redacted S. 21			
1.5.3	Asphalt Driveway (65mm Thick, UC#2)	Redacted S. 21			
1.5.3	Asphalt Walkway and Ramp (50mm Thick, UC#2)	Redacted S. 21			
1.5.4	Asphalt Extruded Curb (50mm High)	Redacted S. 21			
32 17 23	Painted Pavement Markings				
1.5.3	Permanent Thermoplastic Pavement Markings - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			
1.5.4	Permanent Traffic Control Signs - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			
32 31 13	Chain Link Fences & Gates				
1.5.3	Remove & Reinstall Existing Metal Fence (Property #14523)	Redacted S. 21			
32 91 21	Topsoil and Finish Grading				
1.4.1	Imported Topsoil (150mm Thick)	Redacted S. 21			
32 92 19	Hydraulic Seeding				
1.8.1	Hydraulic Seeding	Redacted S. 21			
32 92 20	Sodding				
1.8.1	Nursery Sod (Without Mesh)	Redacted S. 21			
DIV 33	UTILITIES				
33 01 30.1	CCTV Inspection of Pipelines				
1.6.2	CCTV Inspection of New Storm and Sanitary Mains - Blackburn Cres - Archibald Rd to High St	Redacted S. 21			
33 11 01	Waterworks				
1.8.4	Water Service Connection - Far Side Properties (38mm Dia.)	Redacted S. 21			
33 30 01	Sanitary Sewers				
1.6.1	Sanitary Main (PVC, SDR35, 200mm Dia., 1.5m-2.8m Depths, Imported Backfill)	Redacted S. 21			
1.6.3	Sanitary Service Connections - Near Side Properties (PVC, SDR28, 100mm Dia., All Depths, Imported Backfill) (MMCD S7)	Redacted S. 21			
1.6.4	Sanitary Inspection Chamber (MMCD S9)	Redacted S. 21			
33 40 01	Storm Sewers				
1.6.1	Drainage Pipe (PVC SDR35, 300mm Dia., All Depths, Imported Backfill)	Redacted S. 21			
1.6.3	Drainage Service Connections - Near Side Properties (PVC SDR28, 150mm Dia., All Depths, Imported Backfill) (MMCD S8)	Redacted S. 21			
1.6.4	Drainage Inspection Chamber (MMCD S10)	Redacted S. 21			
1.6.5	Catchbasin Lead (PVC DR35, 200mm Dia., All Depth, Imported Backfill)	Redacted S. 21			
1.6.5	Catchbasin Lead (PVC SDR35, 250mm Dia., All Depth, Imported Backfill)	Redacted S. 21			
1.6.5	Lawn Drain Lead (PVC SDR28, 100mm Dia., All Depth, Imported Backfill)	Redacted S. 21			
1.6.9	Drainage Tie-in to Existing Storm Sewer - MH ED11	Redacted S. 21			
33 44 01	Manholes and Catchbasins				
1.5.1.1	Manhole - Frame, Cover, Lid and Base (1050mm Dia., All Depth, Imported Backfill) (MMCD S1 & S2)	Redacted S. 21			
1.5.1.2	Manhole Riser Section (1050mm Dia.)	Redacted S. 21			
1.5.1.6	Overbuilt Manhole (1050mm Dia.)	Redacted S. 21			
1.5.2	Single Catchbasin (Concrete Top Inlet, 600mm Dia., All Depth, Imported Backfill)	Redacted S. 21			
1.5.2	Double Catchbasin (Concrete Top Inlet, 600mm Dia., All Depth, Imported Backfill) c/w Connection Lead	Redacted S. 21			
1.5.2	Lawn Drain (Concrete, 300mm Dia., All Depth, Native Backfill) (MMCD S12)	Redacted S. 21			

Redacted S. 21

Debbie Johnstone

From: Rosaline Choy
Sent: September 24, 2020 11:18 AM
To: Michael Hill
Cc: Hiep Lo; Dustin Abt; Nazeer Mojaab; Richard Ahrend
Subject: RE: Blackburn road grading

Hi Michael,

Thanks for bringing the impacts of change request to our attention.

Our main concerns is how private property will tie into the sidewalk slopes as we cannot permit slopes greater than 3H:1V slopes. We also consider impacts to operating costs, and lawn basins will become burden.

Thank you,

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Michael Hill <MHill@binnie.com>
Sent: September 24, 2020 11:06 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Nazeer Mojaab <NMojaab@binnie.com>; Richard Ahrend <RAhrend@binnie.com>
Subject: Blackburn road grading

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rosaline,

We have addressed your latest comments, but wanted to bring up one point:

Our initial design minimized construction costs and neighborhood disruption by keeping the road as close to existing grades as possible. There would have been minimal excavation and residents would likely have been able to use one half of the road while the contractor essentially just widened and improved the other half. This design necessitated some lawn basins on the north side, as you had seen. You have requested that we remove the lawn basins and lower the design to meet the existing north ground elevations at property line.

This is completely feasible, we have no problem with your request, but I just wanted to make you aware of some implications:

- 1) The cost will increase by between \$50,000 and \$100,000 due to the increased excavation and removal of road material, even with the savings of removing the lawn basins.

- 2) The road will likely require full closures to through traffic for portions of the construction. Residents would still be able to access their homes, of course.

Please confirm that you are ok with these implications, and we will proceed.

Thanks,



Michael Hill,AScT, CCA

Project Manager, Associate

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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Debbie Johnstone

From: Redacted S. 22
Sent: October 5, 2020 10:27 AM
To: Hiep Lo
Cc: Rosaline Choy; Dustin Abt; Jim Gordon
Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Hiep

Do you have a date when you will hold the information session?

Cheers

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: July 8, 2020 9:52 AM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22

Thank you for the email reply.

We are anticipating a pop up information tent session sometime in September or October.

Thank you again for the email.

Regards

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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Debbie Johnstone

From: Redacted S. 22
Sent: October 5, 2020 3:31 PM
To: Hiep Lo
Cc: Rosaline Choy; Dustin Abt; Jim Gordon
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks Hiep

It would be great if the residents could have a look at the design before it's finalized. You may get some feedback that could be incorporated into the final design.

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Monday, October 5, 2020 2:41:25 PM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22,

I hope all is well.

Thank you for the email, we are still working on the design drawings. We will notify the residents in advance of the information session once we have a time and date selected.

Kind Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: October 5, 2020 10:27 AM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Hiep

Do you have a date when you will hold the information session?

Cheers

877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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From: [Redacted S. 22]
Sent: Wednesday, July 01, 2020 10:55 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Jim
Are you able to send me an electronic copy of the plans for the work on Blackburn?
Cheers

[Redacted S. 22]

From: Redacted S. 22
Sent: May 14, 2020 8:33 AM
To: 'Jim Gordon' <JGordon@whiterockcity.ca>
Cc: 'Dustin Abt' <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Jim
Is the work still planned for this year?
Cheers

[Redacted S. 22]

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: May 11, 2020 2:31 PM
To: [Redacted S. 22]
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi [Redacted S. 22]
Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards
Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock

877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: [Redacted S. 22]
Sent: Monday, May 11, 2020 2:17 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Cres paving & utility work

Debbie Johnstone

From: Jim Gordon
Sent: November 23, 2020 9:20 AM
To: Rosaline Choy; Hiep Lo
Cc: Dustin Abt
Subject: FW: Blackburn crescent rebuild.

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Jim Gordon
Sent: November 23, 2020 9:20 AM
To: Redacted S. 22
Subject: RE: Blackburn crescent rebuild.

Hello Redacted S. 22

Thanks for your email.

As you may know, many projects are delayed as we deal with the challenges presented to us by COVID.

We will make sure to discuss this project with you and the other residents as we get closer to startup next year.

Thanks for contacting me,

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca

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-----Original Message-----

From: **Redacted S. 22**
Sent: November 22, 2020 11:39 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn crescent rebuild.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim. Further to our email contact back in January 2020. I understand progress on street design is ongoing, and we are looking forward to this project startup. I understand a petition is being started by certain people who would be affected by any changes to the street. If and when final street design is completed myself and many others would like to see those plans. Some residents are being fed info regarding loss of their front gardens, therefore causing unnecessary concerns. I do believe that the corner where high street joins Blackburn is an accident waiting to happen, and should be a priority on street widening. No parking signs should be in place, also bushes restricting visibility removed. Please keep me in the loop, as the petitioner is contacting me for information. Thanks **Redacted S. 22**

Redacted S. 22

Debbie Johnstone

From: Dustin Abt
Sent: November 23, 2020 9:30 AM
To: Jim Gordon
Cc: Rosaline Choy; Hiep Lo
Subject: FW: Upgrade to Blackburn Cres.

FYI

The area residents must all want certain things. Good thing we have a good design.

Dustin

From: Dustin Abt
Sent: Monday, November 23, 2020 9:18 AM
To: Redacted S. 22
Subject: RE: Upgrade to Blackburn Cres.

Hello Redacted,

This project is with Engineering Department and I believe there will be a public information session on your street. This will be before the project starts.

I do know the Engineering team has looked at this and have incorporated that corner in design, to open it up and provide a safer experience.

Hope you are doing well, I see you walking all over town! Take care.

Dustin

From: Redacted S. 22
Sent: Monday, November 23, 2020 9:10 AM
To: Dustin Abt <DAbt@whiterockcity.ca>
Subject: Upgrade to Blackburn Cres.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Dustin

I know that you have on the books an upgrade to the storm drain and paving of Blackburn Cres. Is there any plans to improve the corner of High Street and Blackburn Cres. As it is now if you are travelling east on Blackburn the street just turns into High Street you cannot see if there is any traffic or pedestrians on the road coming south on High Street. As it is now cars cut the corner with several near misses.

Regards
Redacted S. 22

Redacted S. 22

Sent from [Mail](#) for Windows 10

Debbie Johnstone

From: Rosaline Choy
Sent: November 27, 2020 2:09 PM
To: Hiep Lo
Cc: Marla Boos; Carlie Gordon; Jim Gordon
Subject: Blackburn Crescent - Project Update - Letter to All Residents
Attachments: RE: Blackburn Crescent- request for consultation; FW: Blackburn cr. Upgrade

Hi Hiep,

Can you please draft a letter advising residents of the following?

Template text below.

Dear Resident:

This letter is to inform you about the progress for [Project name]. [provide brief scope and summary of project progress]

This project's open house was initially scheduled for fall 2020, but because of the Public Health Order for COVID-19, the amended date is spring 2021. The open house date is tentative and dependent on repeals or extensions to the Public Health Order.

The City of White Rock will do everything possible to minimise the inconvenience caused by this project.

If you have any questions regarding this letter, please call the [X] on [X] or email us at [X].

I hope this provides you with sufficient information.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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Debbie Johnstone

From: Dustin Abt
Sent: November 27, 2020 12:24 PM
To: Rosaline Choy
Subject: RE: Blackburn Crescent- request for consultation

How do we explain to residents that we are upgrading our infrastructure and residents don't really have a say on what will be done?

Dustin

-----Original Message-----

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: Friday, November 27, 2020 12:20 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: FW: Blackburn Crescent- request for consultation

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca

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-----Original Message-----

From: **Redacted S. 22**
Sent: November 27, 2020 12:18 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Crescent- request for consultation

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim,

I understand that there are proposed plans for Blackburn Crescent between High Street and Archibald. It is our understanding that the proposed work includes repaving, widening of the street and installation of a sidewalk.

As a property owner in the area, **Redacted S. 22** I would like to view the proposed plans and provide our input before the plans are finalized.

May I request that you forward the plans for the proposed work to me at this email address. Is there a time available when we can discuss by telephone or zoom?

Thank you.

Sincerely,

Redacted S. 22

Sent from my iPhone

Debbie Johnstone

From: Jim Gordon
Sent: November 27, 2020 12:24 PM
To: Rosaline Choy
Cc: Dustin Abt
Subject: FW: Blackburn cr. Upgrade

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca

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-----Original Message-----

From: **Redacted S. 22**
Sent: November 26, 2020 9:06 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn cr. Upgrade

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim, **Redacted S. 22** **Redacted S. 22**.. At the time of planning and construction, I was in contact with your department in regards to disrepair of the street. Specifically, in front of our house there is a **Redacted S. 22** that I drive into every day. At the time of the construction I was looking for solution to my problem and that's when I was told that the street would be upgraded and not to be too concerned about the boulevard.

Can you please advise to the status of this project.

I feel that there is fear mongering in the neighbourhood, with a petition being circulated to voice the displeasure with the street design that they haven't even seen. This petition does not reflect the true picture of the neighbourhood.. We all want our street upgraded and the sooner the better.. As i am sure you understand, that when a neighbour comes around and asks for support its hard to say no.

This petition reminds me of Arbutus corridor where people were trying to take ownership of property that did not belong to them.. Promoters of this petition are doing exactly the same thing..

I am hoping that this petition which is being sent to the mayor and council will not have any impact on this project and that things will proceed as planned.

I trust that this email is confidential!!!

Best regards, Redacted S. 22



Debbie Johnstone

From: Marla Boos
Sent: November 27, 2020 2:42 PM
To: Hiep Lo
Subject: RE: Blackburn Crescent - Project Update - Letter to All Residents
Attachments: Letter to Residents V2.docx

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: November 27, 2020 2:21 PM
To: Marla Boos <MBoos@whiterockcity.ca>
Subject: RE: Blackburn Crescent - Project Update - Letter to All Residents

Hi Marla,

Can you please review the letter?

Thank you

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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From: Rosaline Choy <RChoy@whiterockcity.ca>
Sent: November 27, 2020 2:09 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Marla Boos <MBoos@whiterockcity.ca>; Carlie Gordon <CGordon@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Crescent - Project Update - Letter to All Residents

Hi Hiep,

Can you please draft a letter advising residents of the following?

Template text below.

Dear Resident:

This letter is to inform you about the progress for [Project name]. [provide brief scope and summary of project progress]

This project's open house was initially scheduled for fall 2020, but because of the Public Health Order for COVID-19, the amended date is spring 2021. The open house date is tentative and dependent on repeals or extensions to the Public Health Order.

The City of White Rock will do everything possible to minimise the inconvenience caused by this project.

If you have any questions regarding this letter, please call the [X] on [X] or email us at [X].

I hope this provides you with sufficient information.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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November 27, 2020

Dear Homeowner/Resident:

Re: Project Update-Blackburn Crescent (High Street to Archibald Road) Improvements

This letter is to inform homeowners/residents of the progress of the Blackburn Crescent project between Archibald Road and High Street. This project includes sanitary sewers, storm mains and roadworks that have been identified in need of replacement or upgrades.

Initially scheduled for Fall/Winter 2020, the project's open house has been delayed due to the Public Health Order for COVID-19. The open house has been rescheduled for Spring 2021, however, date is tentative and dependent on repeals or extensions to the Public Health Order.

Should you require further information or have any questions regarding this project, please contact Hiep Lo at the Engineering and Municipal Operations Department at hlo@whiterockcity.ca or 604-541-2181.

I hope this provides you with sufficient information.

Regards,

Rosaline Choy P.Eng
Manager, Engineering
Engineering and Municipal Operations Department
City of White Rock

Engineering and Municipal Operations
P: 604.541.2181 | F: 604.541.2190
877 Keil Street, White Rock BC, Canada V4B 4V6

City of White Rock
15322 Buena Vista Avenue, White Rock BC, Canada V4B 1Y6

WHITE ROCK
My City by the Sea!

www.whiterockcity.ca

Debbie Johnstone

From: Rosaline Choy
Sent: December 3, 2020 12:49 PM
To: Hiep Lo
Subject: RE: RE: Blackburn Cres paving & utility work

Hi Hiep,

Thanks for drafting the response.

There's a grammar error in #3.

#4, we should inform the residents that we will be sharing to information to all residents at the same time at the open house.

#5, Residents can provide input at the open house. We are also working with our IT department to determine if a virtual open house can be held in a format that enables attendees to provide meaningful feedback.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 3, 2020 12:19 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Rosaline, anything to add?

Dear Redacted S. 22

Thank you for sending us your questions and concerns.

Please see my comments and response to your questions in the previous email.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Kind Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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Dear Hiep Lo,

Thank you for your letter dated November 27, 2020 advising that an open house regarding Blackburn Crescent is tentatively planned for the spring of 2021.

1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project? **The purpose of the Information Open House to present the residents of Blackburn the opportunity to review plans and gather feedbacks prior to construction.**
2. Where is it expected that the open house would be held? **The tentative schedule is March 2021**
3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public? **The meeting will be held with resident of Blackburn Crescent only.**
4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form? **Unfortunately we are currently working on the preliminary plans in designing the sewers and are unable to provide it at this time.**
5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans? **The City will be hosting an information open house with residents prior to construction and take in feedback from residents/homeowners.**

Thank you.

Regards, **Redacted S. 22**

Sent from my iPhone

Debbie Johnstone

From: Redacted S. 22
Sent: December 3, 2020 11:47 AM
To: Hiep Lo
Cc: Rosaline Choy
Subject: Blackburn Crescent

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Dear Hiep Lo,

Thank you for your letter dated November 27, 2020 advising that an open house regarding Blackburn Crescent is tentatively planned for the spring of 2021.

1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project?
2. Where is it expected that the open house would be held?
3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public?
4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form?
5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans?

Thank you.

Regards, Redacted S. 22
[Redacted Signature]

Sent from my iPhone

Debbie Johnstone

From: Hiep Lo
Sent: December 3, 2020 3:54 PM
To: [Redacted S. 22]
Rosaline Choy
Subject: RE: Blackburn Cres paving & utility work

Hi [Redacted S. 22]

Thank you for the email, please see my comments in red.

Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: [Redacted S. 22] >
Sent: December 3, 2020 3:06 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

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Hi Hiep,

Thank you kindly for taking the time to reply. May I ask just a few follow-up questions:

1. If a sidewalk is to be placed, on which side of Blackburn will it be placed and how wide would that sidewalk be? **The sidewalk design will most likely be 1.8m wide and placed where the grades are most favourable in terms of cost and sidewalk connectivity.**
2. Is Blackburn to be widened and if so, in which direction will pavement be shifted to accommodate widening of the street? **The road will be design to meet the minimum width required for local roads as outlined in the Transportation Associations of Canada(TAC); the road may or may not be widen.**

3. Are speed bumps currently part of the plan? **Currently there are no suggestion that speed tables are required on Blackburn Crescent.**

Thank you again for taking the time to reply. Your reply is greatly appreciated.

Kind regards, **Redacted S. 22**

Sent from my iPhone

On Dec 3, 2020, at 2:30 PM, Hiep Lo <HLo@whiterockcity.ca> wrote:

Dear **Redacted S. 22**:

Thank you for sending us your questions and concerns. Please see my responses to your email in red below.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Kind regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca

<image002.jpg>

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1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project? **The purpose of the information open house to give residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.**

2. Where is it expected that the open house would be held? **The plan was to hold the information session on Blackburn Crescent in March 2021, however, this will be dependent on the Public Health Order at the time.**
3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public? **The meeting will be for residents of Blackburn Crescent only.**
4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form? **Engineering staff are working on the preliminary sewer design and are unable to provide any plans at this time. The City will be presenting information to all residents at the same time at the open house.**
5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans? **Engineering staff will be working with our IT department to determine if a virtual open house can be held in a format that enables attendees to provide meaningful feedback.**

Debbie Johnstone

From: Redacted S. 22
Sent: December 3, 2020 3:06 PM
To: Hiep Lo
Cc: Rosaline Choy
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Hiep,

Thank you kindly for taking the time to reply. May I ask just a few follow-up questions:

1. If a sidewalk is to be placed, on which side of Blackburn will it be placed and how wide would that sidewalk be?
2. Is Blackburn to be widened and if so, in which direction will pavement be shifted to accommodate widening of the street?
3. Are speed bumps currently part of the plan?

Thank you again for taking the time to reply. Your reply is greatly appreciated.

Kind regards, Redacted S. 22

Sent from my iPhone

On Dec 3, 2020, at 2:30 PM, Hiep Lo <HLo@whiterockcity.ca> wrote:

Dear Redacted S. 22:

Thank you for sending us your questions and concerns. Please see my responses to your email in red below.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed.

Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Kind regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca

<image002.jpg>

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Dear Hiep Lo,

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1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project? **The purpose of the information open house to give residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.**

2. Where is it expected that the open house would be held? **The plan was to hold the information session on Blackburn Crescent in March 2021, however, this will be dependent on the Public Health Order at the time.**

3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public? **The meeting will be for residents of Blackburn Crescent only.**

4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form? **Engineering staff are working on the preliminary sewer design and are unable to provide any plans at this time. The City will be presenting information to all residents at the same time at the open house.**

5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans? **Engineering staff will be working with our IT department to determine if a virtual open house can be held in a format that enables attendees to provide meaningful feedback.**

Debbie Johnstone

From: Marla Boos
Sent: December 3, 2020 2:14 PM
To: Hiep Lo
Subject: RE: Blackburn Cres paving & utility work

I edited a few items....

Dear **Redacted S. 22**:

Thank you for sending us your questions and concerns. Please see my responses to your email in **red** below.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Kind regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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Dear Hiep Lo,

Thank you for your letter dated November 27, 2020 advising that an open house regarding Blackburn Crescent is tentatively planned for the spring of 2021.

1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project? **The purpose of the information open house to give residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.**
2. Where is it expected that the open house would be held? **The plan was to hold the information session on Blackburn Crescent in March 2021, however, this will be dependent on the Public Health Order at the time.**

3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public? **The meeting will be for residents of Blackburn Crescent only.**

4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form? **Staff are working on the preliminary sewer design and are unable to provide any plans at this time. The City will be presenting information to all residents at the same time at the open house.**

5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans? **Staff are working with our IT department to determine if a virtual open house can be held in a format that enables attendees to provide meaningful feedback.**

Debbie Johnstone

From: Rosaline Choy
Sent: December 3, 2020 11:29 AM
To: Redacted S. 22
Cc: iep Lo
Subject: RE: Blackburn Cres paving & utility work

Dear Redacted S. 22

Thank you for sending us your concerns.

The design consultant is aware of the topography of this neighbourhood. All designs take existing site constraints into consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 30, 2020 7:37 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

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Hello Rosaline
Jim's out of office reply notes he is away until Dec 7 and asked that we contact you in his absence.
I look forward to your response.

Regards

Redacted S. 22

From: Redacted S. 22
Sent: November 30, 2020 7:17 AM

To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

Good morning Jim

As you know many residents are anxious to see the repairs to Blackburn completed and many of us are just as anxious to see what is planned. There have been lots of rumours and many are quite concerned about what may or may not happen in front of their properties, and along the street. Unfortunately we have not been provided any details. Originally I was advised that the design would be completed in Sept or Oct and at that point we would be shown the design.

Now I am hearing that the design has been delayed until March or April of next year. Can you confirm if that is the case? If so, what has caused the design to fall so far behind?

I also know that many of the residents along Blackburn Cres, myself included, have asked to see the design before it is finalized and have an opportunity to comment on it.

The continued delay in completing the design and what appears to be unwillingness on the part of the Engineering Departments to consult with the residents has us very concerned.

There are many issues regarding the re-paving of Blackburn and there are many situations along Blackburn that are not best solved by a "one size fits all solution".

I feel it is important that the Engineering Department provide the residents with an opportunity to view the design before it is finalized. This will also allow the Engineering Dept to present to the residents what is planned, explain why things are planned, and get feed back on this sensitive issue.

This is not an unprecedented practise.

I look forward to your response.

Regards

Redacted S. 22

From: **Redacted S. 22**
Sent: Monday, October 5, 2020 3:31:29 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

Thanks Hiep

It would be great if the residents could have a look at the design before it's finalized. You may get some feedback that could be incorporated into the final design.

Regards

s.22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Monday, October 5, 2020 2:41:25 PM
To: **Redacted S. 22**
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi **Redacted S. 22**

I hope all is well.

Thank you for the email, we are still working on the design drawings. We will notify the residents in advance of the information session once we have a time and date selected.

Kind Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

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From Redacted S. 22

Sent: October 5, 2020 10:27 AM

To: Hiep Lo <HLo@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

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Hello Hiep

Do you have a date when you will hold the information session?

Cheers

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>

Sent: July 8, 2020 9:52 AM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22

Thank you for the email reply.

We are anticipating a pop up information tent session sometime in September or October.

Thank you again for the email.

Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: [Redacted S. 22]
Sent: July 7, 2020 6:49 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

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Thanks Hiep. Do you have an anticipated date when the info tent will be held?

Regards

[Redacted S. 22]

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Tuesday, July 7, 2020 3:35:12 PM
To: [Redacted S. 22]
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

Hello [Redacted S. 22]

I hope all is well and your staying healthy and safe.

I'm responding to you on behalf of the Director of Engineering & Municipal Operations Jim Gordon.

We are still in preliminary design stage and unfortunately we cannot disclose plans that are in draft form.

Once we have a final design, the plans will be available for viewing. We plan on doing a pop up information tent on Blackburn Cres so all the residents can view the plans. Letters will be mailed out with multiple dates so everyone has a chance to view.

I will keep you posted and please feel free to contact me if you have questions or concerns.

Thank you for your understanding.

Kind regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: Wednesday, July 01, 2020 10:55 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

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Hello Jim

Are you able to send me an electronic copy of the plans for the work on Blackburn?

Cheers

Redacted S. 22

From: Redacted S. 22
Sent: May 14, 2020 8:33 AM
To: 'Jim Gordon' <JGordon@whiterockcity.ca>
Cc: 'Dustin Abt' <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Jim

Is the work still planned for this year?

Cheers

Redacted S. 22

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: May 11, 2020 2:31 PM
To: Redacted S. 22

Cc: Dustin Abt <DAbt@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22:

Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: Monday, May 11, 2020 2:17 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Cres paving & utility work

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Hi Jim

Can you confirm if this work is still planned for this year? If so, do you have a timeline?

Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.

Cheers

Redacted S. 22

Debbie Johnstone

From: Redacted S. 22
Sent:
To: Rosaline Choy
Cc: Jim Gordon; Hiep Lo
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Rosaline and thank you for your reply.

Many of the concerns regarding the design and the process have not been addressed in your letter. I would appreciate your response to my questions and concerns:

1. I understand there are plans to install a sidewalk on the north side of the street. If so, where will the south edge of the sidewalk be located relative to the existing curb line on the north side?
2. Will the roadway be widened as a result of the sidewalk?
3. Will the roadway be narrower because of the sidewalk?
4. Where will the south curb line be located relative to the existing south curb location?
5. Why is a sidewalk is being contemplated. What is the rationale behind adding a sidewalk?
6. You advised that "an information open house with residents prior to construction" will be held.
 - a) Does this mean the residents will have an opportunity to view the plans "before" they are finalized?
 - b) Will the residents be given an opportunity to provide feedback that will be considered by the City and suggestions/comments taken into consideration in the design, with changes made if necessary?
 - c) Or is it the City's intention to finalize design and then simply inform the residents what the City plans to do?

Thank you for your time and I look forward to your response.

Best regards

Redacted S. 22

From: Rosaline Choy <RChoy@whiterockcity.ca>
Sent: Thursday, December 3, 2020 11:28:32 AM
To: Redacted S. 22
Cc: Jim Gordon <JGordon@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work
Dear Redacted S. 22,

Thank you for sending us your concerns.

The design consultant is aware of the topography of this neighbourhood. All designs take existing site constraints into consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 30, 2020 7:37 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

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Hello Rosaline
Jim's out of office reply notes he is away until Dec 7 and asked that we contact you in his absence.
I look forward to your response.

Regards

Redacted S. 22

From: Redacted S. 22
Sent: November 30, 2020 7:17 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

Good morning Jim

As you know many residents are anxious to see the repairs to Blackburn completed and many of us are just as anxious to see what is planned. There have been lots of rumours and many are quite concerned about what may or may not happen in front of their properties, and along the street. Unfortunately we have not been provided any details. Originally I was advised that the design would be completed in Sept or Oct and at that point we would be shown the design.

Now I am hearing that the design has been delayed until March or April of next year. Can you confirm if that is the case? If so, what has caused the design to fall so far behind?

I also know that many of the residents along Blackburn Cres, myself included, have asked to see the design before it is finalized and have an opportunity to comment on it.

The continued delay in completing the design and what appears to be unwillingness on the part of the Engineering Departments to consult with the residents has us very concerned.

There are many issues regarding the re-paving of Blackburn and there are many situations along Blackburn that are not best solved by a "one size fits all solution".

I feel it is important that the Engineering Department provide the residents with an opportunity to view the design before it is finalized. This will also allow the Engineering Dept to present to the residents what is planned, explain why things are planned, and get feedback on this sensitive issue.

This is not an unprecedented practise.

I look forward to your response.

Regards

Redacted S. 22

From: Redacted S. 22
Sent: Monday, October 5, 2020 3:31:29 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: Re: Blackburn Cres paving & utility work

Thanks Hiep

It would be great if the residents could have a look at the design before it's finalized. You may get some feedback that could be incorporated into the final design.

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Monday, October 5, 2020 2:41:25 PM
To: **Redacted S. 22**
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi **Redacted S. 22**

I hope all is well.

Thank you for the email, we are still working on the design drawings. We will notify the residents in advance of the information session once we have a time and date selected.

Kind Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: **Redacted S. 22**
Sent: October 5, 2020 10:27 AM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Hiep

Do you have a date when you will hold the information session?

Cheers

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: July 8, 2020 9:52 AM
To: **Redacted S. 22**
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi **Redacted S. 22**

Thank you for the email reply.

We are anticipating a pop up information tent session sometime in September or October.

Thank you again for the email.

Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: July 7, 2020 6:49 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

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Thanks Hiep. Do you have an anticipated date when the info tent will be held?

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Tuesday, July 7, 2020 3:35:12 PM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

Hello

I hope all is well and your staying healthy and safe.

I'm responding to you on behalf of the Director of Engineering & Municipal Operations Jim Gordon.

We are still in preliminary design stage and unfortunately we cannot disclose plans that are in draft form.

Once we have a final design, the plans will be available for viewing. We plan on doing a pop up information tent on Blackburn Cres so all the residents can view the plans. Letters will be mailed out with multiple dates so everyone has a chance to view.

I will keep you posted and please feel free to contact me if you have questions or concerns.

Thank you for your understanding.

Kind regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: Wednesday, July 01, 2020 10:55 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

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Hello Jim

Are you able to send me an electronic copy of the plans for the work on Blackburn?

Cheers

Redacted S. 22

From: Redacted S. 22
Sent: May 14, 2020 8:33 AM
To: 'Jim Gordon' <JGordon@whiterockcity.ca>
Cc: 'Dustin Abt' <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work
Hi Jim
Is the work still planned for this year?
Cheers
Redacted S. 22

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: May 11, 2020 2:31 PM
To: Redacted S. 22
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work
Hi Redacted S. 22

Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards
Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: Monday, May 11, 2020 2:17 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim
Can you confirm if this work is still planned for this year? If so, do you have a timeline?
Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.
Cheers
Redacted S. 22

Debbie Johnstone

From: Redacted S. 22
Sent: December 3, 2020 4:10 PM
To: Hiep Lo
Cc: Rosaline Choy
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Hiep, Thank you for your reply.

Redacted S. 22

Sent from my iPhone

On Dec 3, 2020, at 3:54 PM, Hiep Lo <HLo@whiterockcity.ca> wrote:

Hi Redacted S. 22

Thank you for the email, please see my comments in red.

Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca

<image001.jpg>

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From: Redacted S. 22
Sent: December 3, 2020 3:06 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Hiep,

Thank you kindly for taking the time to reply. May I ask just a few follow-up questions:

1. If a sidewalk is to be placed, on which side of Blackburn will it be placed and how wide would that sidewalk be? **The sidewalk design will most likely be 1.8m wide and placed where the grades are most favourable in terms of cost and sidewalk connectivity.**
2. Is Blackburn to be widened and if so, in which direction will pavement be shifted to accommodate widening of the street? **The road will be design to meet the minimum width required for local roads as outlined in the Transportation Associations of Canada(TAC); the road may or may not be widen.**
3. Are speed bumps currently part of the plan? **Currently there are no suggestion that speed tables are required on Blackburn Crescent.**

Thank you again for taking the time to reply. Your reply is greatly appreciated.

Kind regards, Redacted S. 22

On Dec 3, 2020, at 2:30 PM, Hiep Lo <HLo@whiterockcity.ca> wrote:

Dear **Redacted S. 22**:

Thank you for sending us your questions and concerns. Please see my responses to your email in red below.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session. Thank you for taking the time to write to the City about this project.

Kind regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca

<image002.jpg>

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Dear Hiep Lo,

Thank you for your letter dated November 27, 2020 advising that an open house regarding Blackburn Crescent is tentatively planned for the spring of 2021.

1. May I inquire regarding the purpose of the open house? Specifically, is this open house intended to be a public consultation prior to the finalizing of the plans by the engineering department? Or, is the open house intended to announce finalized plans and timeline for the project? **The purpose of the information open house to give residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.**

2. Where is it expected that the open house would be held? **The plan was to hold the information session on Blackburn Crescent in March 2021, however, this will be dependent on the Public Health Order at the time.**

3. Will the open house be a meeting or consultation with the directly affected residents of Blackburn Crescent only or is will it be open to the general public? **The meeting will be for residents of Blackburn Crescent only.**

4. I understand that at this point there are at least preliminary plans for the proposed work that is planned. Can you please forward these plans via email in PDF form? **Engineering staff are working on the preliminary sewer design and are unable to provide any plans at this time. The City will be presenting information to all residents at the same time at the open house.**

5. Are there any plans to hold a zoom meeting or consultation process so that the affected residents are able to provide input now prior to the finalization of plans? **Engineering staff will be working with our IT department to determine if a virtual open house can be held in a format that enables attendees to provide meaningful feedback.**

Debbie Johnstone

From: Rosaline Choy
Sent: December 3, 2020 11:58 AM
To: Redacted S. 22
Cc: Jim Gordon; Hiep Lo
Subject: RE: Planning for Upgrades to Blackburn Cres

Dear Redacted S. 22,

Thank you for your email and sharing your concerns.

The road classification for Blackburn Crescent is a local road and when the project is complete, the roadway will meet Transportation Association of Canada standards for local road. Project costs are also very important to the City and is a consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Best regards,

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 29, 2020 1:08 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Fwd: Planning for Upgrades to Blackburn Cres

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----- Forwarded message -----

From: Redacted S. 22
Date: Sun, Nov 29, 2020 at 1:04 PM
Subject: Planning for Upgrades to Blackburn Cres
To: <jgordon@whiterockcity.ca>
Cc: Redacted S. 22

Attention: Mr. Jim Gordon, Director of Engineering

Dear Mr. Gordon,

Redacted S. 22 are homeowners on Blackburn Cres in White Rock. It has come to our attention that the City is planning to complete the much needed drainage upgrades and resurfacing of Blackburn Cres in the near future.

Blackburn Cres is a **quiet "Local Residential"** street and it is very important to us that any upgrades are cost effective, and **do not encourage an increase in traffic volume or speed**. We do not support excessive widening or the installation of sidewalks as both could potentially transform Blackburn Cres from a "quiet Residential Street" to an "Artery".

Mr Gordon, could you please provide the draft plans (before they are final) as well as information on the consultation process as soon as possible?

We have made a considerable investment in our home and we are eager to participate in a fulsome consultation process in a constructive way, and prior to any final design decision.

We appreciate your timely response to our request and I look forward to meeting you soon.

Redacted S. 22
[Redacted signature block]

From: [Rosaline Choy](#)
To: [Hiep Lo](#)
Subject: FW: Planning for Upgrades to Blackburn Cres
Date: December 3, 2020 2:36:52 PM
Attachments: [image001.jpg](#)

Hi Hiep,

Can you please respond to the resident?

No need to answer every question. Please inform them that the information will be available at the open house.

Rosaline Choy, P.Eng., MBA, LEED Green Associate

Manager of Engineering, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 3, 2020 2:12 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Re: Planning for Upgrades to Blackburn Cres

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Rosaline,

Thank-you for your reply, unfortunately you have not responded to my request to view the "draft" designs prior to them being finalized. Since I have no knowledge or access to the Transportation Association of Canada Standards please respond to these specific questions;

1. What is the designed/proposed total road width?
2. How does the road width proposed compare to the existing road width?
3. Specific to my property where is the road location?
4. Does the proposal include a curb and gutter? If so, is it concrete or pavement and what is the height of the curb?
- 5 Does the proposed design include a sidewalk and if so on which side of the road?
6. What type of signage, road painting is planned?
7. Is there an allowance for parking? Will parking be permitted on both sides?
8. Does the design include any installation of traffic calming measures?
9. What is the location of storm drains and planned direction of water flow to drains?

Best Regards,

Redacted S. 22

On Thu, Dec 3, 2020 at 11:57 AM Rosaline Choy <RChoy@whiterockcity.ca> wrote:

Dear Redacted S. 22,

Thank you for your email and sharing your concerns.

The road classification for Blackburn Crescent is a local road and when the project is complete, the

roadway will meet Transportation Association of Canada standards for local road. Project costs are also very important to the City and is a consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Best regards,

Rosaline Choy, P.Eng., MBA, LEED Green Associate

Manager of Engineering, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 29, 2020 1:08 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Fwd: Planning for Upgrades to Blackburn Cres

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----- Forwarded message -----

From: Redacted S. 22
Date: Sun, Nov 29, 2020 at 1:04 PM
Subject: Planning for Upgrades to Blackburn Cres
To: <jgordon@whiterockcity.ca>
Cc: Redacted S. 22

Attention: Mr. Jim Gordon, Director of Engineering

Dear Mr. Gordon,

Redacted S. 22 are homeowners on Blackburn Cres in White Rock. It has come to our attention that the City is planning to complete the much needed drainage upgrades and resurfacing of Blackburn Cres in the near future.

Blackburn Cres is a **quiet "Local Residential"** street and it is very important to us that any upgrades are cost effective, and **do not encourage an increase in traffic volume or speed**. We do not support excessive widening or the installation of sidewalks as both could potentially transform Blackburn Cres from a "quiet Residential Street" to an "Artery".

Mr Gordon, could you please provide the draft plans (before they are final) as well as information on the consultation process as soon as possible?

We have made a considerable investment in our home and we are eager to participate in a fulsome consultation process in a constructive way, and prior to any final design decision.

We appreciate your timely response to our request and I look forward to meeting you soon.

Redacted S. 22

Redacted S. 22

[Redacted]

Debbie Johnstone

From: Rosaline Choy
Sent: December 4, 2020 8:44 AM
To: Hiep Lo
Subject: FW: Blackburn Cres paving & utility work

Hi Hiep,

Can you please respond to the resident's email?

Same as before, no need to answer every single question as most of the information will be at the open house.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 3, 2020 6:00 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Cc: Jim Gordon <JGordon@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Rosaline and thank you for your reply.

Many of the concerns regarding the design and the process have not been addressed in your letter. I would appreciate your response to my questions and concerns:

1. I understand there are plans to install a sidewalk on the north side of the street. If so, where will the south edge of the sidewalk be located relative to the existing curb line on the north side?
2. Will the roadway be widened as a result of the sidewalk?
3. Will the roadway be narrower because of the sidewalk?
4. Where will the south curb line be located relative to the existing south curb location?
5. Why is a sidewalk being contemplated. What is the rationale behind adding a sidewalk?
6. You advised that "an information open house with residents prior to construction" will be held.
 - a) Does this mean the residents will have an opportunity to view the plans "before" they are finalized?
 - b) Will the residents be given an opportunity to provide feedback that will be considered by the City and suggestions/comments taken into consideration in the design, with changes made if necessary?
 - c) Or is it the City's intention to finalize design and then simply inform the residents what the City plans to do?

Thank you for your time and I look forward to your response.

Best regards

Redacted S. 22

From: Rosaline Choy <RChoy@whiterockcity.ca>
Sent: Thursday, December 3, 2020 11:28:32 AM
To: Redacted S. 22
Cc: Jim Gordon <JGordon@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Dear Redacted S. 22

Thank you for sending us your concerns.

The design consultant is aware of the topography of this neighbourhood. All designs take existing site constraints into consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 30, 2020 7:37 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: FW: Blackburn Cres paving & utility work

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Hello Rosaline
Jim's out of office reply notes he is away until Dec 7 and asked that we contact you in his absence.
I look forward to your response.

Regards

Redacted S. 22

From: Redacted S. 22 >
Sent: November 30, 2020 7:17 AM

To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

Good morning Jim

As you know many residents are anxious to see the repairs to Blackburn completed and many of us are just as anxious to see what is planned. There have been lots of rumours and many are quite concerned about what may or may not happen in front of their properties, and along the street. Unfortunately we have not been provided any details. Originally I was advised that the design would be completed in Sept or Oct and at that point we would be shown the design.

Now I am hearing that the design has been delayed until March or April of next year. Can you confirm if that is the case? If so, what has caused the design to fall so far behind?

I also know that many of the residents along Blackburn Cres, myself included, have asked to see the design before it is finalized and have an opportunity to comment on it.

The continued delay in completing the design and what appears to be unwillingness on the part of the Engineering Departments to consult with the residents has us very concerned.

There are many issues regarding the re-paving of Blackburn and there are many situations along Blackburn that are not best solved by a "one size fits all solution".

I feel it is important that the Engineering Department provide the residents with an opportunity to view the design before it is finalized. This will also allow the Engineering Dept to present to the residents what is planned, explain why things are planned, and get feed back on this sensitive issue.

This is not an unprecedented practise.

I look forward to your response.

Regards

Redacted S. 22

From: **Redacted S. 22**
Sent: Monday, October 5, 2020 3:31:29 PM
To: Hiep Lo <HLo@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Blackburn Cres paving & utility work

Thanks Hiep

It would be great if the residents could have a look at the design before it's finalized. You may get some feedback that could be incorporated into the final design.

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: Monday, October 5, 2020 2:41:25 PM
To: **Redacted S. 22**
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

H **Redacted S. 22**

I hope all is well.

Thank you for the email, we are still working on the design drawings. We will notify the residents in advance of the information session once we have a time and date selected.

Kind Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22

Sent: October 5, 2020 10:27 AM

To: Hiep Lo <HLo@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Hiep

Do you have a date when you will hold the information session?

Cheers

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>

Sent: July 8, 2020 9:52 AM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

Hi

Thank you for the email reply.

We are anticipating a pop up information tent session sometime in September or October.

Thank you again for the email.

Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22

Sent: July 7, 2020 6:49 PM

To: Hiep Lo <HLo@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: Re: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks Hiep. Do you have an anticipated date when the info tent will be held?

Regards

Redacted S. 22

From: Hiep Lo <HLo@whiterockcity.ca>

Sent: Tuesday, July 7, 2020 3:35:12 PM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Dustin Abt <DAbt@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: FW: Blackburn Cres paving & utility work

Hello Redacted S. 22

I hope all is well and your staying healthy and safe.

I'm responding to you on behalf of the Director of Engineering & Municipal Operations Jim Gordon.

We are still in preliminary design stage and unfortunately we cannot disclose plans that are in draft form.

Once we have a final design, the plans will be available for viewing. We plan on doing a pop up information tent on Blackburn Cres so all the residents can view the plans. Letters will be mailed out with multiple dates so everyone has a chance to view.

I will keep you posted and please feel free to contact me if you have questions or concerns.

Thank you for your understanding.

Kind regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: [Redacted S. 22]
Sent: Wednesday, July 01, 2020 10:55 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Dustin Abt <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Jim

Are you able to send me an electronic copy of the plans for the work on Blackburn?

Cheers

[Redacted S. 22]

From: [Redacted S. 22]
Sent: May 14, 2020 8:33 AM
To: 'Jim Gordon' <JGordon@whiterockcity.ca>
Cc: 'Dustin Abt' <DAbt@whiterockcity.ca>
Subject: RE: Blackburn Cres paving & utility work

Hi Jim

Is the work still planned for this year?

Cheers

[Redacted S. 22]

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: May 11, 2020 2:31 PM
To: [Redacted S. 22]

Cc: Dustin Abt <DAbt@whiterockcity.ca>

Subject: RE: Blackburn Cres paving & utility work

Hi Redacted S. 22

Dustin will contact you to confirm the schedule. I will see if we have an electronic version of the plans that we can send to you.

Regards

Jim

Jim Gordon P.Eng.

Director of Engineering and Municipal Operations,

City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22

Sent: Monday, May 11, 2020 2:17 PM

To: Jim Gordon <JGordon@whiterockcity.ca>

Subject: Blackburn Cres paving & utility work

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim

Can you confirm if this work is still planned for this year? If so, do you have a timeline?

Also, is it possible to have a look at the plans? Some of the neighbours and myself are curious what is going to happen.

Cheers

Redacted S. 22

Debbie Johnstone

From: Redacted S. 22
Sent: December 4, 2020 9:16 AM
To: Hiep Lo
Subject: Blackburn Crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Hiep

Thank you for your letter of Nov.27 regarding the work to be done on Blackburn Crescent. My problem is I don't understand the process that this work will follow. The Engineering Department has not acknowledged if the residents will have any say as to what the street will look like after it is finished.

My biggest concern is we will end up with one of White Rock specials, for example, the streets off Oxford, which have a 30-35 foot strip of asphalt down the middle of the street with asphalt curbs on each side so people can drive over the curbs to park their vehicles on the parking pads they have installed on the grass boulevards.

I am having flash backs to 2013 when the Engineering Department installed a curb that directed water down my driveway when I asked why I was not consulted before it was installed I was told by Paul Slack of White Rock Engineering that they could do whatever they wanted on the City streets and the residents did not have a say, (in his defense this was said in the middle of a heated argument).

Now back to the problem at hand:

I understand that the design is almost finished. Can the design be changed after it is finished?

What is the procedure after this, is the project then listed on the five year Capital Works Budget and presented to council to be approved?

There has been a dollar amount included for work on this street for the last five years that I know about and it has always ended up used on some other project, at the discretion of the Engineering Department.

If the Engineering Department decides to proceed Is it at this time that Tenders are called for this project?

Is there a dollar amount that the Engineering Department can approve to proceed with the work or does the Tender amounts have to go back to Council for approval?

Regards,

Redacted S. 22

Sent from [Mail](#) for Windows 10

Debbie Johnstone

From: Hiep Lo
Sent: December 4, 2020 9:26 AM
To: Marla Boos
Subject: FW: Planning for Upgrades to Blackburn Cres

From: Hiep Lo
Sent: December 4, 2020 9:26 AM
To: Redacted S. 22
Cc: Rosaline Choy (RChoy@whiterockcity.ca) <RChoy@whiterockcity.ca>
Subject: RE: Planning for Upgrades to Blackburn Cres

Dear Redacted S. 22,

Thank you for your email, I'm responding to you on behalf of my manager Rosaline Choy as I am part of the design review team.

The purpose of the information open house is to provide residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.

Engineering staff are working on the preliminary sewer design and are unable to provide any plans at this time. Please see my limited response to your questions as we are still in the preliminary design phase.

Thank you again for the email and we look forward to engaging with you in the near future.

Regards

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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From: Redacted S. 22
Sent: December 3, 2020 2:12 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Re: Planning for Upgrades to Blackburn Cres

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Rosaline,

Thank-you for your reply, unfortunately you have not responded to my request to view the "draft" designs prior to them being finalized. Since I have no knowledge or access to the Transportation Association of Canada Standards please respond to these specific questions;

1. What is the designed/proposed total road width? **To be determined and still under review.**
2. How does the road width proposed compare to the existing road width? **To be determined and still under review.**
3. Specific to my property where is the road location? **To be determined and still under review.**
4. Does the proposal include a curb and gutter? If so, is it concrete or pavement and what is the height of the curb? **To be determined and still under review.**
5. Does the proposed design include a sidewalk and if so on which side of the road? **The sidewalk design will most likely be 1.8m wide and placed where the grades are most favourable in terms of cost and sidewalk connectivity.**
6. What type of signage, road painting is planned? **Local roads typically do not need road painting. Depending on width of the road; signage are placed where parking is permitted or prohibited.**
7. Is there an allowance for parking? Will parking be permitted on both sides? **To be determined and still under review.**
8. Does the design include any installation of traffic calming measures? **To be determined still under review, however there is no indication traffic calming is required.**
9. What is the location of storm drains and planned direction of water flow to drains? **To be determined and still under review.**

Best Regards,

Redacted S. 22

On Thu, Dec 3, 2020 at 11:57 AM Rosaline Choy <RChoy@whiterockcity.ca> wrote:

Dear **Redacted S. 22**,

Thank you for your email and sharing your concerns.

The road classification for Blackburn Crescent is a local road and when the project is complete, the roadway will meet Transportation Association of Canada standards for local road. Project costs are also very important to the City and is a consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Best regards,

Rosaline Choy, P.Eng., MBA, LEED Green Associate

Manager of Engineering, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: November 29, 2020 1:08 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Fwd: Planning for Upgrades to Blackburn Cres

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----- Forwarded message -----
From: Redacted S. 22
Date: Sun, Nov 29, 2020 at 1:04 PM
Subject: Planning for Upgrades to Blackburn Cres
To: <jgordon@whiterockcity.ca>
Cc: Redacted S. 22

Attention: Mr. Jim Gordon, Director of Engineering

Dear Mr. Gordon,

Redacted S. 22 are homeowners on Blackburn Cres in White Rock. It has come to our attention that the City is planning to complete the much needed drainage upgrades and resurfacing of Blackburn Cres in the near future.

Blackburn Cres is a **quiet "Local Residential"** street and it is very important to us that any upgrades are cost effective, and **do not encourage an increase in traffic volume or speed**. We do not support excessive widening or the installation of sidewalks as both could potentially transform Blackburn Cres from a "quiet Residential Street" to an "Artery".

Mr Gordon, could you please provide the draft plans (before they are final) as well as information on the consultation process as soon as possible?

We have made a considerable investment in our home and we are eager to participate in a fulsome consultation process in a constructive way, and prior to any final design decision.

We appreciate your timely response to our request and I look forward to meeting you soon.

Redacted S. 22

[Redacted]

[Redacted]

Debbie Johnstone

From: Chris Zota
Sent: December 4, 2020 12:14 PM
To: Hiep Lo; Alan Cheung
Subject: RE: Open House Sessions Online

Hi Hiep,

We can certainly help you with this and I recommend you put in a helpdesk ticket.

You can do this using the Teams Live Event feature. Planning has done this successfully a few times, and this is what G uses for his town hall meetings, except that it is not open to the public. People can submit questions, and the meeting organizer can selectively publish content.

My advice is to run through at least one or two mock meetings prior to the actual event.

[@Alan Cheung](#) please send him the link to the documentation on the Wave.

Cheers,
Chris

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 3, 2020 2:00 PM
To: Chris Zota <CZota@whiterockcity.ca>
Subject: Open House Sessions Online

Hi Chris,

I hope all is well, we are planning an Open House in the new year (March) regarding a project.

If at that time the orders from Health Canada/BC prohibited gathering we want to have a back up plan to have an online open house.

We want to ensure we have the authority to speak , present and enable/disable comments and take questions and provide feedback

Thoughts on how to do this?

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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Debbie Johnstone

From: Redacted S. 22
Sent: December 4, 2020 9:55 AM
To: Hiep Lo
Cc: Rosaline Choy
Subject: Re: Planning for Upgrades to Blackburn Cres
Attachments: image001.jpg; image002.jpg

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Thank you for your reply.

Please note:

1. We would like the opportunity to have input to the design **before it is final.**
2. We do not feel that a sidewalk is required and a sidewalk would be inconsistent with other low traffic residential streets in Whiterock. **We are opposed to construction of a sidewalk on Blackburn Cres.**

We look forward to hearing more and having the opportunity to have constructive input before design and construction plans are completed.

Redacted S. 22

On Fri, Dec 4, 2020, 9:25 AM Hiep Lo, <HLo@whiterockcity.ca> wrote:

Dear Redacted S. 22

Thank you for your email, I'm responding to you on behalf of my manager Rosaline Choy as I am part of the design review team.

The purpose of the information open house is to provide residents of Blackburn Crescent an opportunity to review plans and provide feedback prior to construction.

Engineering staff are working on the preliminary sewer design and are unable to provide any plans at this time. Please see my limited response to your questions as we are still in the preliminary design phase.

Thank you again for the email and we look forward to engaging with you in the near future.

Regards

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca

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From: Redacted S. 22
Sent: December 3, 2020 2:12 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Re: Planning for Upgrades to Blackburn Cres

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Rosaline,

Thank-you for your reply, unfortunately you have not responded to my request to view the "draft" designs prior to them being finalized. Since I have no knowledge or access to the Transportation Association of Canada Standards please respond to these specific questions;

1. What is the designed/proposed total road width? **To be determined and still under review.**
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9. What is the location of storm drains and planned direction of water flow to drains? **To be determined and still under review.**

Best Regards,

Redacted S. 22

On Thu, Dec 3, 2020 at 11:57 AM Rosaline Choy <RChoy@whiterockcity.ca> wrote:

Dear **Redacted S. 22**

Thank you for your email and sharing your concerns.

The road classification for Blackburn Crescent is a local road and when the project is complete, the roadway will meet Transportation Association of Canada standards for local road. Project costs are also very important to the City and is a consideration.

The City will be hosting an information open house with residents prior to construction. Due to the Public Health Order for COVID-19, events are postponed until the Public Health Order is repealed. Construction will not begin without an information session.

Thank you for taking the time to write to the City about this project.

Best regards,

Rosaline Choy, P.Eng., MBA, LEED Green Associate

Manager of Engineering, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2188 | www.whiterockcity.ca

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From: Redacted S. 22
Sent: November 29, 2020 1:08 PM
To: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Fwd: Planning for Upgrades to Blackburn Cres

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----- Forwarded message -----
From: Redacted S. 22
Date: Sun, Nov 29, 2020 at 1:04 PM
Subject: Planning for Upgrades to Blackburn Cres
To: <jgordon@whiterockcity.ca>
Cc: Redacted S. 22

Attention: Mr. Jim Gordon, Director of Engineering

Dear Mr. Gordon,

Redacted S. 22 are homeowners on Blackburn Cres in White Rock. It has come to our attention that the City is planning to complete the much needed drainage upgrades and resurfacing of Blackburn Cres in the near future.

Blackburn Cres is a **quiet "Local Residential"** street and it is very important to us that any upgrades are cost effective, and **do not encourage an increase in traffic volume or speed**. We do not support excessive widening or the installation of sidewalks as both could potentially transform Blackburn Cres from a "quiet Residential Street" to an "Artery".

Mr Gordon, could you please provide the draft plans (before they are final) as well as information on the consultation process as soon as possible?

We have made a considerable investment in our home and we are eager to participate in a fulsome consultation process in a constructive way, and prior to any final design decision.

We appreciate your timely response to our request and I look forward to meeting you soon.

Redacted S. 22

[Redacted]

[Redacted]

Debbie Johnstone

From: Jim Gordon
Sent: December 7, 2020 11:09 AM
To: Redacted S. 22
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hello Redacted S. 22

Thank you for your email.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 7, 2020 10:46 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To: Jim Gordon, Director of Engineering

Jim.

Redacted S. 22 here writing regarding roadworks/sidewalk plan for Blackburn Crescent.

We are curious to see your design and plan before it is finalised. We are wondering several specific things...are you widening the road, are you putting sidewalks in, and will we maintain our parking pads on Blackburn as agreed in our original plan with the city when obtaining our building permit.

We have owned on this wonderful quiet street for **Redacted S. 22** and **Redacted S. 22**

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers.

Redacted S. 22

Debbie Johnstone

From: Redacted S. 22
Sent: December 7, 2020 11:36 AM
To: Jim Gordon
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

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Jim.

Thank you for the prompt response, glad to hear we will have an opportunity to provide some opinions before design being finalised.

From our birds eye view, both bikers and walkers currently seem to be managing nicely and residents have parking pads on Blackburn.

Looking forward to a "COVID acceptable open house" when life becomes a little more normal.

Be safe.

Redacted S. 22

From: Jim Gordon [mailto:JGordon@whiterockcity.ca]
Sent: Monday, December 7, 2020 11:09 AM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hello Redacted S. 22

Thank you for your email.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca

Debbie Johnstone

From: Rosaline Choy
Sent: December 7, 2020 10:53 AM
To: Hiep Lo
Cc: Jim Gordon
Subject: FW: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Importance: High

Hi Hiep,

Please provide a simple response to the resident on behalf of the Engineering department. Please copy Jim and me.

Thank you,

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 7, 2020 10:46 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

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To: Jim Gordon, Director of Engineering

Jim.

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We are curious to see your design and plan before it is finalised. We are wondering several specific things...are you widening the road, are you putting sidewalks in, and will we maintain our parking pads on Blackburn as agreed in our original plan with the city when obtaining our building permit.

We have owned on this wonderful quiet street for **Redacted S. 22** and **Redacted S. 22**
[Redacted]

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers.

Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: December 7, 2020 11:13 AM
To: Hiep Lo
Subject: RE: Blackburn Letter to Residents

Thanks

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 7, 2020 10:02 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Letter to Residents

Hi Jim,

Please see letter to resident regarding the Blackburn Project

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca



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Debbie Johnstone

From: Jim Gordon
Sent: December 7, 2020 10:48 AM
To: Hiep Lo; Rosaline Choy
Subject: FW: [FWD: Blackburn Petition]
Attachments: Blackburn Road repairs 2020 DRAFT 2.docx

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 7, 2020 10:26 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: [FWD: Blackburn Petition]

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

fyi

----- Original Message -----
Subject: [FWD: Blackburn Petition]
From: Redacted S. 22
Date: Mon, December 07, 2020 11:16 am
To: "jgordan@whiterockcity.ca" <jgordan@whiterockcity.ca>

fyi

----- Original Message -----
Subject: Blackburn Petition
From: Redacted S. 22
Date: Wed, November 25, 2020 8:25 am
To: Redacted S. 22

Good morning

Attached is a draft of the petition for your review and comment. Let me know asap because I plan to print it off and go around the neighbourhood to collect signatures shortly.

Also, do either of you have the full names and/or contact info for Redacted S. 22

To: Mayor Darryl Walker: dwalker@whiterockcity.ca

Councillor David Chesney: dchesney@whiterockcity.ca

Councillor Helen Fathers: hfathers@whiterockcity.ca

Councillor Erika Johanson: ejohanson@whiterockcity.ca

Councillor Scott Kristjanson: skristjanson@whiterockcity.ca

Councillor Anthony Manning: amanning@whiterockcity.ca

Councillor Christopher Trevelyan: ctrevelyan@whiterockcity.ca

Director of Engineering, Mr. Jim Gordon: jgordon@whiterockcity.ca

The City of White Rock plans to upgrade the section of street along Blackburn Cres between Archibald Road and High Street. Residents have been advised that this project will include renewal of underground utilities as well as curb, gutter and asphalt. Plans include installing a sidewalk on the north side of the road and bike lanes. In addition, underground stormwater infiltration chambers will be installed to recharge the Aquifer.

It has always been our understanding that this section of roadway would receive a well needed re-paving, along with re-shaping of the surface so that the water would flow to the catch basins, and solve the decades old drainage issues many residents along Blackburn live with. We are happy to hear that the renewal of underground utilities will be performed, along with curb and gutter work that will address the drainage issues mentioned.

We have asked for an opportunity to review the design with the City Engineering department, and have been promised to be shown a copy of the design once it is finalized in the form of a “community information” forum. To date this has not happened. What should have happened from the very start was a “community consultation” forum where the Engineering department could receive feedback from the residents directly affected by this design, and incorporate this feedback into something the community wants, not what the engineering department decides is best for us. Without an opportunity to view and comment on the design, we are making some assumptions.

The undersigned are opposed and voice our **strong objection** to the installation of sidewalks on either side of the street, and object to any road widening or shifting south that may occur as a result of a sidewalk installation for the following reasons:

1. The residents along Blackburn Cres have spent considerable time and effort improving the section of property in front of their homes by installing sprinklers, planting lawns, installing sidewalks, driveways, garden beds, and take pride in maintaining them. All of this will be destroyed where the sidewalk is installed, and if the road is widened to accommodate the sidewalk, the same will happen on the south side.
2. Assuming the road is widened or shifted to the south, many homes on the south side of the street are lower than street level, and any encroachment of the roadway onto their property will result in steeper walkways & driveways because they will have to now have match the roadway closer to their homes. Steeper driveways and sidewalks will result in more hazardous conditions, especially in dark, wet & icy environments.
3. It is not needed nor wanted by the residents of Blackburn Cres. The City of White Rock defines this section of road as a “Local Residential” street, and as such, the traffic volume (cars, bicycles, pedestrians) is very low. This is a very quiet local residential street that has never had a need for a

sidewalk to encourage residents to walk, or cycle and there has never been a conflict with walkers & cyclists with vehicles. The road is wide enough for all three types of users to safely pass each other even when all three meet at the same time (which is very rarely). The roadway should be designed to accommodate existing traffic and not encourage an increase in both traffic and speed.

4. Because this area of White Rock and Surrey is fully developed, vehicle traffic on Blackburn will never increase, and may decrease over the years, therefore vehicle traffic will never be any more of a risk to pedestrians and cyclists than it is now. Have there been ANY incidents or accidents on Blackburn Cres that would have been prevented by the use of a sidewalk?
5. The City's stated reason for the sidewalk is *"In order to be consistent with Council and Metro Vancouver's environmental initiatives to encourage half of all trips to be made by walking, cycling or transit by 2045."* This does not seem rational nor we suspect it is not backed by traffic studies or traffic engineering to support it. Our quiet section of roadway currently does not discourage cyclists or pedestrians. Spending money to destroy improvements the residents have spent considerable time, \$, and effort in developing and maintaining, and installing a sidewalk will do nothing to encourage more cyclists or pedestrians. Where will these newly encouraged cyclists and walkers be walking and cycling to and from that they aren't now? It will be a waste of our taxpayer's money that should be better spent elsewhere. We would rather the City do nothing and leave our road the way it is than install a sidewalk to nowhere that is not needed and serve no purpose.
6. It makes no sense to install a sidewalk on our section of Blackburn when it will end at Archibald Road. Where do cyclists and pedestrians go once they leave this section of Blackburn?
7. The City's financial statements confirm a significant drop in revenues in 2020 due to Covid-19 mitigation efforts. Not installing a sidewalk that the residents do not want or need provides savings to offset revenue losses elsewhere. A win for everybody.
8. Not installing a sidewalk will mean a shortened period of disruption to the residents when the road work is performed.

We the undersigned, ask that the City of White Rock agree with our petition and remove the planned sidewalk from the design, and confirm that the asphalt portions will not be widened beyond their existing boundaries.

If the Mayor, Councillors and the Director of Engineering do not agree with our request, we ask that all work be halted until we can have an opportunity to meet with the City to discuss further.

We look forward to your response.

Redacted S. 22

[Redacted]

[Redacted]

[Redacted]

[Redacted]

Redacted S. 22. Unable to contact

Redacted S. 22

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

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[Redacted]

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[Redacted]

[Redacted]

[Redacted]

[Redacted]

[Redacted]

White Rock My City by the Sea
Engineering and Municipal Operations
877 Keil Street
White Rock B.C.
V4B 4V6
For the Attention of Mr. Jim Gordon, Director of Engineering.

THE CORPORATION OF
THE CITY OF WHITE ROCK
RECEIVED

DEC 09 2020

Operations Department

White Rock, December 7th 2020.

Re : Project Blackburn Crescent (High Street to Archibald Rd.) infrastructure.

Reference is made to your Nov. 27th letter and my conversation with Mr. Lo, on Nov. 23rd.

We are happy to hear that your department is preparing the plans for the improvements on Blackburn Crescent.

In the past there were some drainage issues and now sections of pavement require attention.

From your letter I understand that this part of the road will undergo a mayor overhaul.

I also understand that Engineering is planning to make this section an artery to the City Center with widened roads, bicycle and walk ways.

If that is correct, I do not understand why this specific section of local residential roadway which only accommodates local resident traffic as well as an occasional cyclist will need a separate bicycle path or for the same reason a sidewalk.

We have lived here for close to ten years and walk almost every day on Blackburn and feel very safe without a sidewalk. Blackburn is not a busy street with speeding cars like on 16th Avenue.

As a resident of Blackburn Cres and directly affected by whatever repairs are made to Blackburn Cres I think it would be very beneficial for Engineering to inform the residents what the new plans entail and receive some positive input from those who live here.

We cherish this neighbourhood and have invested a lot of time and resources into building and maintaining our gardens, lawns and other features and as such are very interested and concerned about what is planned for our street.

The lack of transparency and openness has caused a lot of unnecessary aggravation and stress which could be avoided by simply consulting with the residents and sharing your plans.

Please share your ideas before making it a "Fait Accompli".

I look forward to your invitation to see the concept plans for this area.

Very truly yours,

Redacted S. 22

Copies.

1. Rosaline Choy, P.Eng
Manager Engineering
Engineering and Municipal Operations
City of White Rock.

2. Hiep Lo, ASct
Engineering Technologist
Engineering and Municipal Operations
City of White Rock.

Debbie Johnstone

From: Alan Cheung
Sent: December 7, 2020 9:15 AM
To: Hiep Lo; Chris Zota
Subject: RE: Open House Sessions Online

Good morning Hiep,

The Planning department had hosted a few successful online Open House using Microsoft Teams Live Event. Here is an example:

<https://www.whiterockcity.ca/Calendar.aspx?EID=1765&month=10&year=2020&day=7&calType=0>

On the Calendar event page, you'll notice that we have links for:

- The Teams Live event
- Instruction for the public on how to join the event
- an online feedback form
- recording of the event on YouTube
- additional supporting materials

I am still working on supporting documents for hosting a live event. In the meantime, please review the Teams help pages to make sure you and whoever else will be presenting at the event is familiar with the various online meeting functions.

<https://whiterockcity.sharepoint.com/sites/ToolsResources/SitePages/Microsoft-Teams.aspx>

regards,

Alan Cheung

Business Systems Analyst, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2288 | Cell: 778.554.1363 | www.whiterockcity.ca



From: Hiep Lo <HLo@whiterockcity.ca>

Sent: December 7, 2020 8:26 AM

To: Chris Zota <CZota@whiterockcity.ca>; Alan Cheung <ACheung@whiterockcity.ca>

Subject: RE: Open House Sessions Online

Hi Chris,

Thanks for the email, yes I think we should touch base early next year to do some mock meetings.

Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterock.ca



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From: Chris Zota <CZota@whiterockcity.ca>
Sent: December 4, 2020 12:14 PM
To: Hiep Lo <HLo@whiterockcity.ca>; Alan Cheung <ACheung@whiterockcity.ca>
Subject: RE: Open House Sessions Online

Hi Hiep,

We can certainly help you with this and I recommend you put in a helpdesk ticket.

You can do this using the Teams Live Event feature. Planning has done this successfully a few times, and this is what G uses for his town hall meetings, except that it is not open to the public. People can submit questions, and the meeting organizer can selectively publish content.

My advice is to run through at least one or two mock meetings prior to the actual event.

[@Alan Cheung](#) please send him the link to the documentation on the Wave.

Cheers,
Chris

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 3, 2020 2:00 PM
To: Chris Zota <CZota@whiterockcity.ca>
Subject: Open House Sessions Online

Hi Chris,

I hope all is well, we are planning an Open House in the new year (March) regarding a project.

If at that time the orders from Health Canada/BC prohibited gathering we want to have a back up plan to have an online open house.

We want to ensure we have the authority to speak , present and enable/disable comments and take questions and provide feedback

Thoughts on how to do this?

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterock.ca

Debbie Johnstone

From: Jim Gordon
Sent: December 7, 2020 11:12 AM
To: Redacted S. 22
Cc: Rosaline Choy; Hiep Lo
Subject: RE: [FWD: Blackburn Petition]

Hello [Redacted S. 22]

It was nice speaking with you on the phone today.

Following is a copy of the text of an email sent today to another resident on your street.

"Thank you for your email.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Thanks again for your positive feedback,

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: [Redacted S. 22]
Sent: December 7, 2020 10:26 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: [FWD: Blackburn Petition]

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fyi

----- Original Message -----

Subject: [FWD: Blackburn Petition]

From: **Redacted S. 22**

Date: Mon, December 07, 2020 11:16 am

To: "jgordan@whiterockcity.ca" <jgordan@whiterockcity.ca>

fyi

----- Original Message -----

Subject: Blackburn Petition

From: **Redacted S. 22**

Date: Wed, November 25, 2020 8:25 am

To: **Redacted S. 22**

Good morning

Attached is a draft of the petition for your review and comment. Let me know asap because I plan to print it off and go around the neighbourhood to collect signatures shortly.

Also, do either of you have the full names and/or contact info for **Redacted S. 22**

Cheers

Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: December 8, 2020 10:37 AM
To: Redacted S. 22
Cc: Rosaline Choy; Hiep Lo
Subject: Blackburn Crescent

Hello Redacted S. 22

As you may be aware, a number of residents on Blackburn Crescent contacted me following the recent letter sent to residents from Rosaline Choy and Hiep Lo. I am following up with residents that contact me as per the text below and am sending it to you for your information. Please feel free to include this information with any discussions you may have with your neighbours.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Best Regards for the holiday season Redacted S. 22

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
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Tel: 604.541.2181 | www.whiterockcity.ca



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Debbie Johnstone

From: Ralph Volkens
Sent: December 8, 2020 11:51 AM
To: Hiep Lo
Subject: RE: It's close....

FYI - the measurement is less than 6 meters where the truck is parked so we are issuing a ticket for 23 (s) to it and to another vehicle parked behind it.

Ralph

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 8, 2020 11:18 AM
To: Ralph Volkens <RVolkens@whiterockcity.ca>
Subject: RE: It's close....

I got a couple more

MEASURE

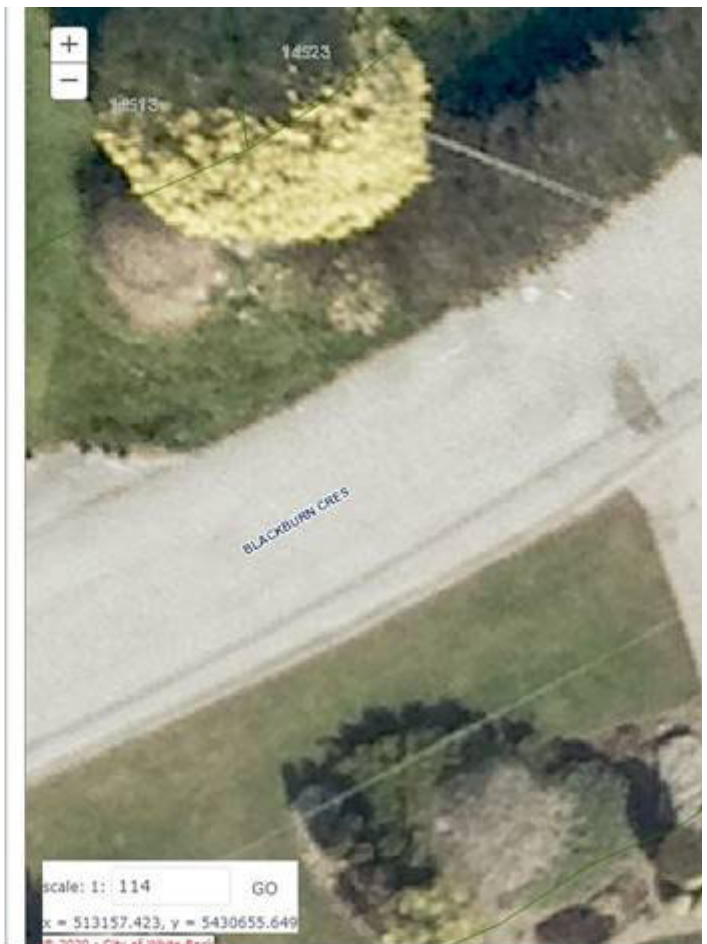
Area Distance Point | Meters ▾

Measurement Result

Total Length = 5.623 Meters

Segment No	Length	Unit Name
1	5.623	Meters
2	0.000	Meters

Clear Measure



MEASURE

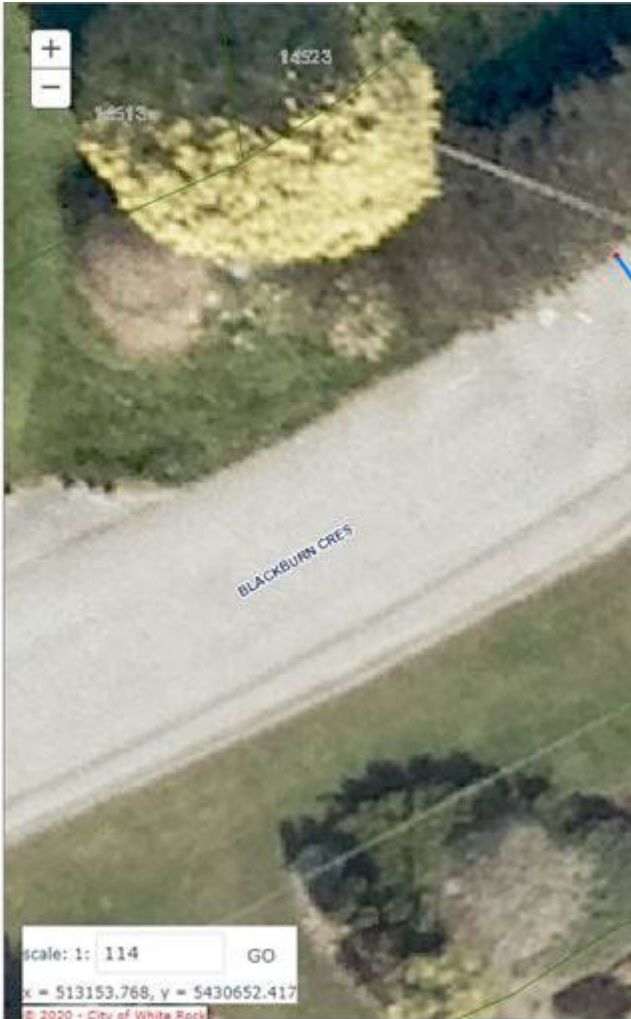
Area Distance Point | Meters ▾

Measurement Result

Total Length = 5.237 Meters

Segment No	Length	Unit Name
1	5.237	Meters
2	0.000	Meters

Clear Measure



From: Ralph Volkens <RVolkens@whiterockcity.ca>
Sent: December 8, 2020 11:03 AM
To: Hiep Lo <HLo@whiterockcity.ca>
Subject: It's close....

Area

Distance

Point

| Meters ▾

Measurement Result

Total Length = 6.115 Meters

Segment No	Length	Unit Name
1	6.115	Meters
2	-0.000	Meters

Clear Measure



Debbie Johnstone

From: Jim Gordon
Sent: December 8, 2020 10:33 AM
To: Redacted S. 22
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Automatic reply: Re: Pending road work on Blackburn Crescent

Hello Redacted S. 22

Thank you for your email.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 8, 2020 9:24 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Re: Automatic reply: Re: Pending road work on Blackburn Crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good morning Jim,

Regarding the recent letter I received regarding the pending road work on Blackburn Crescent, I am again requesting from your department some clarification on exactly what your plan for our road entails. As you are aware there is a

positive response regarding road repair, upgrading storm drains, curbing, etc. On the other hand there is concern about putting in a sidewalk on our street, and I would like to know if this is in the plan. Our home is **Redacted S. 22** Blackburn Crescent, and a sidewalk on this side or frankly anywhere on this street seems unnecessary. I look forward to hearing from you.

Thank you,

Redacted S. 22

----- Original Message -----

From: Jim Gordon <JGordon@whiterockcity.ca>

To: **Redacted S. 22**

Sent: Sat, 28 Nov 2020 10:45:56 -0700 (MST)

Subject: Automatic reply: Re: Pending road work on Blackburn Crescent

```
margin: 0.0cm;
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font-family: Calibri , sans-serif;
}
span.EmailStyle17 {
font-family: "Segoe UI" , sans-serif;
}
*.MsoChpDefault {
font-family: Calibri , sans-serif;
}
div.WordSection1 {
page: WordSection1;
}
/*]]>*/
```

Hello:

I will be out of the office until Dec 7th. Rosaline Choy P.Eng, will be the Acting Director of Engineering & Municipal Operations until I return. Please contact Rosaline at rchoy@whiterockcity.ca for emergent issues.

I will respond to other emails when I return.

Thanks

Jim

Jim Gordon, P.Eng.,

Director of Engineering & Municipal Operations

Debbie Johnstone

From: Ralph Volkens
Sent: December 8, 2020 10:59 AM
To: Hiep Lo
Subject: RE: Problem corner on Blackburn cres.

Hi Hiep.

By looking at the picture, we would not issue a ticket to either vehicle. The bylaw/councils direction does not have a section that we could enforce on the truck.

- It's not an intersection
- There are no lanes painted on the road (so not obstructing a lane of traffic)
- I believe the road is at least 6 metres wide, which according to the bylaw allows people to park on the road. Section 23 (s) states *you can't park on the paved portion of the road if it's less than 6 metres wide*. We interpret this as also meaning, if the road is in fact 6+ metres wide, you can park on the road.
- There are no traffic control devices that prohibit parking (signs)
- The street is not developed, so like any other undeveloped street in the City and as per Councils direction we don't enforce encroachments (parking) on the boulevard.

Because of Councils direction, the outdated bylaw, and the lack of any pavement markings, if we wanted to ensure no vehicles are parked in this location, No Stopping/Parking signs would be needed.

Let me know if you interpret it any differently.

Ralph

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: December 8, 2020 10:41 AM
To: Ralph Volkens <RVolkens@whiterockcity.ca>
Subject: FW: Problem corner on Blackburn cres.

Hi Ralph,

Since we are updating Blackburn Crescent, we have been getting non-stop emails and calls.

Is something that can be looked at by parking staff?



Thanks

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: December 8, 2020 10:31 AM
To: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: FW: Problem corner on Blackburn cres.

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: **Redacted S. 22**

Sent: December 4, 2020 11:56 AM

To: Jim Gordon <JGordon@whiterockcity.ca>

Subject: Problem corner on Blackburn cres.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim Can you forward this photo to Rosaline Choy and Heip lo. Here is a photo of the dangerous corner,at least some no parking signs would be appreciated . Thanks **Redacted S. 22**



Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: December 8, 2020 10:31 AM
To: Rosaline Choy; Hiep Lo
Subject: FW: Problem corner on Blackburn cres.

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 4, 2020 11:56 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Problem corner on Blackburn cres.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim Can you forward this photo to Rosaline Choy and Heip lo. Here is a photo of the dangerous corner,at least some no parking signs would be appreciated . Thanks Redacted S. 22

Debbie Johnstone

From: Ralph Volkens
Sent: December 8, 2020 11:03 AM
To: Hiep Lo
Subject: It's close....

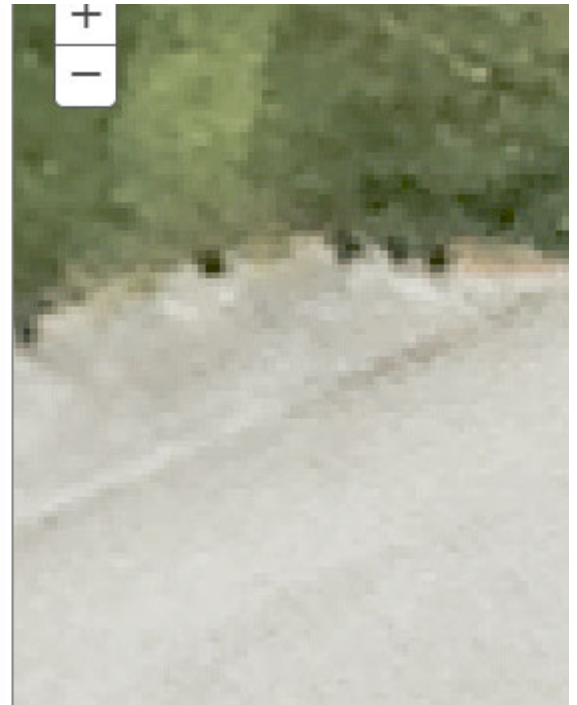
Area Distance Point | Meters ▾

Measurement Result

Total Length = 6.115 Meters

Segment No	Length	Unit Name
1	6.115	Meters
2	-0.000	Meters

Clear Measure



Debbie Johnstone

From: Redacted S. 22
Sent: December 9, 2020 2:25 PM
To: Jim Gordon
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Blackburn Crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim

Thank you for your email and for clarifying a few of the concerns myself and others have had. We are pleased that we will be given an opportunity to present our views and provide feedback to the Engineering Department before the design is finalized.

We are all looking forward to the repairs planned for Blackburn Cres. What we have been expecting is the much needed re-paving and re-shaping of Blackburn Crescent in its current configuration with curb & gutter, improvements to the drainage with new catch basins installed where necessary, possible shifting of existing catch basins if necessary to improve the drainage, and necessary repairs/upgrades to infrastructure.

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On behalf of most of the residents of Blackburn Cres I ask that you respect the wishes of the majority of the residents and re-consider the expense of a sidewalk.

We fully understand that there will be some local widening or narrowing of the existing pavement edge as the new alignment is determined. We look forward to a better walking/cycling/driving surface with curbs and gutters that direct drainage to catch basins. All residents want to maintain their parking pads. Improvements to the infrastructure will not be seen but will be greatly appreciated.

If you wish, I would be very happy to discuss this issue further with you.

Best regards and best wishes to you and your family this holiday season

Redacted S. 22

Redacted S. 22

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: December 8, 2020 10:37 AM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: Blackburn Crescent

Hello Redacted S. 22

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Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Best Regards for the holiday season Redacted S. 22

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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Debbie Johnstone

From: Redacted S. 22
Sent: December 9, 2020 3:05 PM
To: Jim Gordon
Cc: Rosaline Choy; Hiep Lo
Subject: Re: Blackburn Crescent

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One more point I meant to add in my email. When I say that the majority of the residents do not want a sidewalk, I am referring to the fact that all residents were approached regarding this matter. Not all residents were available or could be reached. Of the 17 residents where contact was made, 15 are in opposition to the installation of a sidewalk or a significant shifting of the existing south curb line.

Best regards

Redacted S. 22

From: Redacted S. 22
Sent: Wednesday, December 9, 2020 2:24 PM
To: 'Jim Gordon'
Cc: 'Rosaline Choy'; 'Hiep Lo'
Subject: RE: Blackburn Crescent

Hi Jim

Thank you for your email and for clarifying a few of the concerns myself and others have had. We are pleased that we will be given an opportunity to present our views and provide feedback to the Engineering Department before the design is finalized.

We are all looking forward to the repairs planned for Blackburn Cres. What we have been expecting is the much needed re-paving and re-shaping of Blackburn Crescent in its current configuration with curb & gutter, improvements to the drainage with new catch basins installed where necessary, possible shifting of existing catch basins if necessary to improve the drainage, and necessary repairs/upgrades to infrastructure.

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This area of White Rock and South Surrey is fully developed, so what would cause vehicle traffic on Blackburn to increase? With an aging demographic it is more likely to decrease over the years. Therefore, vehicle traffic will never be any more of a risk to pedestrians and cyclists than it is now. Have there been any incidents or accidents on Blackburn Cres that would have been prevented by the use of a sidewalk?

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If you wish, I would be very happy to discuss this issue further with you.

Best regards and best wishes to you and your family this holiday season

Redacted S. 22

[Redacted]

From: Jim Gordon <JGordon@whiterockcity.ca>

Sent: December 8, 2020 10:37 AM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: Blackburn Crescent

Hello

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Thanks again for your email, we look forward to your attendance at a future “COVID acceptable open house”.

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Jim Gordon P.Eng.

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City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

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Debbie Johnstone

From: Jim Gordon
Sent: December 9, 2020 3:03 PM
To: Redacted S. 22
Cc: p Lo
Subject: Re: Blackburn Crescent

Hi Redacted S. 22

Thank you for your email.

I understand that you do not want a sidewalk on Blackburn Crescent or the road to be pushed closer to your property. However, please be advised that you do not have any special ownership rights to the City boulevard space adjacent to your property. As with any other street in the City, this space is available for roadway, sidewalks, bike lanes, utilities and other community needs.

Redacted S. 22, I hope you recognize that modern street designs do not direct pedestrian traffic to roadways when there are options to install sidewalks. Sidewalks will benefit everyone in the neighbourhood wishing to access Ruth Johnson Park to the east, even if the last connecting piece is not yet installed. Sometimes connectivity is an incremental process.

Rather than trying to rationalize why there should be no sidewalks; perhaps, you could try to envision a community where people can safely walk without competing with vehicles.

Best Regards,

Jim

From: Redacted S. 22
Sent: Wednesday, December 9, 2020 2:24 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
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From: Jim Gordon <JGordon@whiterockcity.ca>

Sent: December 8, 2020 10:37 AM

To: **Redacted S. 22**

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: Blackburn Crescent

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Best Regards for the holiday season **Redacted S. 22**

Jim

Jim Gordon P.Eng.

**Director of Engineering and Municipal Operations,
City of White Rock**

Debbie Johnstone

From: Jim Gordon
Sent: December 14, 2020 5:00 PM
To: Redacted S. 22
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hi Redacted S. 22

Thanks for your email.

Please reference my earlier response.

We will contact residents and develop the design further in 2021.

Given that the design of the road affect residents on Blackburn and on neighbouring streets, we want to make sure we have an opportunity to consider everyone's views. We will reach out when conditions permit.

Jim

Jim Gordon P.Eng.
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Tel: 604.541.2181 | www.whiterockcity.ca



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Sent: December 14, 2020 4:25 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

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Jim.
We are still not clear on what your plan includes.
Will the road be widened?

Why is a sidewalk needed when 90% of walkers and definitely zero% of the running club groups will not use it, but will continue to run on the road?

Will the sidewalk go all of the way up High St. to 16th, if so it would be on the wrong side of the road to connect with the Park.

Will we lose our parking pads?

A bike lane is also not needed as 90% of bikers will not use it as you would need a bike lane on both sides of the road.

Has the City done a study of car, bike, walkers that justifies the need for all of these changes?

Looking forward to getting some answers to our many questions.

Redacted S. 22



From: Jim Gordon [mailto:JGordon@whiterockcity.ca]

Sent: Monday, December 7, 2020 11:09 AM

To: **Redacted S. 22**

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hello **s.22**

Thank you for your email.

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From: Redacted S. 22
Sent: December 7, 2020 10:46 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

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To: Jim Gordon, Director of Engineering

Jim.

Redacted S. 22 here writing regarding roadworks/sidewalk plan for Blackburn Crescent.

We are curious to see your design and plan before it is finalised. We are wondering several specific things...are you widening the road, are you putting sidewalks in, and will we maintain our parking pads on Blackburn as agreed in our original plan with the city when obtaining our building permit.

We have owned on this wonderful quiet street for **Redacted S. 22** and **Redacted S. 22**

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers.

Redacted S. 22

Debbie Johnstone

From: Redacted S. 22
Sent: December 14, 2020 5:26 PM
To: Jim Gordon
Cc: Rosaline Choy; Hiep Lo
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

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Thanks Jim, appreciate the prompt response.

Be safe.

Redacted S. 22

From: Jim Gordon [mailto:JGordon@whiterockcity.ca]
Sent: Monday, December 14, 2020 5:00 PM
To: Redacted S. 22
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
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Hi Redacted S. 22

Thanks for your email.

Please reference my earlier response.

We will contact residents and develop the design further in 2021.

Given that the design of the road affect residents on Blackburn and on neighbouring streets, we want to make sure we have an opportunity to consider everyone's views. We will reach out when conditions permit.

Jim

Jim Gordon P.Eng.

Director of Engineering and Municipal Operations,

City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2181 | www.whiterockcity.ca



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From: Redacted S. 22
Sent: December 14, 2020 4:25 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Jim.

We are still not clear on what your plan includes.

Will the road be widened?

Why is a sidewalk needed when 90% of walkers and definitely zero% of the running club groups will not use it, but will continue to run on the road?

Will the sidewalk go all of the way up High St. to 16th, if so it would be on the wrong side of the road to connect with the Park.

Will we lose our parking pads?

A bike lane is also not needed as 90% of bikers will not use it as you would need a bike lane on both sides of the road.

Has the City done a study of car, bike, walkers that justifies the need for all of these changes?

Looking forward to getting some answers to our many questions.

Redacted S. 22

From: Jim Gordon [mailto:JGordon@whiterockcity.ca]

Sent: Monday, December 7, 2020 11:09 AM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hello Redacted S. 22:

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The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Jim

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From: Redacted S. 22 >
Sent: December 7, 2020 10:46 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

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To: Jim Gordon, Director of Engineering
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We are curious to see your design and plan before it is finalised. We are wondering several specific things...are you widening the road, are you putting sidewalks in, and will we maintain our parking pads on Blackburn as agreed in our original plan with the city when obtaining our building permit.

We have owned on this wonderful quiet street for Redacted S. 22 and built Redacted S. 22

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers.

[Redacted signature block]

Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: January 11, 2021 3:12 PM
To: Christopher Trevelyan; Scott Kristjanson
Cc: Mayor and Council; Donna Kell; Guillermo Ferrero
Subject: RE: Blackburn Crescent from Archibald Road to High Street

Hello Councillor Trevelyan:

The cost for the roadworks is approximately \$950K or about half of the \$2.1M. The rest is for the underground utilities.

There is no extra lane or widening for cycling – the road width is the standard 8.5m and there will be “shareable bike lane” markings.

Hope this helps,

Jim

Jim Gordon P.Eng.
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From: Christopher Trevelyan <CTrevelyan@whiterockcity.ca>
Sent: January 11, 2021 1:41 PM
To: Jim Gordon <JGordon@whiterockcity.ca>; Scott Kristjanson <SKristjanson@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Donna Kell <DKell@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Re: Blackburn Crescent from Archibald Road to High Street

Dear Jim,

Thanks so much.

Would you roughly of the 2.1m how much was for a widened road/sidewalk/bikelane, VS. the paving/sewage/stormdrains etc...

Best Regards,
Christopher

Councillor Christopher Trevelyan

City of White Rock, B.C.

778-867-0267

From: Jim Gordon <JGordon@whiterockcity.ca>

Sent: January 11, 2021 11:24 AM

To: Scott Kristjanson <SKristjanson@whiterockcity.ca>

Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Donna Kell <DKell@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>

Subject: RE: Blackburn Crescent from Archibald Road to High Street

Hello Councillor Kristjanson:

Further to the attached email, following are answers to your questions:

1. Can you provide us with the plans please? Design is not finalized, but conceptually consists of a standard 8.5m pavement with a sidewalk adjacent to the curb on the north side of the road. The road will be shifted slightly to the north (not south as mentioned in the petition) because of grade challenges on the south side of the road. There will be shareable bike lanes on the road, not a dedicated bike lane.
2. How much will this cost? The request in the 2021 Financial Plan including carry over funds is \$2.1M.
3. When will work begin? If Council approves the budget request, a public information meeting will be held and construction will start in the summer and take approx. 6-8 months.

Consequences if the project is not done: The road will continue as a strip pavement with some patching but not dissimilar to other unimproved roads throughout the City. We did receive a few complaints about wet, muddy areas on the north side of the road affecting people alighting from parked cars. The sidewalk adjacent to the curb would address this concern. No major concern with utilities needing immediate upgrades – their upgrades are included in the project so the new road will not be dug up in the future (other than service connections).

This is a legacy project from a number of years ago and is not expected to be a funding priority in the ITIMP currently underway. The ITIMP will likely focus funding recommendations on street classifications of collector and above and on bus route connectivity.

Hope this helps,

Jim

Jim Gordon P.Eng.

**Director of Engineering and Municipal Operations,
City of White Rock**

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From: Scott Kristjanson <SKristjanson@whiterockcity.ca>
Sent: January 11, 2021 10:33 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Donna Kell <DKell@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Re: Blackburn Crescent from Archibald Road to High Street

Hi Jim,

As the Petition against the Blackburn Crescent street improvements are coming up today, could you provide us with an update.

1. Can you provide us with the plans please?
2. How much will this cost?
3. When will work begin?

Thanks,
Scott

Councillor Scott Kristjanson

City of White Rock
15322 Buena Vista Avenue
White Rock, BC V4B 1Y6 Canada
(778) 867-7742

www.whiterockcity.ca

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: January 22, 2020 3:35 PM
To: Redacted S. 22
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Dan Bottrill <DBottrill@whiterockcity.ca>; Donna Kell <DKell@whiterockcity.ca>
Subject: Blackburn Crescent from Archibald Road to High Street

Hello Redacted S. 22

Thank you for your email concerning the condition of Blackburn Crescent between Archibald Road and High Street.

I understand your frustration with the fact that the reconstruction of this road has been delayed a number of times. However, we do have approved design funds now and are designing the new road in anticipation of Council approval of construction as part of the 2020 Financial Plan. If approved with the Financial Plan in March, we plan to start work this Spring.

This project will include renewal of underground utilities as well as curb, gutter and asphalt. We are planning a sidewalk on the north side of the road and bike lanes in order to be consistent with Council and Metro Vancouver's environmental initiatives to encourage half of all trips to be made by walking, cycling or transit by 2045. Although it won't change the appearance or functionality of the street, we also plan to install underground stormwater infiltration chambers to recharge the Aquifer.

Thanks again for contacting us, we appreciate your support for this project.

Jim

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From: Redacted S. 22
Sent: January 21, 2020 11:35 AM
To: Darryl Walker <DWalker@whiterockcity.ca>
Subject: Condition of road surface on Blackburn Cres.

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr . Mayor. I have forwarded these pictures to your engineering dept. i do think as we pay some of the highest taxes in our city we should have better road access than this ? I have repeatedly contacted this dept over the years and keep getting promise of "next year ". Would you please look into this matter. Redacted S. 22



Debbie Johnstone

From: Jim Gordon
Sent: January 12, 2021 11:58 AM
To: Redacted S. 22
Cc: Rosaline Choy
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Attachments: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hi Redacted S. 22

Thanks for your email.

Please reference the email I sent you earlier today.

If Council approves the budget, we will have a public information meeting to discuss the street design.

Jim

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City of White Rock
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Sent: December 7, 2020 10:46 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Importance: High

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To: Jim Gordon, Director of Engineering

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We have owned on this wonderful quiet street for **s. 21** and **Redacted S. 22**

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers.

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From: [Jim Gordon](#)
To: Redacted S. 22
Cc: [Mayor and Council](#); [Guillermo Ferrero](#)
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Date: January 12, 2021 11:47:00 AM
Attachments: [image002.jpg](#)
[image003.jpg](#)
[image004.jpg](#)
[image005.jpg](#)
[image006.jpg](#)
[image007.png](#)

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This petition related to this project was discussed at Council last night. You can access the video tape of Council at <https://www.whiterockcity.ca/453/Video-Recording-of-Council-Meetings> Council will be discussing funding for this project during budget discussions over the next few months.

A question came up at Council about the pole line on the south side of the street. It was thought that the poles were being moved as part of the project. I followed up and provided the following answer to Council today:

"The Hydro pole line is on the south side of the street. There are no plans to relocate these poles as part of the project to shift the road slightly north and install new utilities, pavement, curbs and a single sidewalk on the north side of the street.

We contacted Hydro's design and technical group today and they advised that they have no plans for moving or replacing the poles.

I visited the street this morning and could see sawdust residue from a core taken from one of the poles. We do see this from time to time throughout the City as it appears as if Hydro has a contractor taking these cores as part of their maintenance program. I surmise that this group in Hydro will replace individual poles if the cores show them to be old or rotten."

Although we carried out preliminary design work using project budget funds from 2020, there will be no construction started until Council approves the final project budget and we conduct a public information meeting. If approved, construction would start this summer and take 6-8 months.

Best Regards,

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2181 | www.whiterockcity.ca



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From: Jim Gordon

Sent: December 14, 2020 5:00 PM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

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Thanks for your email.

Please reference my earlier response.

We will contact residents and develop the design further in 2021.

Given that the design of the road affect residents on Blackburn and on neighbouring streets, we want to make sure we have an opportunity to consider everyone's views. We will reach out when conditions permit.

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Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Importance: High

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Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

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From: Redacted S. 22

Sent: December 7, 2020 10:46 AM

To: Jim Gordon <JGordon@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>

Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Importance: High

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Redacted S. 22

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Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers

Redacted S. 22

Debbie Johnstone

From: Trapp, Lennie <Lennie.Trapp@bchydro.com>
Sent: January 12, 2021 10:04 AM
To: Hiep Lo; Wagner, Kim; Gao, Oliver; Maletic, Zoran; Herder, Matthew
Cc: Rosaline Choy; Noble, Sandra
Subject: RE: [External] Blackburn Crescent Project

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Hiep

I have spoken to our team and we don't have any projects pending for this. Sandy Noble indicated that there have been enquiries over the years that have never panned out.

Please let me know if you have further questions.

Lennie Trapp | Design Technical Leader

P 604 543-1581
M 604 312-4022
E lennie.trapp@bchydro.com

ARE YOU A CUSTOMER REQUIRING URGENT PROJECT ASSISTANCE? Please e-mail fwest.designhelp@bchydro.com and we'll contact you immediately to help resolve your concern.

Smart about power in all we do.

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: 2021, January 12 8:53 AM
To: Wagner, Kim <Kim.Wagner@bchydro.com>; Gao, Oliver <Oliver.Gao@bchydro.com>; Trapp, Lennie <Lennie.Trapp@bchydro.com>; Maletic, Zoran <Zoran.Maletic@bchydro.com>; Herder, Matthew <Matthew.Herder@bchydro.com>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: [External] Blackburn Crescent Project

Security Risk Assessment: Use Caution

The email is from <HLo@whiterockcity.ca> with a friendly name of [Hiep Lo](#)

DO NOT click on links or open attachments unless you trust the sender and are expecting the link or attachment. If you suspect this message to be phishing, please report it to BC Hydro [Phishing Support](#)

Good Morning,

The City is planning on upgrading underground utilities and road reconstruction work on Blackburn Crescent between High Street and Archibald Road.

Some of the residents have informed the City that BCHYDRO have plans/interest in relocating the hydrol poles? Do you have any insight on this because as this is the first we have heard of this, can you please also check with your counter parts.

Thank you



Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterockcity.ca



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From: [Jim Gordon](#)
To: **Redacted S. 22**
Cc: [Mayor and Council](#); [Guillermo Ferrero](#)
Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.
Date: January 12, 2021 11:47:00 AM
Attachments: [image002.jpg](#)
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[image005.jpg](#)
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[image007.png](#)

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Best Regards,

Jim

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Sent: December 14, 2020 5:00 PM

To: **Redacted S. 22**

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

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Jim

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877 Keil Street, White Rock, BC V4B 4V6

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From: Redacted S. 22

Sent: December 14, 2020 4:25 PM

To: Jim Gordon <JGordon@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Importance: High

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Jim.

We are still not clear on what your plan includes.

Will the road be widened?

Why is a sidewalk needed when 90% of walkers and definitely zero% of the running club groups will not use it, but will continue to run on the road?

Will the sidewalk go all of the way up High St. to 16th, if so it would be on the wrong side of the road to connect with the Park.

Will we lose our parking pads?

A bike lane is also not needed as 90% of bikers will not use it as you would need a bike lane on both sides of the road.

Has the City done a study of car, bike, walkers that justifies the need for all of these changes?

Looking forward to getting some answers to our many questions.

Redacted S. 22

[Redacted signature block]



From: Jim Gordon [mailto:JGordon@whiterockcity.ca]

Sent: Monday, December 7, 2020 11:09 AM

To: Redacted S. 22

Cc: Rosaline Choy <RChoy@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Subject: RE: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Hello Redacted S. 22

Thank you for your email.

The design for the improvements on Blackburn Crescent is not yet complete. We intend to consult with residents on the street before we finalize the design and start construction. Due to COVID concerns, the timeline for this process is not yet determined.

The feedback I am getting from residents on the streets shows conflicting views. Some wish sidewalks and curbs and others do not. We need to consider these opposing views but also have a duty to meet current design standards, the needs of all White Rock residents and Regional and Local Growth Plans. A key element of the Plans is the provision of facilities to encourage mobility by walking, cycling and transit. Sidewalks along Blackburn Crescent will address this requirement and eventually connect to the transit routes on North Bluff Road.

Thanks again for your email, we look forward to your attendance at a future "COVID acceptable open house".

Jim

Jim Gordon P.Eng.

**Director of Engineering and Municipal Operations,
City of White Rock**

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From: Redacted S. 22

Sent: December 7, 2020 10:46 AM

To: Jim Gordon <JGordon@whiterockcity.ca>

Cc: Rosaline Choy <RChoy@whiterockcity.ca>

Subject: Blackburn Crescent Infrastructure-High St to Archibald Rd.

Importance: High

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To: Jim Gordon, Director of Engineering

Tim

Redacted S. 22 here writing regarding roadworks/sidewalk plan for Blackburn Crescent.

We are curious to see your design and plan before it is finalised. We are wondering several specific things...are you widening the road, are you putting sidewalks in, and will we maintain our parking pads on Blackburn as agreed in our original plan with the city when obtaining our building permit.

We have owned on this wonderful quiet street **Redacted S. 22** and **S.22**
Redacted S. 22

With taxes extremely high already and the City probably struggling to manage their budget and things like the pier renovation debt we are wondering why the need to spend a handsome sum on adding a sidewalk and paving along with Storm sewers and Sanitary sewers replacements in such difficult times is a necessity.

A simple refresh of the road and control of the ground water flow is probably all that is needed to keep all of the owners happy.

Please let us know if you can provide a design plan as many of the owners on Blackburn are anxious to know more about what the plan is, hopefully prior to being finalized.

Cheers

Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: January 13, 2021 11:28 AM
To: Rosaline Choy; Hiep Lo
Subject: FW: Blackburn cr. Upgrade

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
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Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: RE: Blackburn cr. Upgrade

Hello Councillor Kristjanson:

We are asking around but do not know who put down the blue markings or their purpose. Usually blue is associated with water, but these were not done by our water staff.

Sometimes these types of marks are put down by people working with in lawn irrigation systems??

We will keep checking....

Jim

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Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Re: Blackburn cr. Upgrade

Hi Jim,

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Here are some of the attached pictures. You have explained why the hydro poles have been drilled. Do you also know who would have painted these blue planning marks on the various South side driveways?

Thanks again for clearing up my confusion on this!

Councillor Scott Kristjanson
City of White Rock
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www.whiterockcity.ca

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: January 12, 2021 11:52 AM
To: [REDACTED]
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: RE: Blackburn cr. Upgrade

Thanks for your email.

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Council will be discussing funding for this project during budget discussions over the next few months.

A question came up at Council about the pole line on the south side of the street. It was thought that the poles were being moved as part of the project. I followed up and provided the following answer to Council today:

"The Hydro pole line is on the south side of the street. There are no plans to relocate these poles as part of the project to shift the road slightly north and install new utilities, pavement, curbs and a single sidewalk on the north side of the street.

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Although we carried out preliminary design work using project budget funds from 2020, there will be no construction started until Council approves the final project budget and we conduct a public information meeting. If approved, construction would start this summer and take 6-8 months.

Best Regards,

Jim

Jim Gordon P.Eng.
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-----Original Message-----

From: **Redacted S. 22**
Sent: November 26, 2020 9:06 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn cr. Upgrade

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Hi Jim, **Redacted S. 22** **Redacted S. 22** .. At the time of planning and construction, I was in contact with your department in regards to disrepair of the street. Specifically, in front of our house there is a big gully that I drive into every day. At the time of the construction I was looking for solution to my problem and that's when I was told that the street would be upgraded and not to be too concerned about the boulevard.

Can you please advise to the status of this project.

I feel that there is fear mongering in the neighbourhood, with a petition being circulated to voice the displeasure with the street design that they haven't even seen. This petition does not reflect the true picture of the neighbourhood.. We all want our street upgraded and the sooner the better.. As i am sure you understand, that when a neighbour comes around and asks for support its hard to say no.

This petition reminds me of Arbutus corridor where people were trying to take ownership of property that did not belong to them.. Promoters of this petition are doing exactly the same thing..

I am hoping that this petition which is being sent to the mayor and council will not have any impact on this project and that things will proceed as planned.

I trust that this email is confidential!!!

Best regards, **Redacted S. 22**

Redacted S. 22

Debbie Johnstone

From: Jim Gordon
Sent: January 13, 2021 10:30 AM
To: Hiep Lo
Cc: Rosaline Choy
Subject: FW: Blackburn cr. Upgrade
Attachments: IMG_1182.jpg; IMG_1186.jpg; IMG_1187.jpg; IMG_1189.jpg; IMG_1190.jpg; IMG_1191.jpg; IMG_1200.jpg; IMG_1203.jpg; IMG_1209.jpg

Hi Hiep:

Any idea about the blue lines?

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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Councillor Scott Kristjanson

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Best Regards,

Jim

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Best regards, **Redacted S. 22**



















Debbie Johnstone

From: Rosaline Choy
Sent: January 13, 2021 10:44 AM
To: Hiep Lo; Jim Gordon
Subject: RE: Blackburn cr. Upgrade

Hi Hiep,

Did our Water spray the blue lines, or did BC Hydro in preparation for pole replacement?

Rosaline Choy, P.Eng., MBA, LEED Green Associate
Manager of Engineering, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2188 | www.whiterockcity.ca



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From: Hiep Lo <HLo@whiterockcity.ca>
Sent: January 13, 2021 10:36 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Rosaline Choy <RChoy@whiterockcity.ca>
Subject: RE: Blackburn cr. Upgrade

Hi Jim,

If I were to guess, it's a service locate mark that's probably for existing water service.

Blue is typically used for water service of main.

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterockcity.ca



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Jim

Debbie Johnstone

From: Jim Gordon
Sent: January 14, 2021 10:13 AM
To: Rosaline Choy; Hiep Lo
Subject: FW: Blackburn cr. Upgrade
Attachments: Blackburn Cres - Preliminary - Drawings incl. City Comments (2020-08-25).pdf

fyi

From: Jim Gordon
Sent: January 14, 2021 10:11 AM
To: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: RE: Blackburn cr. Upgrade

Hi G:

Attached is the plan view of the preliminary design. The consultant prepared this design using approved budget funds from 2020. Information from the design led us to request additional budget funds in the 2021 Financial Plan taking the total budget to 2.1M. The design is preliminary - there are still some issues to be worked out with parking pads and other encroachments.

The preliminary design consists of a standard 8.5m wide pavement with a sidewalk and parking on the north side of the road. This sidewalk connects to Ruth Johnson Park and will eventually connect to North Bluff Road when sidewalks are installed along High Street. Due to grade concerns, potential conflicts with driveways, and costs; there is no sidewalk planned for the south side of the road. Also, the road will likely be shifted slightly north to better accommodate grades and driveways. There is no specific bike lane proposed, instead "shareable" arrows will be painted on the road surface.

The sidewalks are proposed to be constructed on the north side of the road, immediately adjacent to the curb and gutter and parking lane. This will provide a safe dry "landing area" for those alighting from vehicles and address resident complaints about stepping into puddles on the road edge. As noted, the sidewalk will also provide connectivity in the short and long term.

Although some residents requested copies of the design, we advised that we would discuss the design at an Open House (virtual) subsequent to budget approval. Some people on the street are pushing their own self interests. We feel that it would be fairer if everyone gets an equal opportunity for input if this project is approved by Council.

Project Pros

- Deteriorated pavement will be replaced
- Drainage issues will be addressed
- North side sidewalk will provide connectivity and improve safety by giving pedestrians options other than walking on the road.
- Parking will be available on the north side connecting to a sidewalk rather than current "stepping into a puddle" situation
- Utilities will be upgraded to long term standard
- Shareable bike lane arrows can be painted on the road for the designated neighbourhood bikeway

Project Cons

- \$2.1M total budget including utility upgrades is considerable
- Many of the residents expressed opposition
- There are significant issues with parking pads, landscaping and other encroachments. Past experience has shown the resolution of encroachments can be very problematic.

Hope this helps provide a response to the Councillor's request.

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
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From: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Sent: January 14, 2021 8:37 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Colleen Ponzini <CPonzini@whiterockcity.ca>
Subject: FW: Blackburn cr. Upgrade

Could you provide me the project description that would be presented to Council during Capital Budget Discussions please?

I'm assuming there isn't any plans other than preliminary design just to price the project out and final plans would be developed if project gets approved to move forward?

Thanks,
G.

From: Scott Kristjanson <SKristjanson@whiterockcity.ca>
Sent: January 13, 2021 9:04 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Re: Blackburn cr. Upgrade

Thanks Jim. I appreciate it. Are the draft plans available so we could have a look prior to the budget talks?

Councillor Scott Kristjanson
City of White Rock
15322 Buena Vista Avenue

White Rock, BC V4B 1Y6 Canada
(778) 867-7742

www.whiterockcity.ca

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: January 13, 2021 11:27 AM
To: Scott Kristjanson <SKristjanson@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: RE: Blackburn cr. Upgrade

Hello Councillor Kristjanson:

We are asking around but do not know who put down the blue markings or their purpose. Usually blue is associated with water, but these were not done by our water staff.

Sometimes these types of marks are put down by people working with in lawn irrigation systems??

We will keep checking....

Jim

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877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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From: Scott Kristjanson <SKristjanson@whiterockcity.ca>
Sent: January 13, 2021 10:19 AM
To: Jim Gordon <JGordon@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Re: Blackburn cr. Upgrade

Hi Jim,

Thanks for much for the update.

I am delighted to find that I was mistaken about the hydro poles being moved!

As I said in Council on Monday, this was simply based on my observations when I took a tour of the street on Monday morning. I noticed at least two hydro poles had been drilled, and blue lines had appeared on several

driveways on the South side of the Street that that at first glance look like survey lines for the new road being moved South.

Here are some of the attached pictures. You have explained why the hydro poles have been drilled. Do you also know who would have painted these blue planning marks on the various South side driveways?

Thanks again for clearing up my confusion on this!

Councillor Scott Kristjanson

City of White Rock
15322 Buena Vista Avenue
White Rock, BC V4B 1Y6 Canada
(778) 867-7742

www.whiterockcity.ca

White Rock, BC | Official Website

White Rock City Hall is now open for appointments. City Facilities will be closed to the public until further notice due to COVID-19. For how to conduct City business, visit the affected City Services page. Find the latest information on how the City of White Rock is responding to COVID-19.

www.whiterockcity.ca

From: Jim Gordon <JGordon@whiterockcity.ca>

Sent: January 12, 2021 11:52 AM

To: Redacted S. 22

Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>

Subject: RE: Blackburn cr. Upgrade

Thanks for your email.

This petition related to this project was discussed at Council last night. You can access the video tape of Council at <https://www.whiterockcity.ca/453/Video-Recording-of-Council-Meetings>

Council will be discussing funding for this project during budget discussions over the next few months.

A question came up at Council about the pole line on the south side of the street. It was thought that the poles were being moved as part of the project. I followed up and provided the following answer to Council today:

"The Hydro pole line is on the south side of the street. There are no plans to relocate these poles as part of the project to shift the road slightly north and install new utilities, pavement, curbs and a single sidewalk on the north side of the street.

We contacted Hydro's design and technical group today and they advised that they have no plans for moving or replacing the poles.

I visited the street this morning and could see sawdust residue from a core taken from one of the poles. We do see this from time to time throughout the City as it appears as if Hydro has a contractor taking these cores as part of their maintenance program. I surmise that this group in Hydro will replace individual poles if the cores show them to be old or rotten."

Although we carried out preliminary design work using project budget funds from 2020, there will be no construction started until Council approves the final project budget and we conduct a public information meeting. If approved, construction would start this summer and take 6-8 months.

Best Regards,

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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-----Original Message-----

From: **Redacted S. 22**
Sent: November 26, 2020 9:06 PM
To: Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn cr. Upgrade

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Jim, **Redacted S. 22** At the time of planning and construction, I was in contact with your department in regards to disrepair of the street. Specifically, in front of our house there is a big gully that I drive into every day. At the time of the construction I was looking for solution to my problem and that's when I was told that the street would be upgraded and not to be too concerned about the boulevard.

Can you please advise to the status of this project.

I feel that there is fear mongering in the neighbourhood, with a petition being circulated to voice the displeasure with the street design that they haven't even seen. This petition does not reflect the true picture of the neighbourhood.. We all want our street upgraded and the sooner the better.. As i am sure you understand, that when a neighbour comes around and asks for support its hard to say no.

This petition reminds me of Arbutus corridor where people were trying to take ownership of property that did not belong to them.. Promoters of this petition are doing exactly the same thing..

I am hoping that this petition which is being sent to the mayor and council will not have any impact on this project and that things will proceed as planned.

I trust that this email is confidential!!!

Best regards, Redacted S. 22

Redacted S. 22

SHEET SET PATH: P:\2020\20-0063\100 - CAP PRELIM\0001 - CAP PRELIM\0001 - BLACKBURN.CRIST

CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

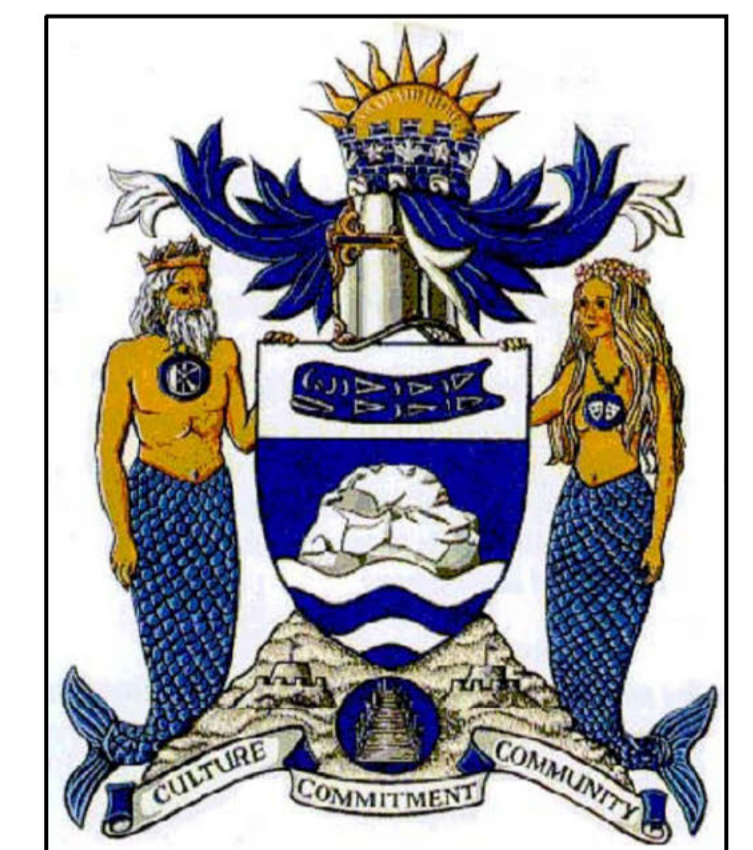
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			BUILDING
		EDGE OF PAVEMENT			CURB & GUTTER
		TRUCK ROUTE			SANITARY SEWER
		SANITARY CONNECTION & INSPECTION CHAMBER			STORM SEWER
		STORM CONNECTION & INSPECTION CHAMBER			STORM SEWER SERVICE
		FRENCH DRAIN			STORM SEWER & CLEANOUT
		CATCH BASIN - TOP INLET & SIDE INLET			LAWN DRAIN
		CATCH BASIN MANHOLE			SWALE
		DITCH			SIDEWALK (ASPHALT)
		SIDEWALK (CONCRETE)			WATERMAIN
		WATER SERVICE CONNECTION			WATER VALVE
		AIR VALVE			HYDRANT & VALVE ASSEMBLY
		YARD HYDRANT			CAPPED END
		WATER METER			BLOW-OFF
		UNDERGROUND TELEPHONE & TELEPHONE BOOTH			UNDERGROUND ELECTRICAL AND MANHOLE
		GASMAIN			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		ORNAMENTAL STREET LIGHT - DAVIT			ORNAMENTAL STREET LIGHT - POST TOP
		UTILITY POLE			UTILITY POLE W/ LIGHT
		JUNCTION BOX			GROUND ELEVATION
		DIRECTION OF OVERLAND FLOW			CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-N	01
DETAILS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	03
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	04
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	05
WATER SERVICE UPGRADES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-WS1-1	06
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	07
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	08
CONDUIT WORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-EL1-1	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	10
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	11
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	12
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	13



R.F. BINNIE & ASSOCIATES LTD.
 314-9440 202 Street
 Langley, BC V1M 4A6
 TEL 604 574 3336
 BINNIE.com



SHEET PART 1 - 2020-07-20 2:26:46 PM FILE: P:\2020\07-20\20-0063\DRAWING\20-0063-01.DWG - 2020-07-20 2:26:46 PM

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS, WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, FORTIS BC, METRO VANCOUVER OR ANY OTHER APPLICABLE THIRD-PARTY UTILITY AGENCY PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
3. ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
4. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
6. THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
7. OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
8. ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
12. SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
13. THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

ROADWORKS NOTES:

1. CHANGES OF GRADE AND DIRECTION SHALL BE FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
2. EARTHWORKS, INCLUDING STRIPPING ALL LOOSE OR OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOTS, COMPACTING, AND SLOPE GRADING SHALL BE COMPLETED AS PER CONTRACT DOCUMENTS.
3. EMBANKMENTS SHALL BE PLACED, SHAPED, COMPACTED, AND PROTECTED TO STANDARDS AND SPECIFICATIONS AS REQUIRED IN THE CONTRACT DOCUMENTS.

4. WHERE INFILLING OF EXISTING DITCHES ETC. IS REQUIRED, AND WHERE SERVICES ARE CONSTRUCTED IN FILL SECTION, FILL MATERIAL SHALL BE GRANULAR MATERIAL, SUPPLIED, PLACED AND COMPACTED AS PER MMCD SPECIFICATION.
5. ALL SUB-BASE ROAD AND GRANULAR BASE MATERIALS SHALL CONFORM TO MMCD SPECIFICATION.
6. THE ROAD SUB-BASE AND BASE SHALL EXTEND A MINIMUM OF 0.3 METERS BEYOND ROAD EDGE OR CURB AND GUTTER.
7. THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL CONFORM WITH THE SPECIFICATIONS DETAILED UNDER THE MMCD AND CITY OF WHITE ROCK SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS, IF APPLICABLE.
8. BENKELMAN BEAM TESTING OF THE ROAD BASE IS REQUIRED PRIOR TO PAVING.
9. UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR, ASPHALTIC CONCRETE FOR ROADWORK SHALL BE PLACED AND COMPACTED TO THE SPECIFIED DENSITIES IN 2 SEPARATE LIFTS.
10. TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE. PRIOR TO PLACING ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES AND OTHER ABUTTING STRUCTURES SHALL BE TACK COATED WITH ASPHALT EMULSION.
11. ALL NEW PAVEMENT SHALL BE GRADED SUCH THAT NO PONDING FORMS. THE MINIMUM CROSS SLOPE ON ANY NEW OR OVERLAIN ROAD SURFACE SHALL BE 2%.
12. ALL VALVES BOXES, MANHOLES, ETC., THAT ARE WITHIN THE PAVED SURFACE OF THE ROADWAY SHALL BE ADJUSTED TO FINISHED COURSE ELEVATION PRIOR TO FINISH COURSE PAVING.

WATER NOTES:

1. TIE-INS OF NEW WATERMANS AND SERVICES TO LIVE MAINS, AFTER TESTING AND CHLORINATION, SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER'S INSPECTOR AND THE OBSERVATION OF THE OWNER'S REPRESENTATIVE. ALL PIPES AND FITTINGS USED FOR FINAL CONNECTIONS MUST BE SWABBED AND CLEANED WITH 100ppm SOLUTION.
2. PRIOR TO INSTALLATION OF NEW SERVICES, THE CONTRACTOR SHALL EXPOSE EXISTING SERVICE CONNECTIONS TO CONFIRM THE SIZE AND LOCATION OF SERVICES.
3. ALL NEW WATERMANS SHALL BE CAPPED 1.5m FROM TIE-IN POINTS TO EXISTING WATERMANS TO HAVE TEST POINTS SET UP, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS. TIE-IN POINTS SHALL BE CONFIRMED DURING PRE-EXCAVATION. THE PROPOSED WATERMAIN SHALL BE SET AT LINE AND GRADE TO MEET THE EXISTING WATERMAIN. TIE-IN POINTS SHALL INCLUDE TEST POINTS AS PER DETAIL ON THIS SHEET.
4. ALL RESIDENTIAL SERVICE CONNECTION PIPES SHALL BE MINIMUM OF 38mm DIAMETER POLYETHYLENE PRESSURE CLASS 200 UNLESS OTHERWISE SPECIFIED.
5. ALL FITTINGS SHALL BE D.I. TYTON JOINTS UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE STAINLESS STEEL.
6. ALL FITTINGS AND VALVES SHALL BE RESTRAINED. ALL TEMPORARY FITTINGS FOR PRESSURE TESTING SHALL BE RESTRAINED.
7. TEST POINTS SHALL BE SIZED TO ALLOW FLUSHING VELOCITY OF 0.8 m/s.
8. WHEN THE WATERMAIN IS CLOSER THAN 0.5m VERTICALLY OR 3.0m HORIZONTALLY TO A SEWER (STORM OR SANITARY) BUT IS ABOVE THE SEWER, THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. IF THE ABOVE IS NOT ATTAINABLE, THE JOINTS SHALL BE WRAPPED WITH HEAT SHRINK PLASTIC OR PACKED WITH COMPOUND AND WRAPPED WITH DENSOTAPE.
9. WHEN THE WATERMAIN IS BENEATH THE SEWER, THERE SHALL BE A MINIMUM OF 300mm SEPARATION. THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. WATERMAIN JOINTS WITHIN 3.0m OF THE CROSSING SHALL BE WRAPPED AS NOTED ABOVE.
9. ACCEPTABLE STANDARDS ARE ANSI/AWWA C214 (FACTORY APPLIED), ANSI/AWWA C209 (FIELD APPLIED), AND ANSI/AWWA C217-90 (PETROLATUM TAPE). ALL MATERIALS USED SHALL HAVE ZERO HEALTH HAZARD.
10. THE CONTRACTOR SHALL ENSURE THE WATERMAIN AND SERVICE CONNECTIONS ARE TESTED AND CHLORINATED PRIOR TO ANY TIE-IN WORKS (MAINS AND CONNECTIONS). CONTRACTOR SHALL HIRE QUALIFIED THIRD PARTY TO PERFORM TESTING. PRESSURE TESTING AND MICROBIOLOGY SAMPLING RESULTS SHALL BE SIGNED-OFF BY THE CONSULTANT WITNESSING THE TESTS AND SUBMITTED TO THE CITY PRIOR TO FINAL COMPLETION OF THE TIE-INS.
11. ALL NEW SERVICE CONNECTIONS SHALL BE POLYETHYLENE COMPLETE WITH 14

- GAUGE COPPER COATED TRACER WIRE, SAMPLE TESTED. THE CONTRACTOR MUST CONTACT THE MANUFACTURER TO REVIEW INSTALLATION PROCEDURE.
12. ALL VALVE BOXES SHALL BE NELSON STYLE. ANY VALVE BOX OUTSIDE OF A TRAVELLED ROAD SHALL HAVE A 500mmØ ASPHALT APRON PLACED AROUND IT.
 13. ALL AIR RELEASE VENTS, STAND PIPES, ETC. SHALL BE FORD ENGINE BLUE.
 14. ENSURE OPERATION OF HYDRANT ISOLATION VALVE SHALL NOT BE IMPEDED BY PROXIMITY OF HYDRANT.
 15. RESTRAIN WATERMAIN AT JOINTS AS REQUIRED FOR SEISMIC ZONES.

SANITARY AND STORM SEWER NOTES:

1. THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH/LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
2. THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.
3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
4. ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
5. ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
6. ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
7. ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD STANDARD DRAWING NO. S1, UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY AND DRAINAGE SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
9. ALL SANITARY AND STORM SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
10. ALL WYES SHALL BE MANUFACTURED.
11. THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
12. THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PACP" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
14. THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.
15. ALL CATCH BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S11. ALL CATCH BASINS LEADS SHALL BE 200mm DIAMETER PVC SDR 35 PIPE, UNLESS SPECIFIED OTHERWISE. ALL CATCH BASIN GRATES SHALL BE DOBNEY B26-B FOR FRAMES IN CENTRE OF THE ROAD AND DOBNEY B23 OR 24 FOR FRAMES NEXT TO CURBS. ALL CATCH BASIN SHALL BE EQUIPPED WITH APPROVED TRAPPING HOODS. BENDS SHALL NOT BE PERMITTED IN PLACE OF TRAPPING HOODS.
16. ALL LAWN BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S12, EXCEPT CONCRETE BARREL TO BE 450mm DIAMETER. LAWN BASIN LEADS TO BE 100mm DIAMETER PVC SDR 35 OR 28 PIPE.
17. ALL MANHOLE LIDS, CLEANOUT COVERS, CATCH BASIN GRATES, LAWN BASIN GRATES AND THE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.

PAVEMENT MARKING NOTES:

1. ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).
2. ALL PAVEMENT MARKING LINES AND SYMBOLS SHALL BE THERMOPLASTIC.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATERS BODIES.
2. STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
4. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.
5. THE COST OF ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO MAINTENANCE, REMOVAL, STREET CLEANING AND DUST CONTROL, SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE FOR THE WORK WITH NO ADDITIONAL COST TO THE CITY.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
2. THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
3. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
4. THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
5. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP WITH UPDATES OF CHANGES IN RED COLOUR ON A DAILY BASIS IN ORDER TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
2. THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
3. THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
4. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A. A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS', AND
 - B. A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS'.

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 TEL 604 574 3336
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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET NOTES

SURVEYED BY	N/A
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	NOT TO SCALE

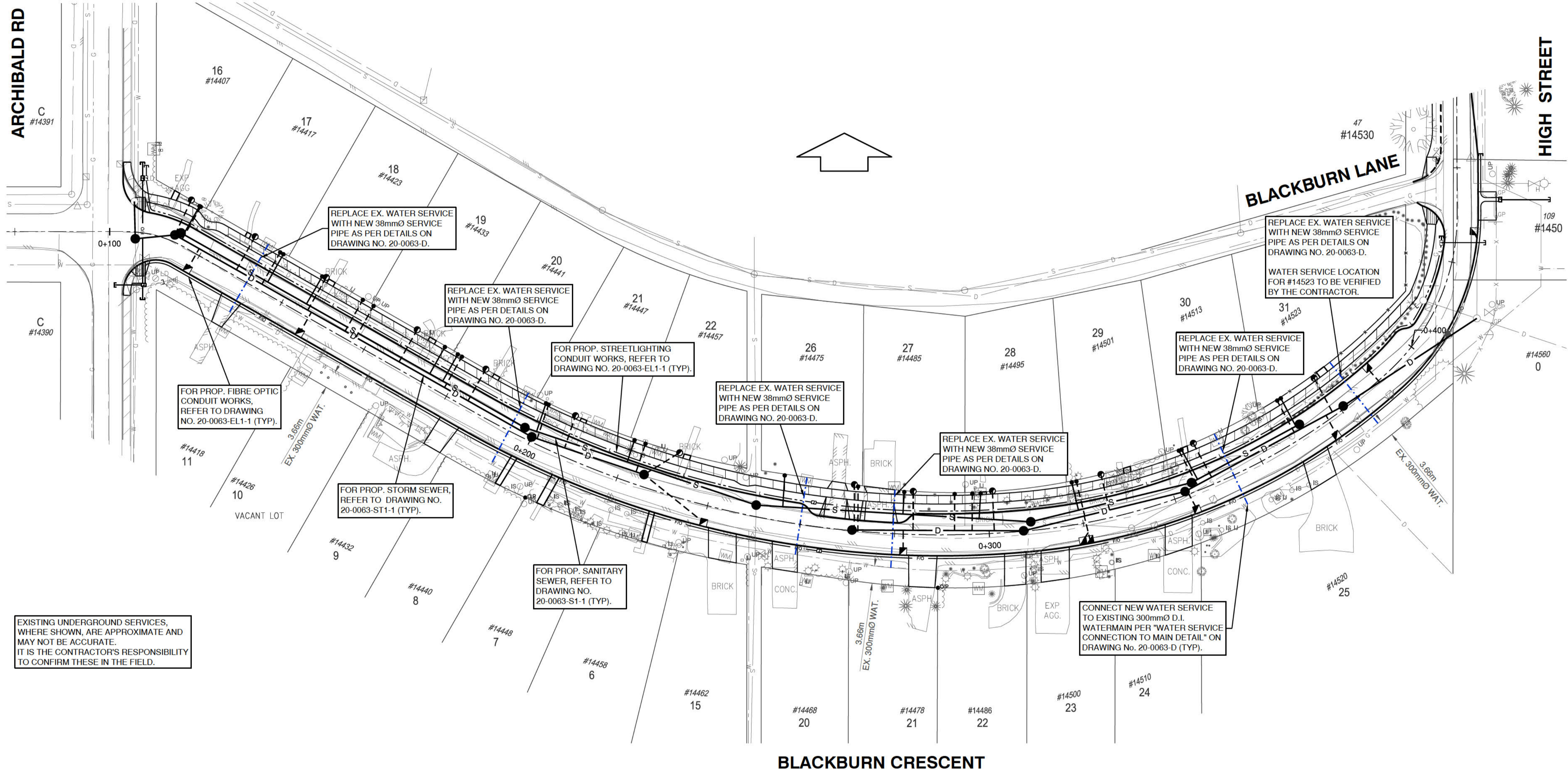
DATE	2020-01-28
DRAWING No.	20-0063-N
SHEET	01 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

PLOTTED: 2020-08-20 2:26:46 PM FILE: P:\2020\07-20\20-0063\DRAWING\20-0063-01.DWG - 2020-07-20 2:26:46 PM

BENCHMARK:
 MONUMENT 89H3843 LOCATED AT INTERSECTION
 OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

GENERAL NOTES - WATER SERVICE

1. PRIOR TO INSTALLATION OF NEW WATER SERVICES, THE CONTRACTOR SHALL EXPOSE EXISTING SERVICE CONNECTIONS TO CONFIRM THE SIZE AND LOCATION OF SERVICES.
2. ALL RESIDENTIAL SERVICE CONNECTION PIPES SHALL BE 38mm DIAMETER POLYETHYLENE PRESSURE CLASS 200 PIPE (AWWA C901) UNLESS OTHERWISE SPECIFIED.
3. WATER SERVICES TRANSFERS AND ABANDONMENT OF EXISTING WATERMAIN, IF APPLICABLE, SHALL BE BY CITY CREWS AFTER THE NEW WATERMAIN IS CHLORINATED AND PRESSURE-TESTED BY THE CONTRACTOR.
4. WATER SERVICE CHLORINATED TEST RESULTS AND PRESSURE-TEST RESULTS SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR AND/OR ENGINEER OF RECORD PRIOR TO TIE-IN TO EXISTING WATERMAIN.
5. TIE-INS OF NEW WATER SERVICES TO LIVE MAINS, AFTER TESTING AND CHLORINATION, SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER'S INSPECTOR AND THE OBSERVATION OF THE OWNER'S REPRESENTATIVE. ALL PIPES AND FITTINGS USED FOR FINAL CONNECTIONS MUST BE SWABBED AND CLEANED WITH 100ppm SOLUTION.
6. ACCEPTABLE STANDARDS ARE ANSIAWWA C214 (FACTORY APPLIED), ANSIAWWA C209 (FIELD APPLIED), AND ANSIAWWA C217-90 (PETROLATUM TAPE). ALL MATERIALS USED SHALL HAVE ZERO HEALTH HAZARD.
7. THE CONTRACTOR SHALL ENSURE THE WATER SERVICE CONNECTIONS ARE TESTED AND CHLORINATED PRIOR TO ANY TIE-IN WORKS (MAINS AND CONNECTIONS). CONTRACTOR SHALL HIRE QUALIFIED THIRD PARTY TO PERFORM TESTING. PRESSURE TESTING AND MICROBIOLOGY SAMPLING RESULTS SHALL BE SIGNED-OFF BY THE CONSULTANT WITNESSING THE TESTS AND SUBMITTED TO THE CITY PRIOR TO FINAL COMPLETION OF THE TIE-INS.
8. ALL NEW WATER SERVICE CONNECTIONS SHALL BE POLYETHYLENE COMPLETE WITH 14 GAUGE COPPER COATED TRACER WIRE, SAMPLE TESTED. THE CONTRACTOR MUST CONTACT THE MANUFACTURER TO REVIEW INSTALLATION PROCEDURE.
9. RESTRAIN WATERMAIN AT JOINTS AS REQUIRED FOR SEISMIC ZONES. SEE TABLE FOR RESTRAINING LENGTHS FOR PIPES.



EXISTING UNDERGROUND SERVICES, WHERE SHOWN, ARE APPROXIMATE AND MAY NOT BE ACCURATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE IN THE FIELD.

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL1-1.

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No.	DATE	REVISION	BY
1	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM



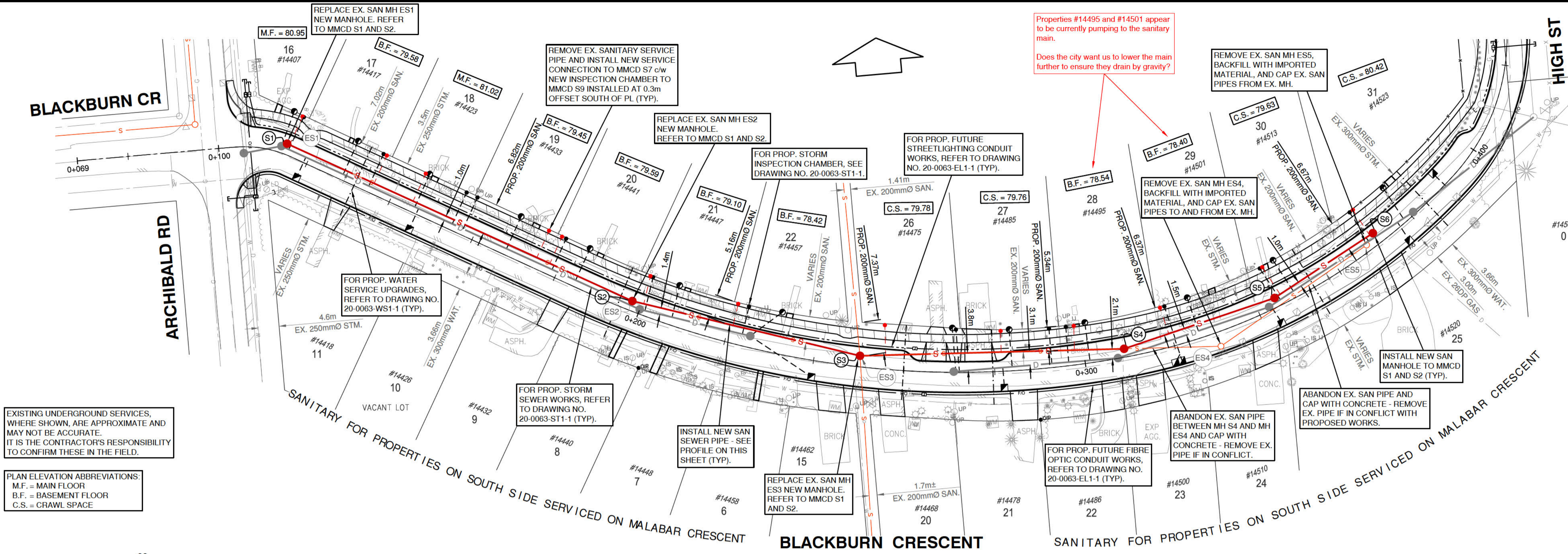
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 TEL 604 574 3336
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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET WATER SERVICE UPGRADES

SURVEYED BY	TA
DRAWN BY	NM
DESIGNED BY	NM
CHECKED BY	MH
SCALES	0 1:500 20m

DATE	2020-06-08
DRAWING No.	20-0063-WS1-1
SHEET	06 OF 13
REV.	1
DESTROY ALL PRINTS BEARING PREVIOUS No.	

SHEET SET PART 1: 20-0063-S1-01 TO 20-0063-S1-13 - SANITARY SEWER - BLACKBURN CRES. DATE: 2020-01-28
 USER: MCKAY
 FILE: 20-0063-S1-01.dwg
 PLOT: 2020-08-25 2:21:22 PM
 PLOT: 2020-08-25 2:21:22 PM



BENCHMARK:
 MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

GENERAL NOTES - SANITARY SEWER

- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mmØ PVC DR28 SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
- CONTRACTOR SHALL FIND ALL EXISTING LIVE SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM c/w NEW INSPECTION CHAMBER AT 0.3m FROM PL TO MMCD S9.
- PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
- CCTV INSPECTION REPORTS COMPLETE WITH VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
- UTILITY TRENCHES SHALL BE AS PER MMCD G4.
- CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
- CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.

FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL-1.

FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.

FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.

STATION	PROF. INVERT ELEVATION	EX. INVERT ELEVATION	STATION ALONG BASELINE
0+100			0+100
0+114.3	78.660 SE	78.660 SE	0+114.3
0+120			0+120
0+140			0+140
0+160	PROP. 83.43m-200mmØ PVC SDR35 SAN. @ 0.73%	EX. 200Ø SAN.	0+160
0+180			0+180
0+197.81	78.050 NW 78.030 E	78.050 NW 78.030 E	0+197.81
0+220	PROP. 51.48m-200mmØ PVC SDR35 SAN. @ 0.91%	EX. 200Ø SAN.	0+220
0+240			0+240
0+250.04	77.560 W 77.540 S 77.570 E	77.560 W 77.540 S 77.570 E	0+250.04
0+260			0+260
0+280	PROP. 58.09m-200mmØ PVC SDR35 SAN. @ -0.35%	EX. 200Ø SAN.	0+280
0+300			0+300
0+308.96	77.773 W 77.773 E	77.773 W 77.773 E	0+308.96
0+320	PROP. 34.91m-200mmØ PVC SDR35 SAN. @ -0.40%	EX. 200Ø SAN.	0+320
0+320.60			0+320.60
0+340			0+340
0+344.52	77.913 W 77.913 NE	77.913 W 77.913 NE	0+344.52
0+360	PROP. 25.90m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+360
0+369.22			0+369.22
0+376.96	78.172 SW	78.905 SW	0+376.96
0+380			0+380
0+400			0+400
0+420			0+420

No.	DATE	REVISION	BY
2	2020-08-24	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

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CLIENT: **CITY OF WHITE ROCK**
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION: **BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS**
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
SANITARY SEWER

SURVEYED BY: TA
 DRAWN BY: SV
 DESIGNED BY: RANM
 CHECKED BY: RA

DATE: 2020-01-28
 DRAWING No.: **20-0063-S1-1**

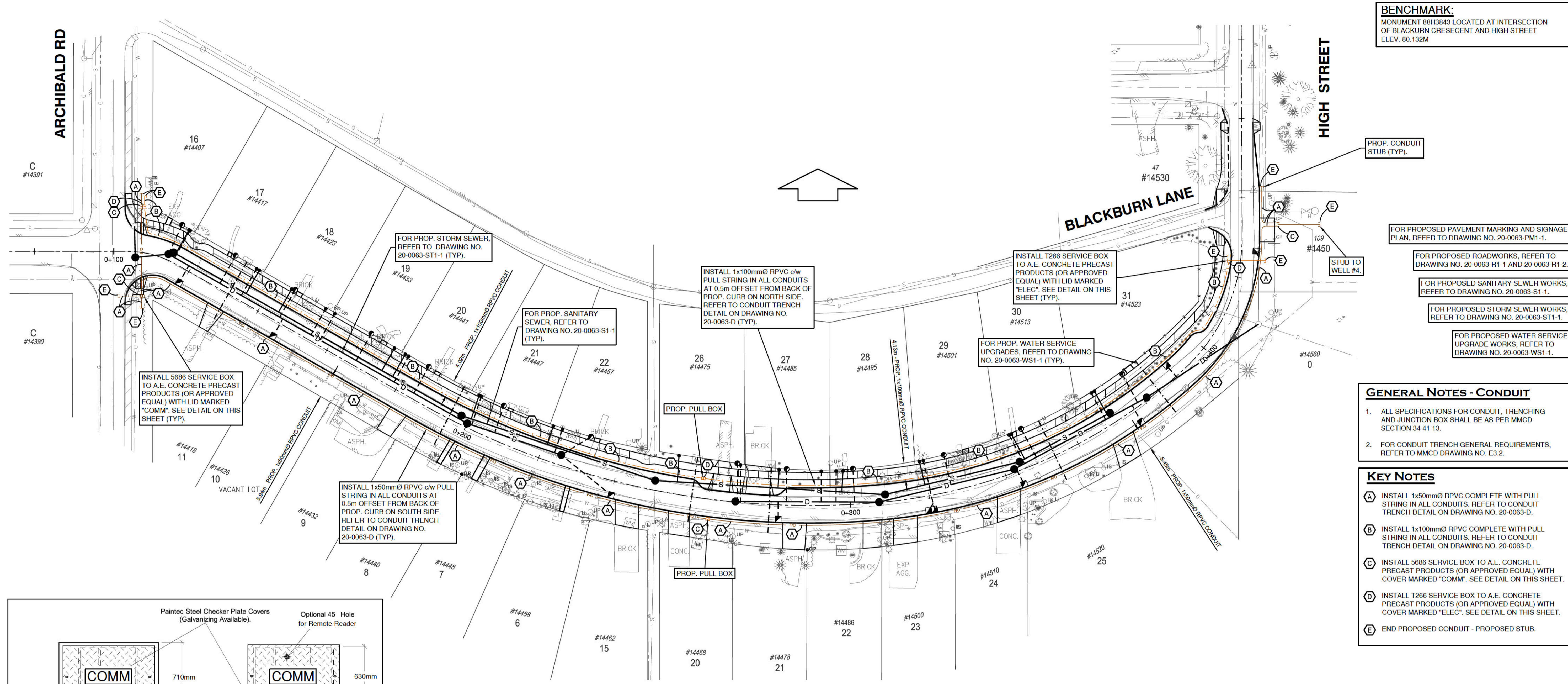
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 H 1:500 20m
 V 1:50 2m

DATE: 2020-01-28
 DRAWING No.: **20-0063-S1-1**

SHEET 07 OF 13
 REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.

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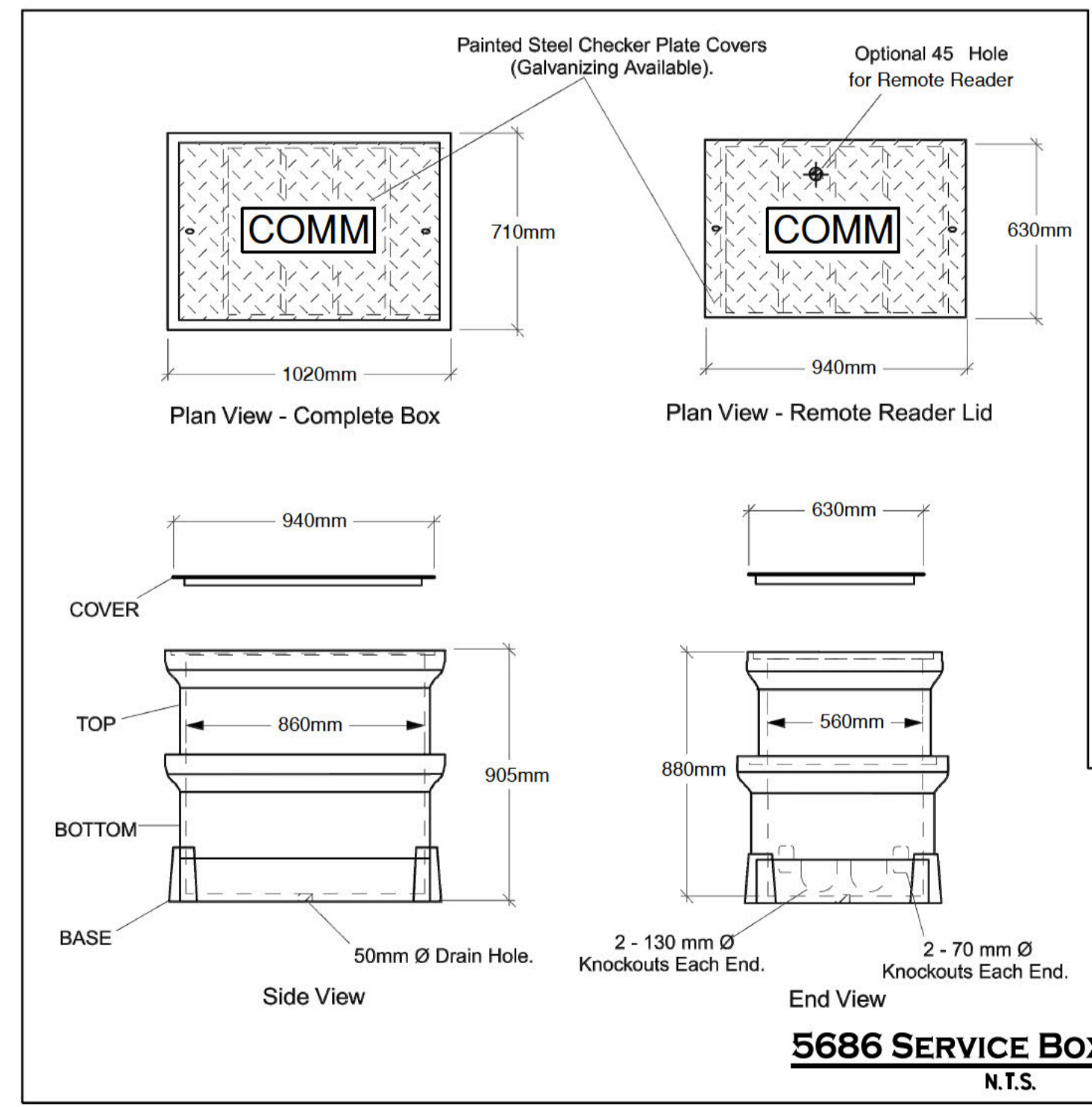


BENCHMARK:
MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

- FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.
- FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.
- FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.
- FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.
- FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.

- GENERAL NOTES - CONDUIT**
1. ALL SPECIFICATIONS FOR CONDUIT, TRENCHING AND JUNCTION BOX SHALL BE AS PER MMCD SECTION 34 41 13.
 2. FOR CONDUIT TRENCH GENERAL REQUIREMENTS, REFER TO MMCD DRAWING NO. E3.2.

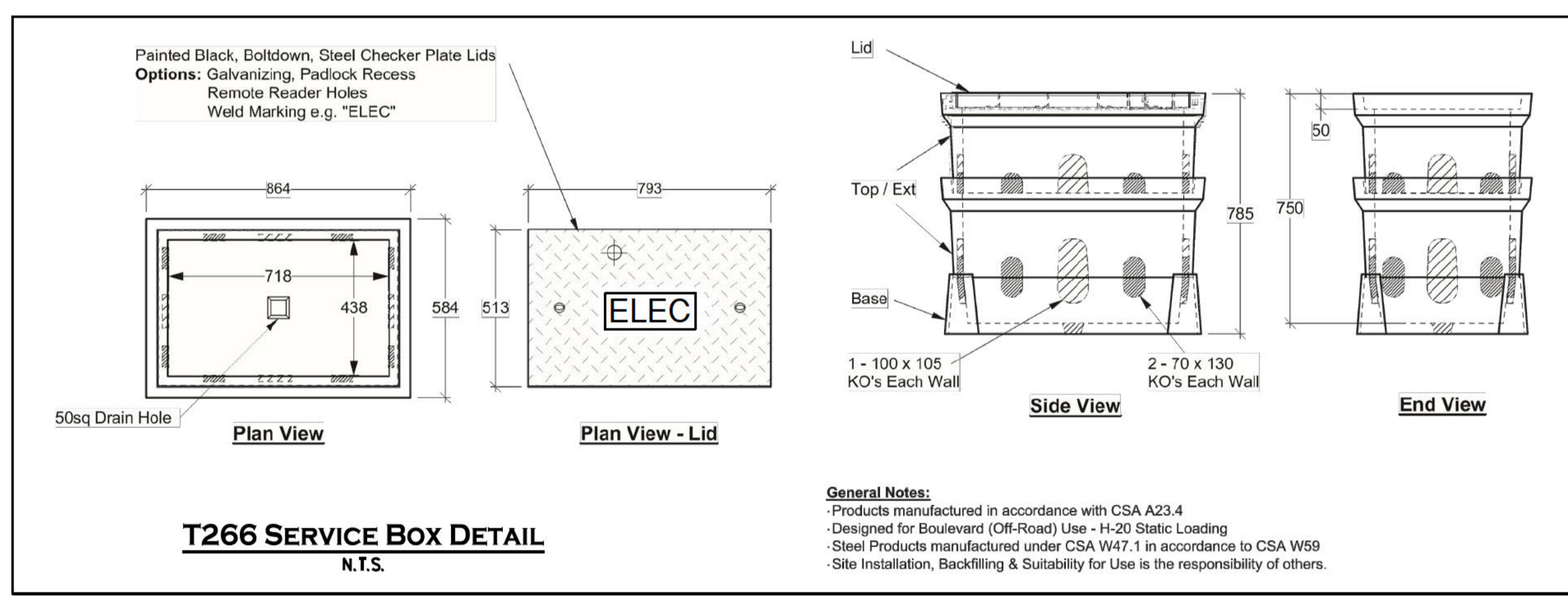
- KEY NOTES**
- (A) INSTALL 1x50mmØ RPVC COMPLETE WITH PULL STRING IN ALL CONDUITS. REFER TO CONDUIT TRENCH DETAIL ON DRAWING NO. 20-0063-D.
 - (B) INSTALL 1x100mmØ RPVC COMPLETE WITH PULL STRING IN ALL CONDUITS. REFER TO CONDUIT TRENCH DETAIL ON DRAWING NO. 20-0063-D.
 - (C) INSTALL 5886 SERVICE BOX TO A.E. CONCRETE PRECAST PRODUCTS (OR APPROVED EQUAL) WITH COVER MARKED "COMM". SEE DETAIL ON THIS SHEET.
 - (D) INSTALL T266 SERVICE BOX TO A.E. CONCRETE PRECAST PRODUCTS (OR APPROVED EQUAL) WITH COVER MARKED "ELEC". SEE DETAIL ON THIS SHEET.
 - (E) END PROPOSED CONDUIT - PROPOSED STUB.



General Notes:

- Cement to CAN / CSA A5-93 Portland Cement.
- Inside dimensions 860 x 560 x 880 mm deep.
- Site installation and backfilling as shown on Contract Drawings.
- Cement to CAN / CSA A5-93 Portland Cement.
- Optional lid with 45mm Ø opening (positioned as shown) for remote reader sensors.

Weights
Cover: 41 kg / 90 lbs.
Top: 77 kg / 170 lbs.
Bottom: 75 kg / 165 lbs.
Base: 57 kg / 125 lbs.



General Notes:

- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

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No.	DATE	REVISION	BY
1	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM

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CLIENT
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877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CONDUIT WORKS

SURVEYED BY TA
DRAWN BY NM
DESIGNED BY NM
CHECKED BY RA

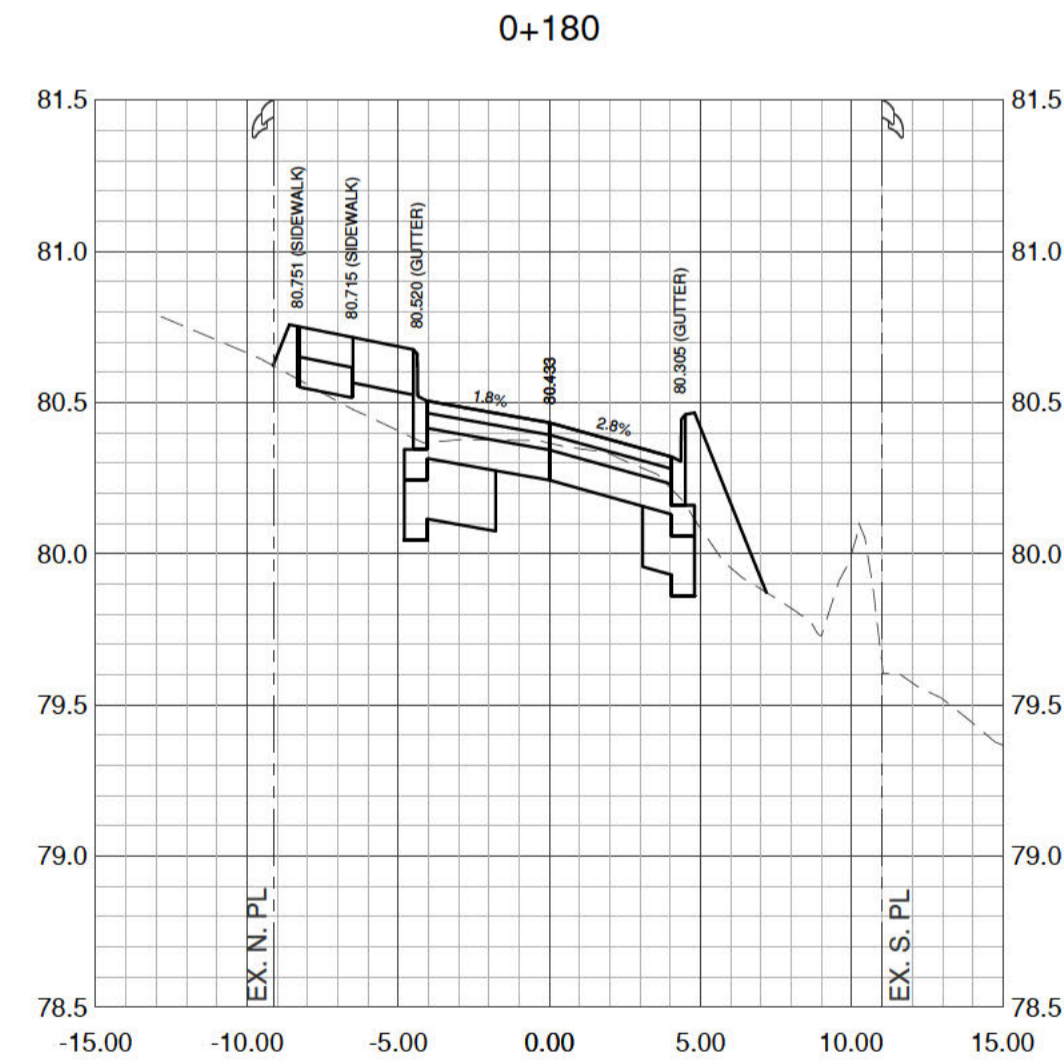
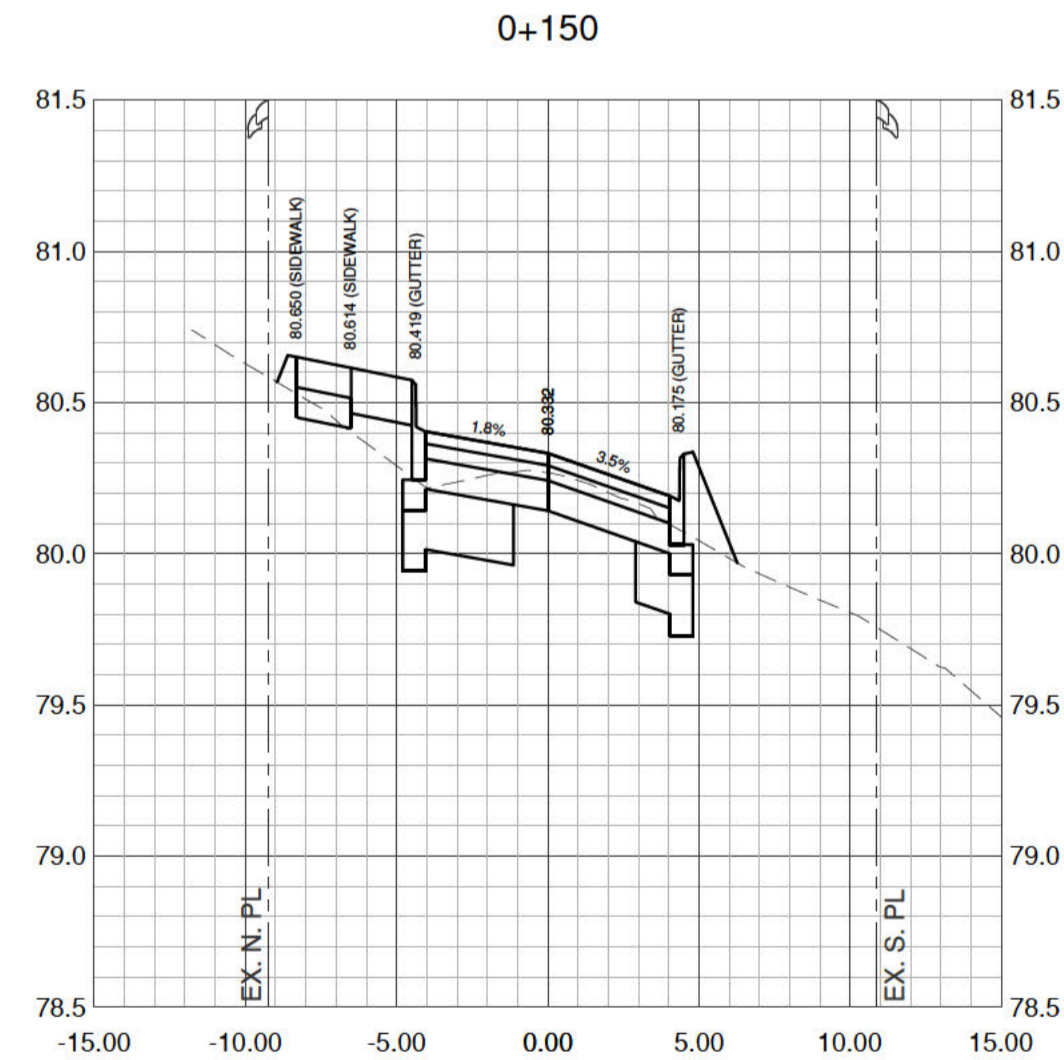
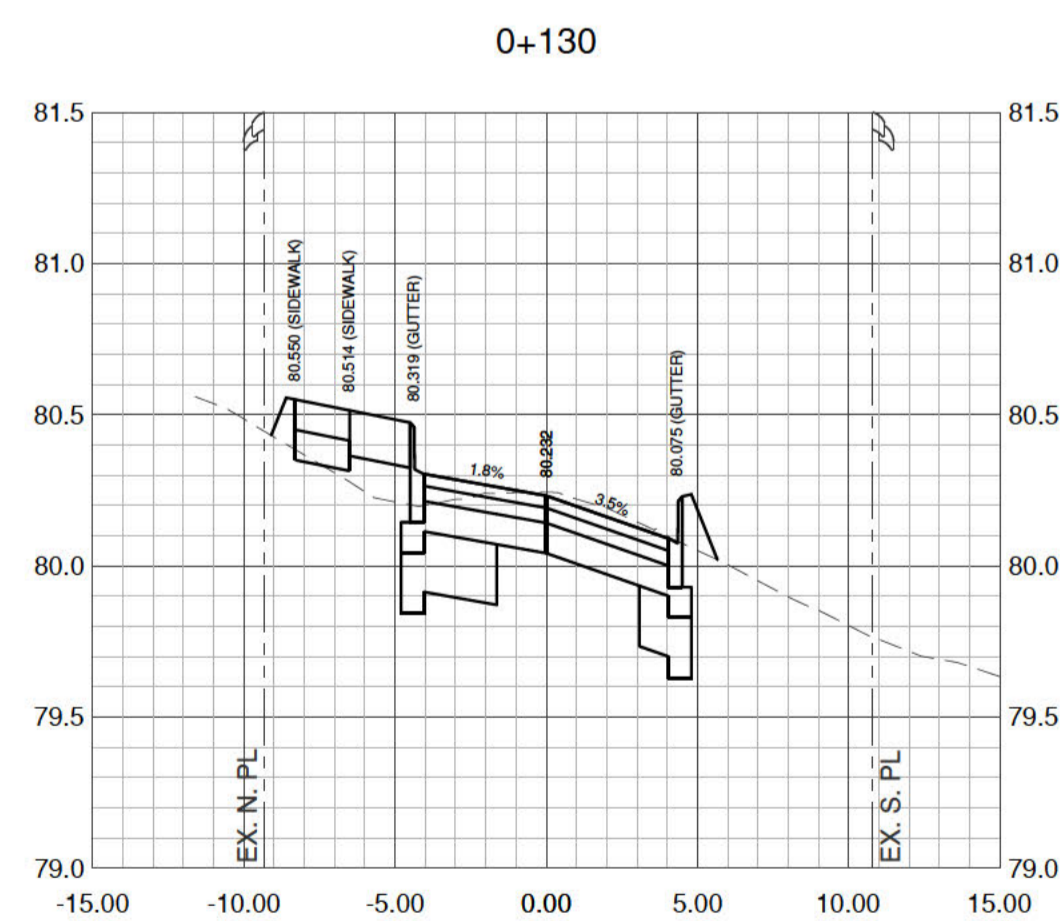
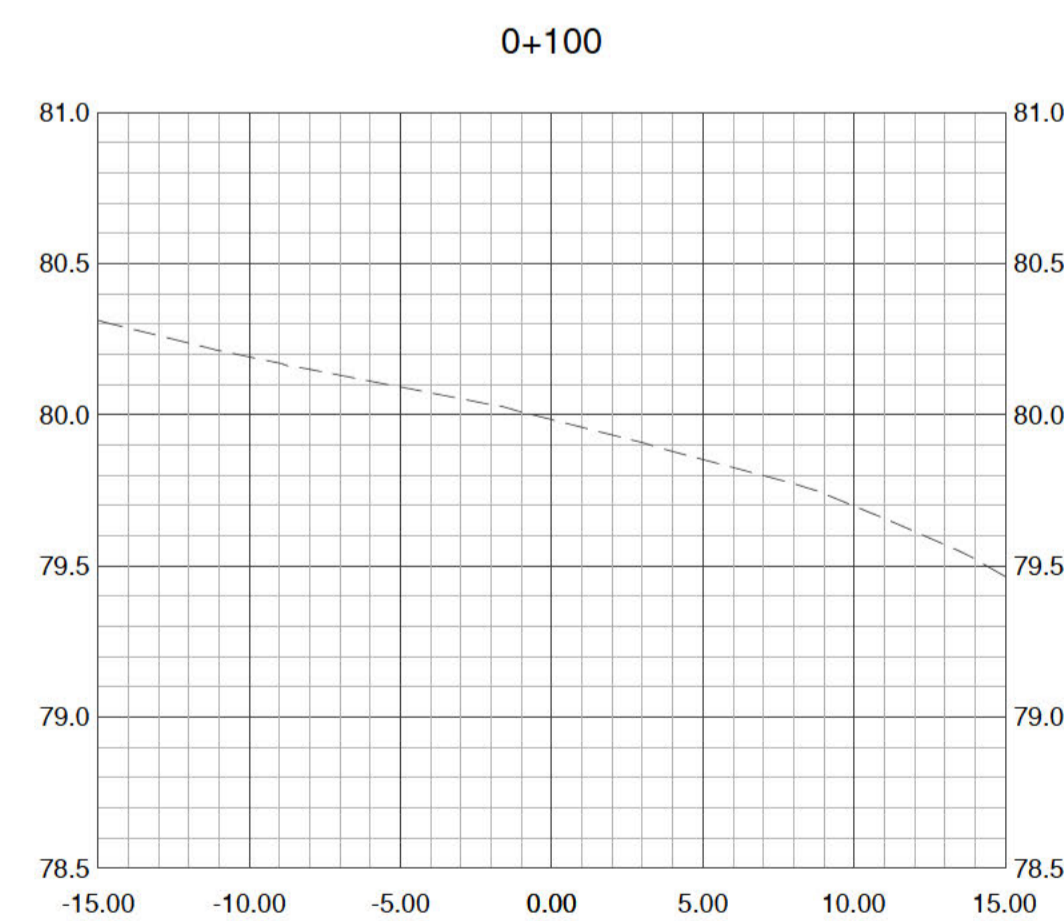
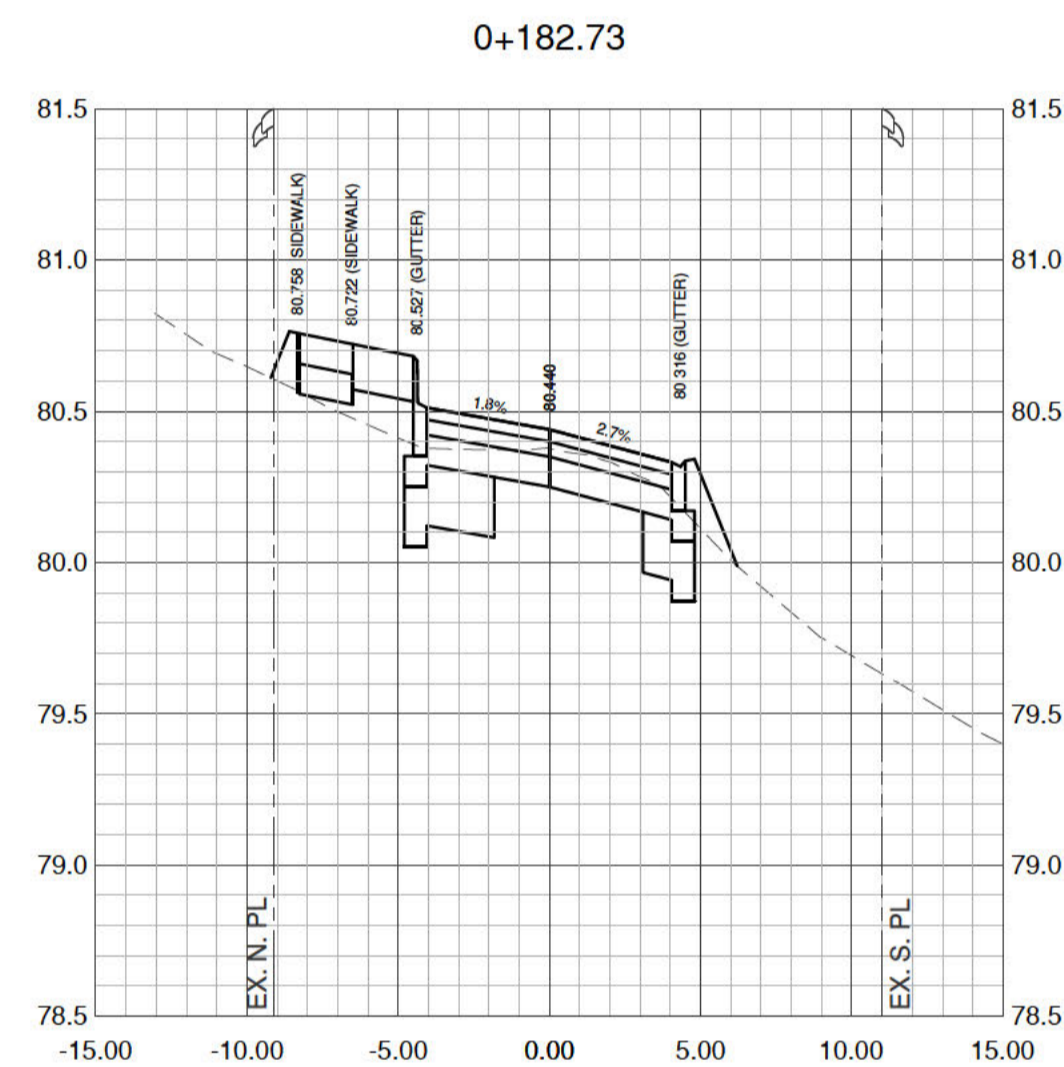
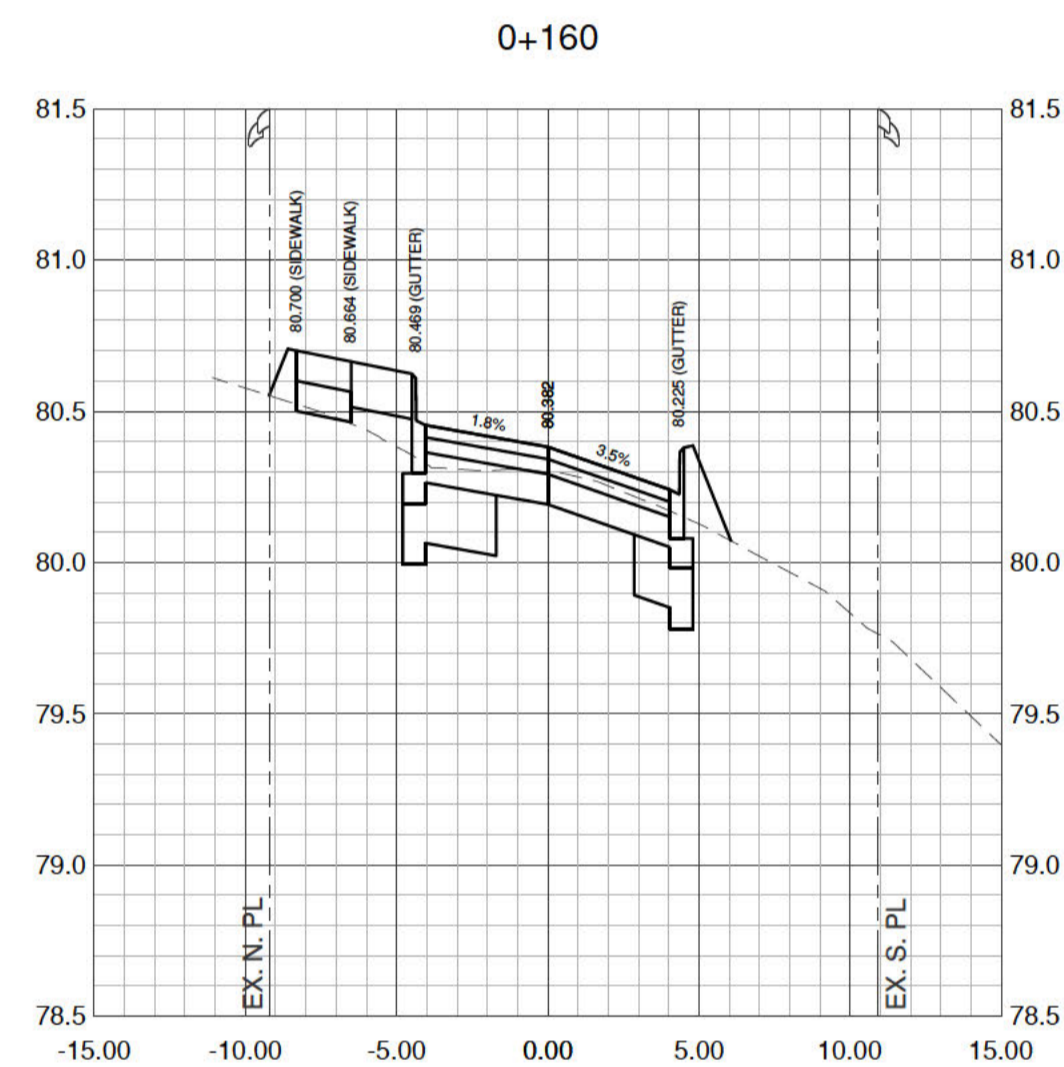
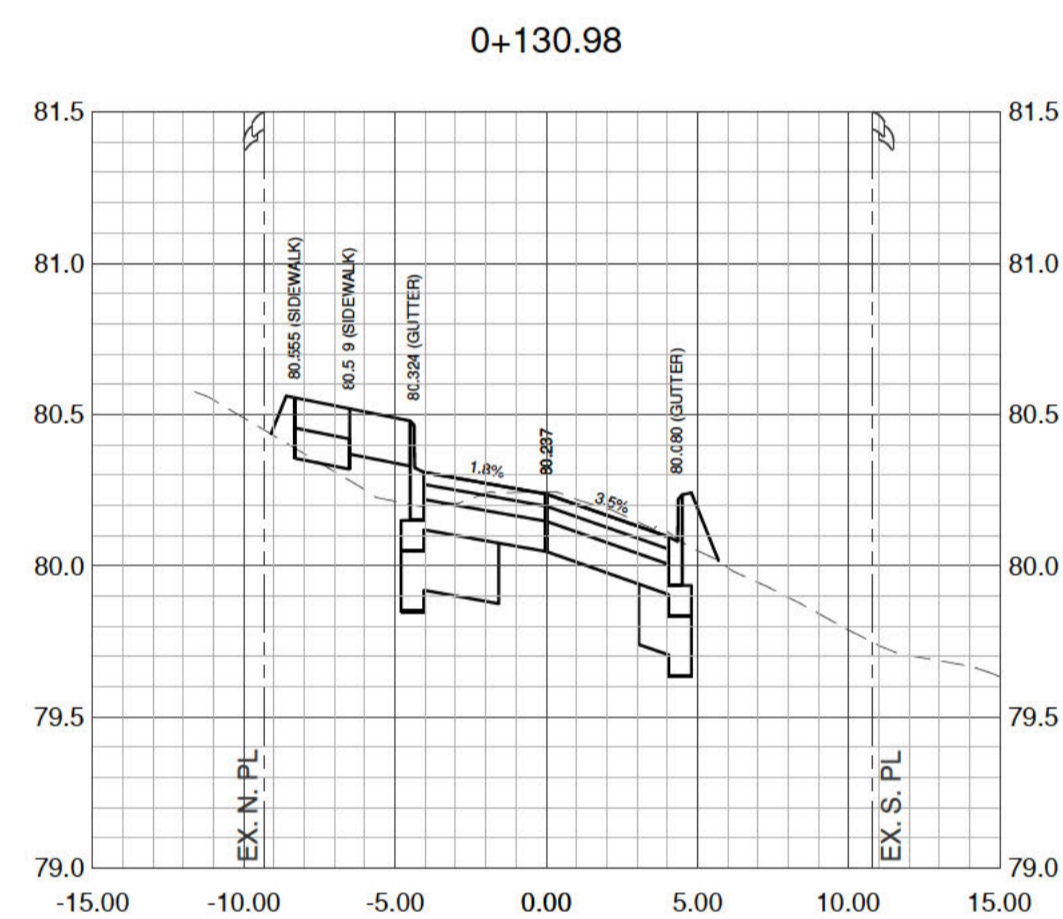
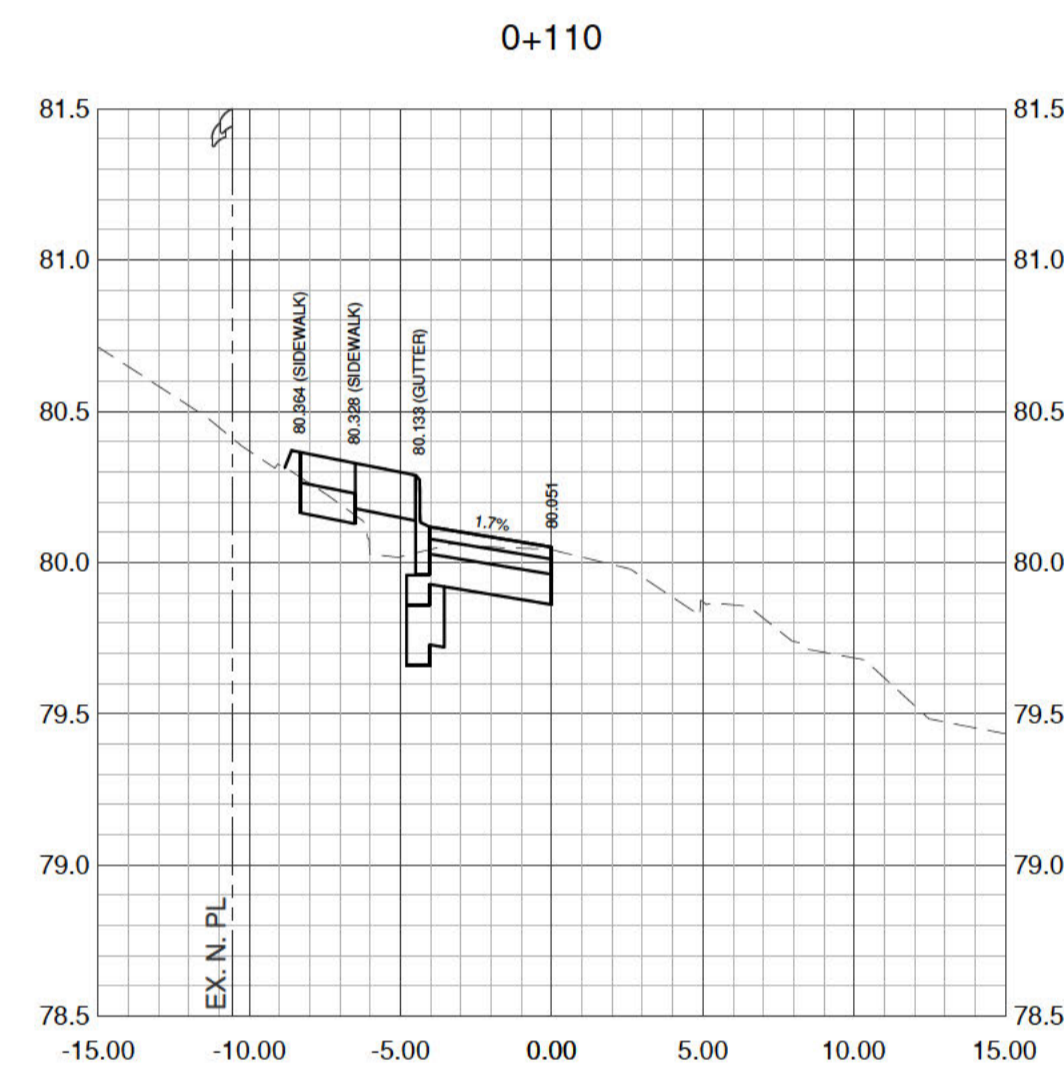
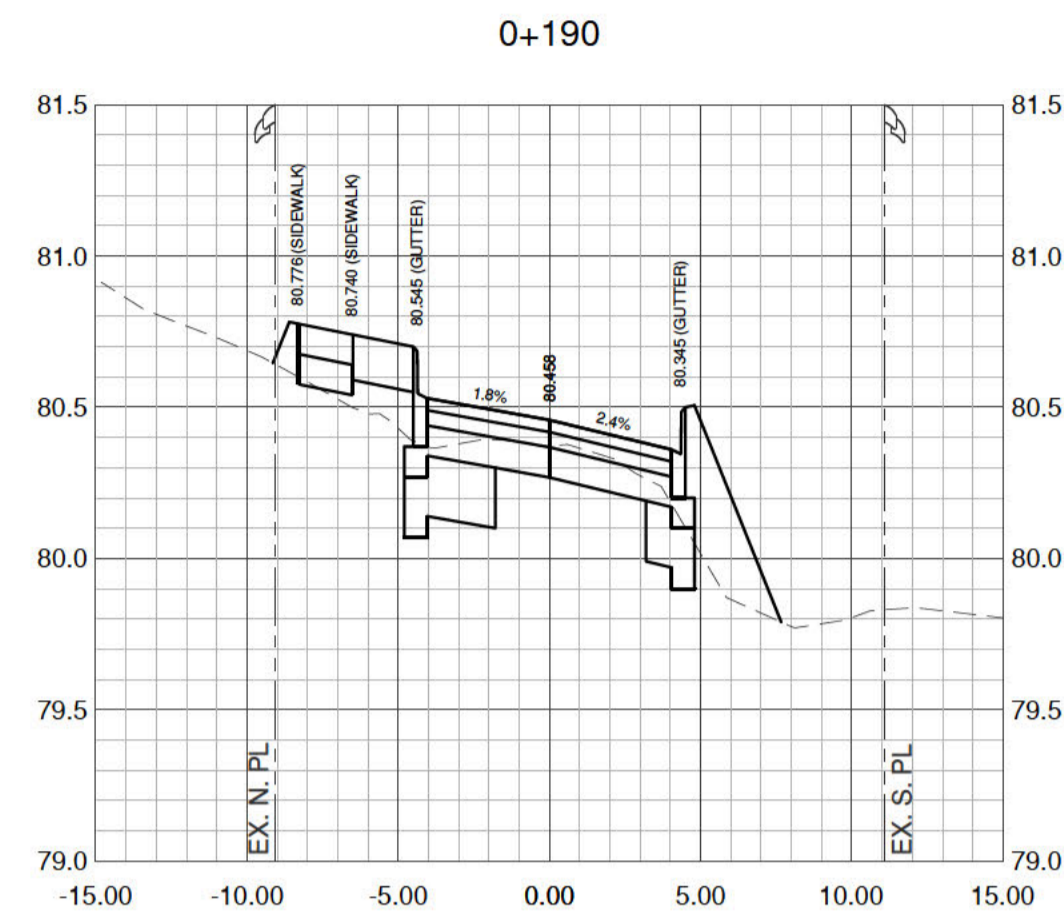
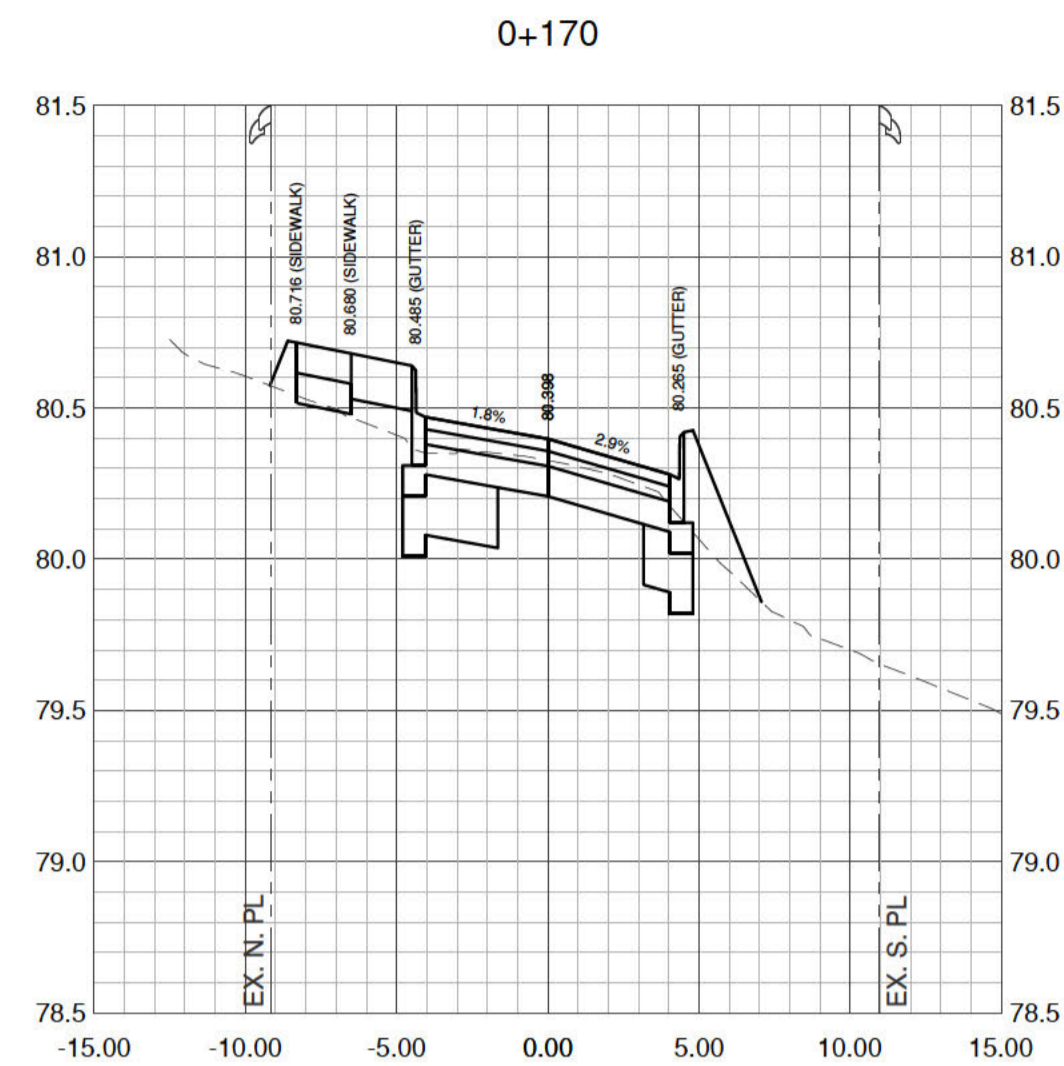
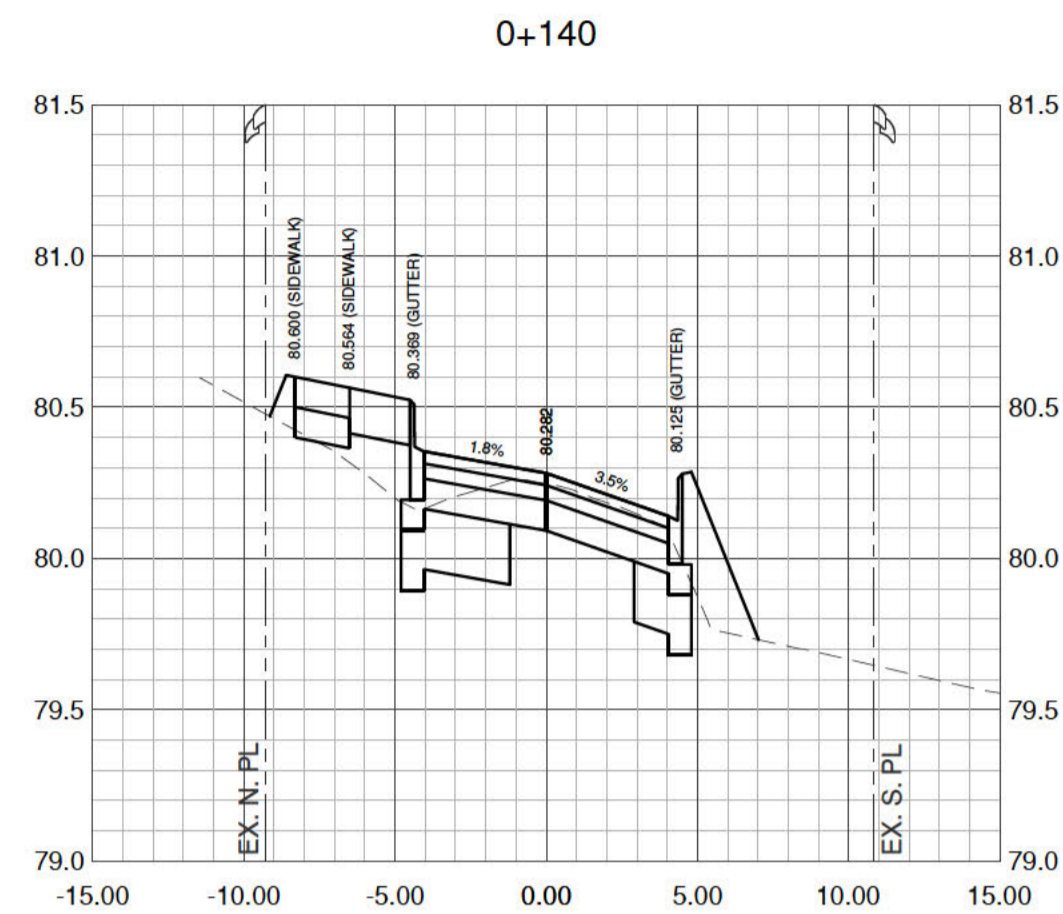
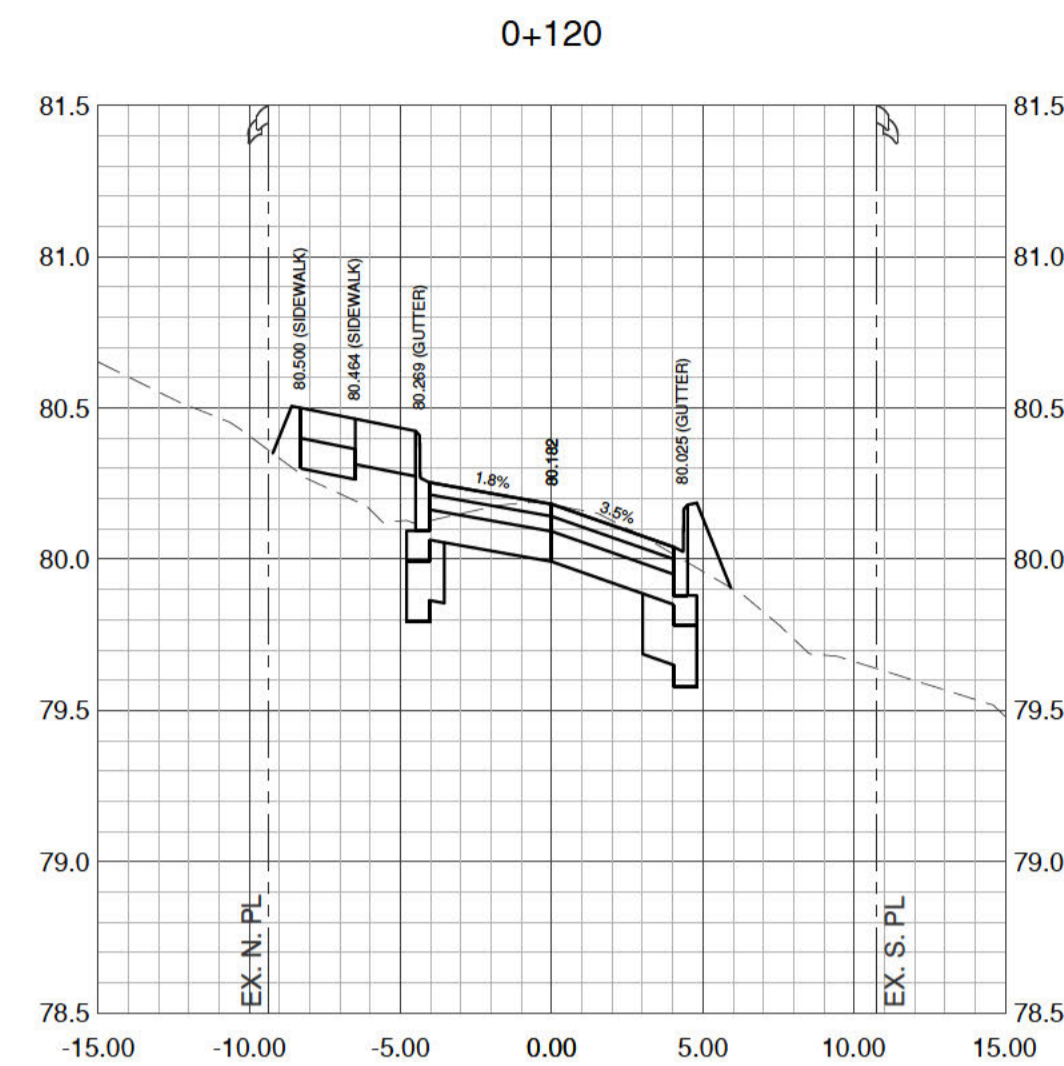
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DATE 2020-06-08
DRAWING No.
20-0063-EL1-1

SHEET 09 **OF** 13 **REV.** 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

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1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

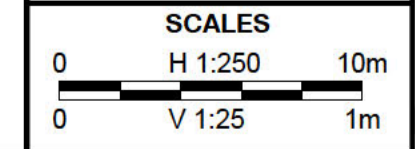


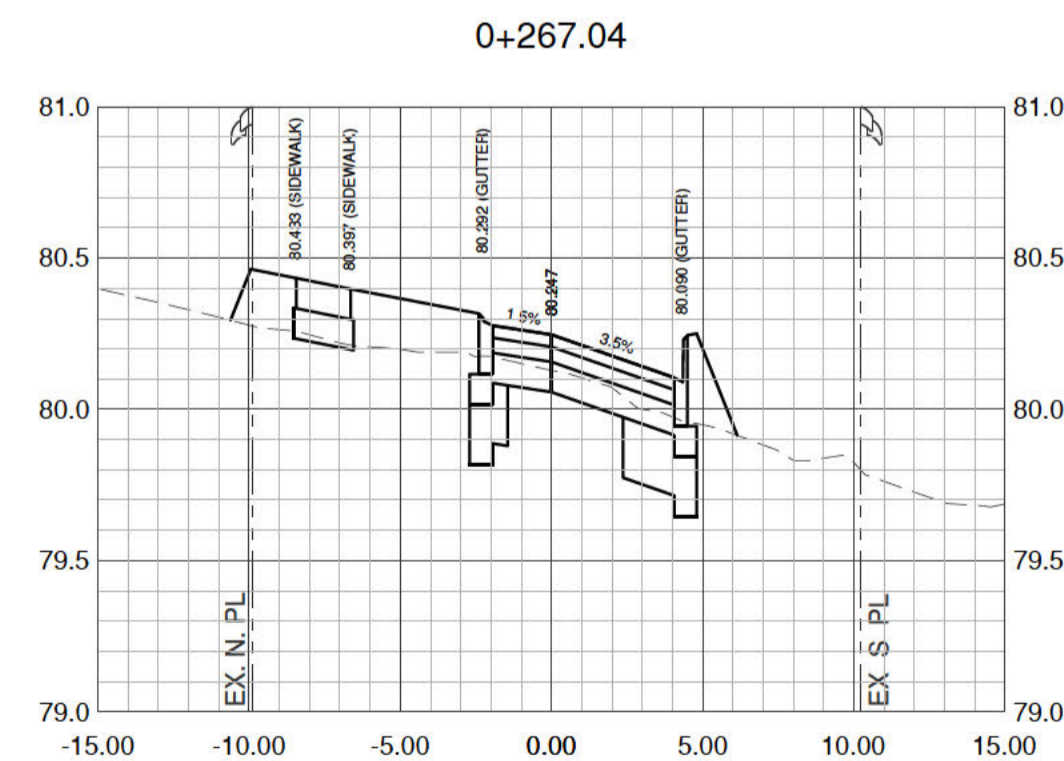
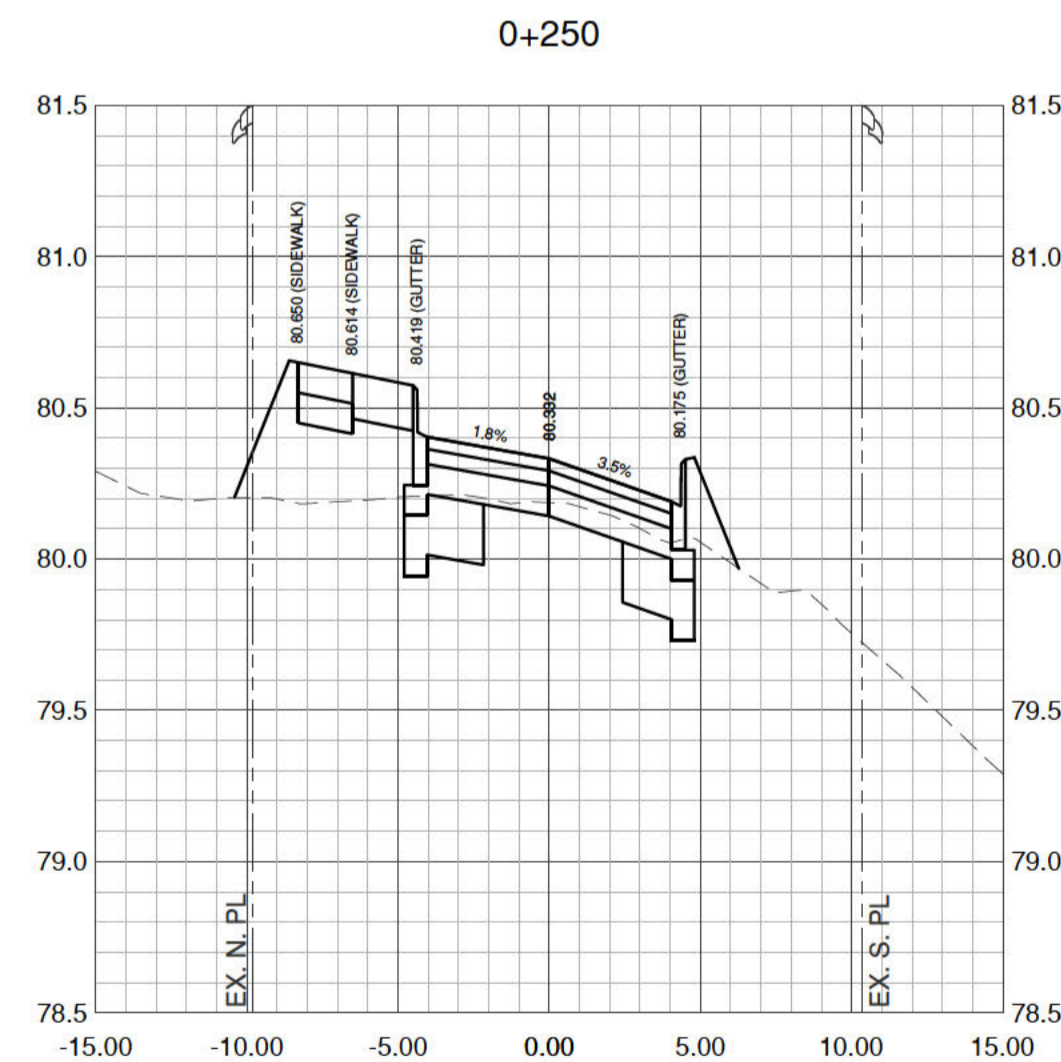
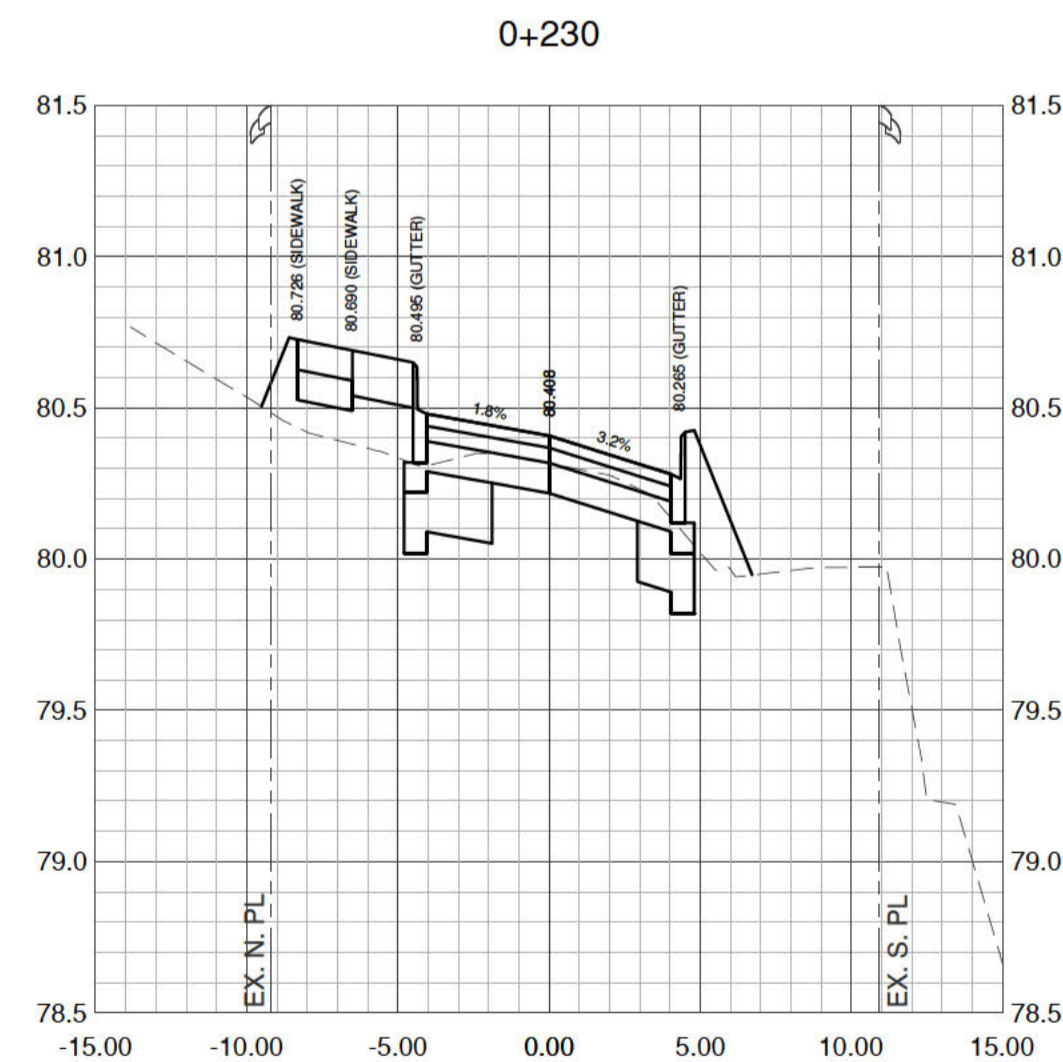
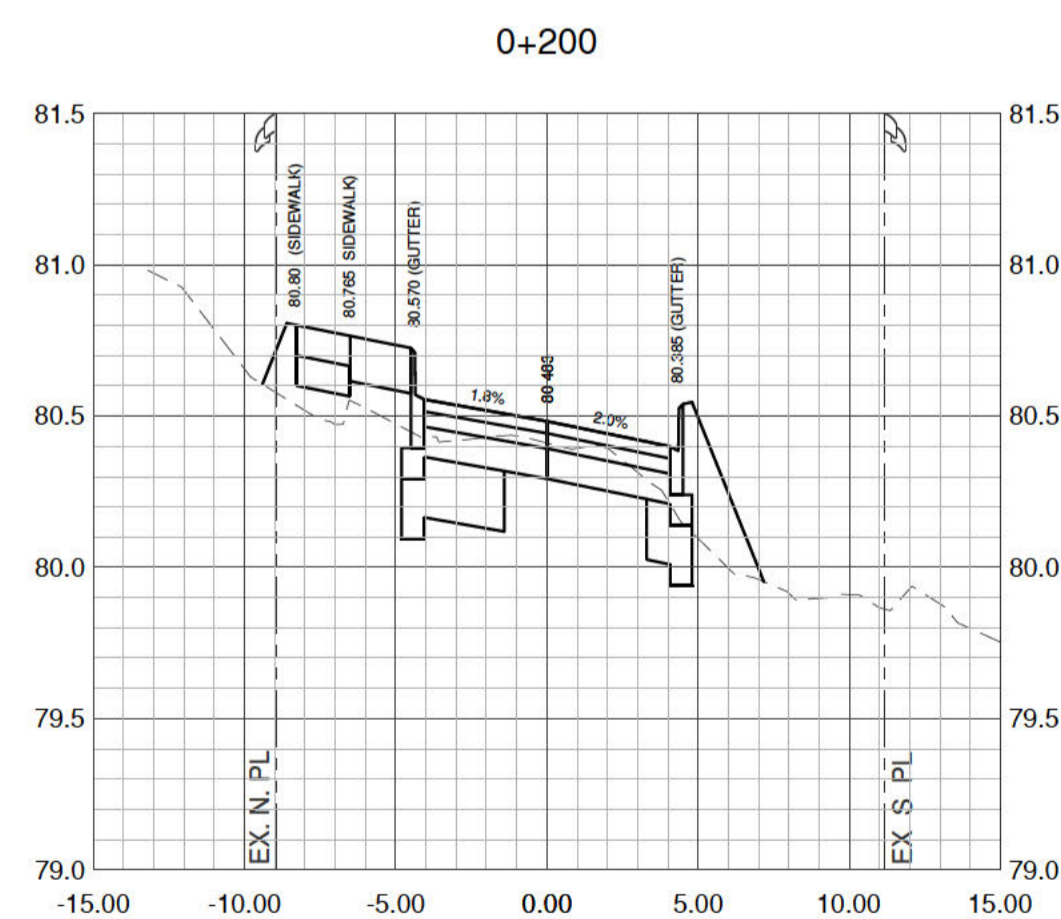
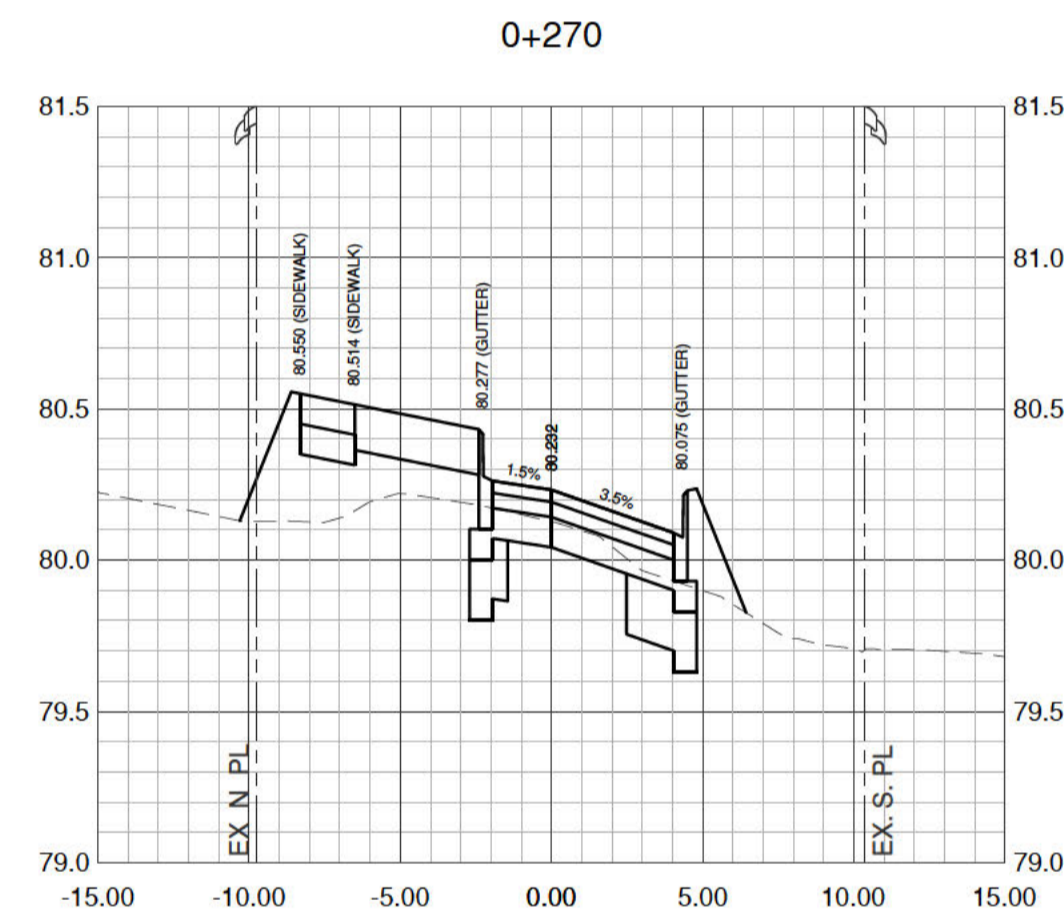
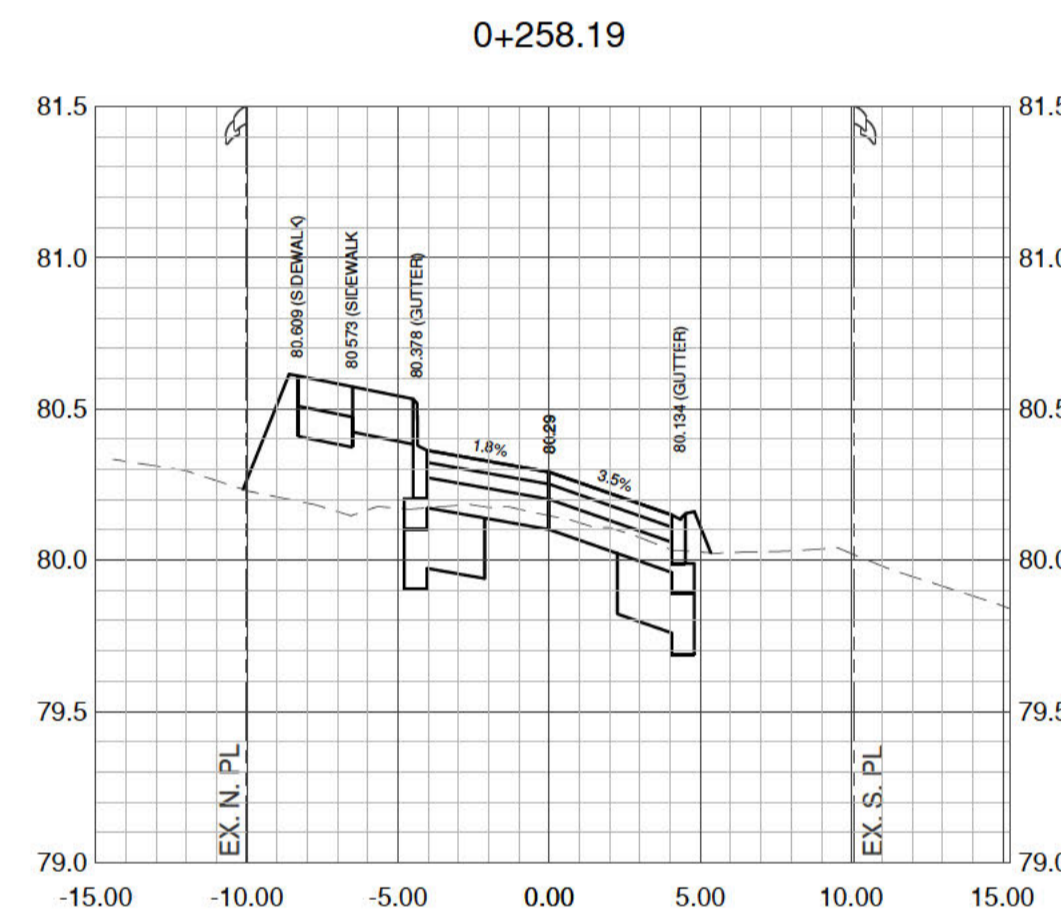
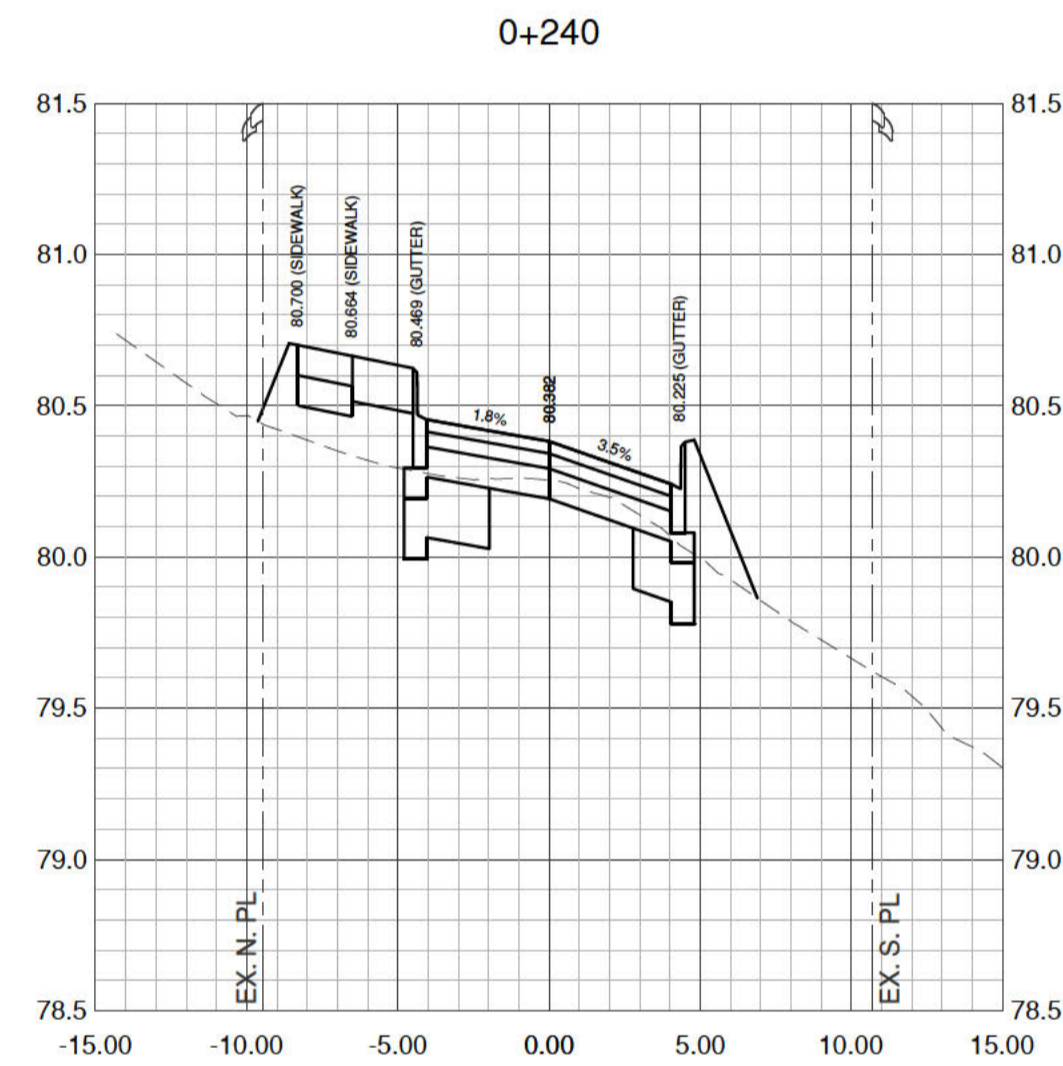
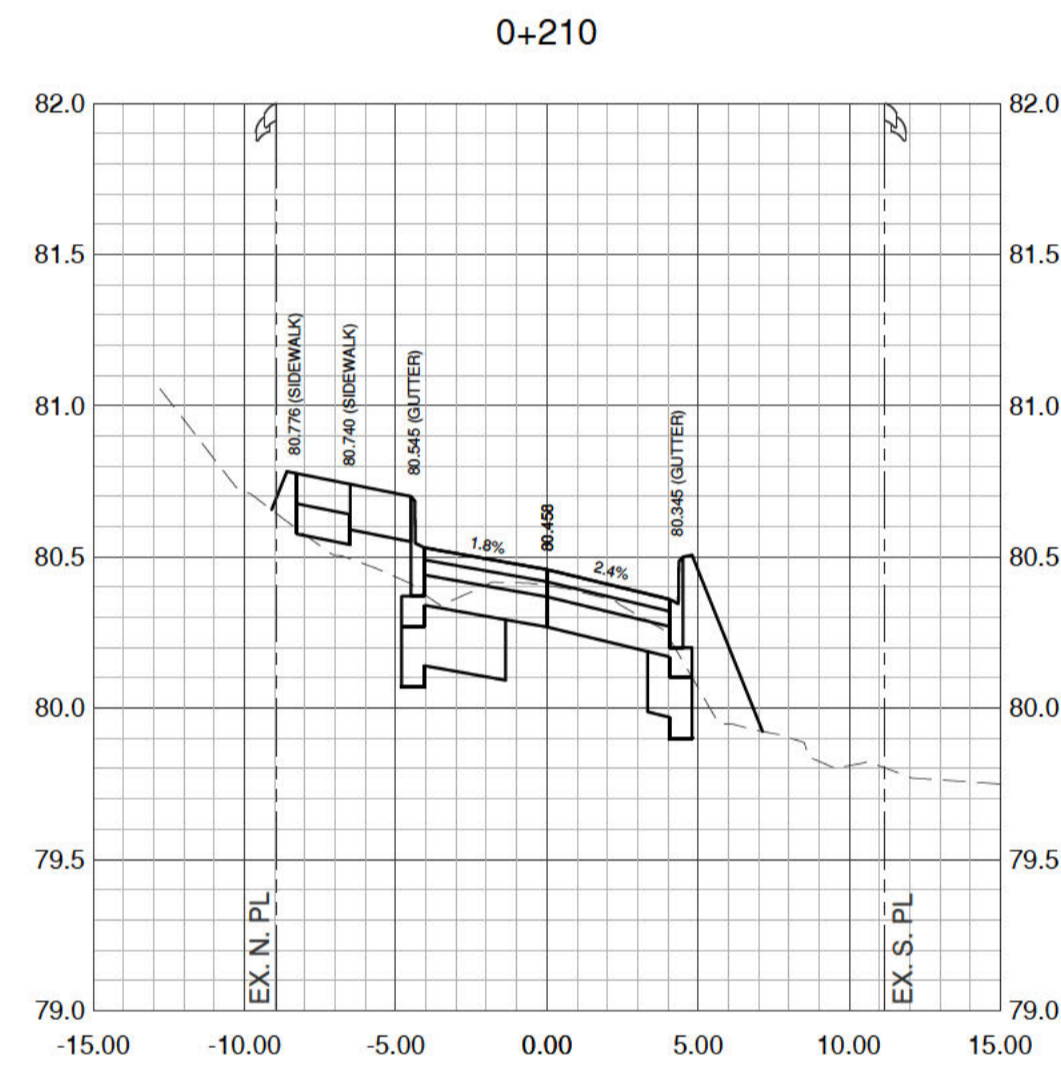
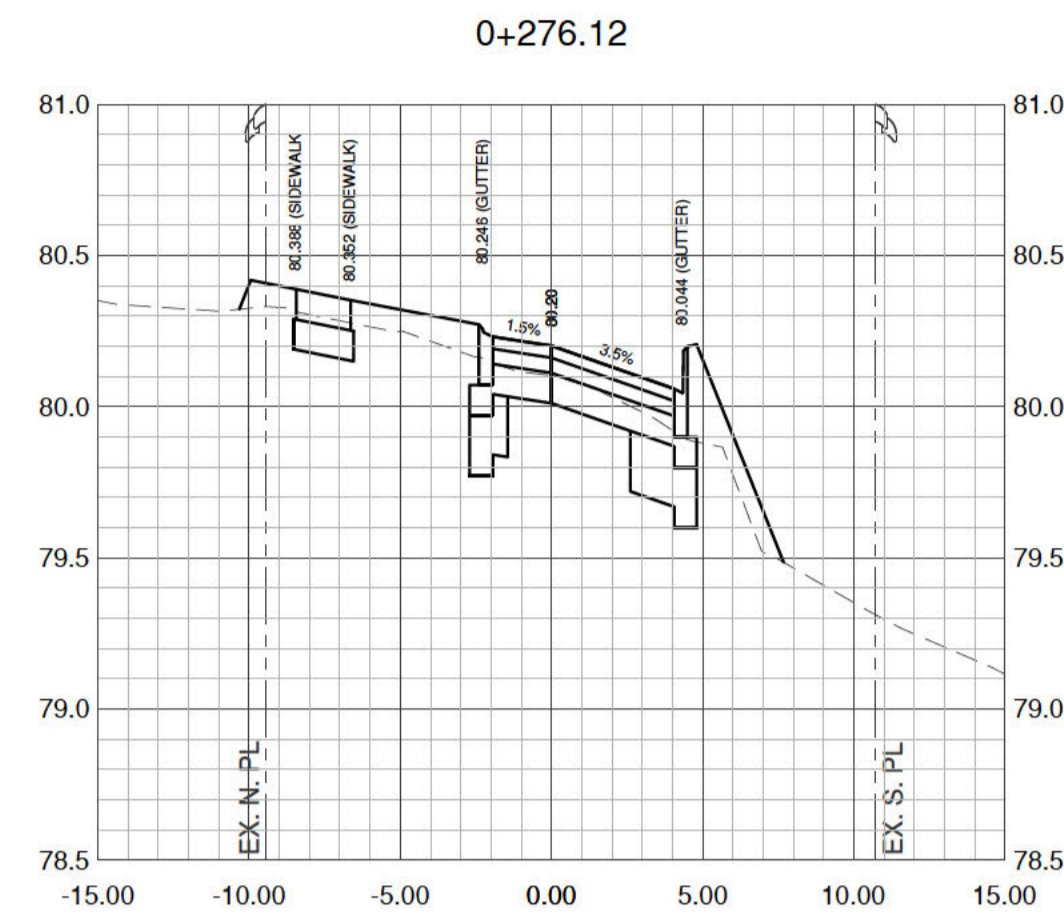
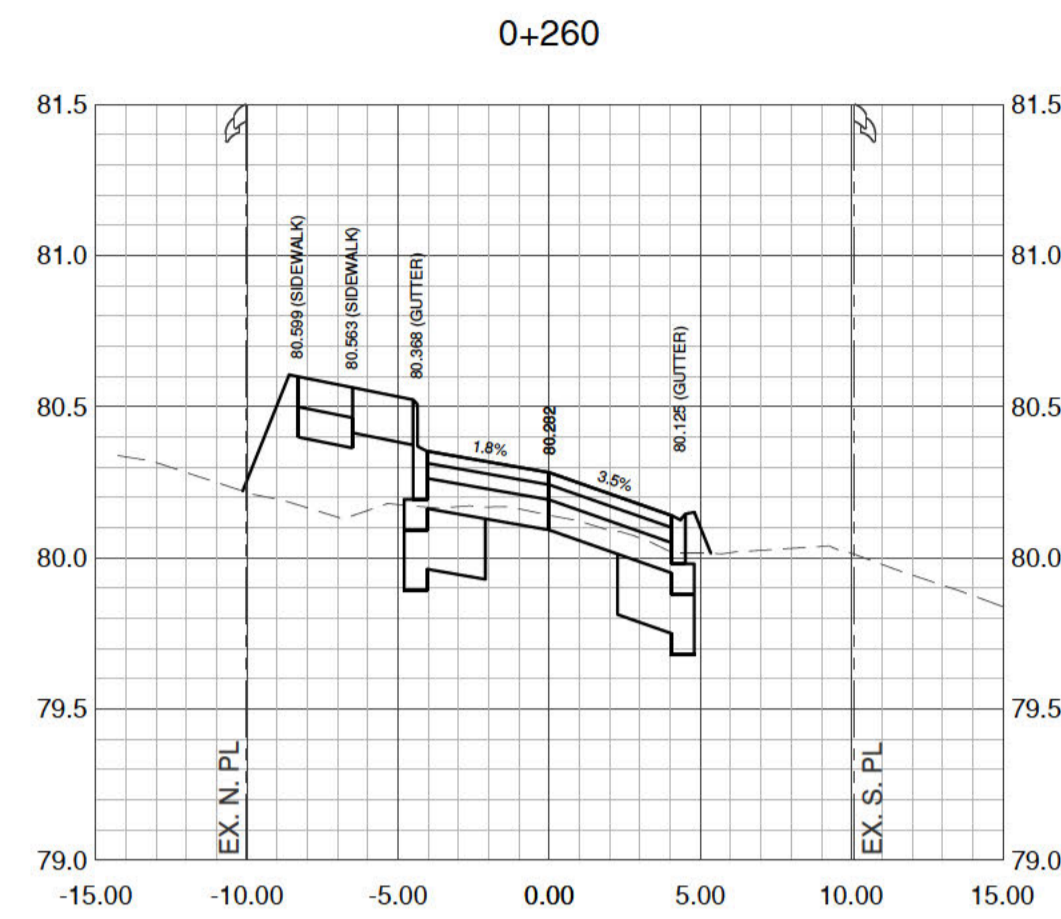
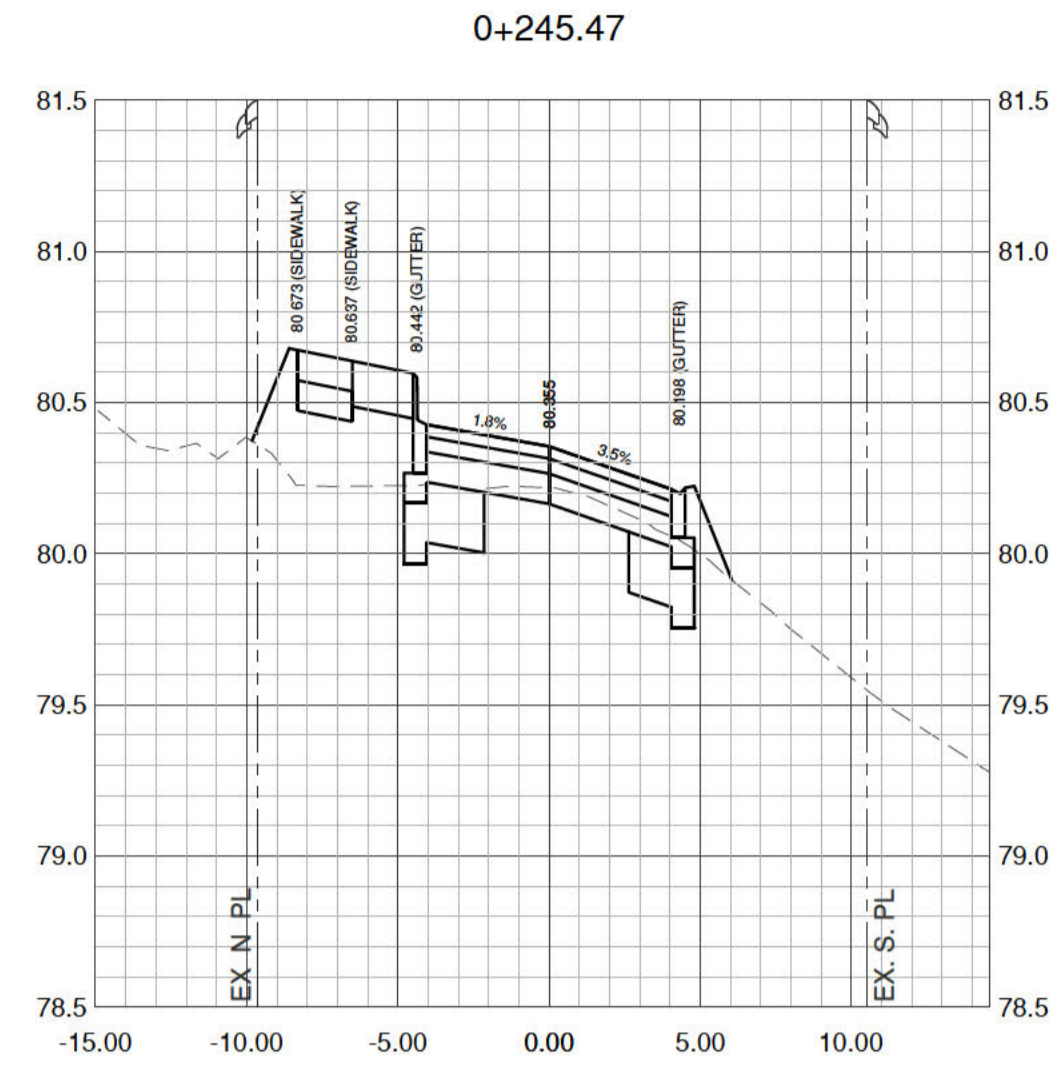
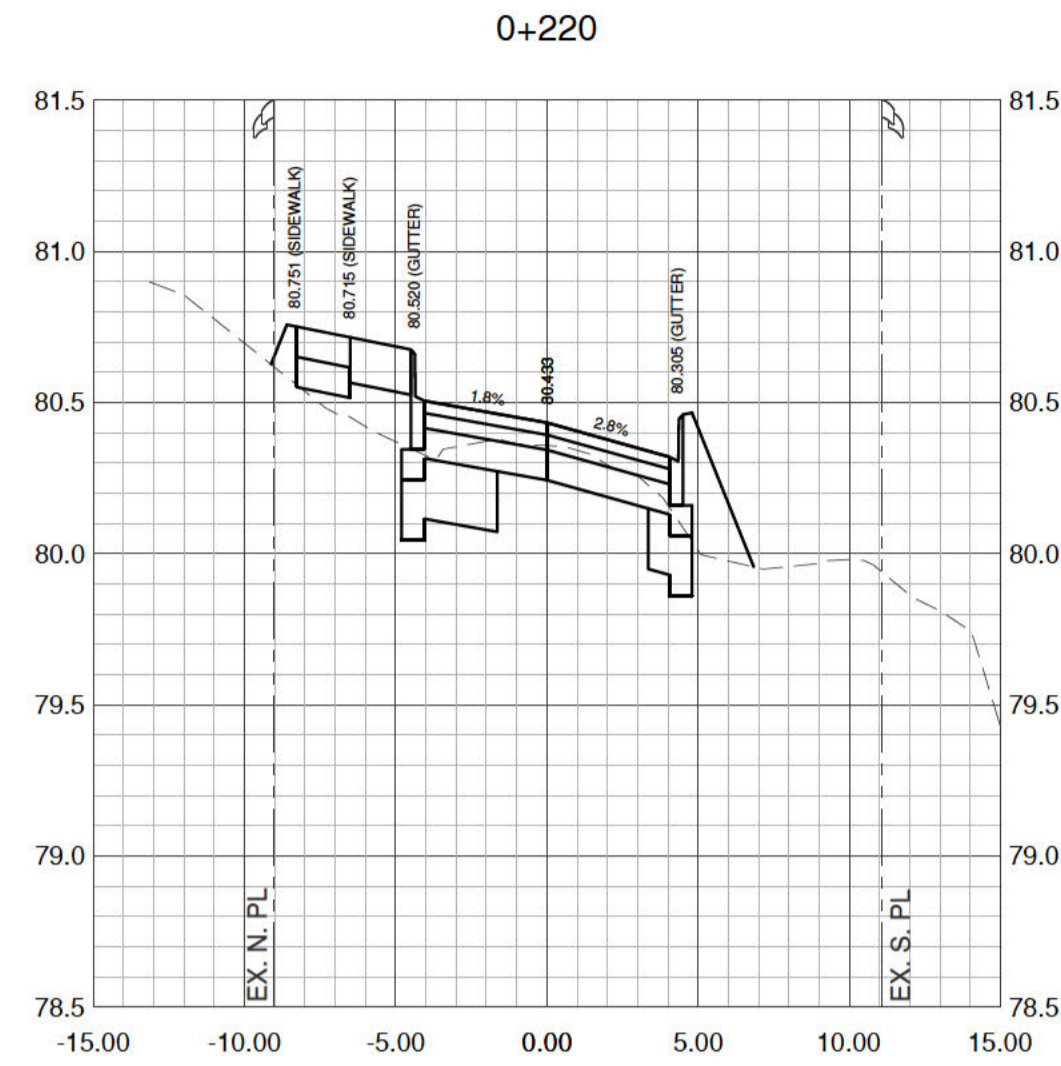
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CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET CROSS SECTIONS

SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	RANM
CHECKED BY	RA

DATE	2020-01-28
DRAWING No.	20-0063-XS1-1
SHEET	10 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	





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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

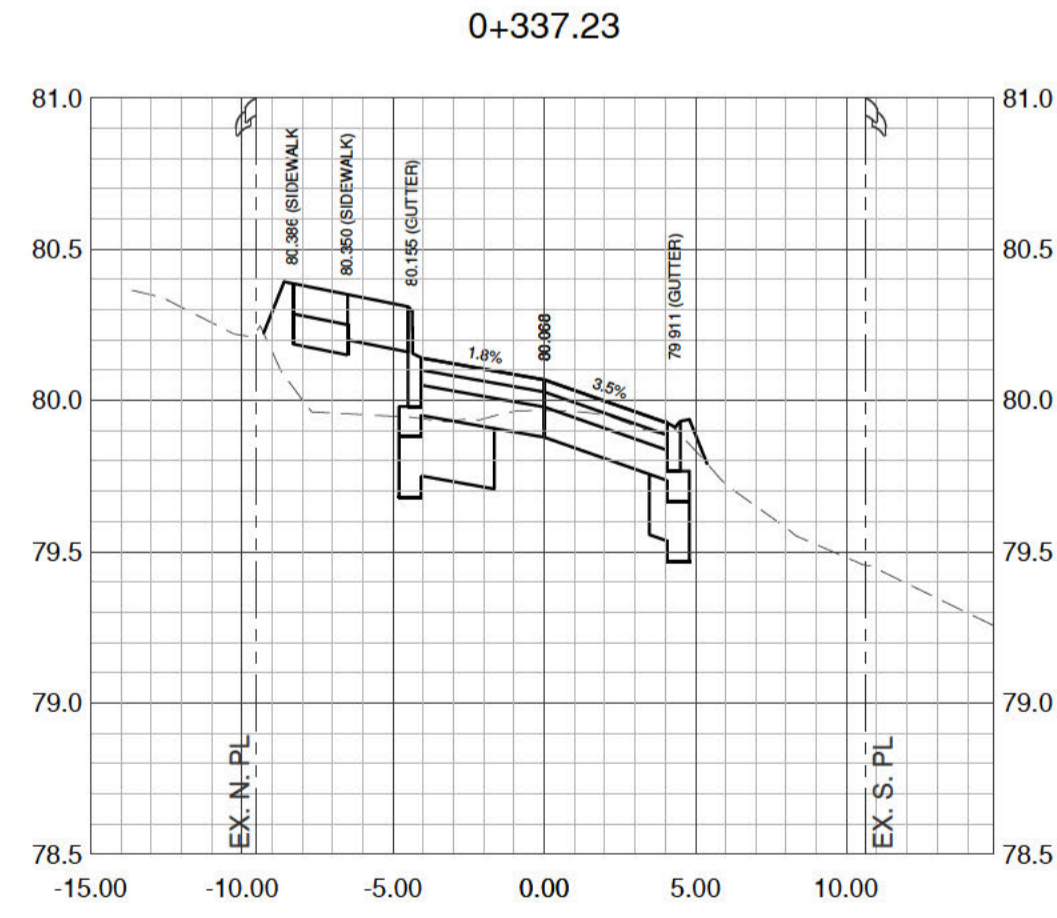
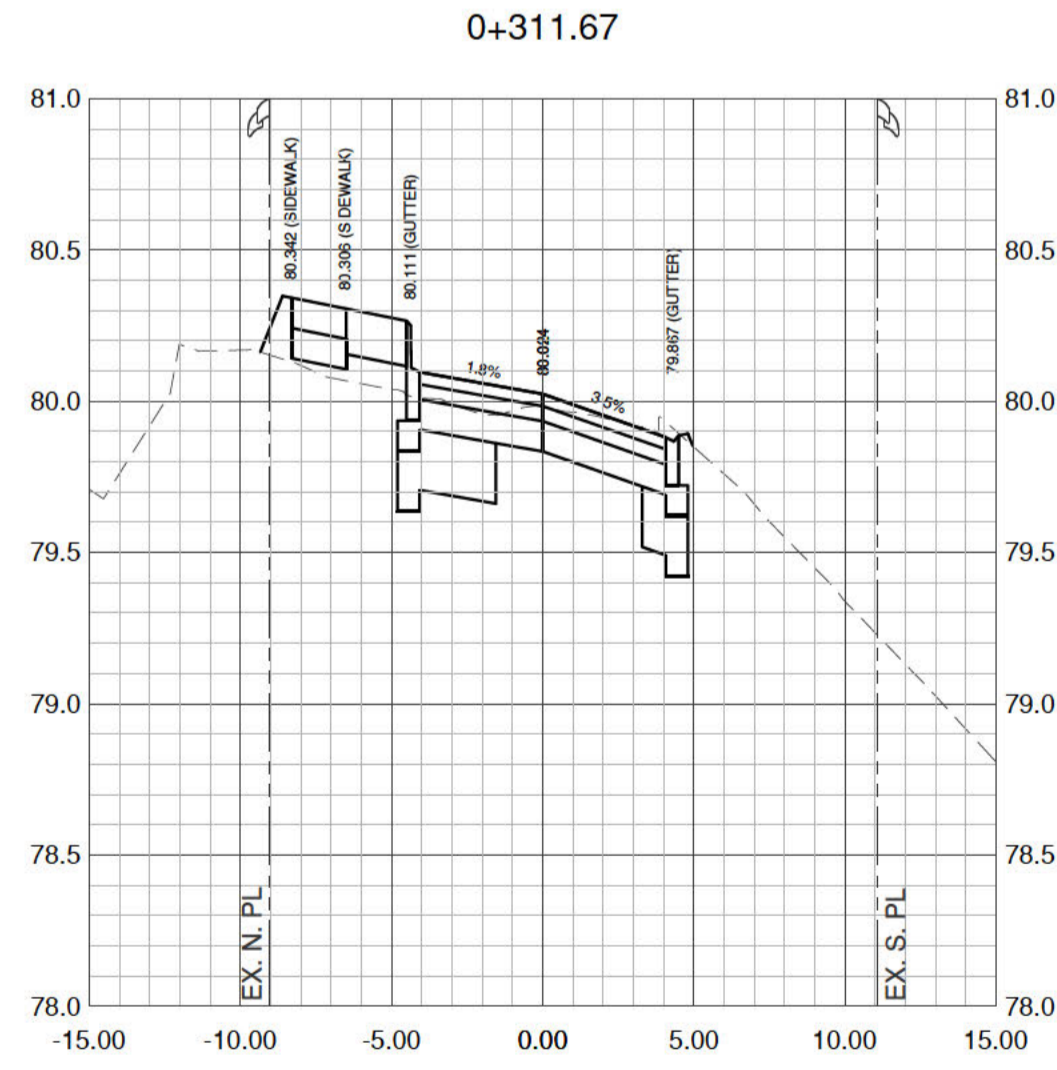
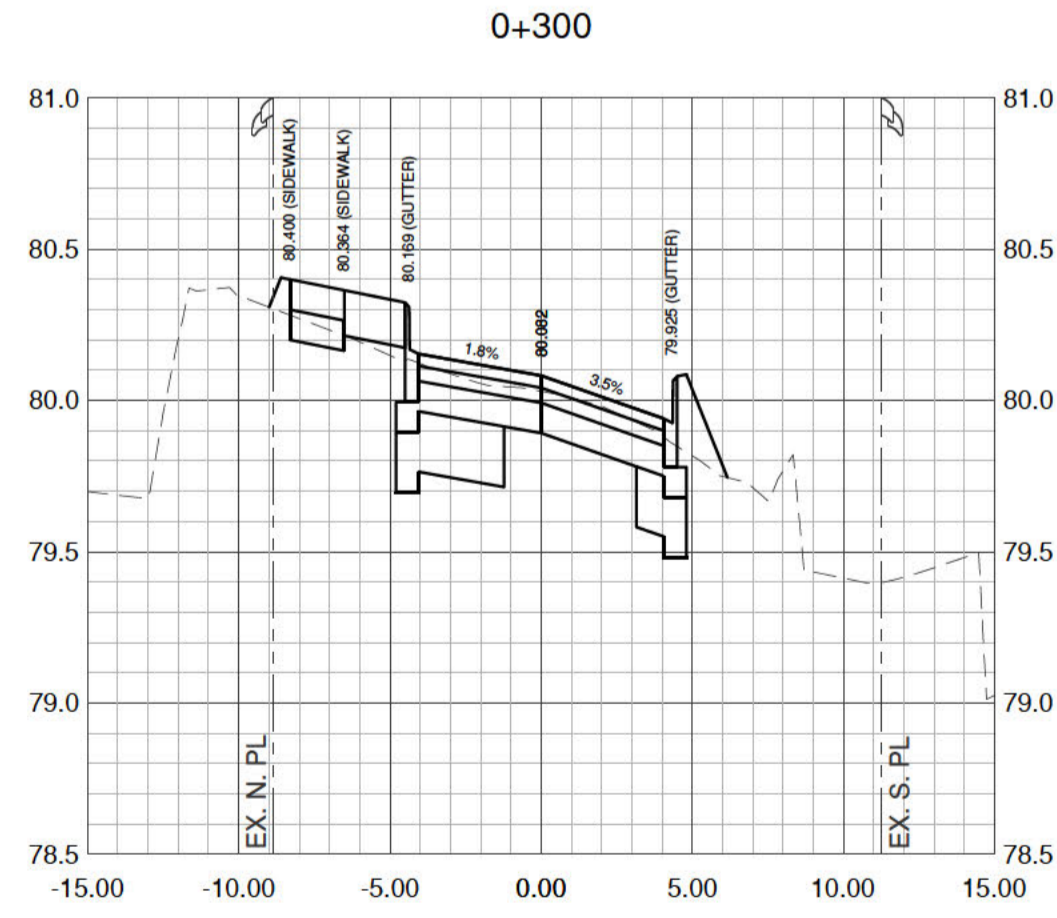
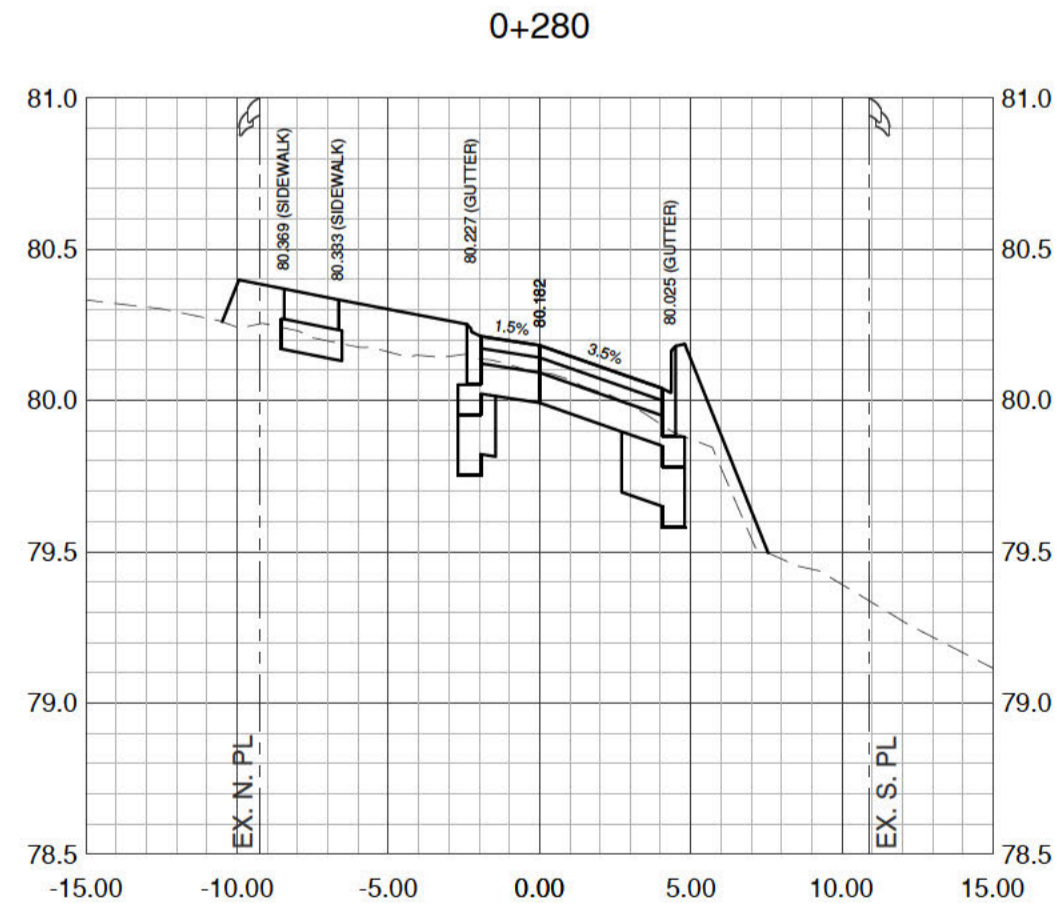
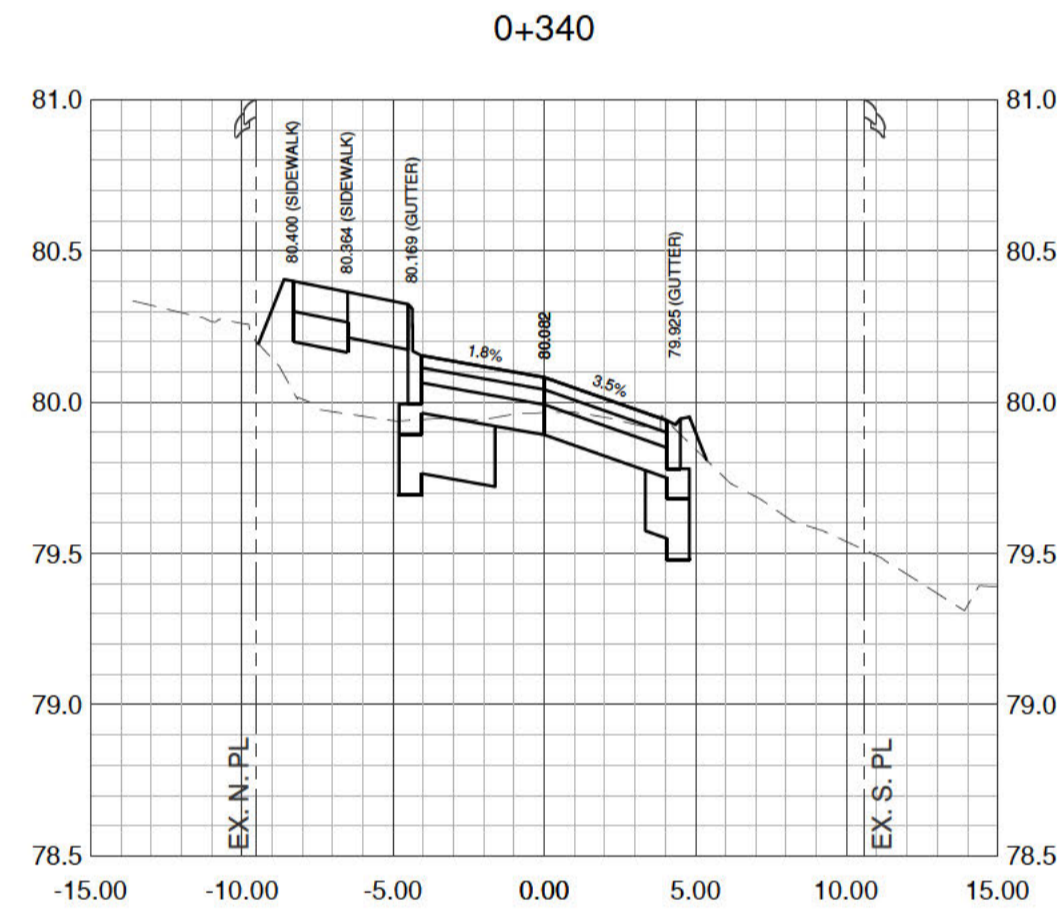
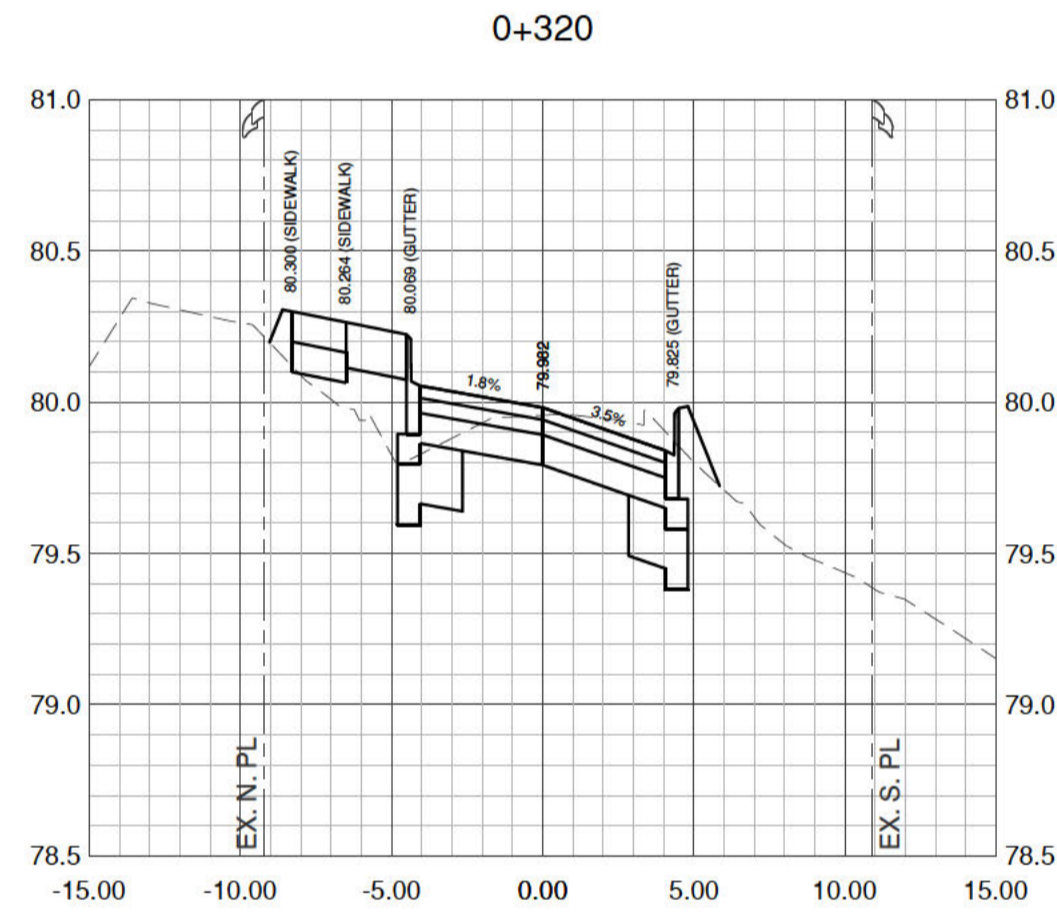
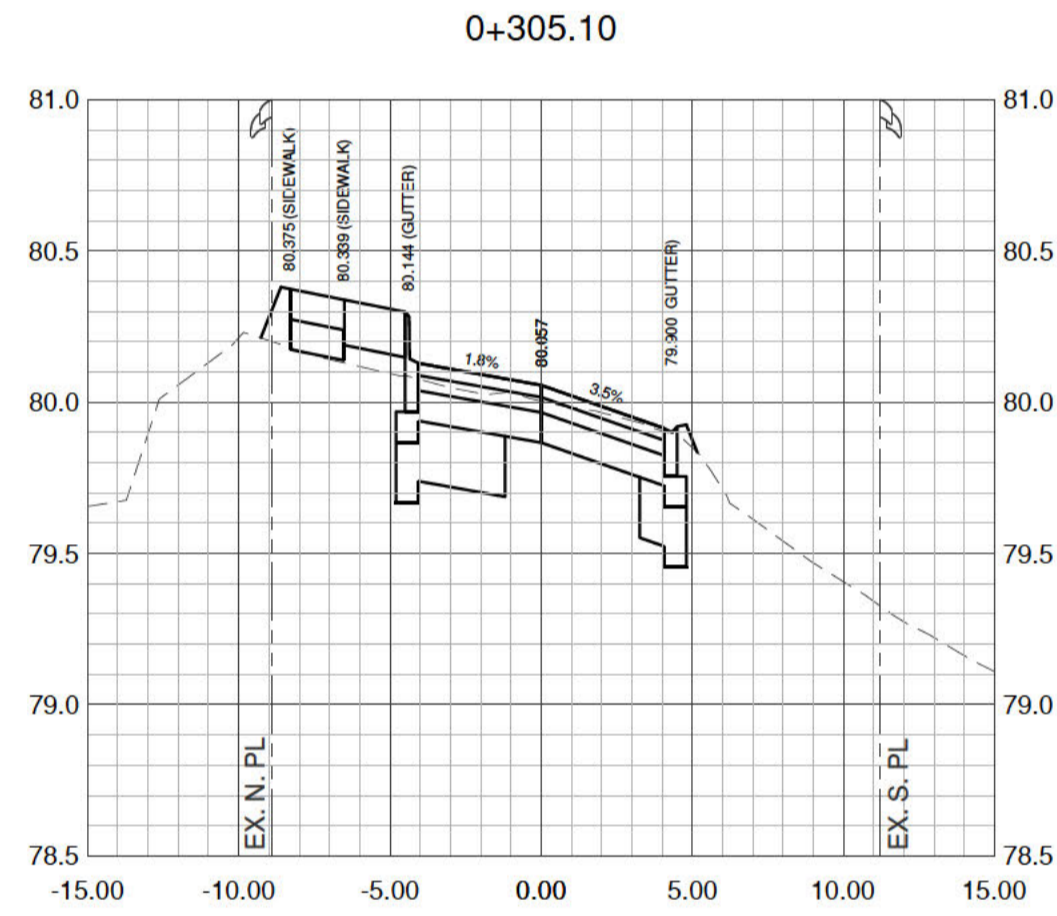
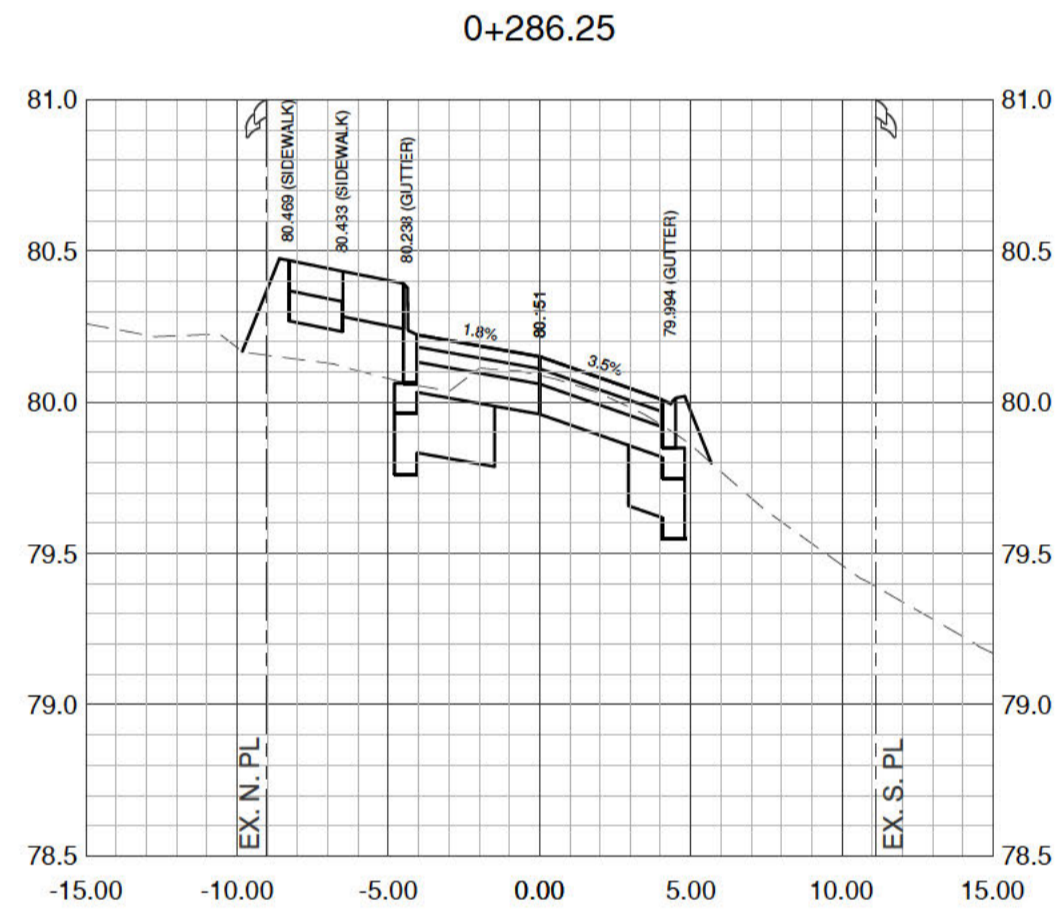
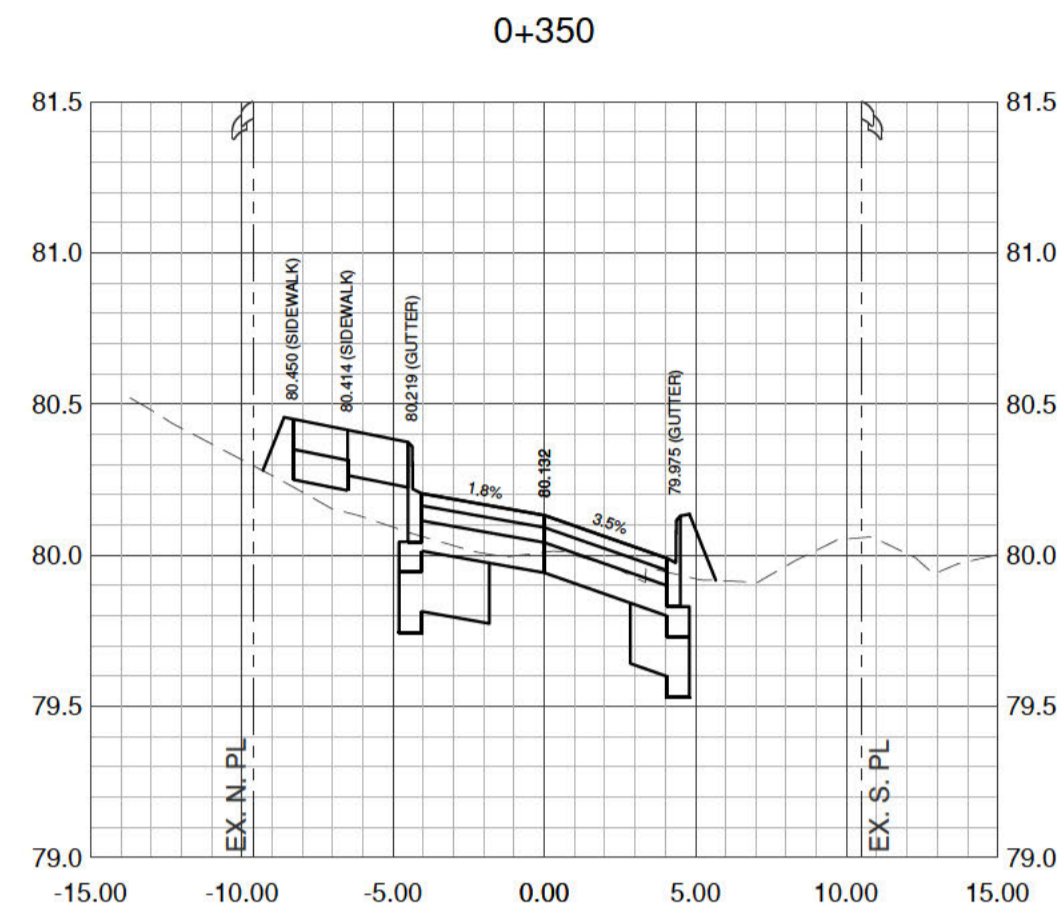
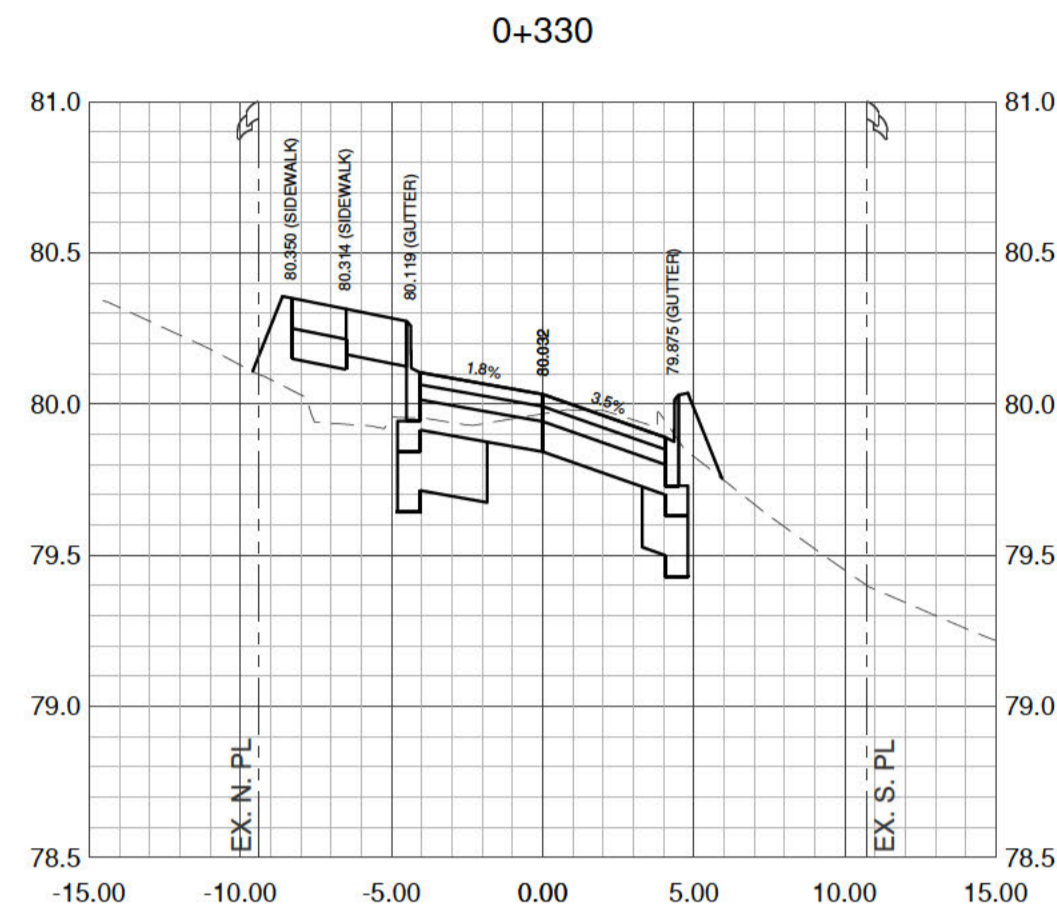
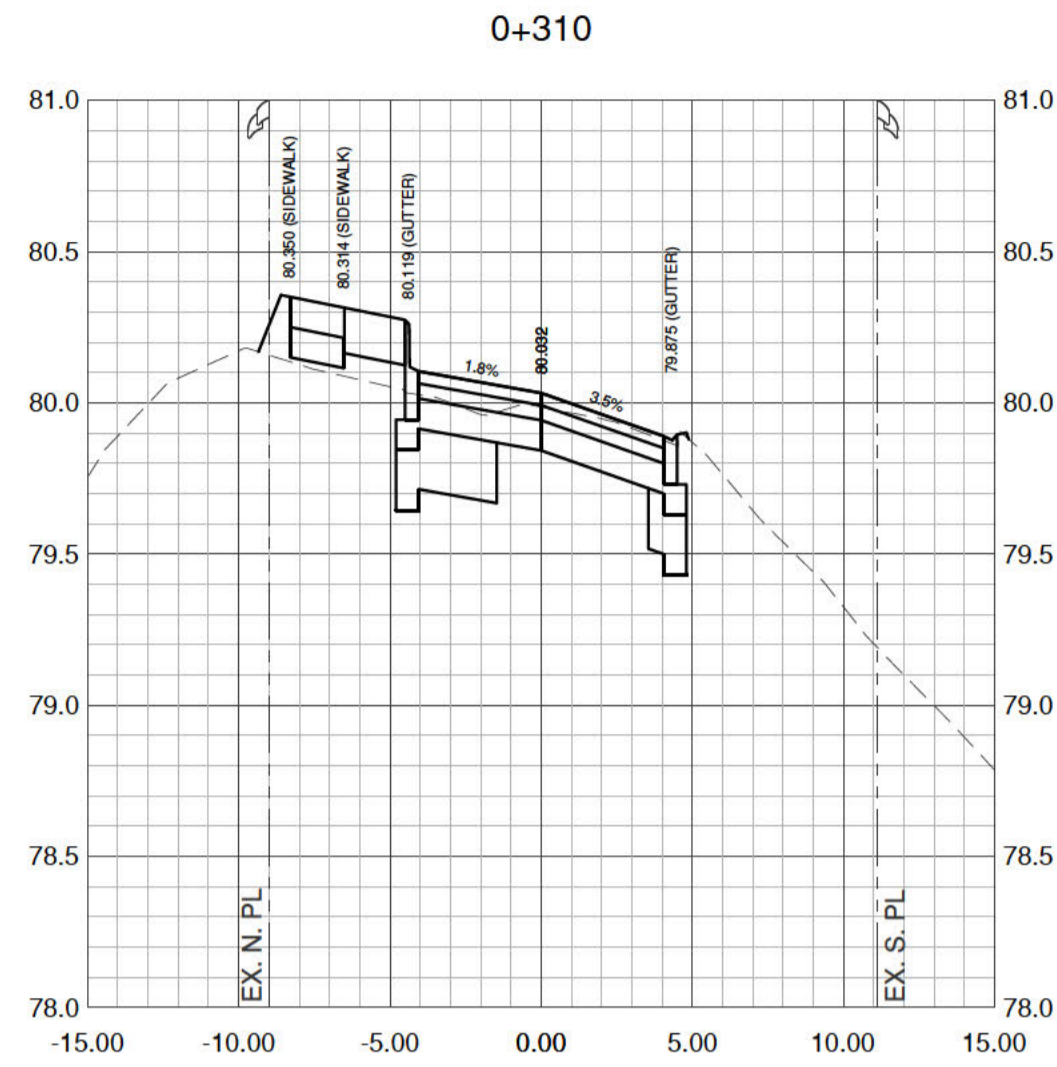
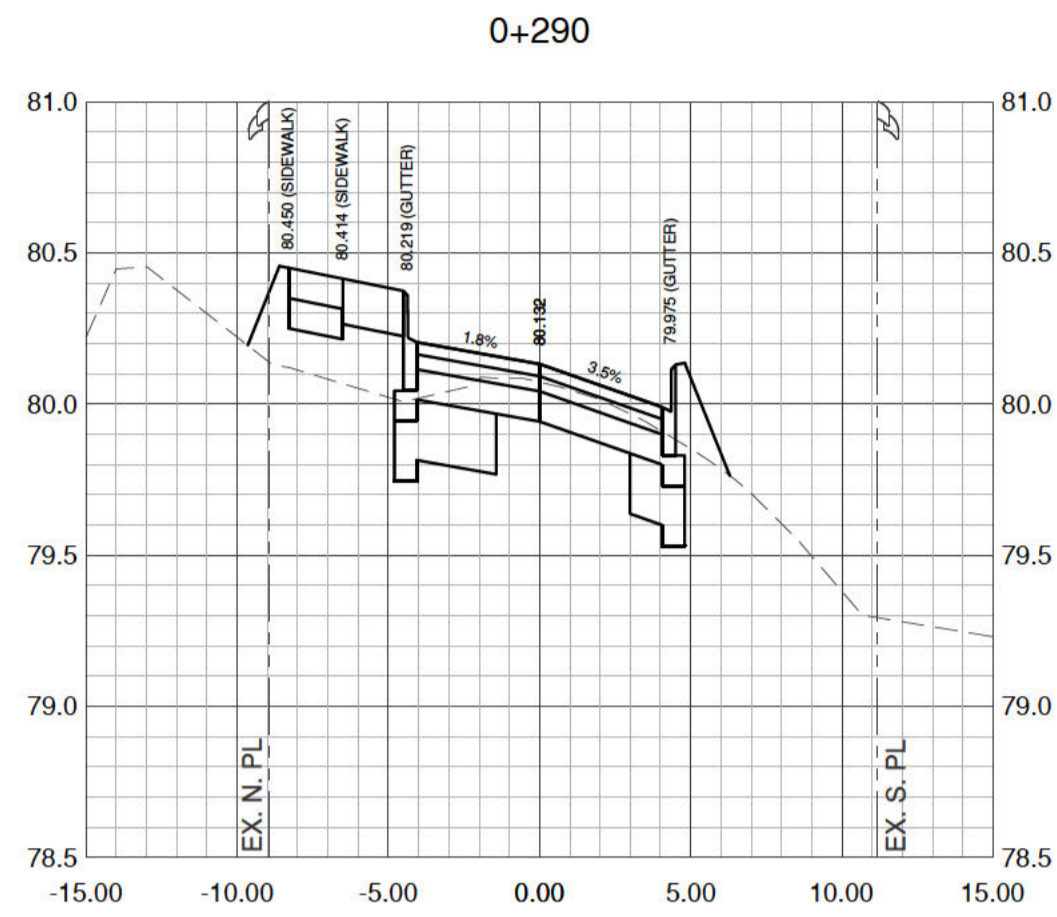
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DESIGNED BY RANM
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DATE 2020-01-28
DRAWING No.
20-0063-XS1-2

SHEET 11 OF 13
REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.



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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

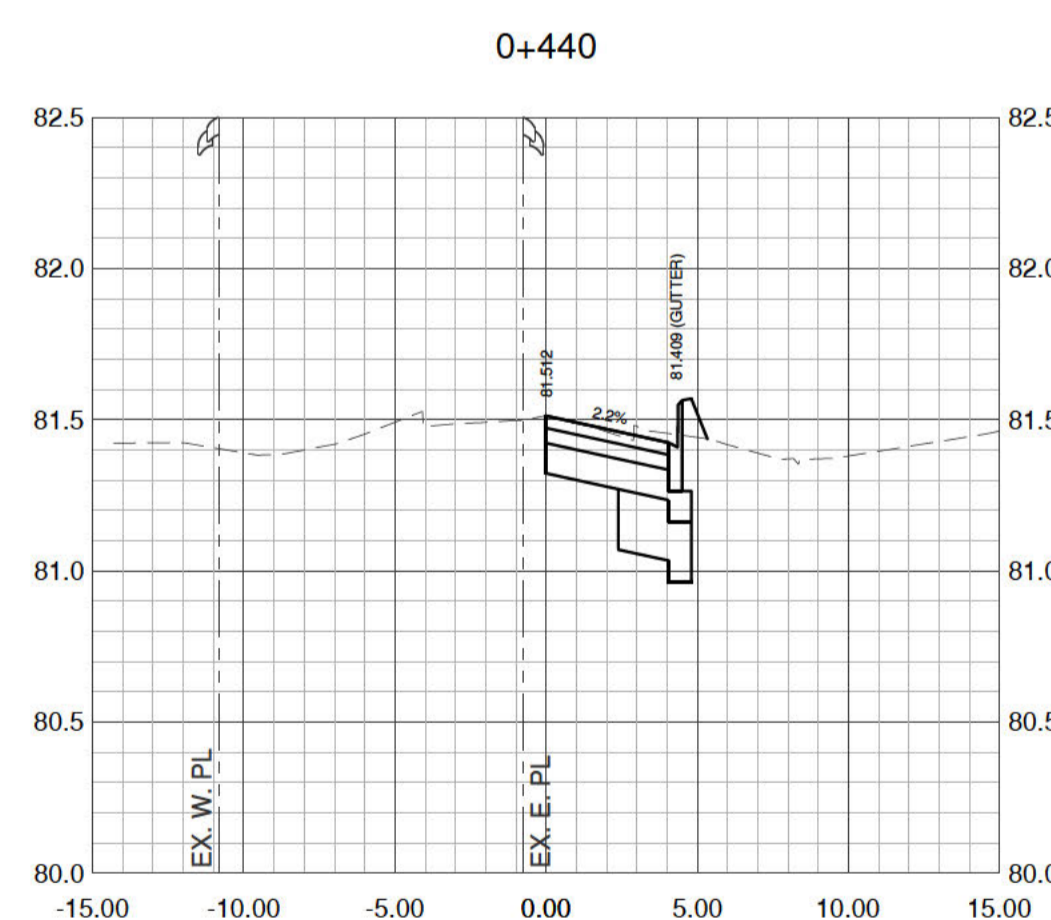
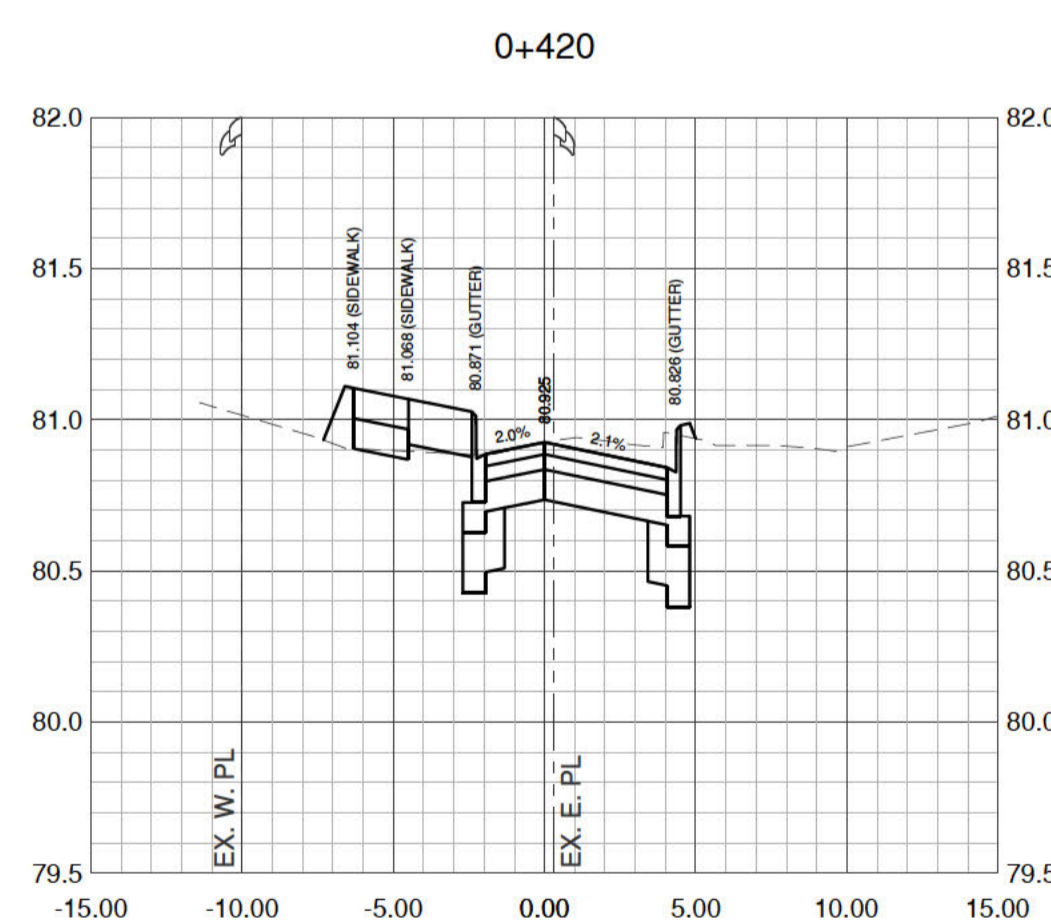
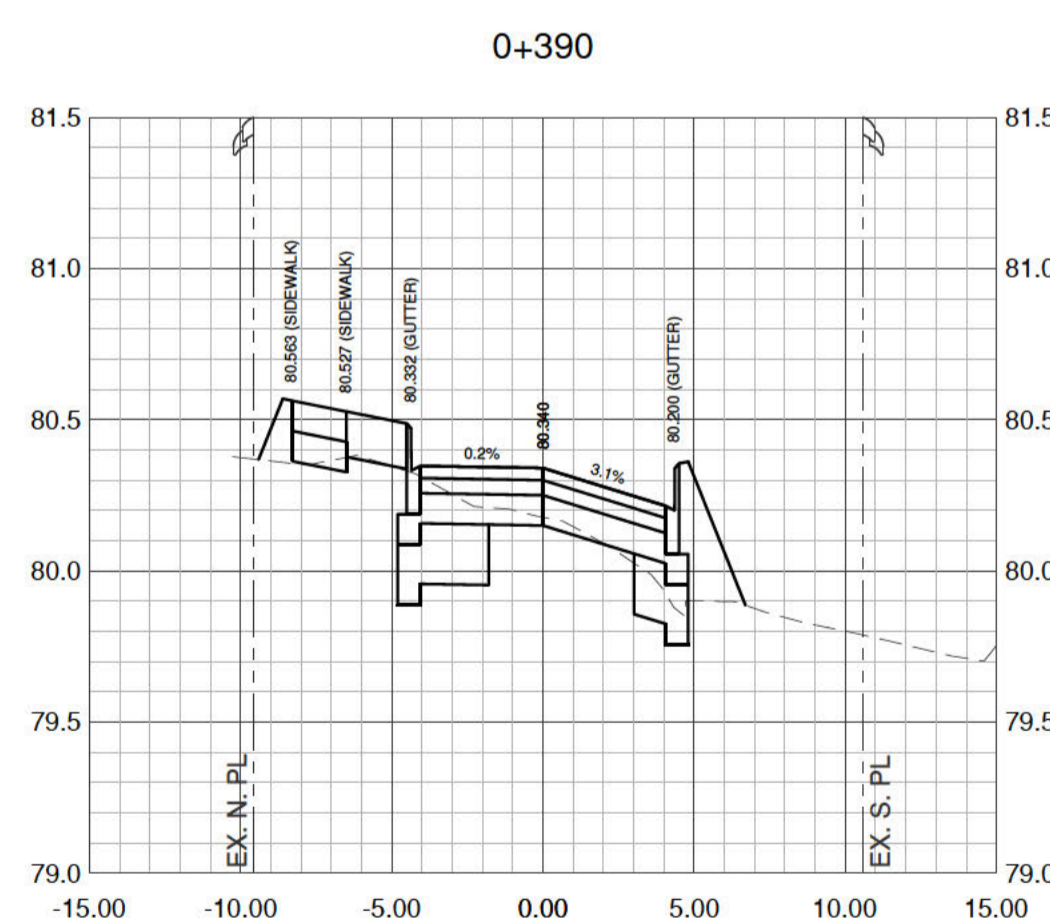
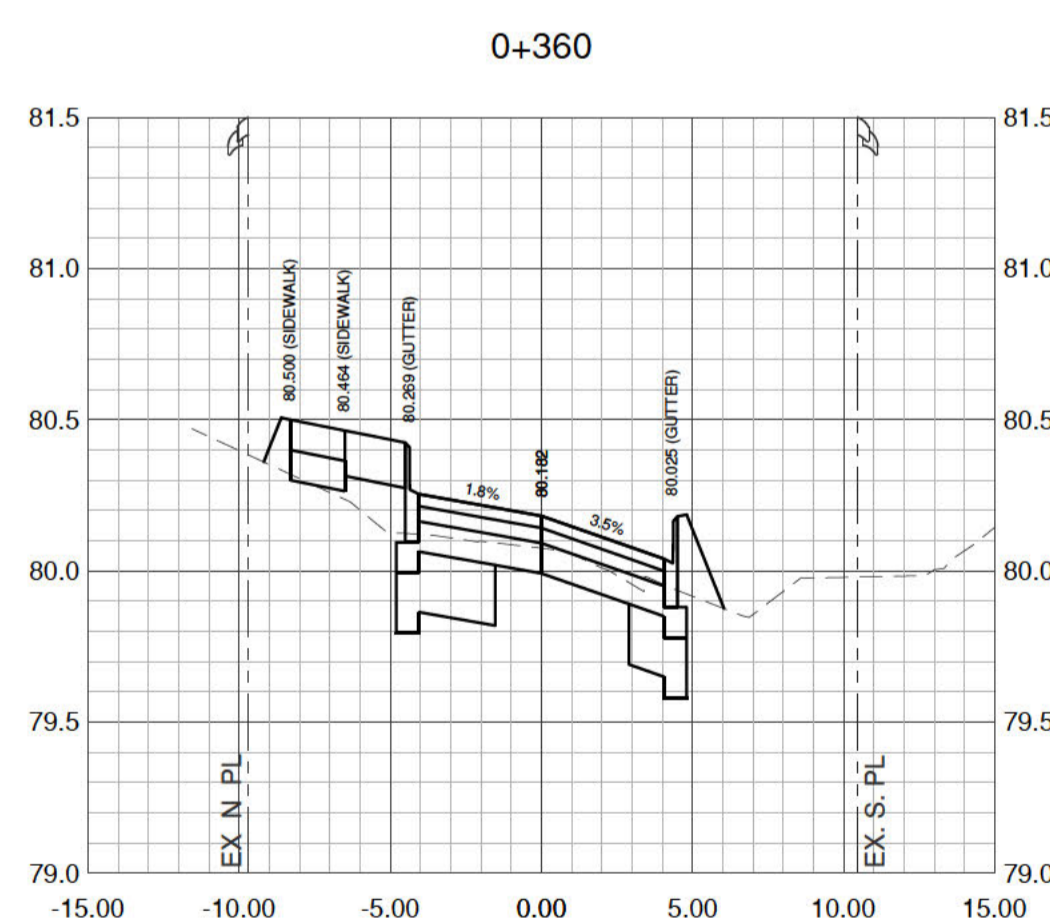
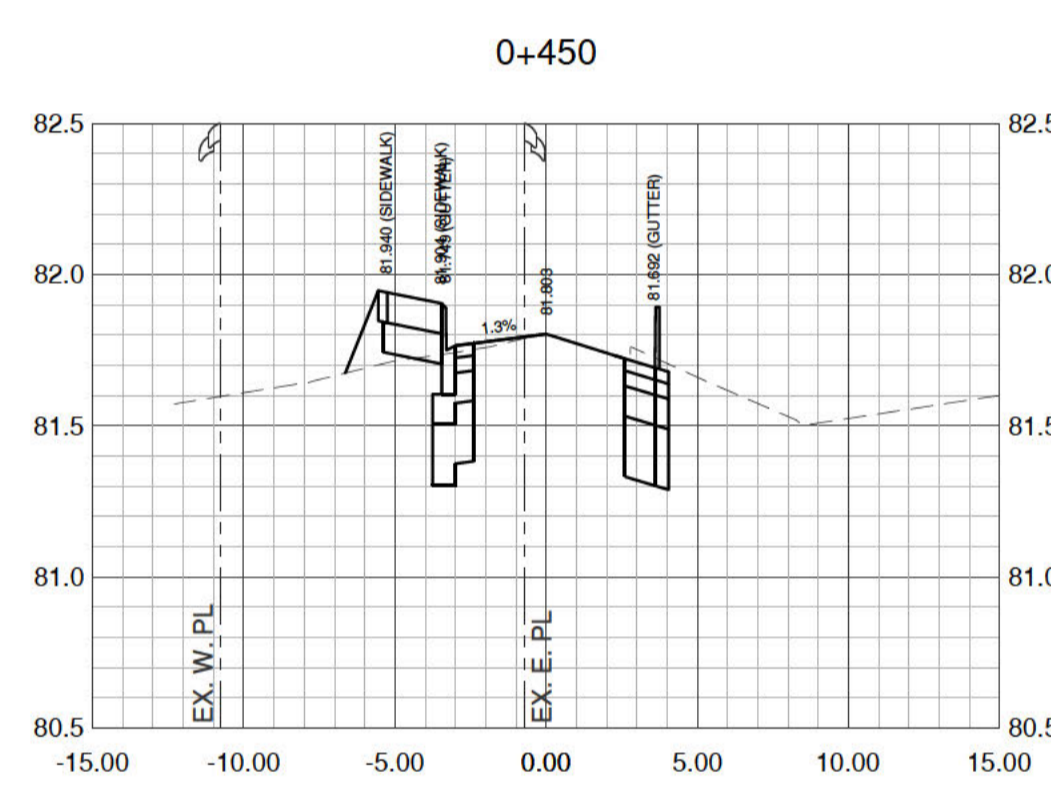
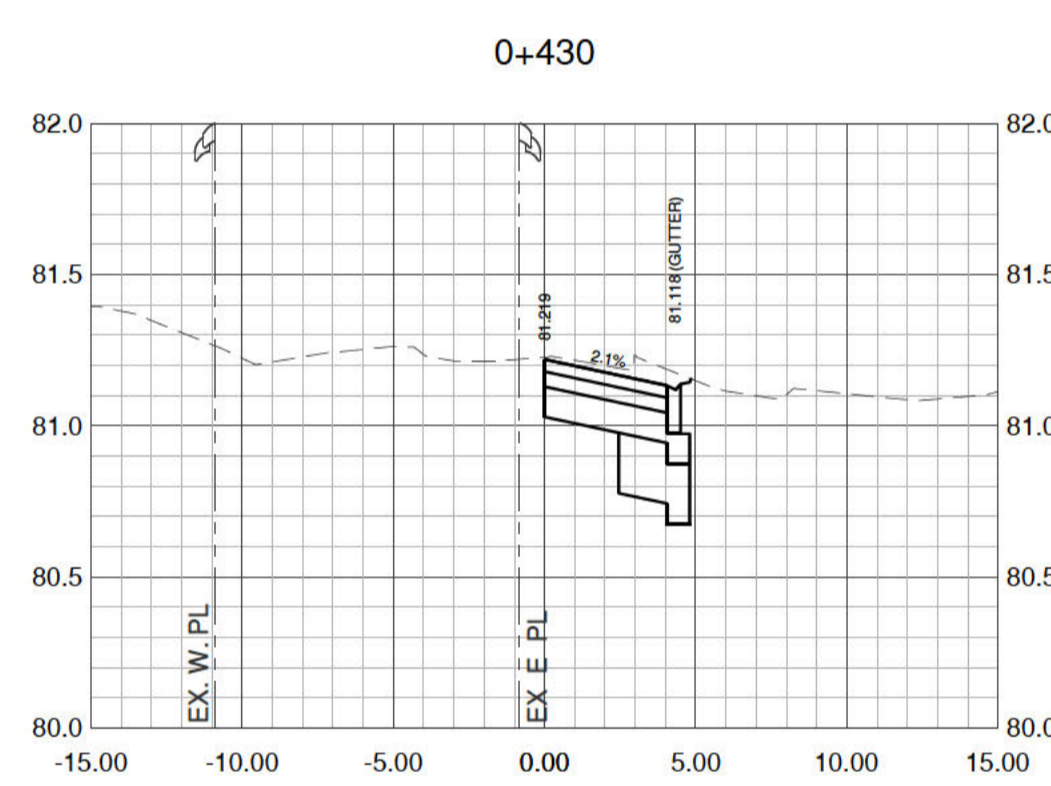
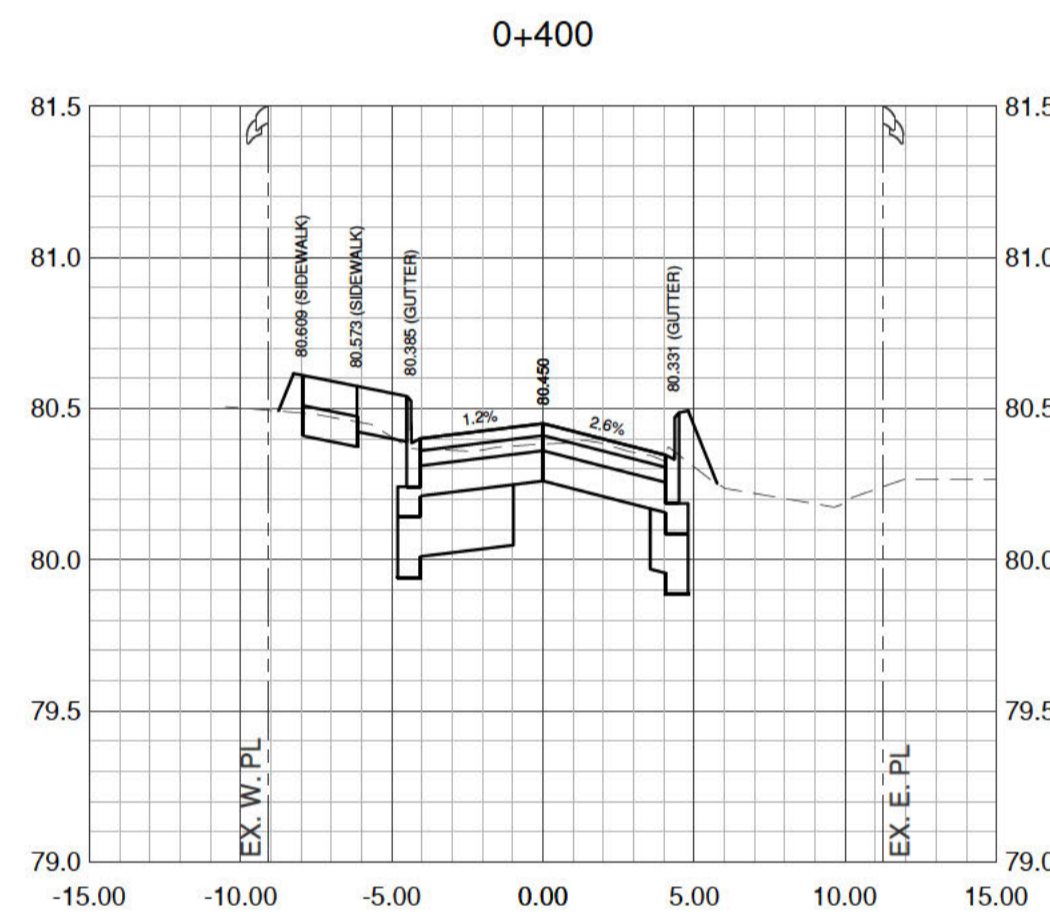
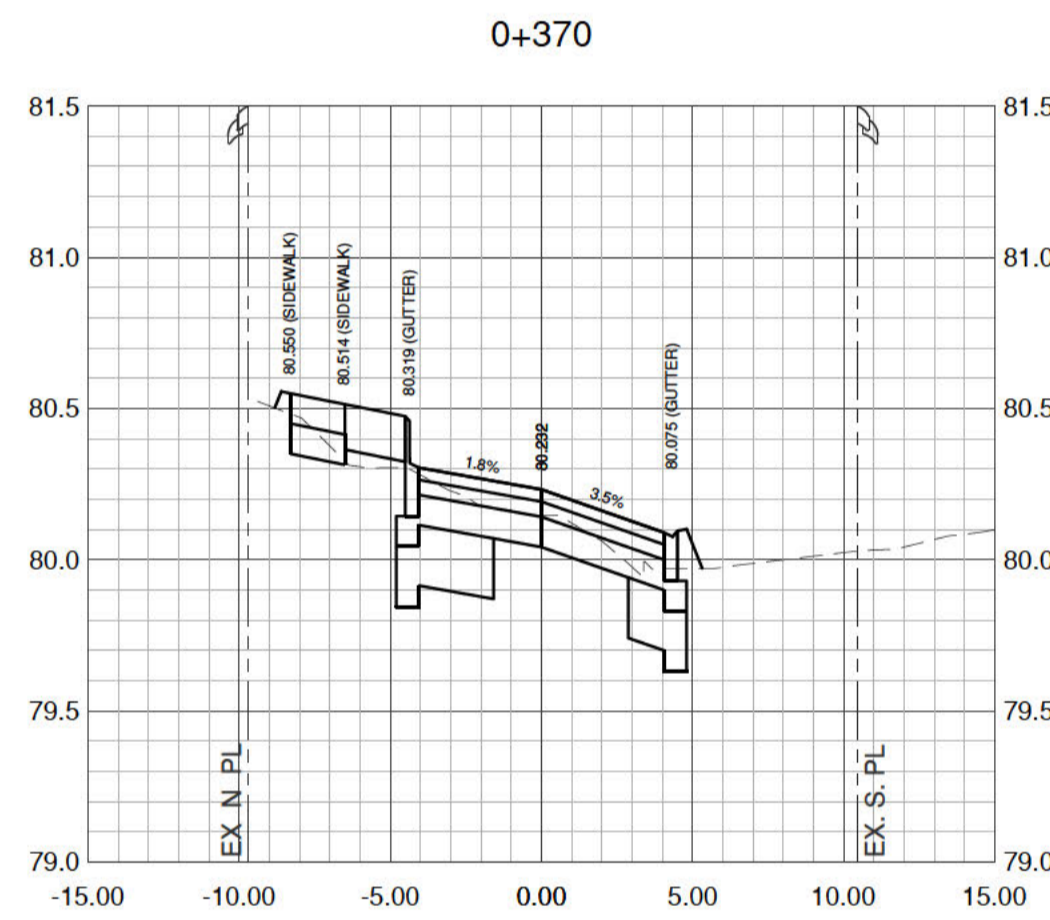
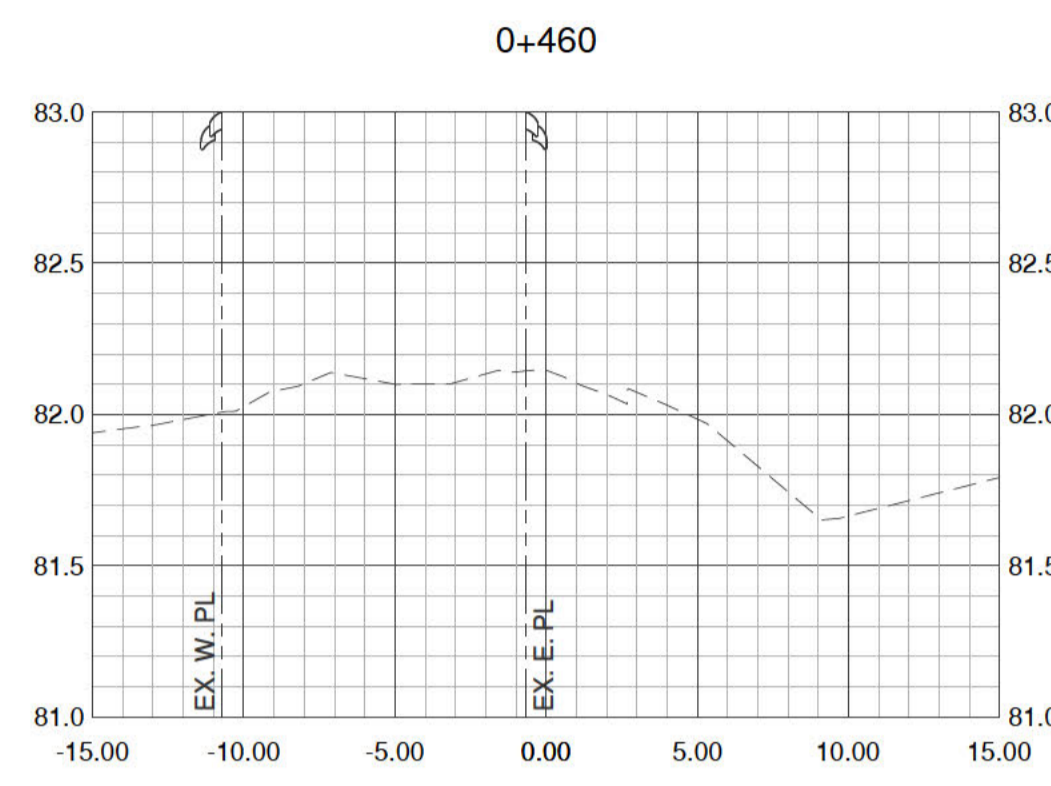
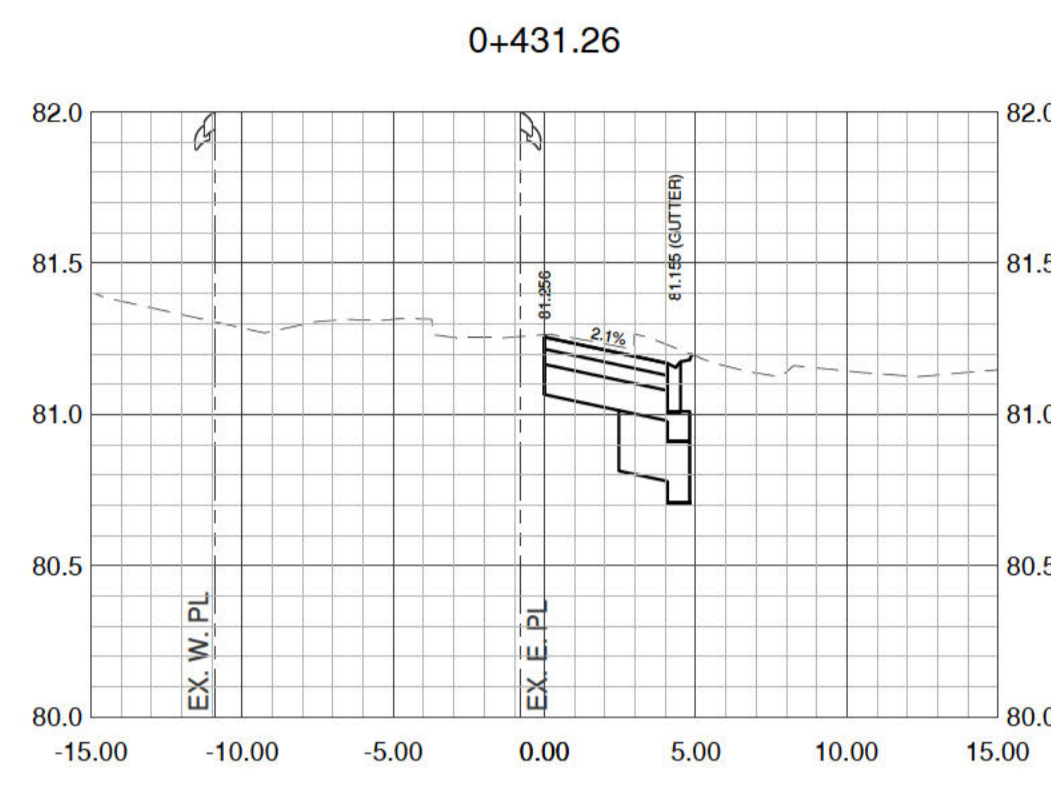
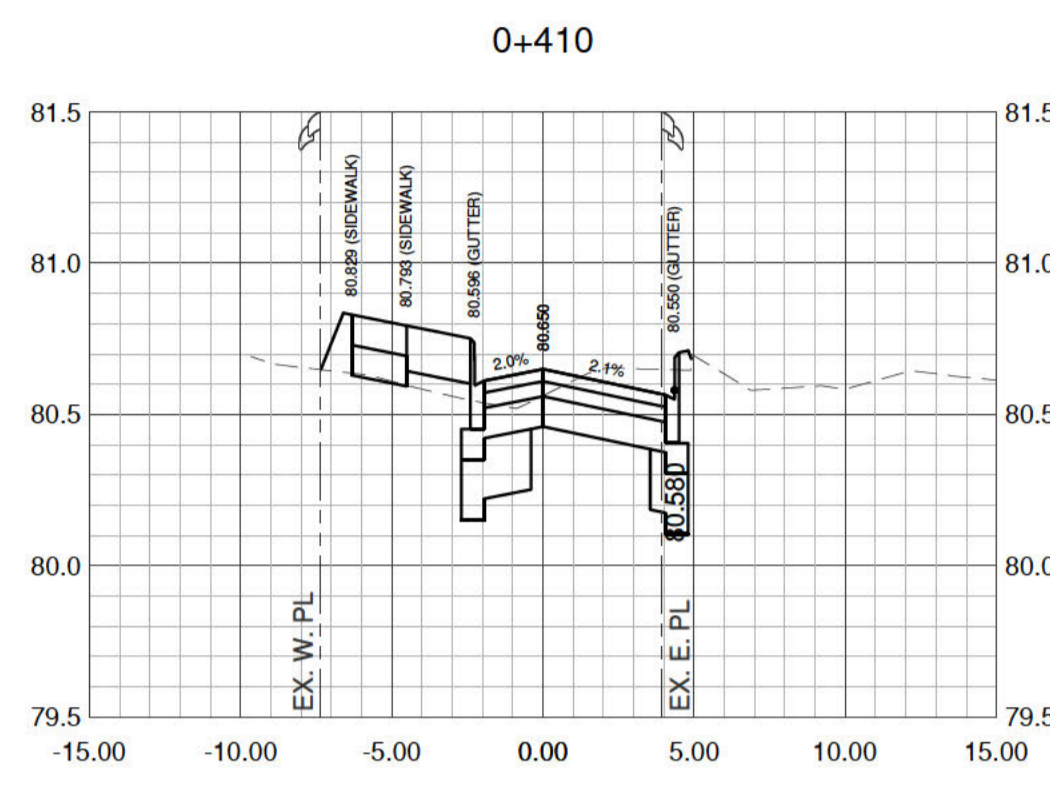
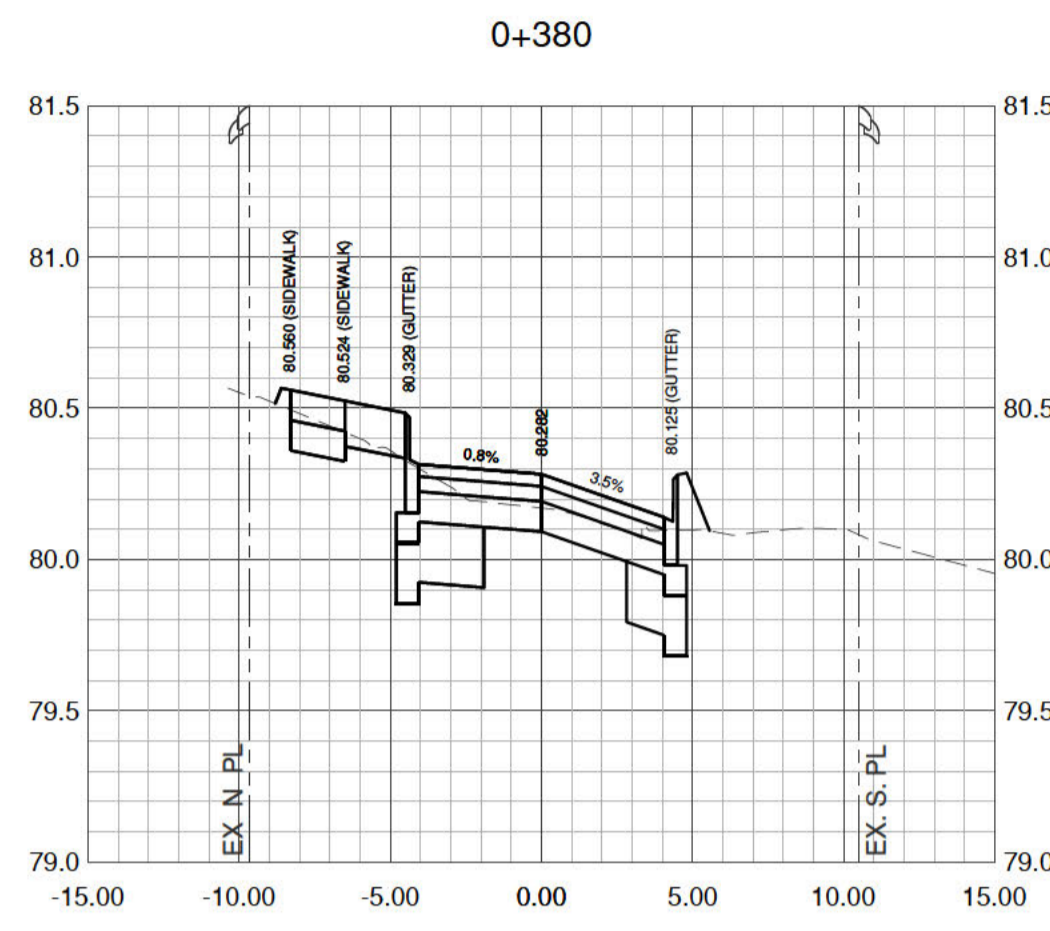
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 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-3

SHEET 12 OF 13
 REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.



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No.	DATE	REVISION	BY
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1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

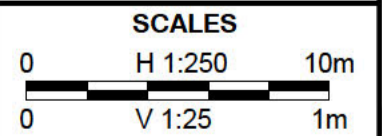


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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

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DATE	2020-01-28
DRAWING No.	20-0063-XS1-4
SHEET	13 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

Debbie Johnstone

From: noreply@whiterockcity.ca
Sent: March 11, 2021 1:14 PM
To: Hiep Lo
Cc: Dustin Abt
Subject: A CALL FOR ROADS - CRACKS/DAMAGE HAS BEEN ASSIGNED TO HIEP LO
Attachments: LIVE CALL_NUMBER 39961.TDGL

Hi HIEP LO,

Redacted S. 22 called on Mar 11, 2021 at 01:10 PM. Here are the call details:

Call Number: 39961
Incident Location: 14441 BLACKBURN CRES
Telephone number: **Redacted S. 22**,
Inquiry Type: ROADS - CRACKS/DAMAGE
Comment: would like an update on when the street will get fixed
Internal Comments:

@DUSTIN ABT, this message is cc for your reference.

To access this ticket in Tempest, open the TDGL email attachment or search for call number 39961.
OR
Click [this link](#) if you have Mobile Dashboard access.

Thank you,
ANNA CANNON



67988

REQUEST FOR SERVICE DETAIL

Workgroup	~OPERATIONS	Class	ROADS
Call	39961	Mar 11, 2021 1:10 PM	Problem CRACKS/DAMAGE
Status	COMPLETED	Mar 12, 2021 9:56 AM	Priority NORMAL
Follow up	NO	Internal NO	Reference
		Bring Forward Mar 12, 2021	Repeat

Location	Requestor
14441 BLACKBURN CRES WHITE ROCK BC V4B 3A3	Redacted S. 22 Redacted S. 22 Phone Redacted S. 22

Call Detail

would like an update on when the street will get fixed

Workflow	Date	Name1	Name2	File No
ENTERED	Mar 11, 2021 1:10 PM	ANNA CANNON		
ASSIGNED	Mar 11, 2021 1:11 PM	DUSTIN ABT		
EMAIL	Mar 11, 2021 1:11 PM	<DAbt@whiterockcity.ca>		A CALL FOR ROADS - CRACKS/DAMAGE HAS BEEN ASSIGNED TO DUSTIN ABT
ASSIGNED	Mar 11, 2021 1:13 PM	HIEP LO		
EMAIL	Mar 11, 2021 1:13 PM	<HLo@whiterockcity.ca>		A CALL FOR ROADS - CRACKS/DAMAGE HAS BEEN ASSIGNED TO HIEP LO
COMPLETED	Mar 12, 2021 9:56 AM	HIEP LO		Spoke to [Redacted] and told [Redacted] that council will have to approve to budget prior to start of work. HL
EMAIL	Mar 12, 2021 9:57 AM	<DAbt@whiterockcity.ca>		Call 39961 - ROADS - CRACKS/DAMAGE has been completed

Debbie Johnstone

From: Birk Madsen
Sent: August 12, 2022 9:02 AM
To: Jim Gordon; Corrine Haer
Subject: Binnie & Associates: White Rock Projects Update

Hi Jim,

Below is a list of all projects Binnie & Associates are involved. I have indicated which ones Dustin was managing. I will have Mike include Corrine in the future.

Water Utility Operational items I am involved are;

1. Air conditioner for well 2 building
2. Installing cranes at Oxford pump station, treatment plant, Merklin
3. BC Hydro transformer replacement for well 1, 2, 3.
4. SCADA maintenance agreement (Looking for local SCADA service provider)

Regards.

Birk

From: Michael Hill <MHill@binnie.com>
Sent: August 11, 2022 8:13 PM
To: Birk Madsen <BMadsen@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Lihua He <LHe@whiterockcity.ca>; Vu Tran <VTran@whiterockcity.ca>; Melchor Mateo <MMateo@binnie.com>; Richard Ahrend <RAhrend@binnie.com>; Nazeer Mojaab <NMojaab@binnie.com>
Subject: White Rock Projects Update

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Birk,

As you requested, here is an update of the various projects on the go, from oldest to newest:

- 1) North Bluff and Oxford Curb Return – I believe you are coordinating with Surrey for the intersection improvement and purchasing land from Telus on the southwest corner? Let me know if we can assist.
- 2) Marine and Nichol Sanitary and Intersection Improvements – You have the complete RFP package for BC Bid. Let me know if you plan to put that out for proposals this year.
- 3) Blackburn Road Improvements – We are at 90% design, paused while you determine if this project is going ahead.
- 4) Centennial Park Wall – You have the complete RFP package for BC Bid. Let me know if you plan to put that out for proposals this year.
- 5) Johnston Road Reconstruction Phase 2 - We are at 90% design, paused while you determine if this project is going ahead.
- 6) Johnston Road Reconstruction Phase 3 – We were preparing a proposal for the design when Phase 2 was paused. Let me know if you need that.
- 7) 2020 Annual Sewer Rehab Program, Open Cut and Trenchless – Deficiencies are complete, final holdback invoices and record drawings are coming shortly. **Dustin**

- 8) Habgood Watermain – Design is complete, awaiting word on whether the construction will go ahead. We would have to provide a proposal for tendering and construction admin services.
- 9) Centre Street Walkway – We recommended award to Cedar Crest in June. I understood it was going to council for award but I'm not sure what the result of that was. Perhaps you could update me there?
- 10) Phoenix Ravine Culvert – We have submitted draft 100% design drawings and estimate to Lihua for review. Richard will be back next Wednesday for a final review for official submission and sealing if you like.
- 11) Promenade Tree Lights – We had a pre-con meeting a few weeks ago; the contractor expects construction to start in September. The contractor has prelocated utilities and the archaeologist is conducting his investigation.
- 12) Prospect Clock Tower – I believe DMD and Hydro were coordinating IFC drawings but I could use an update here
- 13) 2022 Trenchless Sewer Rehab Program – This is out for retender after reducing the scope. Closed today. Please send tender result for our analysis. **Dustin**
- 14) 2022 Open Cut Sewer Rehab Program - We recommended Sandpiper for award. I understood it was going to council for approval. Please update me here. **Dustin**
- 15) 2022 CCTV Program – Cancelled due to higher than expected bids. Let me know if you want to retender. **Dustin**
- 16) Thrift Avenue Sewer Upsize – We are at 90% design. Paused due to lack of funds. Let me know if this is back on. **Dustin**
- 17) Pacific Fire Truck Display – We provided a proposal to the architect for civil services a few months ago. Have not heard back on the latest status.
- 18) 13736 Coldicutt Storm Extension – We completed a preliminary Design for review but the project was paused. Let me know if you need further info. **Dustin**

Let me know if you have any questions.

Thanks,



Michael Hill, CCA

Senior Project Manager, Associate

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC, V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

Our Langley office is located on the unceded, traditional, ancestral territories of the Katzie, Kwantlen, Matsqui, and Semiahmoo First Nations.

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Debbie Johnstone

From: Corrine Haer
Sent: August 17, 2022 12:45 PM
To: Michael Hill
Subject: RE: White Rock Projects Update

Hi Michael,

Nice to meet you as well. I think your notes are fairly straight forward.

Do you mind reaching back out next week? Hopefully by then I will have my head wrapped more around the capital work that needs to get done here at White Rock.

Cheers,

Corrine Haer, P.Eng.
Manager, Engineering | City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2188 | www.whiterockcity.ca



From: Michael Hill <MHill@binnie.com>
Sent: August 15, 2022 9:58 AM
To: Corrine Haer <CHAer@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>
Subject: White Rock Projects Update

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Corrine,

Welcome to White Rock, nice to e-meet you!

Apologies for not including you in the update below; I wasn't aware you had started yet.

Would you like to meet in person at your office this week to go through any of these to bring you up to speed from our end? If so, let me know what day works for you.

Thanks very much,

Michael Hill, CCA

R.F. Binnie & Associates Ltd.
Senior Project Manager, Associate
D +1 (604) 579-0605

From: Michael Hill <MHill@binnie.com>

Sent: August 11, 2022 8:13 PM

To: Birk Madsen <BMadsen@whiterockcity.ca>

Cc: Hiep Lo <HLo@whiterockcity.ca>; Lihua He <LHe@whiterockcity.ca>; Vu Tran <VTran@whiterockcity.ca>; Melchor Mateo <MMateo@binnie.com>; Richard Ahrend <RAhrend@binnie.com>; Nazeer Mojaab <NMojaab@binnie.com>

Subject: White Rock Projects Update

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Hi Birk,

As you requested, here is an update of the various projects on the go, from oldest to newest:

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Let me know if you have any questions.

Thanks,



Michael Hill, CCA

Senior Project Manager, Associate

D +1 (604) 579-0605

314-9440 202 Street, Langley, BC, V1M 4A6

T +1 (604) 574-3336 x 6605 | www.binnie.com

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Debbie Johnstone

From: Hiep Lo
Sent: September 16, 2022 9:54 AM
To: Corrine Haer; Lihua He
Cc: Birk Madsen
Subject: RE: ITIMP Capital Projects

Hi Corrine,

Blackburn Crescent was a controversial project, so I'm not oppose to closing it out. The other ones were mentioned in the Storm and Sewer Master plan and subsequently became part of the Stayte/Columbia Storm Diversion Project. If there are concerns with drainage/sewer I guess we can preform point repairs.

Regards,
Hiep

From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: September 16, 2022 9:49 AM
To: Hiep Lo <HLo@whiterockcity.ca>; Lihua He <LHe@whiterockcity.ca>
Cc: Birk Madsen <BMadsen@whiterockcity.ca>
Subject: RE: ITIMP Capital Projects

You got it!

40049	Columbia - Parker to Stayte	-	186,000	NR	Not in ITIMP, cl
40050	Columbia - Habgood to Parker	-	200,000	NR	Not in ITIMP, cl
	Columbia & Maple Improvements			Year change	moved funding
40060	Habgood - Pacific to Columbia	-	618,000	NR	Not in ITIMP, cl
40067	Pacific - Habgood to Ewson	-	100,000	NR	Not in ITIMP, cl
40082	Prospect - Foster to Johnston	-	542,000	CF	In ITIMP, 1-2 ye
40085	Best - Thrift to Russell	-	263,000	CF	In ITIMP, 1-2 ye
	Oxford - Thrift to Buena Vista			Year change	moved funding
	Russell - Best to Fir			No change	Is it necessary
40069	Blackburn Crescent - Archibald to High	-	891,000	NR	Not in ITIMP, cl

The ones I have circled, I am proposing to close out the accounts unless Birk/Hiep you feel they are absolutely necessary. Essentially, they don't align with the ITIMP which is our latest strategy for roadworks.

Thanks,
Corrine

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: September 16, 2022 9:44 AM
To: Corrine Haer <CHaer@whiterockcity.ca>; Lihua He <LHe@whiterockcity.ca>
Cc: Birk Madsen <BMadsen@whiterockcity.ca>
Subject: RE: ITIMP Capital Projects

Hi Corrine,

I do, I would like to bump it up to \$180,000.00.

Regards,

Hiep Lo, ASCT

Engineering Technologist, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604-541-2185 | www.whiterockcity.ca



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From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: September 16, 2022 9:33 AM
To: Lihua He <LHe@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Birk Madsen <BMadsen@whiterockcity.ca>
Subject: RE: ITIMP Capital Projects

Thanks Lihua.

Hiep, do you need more funded than \$116K for North Bluff & Oxford Intersection Improvements?

Thanks,
Corrine

From: Lihua He <LHe@whiterockcity.ca>
Sent: September 15, 2022 3:25 PM
To: Corrine Haer <CHaer@whiterockcity.ca>
Cc: Hiep Lo <HLo@whiterockcity.ca>; Birk Madsen <BMadsen@whiterockcity.ca>
Subject: ITIMP Capital Projects

Hi Corrine,

I reviewed the project list against the ITIMP capital projects and attached is my input for your information.

I don't have full knowledge about these projects, wonder Hiep and Birk may have more background information on some projects.

Regards,

Lihua He, P.Eng.

Project Engineer, City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2296 | www.whiterockcity.ca



Debbie Johnstone

From: Corrine Haer
Sent: September 26, 2022 12:57 PM
To: Hiep Lo; Jenine Waddington
Subject: RE: REPORT DUE THIS FRIDAY, SEPT 30 FW: Reminder: 2021 Annual Expenditure Report

I will review this by the end of the day Wednesday. Thanks!

From: Hiep Lo <HLo@whiterockcity.ca>
Sent: September 26, 2022 12:53 PM
To: Corrine Haer <CHAer@whiterockcity.ca>; Jenine Waddington <jenine@whiterockcity.ca>
Subject: FW: REPORT DUE THIS FRIDAY, SEPT 30 FW: Reminder: 2021 Annual Expenditure Report
Importance: High

Hi Corrine, Jenine,

I'm not sure what needs to be done here, I'm not too familiar with this side of things.

However I can provide some general information on the project noted:

The projects I show being funded from the funding we have received up to December 2021, and are supposed to receive in 2022 and 2023 are as follows:

- Blackburn Crescent Archibald to High – 2022 \$300,000 (total project budget \$891,000) – This will be cancelled, nothing has been built.
- Johnston Russell to Thrift – 2023 \$584,800 (total project budget general fund \$2,204,000) - This is Johnston Road Phase 2 detailed drawings/tender to be complete in 2023 for construction in 2023, nothing has been built. Pipe replacement due to condition and capacity concerns.
- Johnston Road Thrift to Roper – 2022 \$25,000, 2023 \$25,000, 2024 \$156,800 (Total project budget general fund \$4,063,000, I also show additional funding being used in 2025) This is Johnston Road Phase 3 no designs yet scheduled to be built 2024- Pipe replacement due to condition and capacity concerns.

Regards,

Hiep Lo, ASCT
Engineering Technologist, City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604-541-2185 | www.whiterockcity.ca



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From: Candice Gartry <cgartry@whiterockcity.ca>
Sent: September 26, 2022 11:59 AM

To: Jenine Waddington <jenine@whiterockcity.ca>; Corrine Haer <CHaer@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>; Shannon Johnston <shannon@whiterockcity.ca>

Cc: Jim Gordon <JGordon@whiterockcity.ca>

Subject: REPORT DUE THIS FRIDAY, SEPT 30 FW: Reminder: 2021 Annual Expenditure Report

Importance: High

Hi folks,

Shannon and I received a follow-up reminder about the required asset management survey that Shannon had referred to back in June via email (yellow highlighted text below).

This asset form is **due this Friday, September 30** (so really end of day Thursday, Sep 29). The survey itself is accessed through the GFOA PIMS system. I'm not sure who in Engineering has access.

I have gone through the survey and completed what I can, largely based on the 2016 submission. PDF's of both are attached. As I have started the survey in PIMS, anyone who has access to the system should be able to access the survey. I've also attached the instruction manual.

Jennine, Corrine & Hiep – the survey needs to be reviewed by you in detail, corrections made, and additions made where I didn't have the information prior to end of day Thursday, Sept 29. As I will be away as of Wednesday, please provide the amendments to Shannon.

Thank you,

Candice

From: Shannon Johnston

Sent: June 7, 2022 4:24 PM

To: Jim Gordon <JGordon@whiterockcity.ca>; Hiep Lo <HLo@whiterockcity.ca>

Cc: Amanda Silvers <ASilvers@whiterockcity.ca>; Jenine Waddington <jenine@whiterockcity.ca>

Subject: FW: Reminder: 2021 Annual Expenditure Report

Hi Jim & Hiep,

I thought it would be a good idea to send you the information on the Community Building Fund, it was called the Community Works Fund (Gas Tax) before. The reason I am sending you this information is that we do have funding for road projects in the 2022 financial plan that use the funds we have received so far, and are supposed to receive in 2022 and 2023, coming from these grants. As the money received up to the end of 2023 is supposed to be used by March 31, 2024 I thought it would be good for you to be aware of the projects that it is being used for. There are also requirements for signage installation and communication when a municipality uses the funds, which would be either yours or Communications responsibility, you would most likely have to coordinate it with Communications.

The projects I show being funded from the funding we have received up to December 2021, and are supposed to receive in 2022 and 2023 are as follows:

- Blackburn Crescent Archibald to High – 2022 \$300,000 (total project budget \$891,000)
- Johnston Russell to Thrift – 2023 \$584,800 (total project budget general fund \$2,204,000)
- Johnston Road Thrift to Roper – 2022 \$25,000, 2023 \$25,000, 2024 \$156,800 (Total project budget general fund \$4,063,000, I also show additional funding being used in 2025)

As we have had this funding for quite some time and it has to be used by March 31, 2024 I felt it would be good for you to be aware of it, I may also have to change the projects that are funded from it depending on when we actually feel they will be done.

I also received a second email that looks like we have to submit an asset management assessment form which I have not had time to look at yet, I am attaching a scan of the email I received, this is also something that I imagine I will require Engineering's help in completing so wanted to give you the heads up.

If there is someone else in Engineering that should be aware of this can you please let me know, I am assuming it is Hiep that will deal with it but was not 100% sure. Let me know if you have any questions.

Thanks Shannon

From: Canada Community-Building Fund <ccbf@ubcm.ca>

Sent: May 2, 2022 2:38 PM

To: Canada Community-Building Fund <ccbf@ubcm.ca>

Subject: Reminder: 2021 Annual Expenditure Report

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

This e-mail is a reminder that your 2021 Annual Expenditure Report, which was made available on April 1, 2022 through [PIMS](#) is due no later than **June 1, 2022**. Should other staff within your organization require access to the system to complete this report please e-mail PIMS@ubcm.ca with their contact information and we will happily grant them access.

Supporting information including instructions on how to complete your report and a CWF program guide can be found on [our website](#).

Should you require any assistance with completing your report, please do not hesitate to reach out. Timely submission of the Annual Expenditure Report is greatly appreciated to allow UBCM staff enough time to review report information and follow up with any questions.

Kind regards,

--

Rebecca Williams
Program Administrator, Canada Community-Building Fund
Union of BC Municipalities
525 Government Street, Victoria BC V8V 0A8
p: 250-356-5134
e: rwilliams@ubcm.ca | ubcm.ca



[Subscribe](#) to "The Compass" UBCM's weekly newsletter for the latest news.

From: Canada Fund <ccbf@ubcm.ca>
Date: Friday, April 1, 2022 at 12:36 PM
To: Canada Fund <ccbf@ubcm.ca>
Subject: 2022 Canada Community-Building Fund Update

Good afternoon,

Attached you will find correspondence outlining the most recent Canada Community-Building Fund update. The letter outlines in details information in relation to:

- [2022 Strategic Priorities Fund Intake](#);
- [2021 Annual Expenditure Reporting](#);
- 2021 Communications and Compliance Survey;
- 2022 Asset Management Assessment – Measuring Progress; and
- 2023 CCBF Outcomes Report.

Please review the letter in detail, and should you have any further questions do not hesitate to reach out.

Kind regards,

--

Rebecca Williams
Program Administrator, Canada Community-Building Fund
Union of BC Municipalities
525 Government Street, Victoria BC V8V 0A8
p: 250-356-5134
e: rwilliams@ubcm.ca | ubcm.ca



[Subscribe](#) to “The Compass” UBCM’s weekly newsletter for the latest news.

Debbie Johnstone

From: Guillermo Ferrero
Sent: October 5, 2022 9:07 AM
To: Chris Magnus
Cc: Corrine Haer; Jim Gordon
Subject: RE: Email from **Redacted S. 22** to Council and Externals | Blackburn Crescent
Attachments: Re: [FWD: Re: Blackburn Crescent]

Anthony responded and he is correct – the project is in the Capital Plan.

G.

GUILLERMO FERRERO

Chief Administrative Officer, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2133 | www.whiterockcity.ca



"An impossibility is only a possibility that you don't understand"

From: Chris Magnus <CMagnus@whiterockcity.ca>
Sent: October 5, 2022 9:05 AM
To: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Email from **Redacted S. 22** to Council and Externals | Blackburn Crescent

Good morning G. For your review.

CHRIS MAGNUS

Executive Assistant to Mayor and CAO, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2124 | www.whiterockcity.ca



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From: **Redacted S. 22**
Sent: October 5, 2022 9:01 AM
To: **Redacted S. 22**; White Rock Council <whiterockcouncil@whiterockcity.ca>; Darryl Walker <DWalker@whiterockcity.ca>
Cc: **Redacted S. 22**
Redacted S. 22 | **Redacted S. 22**

Redacted S. 22

Subject: Re: Blackburn crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you so much for your initiative on this matter. My [Redacted S. 22] and I are in full agreement with the sentiment of your email to council. We have been repeatedly given conflicting information regarding the status of this project. The road at the west end of Blackburn crescent is disintegrating daily and this is before the annual rains arrive. The complete lack of storm sewer drains results in enormous lakes and run off that continually threatens the properties along that stretch. It is our sincerest hope that your email will galvanize the city to take action and uphold the original promise of road improvement.

Sincerely

Redacted S. 22

Get [Outlook for iOS](#)

From: Redacted S. 22

Sent: Tuesday, October 4, 2022 10:10:18 AM

To: whiterockcouncil@whiterockcity.ca <whiterockcouncil@whiterockcity.ca>; dwalker@whiterockcity.ca <dwalker@whiterockcity.ca>

Cc:

Joseph King <king@kinglasik.com>; Redacted S. 22

Subject: Blackburn crescent

.....it appears that some of the recipient emails were contaminated, as such I am resending this email and apologize for inconvenience

Mayor Darryl Walker/council

As the election day is just around the corner, my mail box is flooded with election propaganda, people knocking on my door, signs all over the place and even nice people waving on the street corners.

Of course, all of this is done (I suppose) to reward all of you, on a job well done over the last four years. All of a sudden, a picture is painted that I/WE are important and that all of you care about me and my neighborhood. True enough, the all mighty little piece of paper on the voting day is of the utmost importance, but that's where it all stops. After all of you are seated (if you are seated) in your new/present roles, that's when real politics kick in. That's when lobby groups, influencers, petitions (legitimate or not) friends of friends, personal connections to city departments etc. etc. etc. take over. So please tell me, how important am I?

Having said that, quite frankly, I am having a lot of difficulty with the part of a job well done. Question that we all need to ask ourselves is, what have you done for us and our neighborhood.

Let me expand on this very important question.

In regards to the upgrade of **Blackburn cr** which is in total disrepair but at the same time one of the most travelled by both pedestrian and bicycle routes to the local park. This project has been in the works for the last twelve years or so, most recently plans were drawn up and work on project was to start pre covid but understandably so, it was delayed. As it stands now, my understanding is that this project has been cancelled. As I mentioned earlier, lobby groups, influencers and petitions, did their job. I guess, it's not all that important that our homes on the south side of the street are constantly flooded and that we need to spend considerable amounts of money to repair our side stairs and that our gardens are contaminated.

Malabar cr. that we back on to and is our access to our garages is a real scary place at night, there are no street lights other than our garden lights. unacceptable and unsafe!!!

Back to my question of what have you done for me and my neighbors, there is only but one answer, which is a **big fat zero!!!** Oh, my apologies, you did manage to raise my property taxes to an outrageous : 2021- \$13,444.05 to 2022- \$15,341.00!!!! cool \$1896.95 how could this humble local pensioner ever thank you.

In conclusion, who should I/we vote for? This is a very simple answer, **NONE OF YOU**, for a simple reason that you haven't done anything for us other than raise our property taxes, so why should we reward you for making our lives more difficult?

At this point I encourage all my neighbors to seriously consider taking the same measures when it comes to that all important election day.

If anyone of you can bring forward any information contrary to my believes and assure us that this project is still alive and work will start in the near future, I stand to be corrected and apologize for my misunderstanding.

Note: as I am redoing this email, I have received two responses from councilor Anthony Mannigan for which I thank him...

Best regards,

Redacted S. 22



P.S. out of some kind of fairness I did not send this email to Peace Arch news.

Debbie Johnstone

From: Anthony Manning
Sent: October 3, 2022 3:35 PM
To: Redacted S. 22
Subject: Re: [FWD: Re: Blackburn Crescent]

Hello, [Redacted S. 22]. I walk Blackburn Crescent nearly every day and am very familiar with the condition of the road. I agree it needs major work, especially the south side of the street.

The road reconstruction project has **not** been cancelled. It is a budgeted item (please see p. 155 of our 2022 Financial Plan, link below) and will begin after the completion of other projects currently in the queue.

<https://www.whiterockcity.ca/DocumentCenter/View/7780/City-of-White-Rock-2022-Financial-Plan-Budget-Document-?bidId=>

Yours sincerely,

Councillor Anthony Manning

From: Redacted S. 22
Sent: October 3, 2022 14:23
To: White Rock Council <whiterockcouncil@whiterockcity.ca>
Subject: Fw: [FWD: Re: Blackburn Crescent]

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

From: Redacted S. 22
Sent: Monday, October 3, 2022 2:04 PM
To: Whiterockcouncil@whiterock <Whiterockcouncil@whiterock>; dwalker@whiterockcity.ca
<dwalker@whiterockcity.ca>
Cc: Redacted S. 22

[Redacted S. 22] [Redacted S. 22]
Subject: Re: [FWD: Re: Blackburn Crescent]

Mayor Darryl Walker/council members

As the election day is just around the corner, my mail box is flooded with election propaganda, people knocking on my door, signs all over the place and even groups of people waving on the street corners.

Of course, all of this is done (I suppose) to reward all of you, on a job well done over the last four years. All of a sudden, a picture is painted that I/WE are important and that all of you care about me and my

neighborhood. True enough, that all mighty little piece of paper on the **voting day** is of the utmost importance, but that's where it all stops. After all of you are seated (if you are seated) in your new/present roles, that's when real politics kick in. That's when lobby groups, influencers, petitions (legitimate or not) friends of friends, personal connection to city departments etc etc etc take over. So please tell me, how important am I ?

Having said that, quite frankly, **I am having a lot of difficulty with the part of a job well done.** Question that we all need to ask ourselves is, what have you people done for us and our neighborhood?

Let me expand on this very important question.

In the threads below you can see the communication with the neighbors and the city staff in regards to upgrade of **Blackburn cr**, which is in total disrepair but at the same time one of the most travelled by both pedestrian and bicycle routes to the local park. This project has been in the works for the last **twelve years** or so, most recently plans were drawn up and work on project was to start pre covid but understandably so, it was delayed. As it stands now, my understanding is that this project has been cancelled. As I mentioned earlier, lobby groups, influencers and petitions, did their job. I guess, it's not all that important that our homes on the south side of the street are constantly flooded and that we need to spend considerable amounts of money to repair our side stairs and that our gardens are contaminated.

Malabar cr that we back on to and is our access to our garages is a real scary place at night, there are no street lights other than my garden lights.. Unacceptable and unsafe!!!

Back to my question of what have you done for me and my neighbors, there is only but one answer, which is **big fat nothing!!** Oh, my apologies, you did manage to raise my taxes to an outrageous 2021- \$13,444.05 to 2022-\$15,341.00 !!!!! cool \$1,896.95 how could your local pensioner ever thank you..

In conclusion, who should I/we vote for? This is a very simple answer, none of you, for a simple reason that you haven't done anything for us other than raise our property taxes.. so why should we reward you for making our lives more difficult.

At this point I encourage all my neighbors to seriously consider taking the same measures when it comes to that all important election day.

If anyone of you can bring forward any information contrary to my believes and assure us that this project is still alive and work will start in the near future, I stand to be corrected and apologize for my misunderstanding.

Best regards,

Redacted S. 22


PS out of some kind of fairness I hesitated to send this email to Peace arch news

From: Redacted S. 22
Sent: Friday, January 29, 2021 10:25 AM
To: Redacted S. 22
Cc: JGordon@whiterockcity.ca <JGordon@whiterockcity.ca>
Subject: Re: [FWD: Re: Blackburn Crescent]

Hello Redacted S.

Thank you for your email. Redacted S. 22 are certainly in support of the upgrades to this street. Given the clarity of information over the past weeks that has been provided by Council members and J. Gordon, we are certainly in support of the overall plan and hope it will be approved in the coming days and weeks. I have passed on my support to members of Council, the Major and city officials involved and hope concerns we brought forward in no way will sidetrack this project. We look forward hopefully to see a concept plan on paper as it were in the near future.

Cheers,

Redacted S. 22

----- Original Message -----

From: Redacted S. 22
To: Redacted S. 22

Redacted S. 22
Joseph King <jking@kinglasik.com>
Sent: Wed, 27 Jan 2021 22:43:21 -0700 (MST)
Subject: [FWD: Re: Blackburn Crescent]

Dear neighbors,

I am forwarding to all of you an email which I received from J. Gordon (director of engineering and municipal affairs) as well as my reply.

In this email it is clearly stated that the conceptual plan for our street is an 8.5 meter wide road, with a sidewalk on the north side adjacent to the curb. The road would not be shifting to the south but slightly to the north, and bike lanes are not dedicated, but simply bikes painted on the road to indicate that the south side of the street is shared with bicycles.

Very important aspect of this upgrade is the underground utility work.. Flooding is a major problem for all of us on the south side and in particular two thirds of the street to the west. I built my house Redacted S. 22 and the water runoff off the street on the east side, has undermined approx 80 feet of paving stone steps which I will need to rebuild. Let alone the fact that we will not be able to use are garden because of contamination.

This is not an outrageous plan that would have any negative impact on our lives but on the contrary improve our street and with that, bring up the value of our homes, old or new..

In several emails that I exchanged with both Redacted S. 22 (not sure if Redacted S. 22 shared any of them with the group) I was of a strong opinion that this petition was premature and simply based on assumptions and speculations. I also pointed out, that if this petition was to represent the will of all that are effected by it, it needed to be held in an open forum, so that we can all exchange ideas. I also objected to using city boulevard improvements as our main argument in achieving our objective. Suggesting that a possible tree lined boulevard would be a much more acceptable argument.. and most importantly a clear message that we are looking forward to the construction work to start as soon as possible as this project has been in the works for over five years. etc etc

My biggest concern was that the petition was some what ambiguous and can be interpreted in different ways as to say that all those that signed the petition did not want the improvements but would prefer status quo.. And that is exactly what is happening.. I have an email from one of the council members which says: "I understand that while many residents support the petition, others want the infrastructure work done". I had a half hour telephone conversation yesterday with J. Gordon who indirectly implied that our project could possibly be cancelled..

In speaking to a few neighbors around me that signed the petition (with all the controversy aside) they all like what the conceptual plan is indicating and as such fully support the project and have sent emails to mayor and council to that effect.

As you can see in J. Gordon's email, as early as next week and over the next two months Council will be discussing Capital Budgets which include our project..

I am appealing to all of you, to send a clear message to the Mayor and the Council that as signatories of the petition you support the conceptual plan for the street improvements. Please and double please, let's not this opportunity get away from us.

Best regards, **Redacted S. 22**

----- Original Message -----

Subject: Re: Blackburn Crescent

From: **Redacted S. 22**

Date: Wed, January 27, 2021 11:20 am

To: **Redacted S. 22**

Good morning Jim,

First of all I thank you on your due diligence and responding to my emails and returning my phone calls.

Secondly, your email clearly explains the conceptual plan for our street, which has put at ease speculations, frustrations and arguments amongst neighbours. Having said that, and having spoken with some of the neighbours that signed the petition this is welcome news which they support.

To further enhance and restore neighbourly atmosphere, I ask if you could forward the conceptual plan for our street so that we could actually see it. In my opinion this would certainly put every one at ease and the project would receive wide acceptance.

With that in mind, I am certain that there will not be any doubt on whether the project should go forward or not. Because cancelling the project is not an option.

Best regards, **Redacted S. 22**

Sent from my iPhone

On Jan 26, 2021, at 7:00 PM, **Redacted S. 22** wrote:

FYI

Sent from my iPhone

Begin forwarded message:

From: Jim Gordon <JGordon@whiterockcity.ca>

Date: January 26, 2021 at 3:50:05 PM PST

To: **Redacted S. 22**

Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>, Guillermo Ferrero

<GFerrero@whiterockcity.ca>

Subject: Blackburn Crescent

Hello



This is further to our phone conversation this afternoon.

The design of the improvements on Blackburn Crescent is not finalized, but conceptually consists of a standard 8.5m pavement with a sidewalk adjacent to the curb on the north side of the road. The road will be shifted slightly to the north (not south as mentioned in the petition) because of grade challenges on the south side of the road. There will be shareable bike lanes painted on the road, not a dedicated bike lane.

Underground utility work accounts for approximately half of this project. It is intended that the road design will incorporate drainage improvements to direct road drainage to the storm system.

You mentioned that you wished to contact the Mayor and Council to advise of your support for the project. I am copying them on this email so you can easily access their contact information.

Council will be discussing Capital Budgets, including this project, as early as next week and over the next two months.

Best Regards,

Jim

Jim Gordon P.Eng.

**Director of Engineering and Municipal Operations,
City of White Rock**

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2181 | www.whiterockcity.ca

<image003.jpg>

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Debbie Johnstone

From: Lihua He
Sent: October 13, 2022 3:37 PM
To: Corrine Haer
Subject: RE: Blackburn Crescent between Archibald and High

Hi Corrine,

Let me review the master plans and get back to you...

Lihua He, P.Eng.
Project Engineer, City of White Rock

From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: Thursday, October 13, 2022 3:09 PM
To: Lihua He <LHe@whiterockcity.ca>
Subject: Blackburn Crescent between Archibald and High

Hi Lihua,

Please summarize what our drainage, sanitary and water master plans say for the infrastructure in this section.

Thank you,

Corrine Haer, P.Eng.
Manager, Engineering | City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2188 | www.whiterockcity.ca



Debbie Johnstone

From: Guillermo Ferrero
Sent: October 13, 2022 3:33 PM
To: Corrine Haer
Cc: Jim Gordon
Subject: FW: Blackburn Crescent

Here 😊

From: Carl Isaak <CIsaak@whiterockcity.ca>
Sent: January 5, 2021 2:52 PM
To: Erika Johanson <EJohanson@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Chris Magnus <CMagnus@whiterockcity.ca>; Tracey Arthur <TArthur@whiterockcity.ca>; Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: RE: Blackburn Crescent

Good afternoon Councillor Johanson,

Re: your follow up questions below, for the Miramar Village (Bosa) section of Thrift Avenue, due to the length of space required for the bus pull-in and stop area on Thrift Avenue, removing the separated bike lane would not have resulted in more street parking.

At Foster Martin, the bike lane on Martin Street will be a painted lane on the street itself, and there will be space between this bike lane and the sidewalk, some of which will be used for Fire Department response/access and the rest will be street parking where space permits. The Foster Street side (where the businesses are located) will have street parking along the frontage.

Sincerely,

CARL ISAAK, MCIP, RPP
Director, Planning and Development Services, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2293 | Fax: 604.541.2153 | www.whiterockcity.ca



From: Erika Johanson <EJohanson@whiterockcity.ca>
Sent: January 3, 2021 1:58 PM
To: Guillermo Ferrero <GFerrero@whiterockcity.ca>; Tracey Arthur <TArthur@whiterockcity.ca>
Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Chris Magnus <CMagnus@whiterockcity.ca>; Carl Isaak <CIsaak@whiterockcity.ca>
Subject: Re: Blackburn Crescent

Thanks, Guillermo, for all the detail - much appreciated. I did let those residents who contacted me know that the issue would come up as part of the Financial Plan review.

Out of curiosity, if the bike lane for Bosa along Thrift would not have been required/included, could there have been more street parking spaces on that part of Thrift? Also, will there be a loss of on-street parking because of similar requirements for Foster Martin?

TIA,

Erika Johanson
Councillor
City of White Rock
778-867-9317

From: Guillermo Ferrero <GFerrero@whiterockcity.ca>

Sent: Monday, December 21, 2020 1:31:48 PM

To: Erika Johanson <EJohanson@whiterockcity.ca>; Tracey Arthur <TArthur@whiterockcity.ca>

Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Chris Magnus <CMagnus@whiterockcity.ca>; Carl Isaak <CIsaak@whiterockcity.ca>

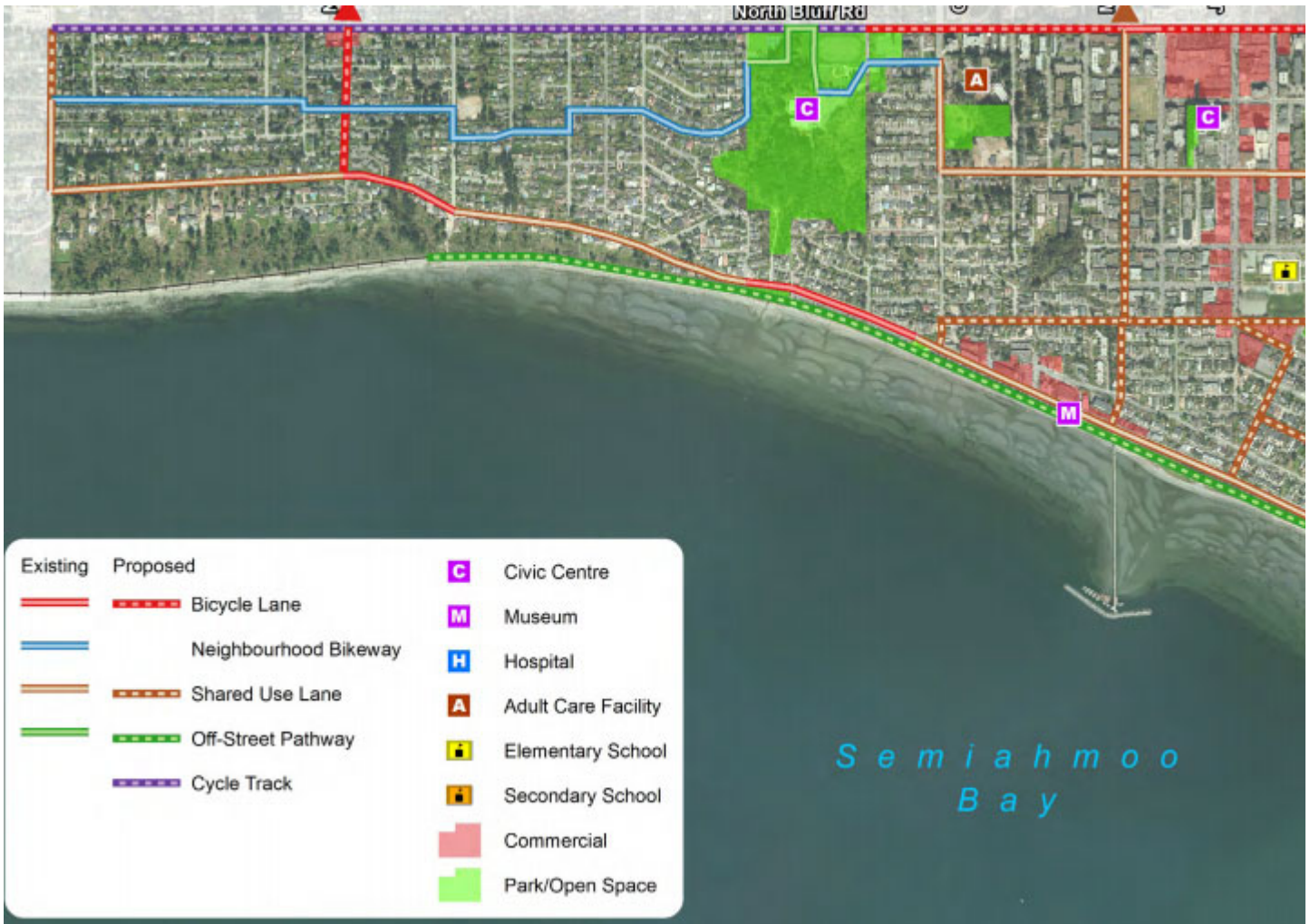
Subject: RE: Blackburn Crescent

Hi Erika,

I compiled information from Jim and Carl here:

Regarding this email, here is a page from the transportation plan that shows Neighbourhood Bikeway (shared used on street) on this location – not a dedicated bike lane (Resident to resident discussion has led to misconceptions about the proposed design that are reflected in the petition. For example, the road is not proposed to be shifted south and there are no sole purpose bike lanes, but rather painted “shareable” road markings)

<https://www.whiterockcity.ca/DocumentCenter/View/330/Strategic-Transportation-Plan-PDF>.



On Thrift Avenue in front of Miramar Village, it's a bit more complicated, but the idea is to incorporate/preserve space for cycling facilities when properties redevelop now, at the developer's expense, so the City does not have to assume the costs and inconvenience of reconfiguring the road later on. There will also be an on-street lane on Martin Street beside the new Foster Martin project, which links up to the north to a bike network in Surrey.

The 2014 STP includes the concept of Thrift Avenue from Oxford Street to Stayte Road becoming a "Complete Street"/"greenway corridor", though some of the maps in the STP don't show the section from Johnston Road to Oxford Street. This is described in further detail on pages 134-137 of the PDF. On the question of it being a lane to nowhere, the STP says of the greenway: **"It is anticipated that a project of this scope would be implemented in phases and could be coordinated with redevelopment and rehabilitation projects. Implementation would likely begin with the Town Centre area**, then proceed eastwards to connect to Stayte Road. To accomplish the required advance work, the City may wish to undertake preliminary design tasks in the near term. Completion of the corridor would likely occur in the long term." This greenway concept has not had preliminary design completed, but to prevent it from being made difficult in the future because it hadn't been accounted for, the Miramar frontage includes off-street space specifically for cycling/active transportation.

Historically, both the Saltaire development east of Johnston Road and the Miramar development on the west of Johnston Road were designed with off-street cycling facilities/lane. The lane in front of the Saltaire building was not constructed as I believe the developer appealed to the City to have it be customer parking instead to help with the leasability of the commercial spaces in the building

A project for upgrading Blackburn Crescent was included and carried over from budgets several years ago, but the budget is **much less than what is needed**. There is a request in the 2021 Financial Plan to increase funding from \$800K

to \$2.1M – this includes utility upgrades – Council can discussed the feasibility to move forward with this project and others during the 2021 Capital Budget discussions.

Usually, we have a public open house after budgets are approved and before we finalize designs and plan for construction. However, some of the residents have become impatient and are individually requesting that they review proposed designs. Staff have not agreed to this as we would like everyone to have an **equal opportunity for input**. We are now looking at ways we can schedule an electronic, COVID acceptable process for all residents **subsequent to budget approval** – If Council approves this project moving forward.

The proposed design consists of a standard 8.5m wide pavement with a sidewalk and parking on the north side of the road. This sidewalk connects to Ruth Johnson Park and will eventually connect to North Bluff Road when sidewalks are installed along High Street. Due to grade concerns, potential conflicts with driveways, and costs; there is no sidewalk planned for the south side of the road. Also, the road will likely be shifted slightly north to better accommodate grades and driveways. There is no specific bike lane proposed, instead “shareable” arrows will be painted on the road surface.

The sidewalks are proposed to be constructed on the north side of the road, immediately adjacent to the curb and gutter and parking lane. This will provide a safe dry “landing area” for those alighting from vehicles and address resident complaints about stepping into puddles on the road edge. As noted, the sidewalk will also provide connectivity in the short and long term.

Always happy to discuss further, but wanted to give you information now as Council has received a petition from neighbours in this area.

Thanks,
G.

GUILLERMO FERRERO

Chief Administrative Officer, City of White Rock

15322 Buena Vista Avenue, White Rock, BC V4B 1Y6

Tel: 604.541.2133 | www.whiterockcity.ca



From: Erika Johanson <EJohanson@whiterockcity.ca>

Sent: December 21, 2020 8:16 AM

To: Guillermo Ferrero <GFerrero@whiterockcity.ca>; Tracey Arthur <TArthur@whiterockcity.ca>

Cc: Mayor and Council <MayorandCouncil@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>

Subject: Re: Blackburn Crescent

Good morning!

The email below reminded me of the short bike path to nowhere that was installed on Thrift in front of the Bosa buildings. I would like to know why these are being put in and I request that we discuss this at the next possible Council meeting.

Regards,

Erika Johanson
Councillor
City of White Rock
778-867-9317

From: [Redacted S. 22]
Sent: Sunday, December 20, 2020 8:00:06 PM
To: Darryl Walker <DWalker@whiterockcity.ca>; David Chesney <DChesney@whiterockcity.ca>; Helen Fathers <HFathers@whiterockcity.ca>; Erika Johanson <EJohanson@whiterockcity.ca>; Scott Kristjanson <SKristjanson@whiterockcity.ca>; Anthony Manning <AManning@whiterockcity.ca>; Christopher Trevelyan <CTrevelyan@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: Blackburn Crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To White Rock Mayor, Council and White Rock Engineering:

[Redacted S. 22] and [Redacted S. 22] acted S. 22. On behalf of the overwhelming majority of the residents who reside on Blackburn Crescent between High Street and Archibald Road, I am forwarding our neighborhood's petition that expresses our shared concerns regarding proposed road repairs along Blackburn Crescent.

You may be aware that Blackburn Crescent between High Street and Archibald Road has been in need of resurfacing for many years. The pavement is cracked, rutted and it has deteriorated to an unacceptable condition. In addition, the roadway requires a major facelift along with catch basins to direct the water to the drains. After any significant rainfall, you will find many pools of water along our street and boulevard on both sides.

After several requests by many of the residents, the White Rock Engineering Department finally agreed to show us the drawings before they are to be finalized, but due to Covid, we were told this would not be possible until restrictions on group gatherings are lifted. Construction work would not happen until some time next year.

Many of us have expressed our concerns to the Engineering Department regarding the proposed addition of a sidewalk and bike lanes, and the corresponding increase in roadway width, but we feel our concerns and issues are being dismissed. It seems as if the decisions have been made, or will be made, without our neighborhood's input or opportunity to provide comments and feedback that be given a sincere hearing.

We do not understand why the residents can't be given an electronic copy of the preliminary plans so that we may provide comments. Details to underground works are not a concern to us. It is the size, shape, and alignment of the roadway and proposed sidewalk that will impact each of us in a large way that is our concern.

Blackburn Crescent residents trust that the attached petition is self explanatory and we are asking for an open, fair and sincere consideration of the issues. We look forward to your response.

On behalf of the undesigned residents of Blackburn Crescent,

Sincerely,

[Redacted S. 22]

[Redacted S. 22]

PS: Attached is an excerpt of the City of White Rock's Corporate Vision, Mission and Values which Council has committed to uphold for the Citizens of White White Rock:

1. Responsibility- always mindful of our responsibility to current and future generations and our environment.
Accountability- taking seriously the stewardship role our electors have bestowed on us, and communicating why we are doing what we are doing so that transparency of decision making is maximized.
Value- adopting innovative approaches to service delivery that assure the most value (return) for the least (investment) net cost to taxpayers
Community Participation in Government- maximize inclusivity and involvement in public decision making.

10

Debbie Johnstone

From: Corrine Haer
Sent: October 14, 2022 9:26 AM
To: Tracey Arthur
Subject: FW: Email from Mariane Adamson to Council and Externals | Blackburn Crescent

Hi Tracey, would you be able to help me locate the recent council motion on the Blackburn Crescent project?

Thank you,
Corrine

From: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Sent: October 13, 2022 3:32 PM
To: Corrine Haer <CHaer@whiterockcity.ca>; Chris Magnus <CMagnus@whiterockcity.ca>
Cc: Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Email from Mariane Adamson to Council and Externals | Blackburn Crescent

I'm pretty sure there is some council direction on this. It is controversial, and you are right, no one wants to lose their nice encroachments which are prevalent on one side of the road I think. I see if I can find some emails for your background, but Jim knows this very well.

Maybe worth to check with Tracey as I'm pretty sure there is a recent council motion on this.

G.

From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: October 13, 2022 3:06 PM
To: Guillermo Ferrero <GFerrero@whiterockcity.ca>; Chris Magnus <CMagnus@whiterockcity.ca>
Cc: Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Email from **Redacted S. 22** to Council and Externals | Blackburn Crescent

Hi G,

I understand Blackburn Crescent was a controversial project and therefore did not proceed when push came to shove. It was a project that included road improvements, drainage, sanitary and water work. I have attached a preliminary design drawing here that was created 2 years ago (although I would highly recommend we revisit this, as we shouldn't be responsible for replacing infrastructure that was built on City property without a permit).

My guess is residents were not happy with their fences/yards that have encroached onto City property being removed to support the project which in turn, halted the project all together. Perhaps discussion around the installation of the sidewalk was a concern as well.

I think re-engaging the residents would be a good idea so that we can better understand their concerns. What kind of approach would you prefer to initiate this again? Should this go to the new Council at some point for further discussion?

I was originally proposing to close out this project through the capital planning process this year since it was so controversial, but sounds like we should probably resurface it when the time is right.

Thanks,
Corrine

From: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Sent: October 5, 2022 9:07 AM
To: Chris Magnus <CMagnus@whiterockcity.ca>
Cc: Corrine Haer <CHaer@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>
Subject: RE: Email from **Redacted S. 22** to Council and Externals | Blackburn Crescent

Anthony responded and he is correct – the project is in the Capital Plan.

G.

GUILLERMO FERRERO

Chief Administrative Officer, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2133 | www.whiterockcity.ca



"An impossibility is only a possibility that you don't understand"

From: Chris Magnus <CMagnus@whiterockcity.ca>
Sent: October 5, 2022 9:05 AM
To: Guillermo Ferrero <GFerrero@whiterockcity.ca>
Subject: Email from **Redacted S. 22** to Council and Externals | Blackburn Crescent

Good morning G. For your review.

CHRIS MAGNUS

Executive Assistant to Mayor and CAO, City of White Rock
15322 Buena Vista Avenue, White Rock, BC V4B 1Y6
Tel: 604.541.2124 | www.whiterockcity.ca



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From: **Redacted S. 22**
Sent: October 5, 2022 9:01 AM
To: **Redacted S. 21** White Rock Council <whiterockcouncil@whiterockcity.ca>; Darryl Walker <DWalker@whiterockcity.ca>
Cc: **Redacted S. 22**
Redacted S. 22 | **Redacted S. 22**

Redacted S. 22

Subject: Re: Blackburn crescent

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Redacted S. 22
Thank you so much for your initiative on this matter. My Redacted S. 22 and I are in full agreement with the sentiment of your email to council. We have been repeatedly given conflicting information regarding the status of this project. The road at the west end of Blackburn crescent is disintegrating daily and this is before the annual rains arrive. The complete lack of storm sewer drains results in enormous lakes and run off that continually threatens the properties along that stretch. It is our sincerest hope that your email will galvanize the city to take action and uphold the original promise of road improvement.

Sincerely
Redacted S. 22

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From: Redacted S. 22
Sent: Tuesday, October 4, 2022 10:10:18 AM
To: whiterockcouncil@whiterockcity.ca <whiterockcouncil@whiterockcity.ca>; dwalker@whiterockcity.ca <dwalker@whiterockcity.ca>
Cc: Redacted S. 22

Redacted S. 22 Redacted S. 22

Subject: Blackburn crescent

....it appears that some of the recipient emails were contaminated, as such I am resending this email and apologize for inconvenience

Mayor Darryl Walker/council

As the election day is just around the corner, my mail box is flooded with election propaganda, people knocking on my door, signs all over the place and even nice people waving on the street corners.

Of course, all of this is done (I suppose) to reward all of you, on a job well done over the last four years. All of a sudden, a picture is painted that I/WE are important and that all of you care about me and my neighborhood. True enough, the all mighty little piece of paper on the voting day is of the utmost importance, but that's where it all stops. After all of you are seated (if you are seated) in your new/present roles, that's when real politics kick in. That's when lobby groups, influencers, petitions (legitimate or not) friends of friends, personal connections to city departments etc. etc. etc. take over. So please tell me, how important am I?

Having said that, quite frankly, **I am having a lot of difficulty with the part of a job well done.** Question that we all need to ask ourselves is, what have you done for us and our neighborhood.

Let me expand on this very important question.

In regards to the upgrade of **Blackburn cr** which is in total disrepair but at the same time one of the most travelled by both pedestrian and bicycle routes to the local park. This project has been in the works for the last twelve years or so, most recently plans were drawn up and work on project was to start pre covid but understandably so, it was delayed. As it stands now, my understanding is that this project has been cancelled. As I mentioned earlier, lobby groups, influencers and petitions, did their job. I guess, it's not all that important that our homes on the south side of the street are constantly flooded and that we need to spend considerable amounts of money to repair our side stairs and that our gardens are contaminated.

Malabar cr. that we back on to and is our access to our garages is a real scary place at night, there are no street lights other than our garden lights. unacceptable and unsafe!!!

Back to my question of what have you done for me and my neighbors, there is only but one answer, which is a **big fat zero!!!** Oh, my apologies, you did manage to raise my property taxes to an outrageous : 2021- \$13,444.05 to 2022- \$15,341.00!!!! cool \$1896.95 how could this humble local pensioner ever thank you.

In conclusion, who should I/we vote for? This is a very simple answer, **NONE OF YOU**, for a simple reason that you haven't done anything for us other than raise our property taxes, so why should we reward you for making our lives more difficult?

At this point I encourage all my neighbors to seriously consider taking the same measures when it comes to that all important election day.

If anyone of you can bring forward any information contrary to my believes and assure us that this project is still alive and work will start in the near future, I stand to be corrected and apologize for my misunderstanding.

Note: as I am redoing this email, I have received two responses from councilor Anthony Mannigan for which I thank him...

Best regards,

Redacted S. 22



P.S. out of some kind of fairness I did not send this email to Peace Arch news.

Debbie Johnstone

From: Corrine Haer
Sent: October 18, 2022 11:36 AM
To: Shannon Johnston
Subject: RE: Capital project 50030 and 45012

Hi Shannon,

Looping back on this, it looks like it will need to be capital contingency as Blackburn Crescent is now back up in the air due to a few recent emails from Guillermo and more drainage issues that I originally understood...

Do we have enough in capital contingency if I wrote a report that could potentially go forward in November 21 or December 5 if I have G's support?

Thanks,
Corrine

From: Shannon Johnston <shannon@whiterockcity.ca>
Sent: September 26, 2022 11:10 AM
To: Corrine Haer <CHaer@whiterockcity.ca>
Subject: RE: Capital project 50030 and 45012

Hi Corrine,

For the drainage fund shortfall you would either have to fund it from capital contingency or the Blackburn Crescent Archibald to High project. I would recommend transferring funding from the Blackburn Crescent project as it's budget is \$512K and you aren't moving forward with it.

Thanks Shannon

From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: September 26, 2022 9:03 AM
To: Shannon Johnston <shannon@whiterockcity.ca>
Subject: Capital project 50030 and 45012

Hi Shannon,

We have two tenders that we are ready to award. That said, we are short by about \$70Kish in the drainage account to award (but have enough in the sanitary account).

I will have to write a corporate report to award the project. Some ideas on how to fund the \$70Kish as follows but hoping you can help guide me to make the correct decision:

1. The values of the contracts are below, could we fund the extra from Sanitary and word this appropriately in the corporate report? Does this work since part of the sanitary project is funded from operating fund 0180?
2. Could we use drainage capital contingency? I think \$92K is remaining so that might make us a little tight but it is getting to the end of the year...

- I am proposing to close out Blackburn Crescent project where there is \$219K available in drainage capital WIP reserve, perhaps I can word the corporate report accordingly to use this (same as Columbia – haggood to parker project, not required anymore)

Project Breakdown Bid Summary:

Contractor	Methods	Sanitary w/o GST	Drainage w/o GST	Total Amount w/o GST
Sandpiper	Open Cut	s. 21		
PW Trenchless	Trenchless	s. 21		
<u>Subtotal</u>		<u>\$417,584.43</u>	<u>\$565,438.24</u>	<u>\$983,022.67</u>

Thanks,
 Corrine Haer, P.Eng.
 Manager, Engineering | City of White Rock
 877 Keil Street, White Rock, BC V4B 4V6
 Tel: 604.541.2188 | www.whiterockcity.ca



Debbie Johnstone

From: Lihua He
Sent: October 24, 2022 11:09 AM
To: Corrine Haer
Subject: FW: Blackburn Crescent between Archibald and High

Hi Corrine,

I have reviewed Drainage, Sewer, and Waste Master Plans and there is no improvement recommendation for this segment.

There is no recommendation from ITIMP as well while a city-wide cycling path is proposed by ITIMP along Blackburn in the western part and along Thrift in the eastern part of the city as highlighted in dark pink below:



Regards

Lihua He, P.Eng.
Project Engineer, City of White Rock

From: Lihua He
Sent: Thursday, October 13, 2022 3:37 PM
To: Corrine Haer <CHAer@whiterockcity.ca>
Subject: RE: Blackburn Crescent between Archibald and High

Hi Corrine,

Let me review the master plans and get back to you...

Lihua He, P.Eng.
Project Engineer, City of White Rock

From: Corrine Haer <CHAer@whiterockcity.ca>
Sent: Thursday, October 13, 2022 3:09 PM
To: Lihua He <LHe@whiterockcity.ca>
Subject: Blackburn Crescent between Archibald and High

Hi Lihua,

Please summarize what our drainage, sanitary and water master plans say for the infrastructure in this section.

Thank you,

Corrine Haer, P.Eng.

Manager, Engineering | City of White Rock

877 Keil Street, White Rock, BC V4B 4V6

Tel: 604.541.2188 | www.whiterockcity.ca



Debbie Johnstone

From: Corrine Haer
Sent: December 12, 2022 11:20 AM
To: Shannon Johnston; Jim Gordon; Kristian Davis; Justin Schneider; Elizabeth Keurvorst; John Stech
Cc: Navi Sihota; Candice Gartry
Subject: RE: Asset Budget Meeting - SLT Nov 25

Hi Shannon,

Not many edits required (sounds like we are almost there, hope the meeting with Council goes well)!

Here is the list of edits:

1. Prospect Clock Tower (project 75159)
 - a. needs an additional \$70K on top of the originally approved \$55K
2. Cenotaph Flame Renewal – MH
3. 1174 Fir Street Window and Building Membrane – MH
4. 1174 Fir Street Ventilation Fan – MH
5. Pier Restoration Completion – MH
6. Buena Vista – 15367 Buena Vista
 - a. NTH in both GF and DF
7. Blackburn Crescent – Archibald to High
 - a. Can be MH in GF, DF, WF and SF
 - b. Can stay in 2023
8. Martin – Buena Vista to Victoria
 - a. MH in SF and GF
9. Surface Protection of the White Rock
 - a. Should be CF per my conversation with Jim
10. Habgood – Pacific to Columbia
 - a. MH in DF (condition is bad)
11. Watermain Upgrade – 1500 Habgood
 - a. Just received updated quote for this one, should be \$420K in construction, \$50K consulting
 - b. Therefore 2023 amounts will need to be increased
 - c. Disregard my comment to move this out, as this is a MH project that seriously requires re/re due to so many leaks/repairs completed to date on this main

Cheers,
Corrine

From: Shannon Johnston <shannon@whiterockcity.ca>
Sent: December 7, 2022 5:49 PM
To: Corrine Haer <CHaer@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Kristian Davis <KDavis@whiterockcity.ca>; Justin Schneider <JSchneider@whiterockcity.ca>; Elizabeth Keurvorst <EKeurvorst@whiterockcity.ca>; John Stech <jstech@whiterockcity.ca>
Cc: Navi Sihota <NSihota@whiterockcity.ca>; Candice Gartry <cgartry@whiterockcity.ca>
Subject: RE: Asset Budget Meeting - SLT Nov 25

Hi all,

I have updated the asset presentation spreadsheet for all of Engineering and Rec & Cultures changes, please refer to attached file. There are a few projects that do not have a NTH or MH comment, the cells are highlighted in yellow that still require them. I have also made comments related to a number of the road projects as the different funds had different NTH versus MH comments, these cells all have red letters in them, and added a few questions in the department comments column L. I believe I have captured everything but can you please take a look to make sure I haven't missed anything and update any cells that still need updating or answer the questions that I still have. Elizabeth I have included you and John on this as there are some overlaps and I also did change some of the responsibilities around for your projects, these cells are also highlighted in yellow.

It is at the point that I can't keep making changes so after this round unless there is something significant I don't plan on making any further changes. Please get this back to me by Monday noon. Let me know if you have any questions.

Thanks Shannon

From: Corrine Haer <CHaer@whiterockcity.ca>
Sent: December 1, 2022 4:15 PM
To: Shannon Johnston <shannon@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Kristian Davis <KDavis@whiterockcity.ca>
Cc: Navi Sihota <NSihota@whiterockcity.ca>; Candice Gartry <cgartry@whiterockcity.ca>
Subject: RE: Asset Budget Meeting - SLT Nov 25

Hi Shannon,

Please find attached presentation spreadsheet with my comments for all the GF, Sani, Drainage, Water, etc.

Additionally, I noticed these were missing and need to be added to the program:

24	Annex Auditorium - Additional Ventilation Fan	NEW	GF	VT	
	Clock Tower	75159	GF	VT	
	Facility Lighting Replacements	70609	GF	VT	

Thank you,
 Corrine

From: Corrine Haer
Sent: November 30, 2022 4:48 PM
To: Shannon Johnston <shannon@whiterockcity.ca>; Jim Gordon <JGordon@whiterockcity.ca>; Kristian Davis <KDavis@whiterockcity.ca>
Cc: Navi Sihota <NSihota@whiterockcity.ca>; Candice Gartry <cgartry@whiterockcity.ca>
Subject: RE: Asset Budget Meeting - SLT Nov 25

Hi Shannon,

The presentation package attached has comments in it for Water and the General Fund. I still need to look at Drainage/Sanitary, which I will aim to do tomorrow.

That said, in my review I noticed that a project or two were missing a request of ours (ie clock tower was missing the extra funds required for 2023), and I haven't had a time to check every project submitted in the New, Existing Changes spreadsheet to ensure its captured in the presentation package. I would like to do this tomorrow to ensure nothing has been missed.

Thanks,
Corrine

From: Shannon Johnston <shannon@whiterockcity.ca>
Sent: November 25, 2022 5:10 PM
To: Jim Gordon <JGordon@whiterockcity.ca>; Corrine Haer <CHaer@whiterockcity.ca>; Kristian Davis <KDavis@whiterockcity.ca>
Cc: Navi Sihota <NSihota@whiterockcity.ca>; Candice Gartry <cgartry@whiterockcity.ca>
Subject: RE: Asset Budget Meeting - SLT Nov 25

Hi Jim,

Please see attached email that I just sent out to yourself and a few others after this afternoon's meeting, let me know if you need clarification on anything. It includes instructions and the updated spreadsheet.

Thanks Shannon

From: Jim Gordon <JGordon@whiterockcity.ca>
Sent: November 25, 2022 3:11 PM
To: Corrine Haer <CHaer@whiterockcity.ca>; Shannon Johnston <shannon@whiterockcity.ca>; Kristian Davis <KDavis@whiterockcity.ca>
Cc: Navi Sihota <NSihota@whiterockcity.ca>; Candice Gartry <cgartry@whiterockcity.ca>
Subject: Asset Budget Meeting - SLT Nov 25

Hi Shannon,

Could you please email Corrine, Kristian and me the budget sheets that we discussed at SLT today so Corrine can start to work on some of the changes. I understand that they are needed by next Wed. Thanks

Hi Corrine,

Could you please:

1. Water Fund – Please select appropriate projects to push out to later years so we can address the infrastructure reserve balances shown on page 2. These balances need to be at least \$1m. For example the reserve in 2024 is 337,875 and in 2025 it is a deficit of 563,525.
2. Needs & Wants – Please add a column to the spreadsheets for Needs and Wants. I expect most of our infrastructure projects are Needs.

Hi Kristian,

Could you please:

1. Vehicles – How much are the deposits for the electric vehicles and what is the delivery timeline? Shannon will put the deposits in the 2023 budget and the purchase in the later budget.

2. Recreation Vehicle – Recreation would like a vehicle for assisting with event setup. I am not sure that this can be justified as they can ask ahead and we can provide a vehicle for various events. Elizabeth will provide further information. We need to be sure that we need a new vehicle and cannot just use a “ghost vehicle” or used vehicle for the infrequent trips.

Thanks all,

Jim

Jim Gordon P.Eng.
Director of Engineering and Municipal Operations,
City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2181 | www.whiterockcity.ca



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Debbie Johnstone

From: Corrine Haer
Sent: April 12, 2023 9:30 AM
To: Redacted S. 22
Subject: Blackburn Crescent - preliminary design drawings
Attachments: Blackburn Cres - Preliminary - Drawings for discussion.pdf

Hi Redacted S. 22

As discussed, please see attached preliminary design drawings for the Blackburn Crescent project. This has been on hold a couple years, but was included in the 2023 Financial Plan for Council's endorsement.

Cheers,

Corrine Haer, P.Eng.
Manager, Engineering | City of White Rock
877 Keil Street, White Rock, BC V4B 4V6
Tel: 604.541.2188 | www.whiterockcity.ca



SHEET SET PATH: P:\2020\20-0063\100 - CAP PRELIM\0001 - CAP PRELIM\0001 - BLACKBURN.CRIST

CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

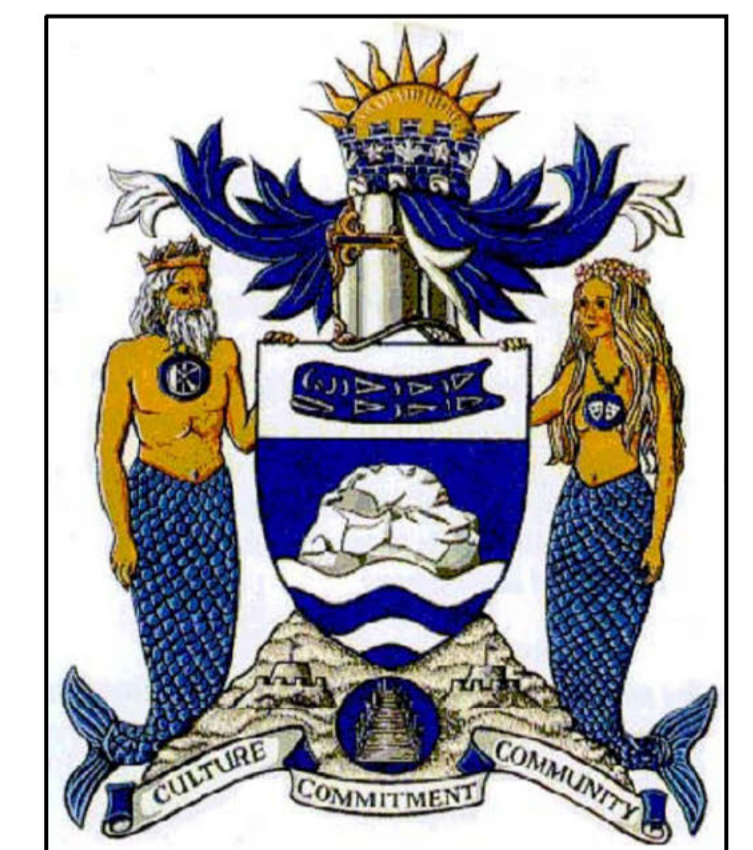
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS PRELIMINARY DESIGN

LEGEND					
EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION
		IRON PROPERTY PIN			WATERMAIN
		BUILDING			WATER SERVICE CONNECTION
		EDGE OF PAVEMENT			WATER VALVE
		CURB & GUTTER			AIR VALVE
		TRUCK ROUTE			HYDRANT & VALVE ASSEMBLY
		SANITARY SEWER			YARD HYDRANT
		SANITARY CONNECTION & INSPECTION CHAMBER			CAPPED END
		STORM SEWER			WATER METER
		STORM CONNECTION & INSPECTION CHAMBER			BLOW-OFF
		STORM SEWER SERVICE			UNDERGROUND TELEPHONE & TELEPHONE BOOTH
		FRENCH DRAIN			UNDERGROUND ELECTRICAL AND MANHOLE
		STORM SEWER & CLEANOUT			GASMAIN
		CATCH BASIN - TOP INLET & SIDE INLET			TRAFFIC SIGNAL & STREET LIGHT U/G DUCTS
		LAWN DRAIN			ORNAMENTAL STREET LIGHT - DAVIT
		CATCH BASIN MANHOLE			ORNAMENTAL STREET LIGHT - POST TOP
		SWALE			UTILITY POLE
		DITCH			UTILITY POLE W/ LIGHT
		SIDEWALK (ASPHALT)			JUNCTION BOX
		SIDEWALK (CONCRETE)			GROUND ELEVATION
					DIRECTION OF OVERLAND FLOW
					CATHODIC PROTECTION ANODE

DRAWING INDEX			
DRAWING TYPE	LOCATION	DRAWING NO.	SHEET NO.
NOTES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-N	01
DETAILS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-D	02
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-1	03
ROADWORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-R1-2	04
PAVEMENT MARKING AND SIGNAGE	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-PM1-1	05
WATER SERVICE UPGRADES	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-WS1-1	06
SANITARY SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-SA1-1	07
STORM SEWER	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-ST1-1	08
CONDUIT WORKS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-EL1-1	09
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-1	10
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-2	11
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-3	12
CROSS SECTIONS	BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET	20-0063-XS1-4	13



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SHEET PART 1 - 2020-07-20 2:26:46 PM FILE: P:\2020\07-20\0063 - C&U PRELIMINARY DESIGN - BLACKBURN CRES - BLACKBURN_CRES.DWG

GENERAL NOTES:

ALL WORK MUST BE IN ACCORDANCE WITH THE SPECIFICATIONS AND STANDARD DETAIL DRAWINGS OF THE LATEST EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND THE CITY OF WHITE ROCK REQUIREMENTS, WHERE THERE IS A CONFLICT BETWEEN STANDARDS, AND WHERE NO SPECIFIC REFERENCE HAS BEEN MADE ON THE PLANS OR SPECIFICATIONS, THE MORE STRINGENT STANDARD SHALL GOVERN. THE CONTRACTOR SHALL CONTACT THE CONTRACT ADMINISTRATOR FOR ANY CLARIFICATIONS REQUIRED.

1. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 2 BUSINESS DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND VERIFY THAT THE CONTRACTOR'S DRAWINGS ARE THE LATEST REVISIONS ISSUED FOR CONSTRUCTION. ANY REVISIONS TO ISSUED FOR CONSTRUCTION DRAWINGS MUST BE APPROVED BY THE ENGINEER.
2. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS AND/OR PERMITS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE CONTRACTOR SHALL CHECK WITH BC HYDRO, TELUS, SHAW, FORTIS BC, METRO VANCOUVER OR ANY OTHER APPLICABLE THIRD-PARTY UTILITY AGENCY PRIOR TO COMMENCING WORK FOR VERIFICATION OF LOCATION AND INVERTS OF ALL UTILITIES.
3. ALL MATERIALS TESTING MUST BE CONDUCTED IN ACCORDANCE WITH MMCD AND AS SPECIFIED, WHERE APPLICABLE. TESTING SHALL BE CARRIED OUT BY A QUALIFIED MATERIALS TESTING FIRM AND PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE COPIES OF ALL TEST RESULTS TO THE ENGINEER NO LATER THAN 3 BUSINESS DAYS AFTER ANY TEST CONDUCTED. ANY MATERIAL SUBSTITUTION MUST BE APPROVED BY THE CONTRACT ADMINISTRATOR.
4. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL REPAIR OF ANY DAMAGE CAUSED TO EXISTING STREET OR SERVICES BY CONSTRUCTION EQUIPMENT AND/OR TRUCKS HAULING MATERIAL TO THE SITE, OR AS A RESULT OF CONSTRUCTION ACTIVITIES SUCH AS DAILY CLEANING OR SWEEPING EXISTING ROADS OF DIRT AND DEBRIS CAUSED. SUCH REPAIR SHALL BE TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
6. THE CONTRACTOR SHALL AND MUST VERIFY THE LOCATIONS, INVERTS, AND SIZES OF ALL EXISTING SERVICES, INCLUDING THE TIE-IN POINTS, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OR CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS.
7. OPEN TRENCH OPERATIONS IN EXISTING PAVEMENT SHALL BE VERTICAL, AND PAVEMENT SHALL BE RESTORED WITH HOT-MIX ASPHALT AFTER BACKFILL AND COMPACTION WITHIN 48 HOURS OF TRENCH WORK. TRENCH RESTORATION WITH COLD-MIX ASPHALT SHALL NOT BE ACCEPTED. NO TRENCHES IN EXISTING ROADWAYS SHALL BE LEFT UNCOVERED OVERNIGHT WITHOUT APPROVAL OF THE CITY OF WHITE ROCK AND FULFILLMENT OF ANY CONDITIONS OF THAT APPROVAL.
8. ALL PAVEMENTS, BOULEVARDS, ETC. SHALL BE RESTORED TO ORIGINAL CONDITIONS OR BETTER WHERE NO IMPROVEMENT IS PROPOSED UNDER THIS CONTRACT.
9. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES, AND ANY SERVICES DISTURBED SHALL BE REPLACED TO THE SATISFACTION OF THE CITY OF WHITE ROCK OR OTHER APPROVING AGENCIES.
10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE AND EXPOSE ALL EXISTING SANITARY, STORM SEWERS, SERVICE CONNECTIONS, WATERMAIN, GAS MAIN, UNDERGROUND ELECTRICAL AND/OR TELEPHONE DUCTING, STREET LIGHTING AND ALL OTHER EXISTING UNDERGROUND UTILITIES AT ALL TIE-IN LOCATIONS AND ALL LOCATIONS WHERE THEY MAY CROSS OR COME INTO CLOSE PROXIMITY WITH THE PROPOSED WORKS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
11. JUNCTION BOXES, VALVE COVERS, MANHOLE FRAMES AND COVERS WITHIN THE PAVED ROADWAY SHALL BE LEFT LOW AT THE BASE LEVEL AT TIME THE BASE COURSE (BOTTOM LIFT) OF ASPHALT IS INSTALLED AND RAISED JUST PRIOR TO THE TOP COURSE (FINAL LIFT) OF PAVING.
12. SIGNS IN CONCRETE AREAS SHALL BE INSTALLED USING ROUND SIGN POST SLEEVE. ALL OTHER SIGNS (e.g., SIGNS WITHIN BOULEVARD) SHALL BE INSTALLED USING TRAPEZOIDAL BASES.
13. THE LOCATIONS OF EXISTING UNDERGROUND SERVICES, IF SHOWN, HAVE BEEN OBTAINED THROUGH MUNICIPAL AND/OR AGENCY RECORD INFORMATION, AND THE ENGINEER CANNOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS INFORMATION.

ROADWORKS NOTES:

1. CHANGES OF GRADE AND DIRECTION SHALL BE FORMED BY SMOOTH VERTICAL AND HORIZONTAL CURVES.
2. EARTHWORKS, INCLUDING STRIPPING ALL LOOSE OR OTHERWISE DELETERIOUS MATERIALS OR SOFT SPOTS, COMPACTING, AND SLOPE GRADING SHALL BE COMPLETED AS PER CONTRACT DOCUMENTS.
3. EMBANKMENTS SHALL BE PLACED, SHAPED, COMPACTED, AND PROTECTED TO STANDARDS AND SPECIFICATIONS AS REQUIRED IN THE CONTRACT DOCUMENTS.

4. WHERE INFILLING OF EXISTING DITCHES ETC. IS REQUIRED, AND WHERE SERVICES ARE CONSTRUCTED IN FILL SECTION, FILL MATERIAL SHALL BE GRANULAR MATERIAL, SUPPLIED, PLACED AND COMPACTED AS PER MMCD SPECIFICATION.
5. ALL SUB-BASE ROAD AND GRANULAR BASE MATERIALS SHALL CONFORM TO MMCD SPECIFICATION.
6. THE ROAD SUB-BASE AND BASE SHALL EXTEND A MINIMUM OF 0.3 METERS BEYOND ROAD EDGE OR CURB AND GUTTER.
7. THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL CONFORM WITH THE SPECIFICATIONS DETAILED UNDER THE MMCD AND CITY OF WHITE ROCK SUPPLEMENTARY SPECIFICATIONS AND DETAIL DRAWINGS, IF APPLICABLE.
8. BENKELMAN BEAM TESTING OF THE ROAD BASE IS REQUIRED PRIOR TO PAVING.
9. UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR, ASPHALTIC CONCRETE FOR ROADWORK SHALL BE PLACED AND COMPACTED TO THE SPECIFIED DENSITIES IN 2 SEPARATE LIFTS.
10. TIE-INS TO EXISTING PAVEMENT SHALL BE MADE BY CUTTING BACK THE EXISTING PAVEMENT TO SOUND MATERIAL AS NECESSARY TO PRODUCE A NEAT VERTICAL FACE. PRIOR TO PLACING ASPHALTIC CONCRETE, EXPOSED PAVEMENT FACES AND OTHER ABUTTING STRUCTURES SHALL BE TACK COATED WITH ASPHALT EMULSION.
11. ALL NEW PAVEMENT SHALL BE GRADED SUCH THAT NO PONDING FORMS. THE MINIMUM CROSS SLOPE ON ANY NEW OR OVERLAIN ROAD SURFACE SHALL BE 2%.
12. ALL VALVES BOXES, MANHOLES, ETC., THAT ARE WITHIN THE PAVED SURFACE OF THE ROADWAY SHALL BE ADJUSTED TO FINISHED COURSE ELEVATION PRIOR TO FINISH COURSE PAVING.

WATER NOTES:

1. TIE-INS OF NEW WATERMANS AND SERVICES TO LIVE MAINS, AFTER TESTING AND CHLORINATION, SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER'S INSPECTOR AND THE OBSERVATION OF THE OWNER'S REPRESENTATIVE. ALL PIPES AND FITTINGS USED FOR FINAL CONNECTIONS MUST BE SWABBED AND CLEANED WITH 100ppm SOLUTION.
2. PRIOR TO INSTALLATION OF NEW SERVICES, THE CONTRACTOR SHALL EXPOSE EXISTING SERVICE CONNECTIONS TO CONFIRM THE SIZE AND LOCATION OF SERVICES.
3. ALL NEW WATERMANS SHALL BE CAPPED 1.5m FROM TIE-IN POINTS TO EXISTING WATERMANS TO HAVE TEST POINTS SET UP, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS. TIE-IN POINTS SHALL BE CONFIRMED DURING PRE-EXCAVATION. THE PROPOSED WATERMAIN SHALL BE SET AT LINE AND GRADE TO MEET THE EXISTING WATERMAIN. TIE-IN POINTS SHALL INCLUDE TEST POINTS AS PER DETAIL ON THIS SHEET.
4. ALL RESIDENTIAL SERVICE CONNECTION PIPES SHALL BE MINIMUM OF 38mm DIAMETER POLYETHYLENE PRESSURE CLASS 200 UNLESS OTHERWISE SPECIFIED.
5. ALL FITTINGS SHALL BE D.I. TYTON JOINTS UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE STAINLESS STEEL.
6. ALL FITTINGS AND VALVES SHALL BE RESTRAINED. ALL TEMPORARY FITTINGS FOR PRESSURE TESTING SHALL BE RESTRAINED.
7. TEST POINTS SHALL BE SIZED TO ALLOW FLUSHING VELOCITY OF 0.8 m/s.
8. WHEN THE WATERMAIN IS CLOSER THAN 0.5m VERTICALLY OR 3.0m HORIZONTALLY TO A SEWER (STORM OR SANITARY) BUT IS ABOVE THE SEWER, THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. IF THE ABOVE IS NOT ATTAINABLE, THE JOINTS SHALL BE WRAPPED WITH HEAT SHRINK PLASTIC OR PACKED WITH COMPOUND AND WRAPPED WITH DENSOTAPE.
9. WHEN THE WATERMAIN IS BENEATH THE SEWER, THERE SHALL BE A MINIMUM OF 300mm SEPARATION. THE WATERMAIN SHALL BE LAID IN SUCH A MANNER THAT THE CROSSING IS MADE MIDWAY BETWEEN THE JOINTS ON A FULL LENGTH OF PIPE. WATERMAIN JOINTS WITHIN 3.0m OF THE CROSSING SHALL BE WRAPPED AS NOTED ABOVE.
9. ACCEPTABLE STANDARDS ARE ANSI/AWWA C214 (FACTORY APPLIED), ANSI/AWWA C209 (FIELD APPLIED), AND ANSI/AWWA C217-90 (PETROLATUM TAPE). ALL MATERIALS USED SHALL HAVE ZERO HEALTH HAZARD.
10. THE CONTRACTOR SHALL ENSURE THE WATERMAIN AND SERVICE CONNECTIONS ARE TESTED AND CHLORINATED PRIOR TO ANY TIE-IN WORKS (MAINS AND CONNECTIONS). CONTRACTOR SHALL HIRE QUALIFIED THIRD PARTY TO PERFORM TESTING. PRESSURE TESTING AND MICROBIOLOGY SAMPLING RESULTS SHALL BE SIGNED-OFF BY THE CONSULTANT WITNESSING THE TESTS AND SUBMITTED TO THE CITY PRIOR TO FINAL COMPLETION OF THE TIE-INS.
11. ALL NEW SERVICE CONNECTIONS SHALL BE POLYETHYLENE COMPLETE WITH 14

- GAUGE COPPER COATED TRACER WIRE, SAMPLE TESTED. THE CONTRACTOR MUST CONTACT THE MANUFACTURER TO REVIEW INSTALLATION PROCEDURE.
12. ALL VALVE BOXES SHALL BE NELSON STYLE. ANY VALVE BOX OUTSIDE OF A TRAVELLED ROAD SHALL HAVE A 500mmØ ASPHALT APRON PLACED AROUND IT.
 13. ALL AIR RELEASE VENTS, STAND PIPES, ETC. SHALL BE FORD ENGINE BLUE.
 14. ENSURE OPERATION OF HYDRANT ISOLATION VALVE SHALL NOT BE IMPEDED BY PROXIMITY OF HYDRANT.
 15. RESTRAIN WATERMAIN AT JOINTS AS REQUIRED FOR SEISMIC ZONES.

SANITARY AND STORM SEWER NOTES:

1. THE CONTRACTOR SHALL ADJUST ALL MANHOLES, CLEANOUTS, VALVE COVERS, JUNCTION BOXES, INSPECTION CHAMBERS, AND OTHER UTILITY COVERS WITHIN PROPOSED WORKS TO SUIT PROPOSED FINISH GRADES. ALL MANHOLE LIDS, CLEAN-OUT COVERS, CATCH/LAWN BASIN GRATES AND THE SURFACE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.
2. THE CONTRACTOR SHALL REFER TO CONTRACT DRAWINGS FOR TYPICAL TRENCH DETAIL AND PAVEMENT RESTORATION.
3. UNLESS NOTED OTHERWISE ON THE DRAWINGS, THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING SANITARY AND STORM SEWER SYSTEM AS NOTED.
4. ALL SANITARY AND STORM SEWER MATERIALS SHALL CONFORM TO THE MMCD SPECIFICATIONS.
5. ALL PIPES (MAIN SEWER AND SERVICE CONNECTIONS) SHALL BE INSTALLED WITH GASKET JOINTS.
6. ALL PIPE SIZES SHOWN OR SPECIFIED REFER TO MINIMUM INSIDE DIAMETER DIMENSIONS.
7. ALL MANHOLES SHALL BE AS PER MMCD STANDARD DRAWING NO. S2 AND SIZED AS PER MMCD STANDARD DRAWING NO. S1, UNLESS SPECIFIED OTHERWISE.
8. THE CONTRACTOR SHALL ESTABLISH LOCATIONS, ELEVATIONS AND ALIGNMENTS OF ALL EXISTING SANITARY AND DRAINAGE SERVICES PRIOR TO CONSTRUCTION TO FACILITATE TIE-INS. ANY DISCREPANCIES WITH THE INFORMATION SHOWN THAT MAY ALTER THE DESIGN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR CONTRACT ADMINISTRATOR.
9. ALL SANITARY AND STORM SEWER MAIN DEFLECTIONS SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS.
10. ALL WYES SHALL BE MANUFACTURED.
11. THE CONTRACTOR SHALL FLUSH ALL NEW SANITARY AND STORM LINES PRIOR TO TIE-IN PROCEDURES. TESTS SHALL BE PERFORMED AS PER MMCD SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE THE CONTRACT ADMINISTRATOR WITH THE TEST RESULTS.
12. THE CONTRACTOR SHALL PROVIDE A VIDEO INSPECTION REPORT FOR ALL NEW MAINLINE SANITARY AND STORM SEWERS. THE VIDEO INSPECTION MUST BE PERFORMED BY A "PACP" CERTIFIED OPERATOR AND APPROVED BY THE CONTRACT ADMINISTRATOR.
13. THE CONTRACTOR SHALL PROVIDE TEMPORARY PUMP OR DISPOSAL OF EXISTING SEWAGE FLOWS DURING CONSTRUCTION PERIOD. THIS OPERATION SHALL BE CONSIDERED INCIDENTAL TO THE WORK HEREIN.
14. THE CONTRACTOR SHALL EXPOSE AND VERIFY ALL UTILITY CROSSINGS AND/OR TIE-IN LOCATIONS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO CONSTRUCTION. GAS MAIN AND HYDRANT LEAD CROSSINGS MAY REQUIRE RE-GRADING.
15. ALL CATCH BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S11. ALL CATCH BASINS LEADS SHALL BE 200mm DIAMETER PVC SDR 35 PIPE, UNLESS SPECIFIED OTHERWISE. ALL CATCH BASIN GRATES SHALL BE DOBNEY B26-B FOR FRAMES IN CENTRE OF THE ROAD AND DOBNEY B23 OR 24 FOR FRAMES NEXT TO CURBS. ALL CATCH BASIN SHALL BE EQUIPPED WITH APPROVED TRAPPING HOODS. BENDS SHALL NOT BE PERMITTED IN PLACE OF TRAPPING HOODS.
16. ALL LAWN BASINS SHALL BE AS PER MMCD STANDARD DRAWING NO. S12, EXCEPT CONCRETE BARREL TO BE 450mm DIAMETER. LAWN BASIN LEADS TO BE 100mm DIAMETER PVC SDR 35 OR 28 PIPE.
17. ALL MANHOLE LIDS, CLEANOUT COVERS, CATCH BASIN GRATES, LAWN BASIN GRATES AND THE LIDS OF ANY OTHER UTILITY STRUCTURES SHALL BE INSTALLED TO SUIT PROPOSED FINISHED GRADES.

PAVEMENT MARKING NOTES:

1. ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCD).
2. ALL PAVEMENT MARKING LINES AND SYMBOLS SHALL BE THERMOPLASTIC.

EROSION, SEDIMENT AND DUST CONTROL NOTES:

1. THE CONTRACTOR SHALL ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER EXISTING STORM SEWER, CREEKS OR WATERS BODIES.
2. STORM CATCH BASINS SHALL HAVE TEMPORARY FILTER FABRIC INSTALLED TO PROHIBIT ENTRANCE OF SEDIMENT INTO THE CITY STORM SEWERS DURING CONSTRUCTION. FILTER FABRIC SHALL BE MAINTAINED UNTIL ALL RESTORATION HAS BEEN COMPLETED AND REMOVED UPON THE COMPLETION OF CONSTRUCTION.
3. THE CONTRACTOR SHALL KEEP THE CITY ROADS CLEAN DURING CONSTRUCTION TO THE SATISFACTION OF CITY OF WHITE ROCK. IN THE EVENT THAT THE CITY OF WHITE ROCK SENDS OUT THEIR STREET SWEEPERS TO CLEAN A ROAD IMPACTED BY THE CONSTRUCTION AND NOT ADEQUATELY CLEANED BY THE CONTRACTOR, THE COSTS FOR SUCH STREET CLEANING SHALL BE CHARGED TO THE CONTRACTOR AND DEDUCTED FROM MONTHLY PAYMENT CERTIFICATES.
4. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP THE DUST TO LEVELS ACCEPTABLE TO THE CITY OF WHITE ROCK AND SAFE TO THE PUBLIC.
5. THE COST OF ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING BUT NOT LIMITED TO MAINTENANCE, REMOVAL, STREET CLEANING AND DUST CONTROL, SHALL BE INCLUDED IN THE CONTRACTOR'S PRICE FOR THE WORK WITH NO ADDITIONAL COST TO THE CITY.

RESTORATION NOTES:

1. THE CONTRACTOR SHALL RESTORE AREAS DISTURBED BY CONSTRUCTION TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE ENGINEER (OR THE CONTRACT ADMINISTRATOR) AND THE CITY OF WHITE ROCK.
2. THE CONTRACTOR SHALL RESTORE EXISTING ASPHALT ACCORDING TO THE CONTRACT DRAWINGS.
3. ALL EXISTING GRASSED AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD AND MAINTAINED UNTIL ESTABLISHED, UNLESS OTHERWISE NOTED ON CONTRACT DRAWINGS FOR A SPECIFIC AREA.
4. THE CONTRACTOR SHALL IDENTIFY ANY TREES TO BE REMOVED AND OBTAIN APPROVAL FROM THE CITY OF WHITE ROCK PRIOR TO CUTTING.
5. ALL RESTORATION WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR AND THE CITY OF WHITE ROCK.

RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS:

1. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF ALL CIVIL WORKS DRAWINGS MARKED UP WITH UPDATES OF CHANGES IN RED COLOUR ON A DAILY BASIS IN ORDER TO RECORD THE CONSTRUCTED LOCATION OF ALL UTILITIES AND SERVICES, ROAD WORKS AND ALL OTHER CIVIL WORKS.
2. THE CONTRACTOR SHALL MAKE THE MARKED-UP SET IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS' AVAILABLE ON SITE TO THE ENGINEER, CONTRACT ADMINISTRATOR OR OWNER FOR THEIR REVIEW AT ALL TIMES UPON REQUEST.
3. THE CONTRACTOR SHALL PROVIDE FIELD SURVEY DURING THE COURSE OF CONSTRUCTION TO DOCUMENT AND RECORD HORIZONTAL AND VERTICAL INFORMATION ON ALL UNDERGROUND INSTALLATIONS OF MAIN, SERVICE CONNECTIONS, CHAMBERS, MANHOLES, APPURTENANCES, STRUCTURES, AND FURNISHINGS. THE CONTRACTOR SHALL, BY MEANS OF SURVEY, RECORD THE VERTICAL AND HORIZONTAL INFORMATION OF ALL UNDERGROUND UTILITIES AS THEY ARE INSTALLED. THE CONTRACTOR SHALL CONDUCT A RECORD DRAWING TOPOGRAPHICAL SURVEY AFTER CONSTRUCTION IS COMPLETE AND RECORD ALL SURFACE FEATURES AS-CONSTRUCTED.
4. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER (R.F. BINNIE & ASSOCIATES LTD.) WITH THE FOLLOWING TWO ITEMS (4A AND 4B):
 - A. A SOFT OR HARD COPY OF FINAL MARKED-UP DRAWINGS SET CONTAINING A CLEAR RECORD OF ALL AND ANY CHANGES OR DEVIATIONS MADE DURING CONSTRUCTION FROM THE LATEST REVISION OF ISSUED FOR CONSTRUCTION DRAWINGS DESCRIBED ABOVE IN NOTE 1 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS', AND
 - B. A DIGITAL COPY OF SURVEY FILE CONTAINING ALL AS-CONSTRUCTED FEATURES DESCRIBED ABOVE IN NOTE 3 UNDER 'RECORD DOCUMENTS - CONTRACTOR'S OBLIGATIONS'.

DRAFT

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BINNIE.com

CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET NOTES

SURVEYED BY	N/A
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	NOT TO SCALE

DATE	2020-01-28
DRAWING No.	20-0063-N
SHEET	01 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

PLOTTED: 2020-08-20 2:26:46 PM FILE: P:\2020\07-20\0063 - C&U PRELIMINARY DESIGN - BLACKBURN_CRES - BLACKBURN_CRES.DWG

BENCHMARK:
 MONUMENT 88H3843 LOCATED AT INTERSECTION
 OF BLACKBURN CRESCENT AND HIGH STREET
 ELEV. 80.132M

GENERAL NOTES - PAVEMENT MARKING

- ALL PAVEMENT MARKINGS AND SIGNS SHALL BE AS PER THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR CANADA (MUTCDC).
- ALL PAVEMENT MARKING LINES AND SYMBOLS SHALL BE THERMOPLASTIC.

KEY NOTES

- (A)** INSTALL STOP BAR (400mm WIDE) AS PER FIGURE C1-2 OF MUTCDC (5TH EDITION).
- (B)** INSTALL SHARED USE LANE ("SHARROW") SYMBOL AS PER FIGURE C1-10 OF MUTCDC (5TH EDITION).
- (C)** INSTALL SINGLE SOLID YELLOW LINE (100mm WIDE) AS PER FIGURE C1-1 OF MUTCDC (5TH EDITION).

FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.



FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.

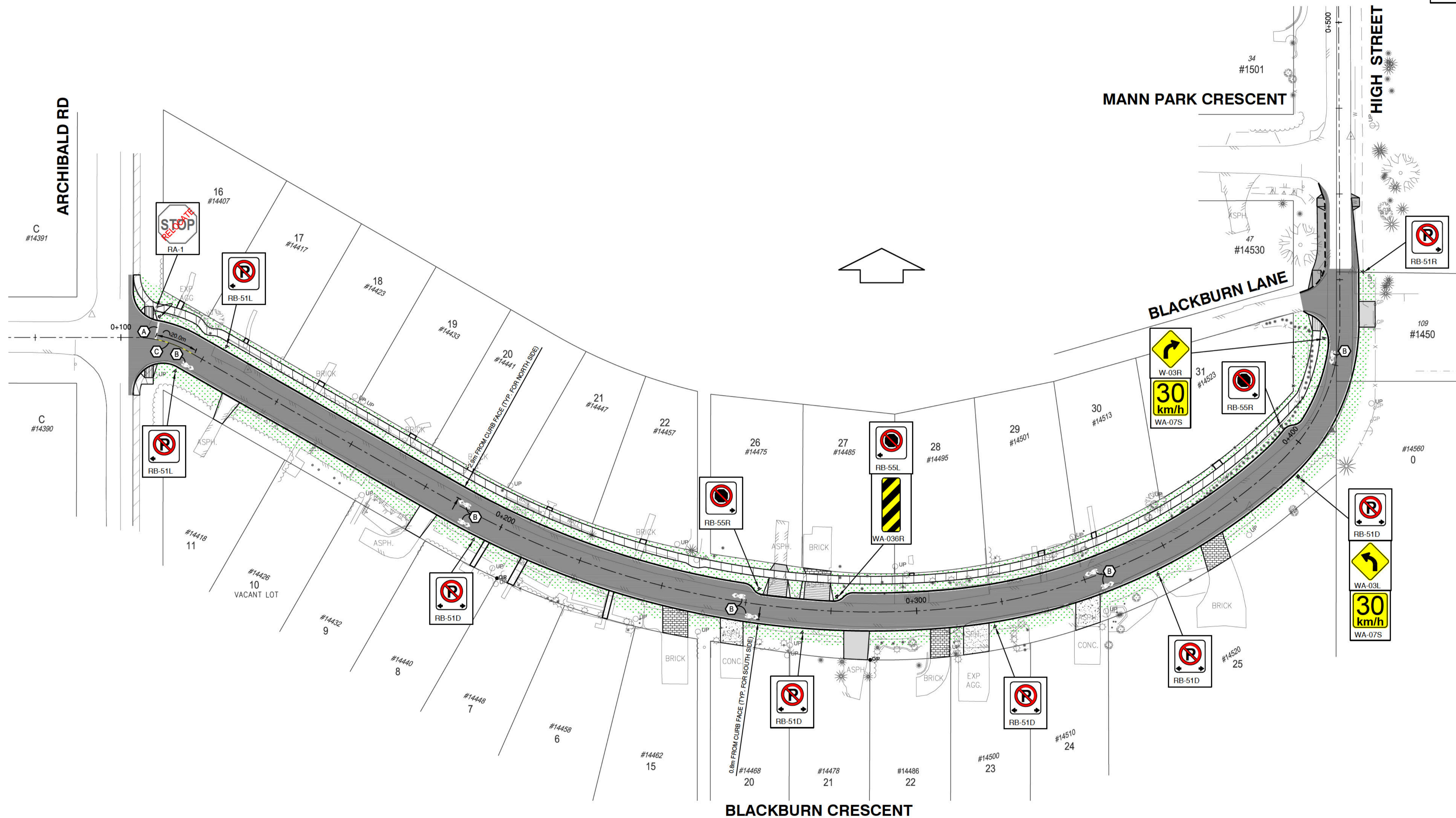
FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.

FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.

FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL1-1.

LEGEND

-  EXISTING SIGN - SHOWN IN GRAY ONLY
EXAMPLE: RB-51B
-  PROPOSED SIGN - SHOWN IN COLOUR
EXAMPLE: RB-55B



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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

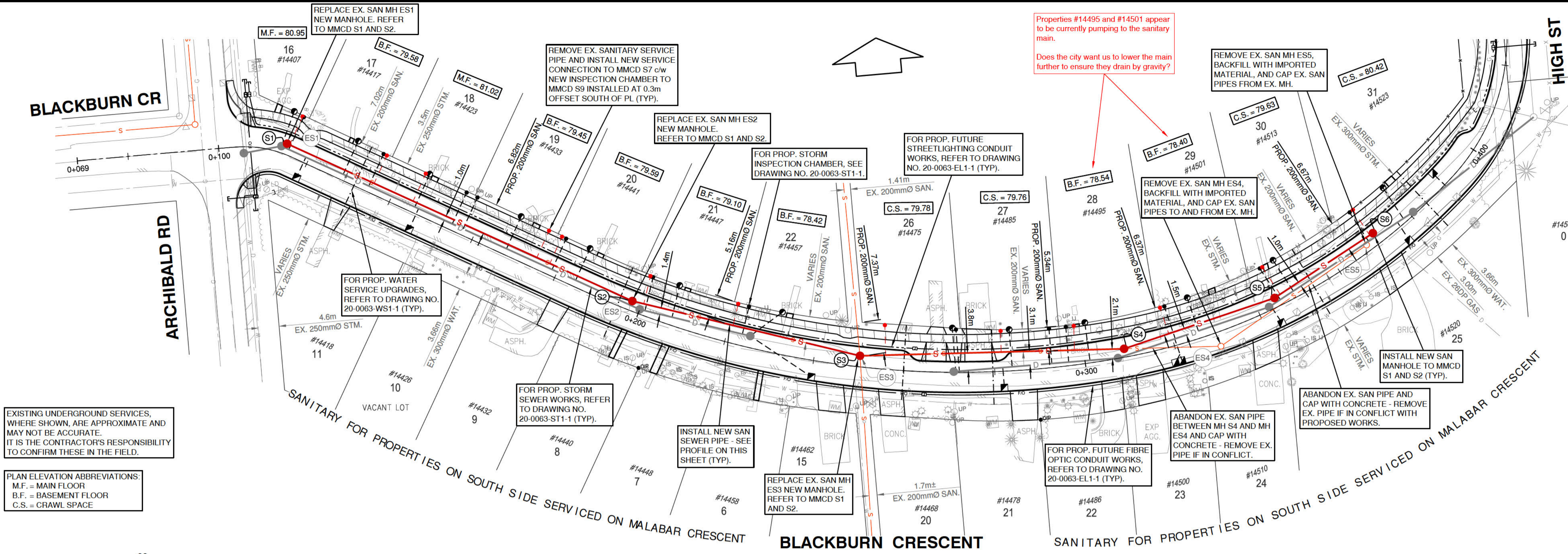


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 TEL 604 574 3336
 BINNIE.com

CLIENT	CITY OF WHITE ROCK 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
DRAWING DESCRIPTION	BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET PAVEMENT MARKING AND SIGNAGE
SURVEYED BY	TA
DRAWN BY	SV
DESIGNED BY	NM
CHECKED BY	RA
SCALES	0 1:500 20m

DATE	2020-07-20
DRAWING No.	20-0063-PM1-1
SHEET	05 OF 13
REV.	2
DESTROY ALL PRINTS BEARING PREVIOUS No.	

SHEET SET PLAN: 20-0063-S1-01 - SANITARY SEWER - ARCHIBALD RD - MALABAR CRES
 DATE: 2020-08-24 2:21:22 PM USER: MCL/ALD
 FILE: I:\2020\20-0063-S1-01 - SANITARY SEWER - ARCHIBALD RD - MALABAR CRES.dwg



Properties #14495 and #14501 appear to be currently pumping to the sanitary main.
 Does the city want us to lower the main further to ensure they drain by gravity?

BENCHMARK:
 MONUMENT 89H3843 LOCATED AT INTERSECTION OF BLACKBURN CRESCENT AND HIGH STREET ELEV. 80.132M

GENERAL NOTES - SANITARY SEWER

- UNLESS OTHERWISE NOTED, ALL SANITARY SERVICES SHALL BE 100mmØ PVC DR28 SLOPED DOWN AT MIN. 2% FROM PROPERTY LINE (PL) TOWARD PROPOSED SANITARY MAIN TO MMCD S7.
 - CONTRACTOR SHALL FIND ALL EXISTING LIVE SANITARY SERVICE CONNECTIONS OF PROPERTIES AND CONNECT THEM TO THE PROPOSED SANITARY SYSTEM c/w NEW INSPECTION CHAMBER AT 0.3m FROM PL TO MMCD S9.
 - PROPOSED SANITARY SYSTEM (SEWERS AND MANHOLES) SHALL BE FLUSHED CLEAN UPON COMPLETION OF INSTALLATION.
 - CCTV INSPECTION REPORTS COMPLETE WITH VIDEO FILES SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR.
 - UTILITY TRENCHES SHALL BE AS PER MMCD G4.
 - CONTRACTOR SHALL COORDINATE WITH THE CITY OF WHITE ROCK FOR EXPECTED SANITARY FLOWS AND PROVIDE THE CONTRACT ADMINISTRATOR WITH A BY-PASS PLAN AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
 - CONTRACTOR SHALL EXPOSE AND VERIFY THE LOCATION AND ELEVATIONS OF ALL UTILITY CROSSINGS AND TIE-IN POINTS AND NOTIFY THE CONTRACT ADMINISTRATOR OF ANY DISCREPANCIES.
- FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.
 FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.
 FOR PROPOSED CONDUIT WORKS, REFER TO DRAWING NO. 20-0063-EL1-1.
 FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.
 FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.

EXISTING UNDERGROUND SERVICES, WHERE SHOWN, ARE APPROXIMATE AND MAY NOT BE ACCURATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THESE IN THE FIELD.
 PLAN ELEVATION ABBREVIATIONS:
 M.F. = MAIN FLOOR
 B.F. = BASEMENT FLOOR
 C.S. = CRAWL SPACE

STATION	PROF. INVERT ELEVATION	EX. INVERT ELEVATION	STATION ALONG BASELINE
0+100			0+100
0+114.3	78.660 SE	78.660 SE	0+114.3
0+120			0+120
0+140			0+140
0+160	PROP. 83.43m-200mmØ PVC SDR35 SAN. @ 0.73%	EX. 200Ø SAN.	0+160
0+180			0+180
0+197.81	78.050 NW 78.030 E	78.050 NW 78.030 E	0+197.81
0+220	PROP. 51.48m-200mmØ PVC SDR35 SAN. @ 0.91%	EX. 200Ø SAN.	0+220
0+240			0+240
0+250.04	77.560 W 77.540 S 77.640 E 77.650 N	77.560 W 77.540 S 77.640 E 77.650 N	0+250.04
0+260			0+260
0+280	PROP. 58.09m-200mmØ PVC SDR35 SAN. @ -0.35%	EX. 200Ø SAN.	0+280
0+300			0+300
0+308.96	77.773 W 77.773 E	77.773 W 77.773 E	0+308.96
0+320	PROP. 34.91m-200mmØ PVC SDR35 SAN. @ -0.40%	EX. 200Ø SAN.	0+320
0+320.60			0+320.60
0+340	77.913 W 77.913 NE	78.290 W 78.310 NE	0+340
0+344.52			0+344.52
0+360	PROP. 25.90m-200mmØ PVC SDR35 SAN. @ -1.00%	EX. 200Ø SAN.	0+360
0+369.22			0+369.22
0+376.96	78.172 SW	78.905 SW	0+376.96
0+380			0+380
0+400			0+400
0+420			0+420

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No.	DATE	REVISION	BY
2	2020-08-24	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM

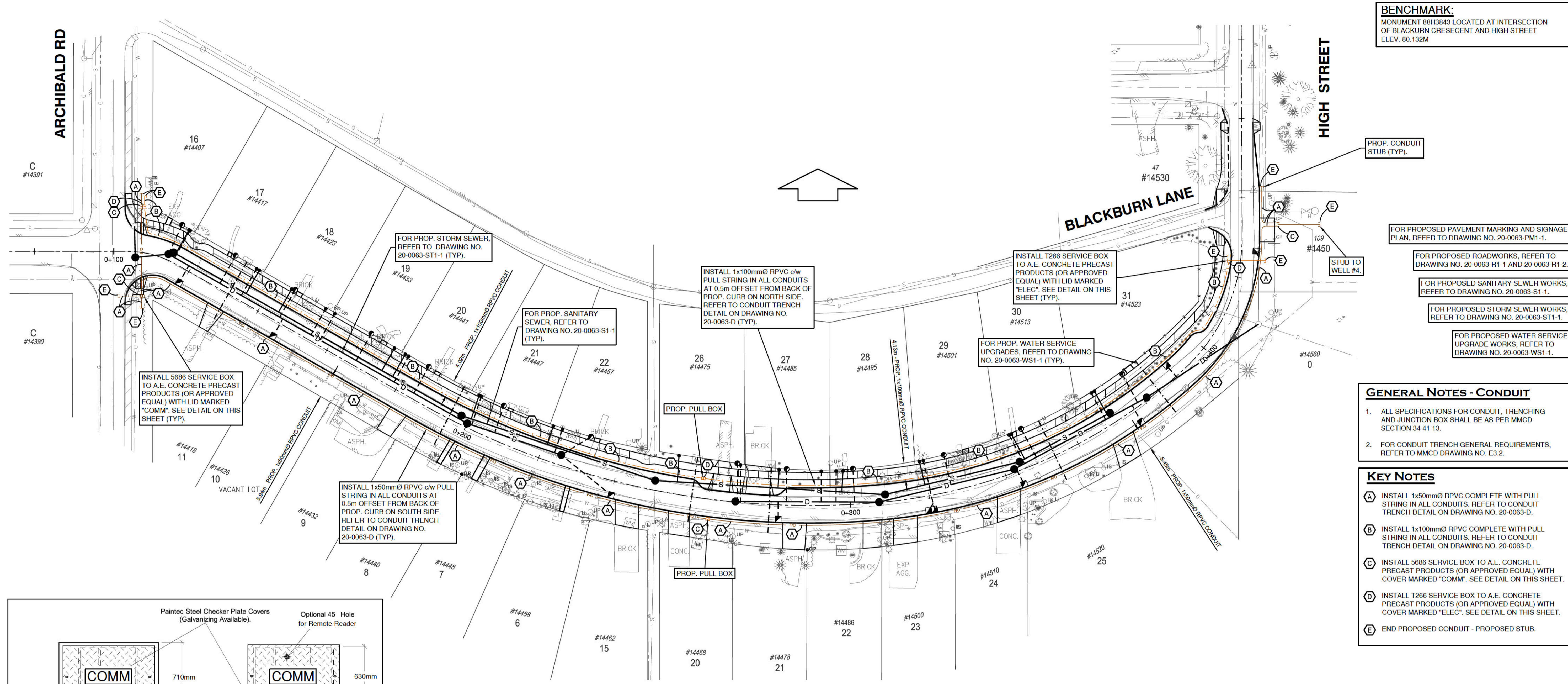


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CLIENT: CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6
 DRAWING DESCRIPTION: BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
 BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
 SANITARY SEWER

SURVEYED BY: TA
 DRAWN BY: SV
 DESIGNED BY: RANM
 CHECKED BY: RA
 SCALES: H 1:500 20m, V 1:50 2m

DATE: 2020-01-28
 DRAWING No.: 20-0063-S1-1
 SHEET 07 OF 13
 REV. 2
 DESTROY ALL PRINTS BEARING PREVIOUS No.

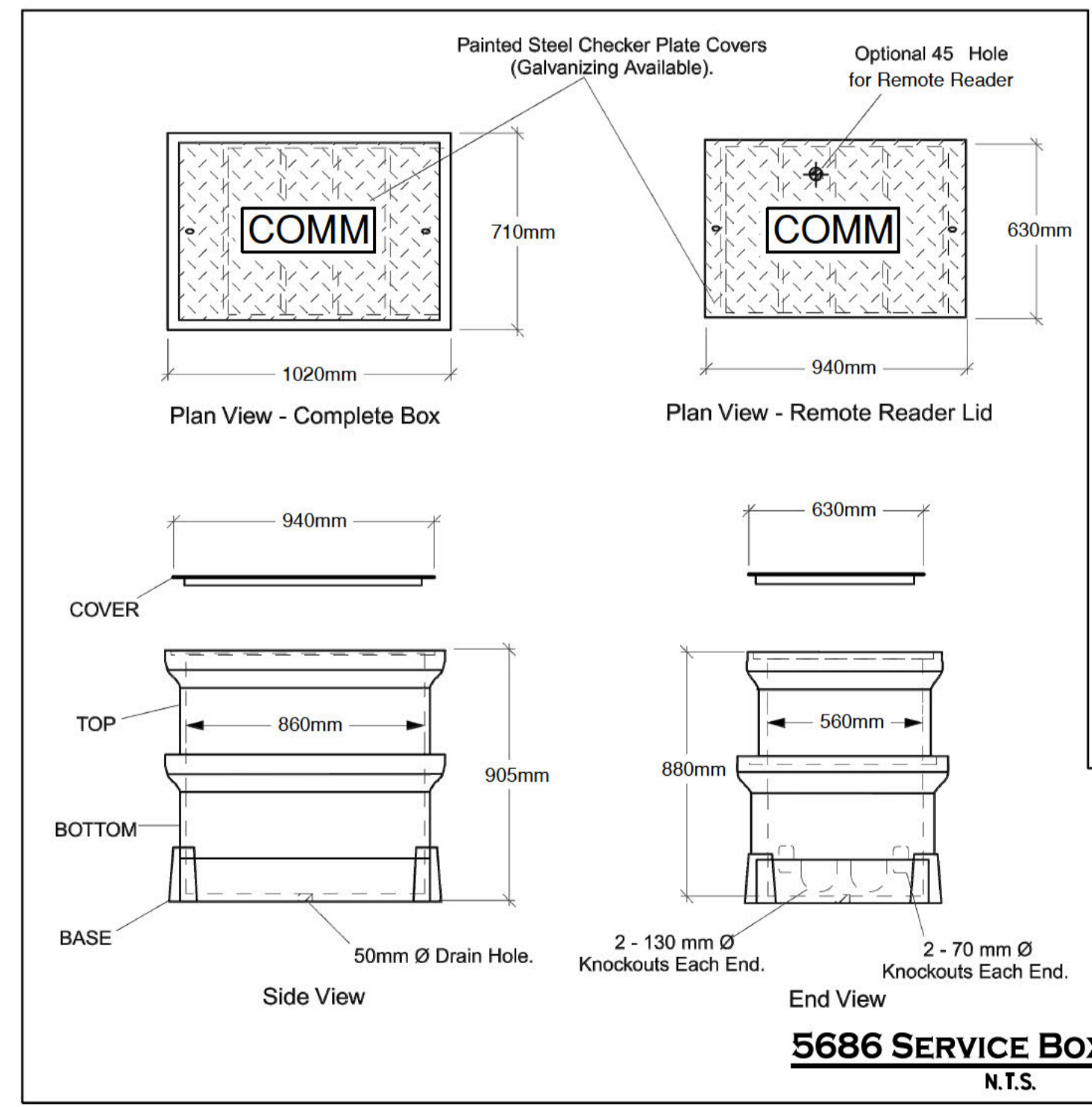


BENCHMARK:
MONUMENT 89H3843 LOCATED AT INTERSECTION
OF BLACKBURN CRESCENT AND HIGH STREET
ELEV. 80.132M

- FOR PROPOSED PAVEMENT MARKING AND SIGNAGE PLAN, REFER TO DRAWING NO. 20-0063-PM1-1.
- FOR PROPOSED ROADWORKS, REFER TO DRAWING NO. 20-0063-R1-1 AND 20-0063-R1-2.
- FOR PROPOSED SANITARY SEWER WORKS, REFER TO DRAWING NO. 20-0063-S1-1.
- FOR PROPOSED STORM SEWER WORKS, REFER TO DRAWING NO. 20-0063-ST1-1.
- FOR PROPOSED WATER SERVICE UPGRADE WORKS, REFER TO DRAWING NO. 20-0063-WS1-1.

- GENERAL NOTES - CONDUIT**
1. ALL SPECIFICATIONS FOR CONDUIT, TRENCHING AND JUNCTION BOX SHALL BE AS PER MMCD SECTION 34 41 13.
 2. FOR CONDUIT TRENCH GENERAL REQUIREMENTS, REFER TO MMCD DRAWING NO. E3.2.

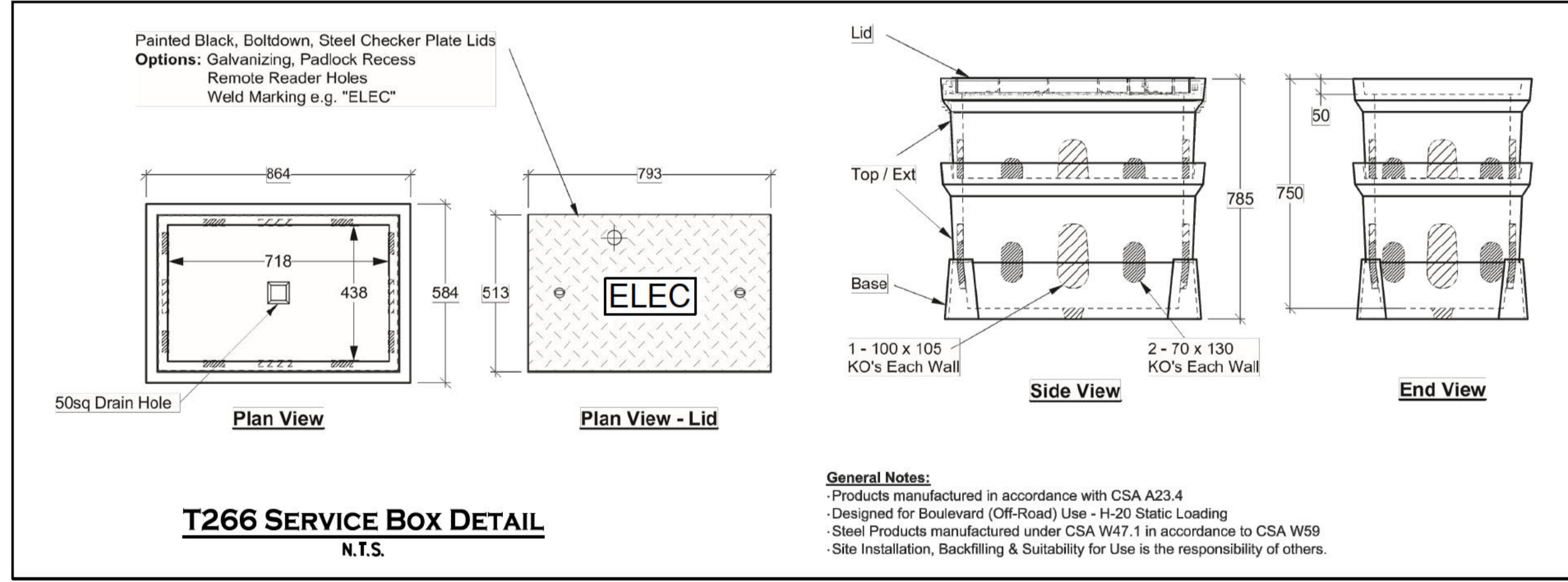
- KEY NOTES**
- (A) INSTALL 1x50mmØ RPVC COMPLETE WITH PULL STRING IN ALL CONDUITS. REFER TO CONDUIT TRENCH DETAIL ON DRAWING NO. 20-0063-D.
 - (B) INSTALL 1x100mmØ RPVC COMPLETE WITH PULL STRING IN ALL CONDUITS. REFER TO CONDUIT TRENCH DETAIL ON DRAWING NO. 20-0063-D.
 - (C) INSTALL 5886 SERVICE BOX TO A.E. CONCRETE PRECAST PRODUCTS (OR APPROVED EQUAL) WITH COVER MARKED "COMM". SEE DETAIL ON THIS SHEET.
 - (D) INSTALL T266 SERVICE BOX TO A.E. CONCRETE PRECAST PRODUCTS (OR APPROVED EQUAL) WITH COVER MARKED "ELEC". SEE DETAIL ON THIS SHEET.
 - (E) END PROPOSED CONDUIT - PROPOSED STUB.



General Notes:

- Cement to CAN / CSA A5-93 Portland Cement.
- Inside dimensions 860 x 560 x 880 mm deep.
- Site installation and backfilling as shown on Contract Drawings.
- Cement to CAN / CSA A5-93 Portland Cement.
- Optional lid with 45mm Ø opening (positioned as shown) for remote reader sensors.

Weights
Cover: 41 kg / 90 lbs.
Top: 77 kg / 170 lbs.
Bottom: 75 kg / 165 lbs.
Base: 57 kg / 125 lbs.



General Notes:

- Products manufactured in accordance with CSA A23.4
- Designed for Boulevard (Off-Road) Use - H-20 Static Loading
- Steel Products manufactured under CSA W47.1 in accordance to CSA W59
- Site Installation, Backfilling & Suitability for Use is the responsibility of others.

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No.	DATE	REVISION	BY
1	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM

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CLIENT
CITY OF WHITE ROCK
877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CONDUIT WORKS

SURVEYED BY TA
DRAWN BY NM
DESIGNED BY NM
CHECKED BY RA

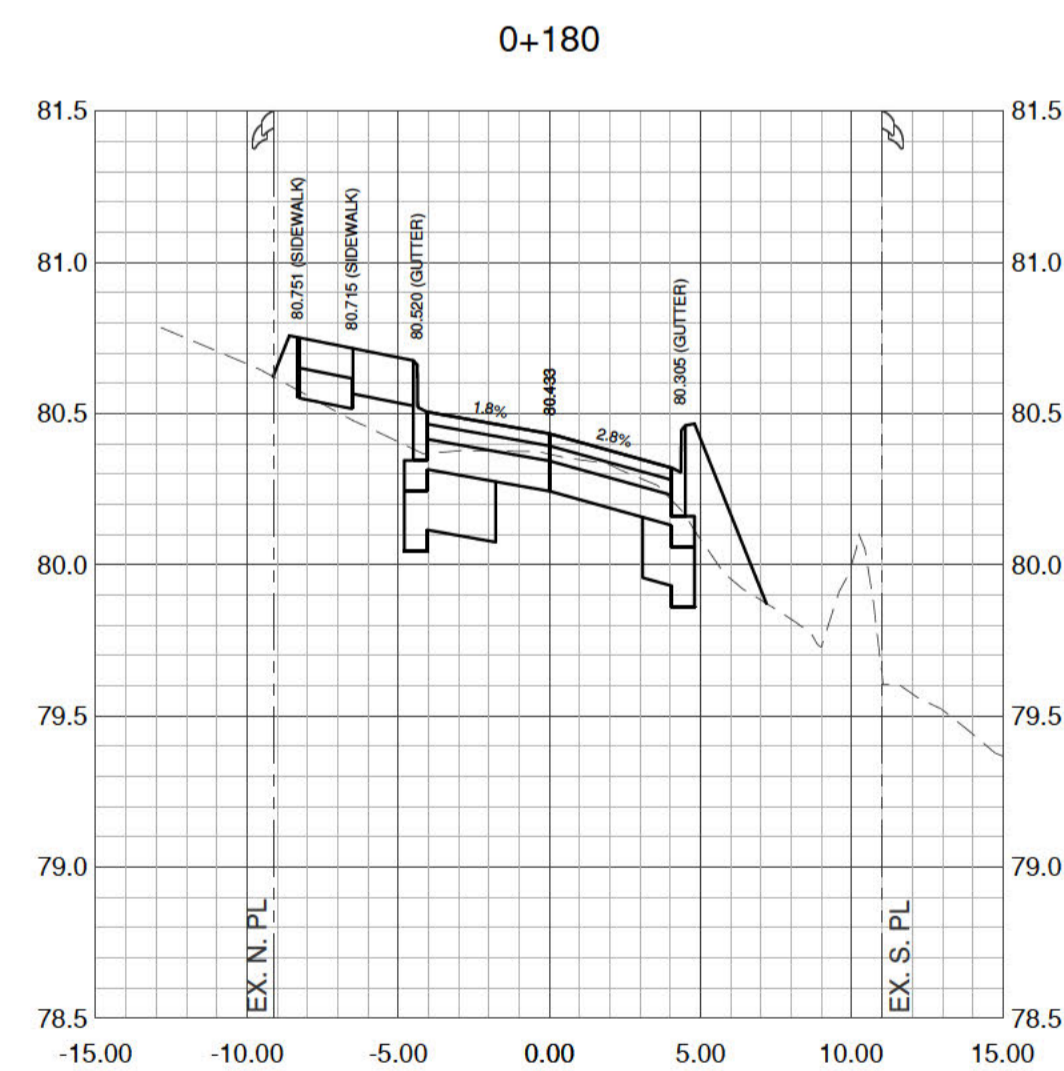
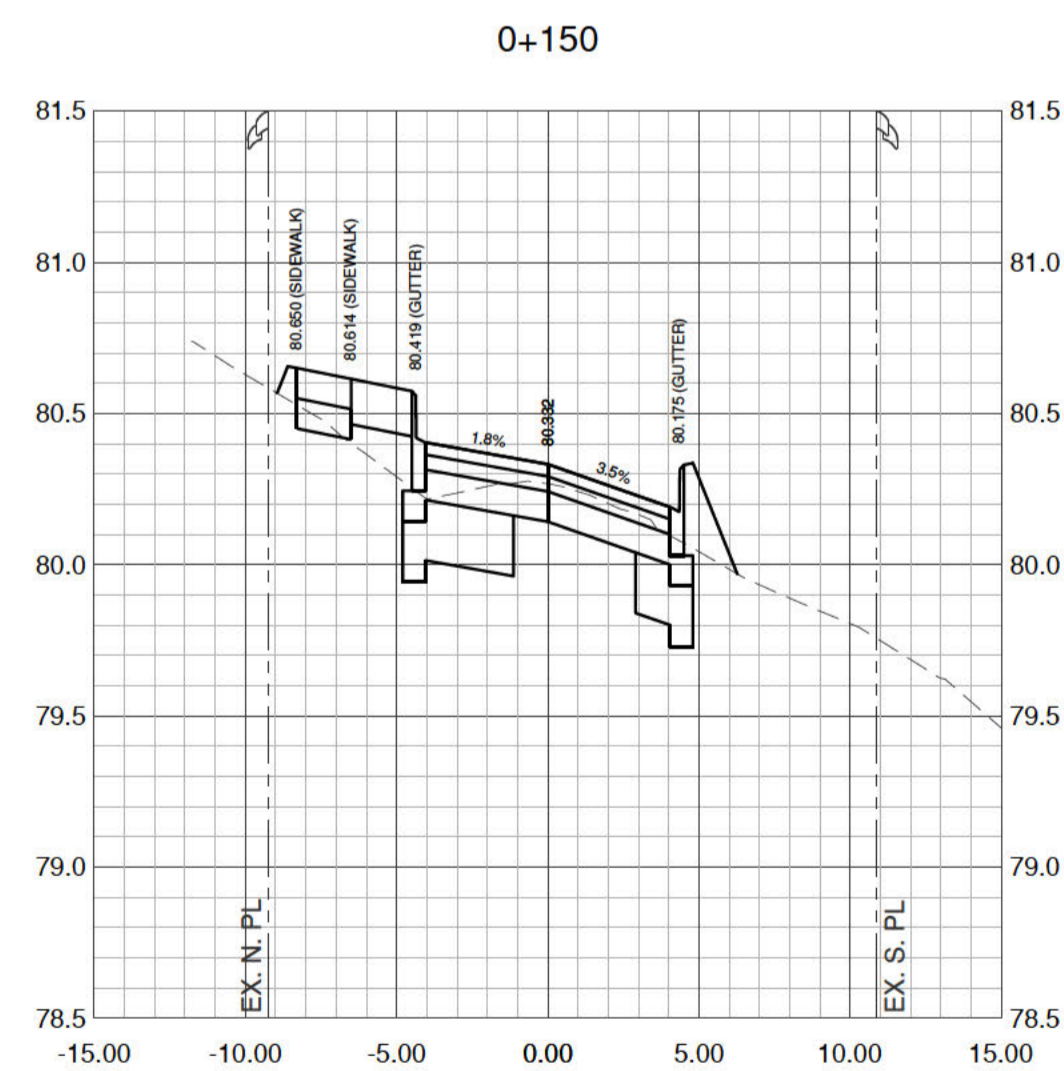
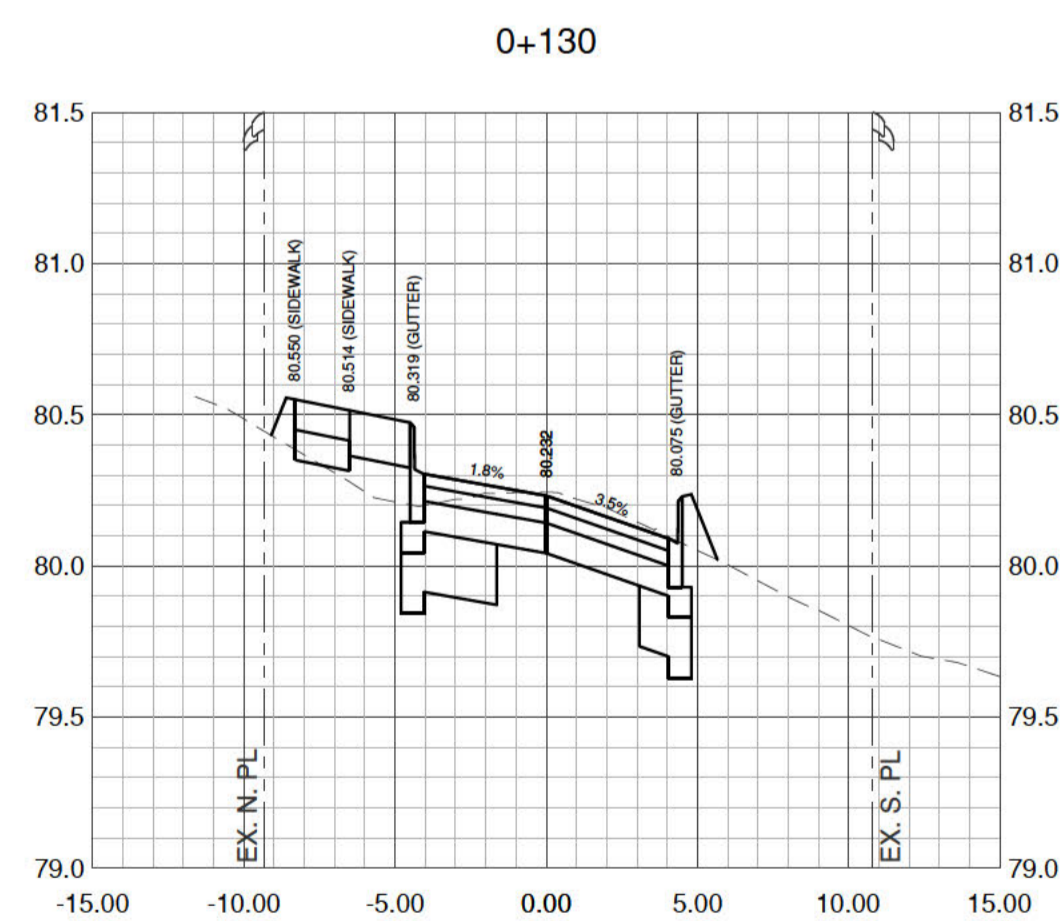
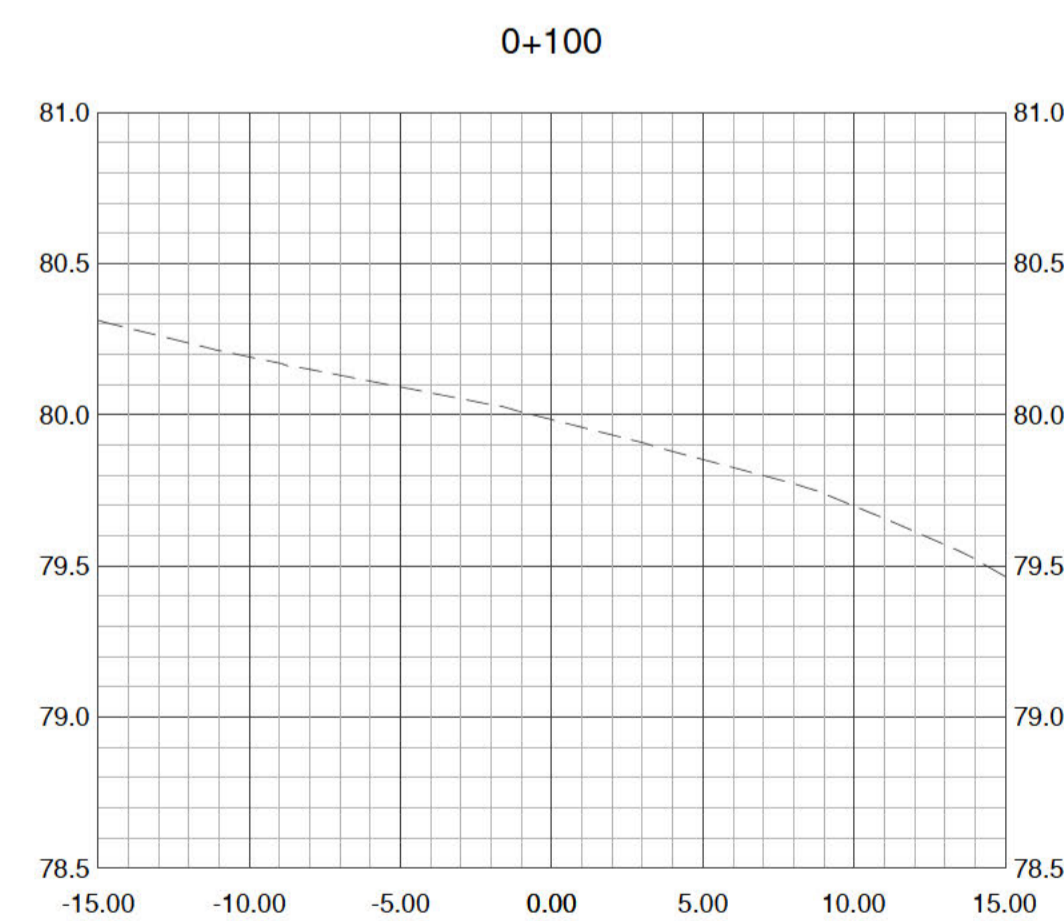
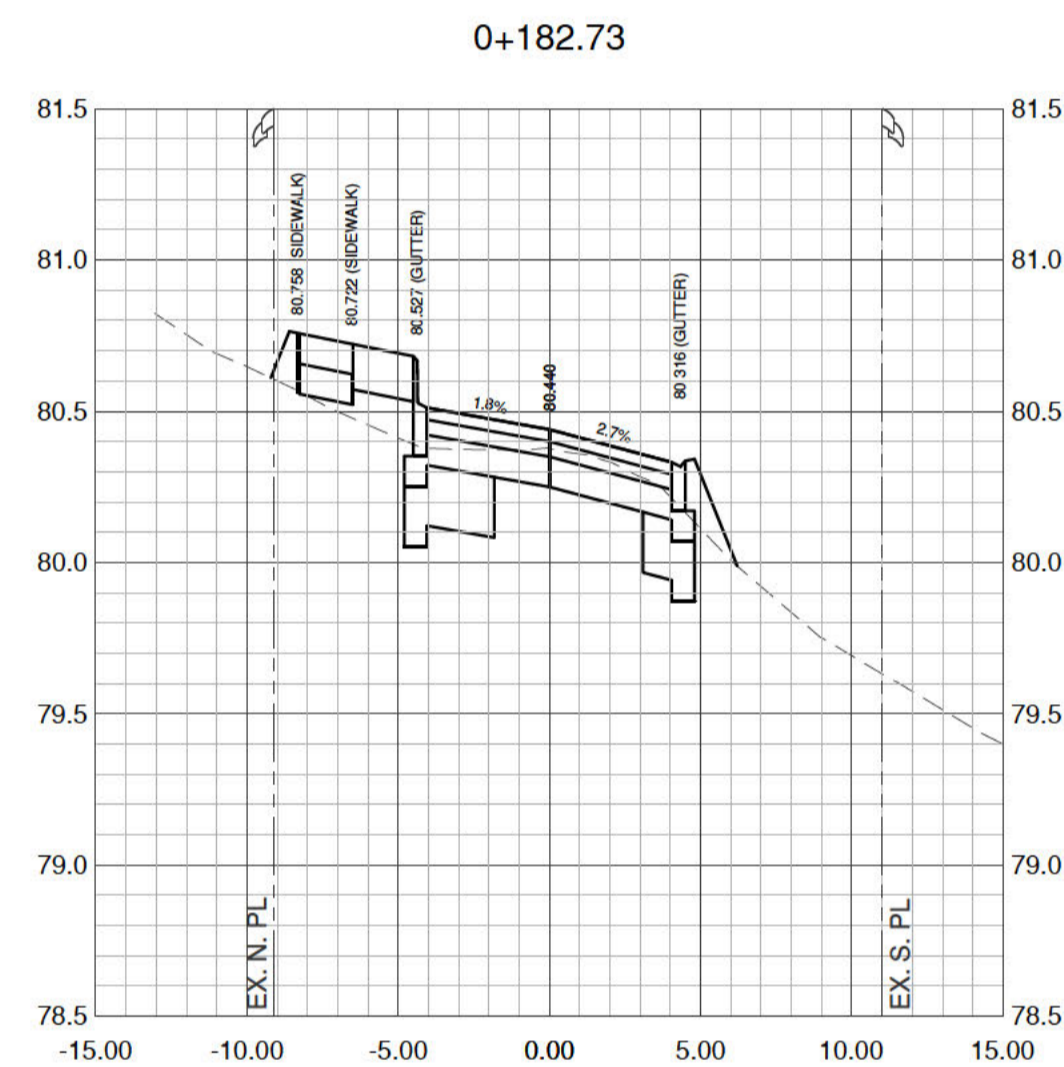
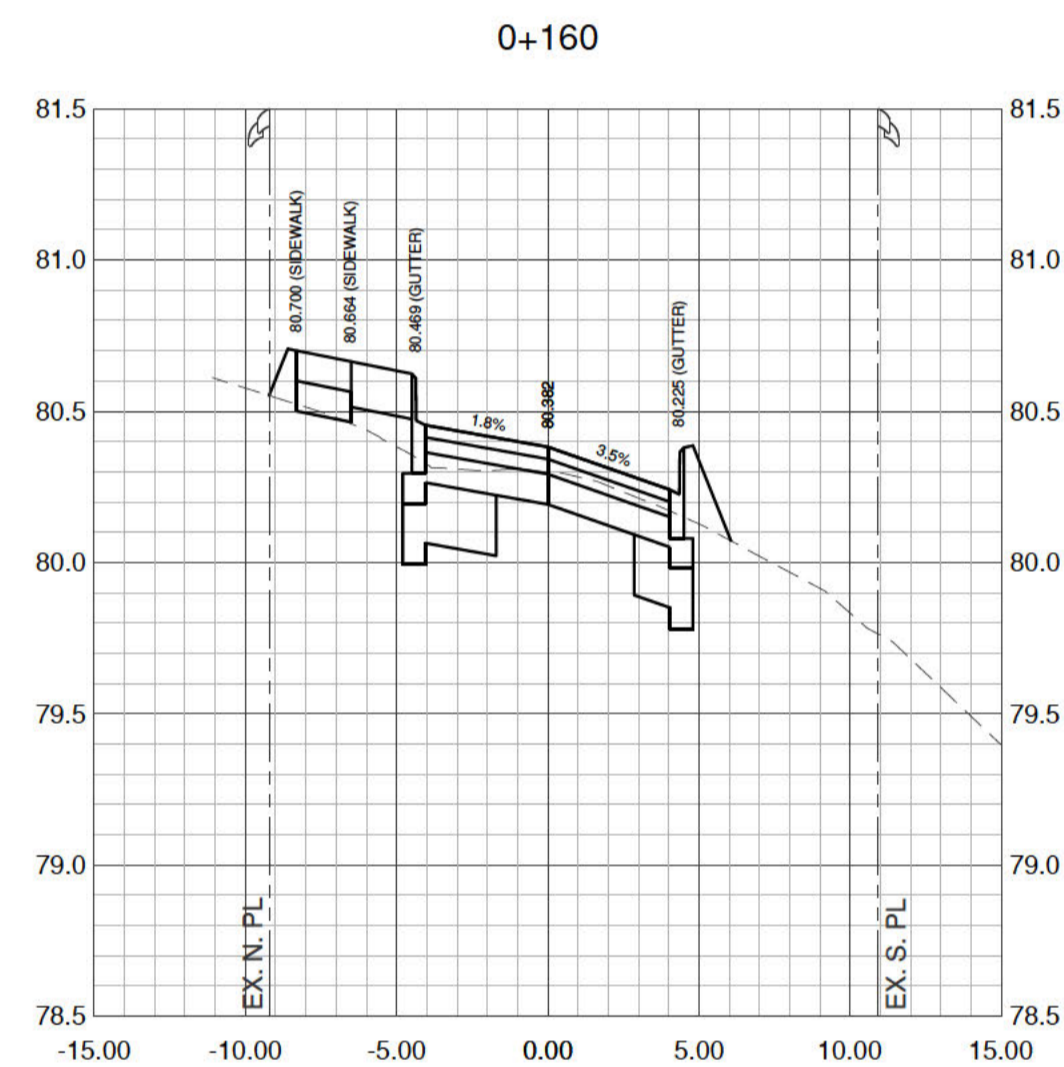
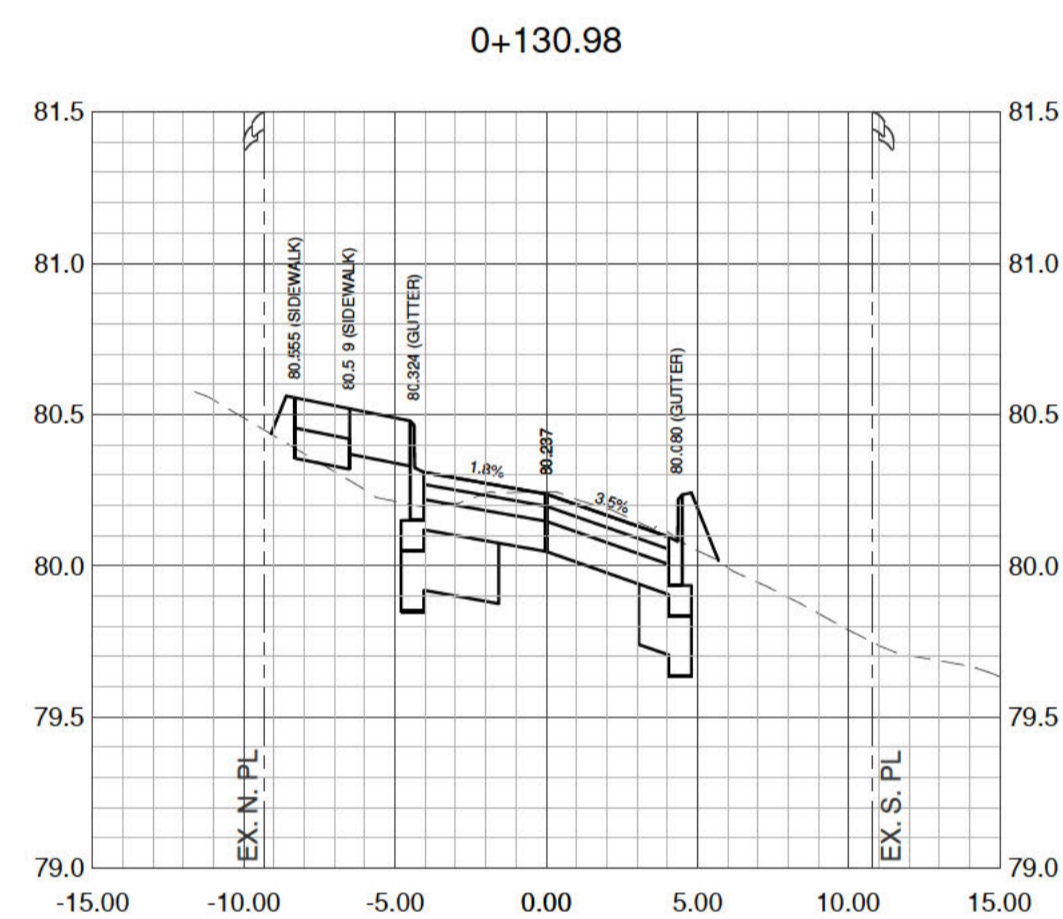
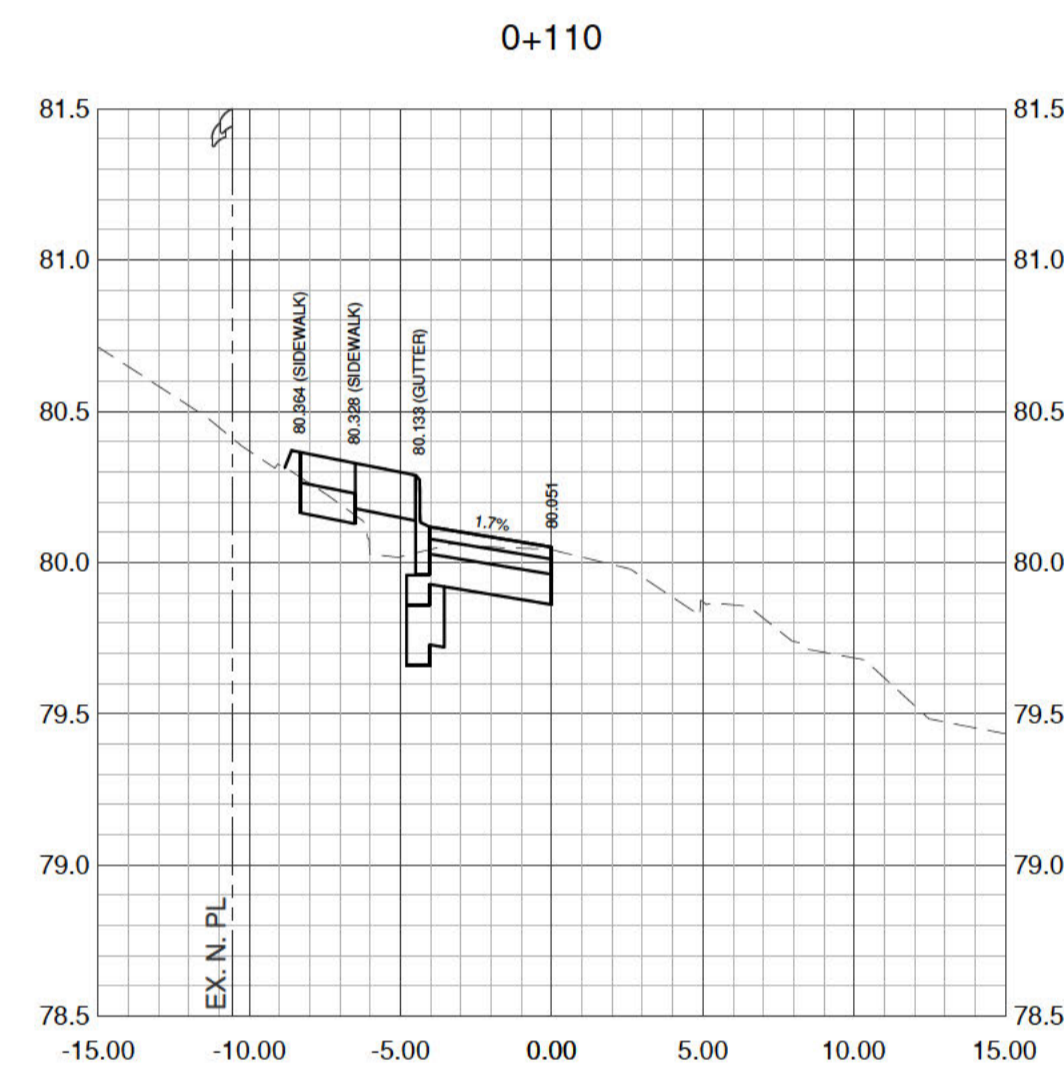
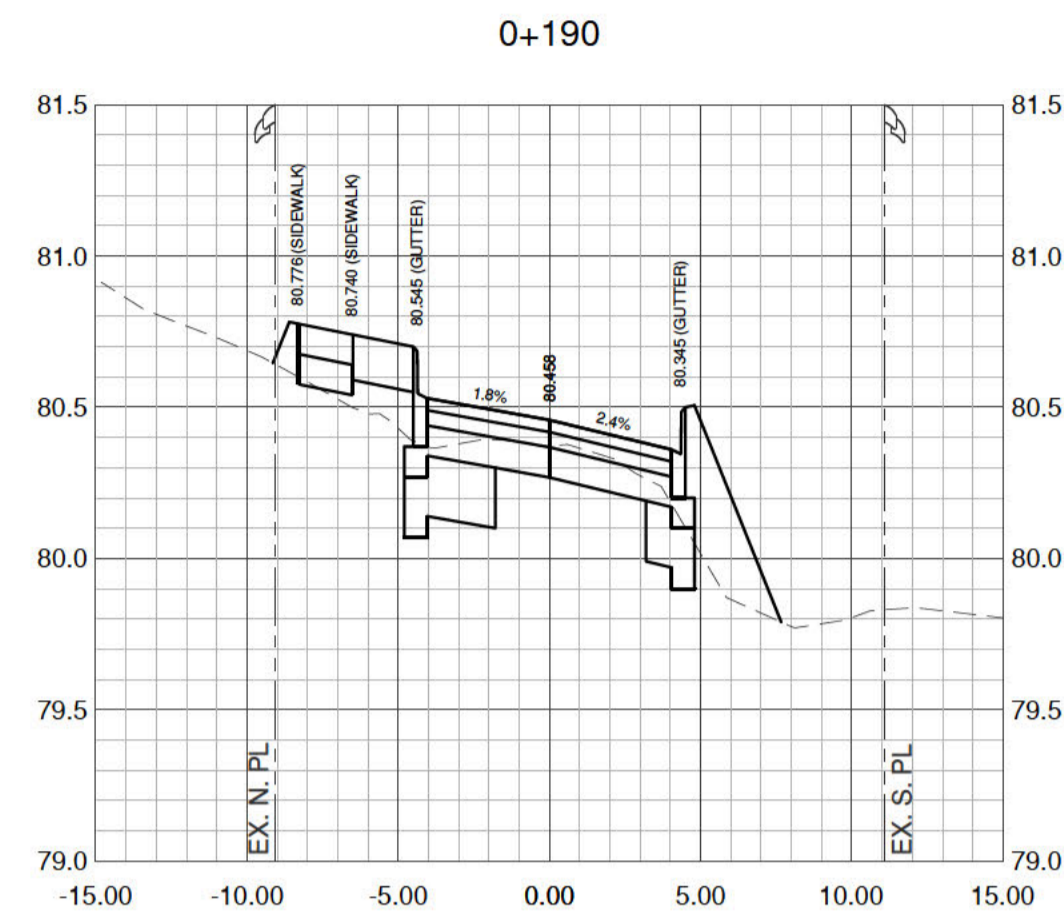
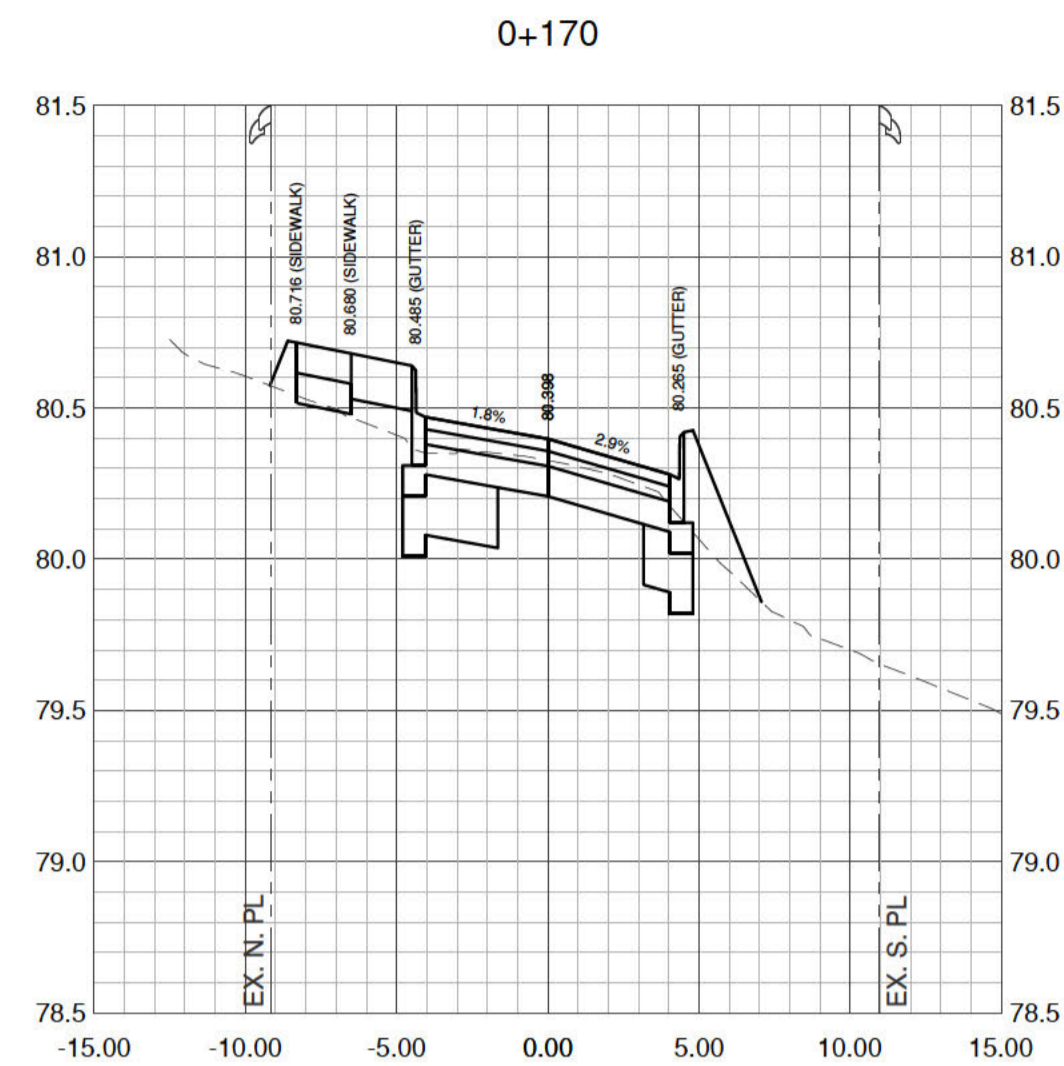
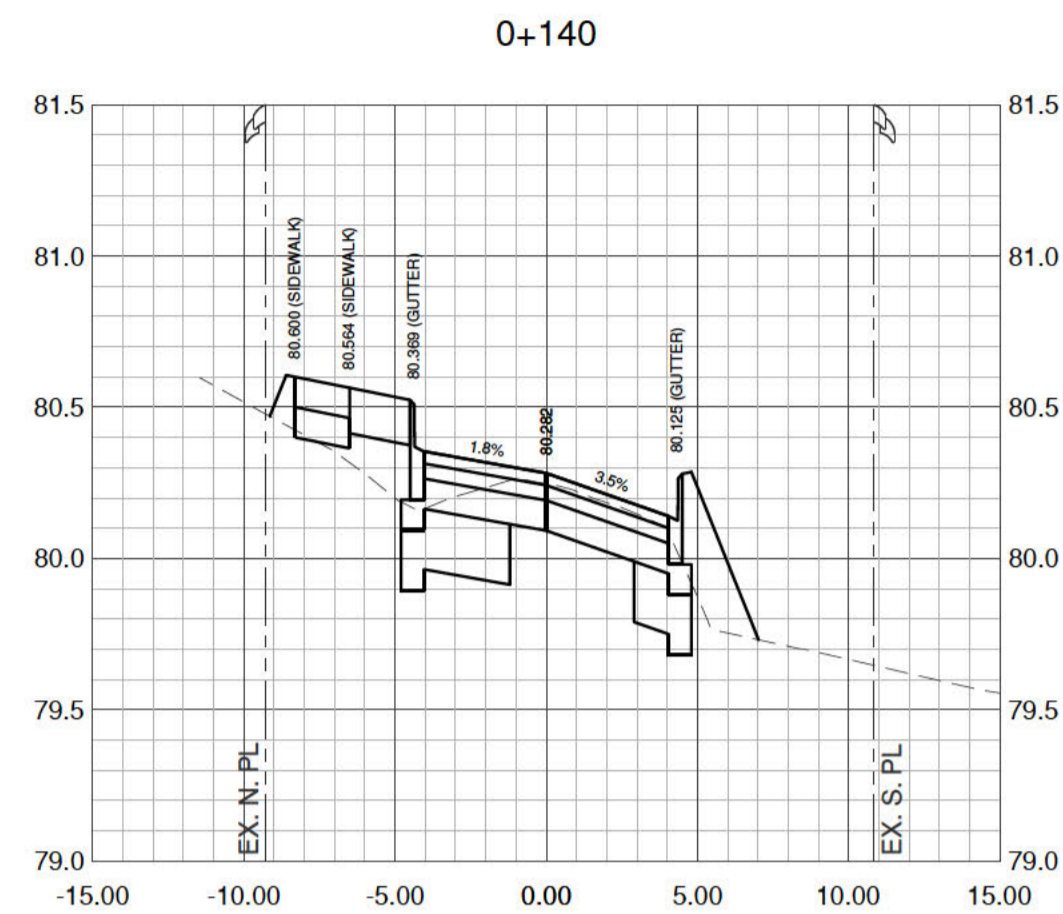
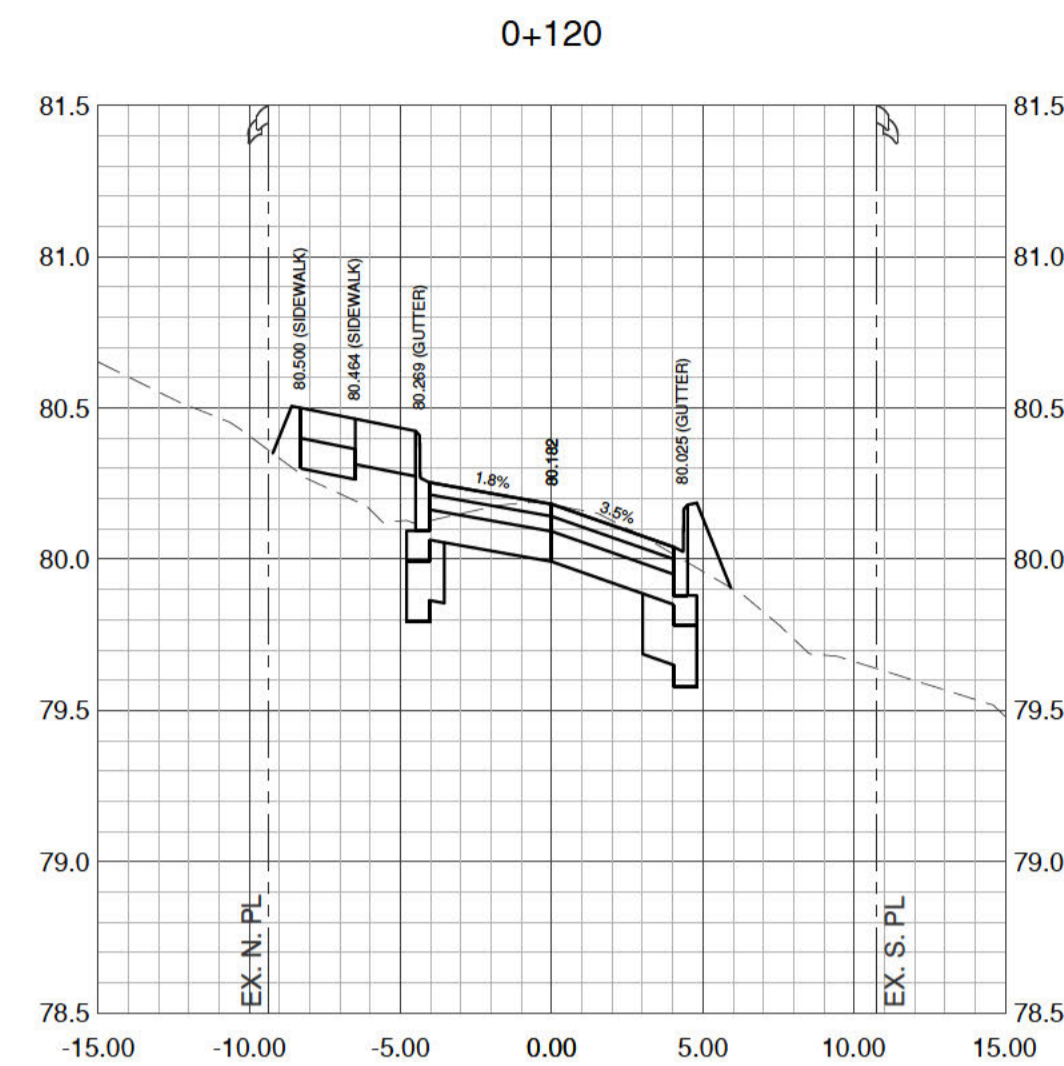
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DATE 2020-06-08
DRAWING No.
20-0063-EL1-1

SHEET 09 **OF** 13 **REV.** 1

DESTROY ALL PRINTS BEARING PREVIOUS No.

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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
1	2020-05-12	ISSUED FOR PRELIMINARY DESIGN SUBMISSION	NM



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CLIENT
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 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

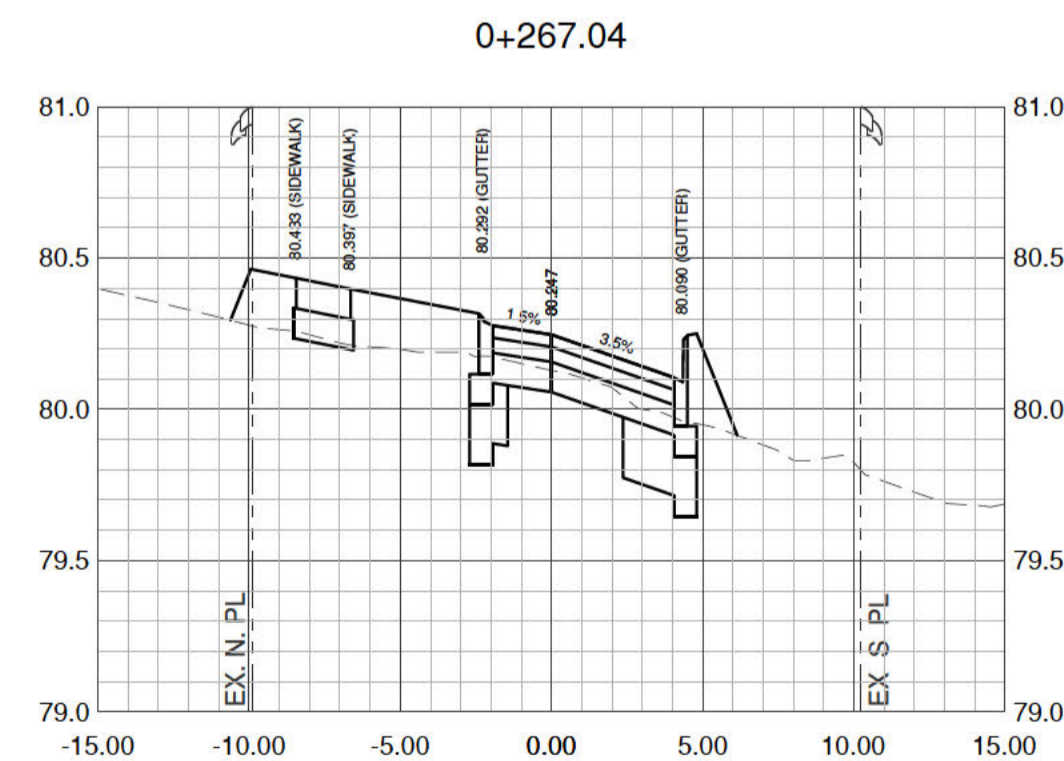
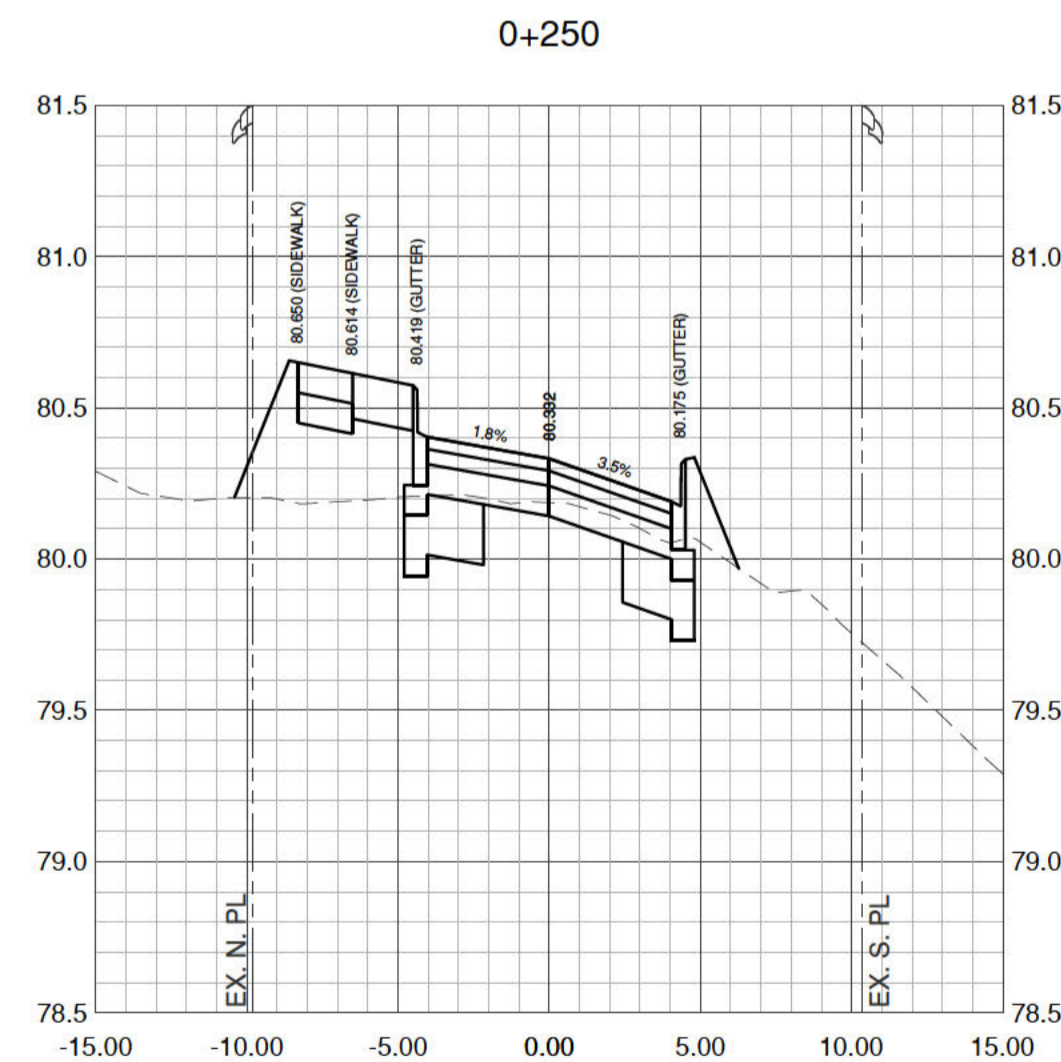
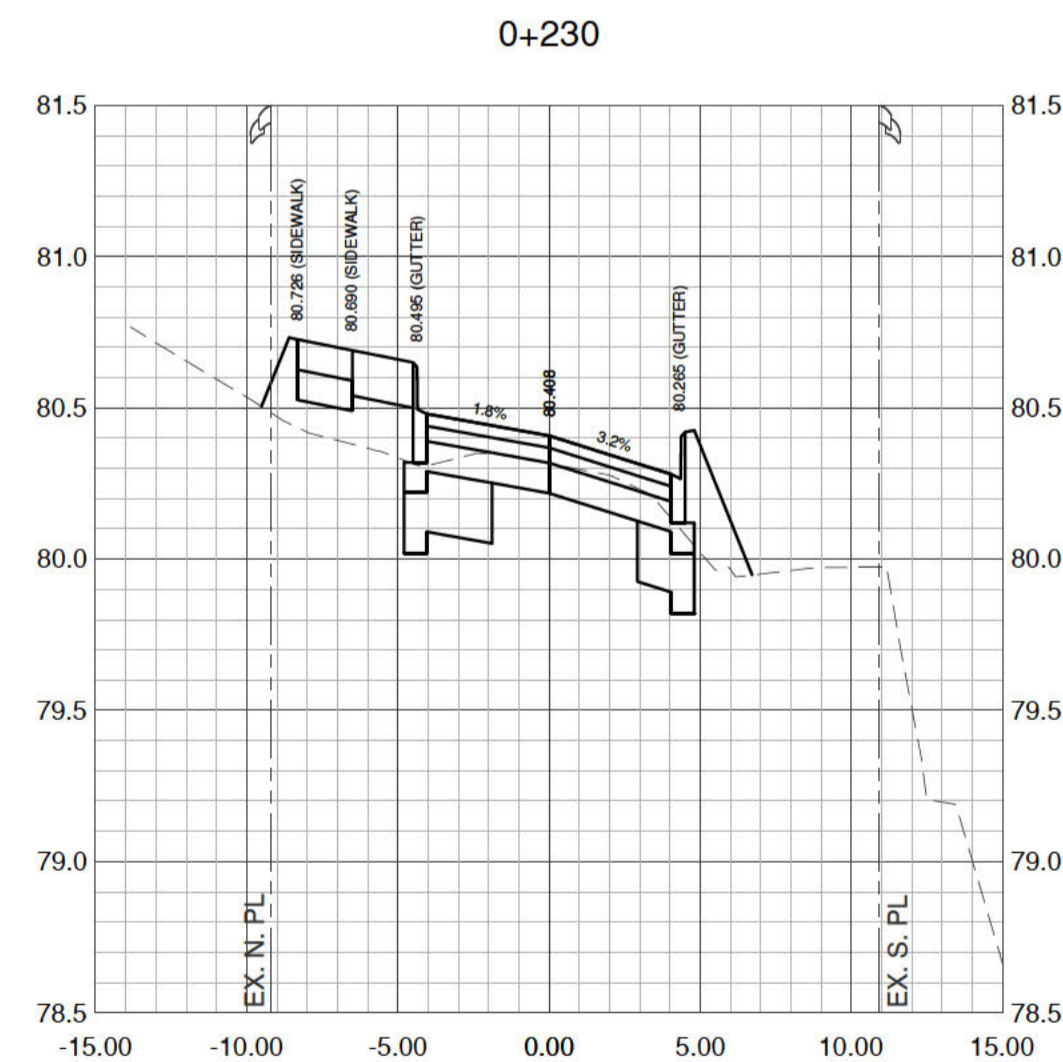
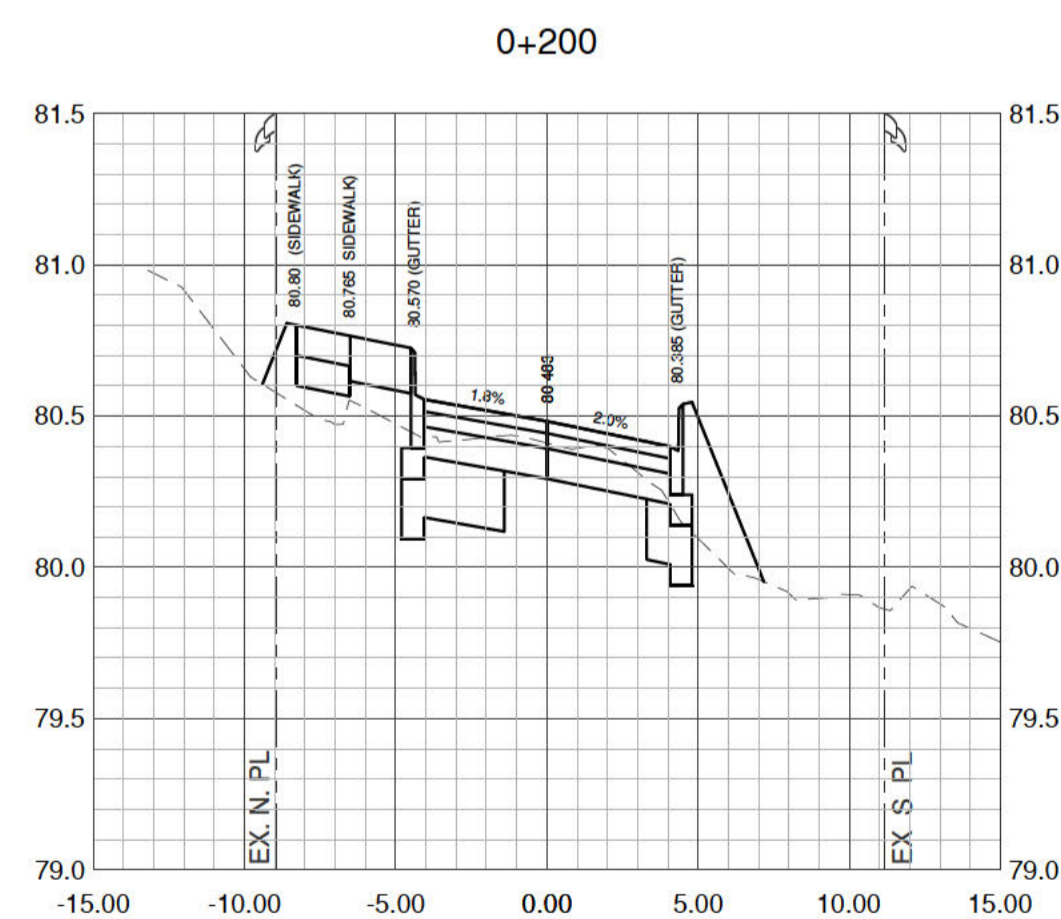
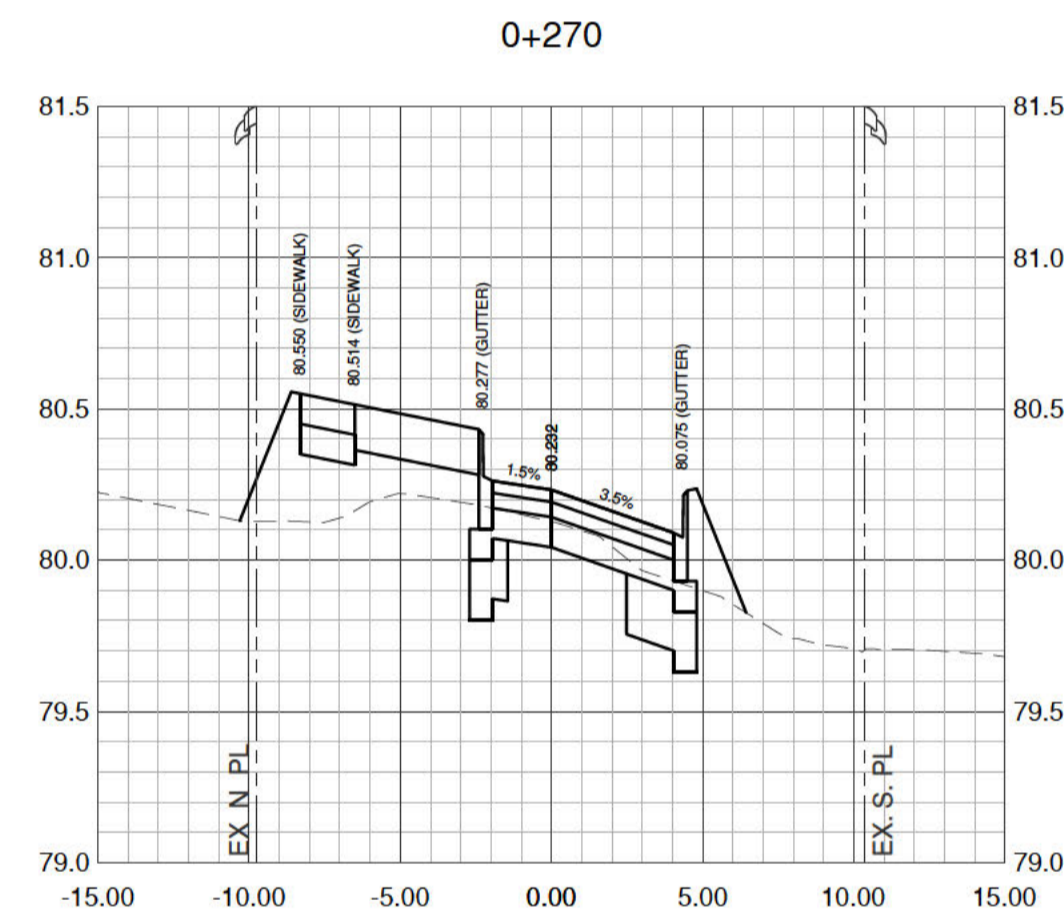
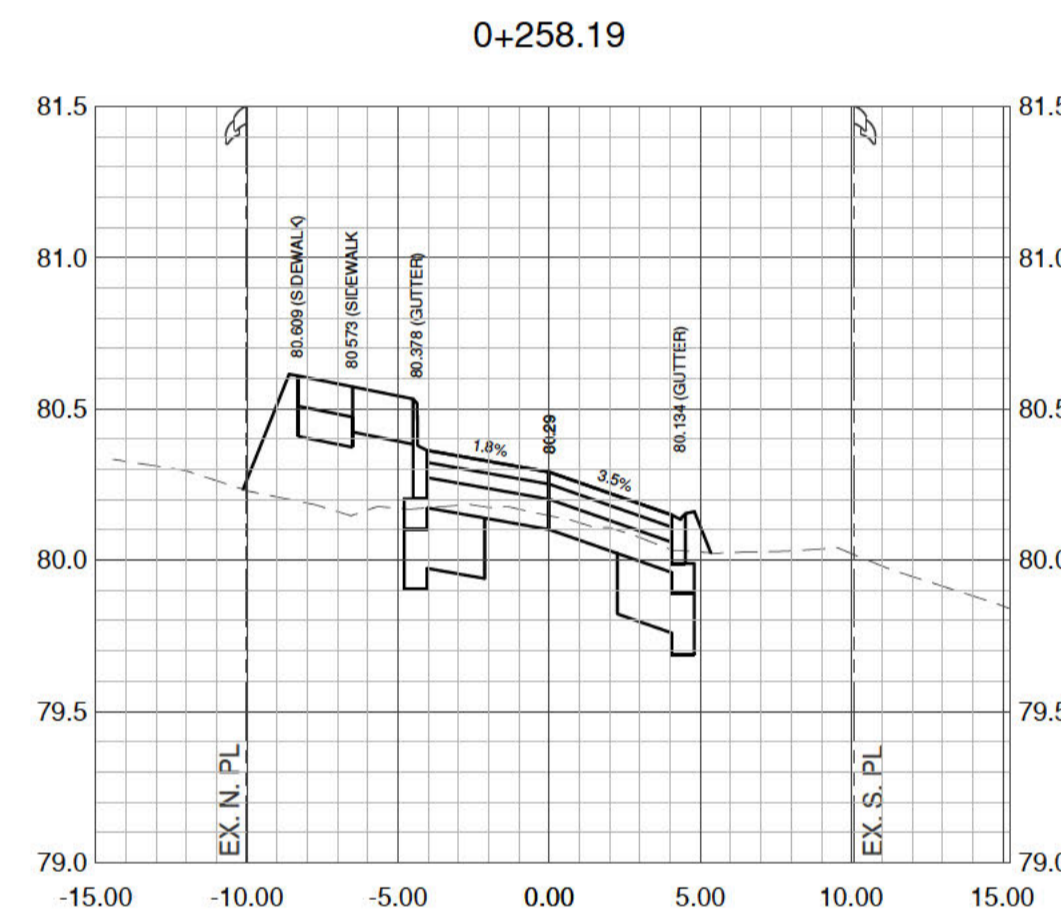
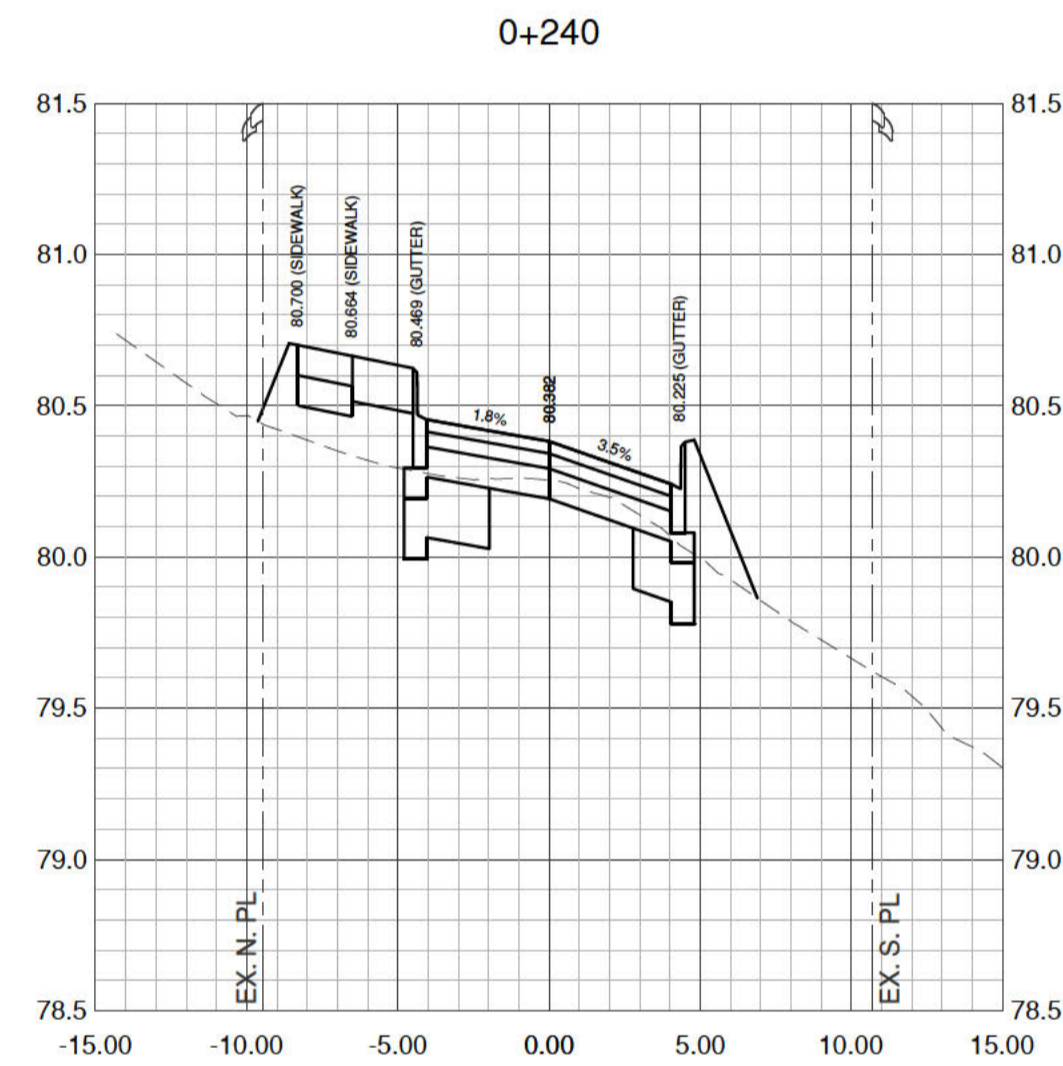
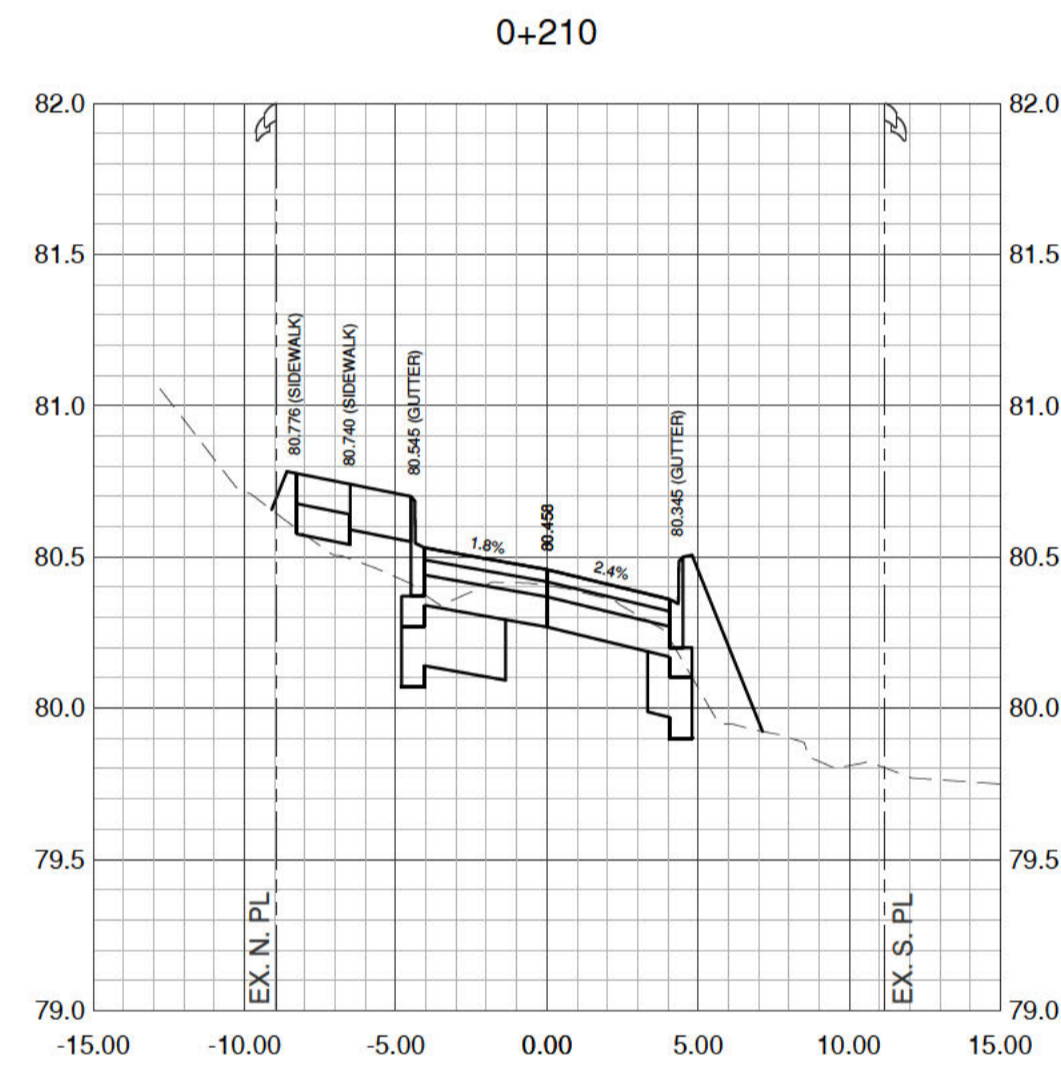
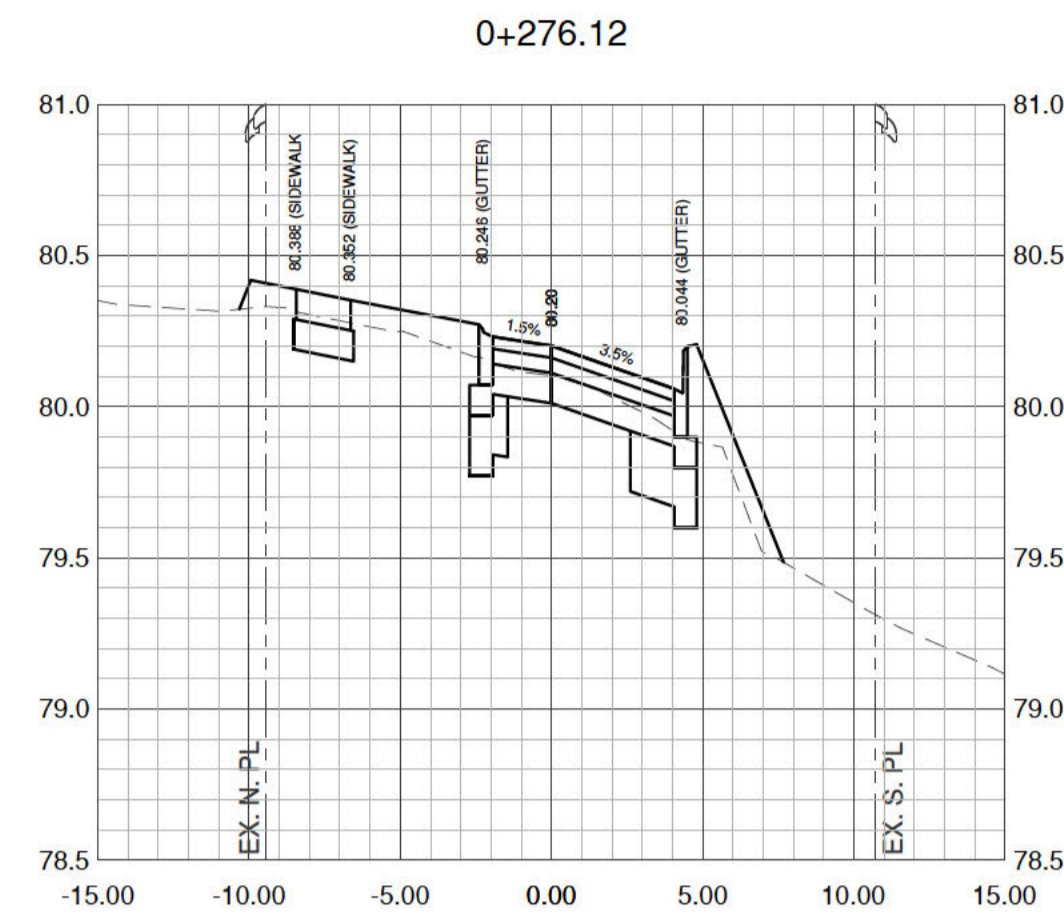
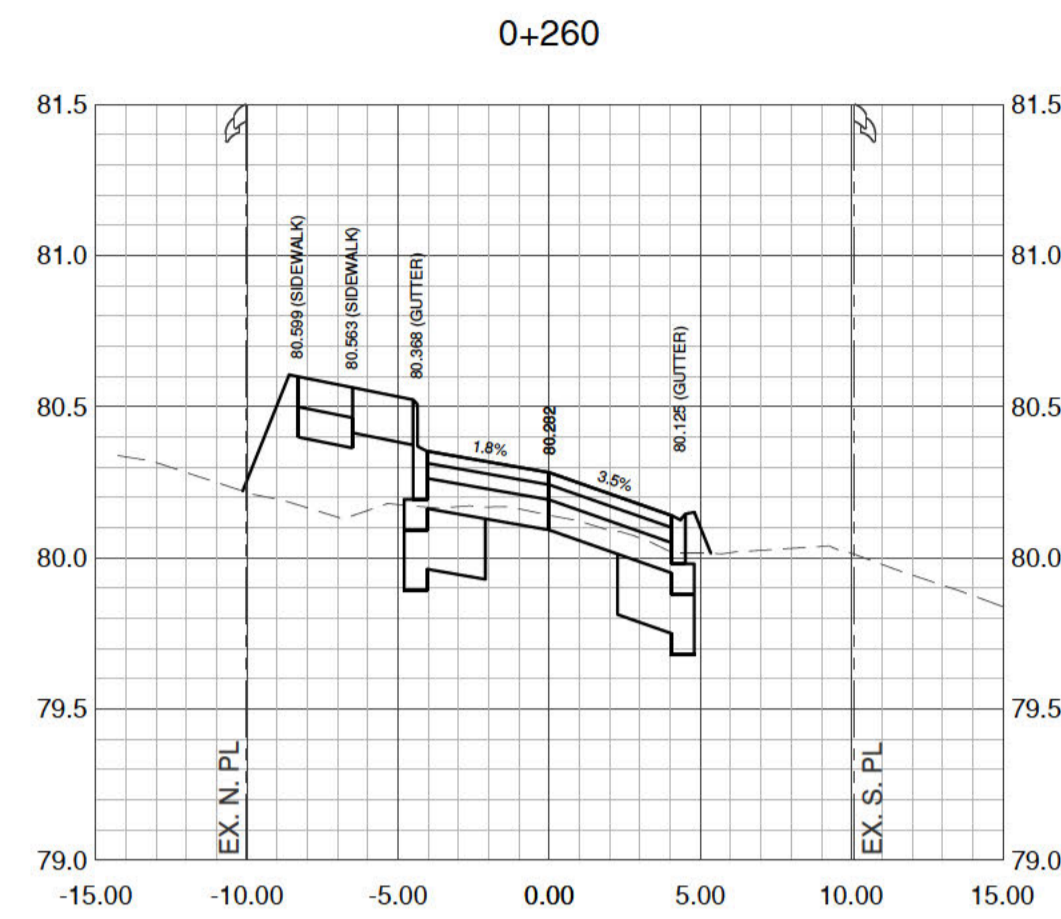
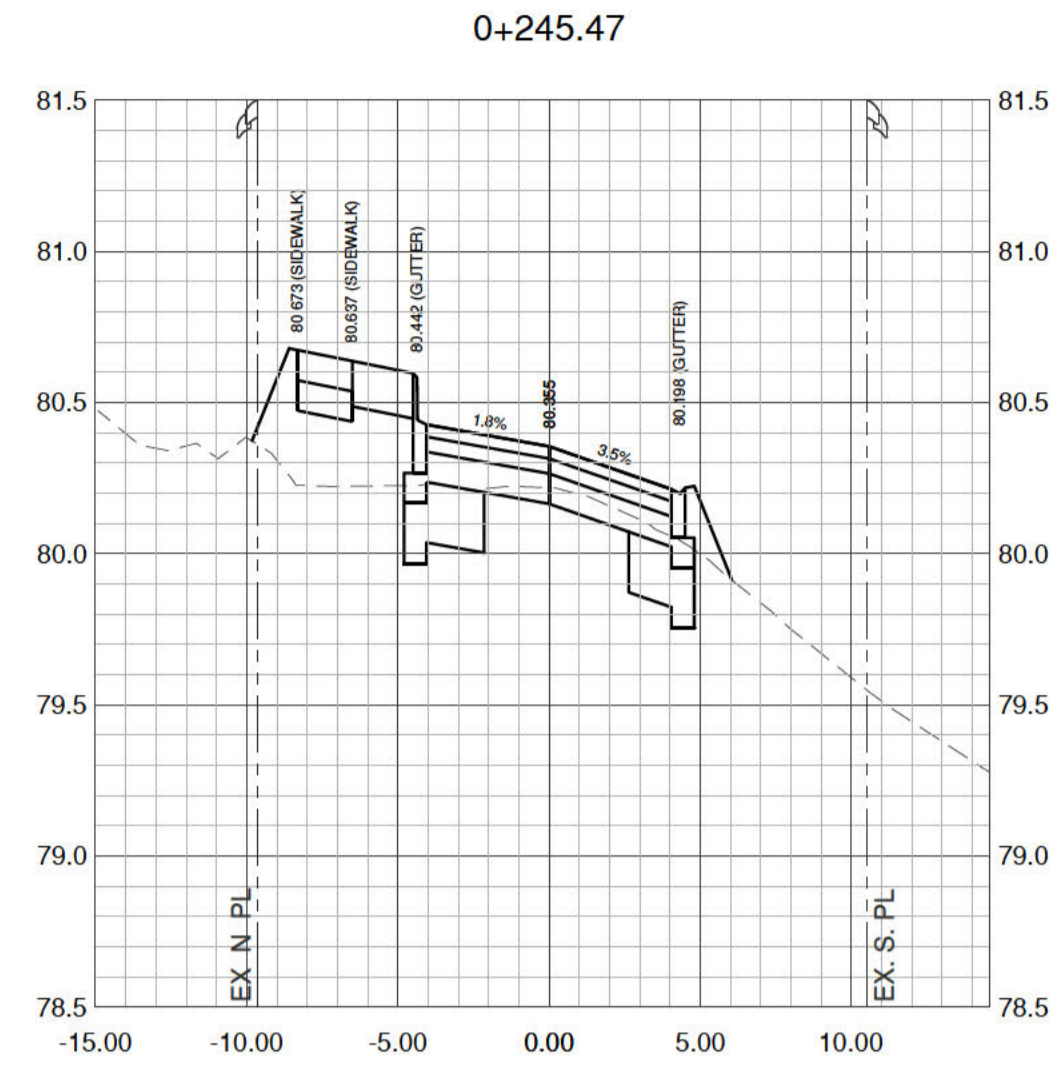
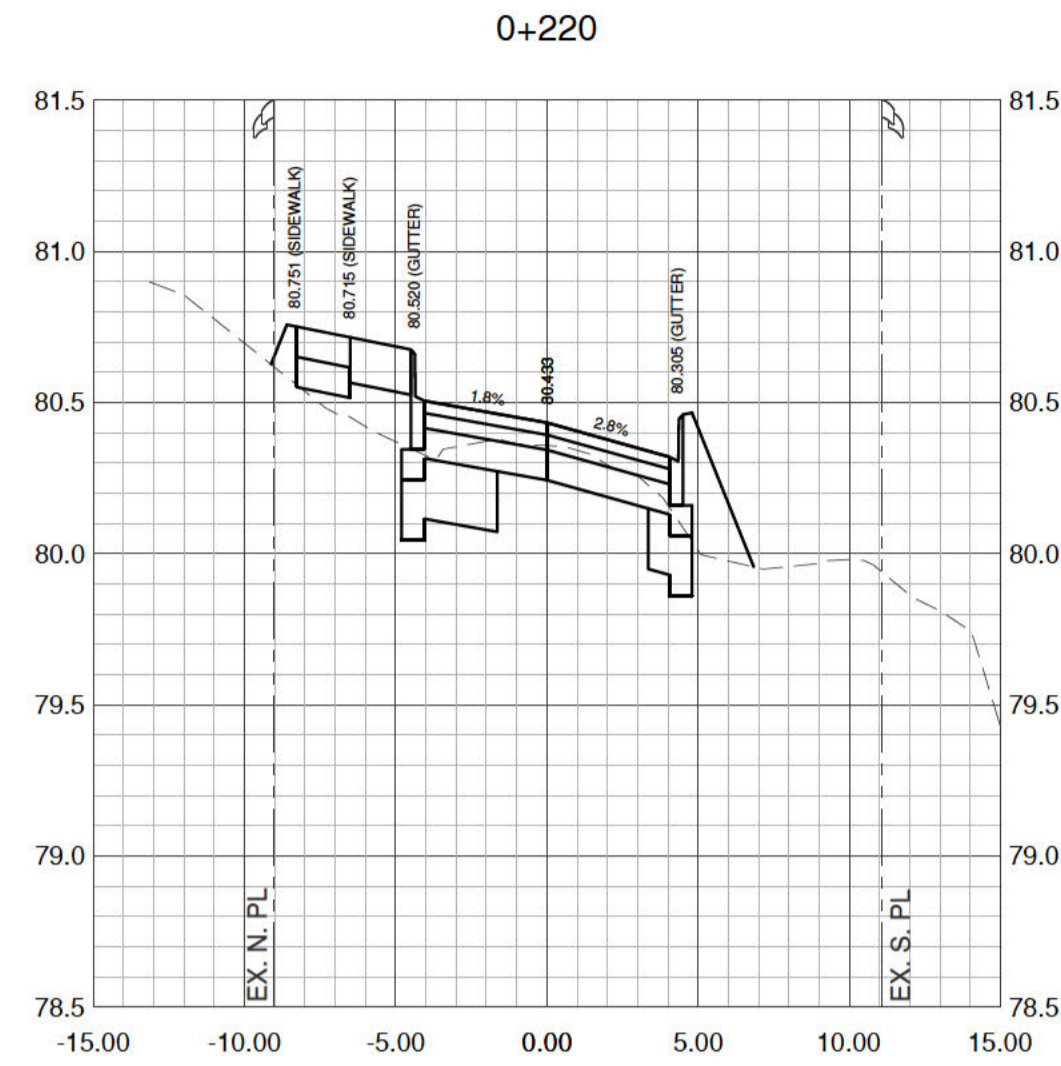
SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
 H 1:250
 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-1

SHEET 10 OF 13
 REV. 2

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877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

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DRAWN BY SV
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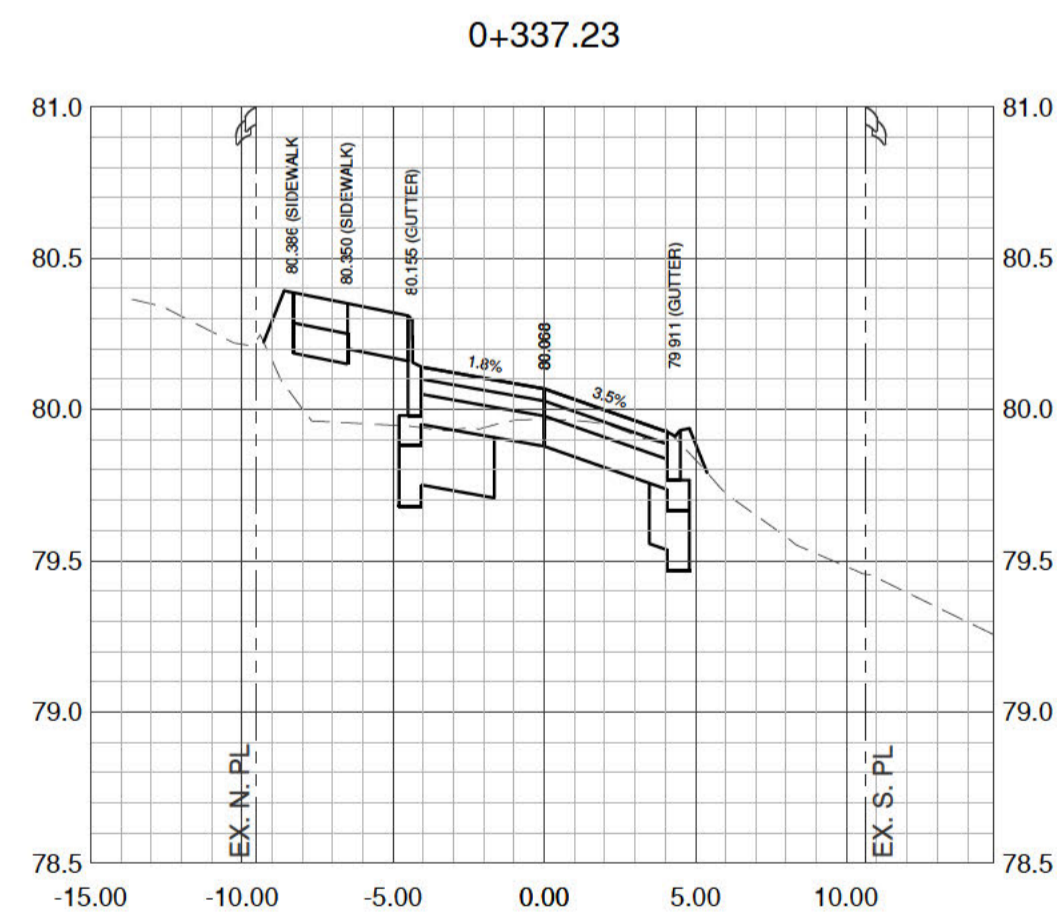
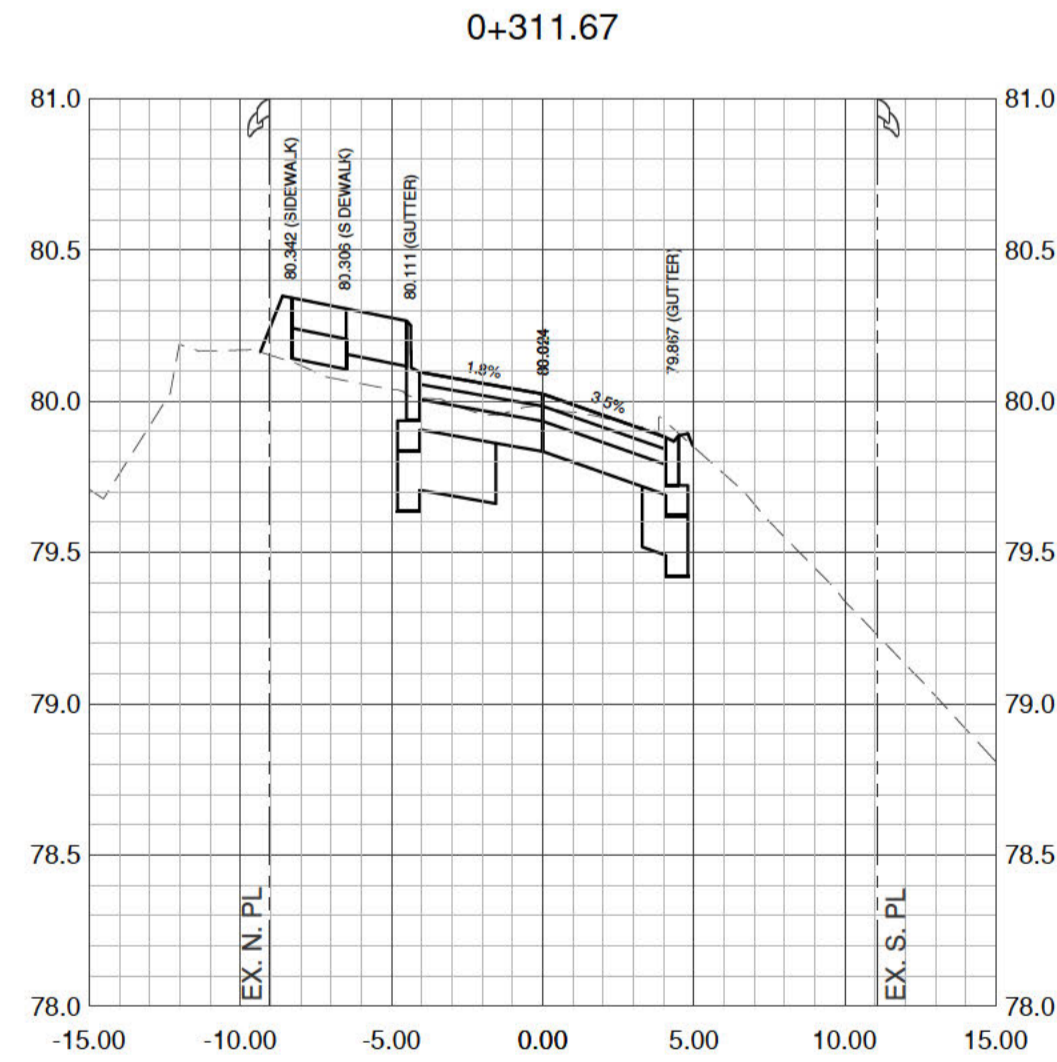
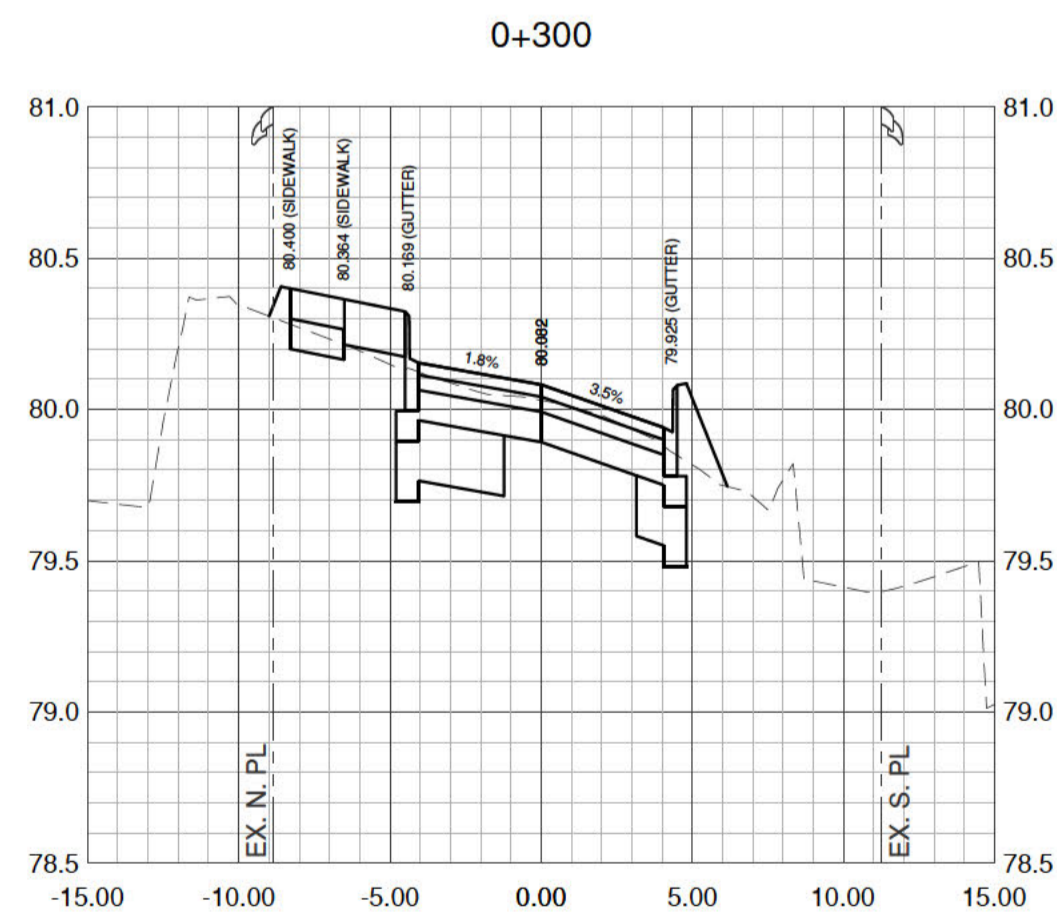
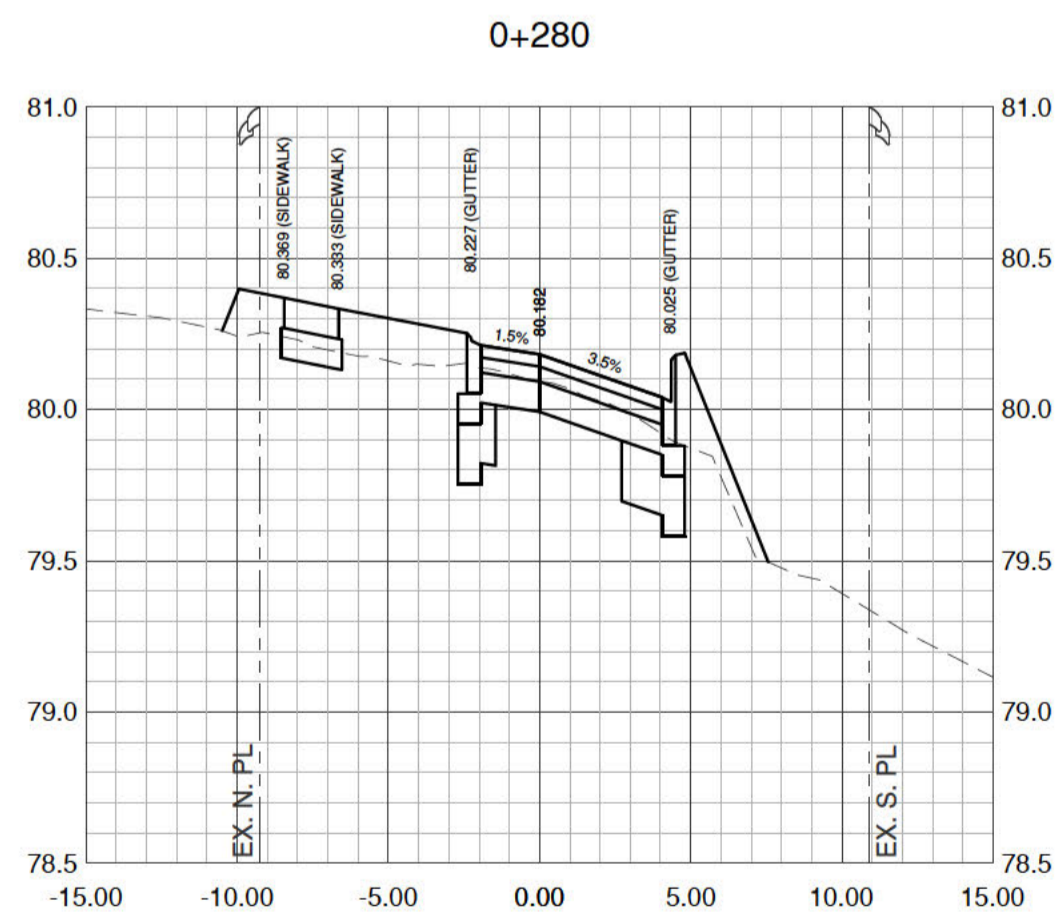
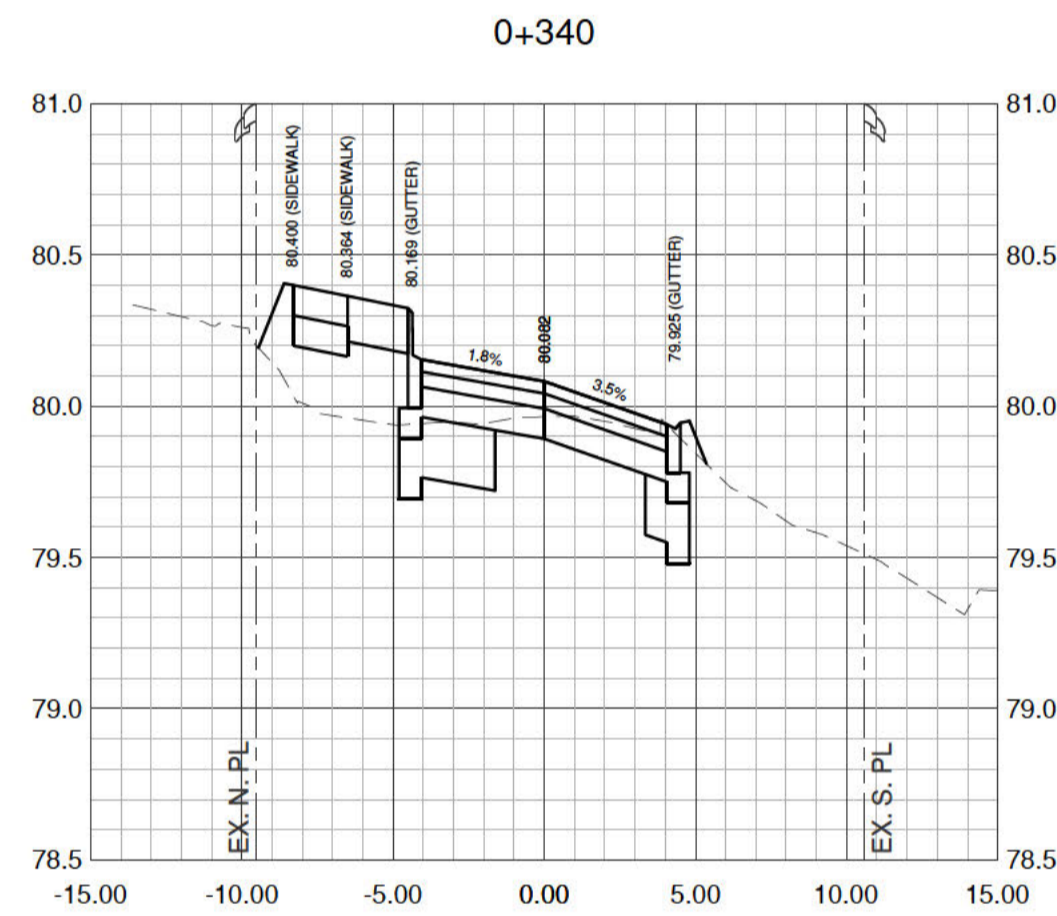
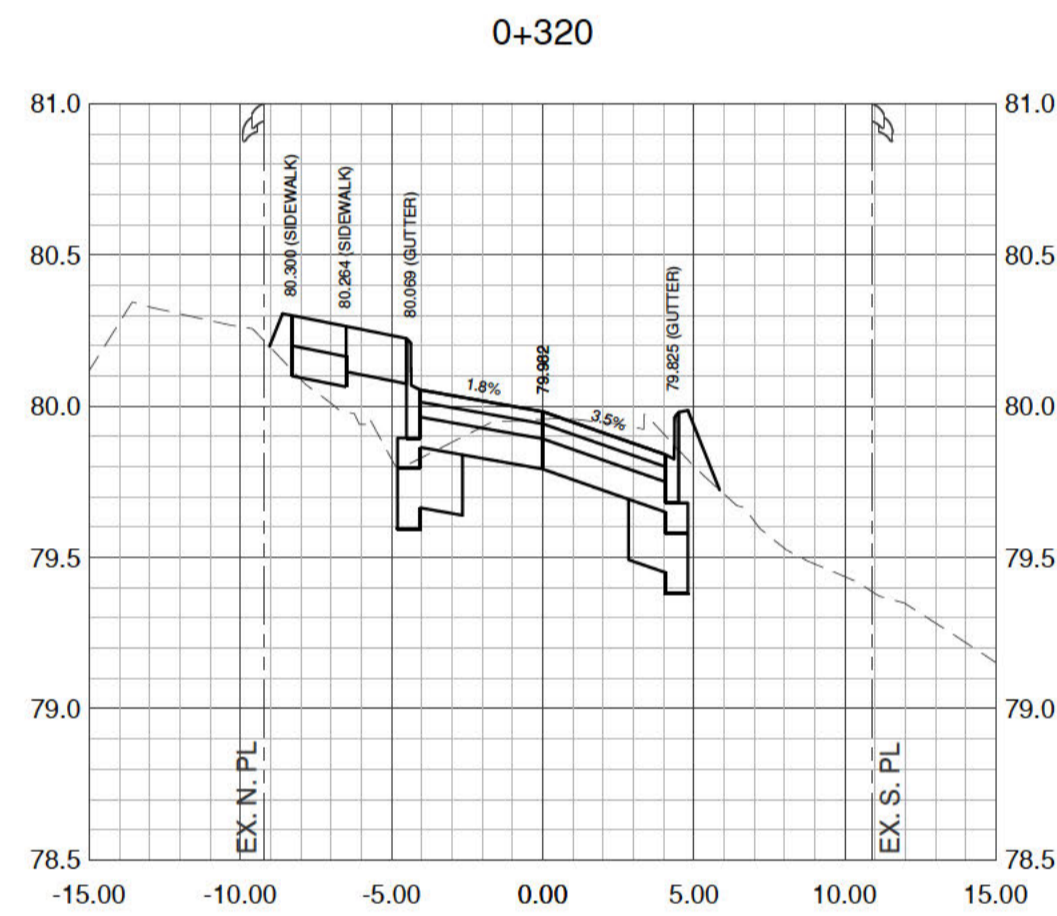
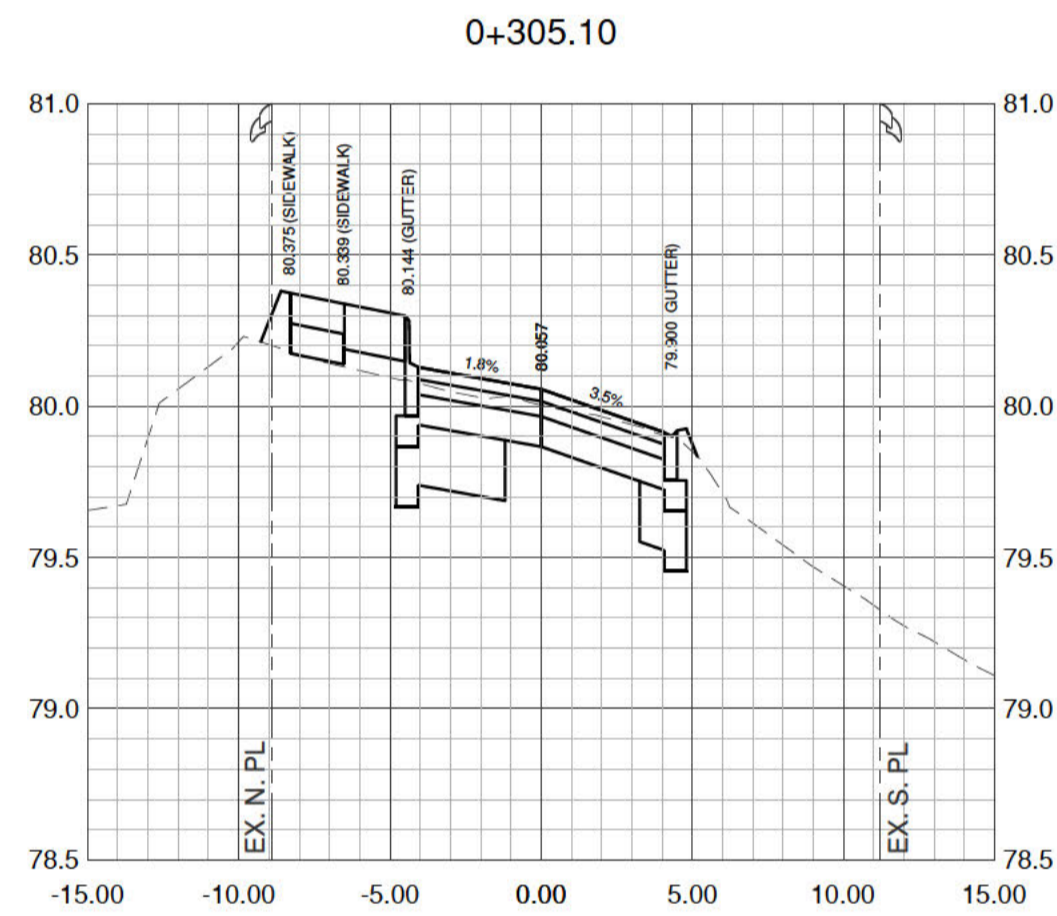
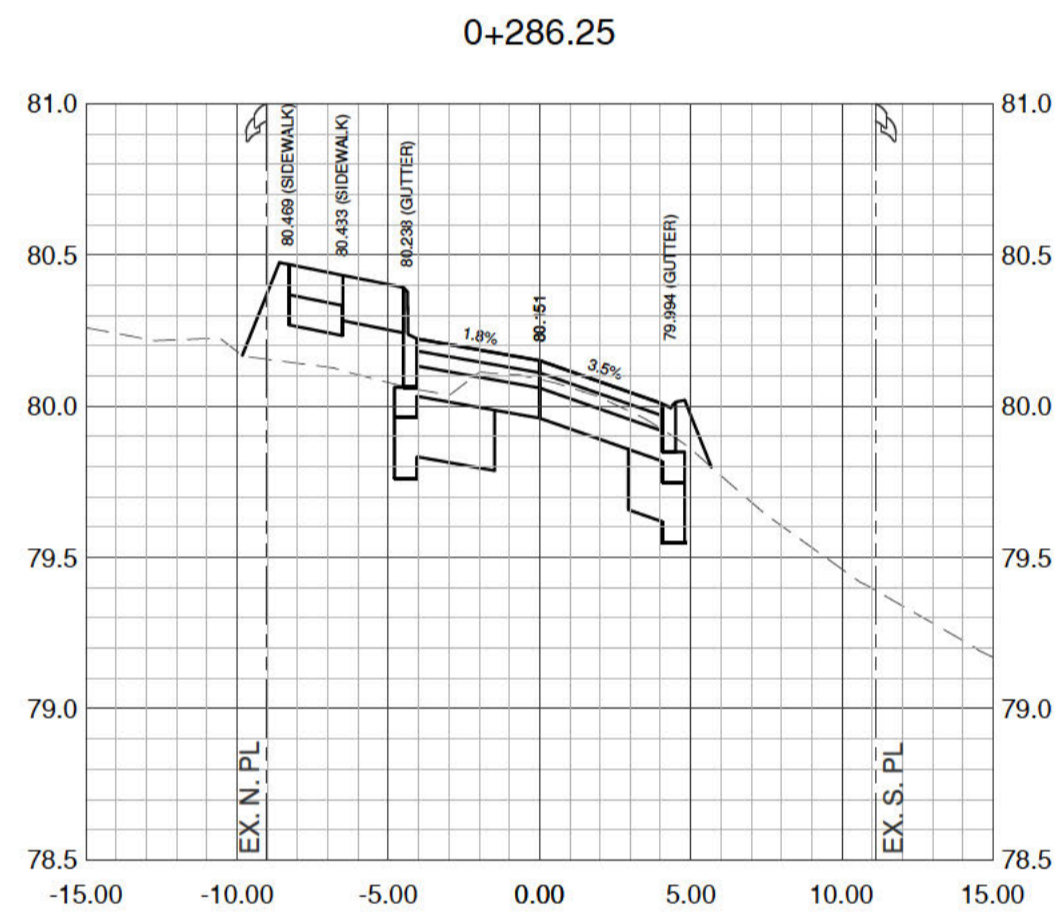
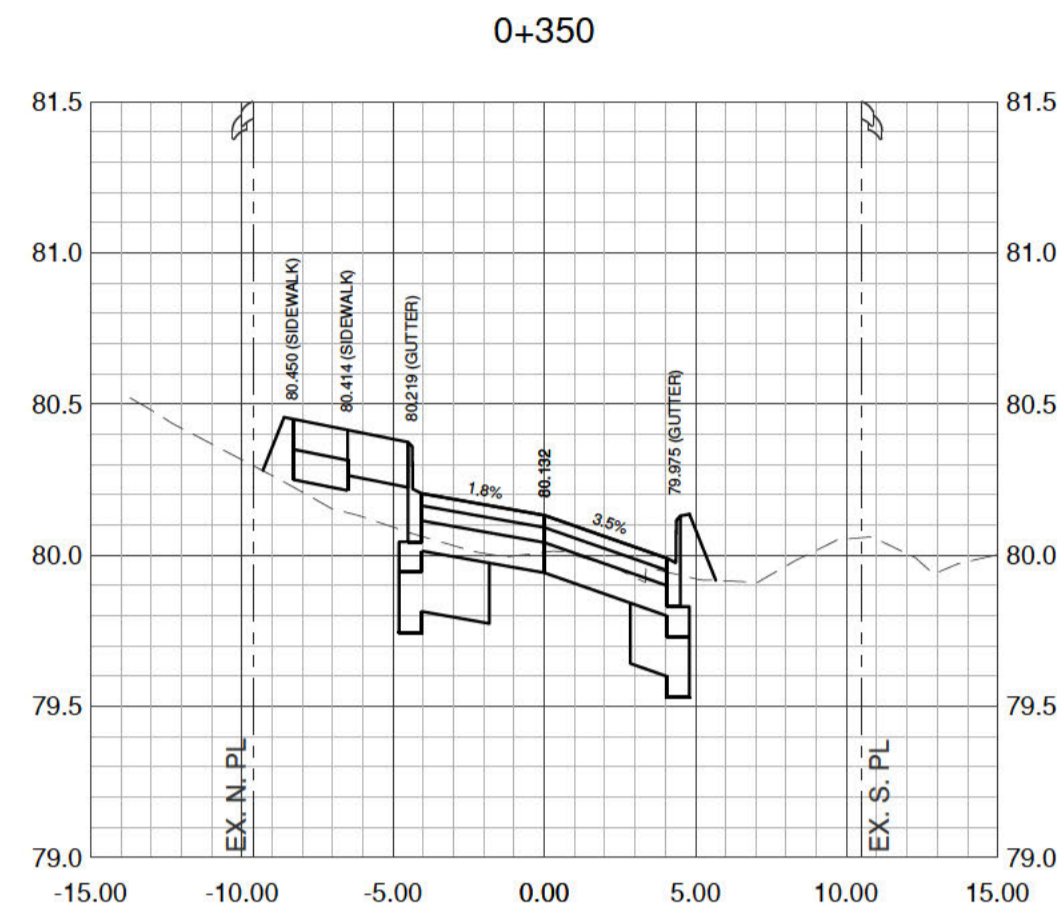
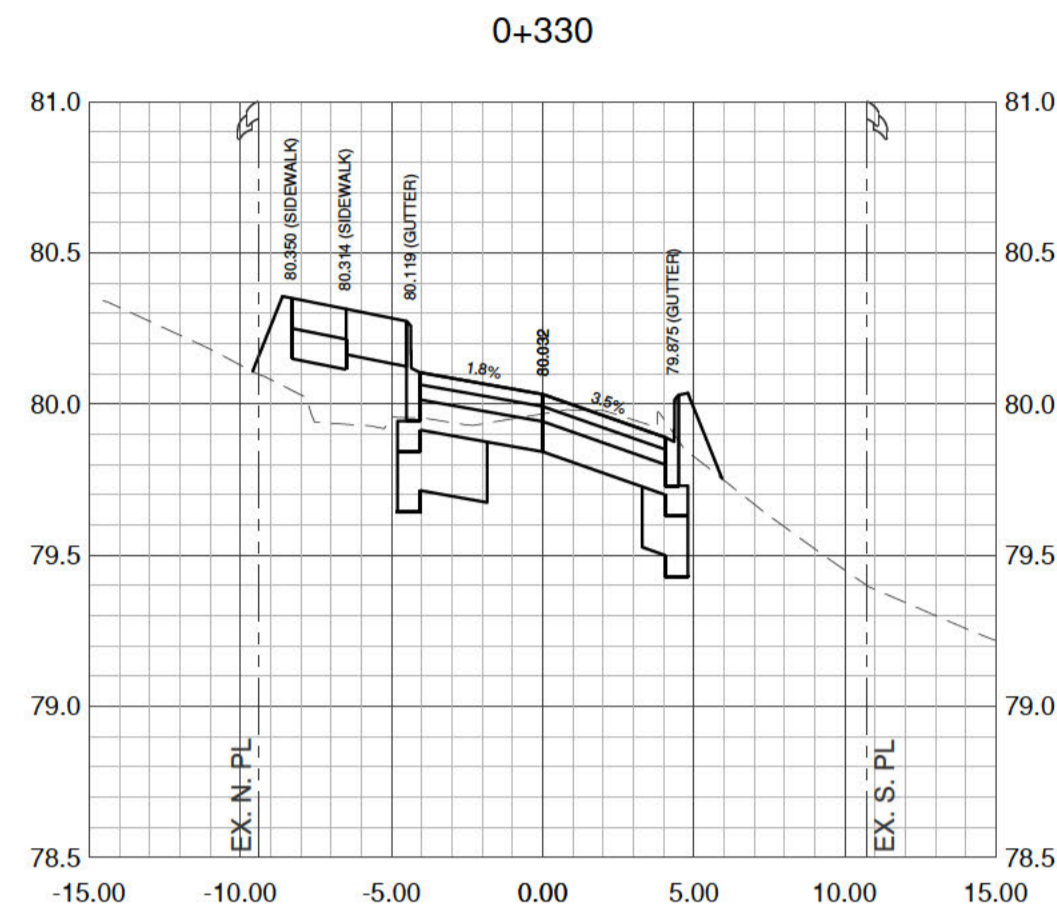
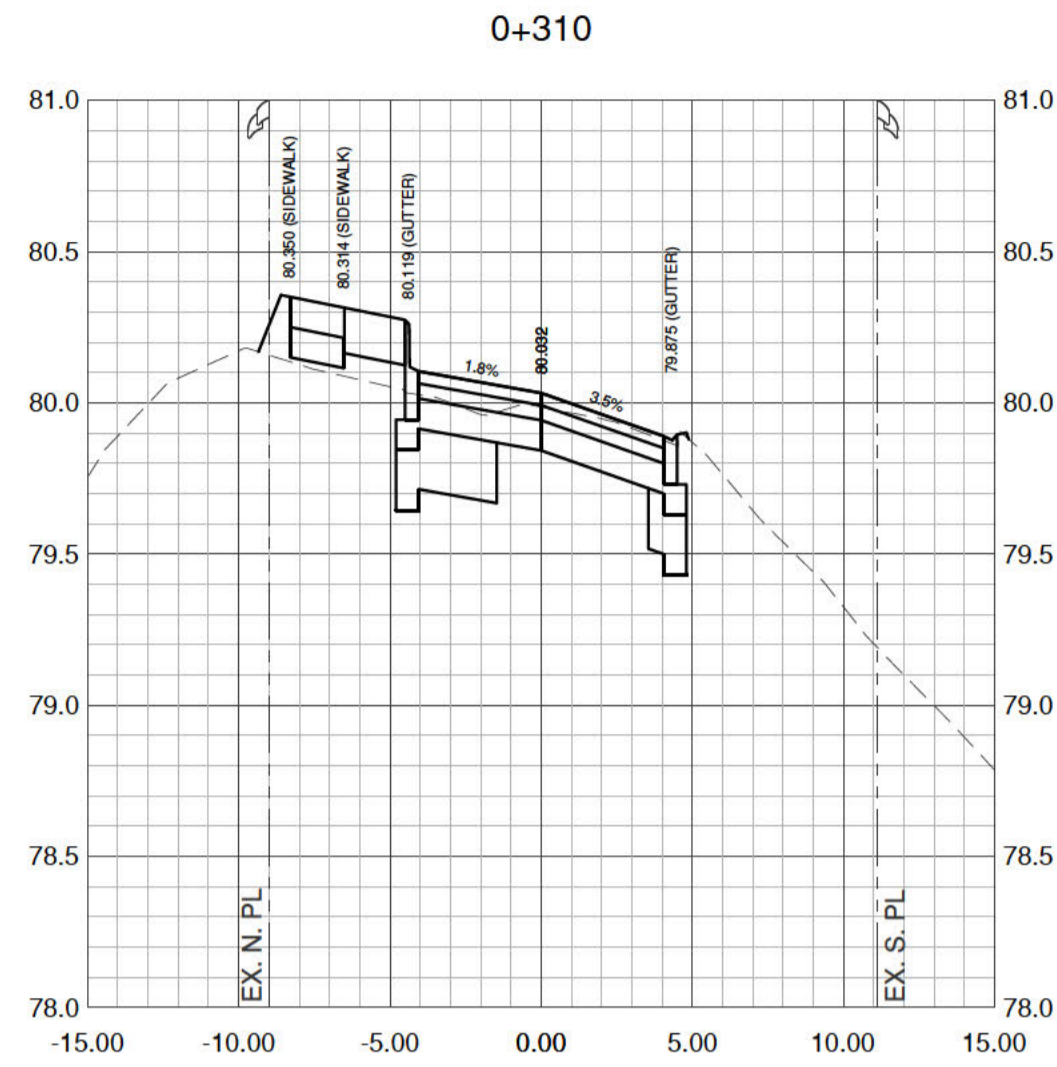
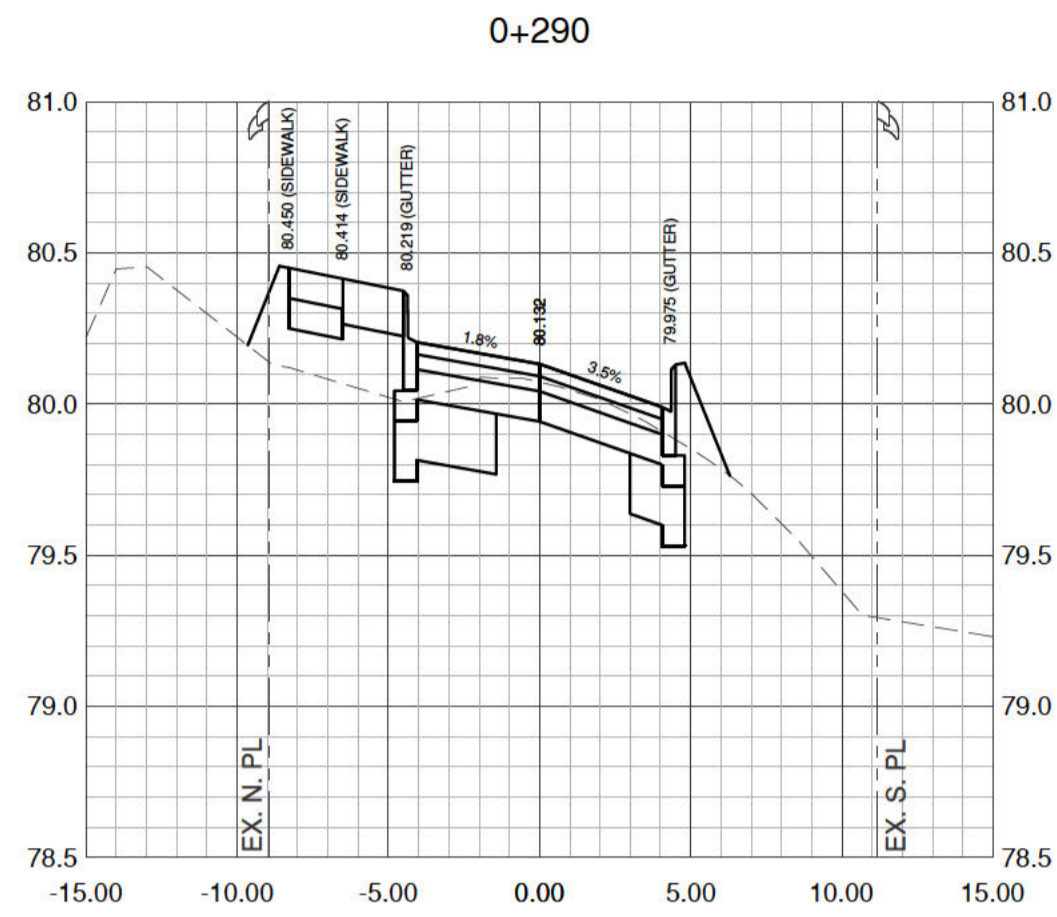
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V 1:25

DATE 2020-01-28
DRAWING No.
20-0063-XS1-2

SHEET 11 OF 13
REV. 2

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No.	DATE	REVISION	BY
2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

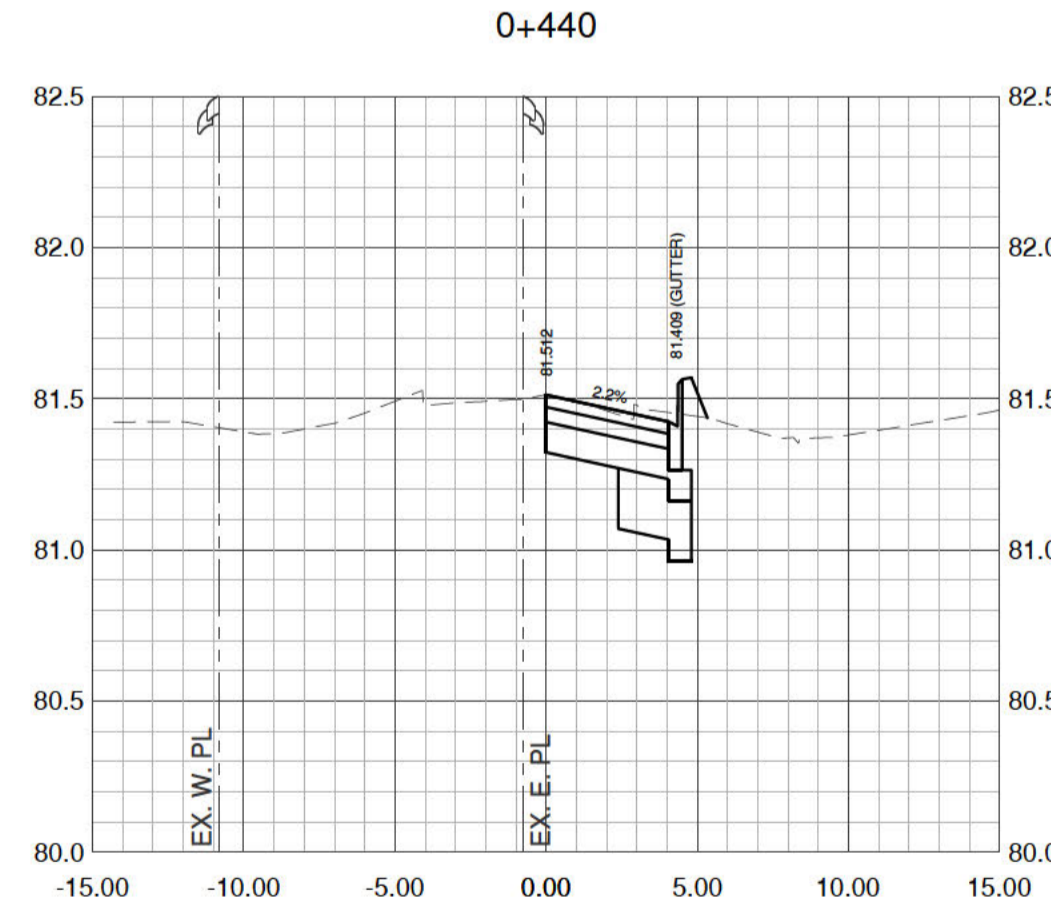
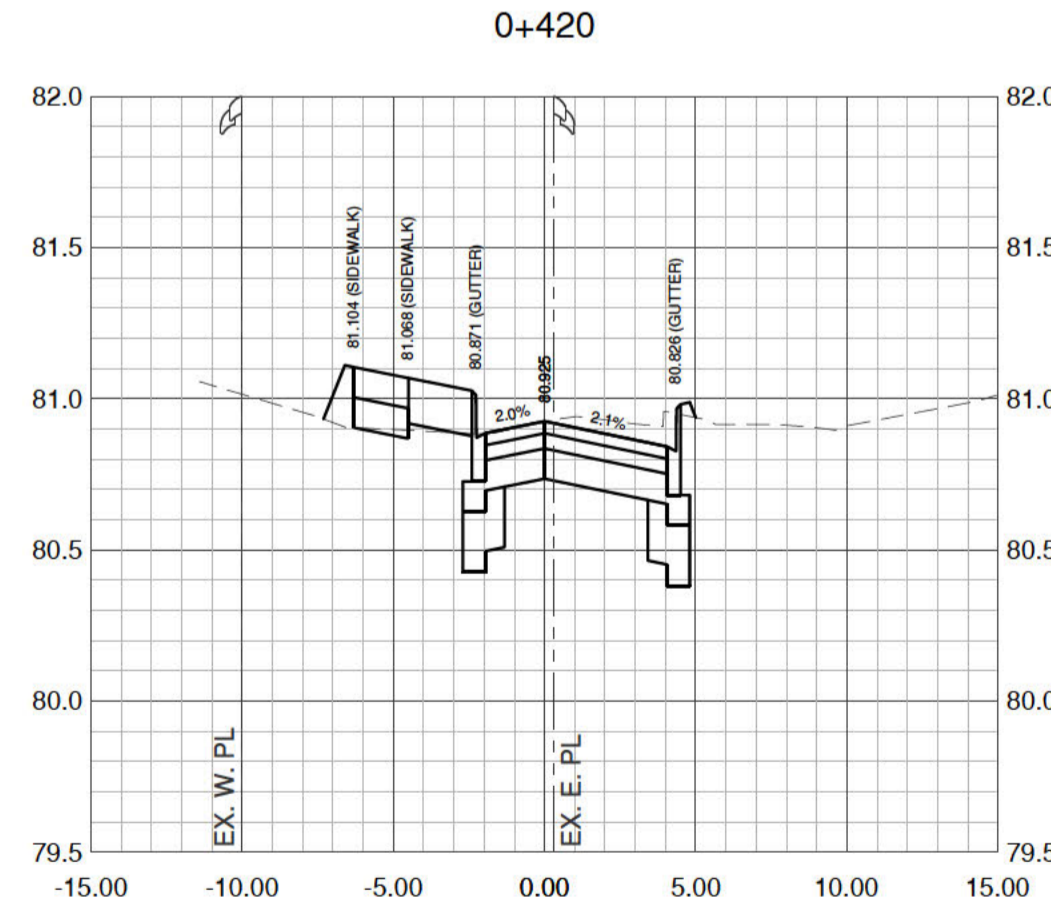
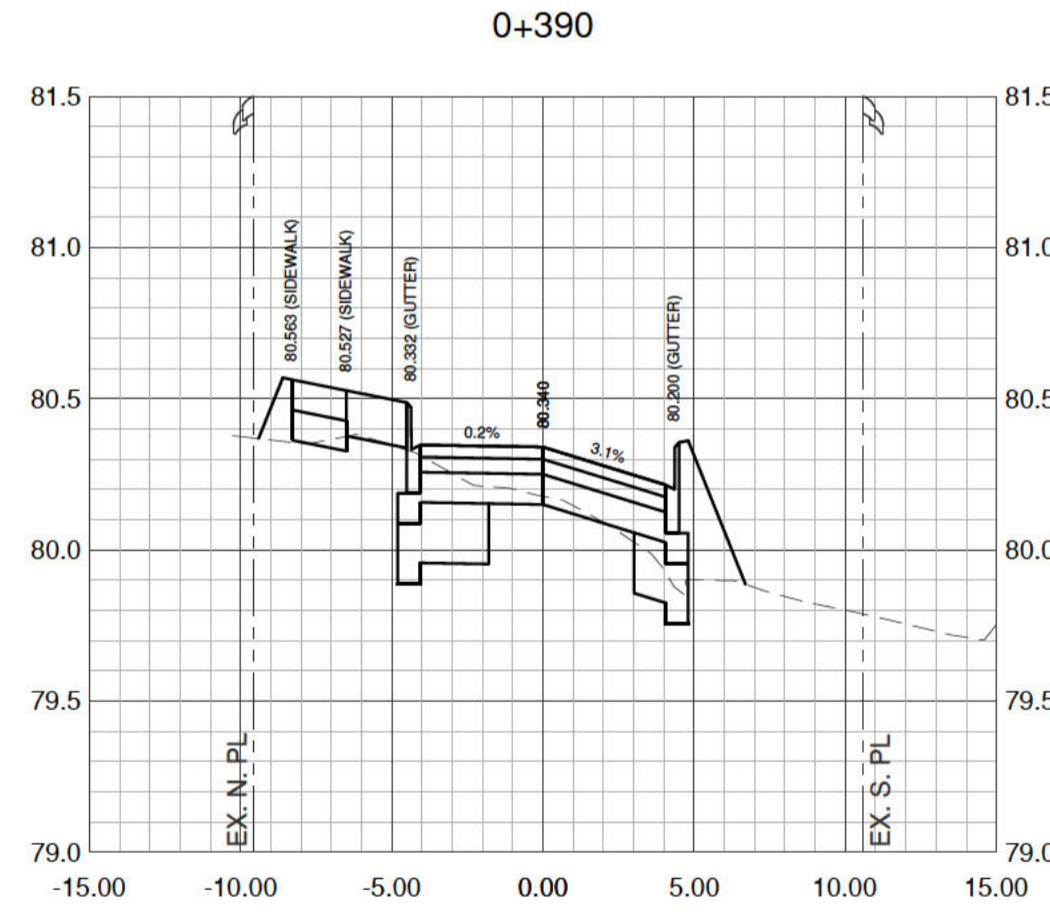
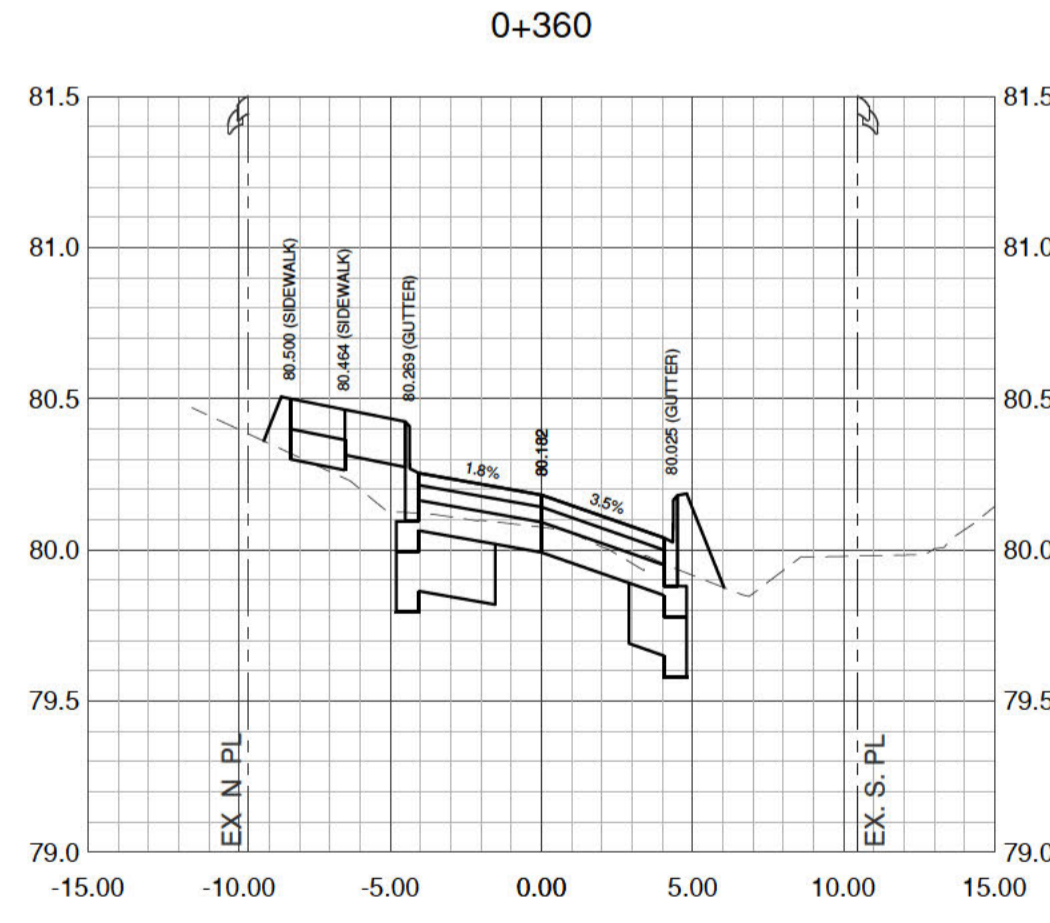
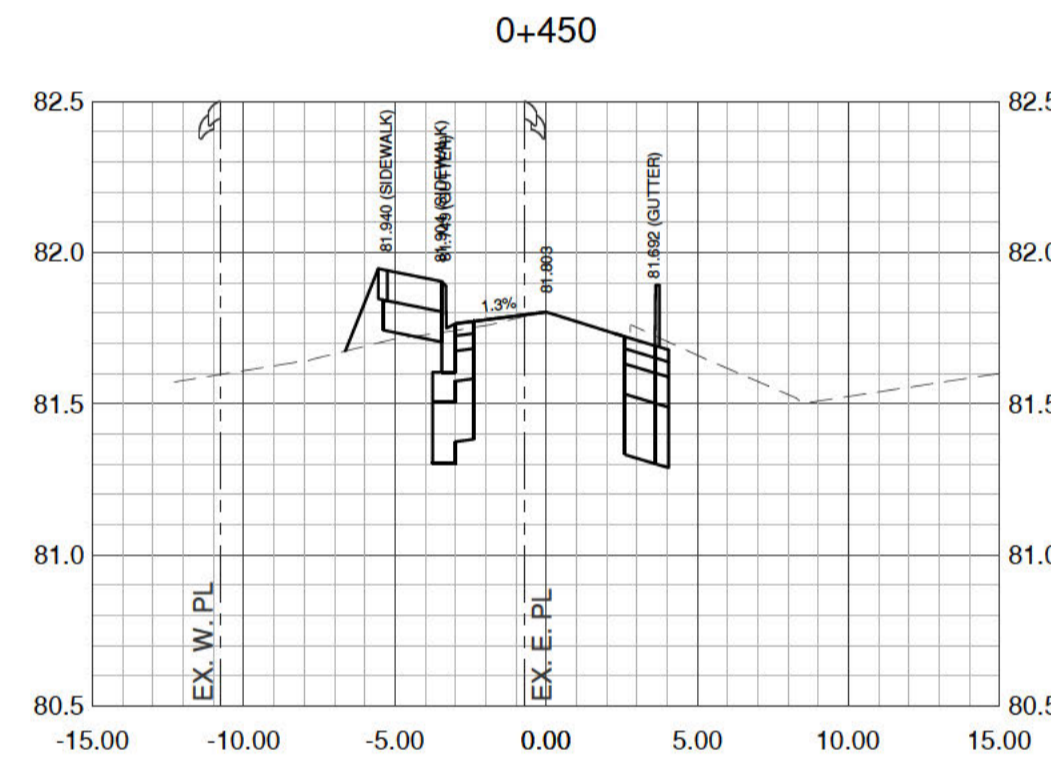
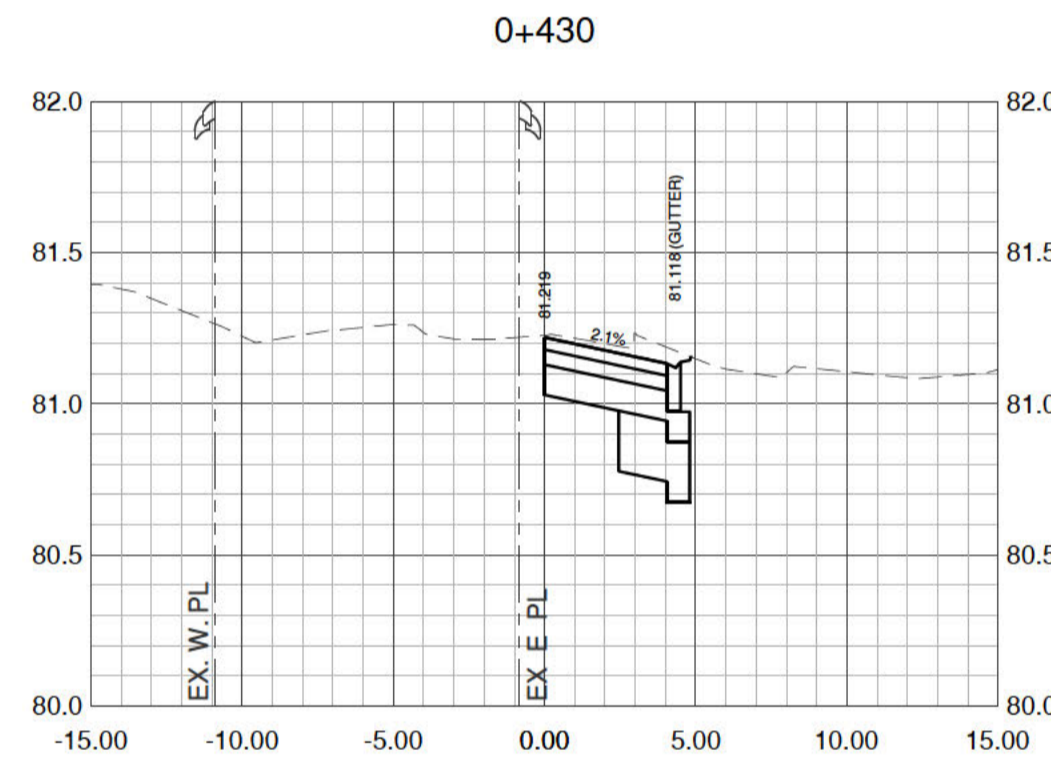
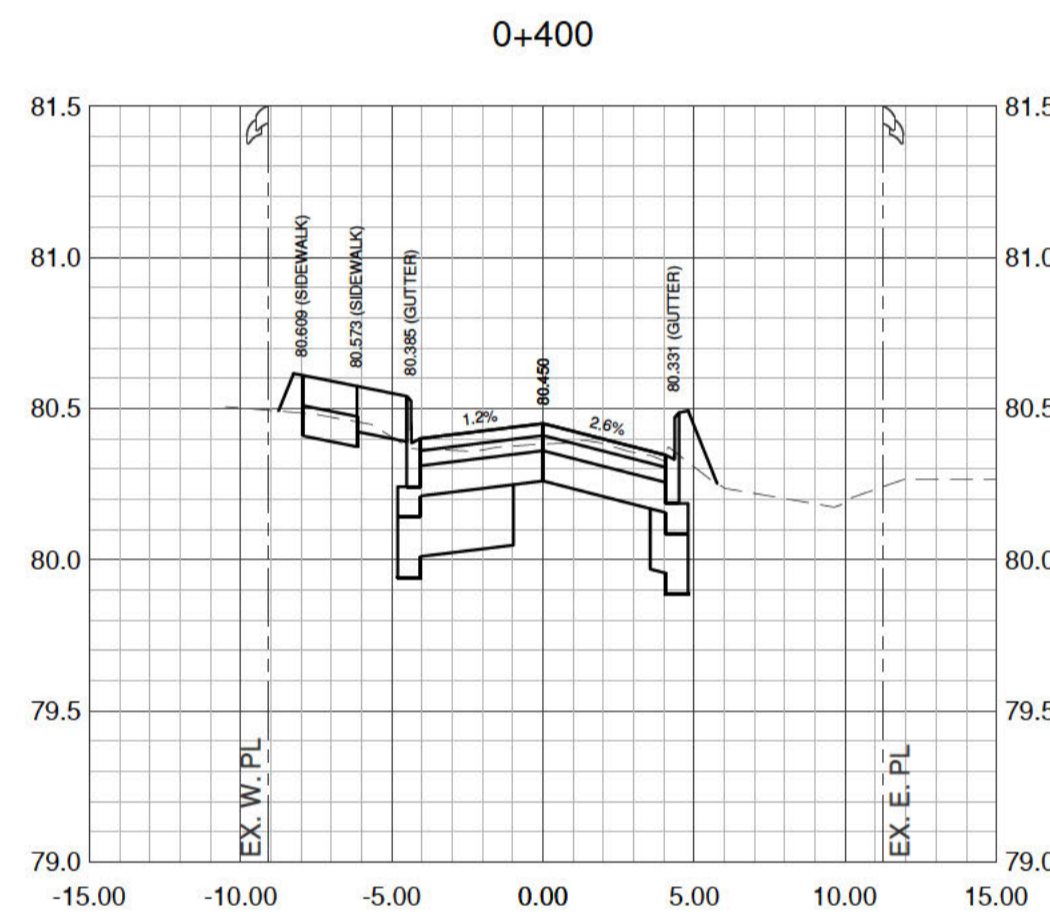
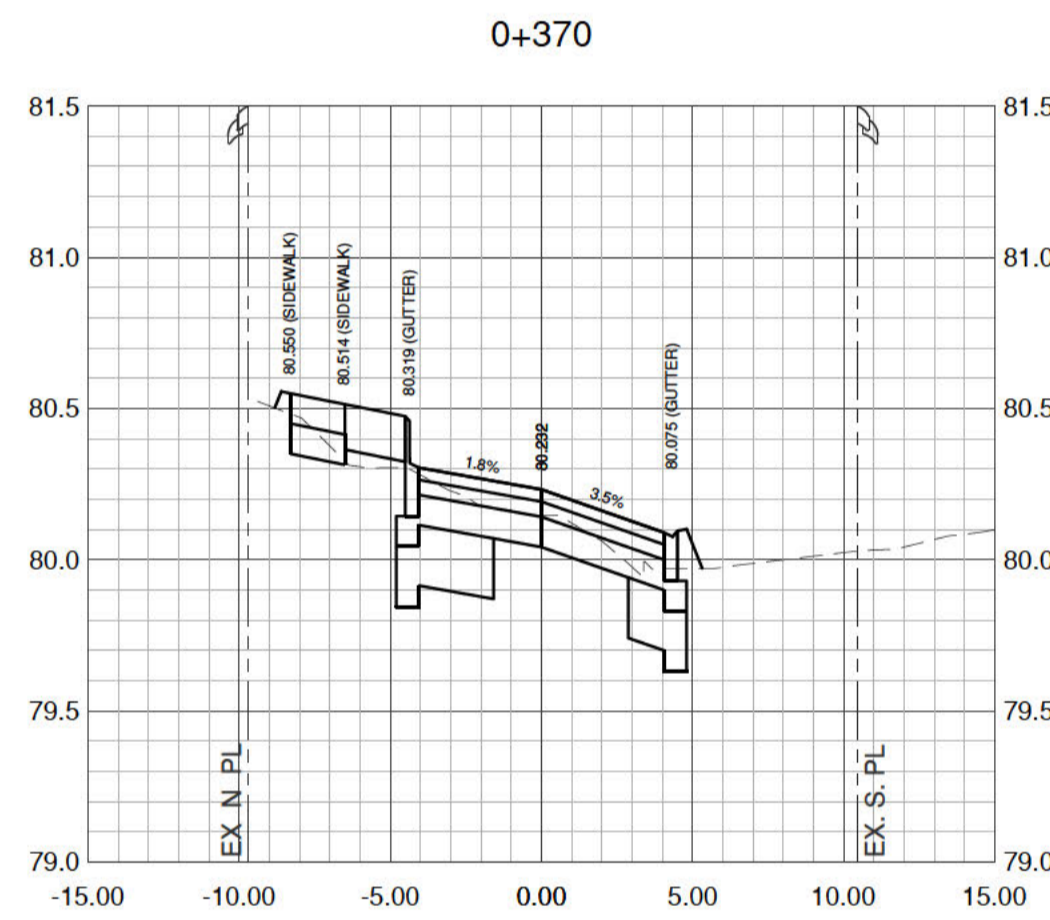
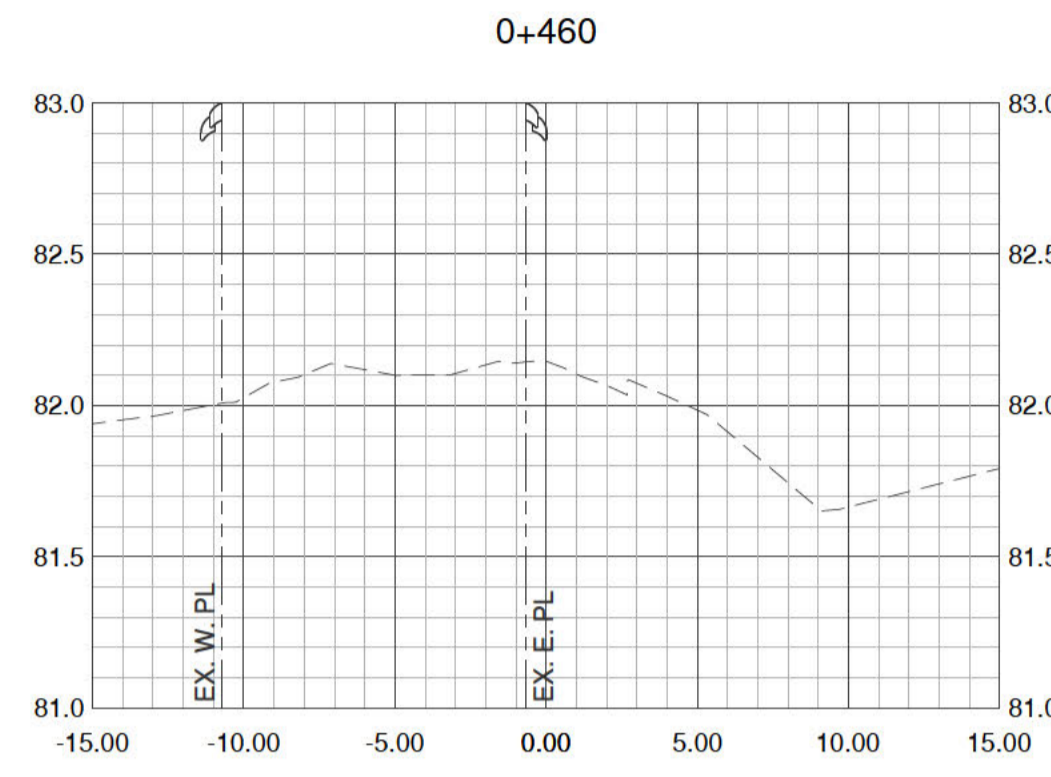
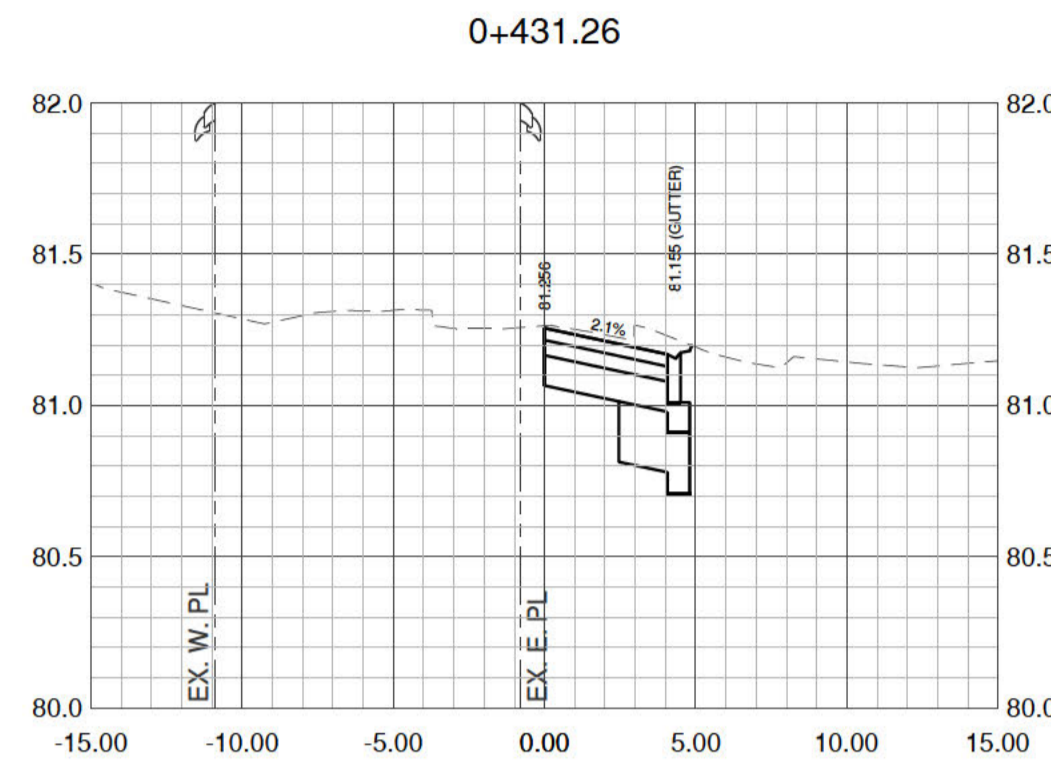
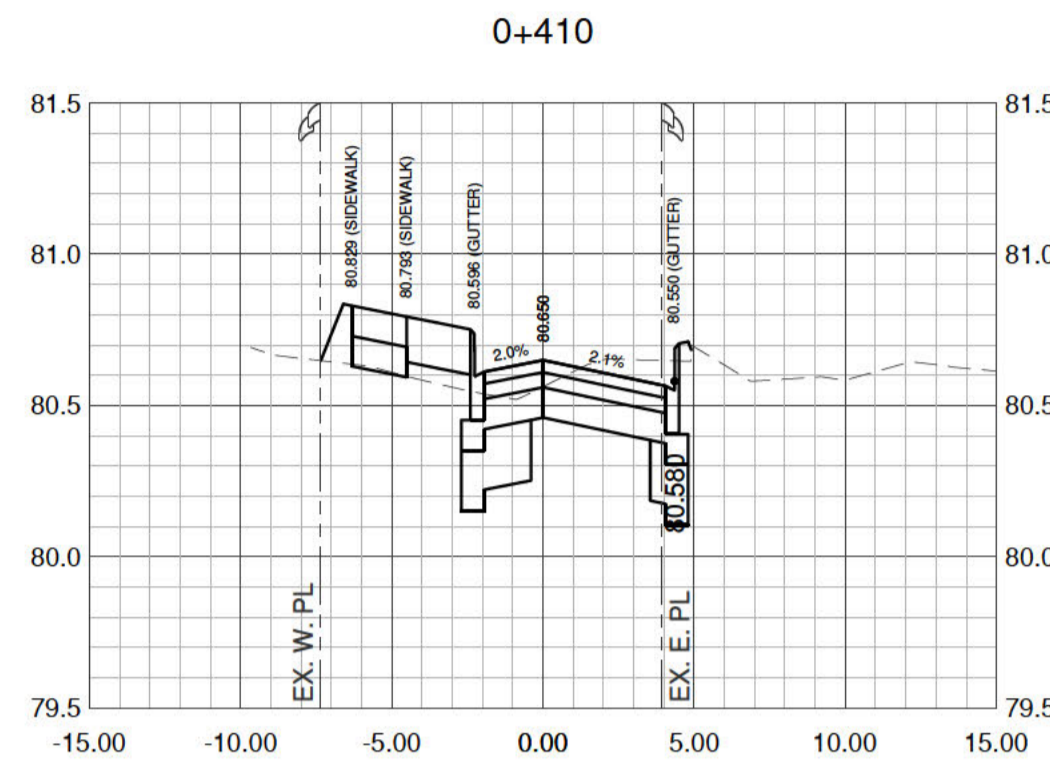
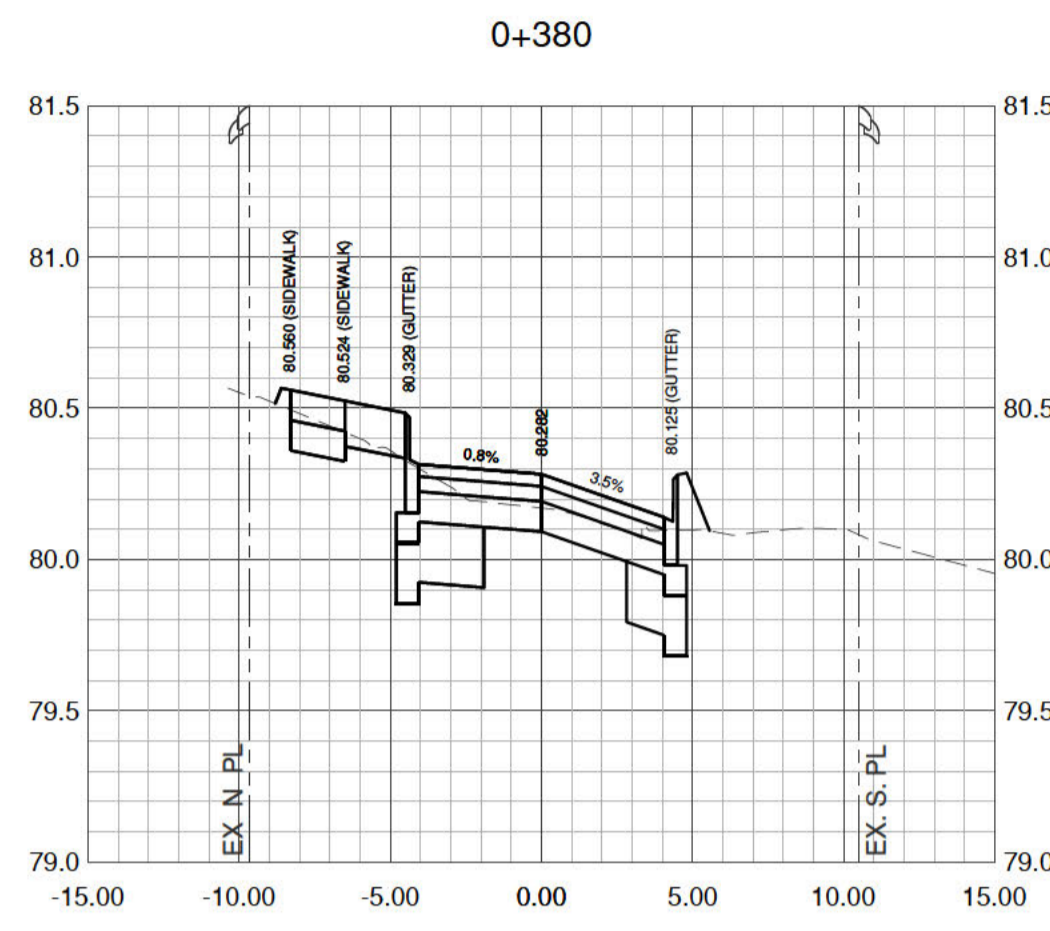
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 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
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 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-3

SHEET 12 OF 13
 REV. 2

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2	2020-07-20	PRELIMINARY DESIGN - CITY COMMENTS ADDRESSED	NM
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CLIENT
CITY OF WHITE ROCK
 877 KEIL STREET, WHITE ROCK, BC, V4B 4V6

DRAWING DESCRIPTION
BLACKBURN CRESCENT ROAD AND UTILITIES IMPROVEMENTS
BLACKBURN CRESCENT: ARCHIBALD ROAD TO HIGH STREET
CROSS SECTIONS

SURVEYED BY TA
 DRAWN BY SV
 DESIGNED BY RANM
 CHECKED BY RA

SCALES
 H 1:250
 V 1:25

DATE 2020-01-28
 DRAWING No.
20-0063-XS1-4

SHEET 13 OF 13
 REV. 2

DESTROY ALL PRINTS BEARING PREVIOUS No.