

VIS-ENG CONSULTING LTD.

CIVIL ENGINEERING & PROJECT MANAGEMENT
#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC, V7M 1A5
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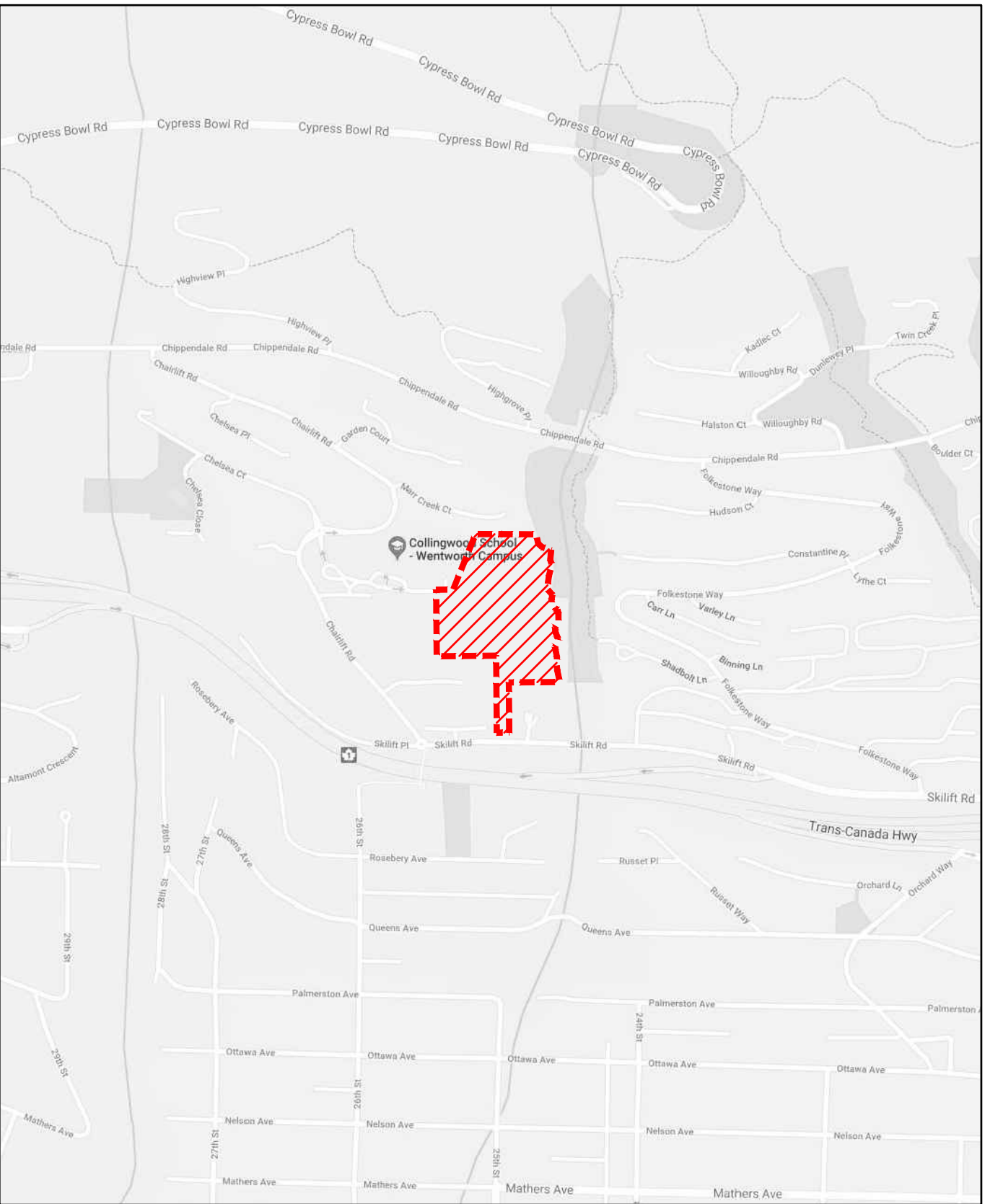
PROJECT:

WENTWORTH COLLINGWOOD WEST VANCOUVER, BC

CLIENT:

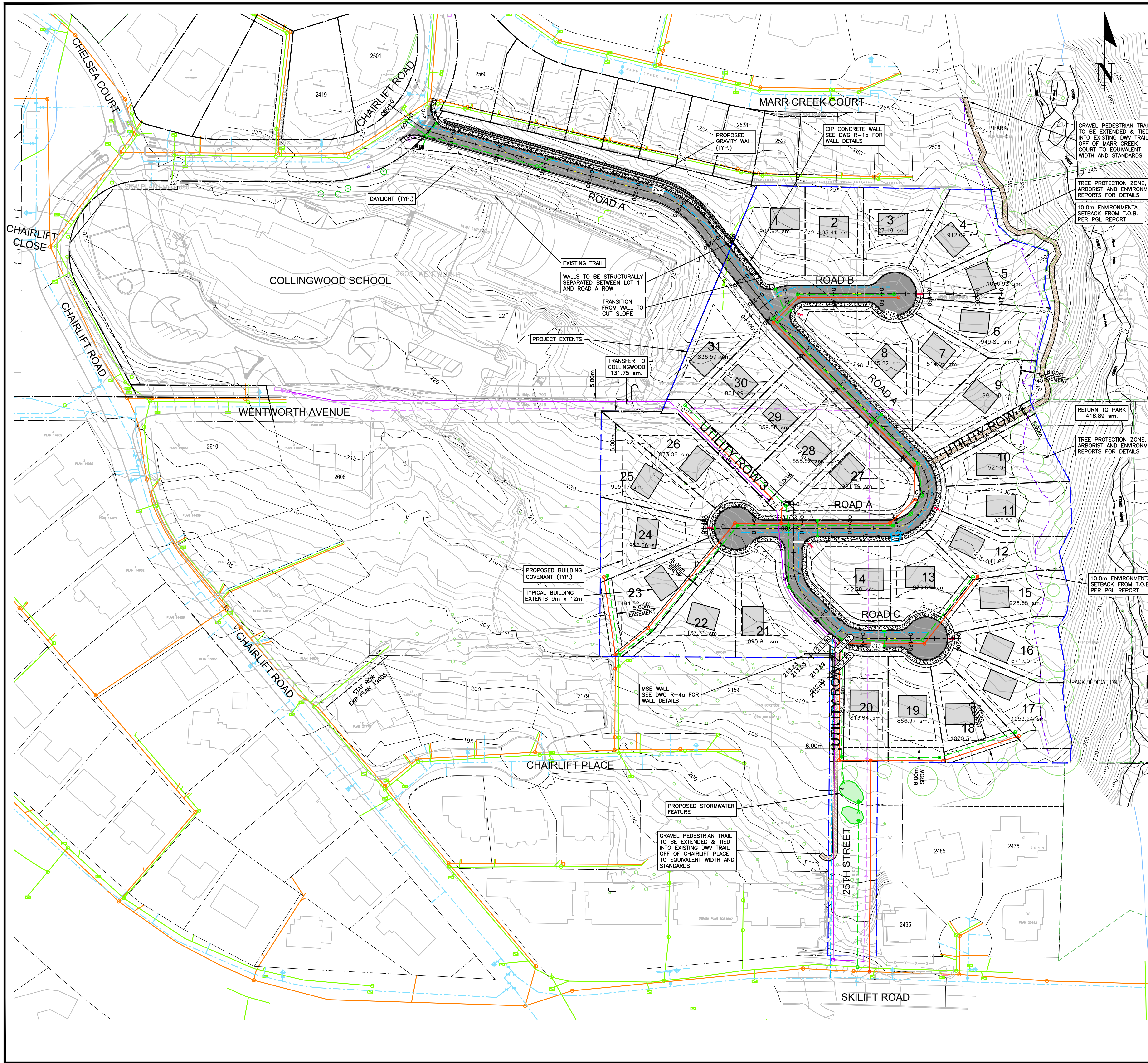
BRIVIA GROUP

	DRAWING LIST		
	DWG NO.		
1	KEY-1a	CONTEXT PLAN	
2	KEY-3a	KEYPLAN	
3	R-1a	ROADWORKS	ROAD A
4	R-2a	ROADWORKS	ROAD A
5	R-3a	ROADWORKS	ROAD A
6	R-4a	ROADWORKS	ROAD C
7	R-5a	ROADWORKS	ROAD B
8	SS-1	SITE SECTIONS 1	
9	SS-2	SITE SECTIONS 2	
10	SS-3	SITE SECTIONS 3	
11	XS-1a	CROSS SECTIONS	ROAD A
12	XS-2a	CROSS SECTIONS	ROAD A
13	XS-3a	CROSS SECTIONS	ROAD A
14	XS-4a	CROSS SECTIONS	ROAD A
15	XS-5a	CROSS SECTIONS	ROAD A
16	XS-6a	CROSS SECTIONS	ROAD B
17	XS-7a	CROSS SECTIONS	ROAD C
18	XS-8a	CROSS SECTIONS	ROAD C
19	DET-1	STANDARD DETAILS	
20	DET-2	STANDARD DETAILS	
21	DET-3	STANDARD DETAILS	
22	DET-4	STANDARD DETAILS	



LOCATION PLAN
SCALE NTS

2025-02-03
REISSUED FOR DP



SEE DRAWING ESC FOR SILTATION NOTES
SEE DRAWING C-1 FOR SANITARY AND STORM NOTES
SEE DRAWING C-2 FOR WATERWORKS NOTES
SEE DRAWING R-2 FOR ROADWORKS NOTES
SEE DRAWING R-4 FOR SIGNAGE & LINEPAINTING NOTES

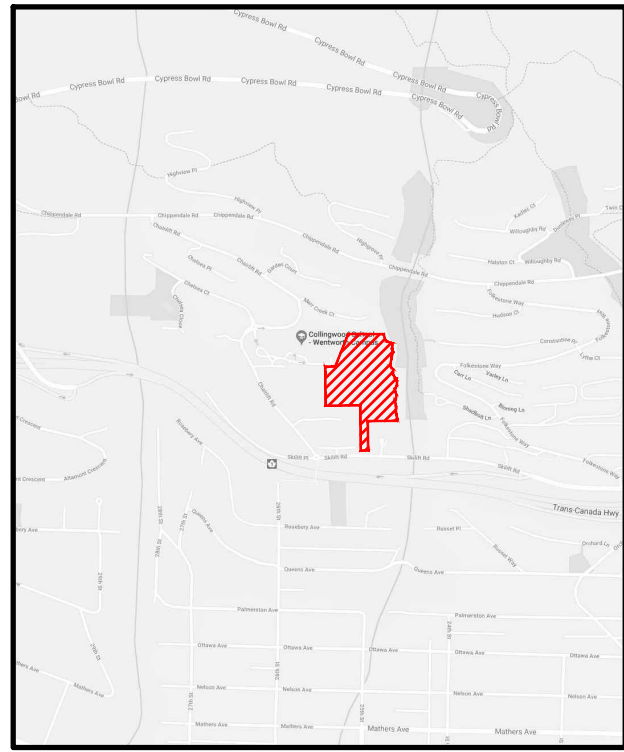
GENERAL NOTES

1. ALL CONSTRUCTION MUST CONFORM TO THE DISTRICT OF WEST VANCOUVER & MMCD SPECIFICATIONS AND MUST PASS THE ENGINEER'S INSPECTION UPON COMPLETION OF EACH STAGE OF CONSTRUCTION.
2. ALL CONSTRUCTION WITHIN THE PROPERTY MUST CONFORM TO THE MUNICIPAL STANDARDS, MASTER MUNICIPAL SPECIFICATIONS, CURRENT B.C. BUILDING CODE, & B.C. PLUMBING CODE.
3. THE CONTRACTOR MUST NOTIFY ENGINEER THEN THE DISTRICT OF WEST VANCOUVER, 48 HOURS PRIOR TO STARTING CONSTRUCTION TO ESTABLISH AN INSPECTION SCHEDULE.
4. THE CONTRACTOR SHALL ENSURE THAT ALL APPROVALS REQUIRED FOR THE PROPOSED WORK HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
5. A PRE-CONSTRUCTION MEETING BETWEEN ENGINEER, THE CONTRACTOR, AND DISTRICT OF WEST VANCOUVER IS REQUIRED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. CONTRACTOR TO PROVIDE EMERGENCY CONTACT LIST, INSURANCE AND SURETY DOCUMENTATION AND PROPOSED SCHEDULE OF WORK PRIOR TO PROCEEDING WITH WORKS.
7. A PORTION OF THE CONTRACT DOCUMENTS IS INCLUDED BY REFERENCE. COPIES OF THESE DOCUMENTS HAVE BEEN REFERENCED IN THE TENDER PACKAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CURRENT RELEVANT COPIES OF ALL DRAWINGS AND CONTRACT DOCUMENTS ARE FORWARDED TO SURVEYORS, TESTING AGENCIES, SUBCONTRACTORS, SUPERINTENDENTS, ESTIMATORS, PROJECT MANAGERS, SITE STAFF AND ANY OTHER RELEVANT PARTIES. CONTRACTOR CONFIRMS THEY HAVE REVIEWED SAME PRIOR TO SUBMITTING TENDER.
8. THE CONTRACTOR WILL CONSTRUCT ALL WORKS TO THE SATISFACTION OF THE INSPECTORS FROM THE ENGINEER AND THE REGULATORY AUTHORITY. IF APPLICABLE ADDITIONALLY, THE TELUS WORKS UNDER THE DIRECTION AND TO THE SATISFACTION OF THE TELUS INSPECTOR, HYDRO WORKS TO SATISFACTION OF THE BC HYDRO INSPECTOR, TERASEN WORKS TO SATISFACTION OF THE TERASEN INSPECTOR, SHAW WORKS TO SATISFACTION OF THE SHAW INSPECTOR. THE CONTRACTOR WILL FORWARD TO THE ENGINEER CERTIFICATION OF ACCEPTANCE OR APPROVAL FROM THE ABOVE NOTED INSPECTORS ON COMPLETION OF THE WORK. ELECTRICAL WORKS, IF APPLICABLE TO ALSO BE UNDER PERMIT WITH BC ELECTRICAL SAFETY BRANCH WITH A COPY OF PERMIT AND SIGN OFF TO BE FORWARDED TO THE ENGINEER. CONTRACTOR TO GIVE TIMELY NOTICE TO RELEVANT INSPECTOR TO ALLOW FOR INSPECTION ON WORKS AND UPDATE ENGINEER ON SAME.
9. THE CONTRACTOR WILL PERFORM AT HIS OWN COST ALL TESTING REQUIRED BY THE REGULATORY AUTHORITY, MMCD AND THE ENGINEER. TESTING SHALL BE DONE BY AN INDEPENDENT SPECIALTY TESTING FIRM. CONTRACTOR TO GIVE ENGINEER NOTICE ON ALL TESTING COPIES OF TESTS TO BE FORWARDED DIRECTLY BY THE TESTING FIRM TO ENGINEER AND GEOTECHNICAL ENGINEER BY EMAIL.
10. SUB-CONTRACTORS SHALL NOT COMMUNICATE WITH THE ENGINEERS OR OWNER DIRECTLY ON ANY CONTRACTUAL OR TECHNICAL ISSUE. THEY SHALL DIRECT THEIR ISSUES TO THE CONTRACTOR DIRECTLY WHOSE RESPONSIBILITY IT TO DEAL WITH THESE ISSUES ON THEIR BEHALF WITH THE ENGINEER. REVIEW AND APPROVAL OF ANY CONTRACTUAL MATTER INCLUDING PROGRESS PAYMENT, CHANGE ORDER, PAYMENT OF HOLDBACK, FINAL PAYMENT, INSURANCE AND WARRANTY, ETC. SHALL DIRECTED TO THE ENGINEER. CONTRACTOR MUST ONLY TAKE DIRECTION FROM THE ENGINEER IN REGARDS TO CHANGES TO DESIGN OR EXTRA WORKS.
11. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR NOTIFIED TO THE CONTRARY BY THE ENGINEER, THE CONTRACTOR IS THE "PRIME CONTRACTOR" FOR THE PURPOSE OF ALL APPLICABLE LAWS RELATIVE TO OCCUPATIONAL HEALTH AND SAFETY, INCLUDING THE DISCHARGE OF ALL DUTIES OF THE "PRIME CONTRACTOR" UNDER THE WORKERS COMPENSATION ACT (BRITISH COLUMBIA). NOTWITHSTANDING THAT THE ENGINEER, THE OWNER OR AN OTHER CONTRACTOR MAY PROVIDE FROM TIME TO TIME SOME OF THE SERVICES NORMALLY PROVIDED BY SUCH "PRIME CONTRACTOR". IN THIS SECTION "PRIME CONTRACTOR" MEANS THE CONTRACTOR SO DEFINED UNDER THE WORKERS COMPENSATION ACT (BRITISH COLUMBIA).
12. LOCATIONS OF EXISTING UNDERGROUND SERVICES HAVE BEEN DETERMINED FROM UTILITY AS-CONSTRUCTED DRAWINGS. CONTRACTOR TO CONTACT BC ONE CALL AND PROVIDE COPIES TO ENGINEER AND VERIFY THE LOCATION OF ALL EXISTING SERVICES AND TO NOTIFY ENGINEER OF ANY DISCREPANCIES, CONFLICTS OR OMISSIONS PRIOR TO BEGINNING OF CONSTRUCTION.
13. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING NEAR EXISTING SERVICES AND ANY SERVICES DISTURBED ARE TO BE REPLACED TO THE SATISFACTION OF DWV, THE ENGINEER AND/OR APPROPRIATE UTILITY CORPORATION.
14. THE CONTRACTOR'S SURVEYOR WILL RECORD AND CERTIFY ALL INFORMATION REQUIRED FOR THE ENGINEER TO PROVIDE A COMPLETE SET OF AS-CONSTRUCTED DRAWINGS INCLUDING CENTERLINE, FOG LINE, EDGE OF ASPHALT, SIGNS, AND ALL APPURTENANCES. SEE SUPPLEMENTAL SPECIFICATION FOR DETAILS.
15. WHEN NO IMPROVEMENTS ARE PROPOSED UNDER THIS CONTRACT, THE EXISTING SECTION(S) OF ROADWAY SHALL BE KEPT CLEAN AND CLEAR FOR THE DURATION OF CONSTRUCTION AND LEFT IN SAME CONDITION AS PRIOR TO CONSTRUCTION.
16. TRAFFIC CONTROL PER THE MINISTRY OF TRANSPORTATION "TRAFFIC MANUAL FOR WORK ON ROADWAYS" AND AS PER THE TRANSPORTATION ASSOCIATION OF CANADA "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" CONTRACTOR TO SUBMIT PLAN FOR TRAFFIC MANAGEMENT FOR APPROVAL AND RECEIVE SAME PRIOR TO PROCEEDING WITH WORKS.
17. VEHICULAR ACCESS TO EXISTING DWELLINGS TO BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONTRACT.
18. PEDESTRIANS SHALL BE PROTECTED AT ALL TIMES. ANY CLOSURES OF THE SIDEWALK OR LANES TO BE COORDINATED WITH AND APPROVED BY THE ENGINEER AND A PERMIT FROM REGULATORY AUTHORITY OBTAINED AND FORWARDED TO ENGINEER. CONTRACTOR TO PROVIDE REQUIRED NOTICES.
19. RESIDENTS DIRECTLY AFFECTED BY CONSTRUCTION OF THIS PROJECT SHALL BE GIVEN 48 HOURS WRITTEN NOTICE OF THE PROPOSED START OF CONSTRUCTION. IF CONSTRUCTION ENTERS ONTO PRIVATE PROPERTY, THE CONTRACTOR OR DEVELOPER'S AGENT WILL REQUIRED WRITTEN AUTHORIZATION FROM THE PRIVATE PROPERTY OWNER.
20. RETAINING DESIGNATED TREES IS OF PRIME IMPORTANCE. WHEN WORKING IN PROXIMITY TO A DESIGNATED TREE OR WHEN ROOTS ARE ENCOUNTERED, THE CONTRACTOR SHALL CONSULT A CERTIFIED ARBORIST BEFORE PROCEEDING TO PREVENT DAMAGE TO TREES.
21. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THAT NO SILT IS DISCHARGED TO THE STORM DRAINAGE SYSTEM, ROADWAYS OR ADJACENT PROPERTIES DURING THE COURSE OF CONSTRUCTION IN ACCORDANCE WITH DFO/MOELP'S "LAND DEVELOPMENT GUIDELINES FOR THE PROTECTION OF AQUATIC HABITAT".
22. FOR BC HYDRO, TELUS, AND TERASEN INSTALLATION, SEE APPROPRIATE UTILITY COMPANY DRAWINGS AND SPECIFICATIONS.
23. UPON COMPLETION OF WORKS, OWNER MUST CONDUCT CCTV TEST TO ENSURE NO CROSS CONNECTIONS & CONDITION OF PIPES. A COPY OF THE REPORT IS TO BE FORWARDED TO THE DISTRICT OF WEST VANCOUVER UTILITIES.
24. SEE LANDSCAPE DRAWINGS FOR PLANTING DETAILS.
25. SEE ELECTRICAL DRAWINGS FOR STREETLIGHTING PLANS.

CONTRACTOR TO VERIFY & LOCATE EXISTING MAINS & SERVICE CONNECTIONS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

NOT FOR CONSTRUCTION

PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

EXISTING	PROPOSED	TO BE REMOVED
LEGAL LINE	---	---
EXISTING WATERMAIN	---	---
EXISTING SANITARY	---	---
EXISTING HYDRO	---	---
EXISTING STREETLIGHT	---	---
EXISTING GATE VALVE	---	---
EXISTING AIR VALVE	---	---
EXISTING RELIEF VALVE	---	---
EXISTING INSPECTION CHAMBER	---	---
EXISTING CATCH BASIN (STV/SO)	---	---
EXISTING MANHOLE	---	---
EXISTING POWER POLE	---	---
EXISTING STREETLIGHT	---	---



2025-12-24

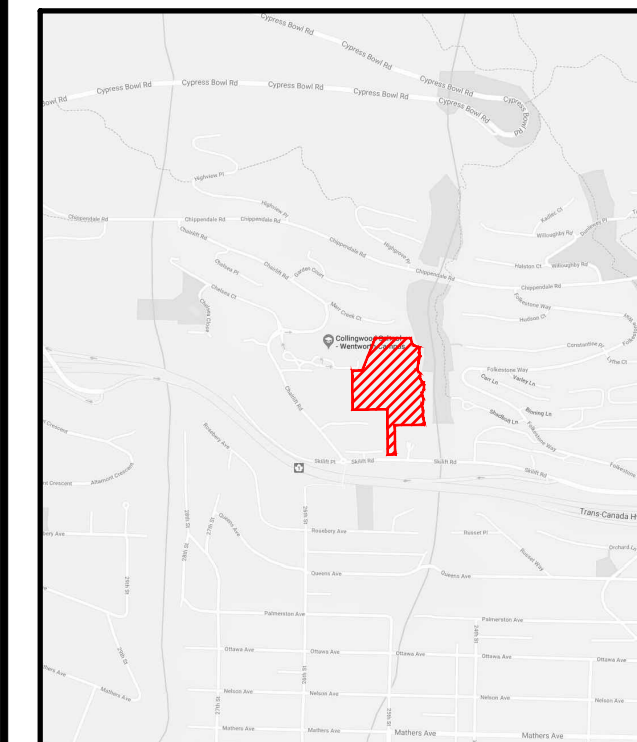
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WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

CONTEXT PLAN

no.	date	description	revision	drawn by
1	25-02-03	ISSUED FOR DP		CLW
2	25-09-03	ISSUED FOR DP		CLW
3	24-02-08	ISSUED FOR DP		CLW
4	24-12-07	ISSUED FOR DP		CLW
5	24-06-14	ISSUED FOR DP		CLW
6	24-08-06	ISSUED FOR CLIENT REVIEW		AG
7	24-08-03	REVISED AS PER DOW COMMENTS		DW
8	24-08-03	revision		CLW

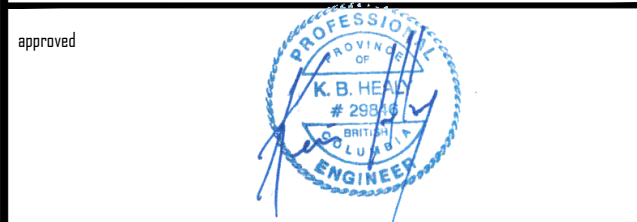
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engineer of record	KBH	scale	1:750
designed by	KBH	file no.	15171
drawn by	CLW	drawing no.	KEY-1a
date	2024-10-03		



SITE MAP

DRAWING LEGEND

EXISTING	PROP.	TO BE REMOVED
LEGAL LINE		
EXISTING		
PROP.		
TO BE REMOVED		
EXISTING		
PROP.		
TO BE REMOVED		
EXISTING		
PROP.		
TO BE REMOVED		



BRIVIA GROUP

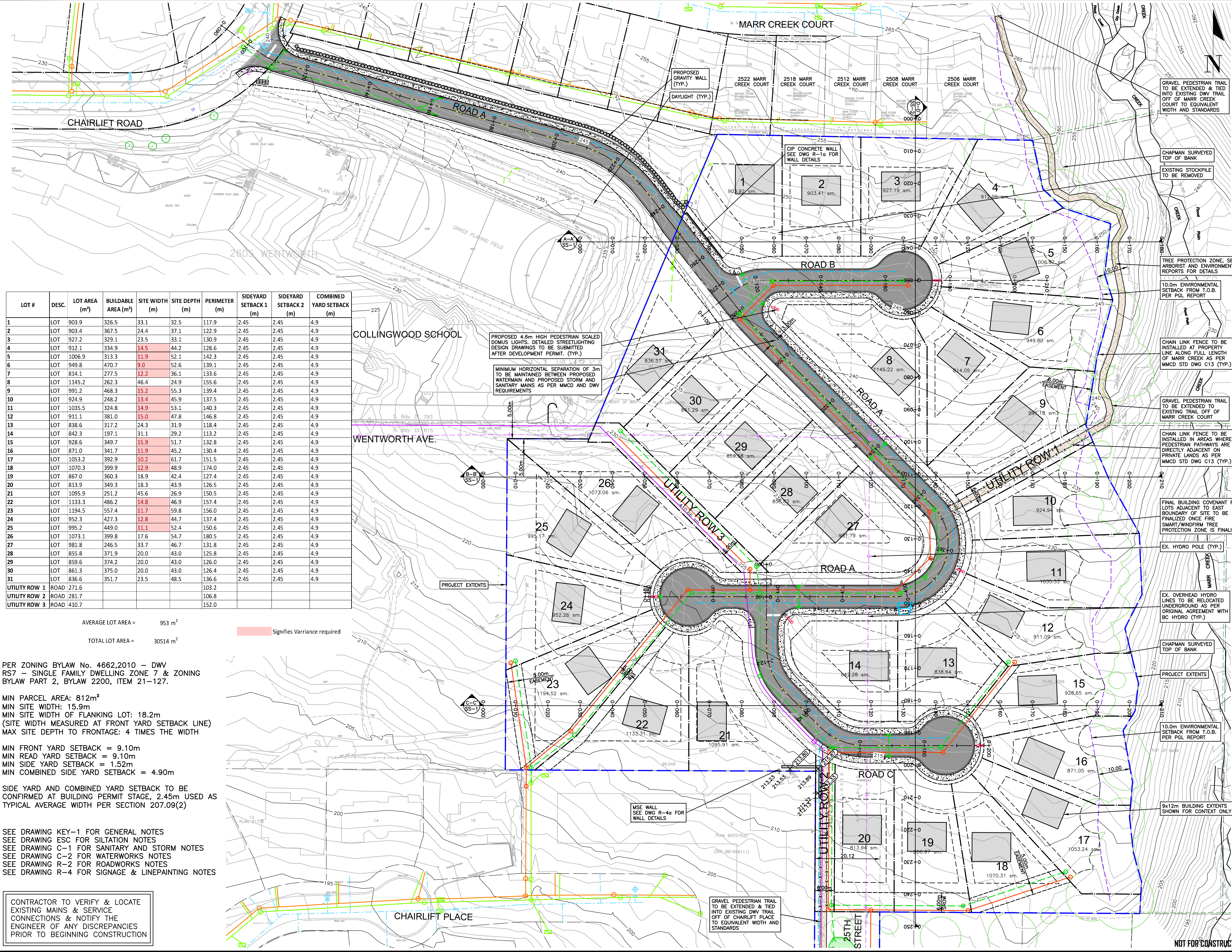
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

KEYPLAN

14

no.	date	revision	by	checked
14	25-02-03	REISSUED FOR DP	CLW	
13	25-09-03	REISSUED FOR DP	CLW	
12	24-02-08	REISSUED FOR DP	CLW	
11	24-12-07	REISSUED FOR DP	CLW	
10	24-04-14	ISSUED FOR DP	CLW	
9	24-04-06	ISSUED FOR CLIENT REVIEW	AG	
8	24-08-03	REVISED AS PER DOW COMMENTS	DW	

engineer of record	KBH	scale	1:500	vert.
designed by	KBH	file no.	15171	
drawn by	CLW	drawing no.	KEY-3a	
date	2022-10-03			



LOT #	DESC.	LOT AREA (m ²)	BUILDABLE AREA (m ²)	SITE WIDTH (m)	SITE DEPTH (m)	PERIMETER (m)	SIDEYARD SETBACK 1 (m)	SIDEYARD SETBACK 2 (m)	COMBINED YARD SETBACK (m)
1	LOT	903.9	326.5	33.1	32.5	117.9	2.45	2.45	4.9
2	LOT	903.4	367.5	24.4	37.1	122.9	2.45	2.45	4.9
3	LOT	927.2	329.1	23.5	33.1	130.9	2.45	2.45	4.9
4	LOT	912.1	334.9	14.5	44.2	128.6	2.45	2.45	4.9
5	LOT	1006.9	313.3	11.9	52.1	142.3	2.45	2.45	4.9
6	LOT	949.8	470.7	9.0	52.6	139.1	2.45	2.45	4.9
7	LOT	814.1	277.5	12.2	36.1	133.6	2.45	2.45	4.9
8	LOT	1145.2	262.3	46.4	24.9	155.6	2.45	2.45	4.9
9	LOT	991.2	468.3	15.2	55.3	139.4	2.45	2.45	4.9
10	LOT	924.9	248.2	13.4	45.9	137.5	2.45	2.45	4.9
11	LOT	1035.5	324.8	14.9	53.1	140.3	2.45	2.45	4.9
12	LOT	911.1	381.0	15.0	47.8	146.8	2.45	2.45	4.9
13	LOT	838.6	317.2	24.3	31.9	118.4	2.45	2.45	4.9
14	LOT	842.3	197.1	31.1	29.2	113.2	2.45	2.45	4.9
15	LOT	928.6	349.7	15.9	51.7	132.8	2.45	2.45	4.9
16	LOT	871.0	341.7	11.9	45.2	130.4	2.45	2.45	4.9
17	LOT	1053.2	392.9	10.2	61.7	151.5	2.45	2.45	4.9
18	LOT	1070.3	399.9	12.9	48.9	174.0	2.45	2.45	4.9
19	LOT	867.0	360.3	18.9	42.4	127.4	2.45	2.45	4.9
20	LOT	813.9	349.3	18.3	43.9	126.5	2.45	2.45	4.9
21	LOT	1095.9	251.2	45.6	26.9	150.5	2.45	2.45	4.9
22	LOT	1133.3	486.2	14.8	46.9	157.4	2.45	2.45	4.9
23	LOT	1194.5	557.4	11.7	59.8	156.0	2.45	2.45	4.9
24	LOT	952.3	427.3	12.8	44.7	137.4	2.45	2.45	4.9
25	LOT	995.2	449.0	11.1	52.4	150.6	2.45	2.45	4.9
26	LOT	1073.1	399.8	17.6	54.7	180.5	2.45	2.45	4.9
27	LOT	981.8	246.5	33.7	46.7	131.8	2.45	2.45	4.9
28	LOT	855.8	371.9	20.0	43.0	125.8	2.45	2.45	4.9
29	LOT	859.6	374.2	20.0	43.0	126.0	2.45	2.45	4.9
30	LOT	861.3	375.0	20.0	43.0	126.4	2.45	2.45	4.9
31	LOT	836.6	351.7	23.5	48.5	136.6	2.45	2.45	4.9
UTILITY ROW 1	ROAD	271.6				103.2			
UTILITY ROW 2	ROAD	281.7				106.8			
UTILITY ROW 3	ROAD	410.7				152.0			

AVERAGE LOT AREA = 953 m²

TOTAL LOT AREA = 30514 m²

Signifies Variance required

PER ZONING BYLAW No. 4662,2010 - DWV
RS7 - SINGLE FAMILY DWELLING ZONE 7 & ZONING
BYLAW PART 2, BYLAW 2200, ITEM 21-127.

MIN PARCEL AREA: 812m²
MIN SITE WIDTH: 15.9m
MIN SITE WIDTH OF FLANKING LOT: 18.2m
(SITE WIDTH MEASURED AT FRONT YARD SETBACK LINE)
MAX SITE DEPTH TO FRONTAGE: 4 TIMES THE WIDTH

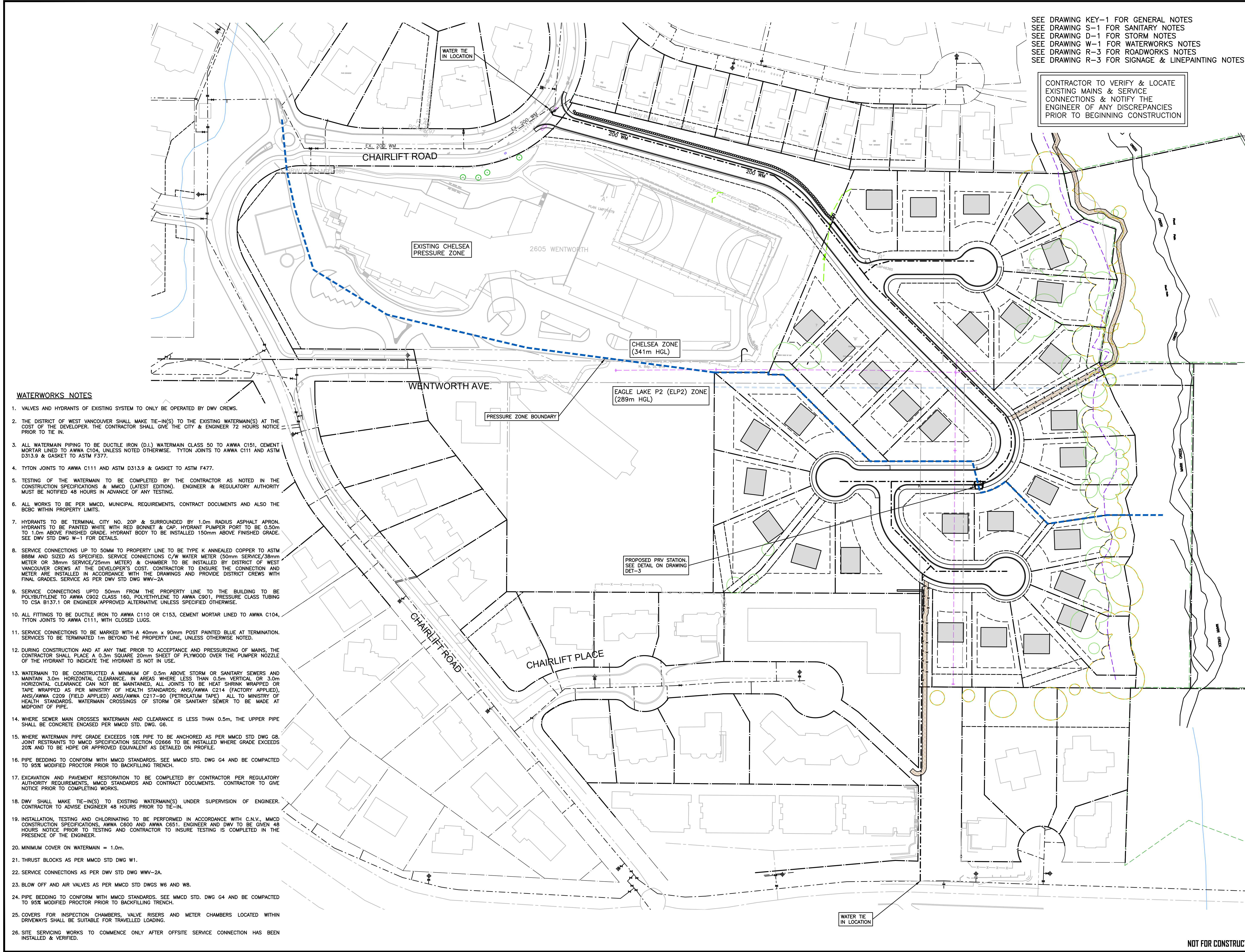
MIN FRONT YARD SETBACK = 9.10m
MIN REAR YARD SETBACK = 9.10m
MIN SIDE YARD SETBACK = 1.52m
MIN COMBINED SIDE YARD SETBACK = 4.90m

SIDE YARD AND COMBINED YARD SETBACK TO BE
CONFIRMED AT BUILDING PERMIT STAGE, 2.45m USED AS
TYPICAL AVERAGE WIDTH PER SECTION 207.09(2)

SEE DRAWING KEY-1 FOR GENERAL NOTES
SEE DRAWING ESC FOR SILTATION NOTES
SEE DRAWING C-1 FOR SANITARY AND STORM NOTES
SEE DRAWING C-2 FOR WATERWORKS NOTES
SEE DRAWING R-2 FOR ROADWORKS NOTES
SEE DRAWING R-4 FOR SIGNAGE & LINEPAINTING NOTES

CONTRACTOR TO VERIFY & LOCATE
EXISTING MAINS & SERVICE
CONNECTIONS & NOTIFY THE
ENGINEER OF ANY DISCREPANCIES
PRIOR TO BEGINNING CONSTRUCTION

NOT FOR CONSTRUCTION



WATERWORKS NOTES

1. VALVES AND HYDRANTS OF EXISTING SYSTEM TO ONLY BE OPERATED BY DWV CREWS.
2. THE DISTRICT OF WEST VANCOUVER SHALL MAKE TIE-IN(S) TO THE EXISTING WATERMAIN(S) AT THE COST OF THE DEVELOPER. THE CONTRACTOR SHALL GIVE THE CITY & ENGINEER 72 HOURS NOTICE PRIOR TO TIE IN.
3. ALL WATERMAIN PIPING TO BE DUCTILE IRON (D.I.) WATERMAIN CLASS 50 TO AWWA C151, CEMENT MORTAR LINED TO AWWA C104, UNLESS NOTED OTHERWISE. TYTON JOINTS TO AWWA C111 AND ASTM D313.9 & GASKET TO ASTM F377.
4. TYTON JOINTS TO AWWA C111 AND ASTM D313.9 & GASKET TO ASTM F477.
5. TESTING OF THE WATERMAIN TO BE COMPLETED BY THE CONTRACTOR AS NOTED IN THE CONSTRUCTION SPECIFICATIONS & MMCD (LATEST EDITION). ENGINEER & REGULATORY AUTHORITY MUST BE NOTIFIED 48 HOURS IN ADVANCE OF ANY TESTING.
6. ALL WORKS TO BE PER MMCD, MUNICIPAL REQUIREMENTS, CONTRACT DOCUMENTS AND ALSO THE BCBC WITHIN PROPERTY LIMITS.
7. HYDRANTS TO BE TERMINAL CITY NO. 20P & SURROUNDED BY 1.0m RADIUS ASPHALT APRON. HYDRANTS TO BE PAINTED WHITE WITH RED BONNET & CAP. HYDRANT PUMPER PORT TO BE 0.50m TO 1.0m ABOVE FINISHED GRADE. HYDRANT BODY TO BE INSTALLED 150mm ABOVE FINISHED GRADE. SEE DWV STD DWG W-1 FOR DETAILS.
8. SERVICE CONNECTIONS UP TO 50MM TO PROPERTY LINE TO BE TYPE K ANNEALED COPPER TO ASTM B88M AND SIZED AS SPECIFIED. SERVICE CONNECTIONS C/W WATER METER (50mm SERVICE/38mm METER OR 38mm SERVICE/25mm METER) & CHAMBER TO BE INSTALLED BY DISTRICT OF WEST VANCOUVER CREWS AT THE DEVELOPER'S COST. CONTRACTOR TO ENSURE THE CONNECTION AND METER ARE INSTALLED IN ACCORDANCE WITH THE DRAWINGS AND PROVIDE DISTRICT CREWS WITH FINAL GRADES. SERVICE AS PER DWV STD DWG WWV-2A
9. SERVICE CONNECTIONS, UP TO 50mm FROM THE PROPERTY LINE TO THE BUILDING TO BE POLYBUTYLENE TO AWWA C902 CLASS 160, POLYETHYLENE TO AWWA C901, PRESSURE CLASS TUBING TO CSA B137.1 OR ENGINEER APPROVED ALTERNATIVE UNLESS SPECIFIED OTHERWISE.
10. ALL FITTINGS TO BE DUCTILE IRON TO AWWA C110 OR C153, CEMENT MORTAR LINED TO AWWA C104, TYTON JOINTS TO AWWA C111, WITH CLOSED LUGS.
11. SERVICE CONNECTIONS TO BE MARKED WITH A 40mm x 90mm POST PAINTED BLUE AT TERMINATION. SERVICES TO BE TERMINATED 1m BEYOND THE PROPERTY LINE, UNLESS OTHERWISE NOTED.
12. DURING CONSTRUCTION AND AT ANY TIME PRIOR TO ACCEPTANCE AND PRESSURIZING OF MAINS, THE CONTRACTOR SHALL PLACE A 0.3m SQUARE 20mm SHEET OF PLYWOOD OVER THE PUMPER NOZZLE OF THE HYDRANT TO INDICATE THE HYDRANT IS NOT IN USE.
13. WATERMAIN TO BE CONSTRUCTED A MINIMUM OF 0.5m ABOVE STORM OR SANITARY SEWERS AND MAINTAIN 3.0m HORIZONTAL CLEARANCE. IN AREAS WHERE LESS THAN 0.5m VERTICAL OR 3.0m HORIZONTAL CLEARANCE CAN NOT BE MAINTAINED, ALL JOINTS TO BE HEAT SHRINK WRAPPED OR TAPE WRAPPED AS PER MINISTRY OF HEALTH STANDARDS: ANSI/AWWA C214 (FACTORY APPLIED), ANSI/AWWA C209 (FIELD APPLIED) ANSI/AWWA C217-90 (PETROLATUM TAPE) ALL TO MINISTRY OF HEALTH STANDARDS. WATERMAIN CROSSINGS OF STORM OR SANITARY SEWER TO BE MADE AT MIDPOINT OF PIPE.
14. WHERE SEWER MAIN CROSSES WATERMAIN AND CLEARANCE IS LESS THAN 0.5m, THE UPPER PIPE SHALL BE CONCRETE ENCASED PER MMCD STD. DWG. G6.
15. WHERE WATERMAIN PIPE GRADE EXCEEDS 10% PIPE TO BE ANCHORED AS PER MMCD STD DWG. G8. JOINT RESTRAINTS TO MMCD SPECIFICATION SECTION 02666 TO BE INSTALLED WHERE GRADE EXCEEDS 20% AND TO BE HDPE OR APPROVED EQUIVALENT AS DETAILED ON PROFILE.
16. PIPE BEDDING TO CONFORM WITH MMCD STANDARDS. SEE MMCD STD. DWG G4 AND BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO BACKFILLING TRENCH.
17. EXCAVATION AND PAVEMENT RESTORATION TO BE COMPLETED BY CONTRACTOR PER REGULATORY AUTHORITY REQUIREMENTS, MMCD STANDARDS AND CONTRACT DOCUMENTS. CONTRACTOR TO GIVE NOTICE PRIOR TO COMPLETING WORKS.
18. DWV SHALL MAKE TIE-IN(S) TO EXISTING WATERMAIN(S) UNDER SUPERVISION OF ENGINEER. CONTRACTOR TO ADVISE ENGINEER 48 HOURS PRIOR TO TIE-IN.
19. INSTALLATION, TESTING AND CHLORINATING TO BE PERFORMED IN ACCORDANCE WITH C.N.V., MMCD CONSTRUCTION SPECIFICATIONS, AWWA C600 AND AWWA C651. ENGINEER AND DWV TO BE GIVEN 48 HOURS NOTICE PRIOR TO TESTING AND CONTRACTOR TO INSURE TESTING IS COMPLETED IN THE PRESENCE OF THE ENGINEER.
20. MINIMUM COVER ON WATERMAIN = 1.0m.
21. THRUST BLOCKS AS PER MMCD STD DWG W1.
22. SERVICE CONNECTIONS AS PER DWV STD DWG WWV-2A.
23. BLOW OFF AND AIR VALVES AS PER MMCD STD DWGS W6 AND W8.
24. PIPE BEDDING TO CONFORM WITH MMCD STANDARDS. SEE MMCD STD. DWG G4 AND BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO BACKFILLING TRENCH.
25. COVERS FOR INSPECTION CHAMBERS, VALVE RISERS AND METER CHAMBERS LOCATED WITHIN DRIVEWAYS SHALL BE SUITABLE FOR TRAVELLED LOADING.
26. SITE SERVICING WORKS TO COMMENCE ONLY AFTER OFFSITE SERVICE CONNECTION HAS BEEN INSTALLED & VERIFIED.

SEE DRAWING KEY-1 FOR GENERAL NOTES
SEE DRAWING S-1 FOR SANITARY NOTES
SEE DRAWING D-1 FOR STORM NOTES
SEE DRAWING W-1 FOR WATERWORKS NOTES
SEE DRAWING R-3 FOR ROADWORKS NOTES
SEE DRAWING R-3 FOR SIGNAGE & LINEPAINTING NOTES

CONTRACTOR TO VERIFY & LOCATE EXISTING MAINS & SERVICE CONNECTIONS & NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING CONSTRUCTION

VIS-ENG
CONSULTING LTD.

CIVIL ENGINEERING & PROJECT MANAGEMENT
#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC V7M 1A5
PHONE: 604-278-4402 WEB: VIS-ENG.ca

PERMIT TO PRACTICE # 1005639

SITE MAP

DRAWING LEGEND

	EXISTING	PROP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
SANITARY	---	---	---
STORM	---	---	---
HYDRANT	---	---	---
STREETLIGHT	---	---	---
RAIL	---	---	---

	EXISTING	PROP.	TO BE REMOVED
FREE HYDRANT	---	---	---
GATE VALVE	---	---	---
AIR VALVE	---	---	---
REDUCER	---	---	---
WATERMETER CHAMBER	---	---	---
CATCHER/ST/ST/ST	---	---	---
APP	---	---	---
MANHOLE	---	---	---
POWER POLE	---	---	---
STREETLIGHT	---	---	---

approved
2025-10-03

client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

title
MASTER WATER PLAN

no.	date	revision	by
5	25-02-03	REISSUED FOR RP	CLW
4	25-01-03	REISSUED FOR RP	CLW
3	25-01-03	ISSUED FOR CLIENT REVIEW	CLW
2	18-07-01	ISSUED FOR SERVING AGREEMENT	ADC
1	17-12-05	ISSUED FOR SUBDIVISION SERVING	AAP

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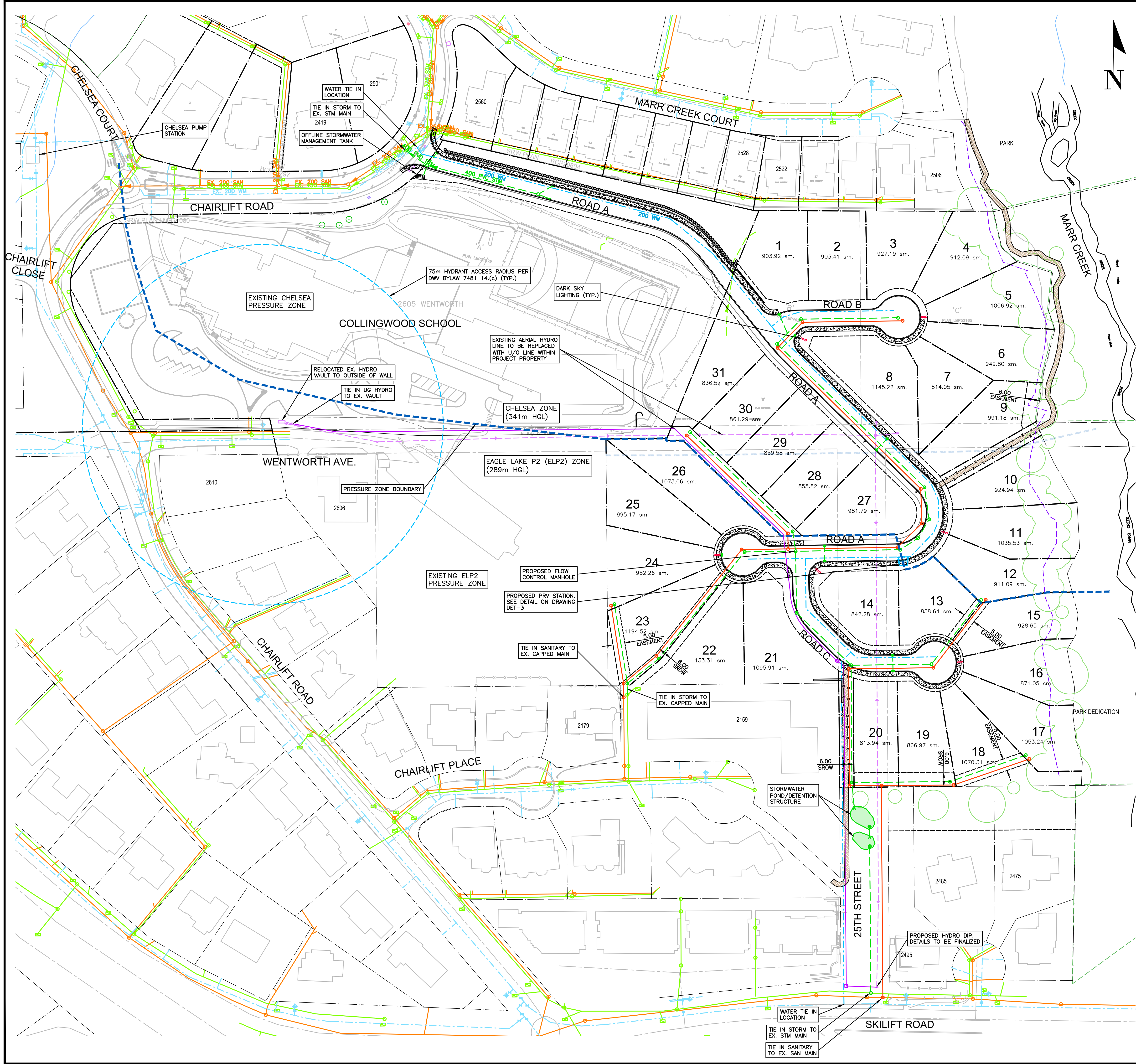
engineer of record
KBI
scale
1:750
hor.
vert.

designed by
KBI
file no.
15171

drawn by
AAP
drawing no.
MWP

date
2024-10-03

NOT FOR CONSTRUCTION



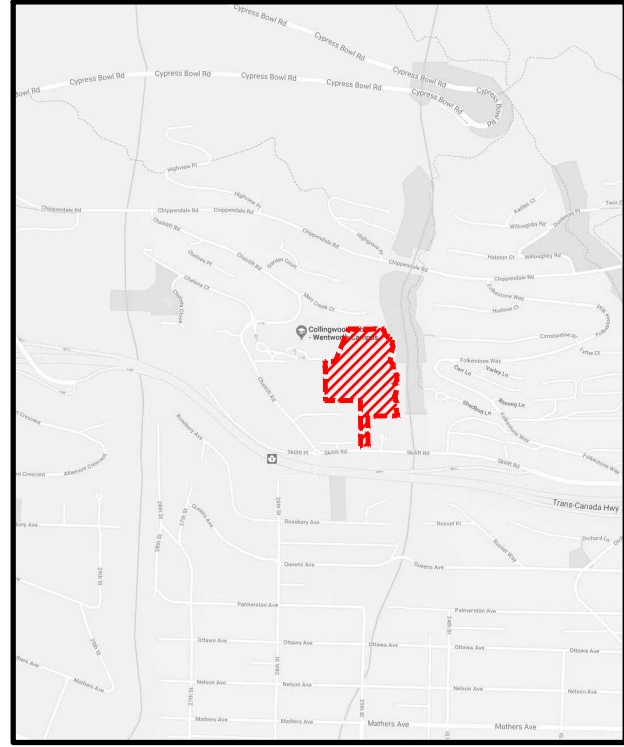
SEE DRAWING KEY-1 FOR GENERAL NOTES
SEE DRAWING ESC FOR SILTATION NOTES
SEE DRAWING C-2 FOR WATERWORKS NOTES
SEE DRAWING R-2 FOR ROADWORKS NOTES
SEE DRAWING R-4 FOR SIGNAGE & LINEPAINTING NOTES

CONTRACTOR TO VERIFY & LOCATE
EXISTING MAINS & SERVICE
CONNECTIONS & NOTIFY THE
ENGINEER OF ANY DISCREPANCIES
PRIOR TO BEGINNING CONSTRUCTION

STORM AND SANITARY NOTES

- SANITARY GRAVITY SEWERS TO BE PVC SDR 28 FOR SERVICE CONNECTIONS AND SDR 35 FOR MAIN LINES WHEN TESTED IN ACCORDANCE WITH ASTM D3034 & CSA B182.1. PIPE STIFFNESS (1/y) SHALL BE 314 kPa AT 2.5% DEFLECTION WHEN TESTED IN ACCORDANCE WITH ASTM D2412 UNLESS NOTED OTHERWISE.
- STORM GRAVITY SEWERS TO BE EITHER PVC SDR 28 FOR SERVICE CONNECTIONS AND SDR 35 FOR MAIN LINES AND CB LEADS WHEN TESTED IN ACCORDANCE WITH ASTM D3034 & CSA B182.1 (PIPE STIFFNESS (1/y) SHALL BE 314 kPa AT 2.5% DEFLECTION WHEN TESTED IN ACCORDANCE WITH ASTM D2412 UNLESS NOTED OTHERWISE), OR CONCRETE AND SHALL MEET ASTM C14 CLASS 3 OR IF INDICATED ON DRAWINGS SDR 35 FOR MAIN LINES WHEN TESTED IN ACCORDANCE WITH ASTM D3034 & CSA B182.1 (PIPE STIFFNESS (1/y) SHALL BE 314 kPa AT 2.5% DEFLECTION WHEN TESTED IN ACCORDANCE WITH ASTM D2412 UNLESS NOTED OTHERWISE).
- SANITARY FORCEMAINS ARE TO BE PVC TO AWWA C900 CLASS 150 OR HIGH DENSITY POLYETHYLENE SERIES 100 (DR17) OR BETTER, TO ASTM F714-85 & ASTM D-1248-84.
- STORM SERVICES TO BE MINIMUM SDR28 P.V.C. 150mm MIN C/W INSPECTION CHAMBER AT PROPERTY LINE AS PER MMCD STD. DWG S7
- SANITARY SERVICES TO BE MINIMUM SDR28 P.V.C. 100mm MIN c/w INSPECTION CHAMBER AT PROPERTY LINE AS PER MMCD STD. DWG S7
- CATCH BASIN RIMS TO BE SET 25mm BELOW GUTTER LINE ELEVATION.
- TESTING OF SEWERS TO BE PERFORMED IN THE PRESENCE OF ENGINEER INSPECTORS. 48 HOURS PRIOR NOTICE REQUIRED.
- ALL SEWERS TO BE T.V. CAMERA INSPECTED. T.V. CAMERA INSPECTION TO BE ARRANGED AND PAID FOR BY THE CONTRACTOR.
- ALL SEWER SERVICE CONNECTIONS ENTERING MANHOLES TO HAVE INVERT ELEVATION AT CROWN ELEVATION OF DOWNSTREAM SEWER OUTLET EXCEPT WHERE NOTED OTHERWISE.
- WHERE SANITARY PIPE GRADE EXCEEDS 15%, PIPE TO BE ANCHORED AS PER MMCD STD. DWG C8.
- MINIMUM GRADE ON SERVICE CONNECTIONS TO BE 2%, UNLESS NOTED OTHERWISE. SERVICE CONNECTIONS AS PER MMCD STD. DWG S7 AND S8.
- PIPE BEDDING TO CONFORM WITH MMCD STANDARDS. SEE MMCD STD. DWG G4 AND BE COMPACTED TO 95% MODIFIED PROCTOR PRIOR TO BACKFILLING TRENCH.
- ALL MANHOLES TO BE TO MMCD STD DWG S1. MINIMUM 1050 UNLESS OTHERWISE NOTED.
- EXCAVATION AND PAVEMENT RESTORATION TO BE COMPLETED BY CONTRACTOR PER REGULATORY AUTHORITY REQUIREMENTS, MMCD STANDARDS AND CONTRACT DOCUMENTS. CONTRACTOR TO GIVE NOTICE PRIOR TO COMPLETING WORKS.
- SERVICE CONNECTIONS TO BE MARKED WITH A 40mm x 90mm POST PAINTED RED FOR SANITARY AND GREEN FOR STORM AT TERMINATION. SERVICES TO BE TERMINATED 1m BEYOND THE PROPERTY LINE, UNLESS OTHERWISE NOTED.
- MIN. COVER FOR SANITARY = 1.5m UNDER TRAVELED AREAS AND 1.0m UNDER NON-TRAVELED AREAS.
- SITE SERVICING WORKS TO COMMENCE ONLY AFTER OFFSITE SERVICE CONNECTION HAS BEEN INSTALLED & VERIFIED.

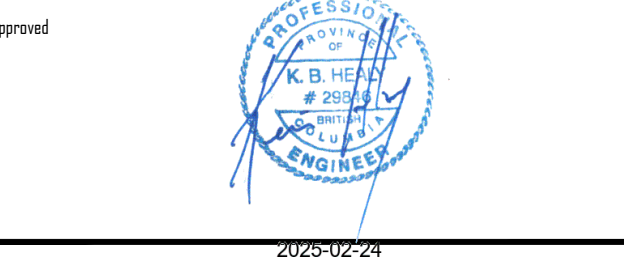
PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE			
EXISTING WATERMAIN			
EXISTING SANITARY			
EXISTING HYDRO			
EXISTING STREETLIGHT			
EXISTING GATE			
EXISTING VALVE			
EXISTING INSPECTION CHAMBER			
EXISTING CATCH BASIN (STD/SO)			
EXISTING MANHOLE			
EXISTING POWER POLE			
EXISTING STREETLIGHT			



BRIVIA GROUP

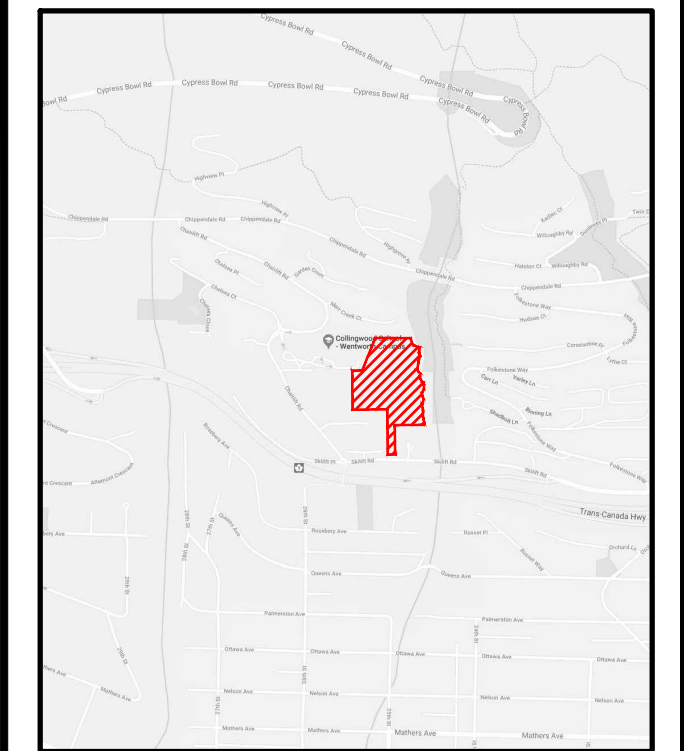
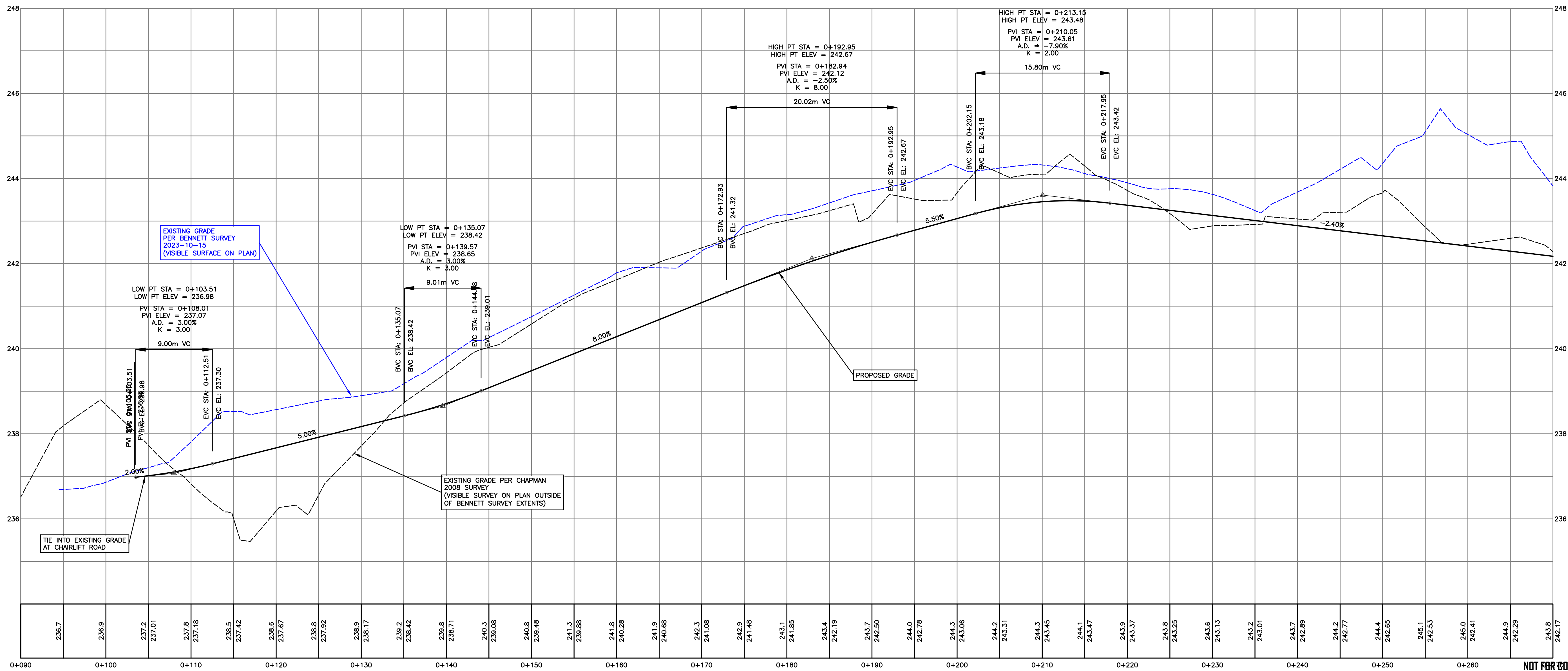
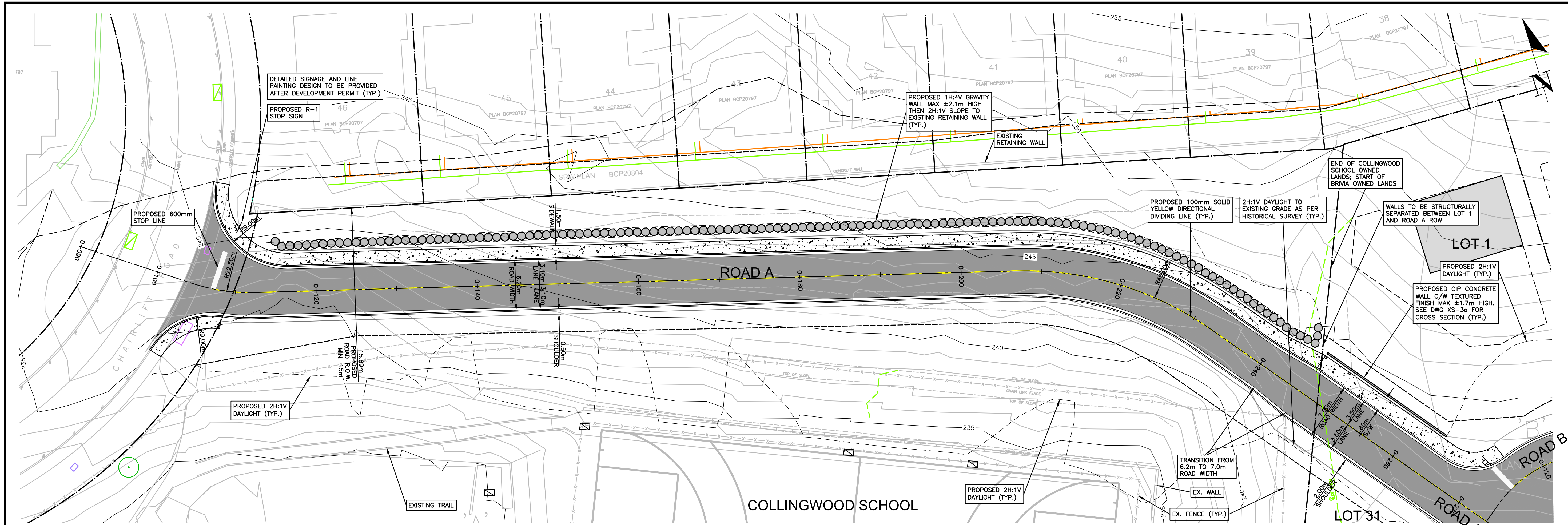
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

SERVICING PLAN
CONTEXT

8	25-02-03	REISSUED FOR DP	CLW
7	25-09-30	REISSUED FOR DP	CLW
6	24-02-08	REISSUED FOR DP	CLW
5	24-02-07	REISSUED FOR DP	CLW
4	24-01-14	ISSUED FOR DP	CLW
3	24-01-08	ISSUED FOR DEVELOPMENT PERMIT	AD
2	23-09-30	RE-ISSUED FOR DEVELOPMENT PERMIT	TJV
1	22-08-02	ISSUED FOR DEVELOPMENT PERMIT	TJV
Rev	1/1	revision	CLW

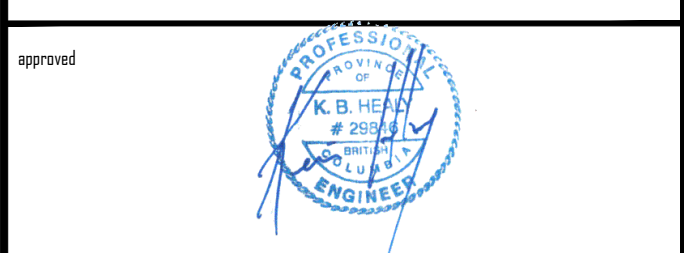
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engineer of record	KBH	scale	1:750
designed by	KBH	file no.	15171
drawn by	TJV	drawing no.	C-1
date	2023-10-03		

NOT FOR CONSTRUCTION



DRAWING LEGEND

EXISTING	PROP.	TO BE REMOVED
LEGAL LINE		
EXISTING		
PROPOSED		
TO BE REMOVED		
EXISTING		
PROPOSED		
TO BE REMOVED		
EXISTING		
PROPOSED		
TO BE REMOVED		



client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

revision
ROADWORKS
ROAD A

no.	by	date	description	checked
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2	KLH	25-09-03	REISSUED FOR DP	CLW
3	KLH	24-02-08	REISSUED FOR DP	CLW
4	KLH	24-12-07	REISSUED FOR DP	CLW
5	KLH	24-06-14	ISSUED FOR DP	CLW
6	KLH	24-08-05	ISSUED FOR CLIENT REVIEW	AD
7	KLH	24-08-03	REVISED AS PER DMY COMMENTS	DW

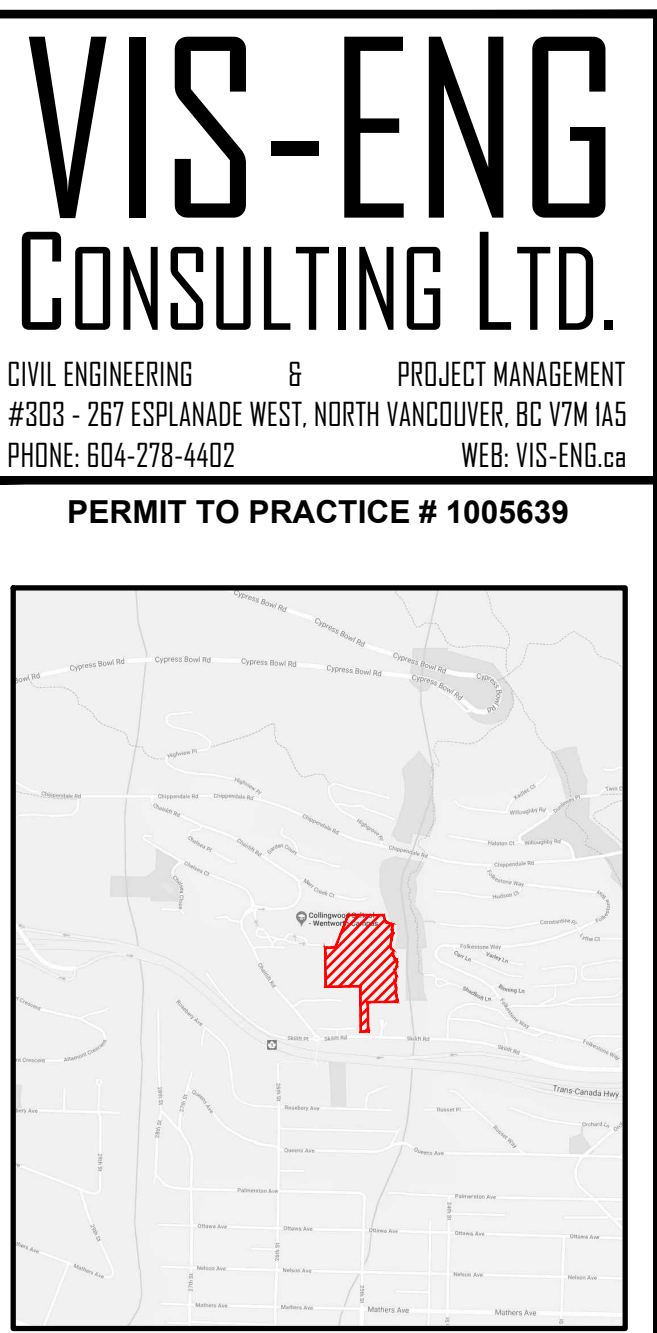
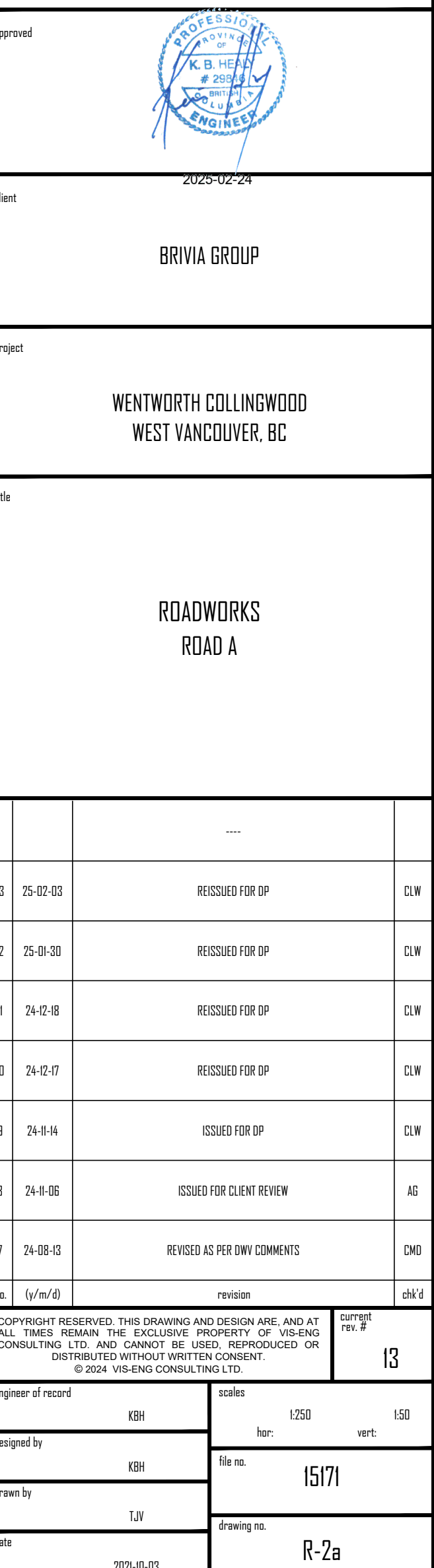
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4	KLH	24-12-07	REISSUED FOR DP	CLW
5	KLH	24-06-14	ISSUED FOR DP	CLW
6	KLH	24-08-05	ISSUED FOR CLIENT REVIEW	AD
7	KLH	24-08-03	REVISED AS PER DMY COMMENTS	DW

no.	by	date	description	checked
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2	KLH	25-09-03	REISSUED FOR DP	CLW
3	KLH	24-02-08	REISSUED FOR DP	CLW
4	KLH	24-12-07	REISSUED FOR DP	CLW
5	KLH	24-06-14	ISSUED FOR DP	CLW
6	KLH	24-08-05	ISSUED FOR CLIENT REVIEW	AD
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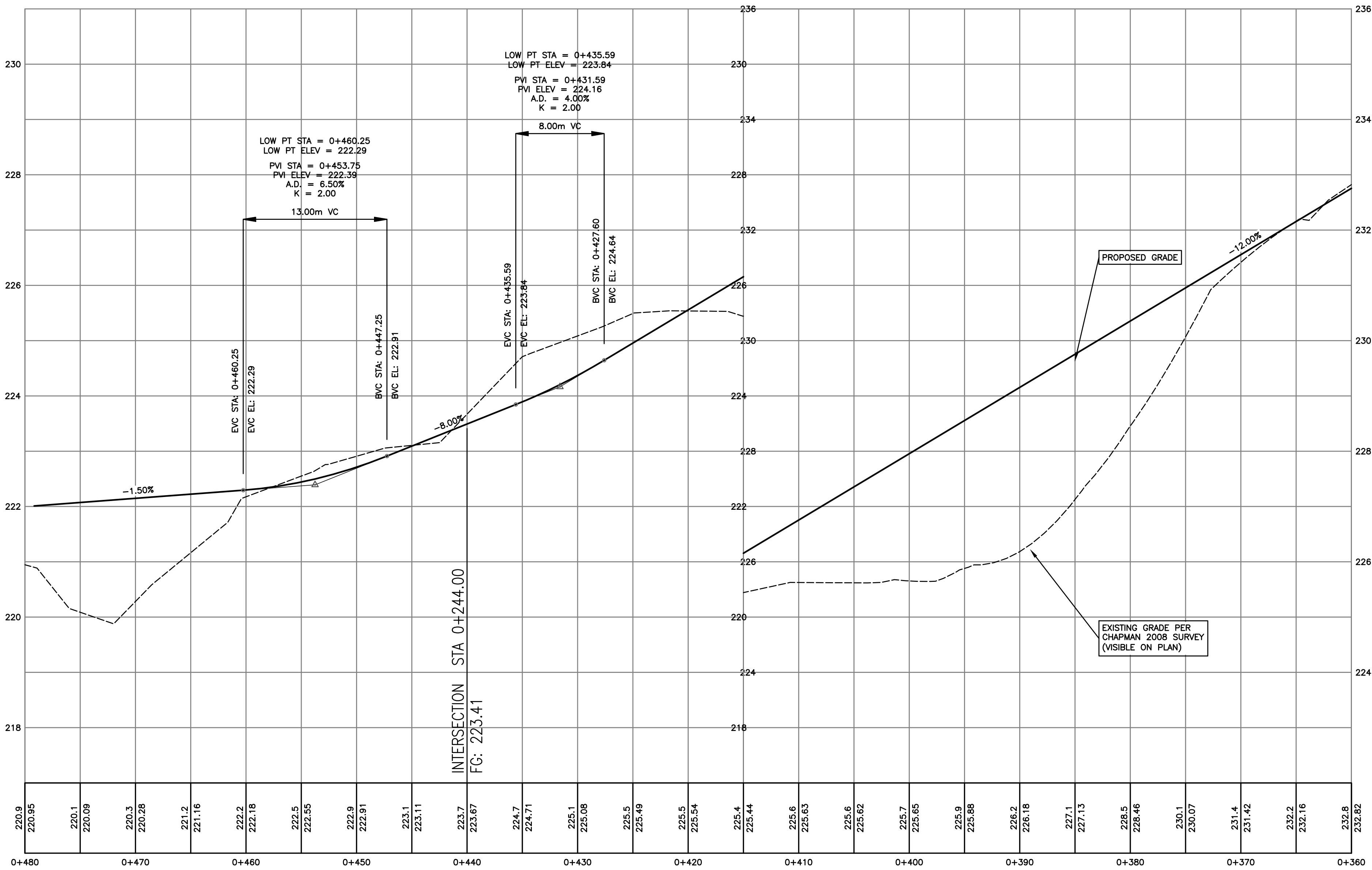
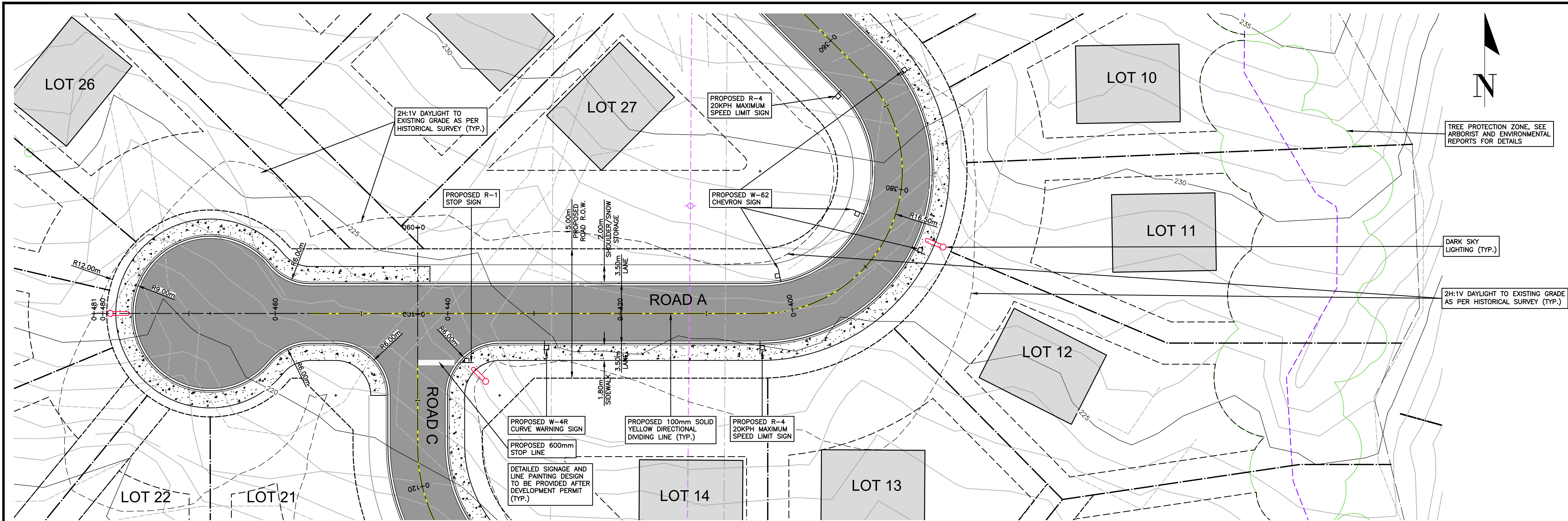
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4	KLH	24-12-07	REISSUED FOR DP	CLW
5	KLH	24-06-14	ISSUED FOR DP	CLW
6	KLH	24-08-05	ISSUED FOR CLIENT REVIEW	AD
7	KLH	24-08-03	REVISED AS PER DMY COMMENTS	DW

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engineer of record	scale	horizontal	vertical
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designed by	file no.		
KLH	15171		
drawn by	drawing no.		
KLH	R-1a		
date			
2024-10-03			

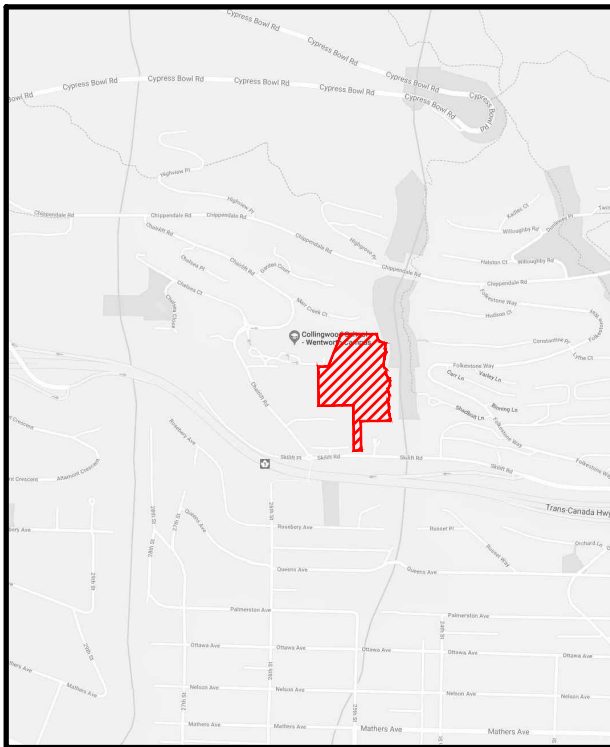
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NOT FOR CONSTRUCTION



NOT FOR CONSTRUCTION

PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERWAY	---	---	---
EXISTING STORM	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
EXISTING FIRE HYDRANT	---	---	---
EXISTING GATE VALVE	---	---	---
EXISTING AIR VALVE	---	---	---
EXISTING REDUCER	---	---	---
EXISTING INSPECTION CHAMBER	---	---	---
EXISTING CATCHBASIN (STV/SD)	---	---	---
EXISTING JUMP	---	---	---
EXISTING MANHOLE	---	---	---
EXISTING POWER POLE	---	---	---
EXISTING STREETLIGHT	---	---	---



client
BRIVIA GROUP

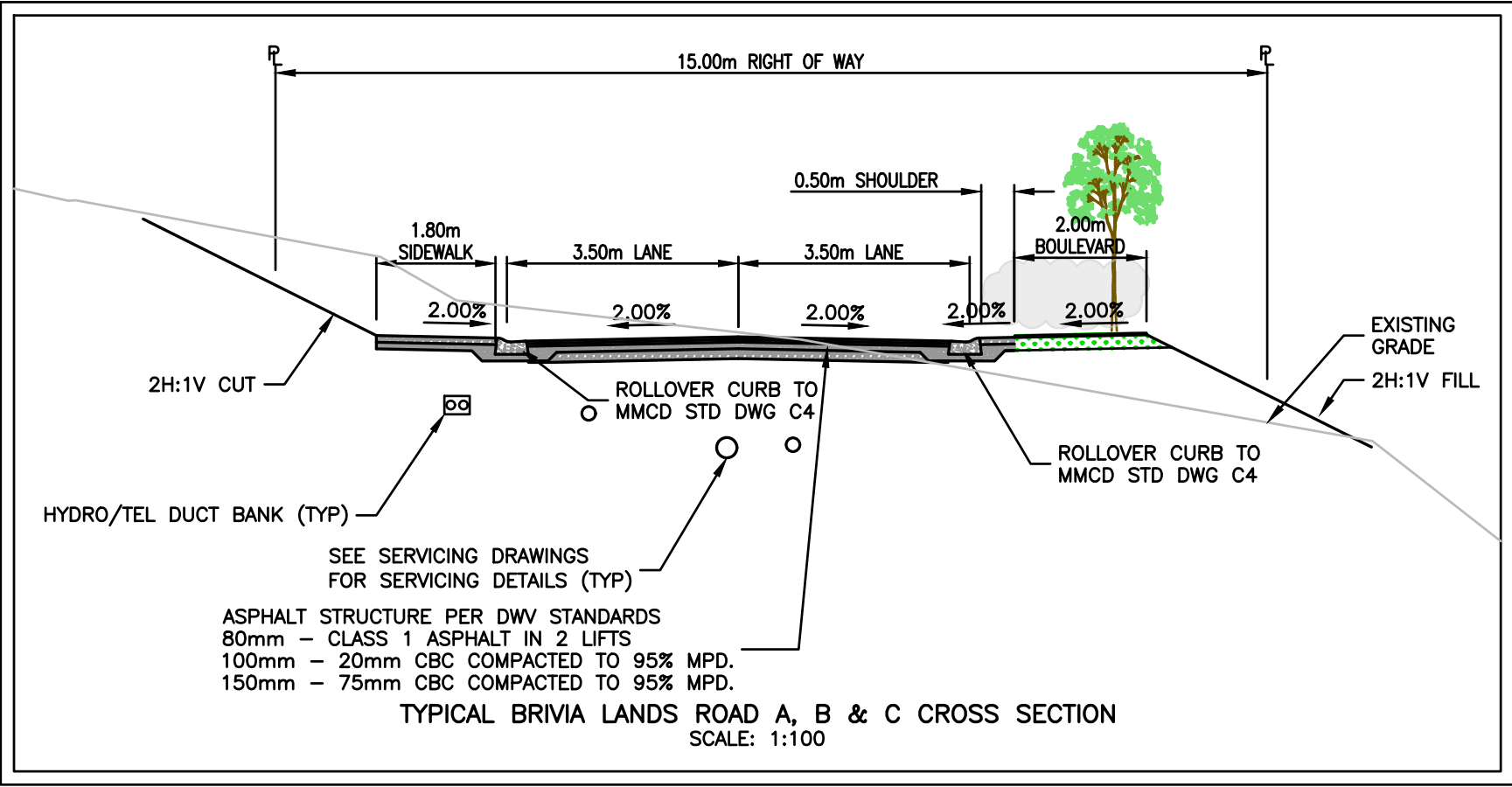
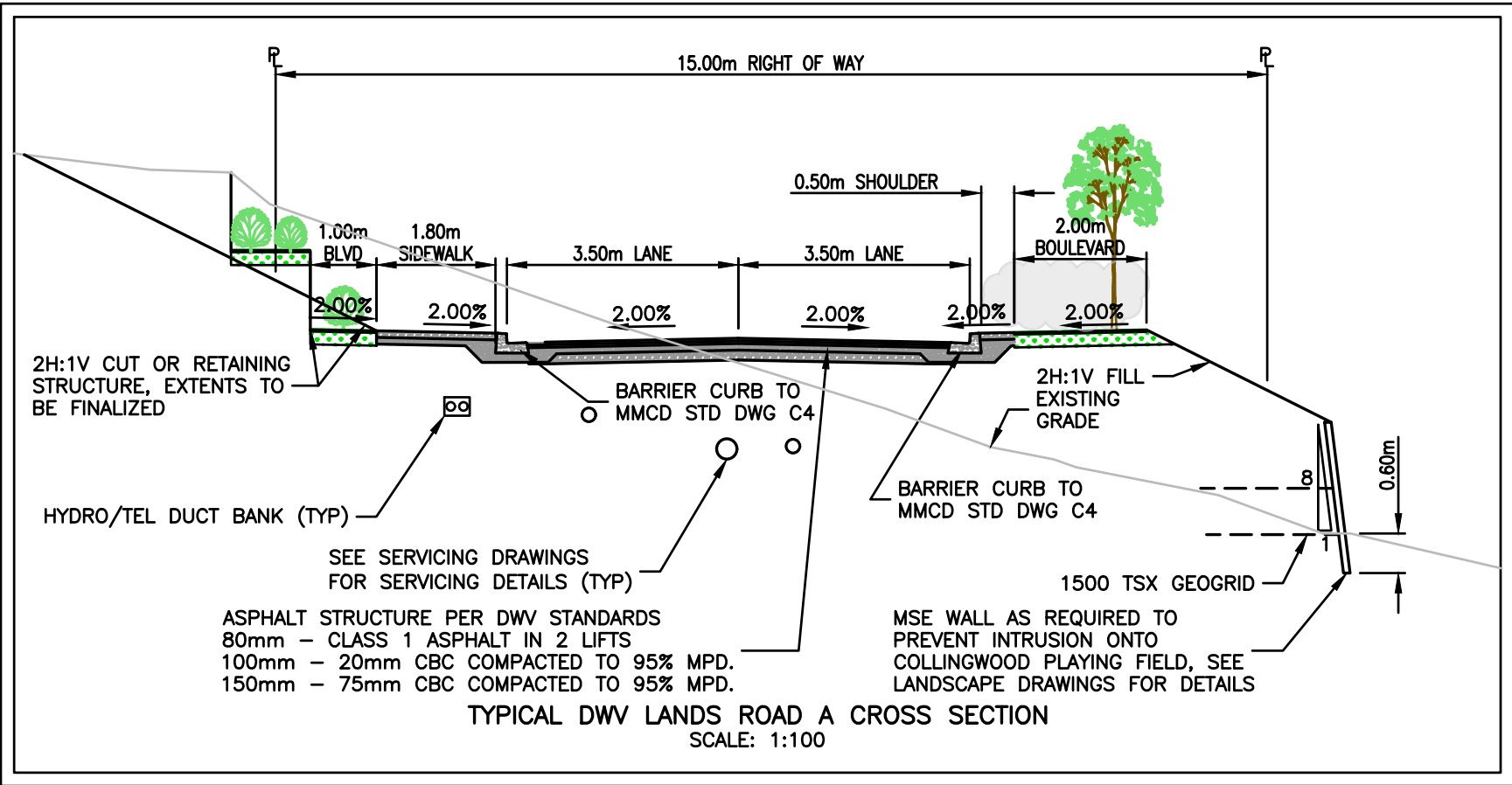
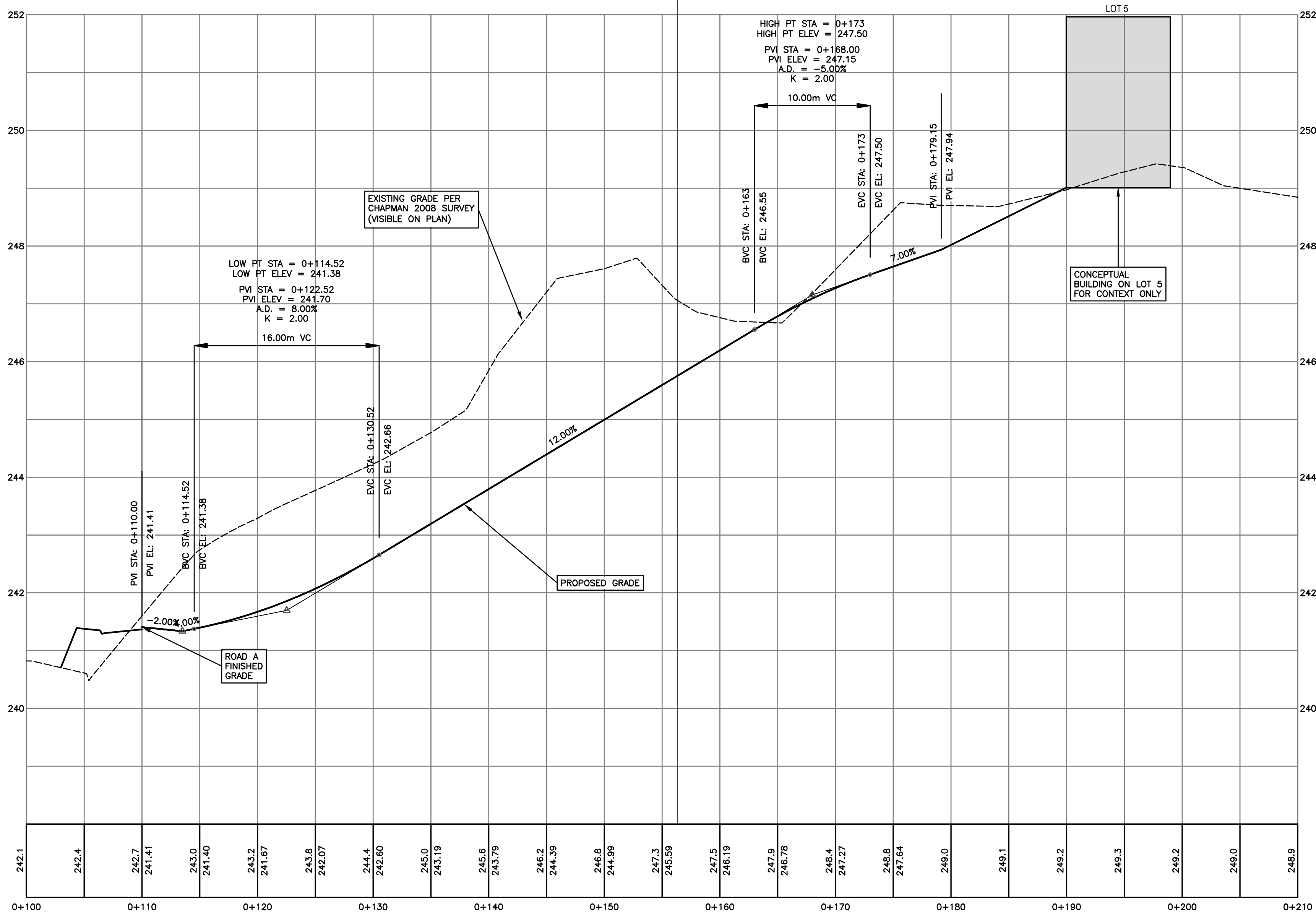
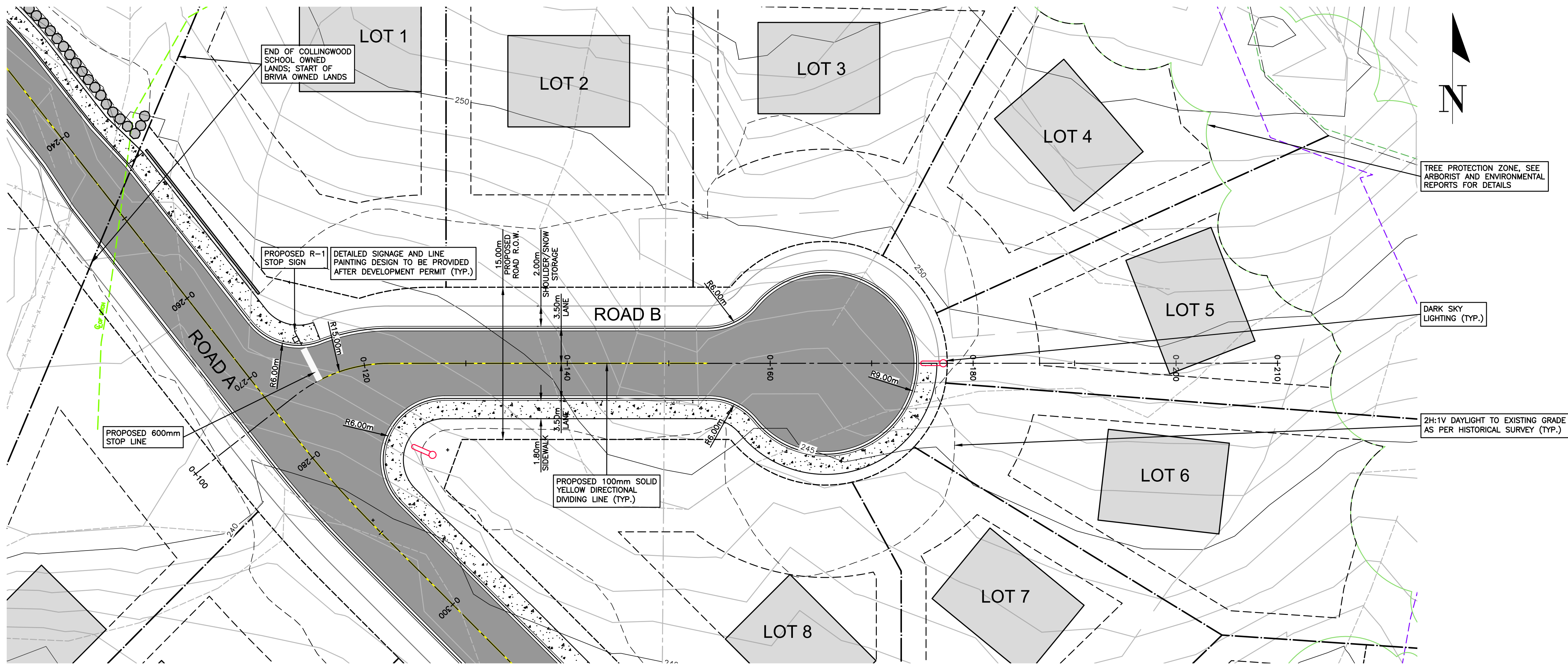
project
**WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC**

title
**ROADWORKS
ROAD A**

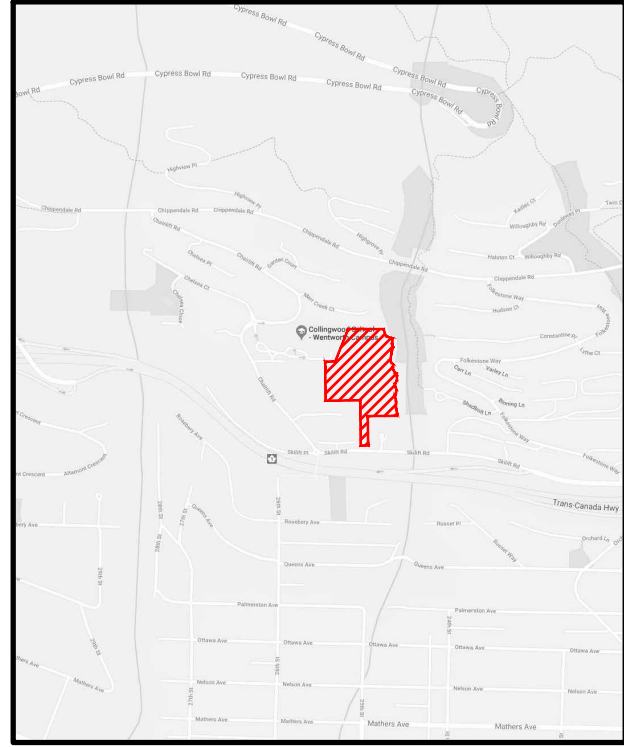
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10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-08-05	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMV COMMENTS	TJV

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designed by	KBH	file no.	15171	
drawn by	TJV	drawing no.	R-3a	
date	2023-10-03			



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SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
EXISTING FREE HYDRANT	---	---	---
EXISTING GATE VALVE	---	---	---
EXISTING AIR VALVE	---	---	---
EXISTING RELOCATOR	---	---	---
EXISTING INSPECTION CHAMBER	---	---	---
EXISTING CATCHBASIN (STD/SD)	---	---	---
EXISTING MANHOLE	---	---	---
EXISTING POWER POLE	---	---	---
EXISTING STREETLIGHT	---	---	---



client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

16%
ROADWORKS
ROAD B

no.	by	revision	date
13	25-02-03	REISSUED FOR DP	CLW
12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-06-06	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DWY COMMENTS	DWY

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drawn by	CLW	drawing no.	R-5a	
date	2024-10-03			

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PERMIT TO PRACTICE # 1005639

SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING	---	---	---
WATERMAIN	---	---	---
SEWER	---	---	---
HYDRO	---	---	---
STREETLIGHT	---	---	---
DATE	---	---	---
FREE HYDRANT	---	---	---
GATE VALVE	---	---	---
AR VALVE	---	---	---
REDUCER	---	---	---
INSPECTION CHAMBER	---	---	---
CATCHBASIN (STW/SD)	---	---	---
MANHOLE	---	---	---
POWER POLE	---	---	---
STREETLIGHT	---	---	---



client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

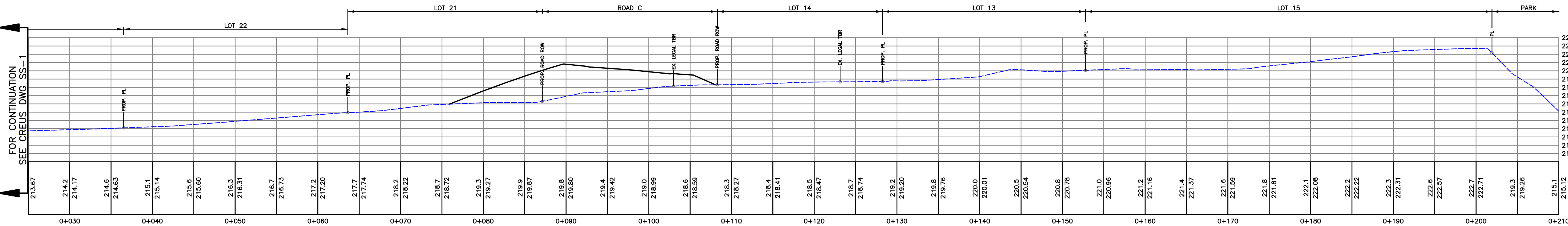
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no.	revision	revision	date
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2	25-08-30	REISSUED FOR DP	CLW
3	24-02-08	REISSUED FOR DP	CLW
4	24-02-07	REISSUED FOR DP	CLW
5	24-01-14	ISSUED FOR DP	CLW
6	24-08-05	ISSUED FOR CLIENT REVIEW	AD
7	24-08-03	REVISED AS PER DMY COMMENTS	DMD

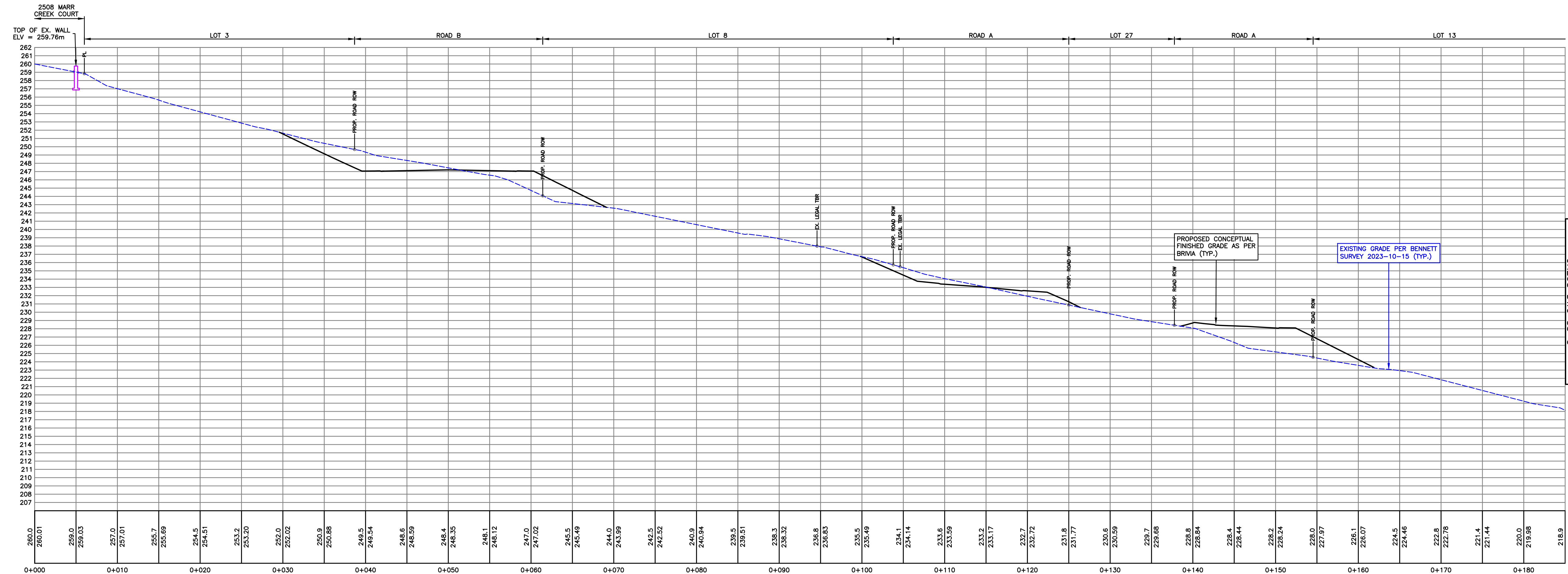
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engineer of record	KBH	scale	1:250
designed by	KBH	file no.	15171
drawn by	DMD	drawing no.	SS-2
date	2024-08-03		

NOT FOR CONSTRUCTION



SITE SECTION C-C' - STA 0+025-0+210
SCALE: 1:250



SITE SECTION D-D' - STA 0+000-0+190
SCALE: 1:250

CONTRACTOR TO VERIFY & LOCATE
EXISTING MAINS & SERVICE
CONNECTIONS & NOTIFY THE
ENGINEER OF ANY DISCREPANCIES
PRIOR TO BEGINNING CONSTRUCTION

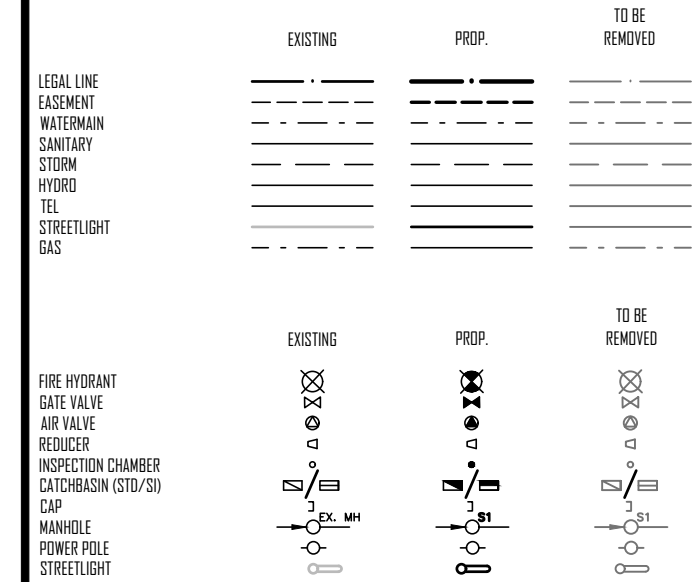
VIS-ENG
CONSULTING LTD.

CIVIL ENGINEERING & PROJECT MANAGEMENT
#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC V7M 1A5
PHONE: 604-278-4402 WEB: VIS-ENG.ca

PERMIT TO PRACTICE # 1005639

SITE MAP

DRAWING LEGEND



approve



2025-02-24

client

BRIVIA GROUP

project

WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

title	
-------	--

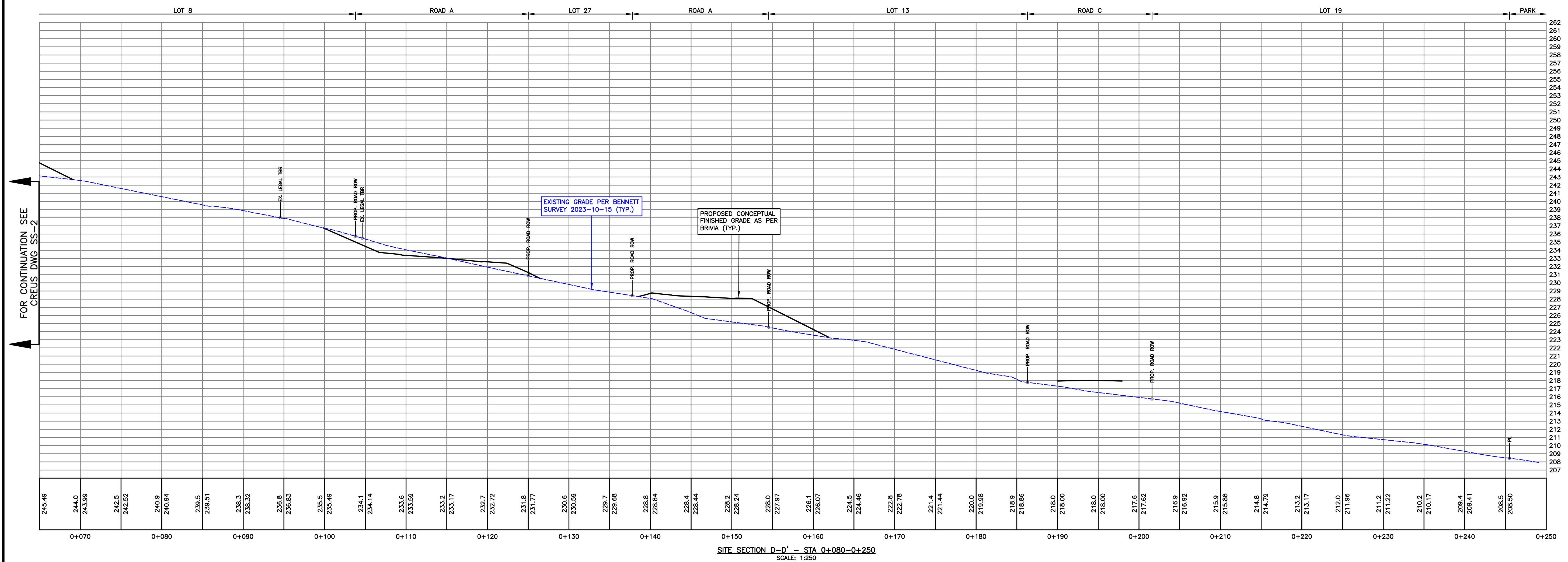
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8	24-12-17	REISSUED FOR DP		CLW
7	24-11-14	ISSUED FOR DP		CLW
6	24-9-06	ISSUED FOR CLIENT REVIEW		CMD
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NO.	(y/m/d)	REVISION		CHK'D

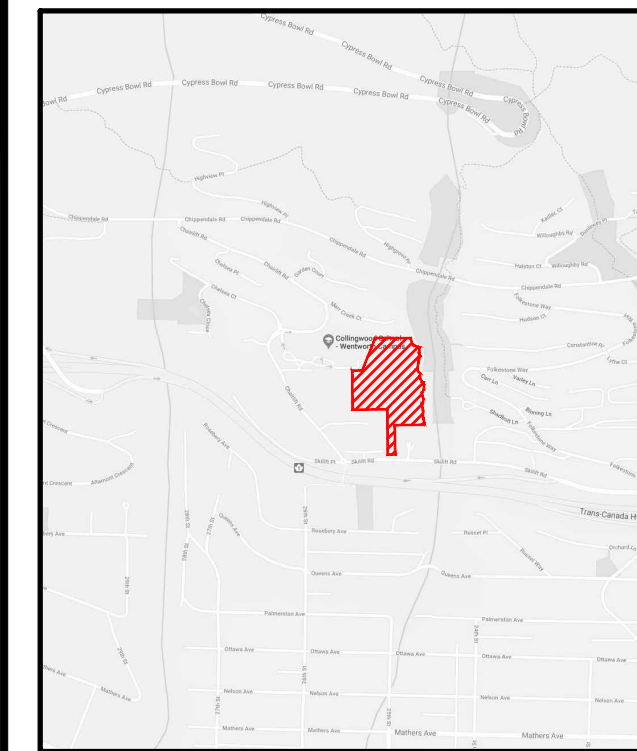
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engineer of record	KSH	scales	1:250
designed by		hor:	vert:
	KSH	file no.	15171
drawn by	END	drawing no.	SS-3
date			

NOT FOR CONSTRUCTION



PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PROP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
EXISTING FREE HYDRANT	---	---	---
EXISTING GATE VALVE	---	---	---
EXISTING AIR VALVE	---	---	---
EXISTING REDUCER	---	---	---
EXISTING INSPECTION CHAMBER	---	---	---
EXISTING CATCH BASIN (ST/SD)	---	---	---
EXISTING SUMP	---	---	---
EXISTING MANHOLE	---	---	---
EXISTING POWER POLE	---	---	---
EXISTING STREETLIGHT	---	---	---



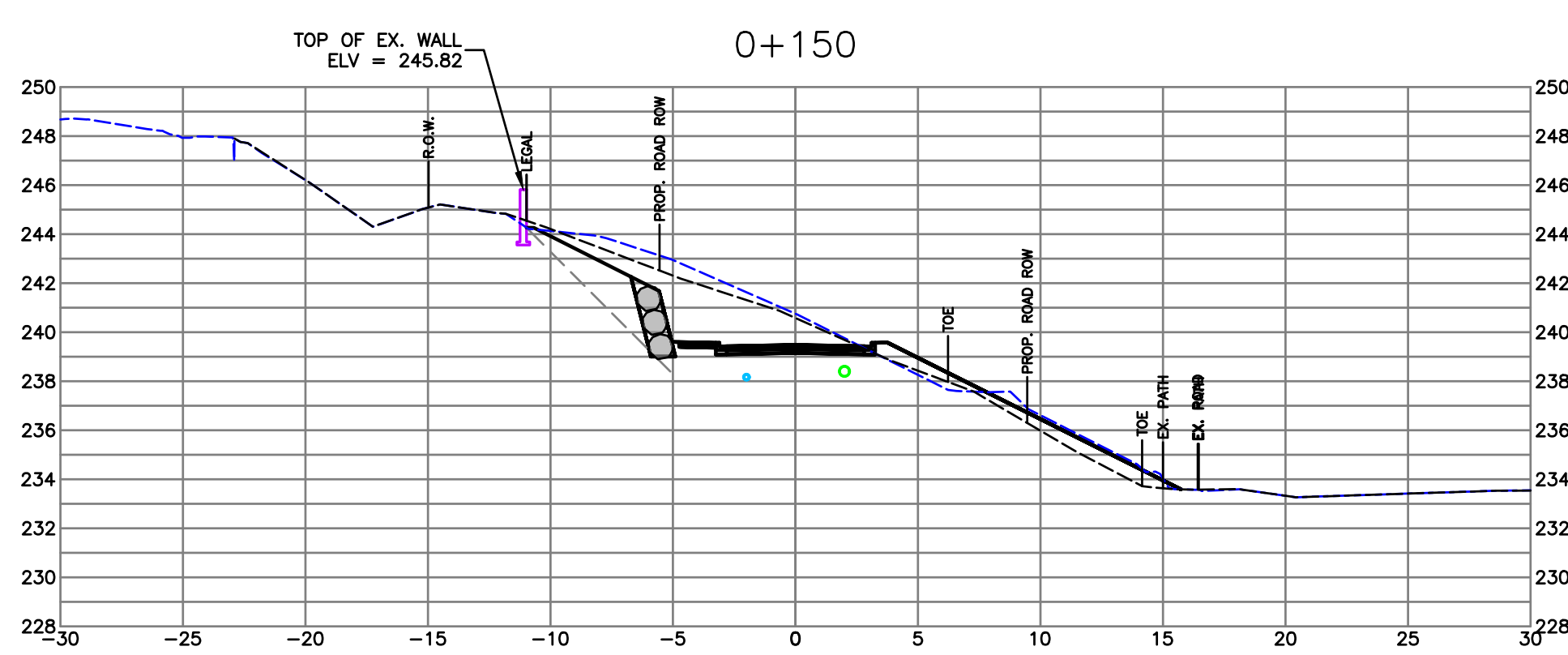
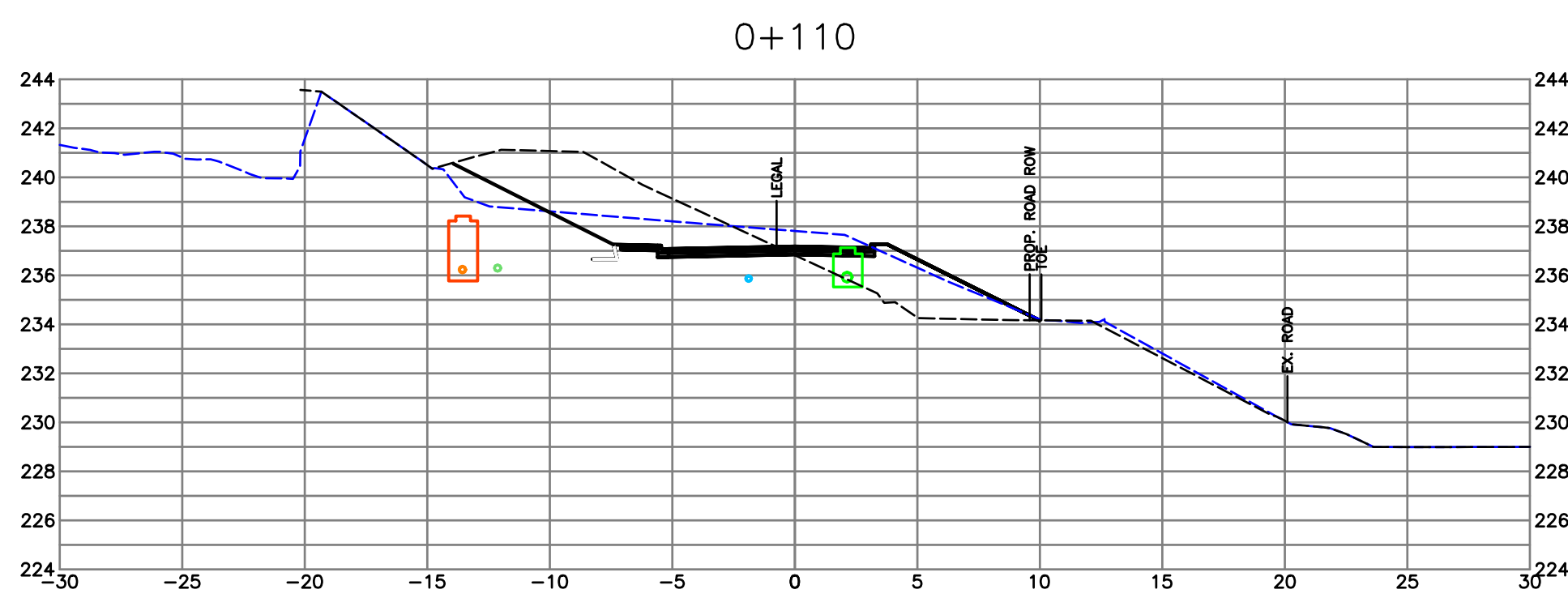
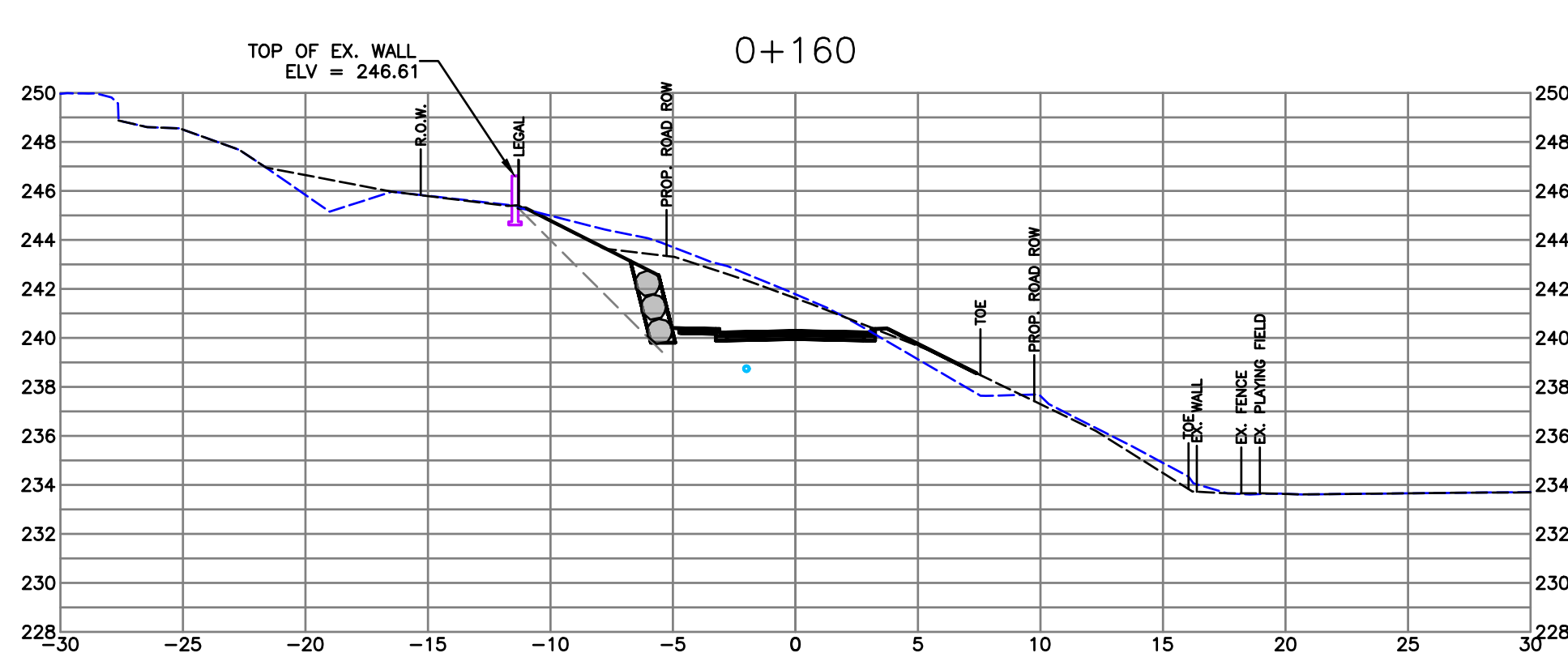
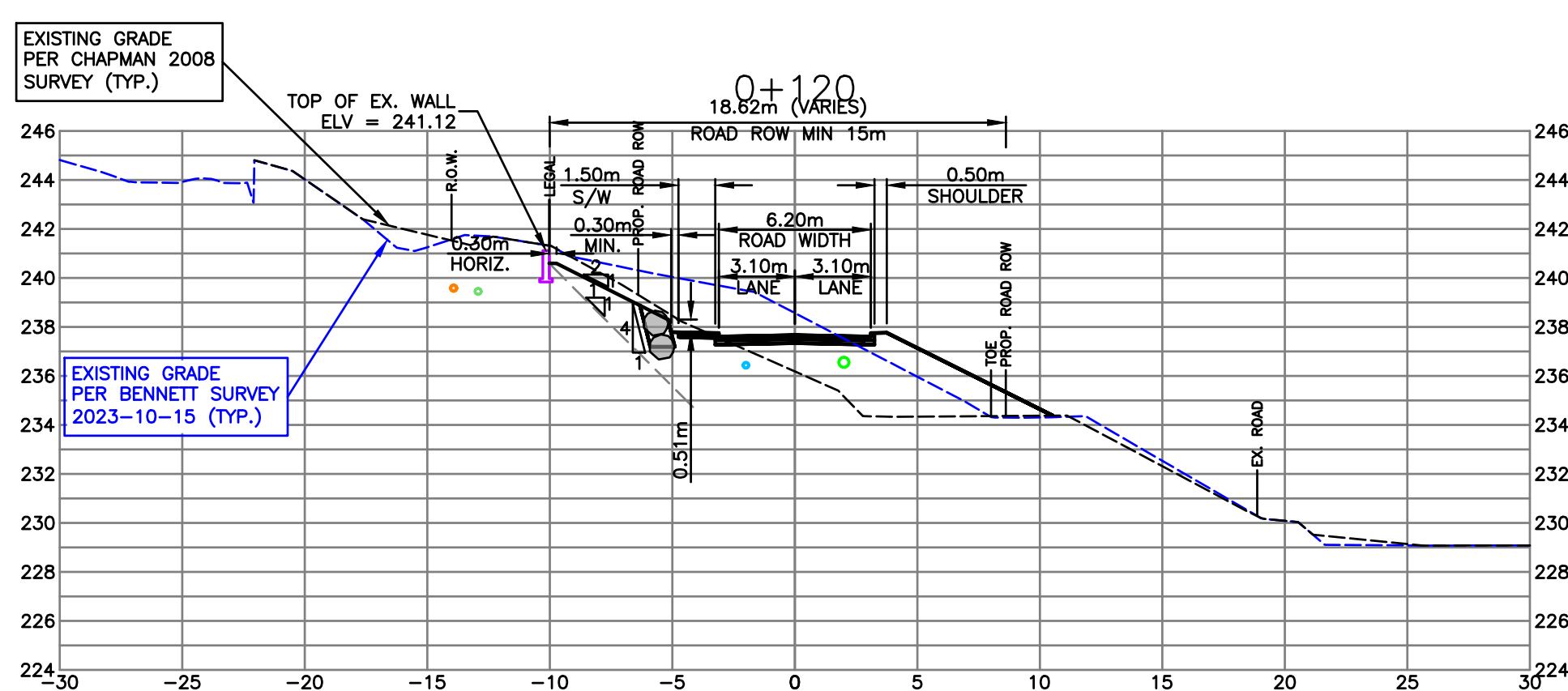
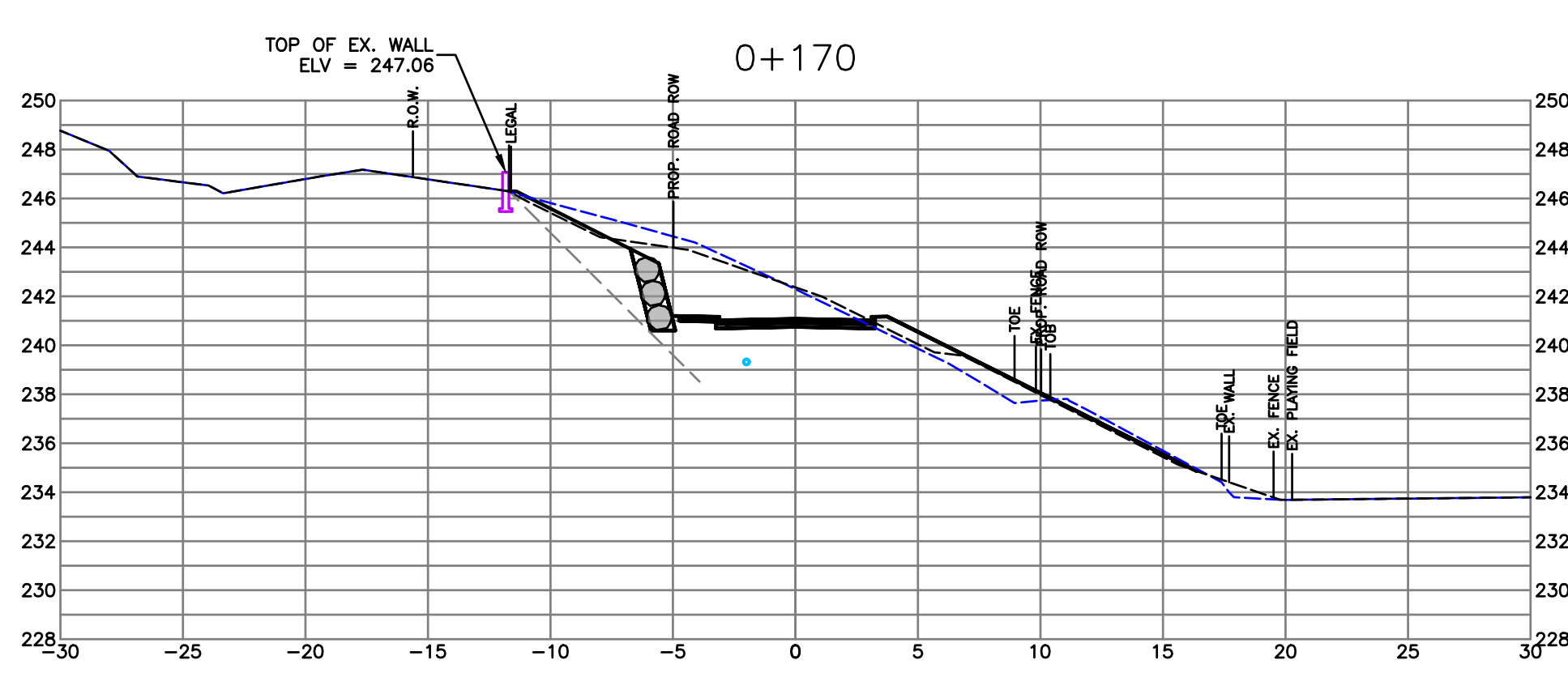
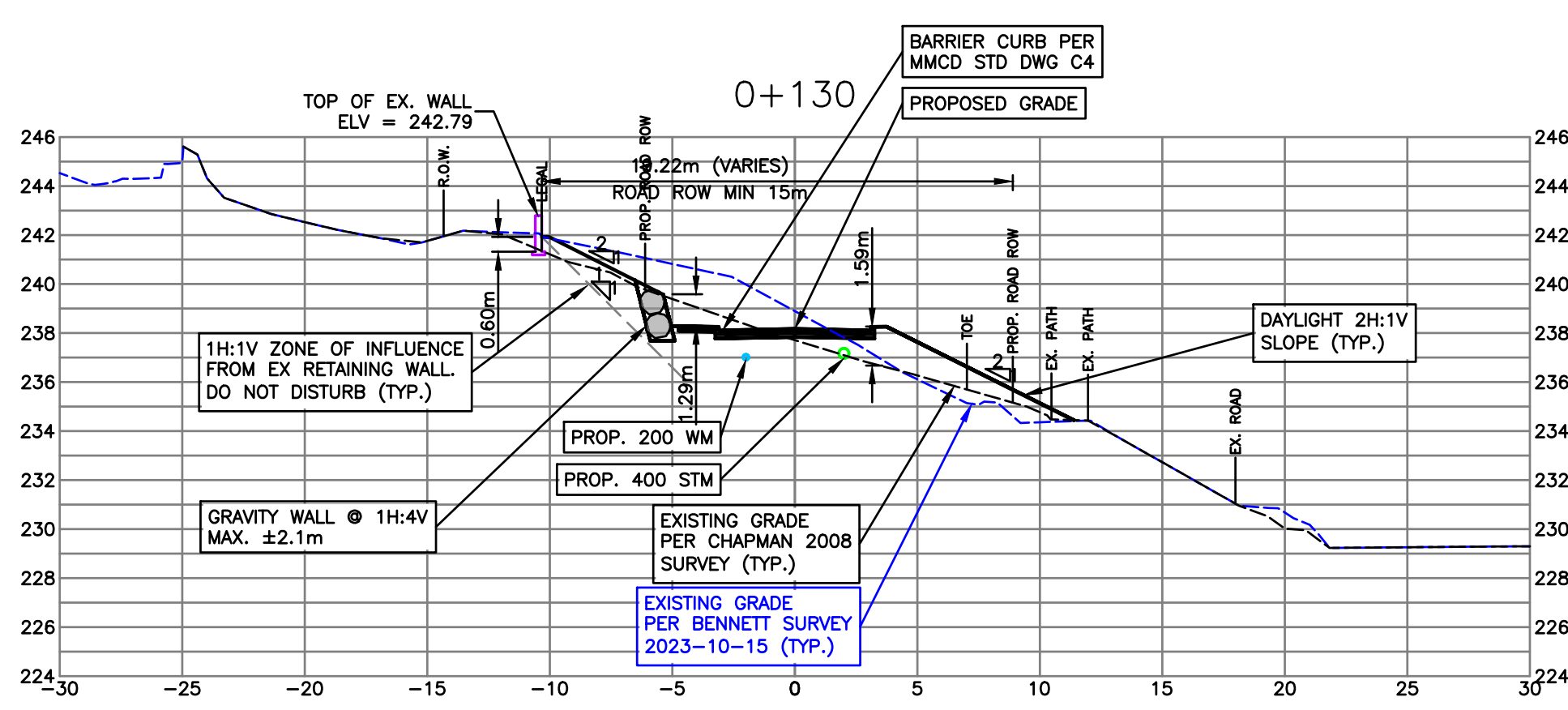
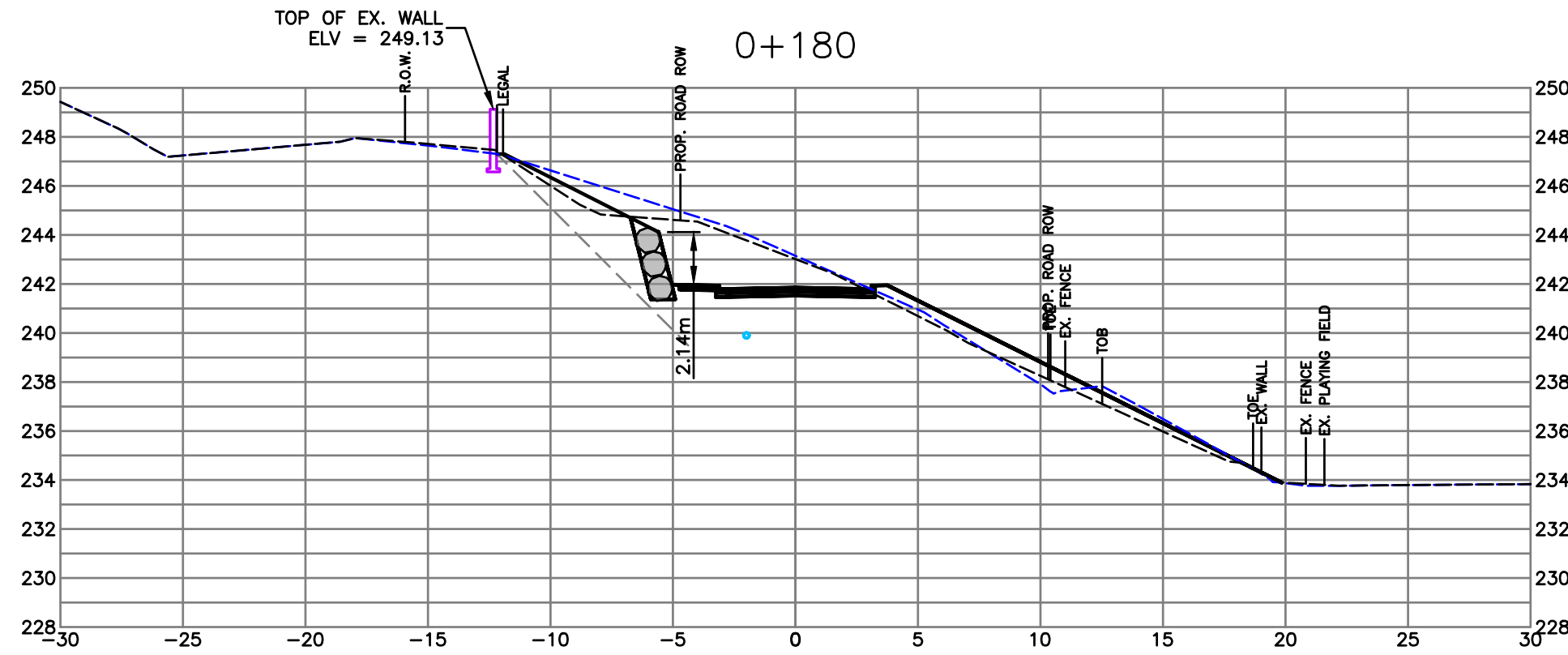
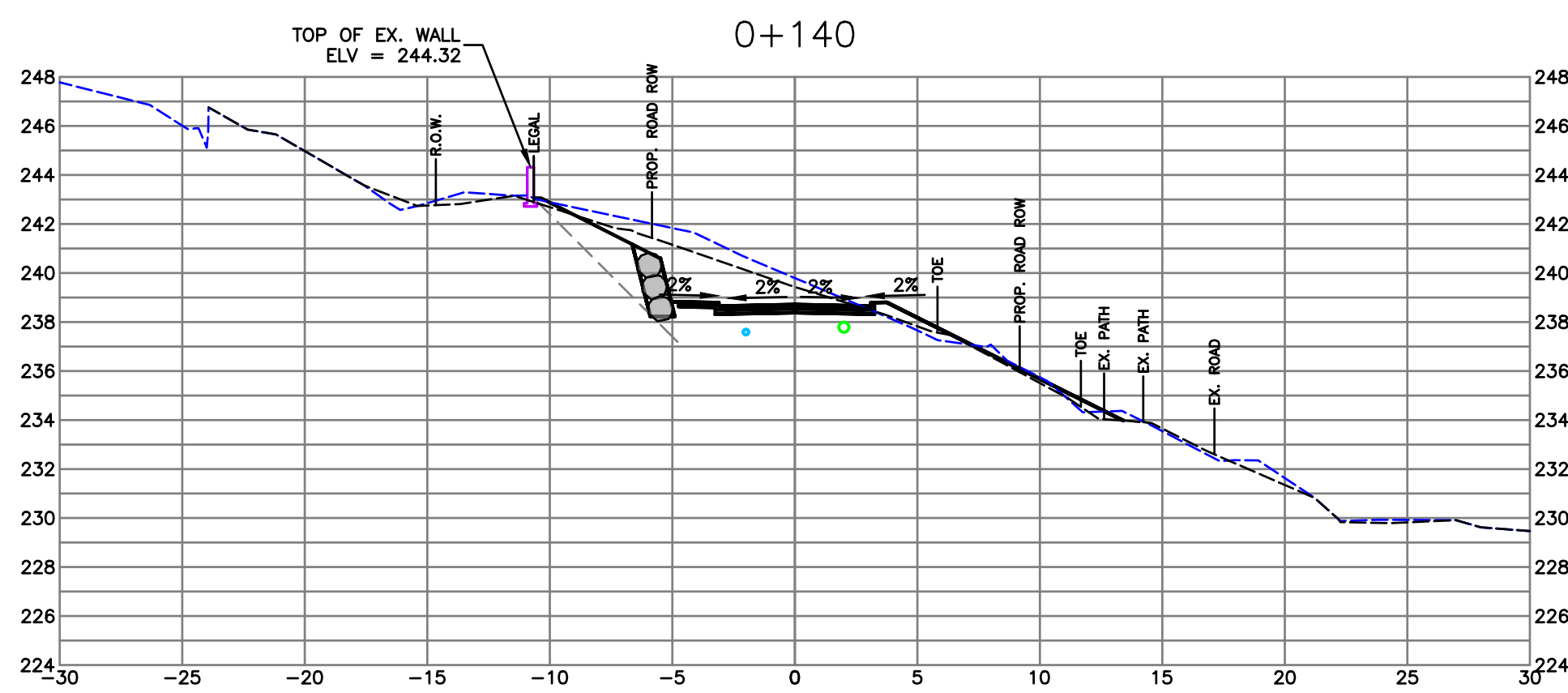
client
BRIVIA GROUP

project
**WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC**

revision
**CROSS SECTIONS
ROAD A**

no.	date	revision	by
1	25-02-03	REISSUED FOR DP	CLW
2	25-09-03	REISSUED FOR DP	CLW
3	24-02-08	REISSUED FOR DP	CLW
4	24-12-07	REISSUED FOR DP	CLW
5	24-06-14	ISSUED FOR DP	CLW
6	24-08-05	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMV COMMENTS	DND

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engineer of record	KBH	13
designed by	KBH	scale
drawn by	LJW	hor: 1:250
date	2024-10-03	vert: 1:50
file no.	15171	
drawing no.	XS-1a	



NOT FOR CONSTRUCTION

RAWING LEGEND

approved

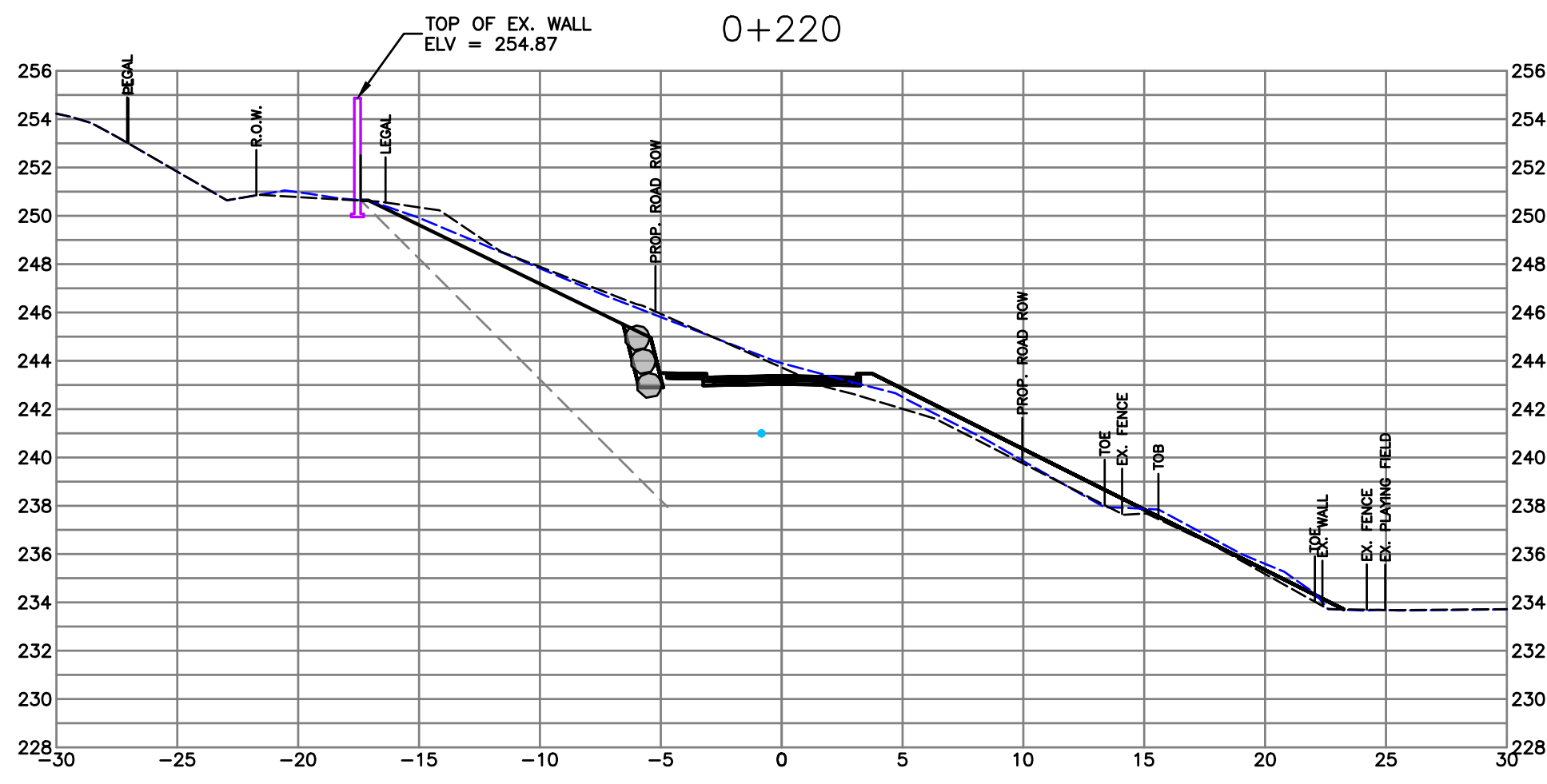


BRIVIA GROUP

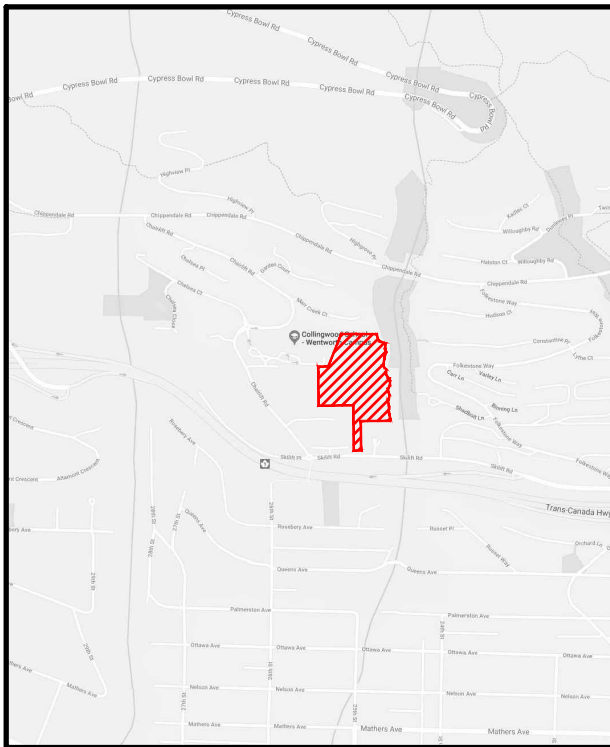
CROSS SECTIONS
ROAD A

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Engineer of record	KSH	scales	1250	151
Designed by	KSH	hor:		vert:
Drawn by	TJV	file no.	15171	
Date	2021-10-03	drawing no.	XS-2a	



PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
FREE HYDRANT	○	○	○
GATE VALVE	○	○	○
REDUCER	○	○	○
INSPECTION CHAMBER	○	○	○
CATCH BASIN (ST/SD)	○	○	○
MANHOLE	○	○	○
POWER POLE	○	○	○
STREETLIGHT	○	○	○



client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

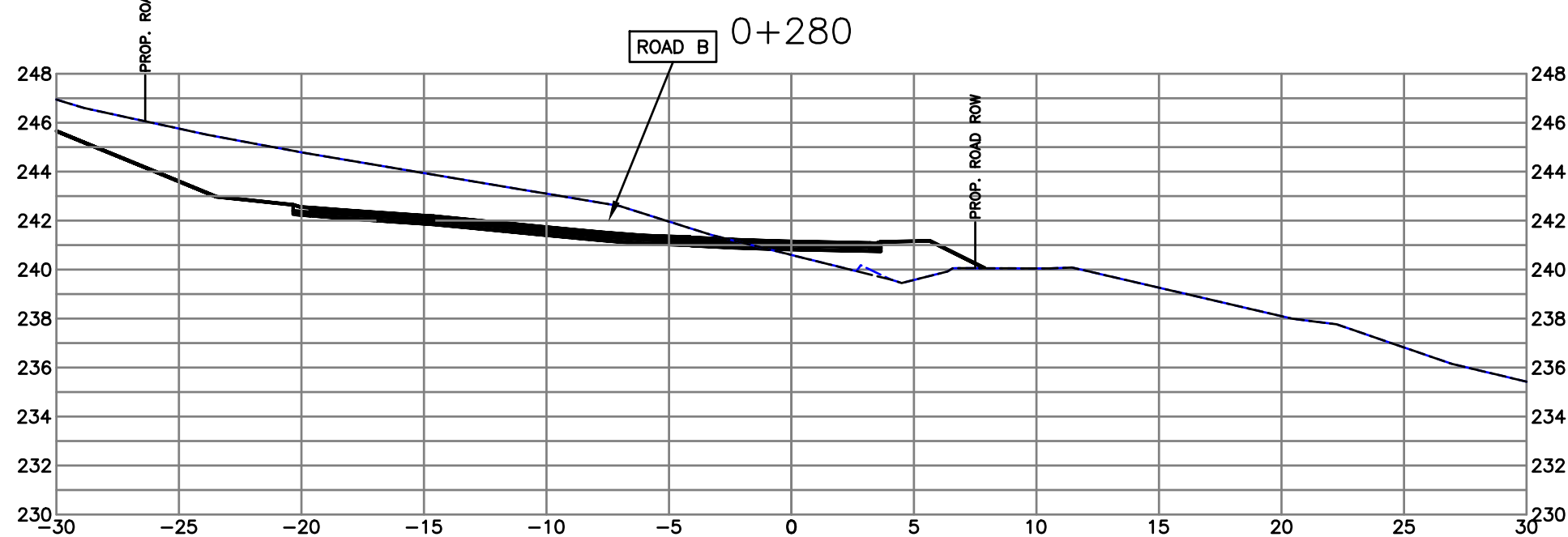
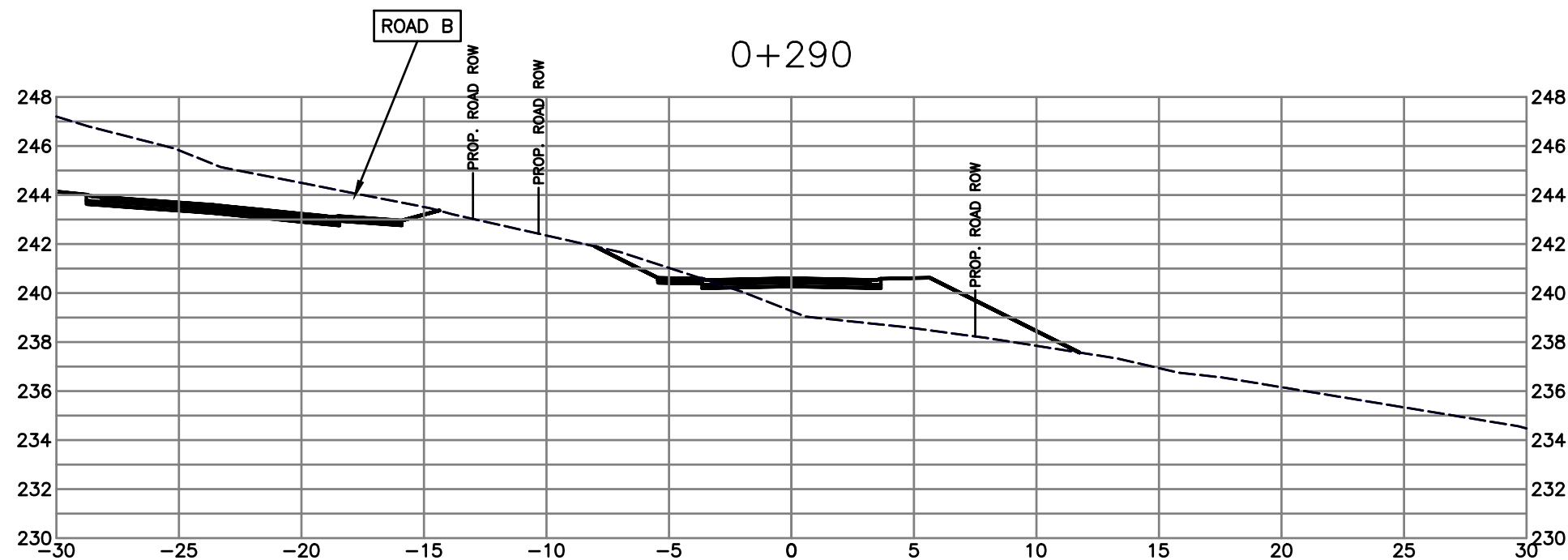
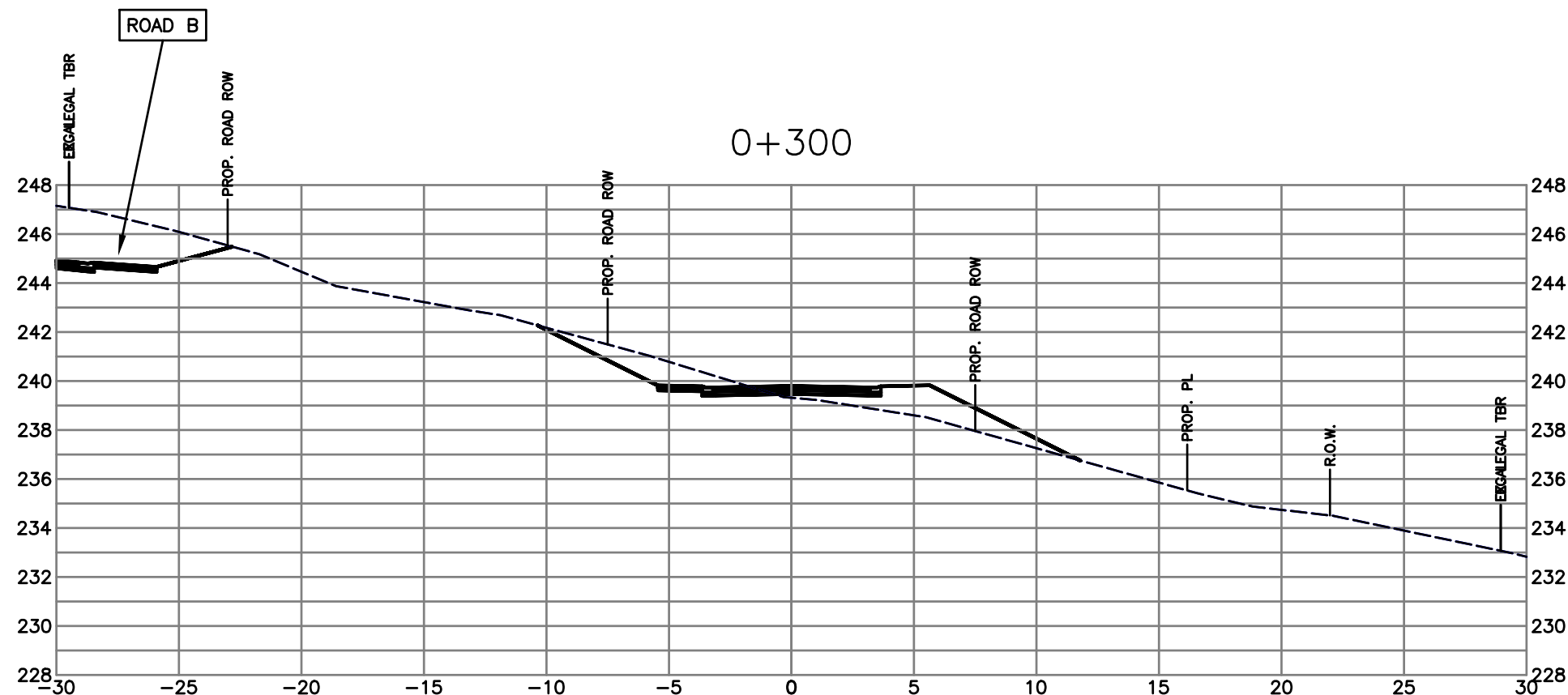
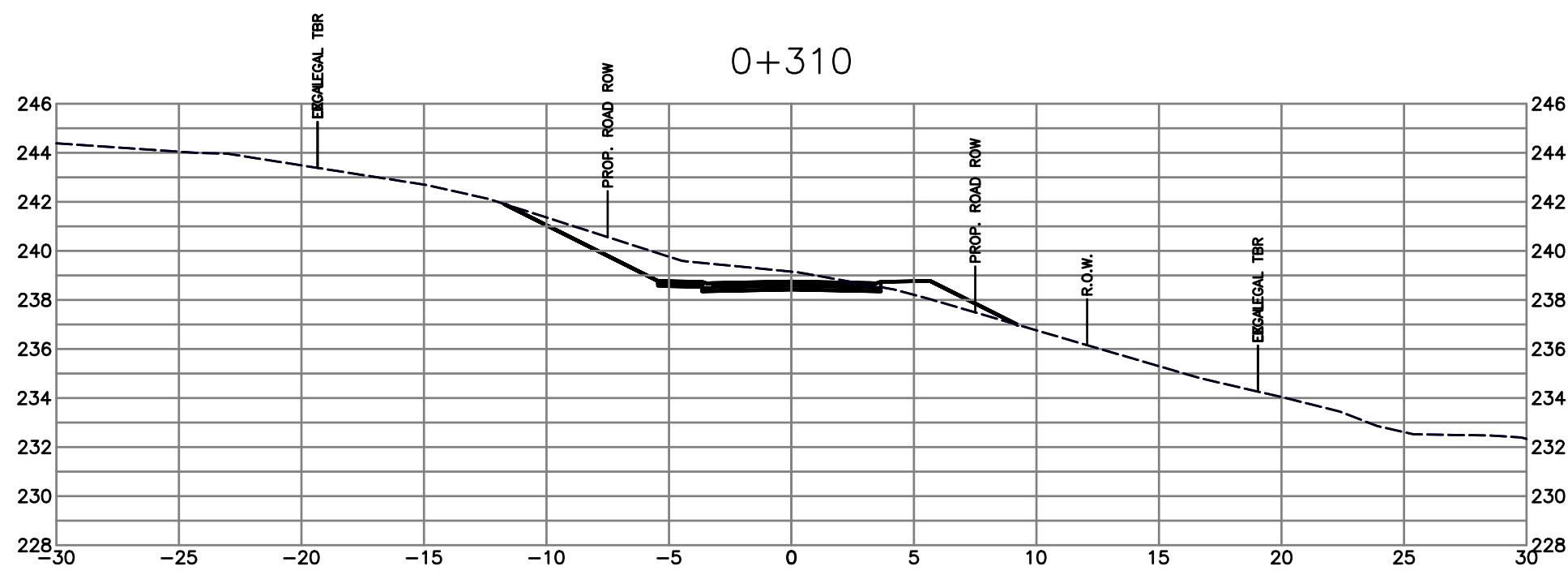
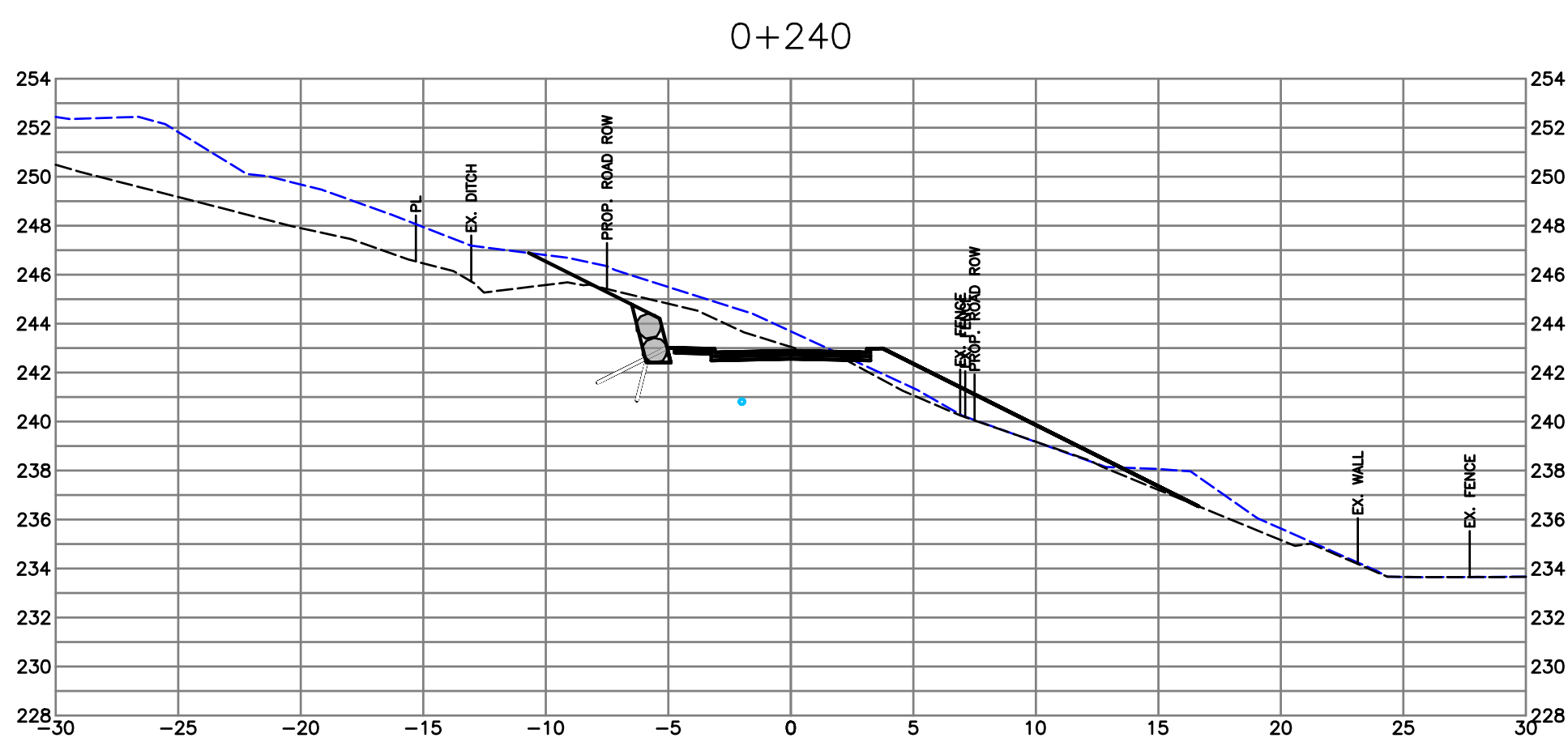
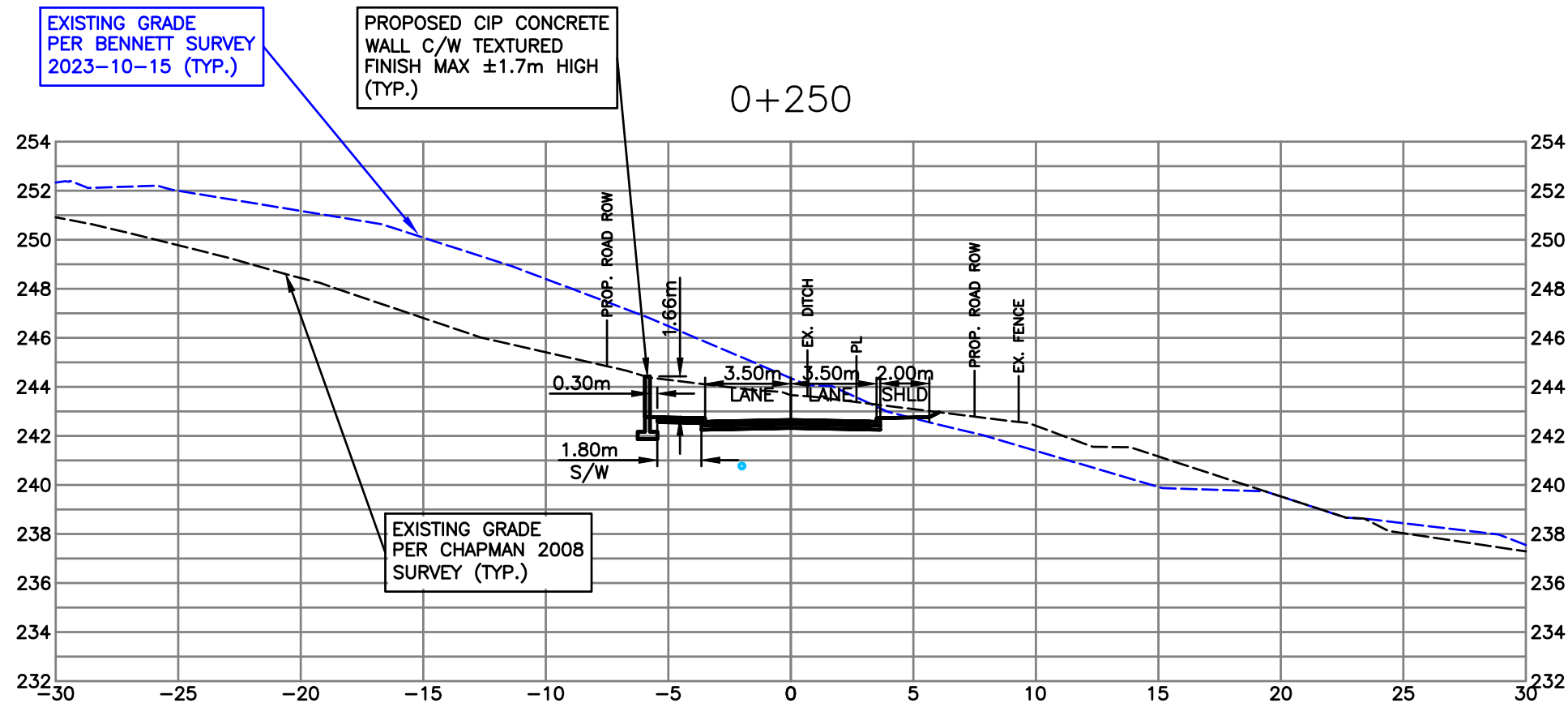
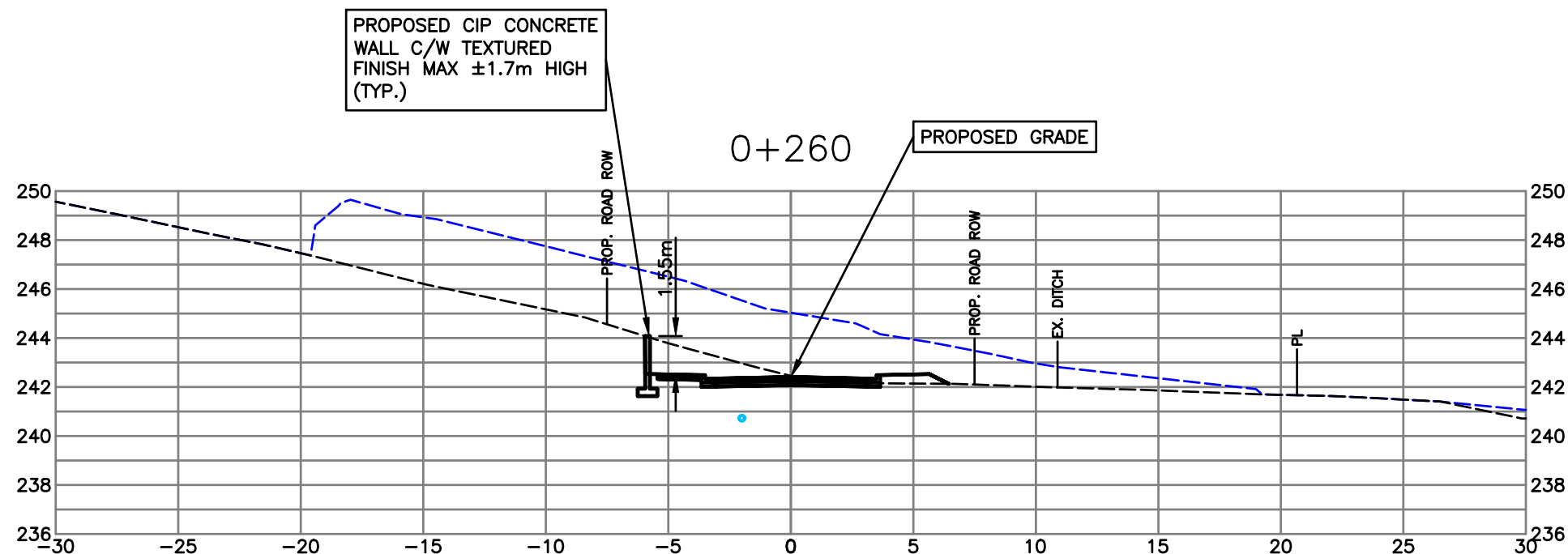
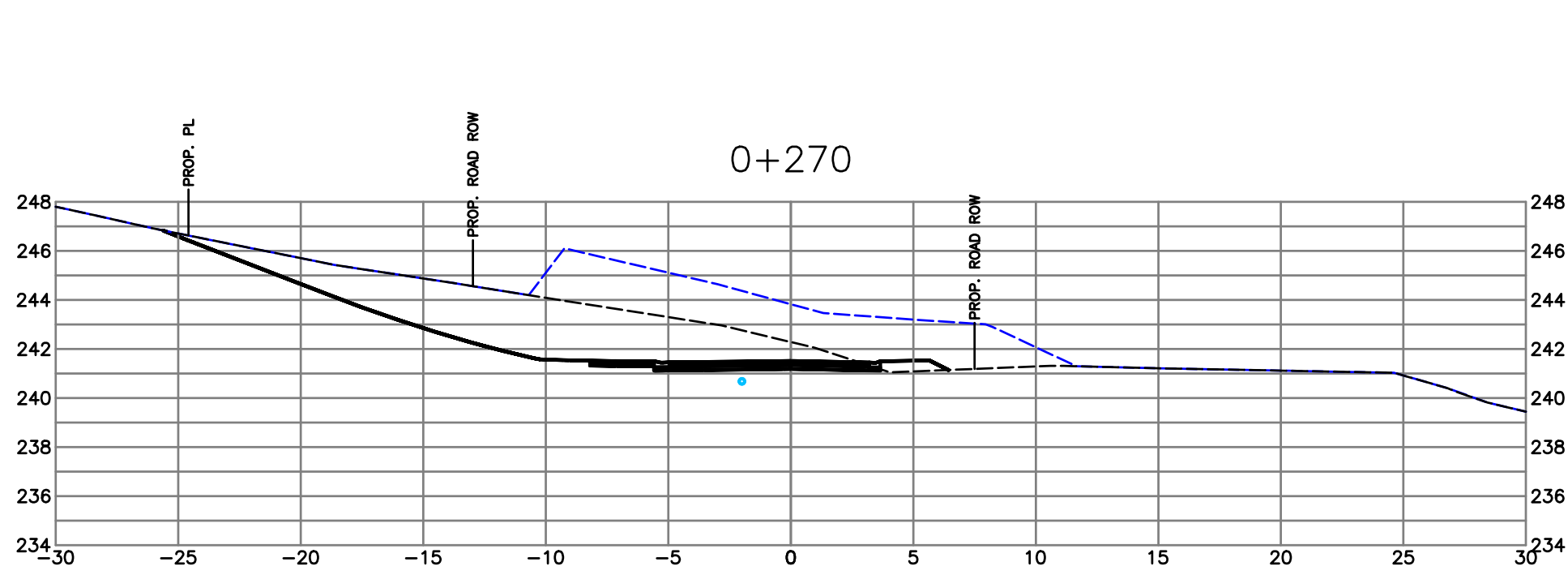
15%
CROSS SECTIONS
ROAD A

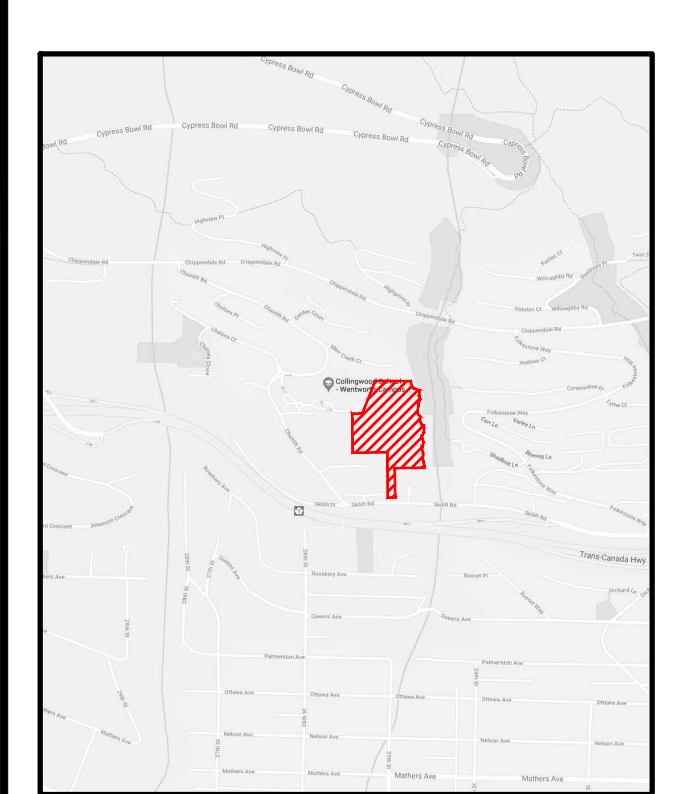
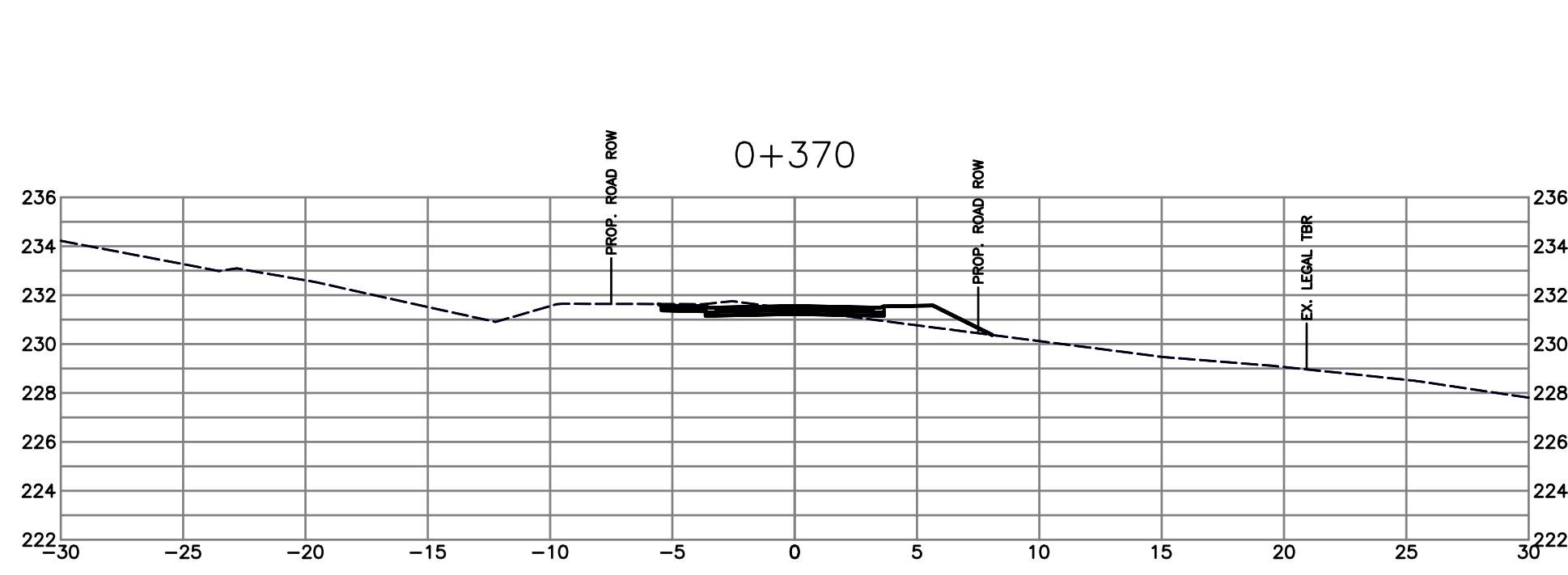
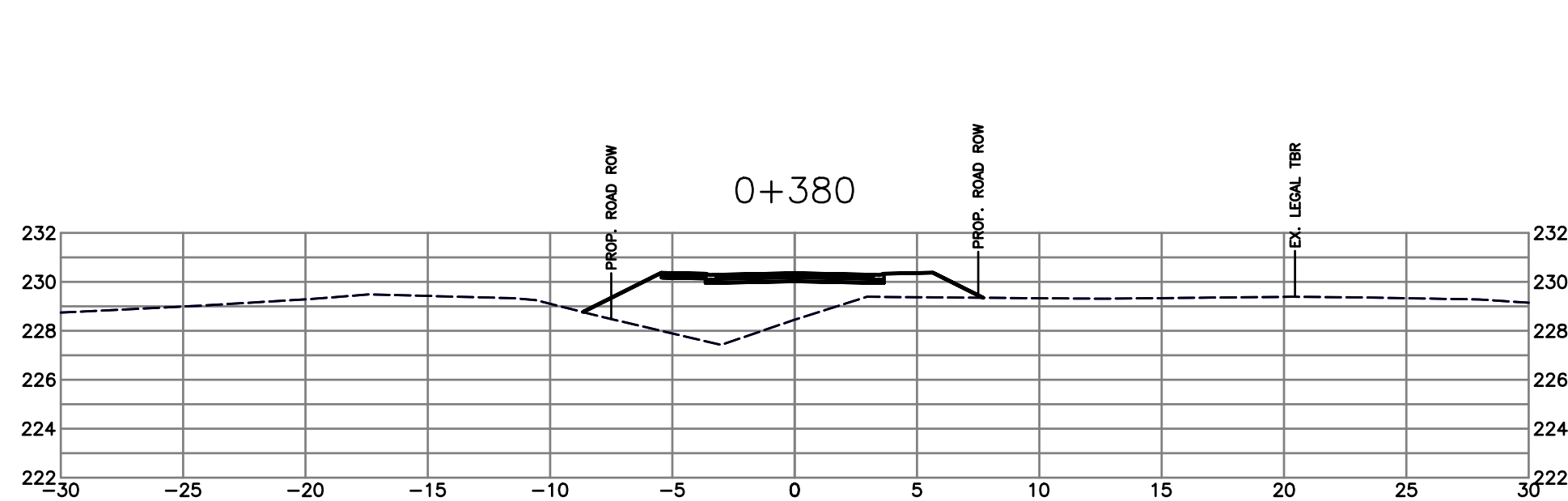
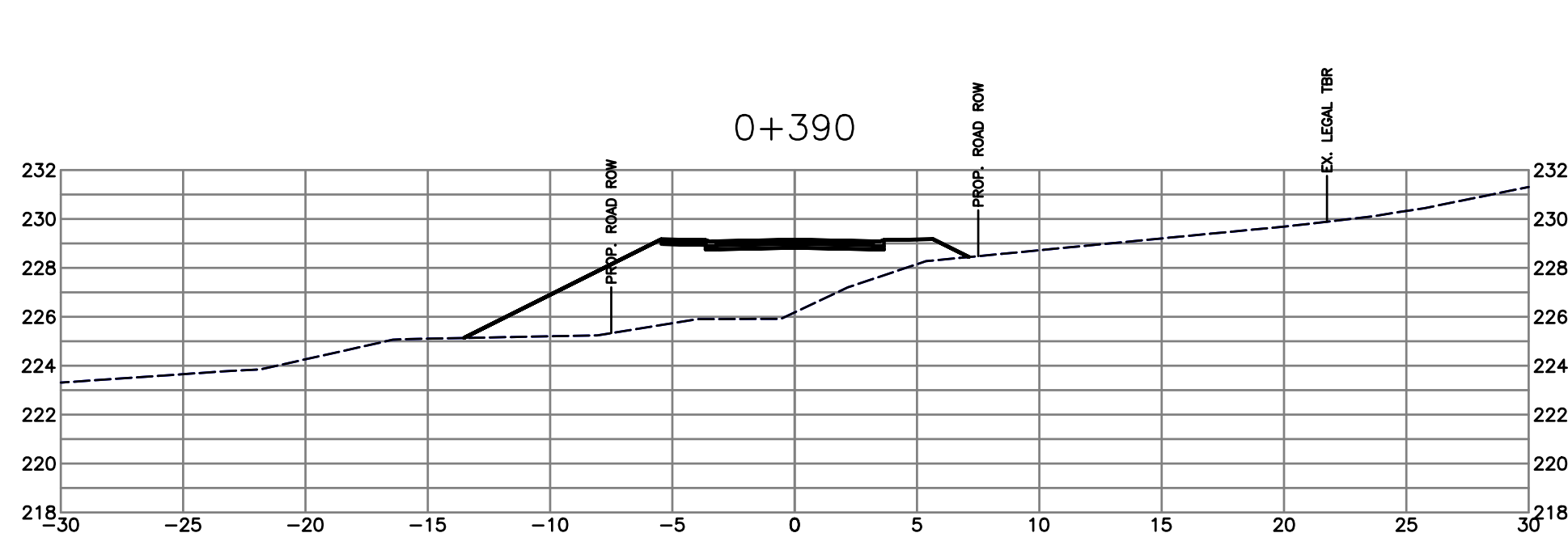
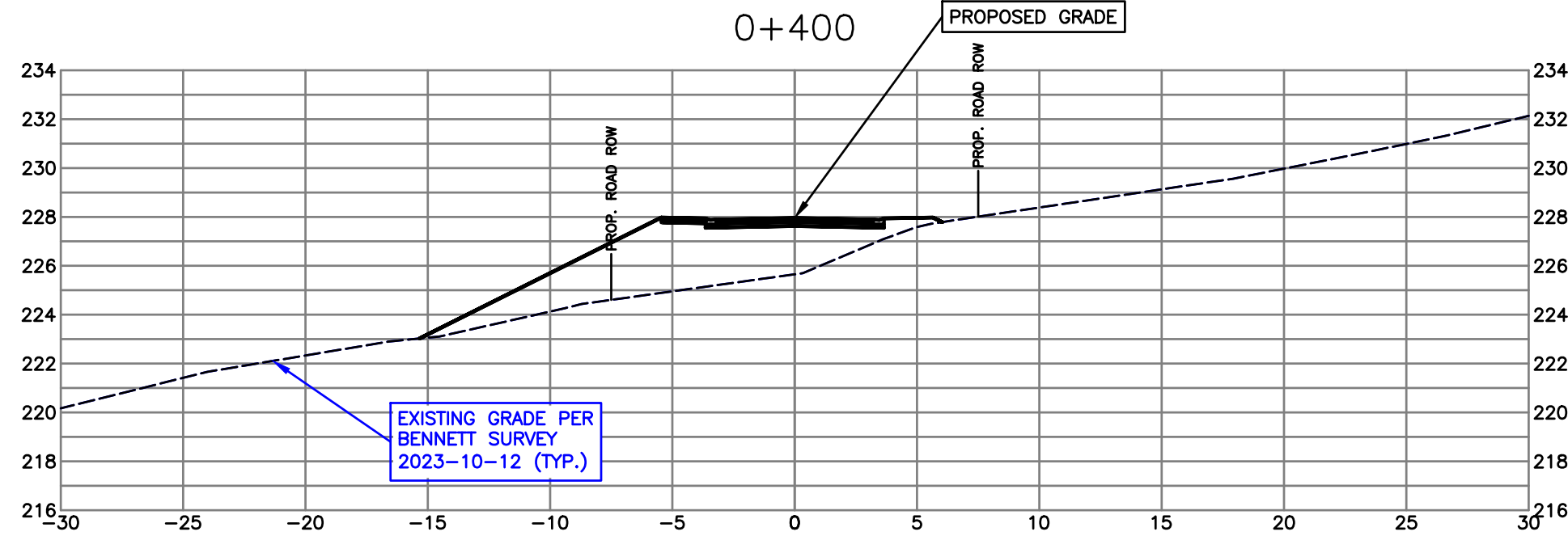
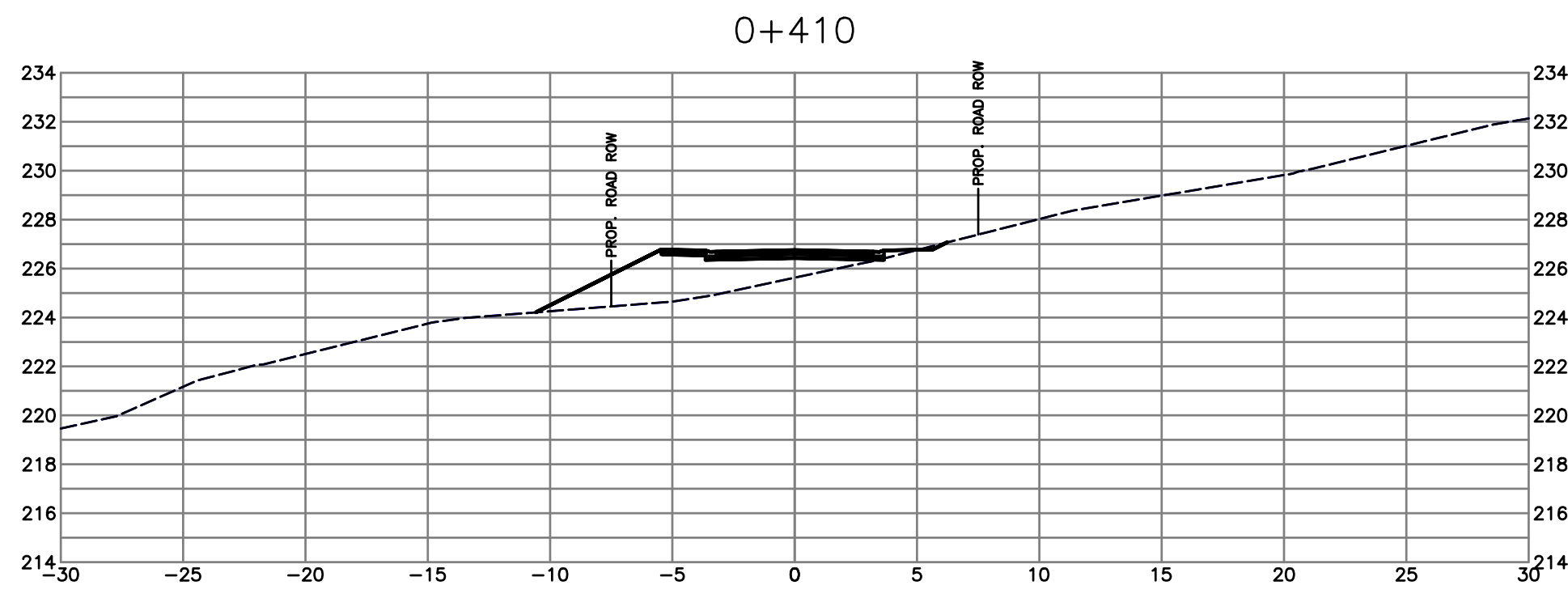
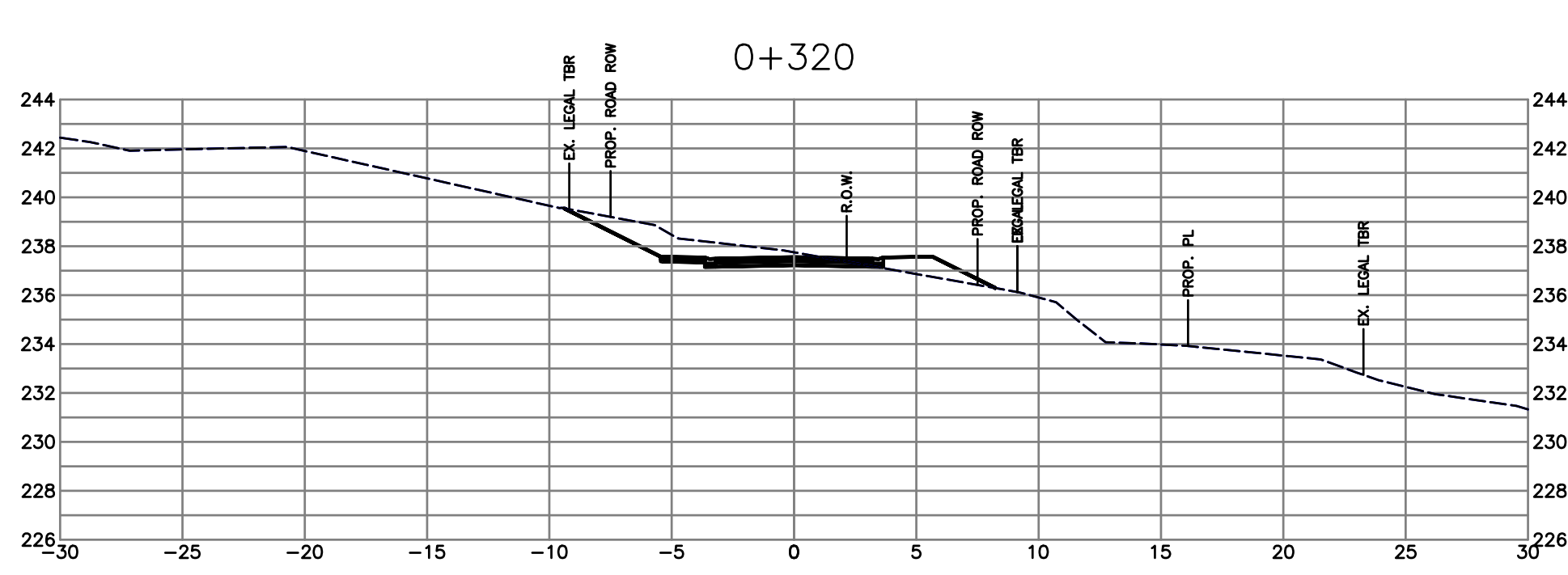
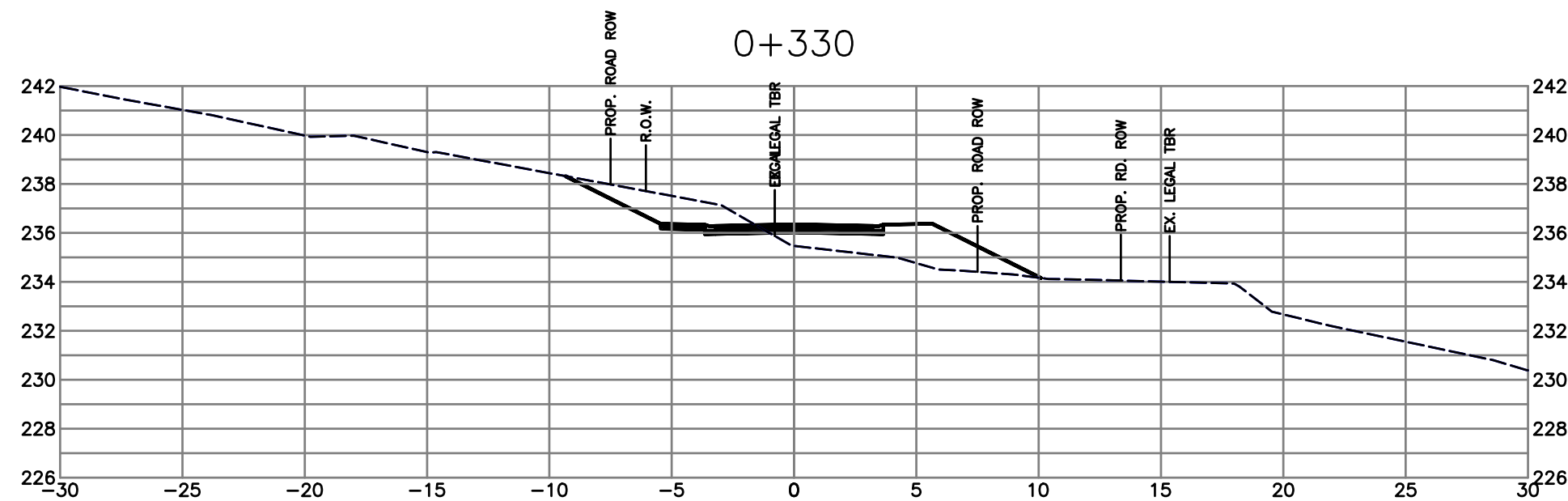
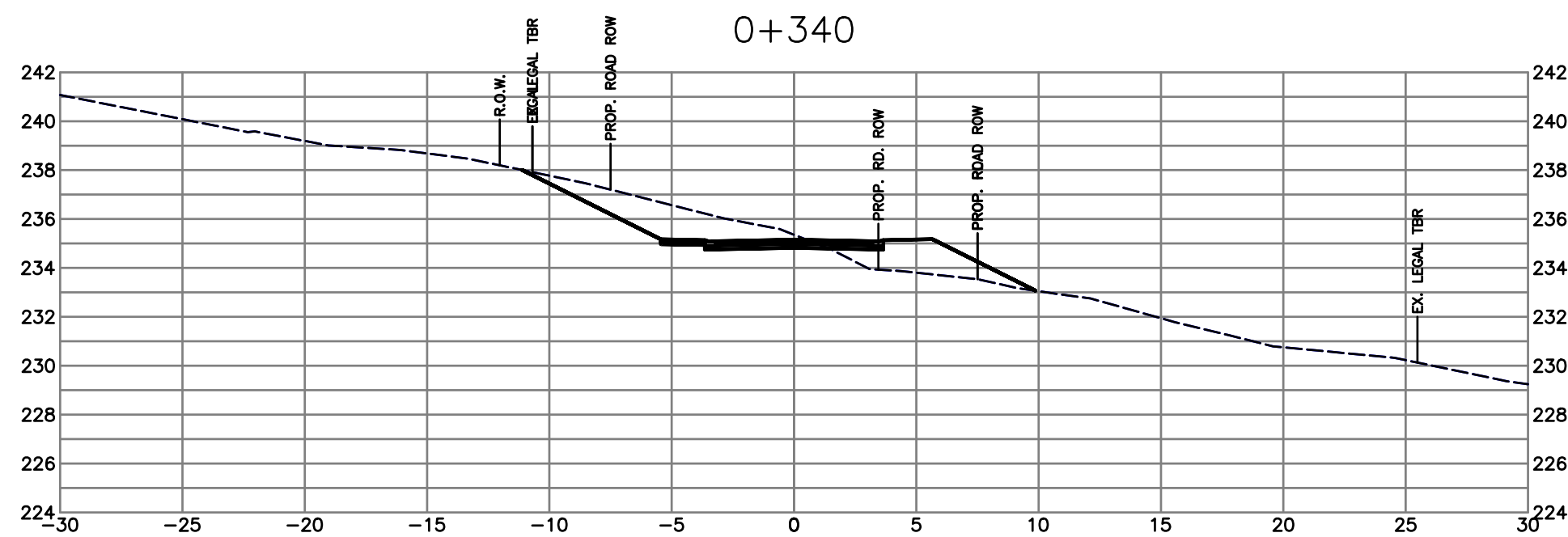
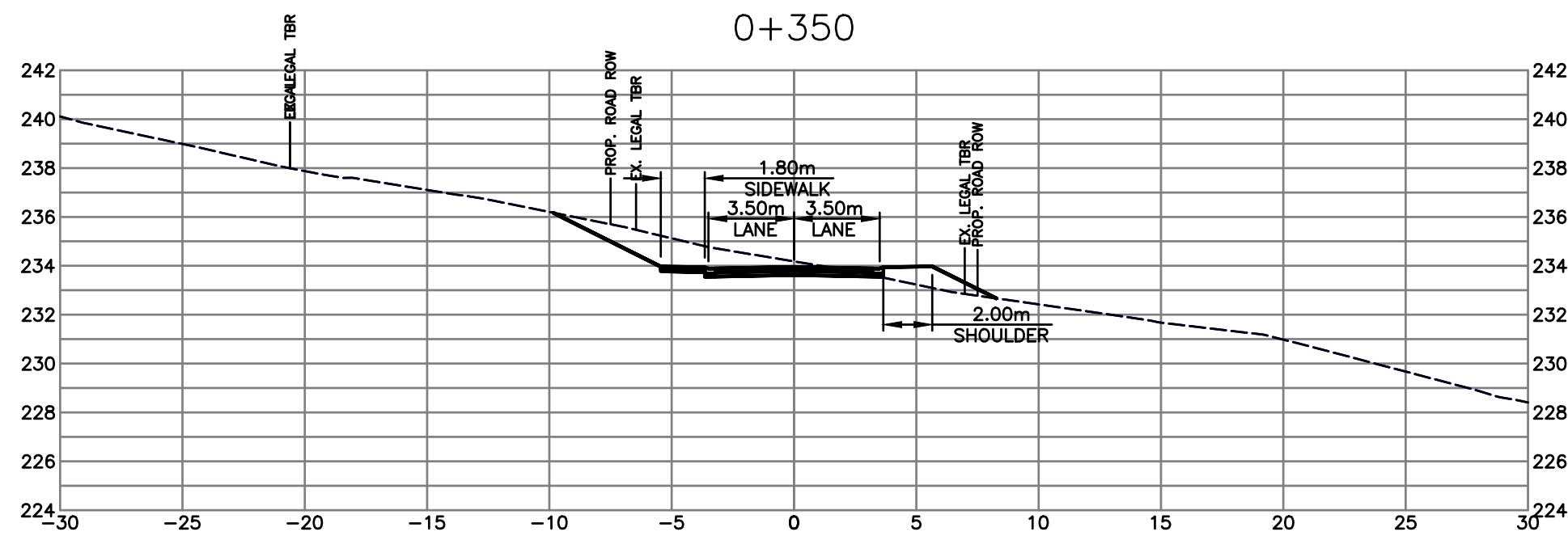
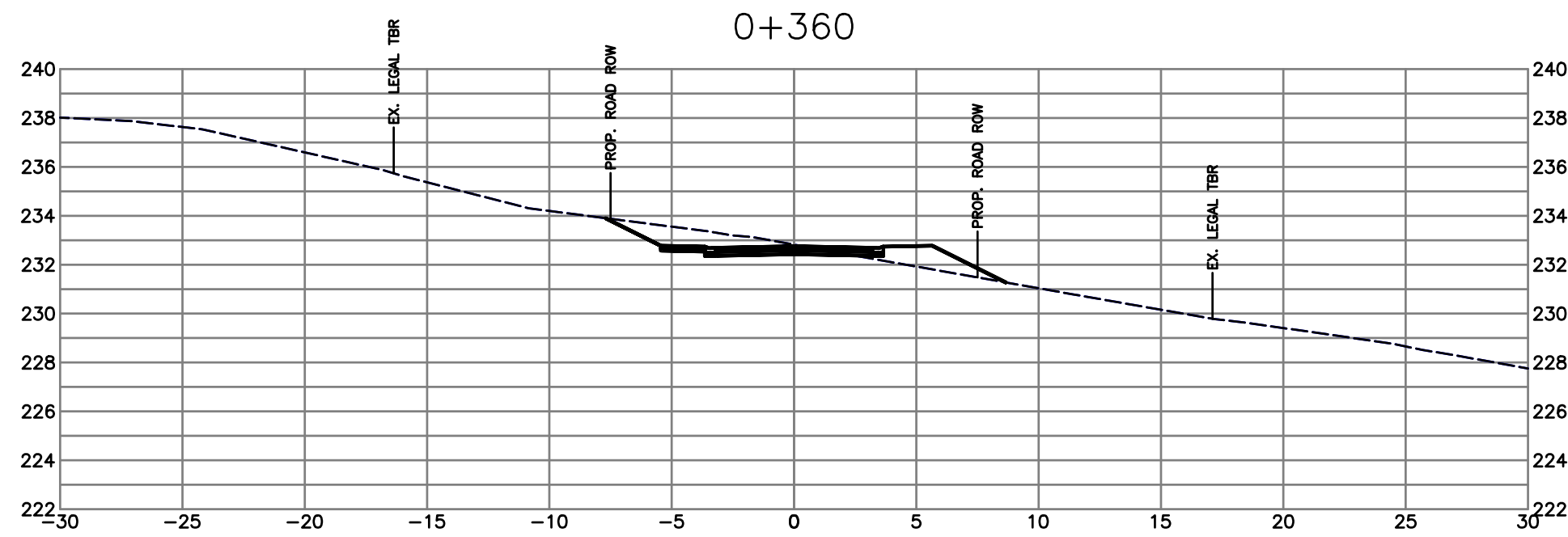
no.	date	revision	by
13	25-02-03	REISSUED FOR DP	CLW
12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-08-05	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMY COMMENTS	DMD

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engineer of record	KBH	scale	1:250	1:50
designed by	KBH	file no.	15171	
drawn by	CLW	drawing no.	XS-3a	
date	2024-10-03			

NOT FOR CONSTRUCTION

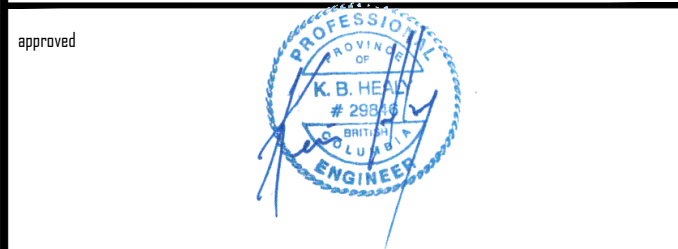




SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
EXISTING HYDRANT	---	---	---
EXISTING GATE VALVE	---	---	---
EXISTING AIR VALVE	---	---	---
EXISTING REDUCER	---	---	---
EXISTING INSPECTION CHAMBER	---	---	---
EXISTING CATCHBASIN (STB/SD)	---	---	---
EXISTING SUMP	---	---	---
EXISTING MANHOLE	---	---	---
EXISTING POWER POLE	---	---	---
EXISTING STREETLIGHT	---	---	---



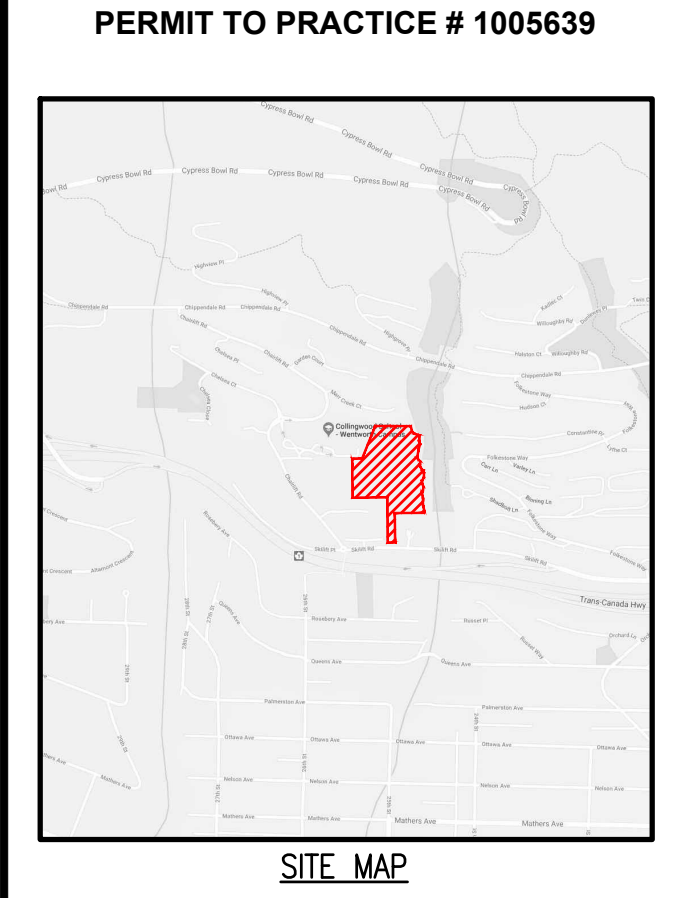
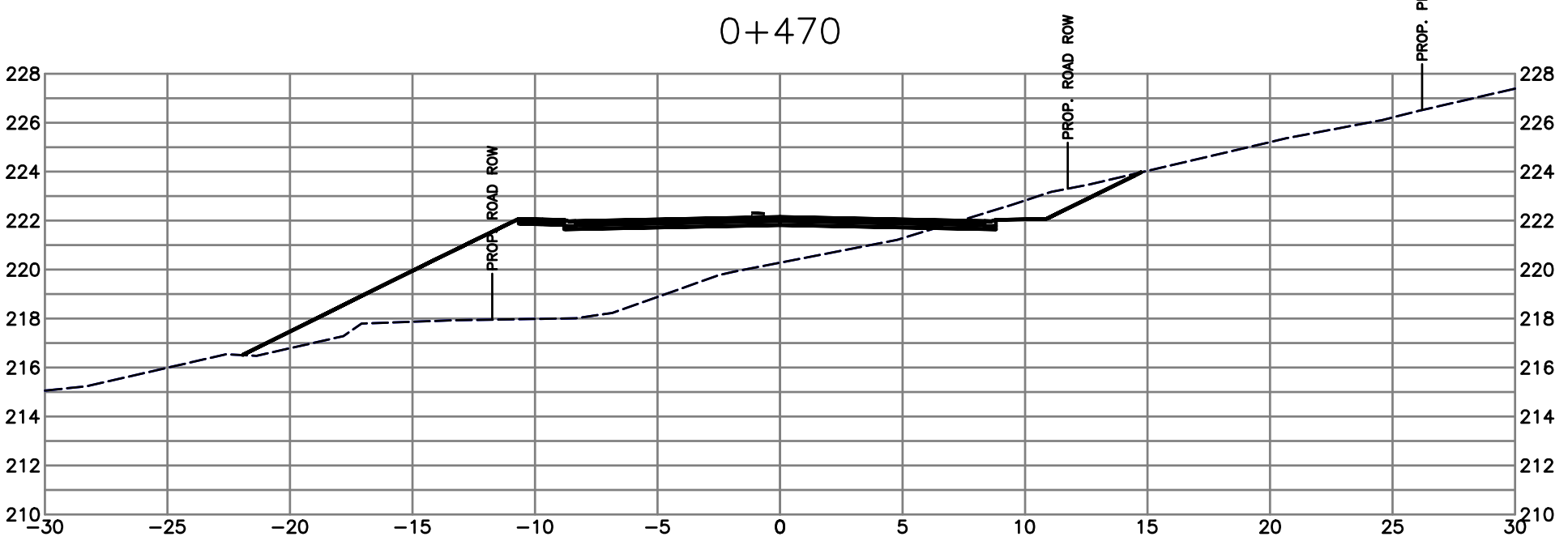
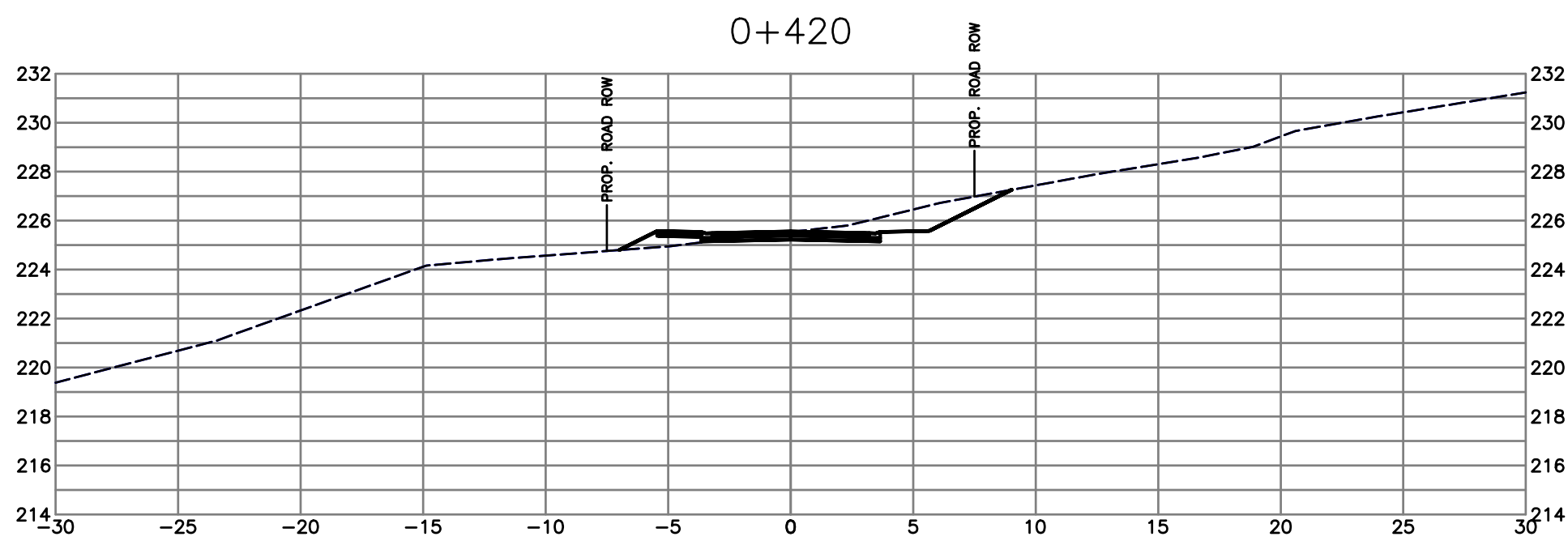
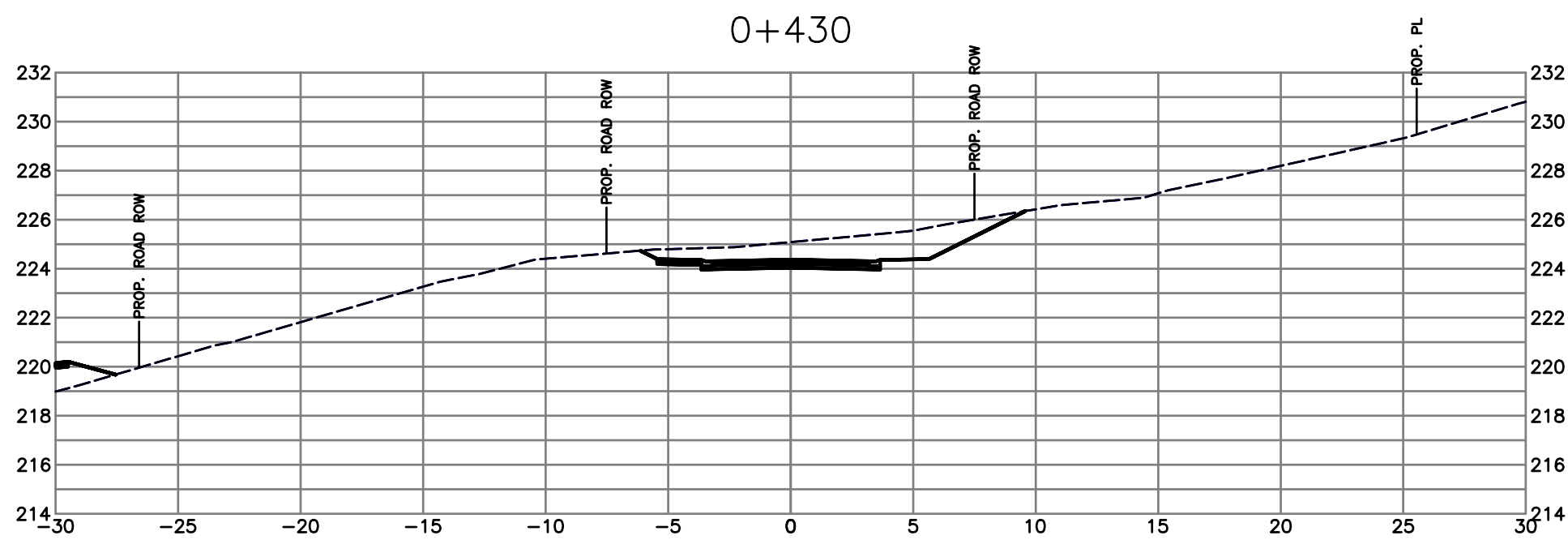
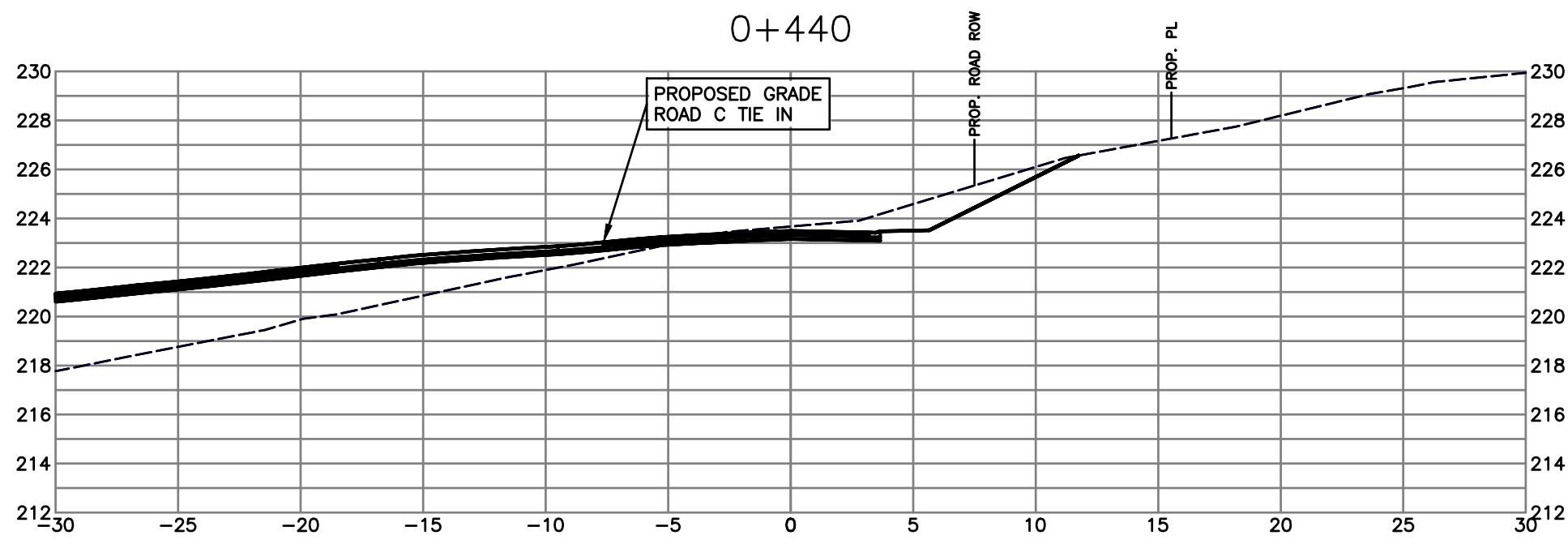
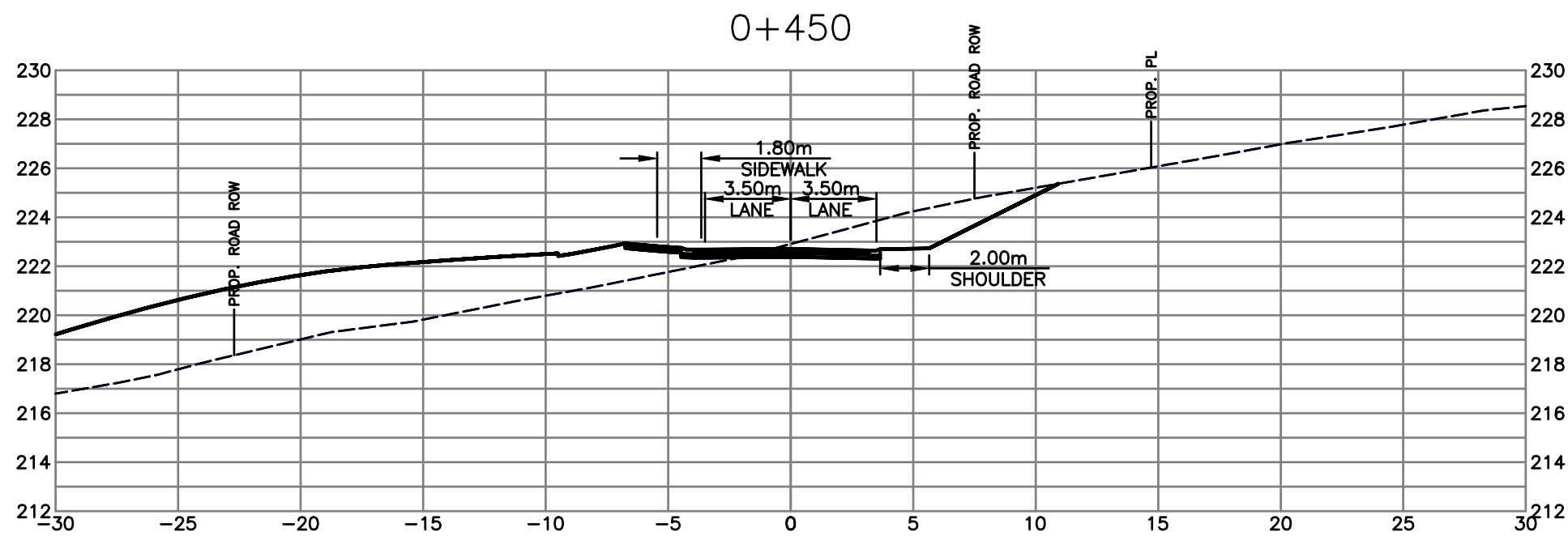
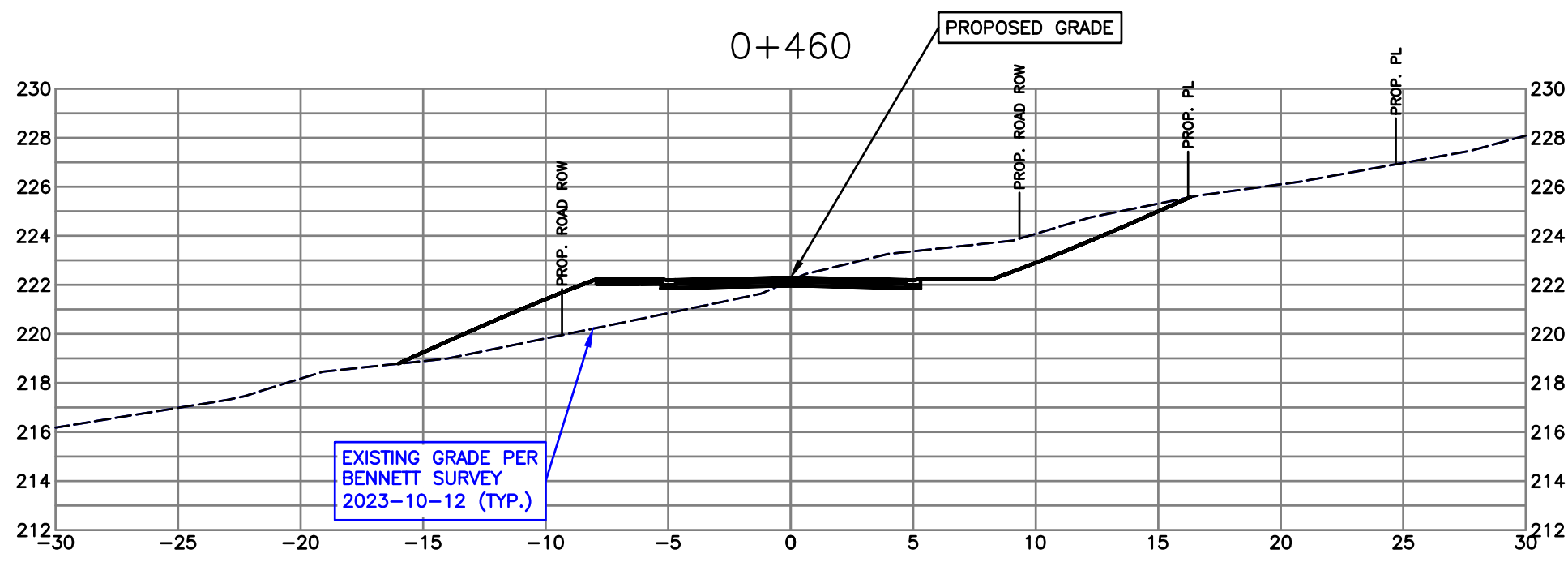
client
BRIVIA GROUP

project
**WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC**

title
**CROSS SECTIONS
ROAD A**

no.	q/m/d	revision	date
13	25-02-03	REISSUED FOR DP	CLW
12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-06-05	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMY COMMENTS	DMD

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engineer of record KBI	scale hor: 1:250 vert: 1:50	
designed by KBI	file no. 15171	
drawn by LJV	drawing no. XS-4a	
date 2023-10-03		



DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
EXISTING FREE HYDRANT	---	---	---
EXISTING GATE VALVE	---	---	---
EXISTING JET VALVE	---	---	---
EXISTING REDUCER	---	---	---
EXISTING INSPECTION CHAMBER	---	---	---
EXISTING CATCHBASIN (ST/SD)	---	---	---
EXISTING DWP	---	---	---
EXISTING MANHOLE	---	---	---
EXISTING POWER POLE	---	---	---
EXISTING STREETLIGHT	---	---	---

approved

2025-02-24

client

BRIVIA GROUP

project

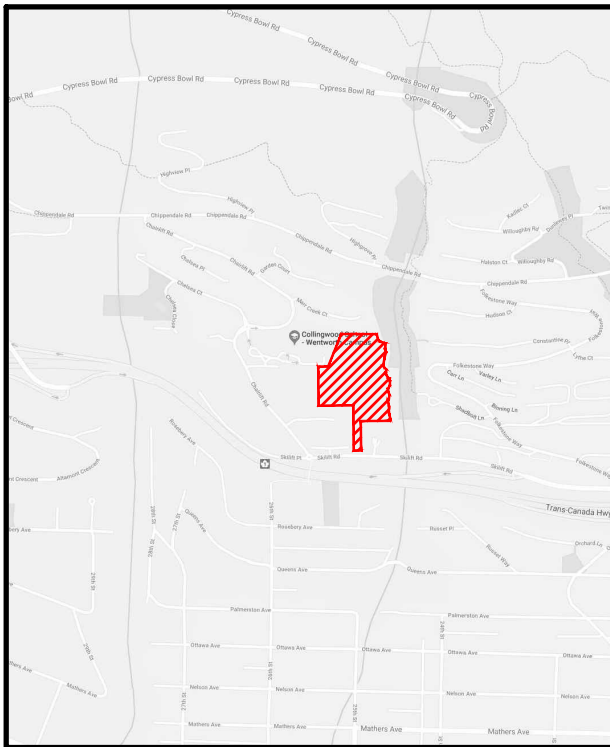
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

title

CROSS SECTIONS
ROAD A

no.	revision	revision	revision
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12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-04-06	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMY COMMENTS	DMD

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engineer of record	scale	1:250
designed by	hor.	1:50
drawn by	file no.	15171
date	drawing no.	XS-5a



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
PROPOSED FREE HYDRANT	---	---	---
PROPOSED GATE VALVE	---	---	---
PROPOSED AIR VALVE	---	---	---
PROPOSED REDUCER	---	---	---
PROPOSED INSPECTION CHAMBER	---	---	---
PROPOSED CATCHBASIN (STD/SD)	---	---	---
PROPOSED MANHOLE	---	---	---
PROPOSED POWER POLE	---	---	---
PROPOSED STREETLIGHT	---	---	---



client
BRIVIA GROUP

project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

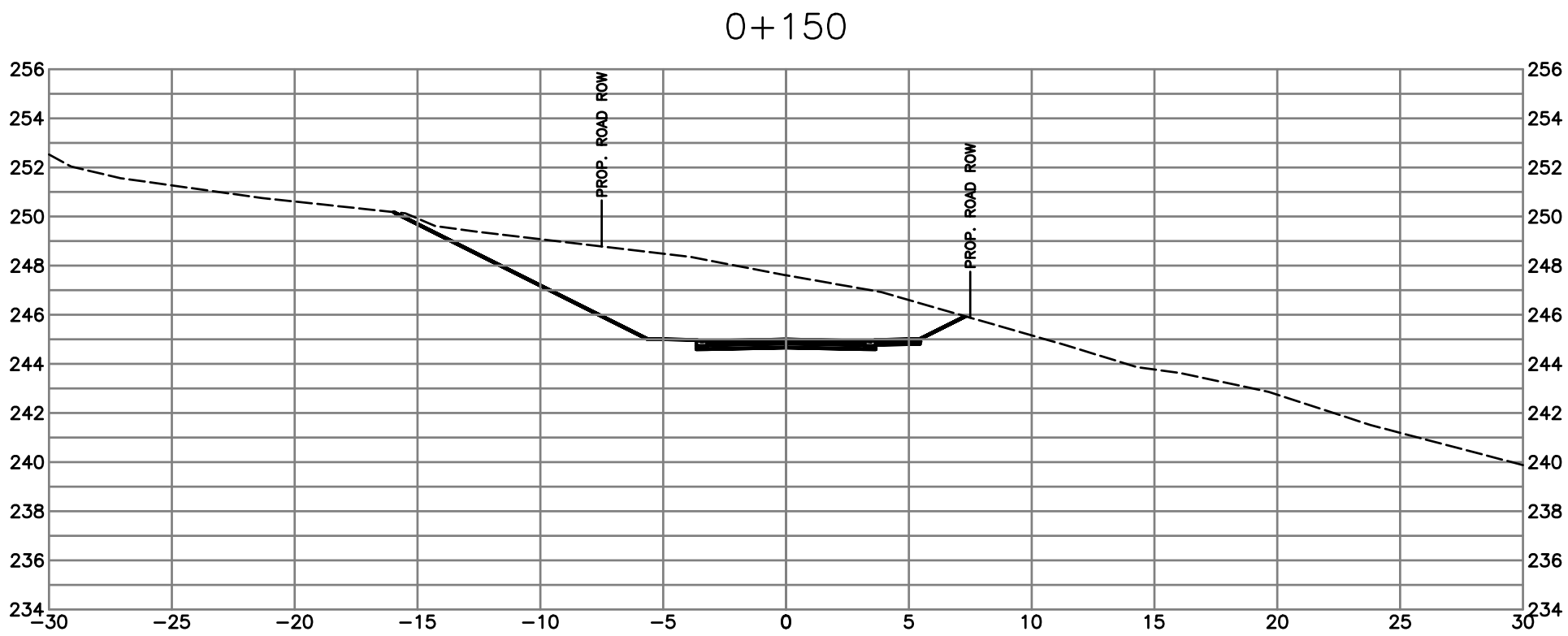
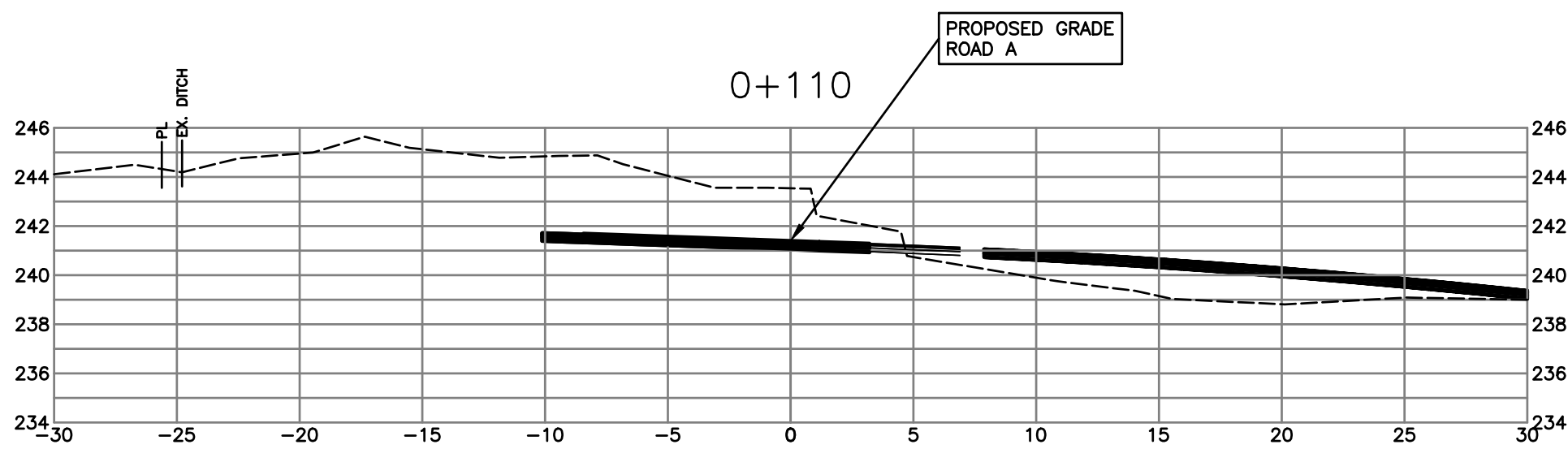
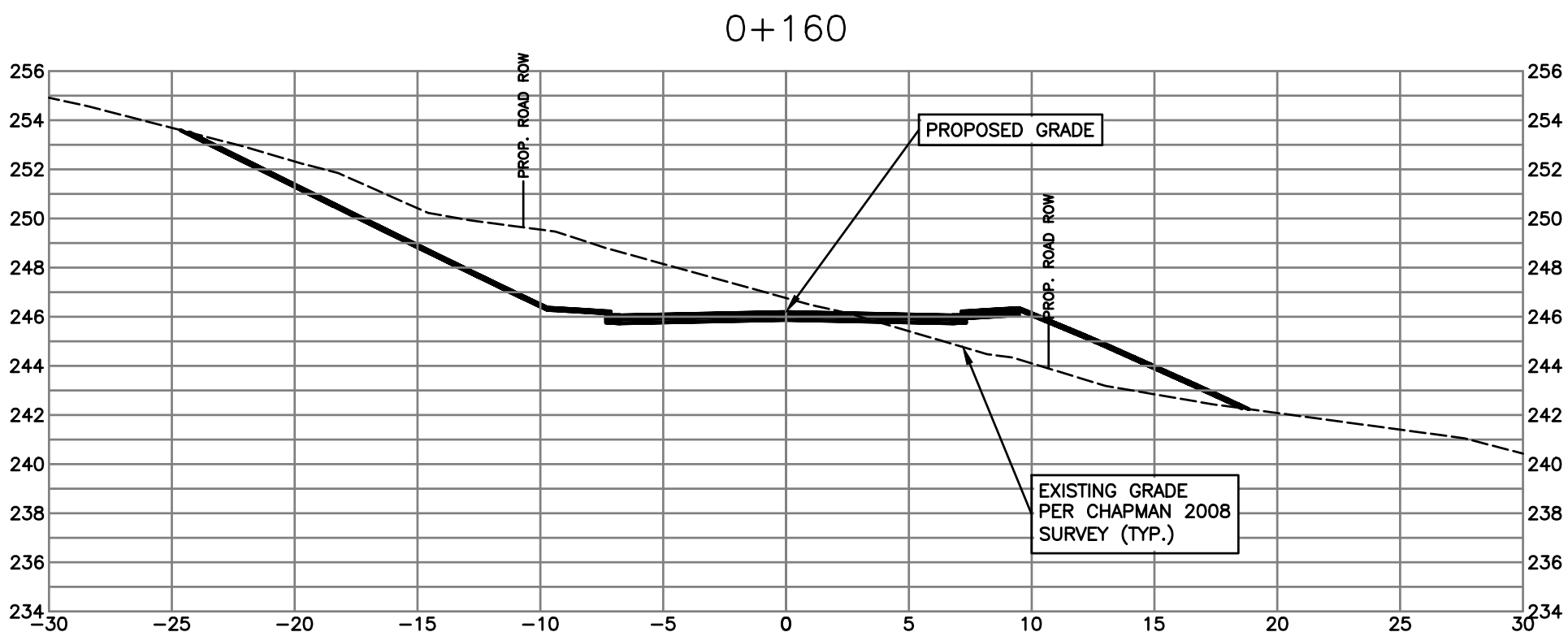
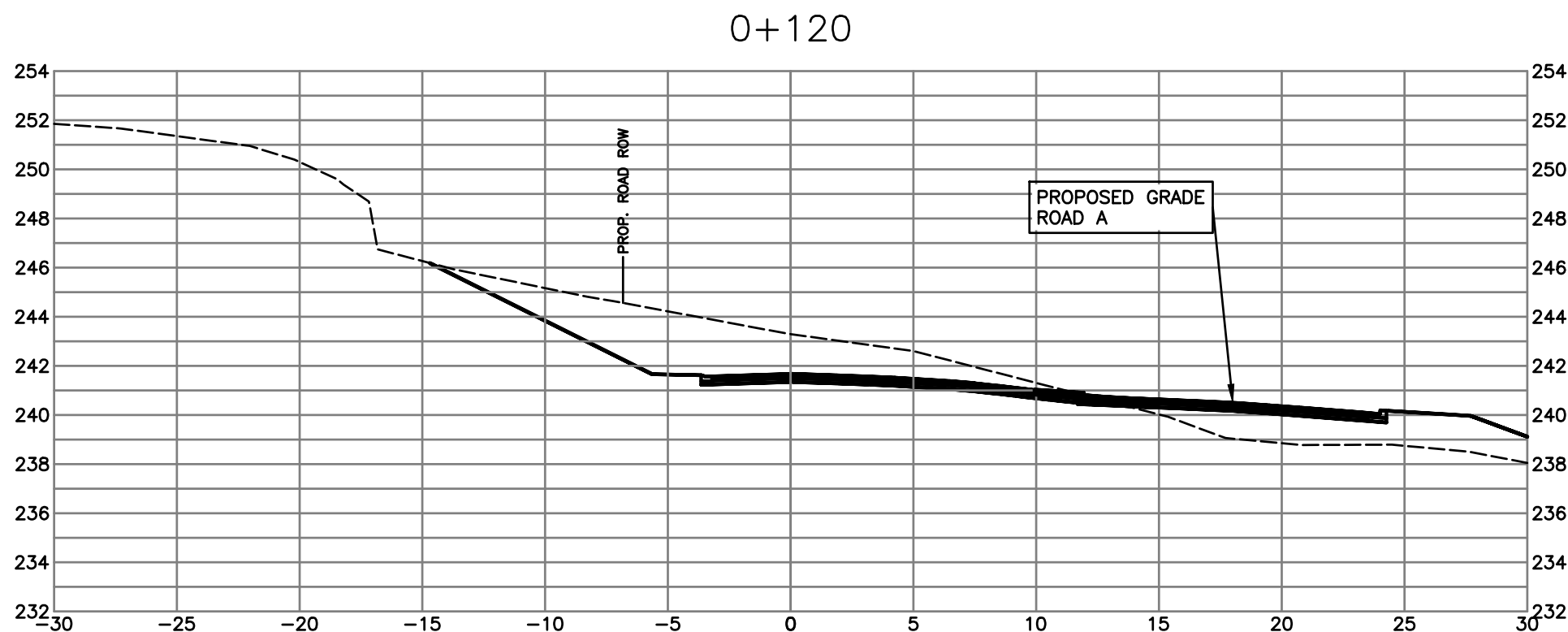
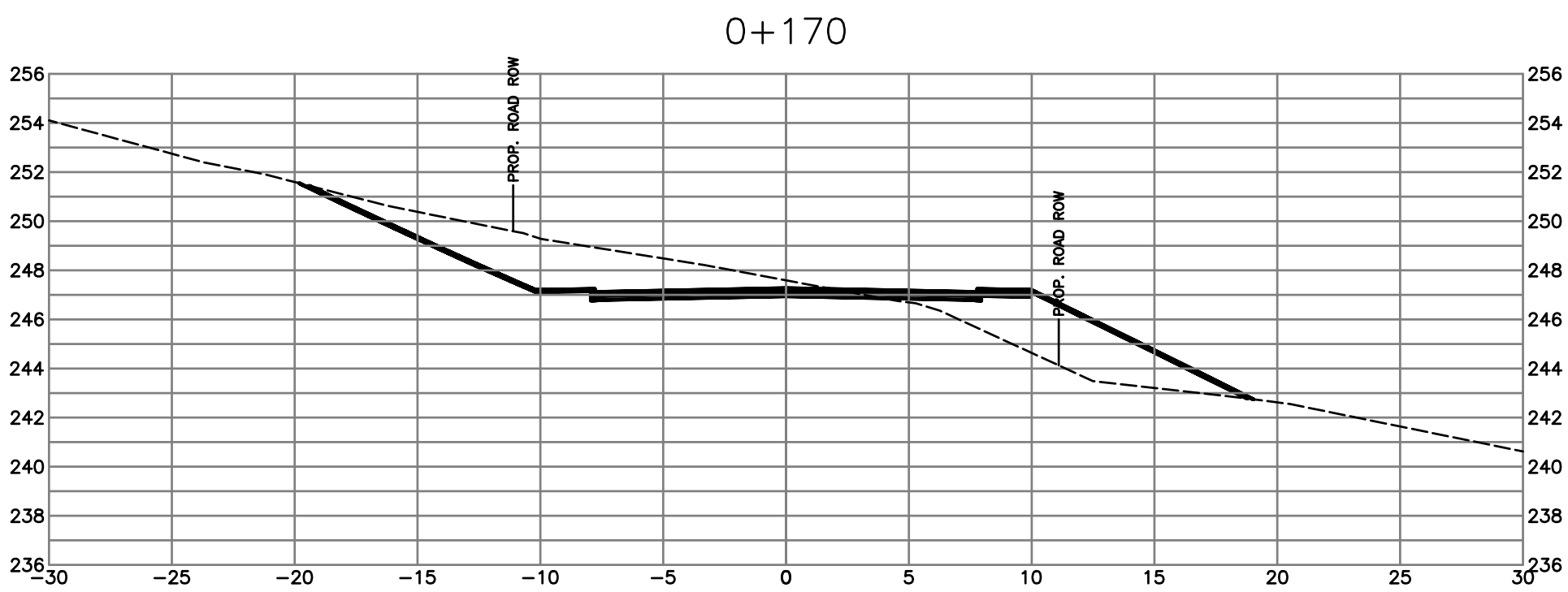
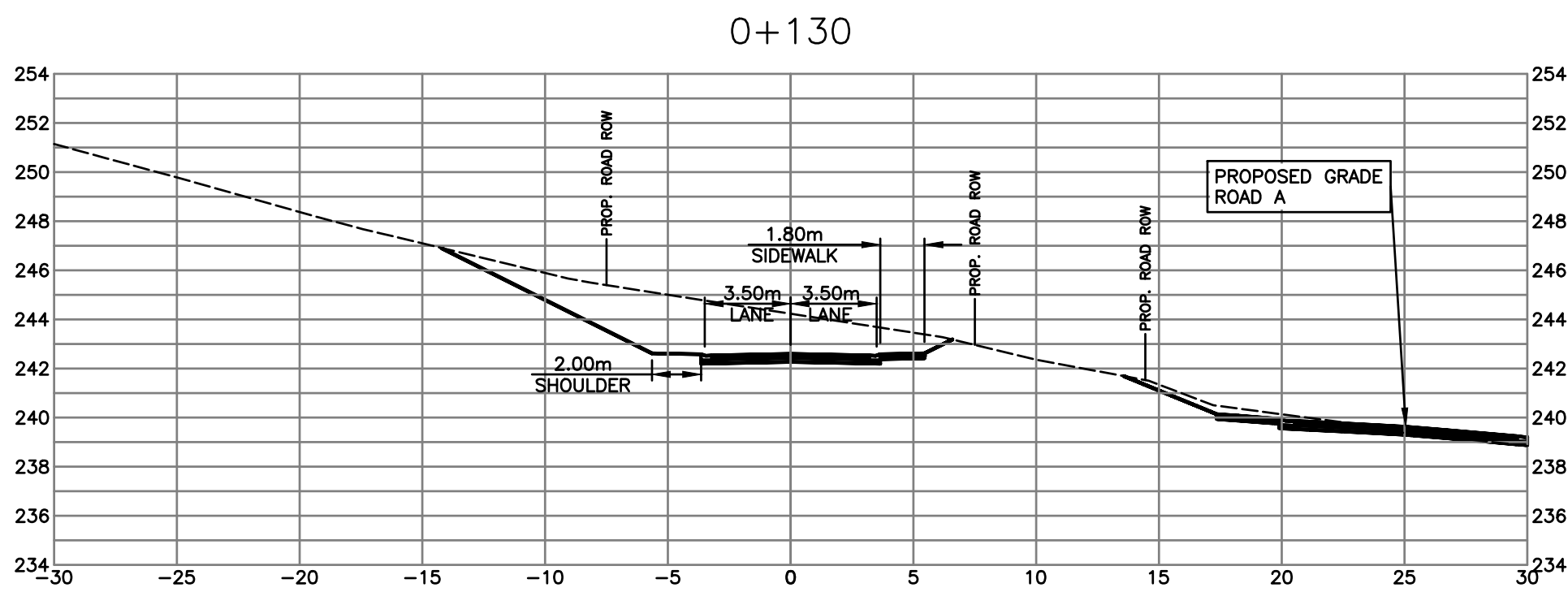
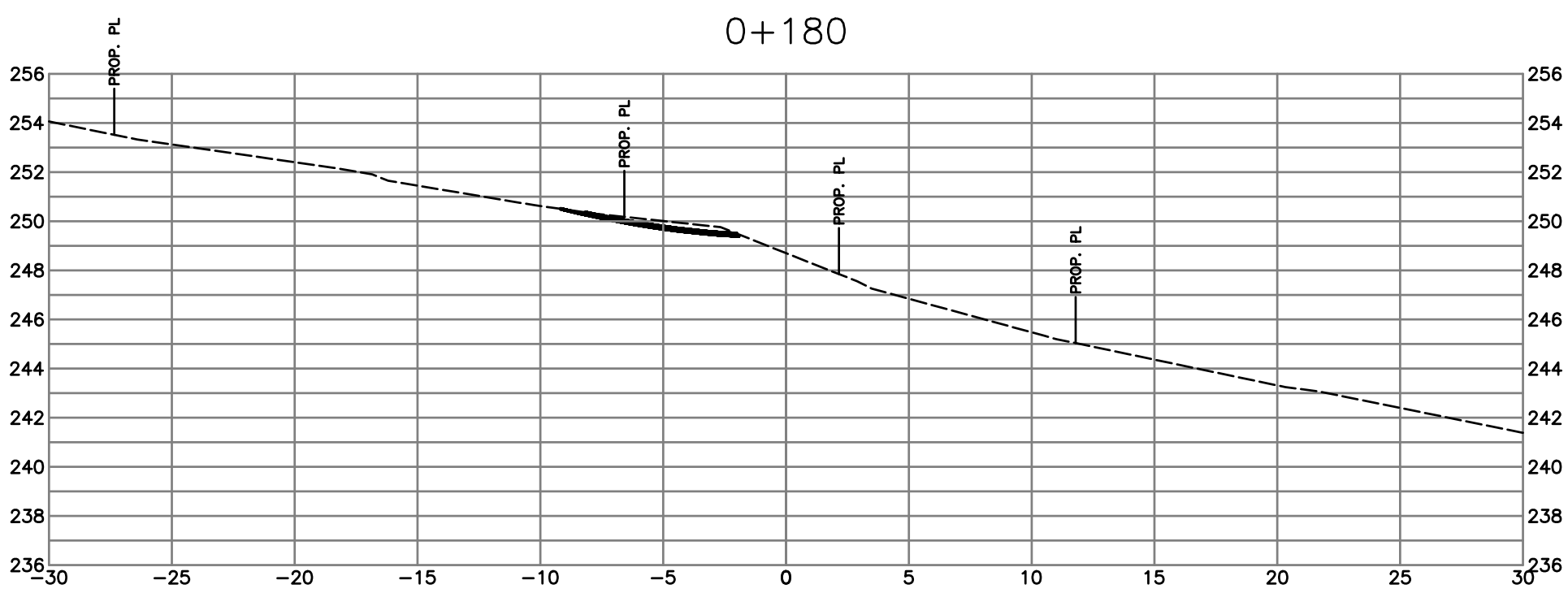
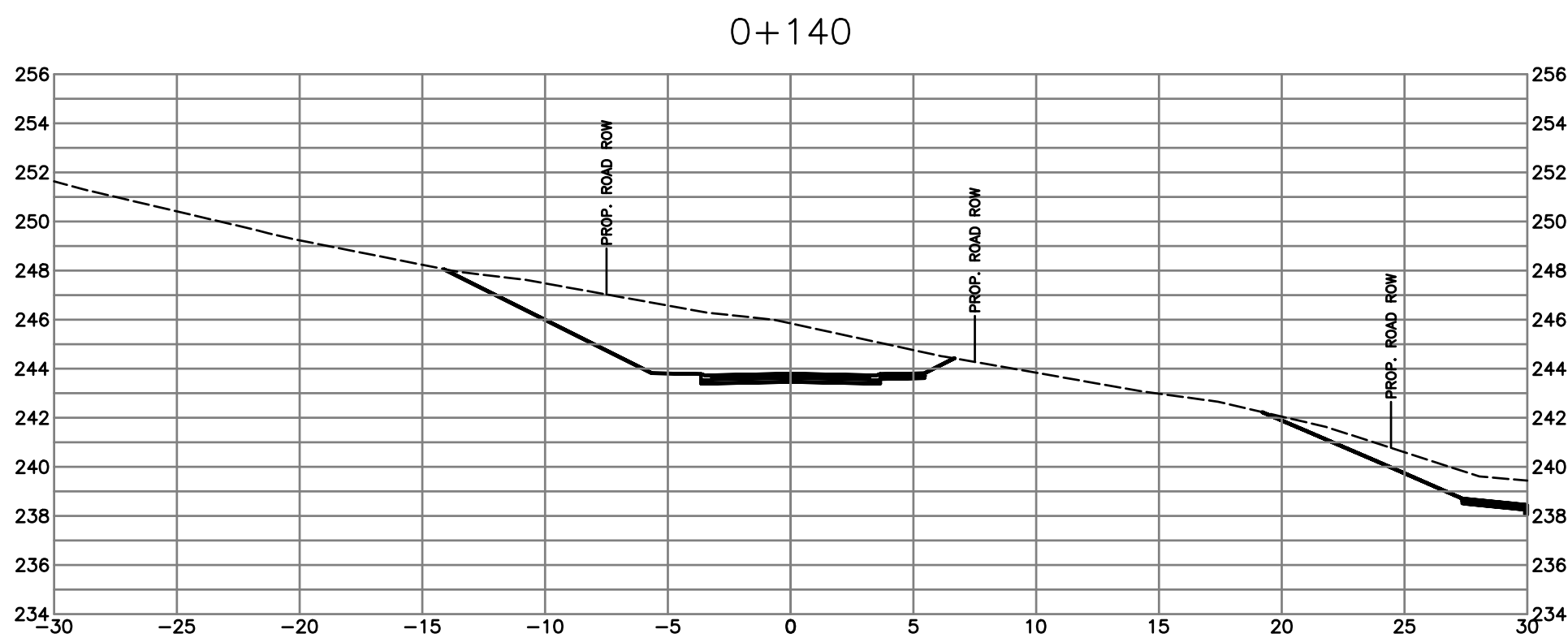
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CROSS SECTIONS
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no.	date	revision	revision
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12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-04-06	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMY COMMENTS	DMD

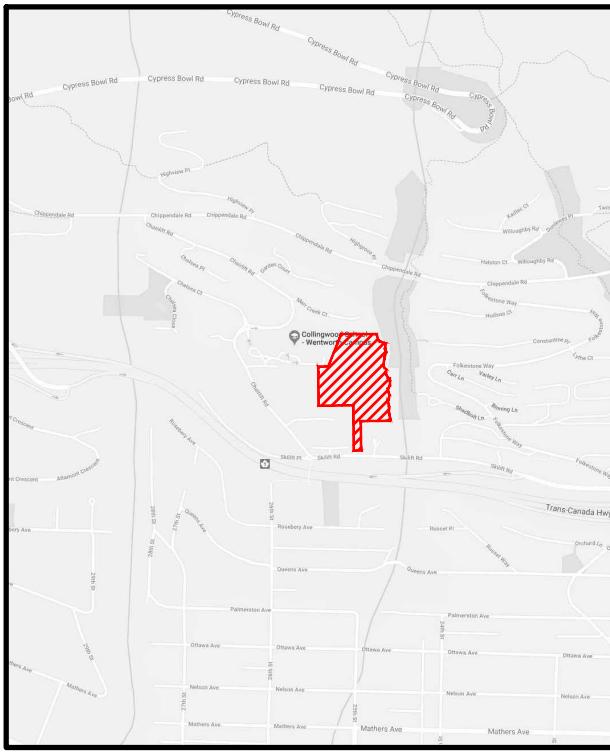
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engineer of record	KBH	scale	hor: 1:250 vert: 1:50
designed by	KBH	file no.	15171
drawn by	LJV	drawing no.	XS-6a
date	2022-10-03		

NOT FOR CONSTRUCTION



PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING WATERMAIN	---	---	---
EXISTING SANITARY	---	---	---
EXISTING HYDRO	---	---	---
EXISTING STREETLIGHT	---	---	---
EXISTING GATE	---	---	---
FREE HYDRANT	○	○	○
GATE VALVE	○	○	○
REDUCE	○	○	○
INSPECTION CHAMBER	○	○	○
CATCH BASIN (STD/SD)	○	○	○
MANHOLE	○	○	○
POWER POLE	○	○	○
STREETLIGHT	○	○	○



BRIVIA GROUP

WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

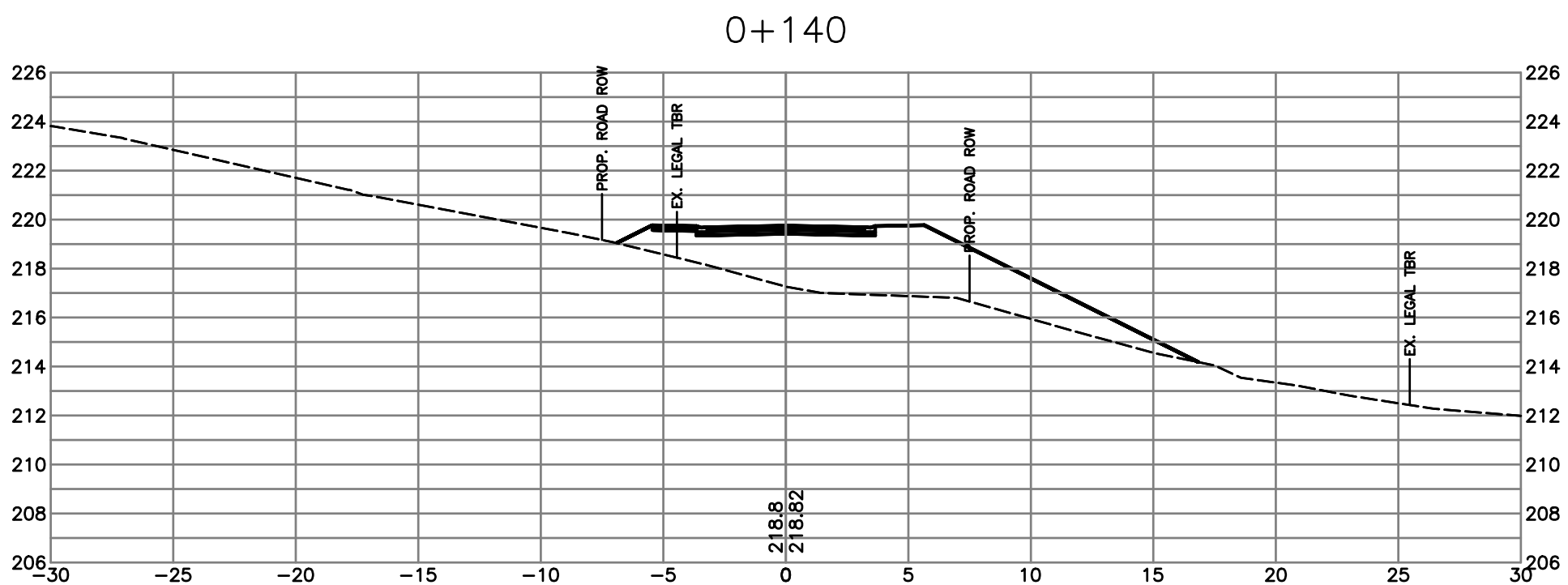
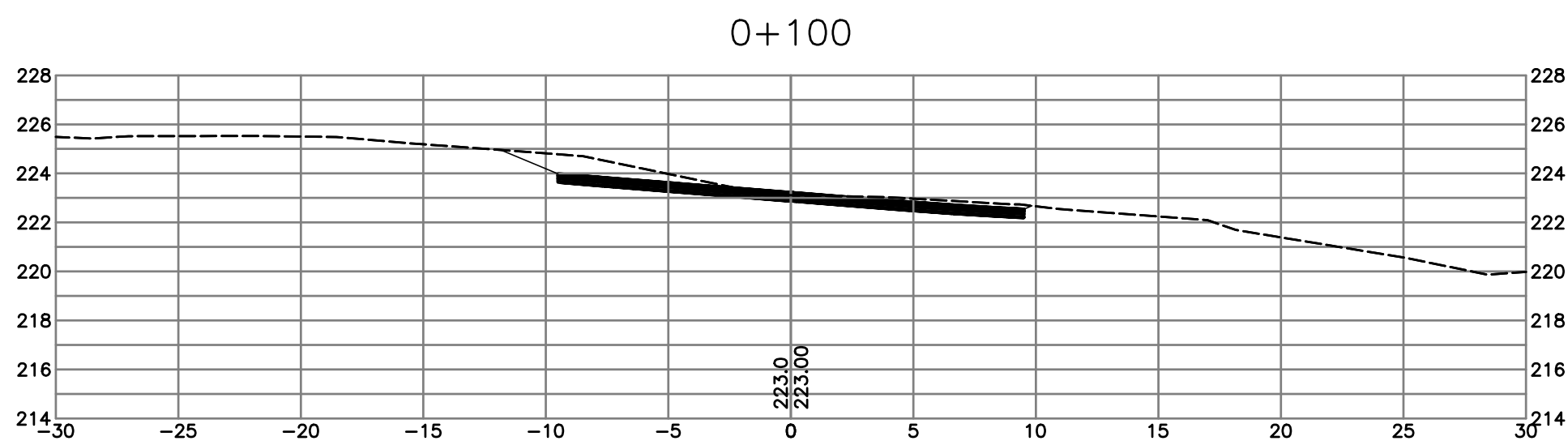
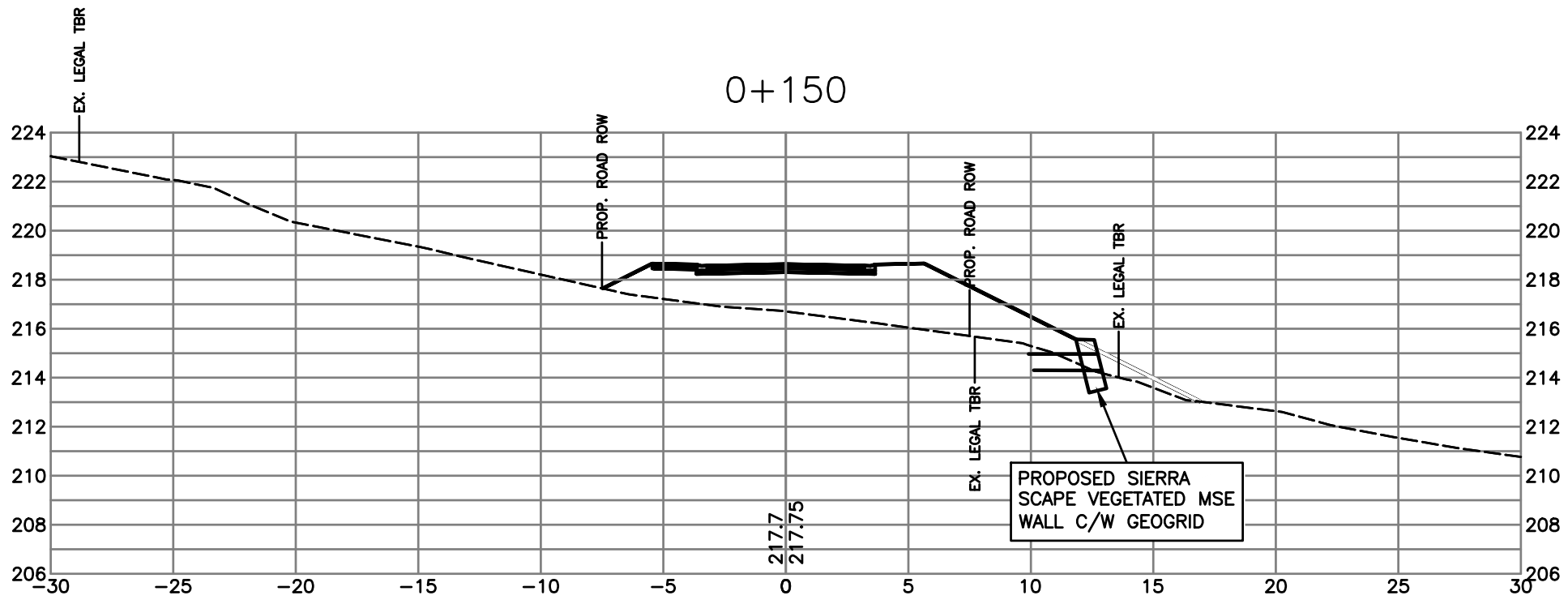
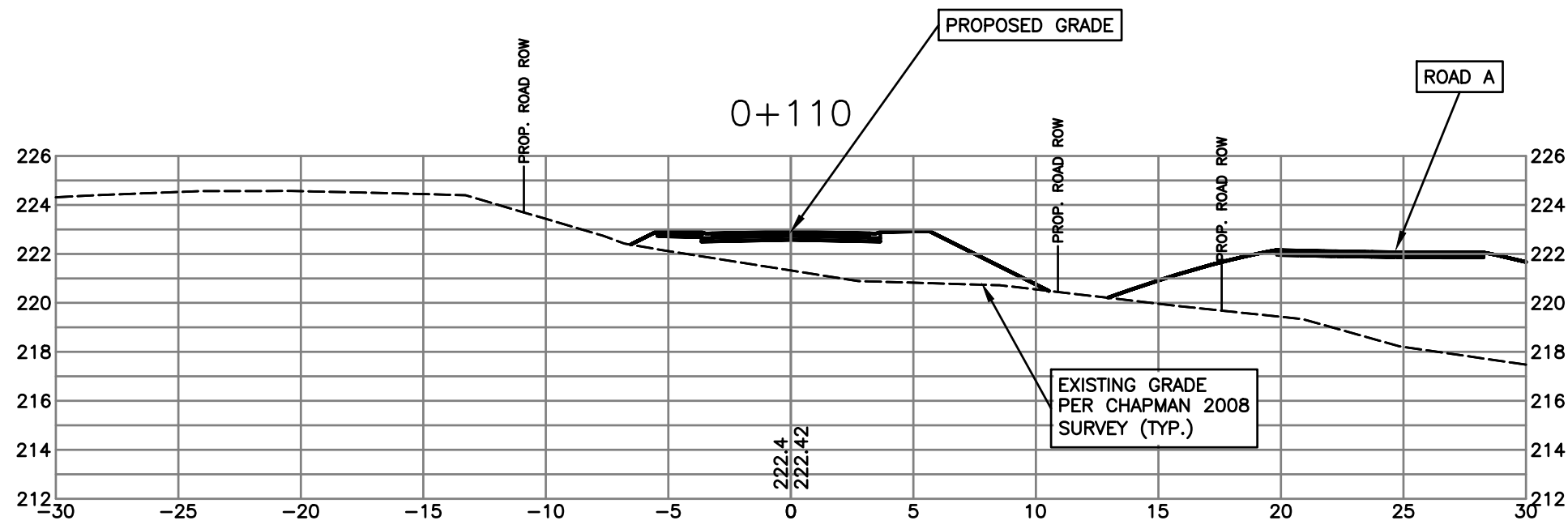
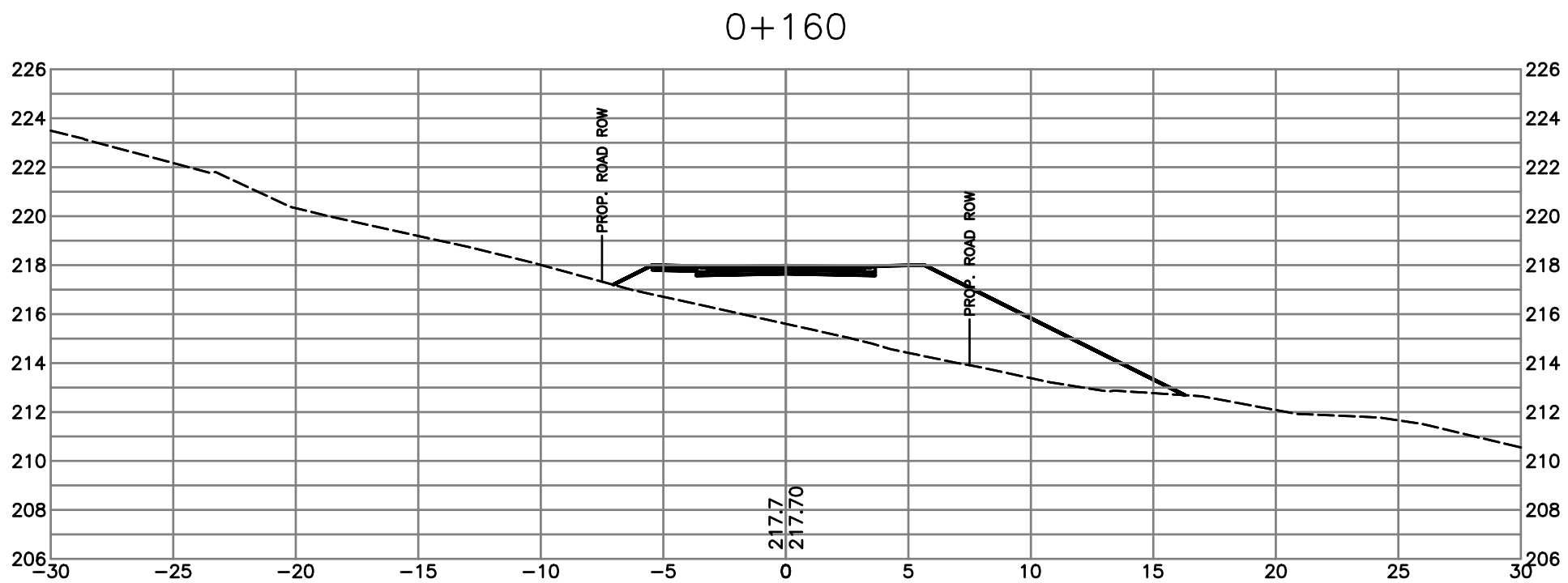
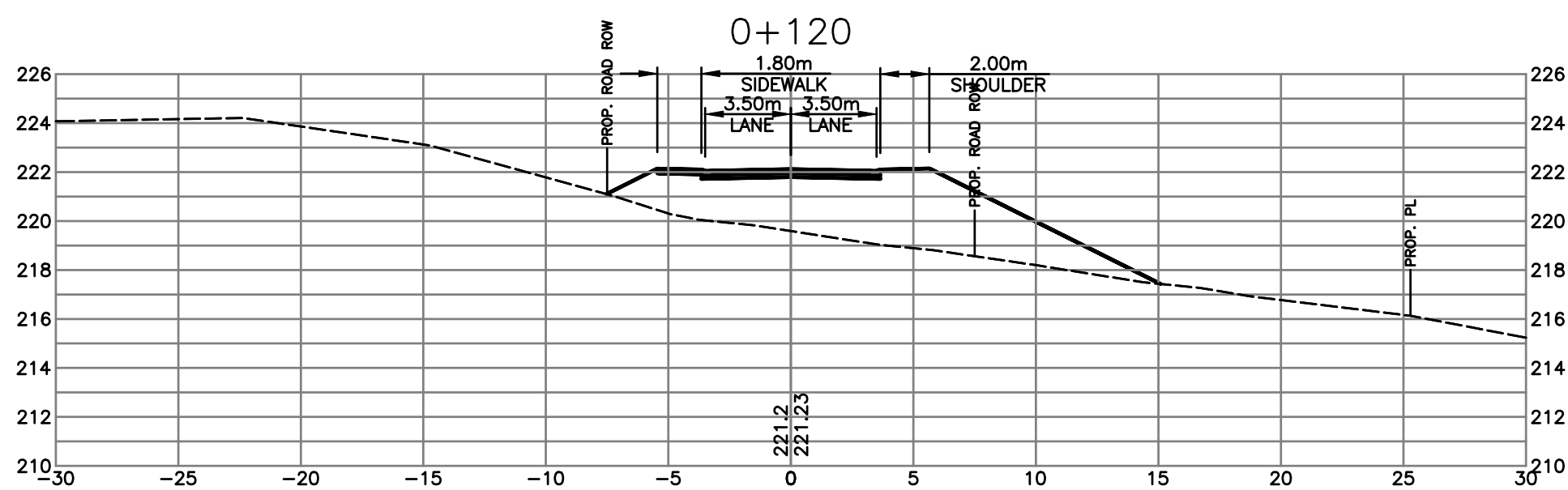
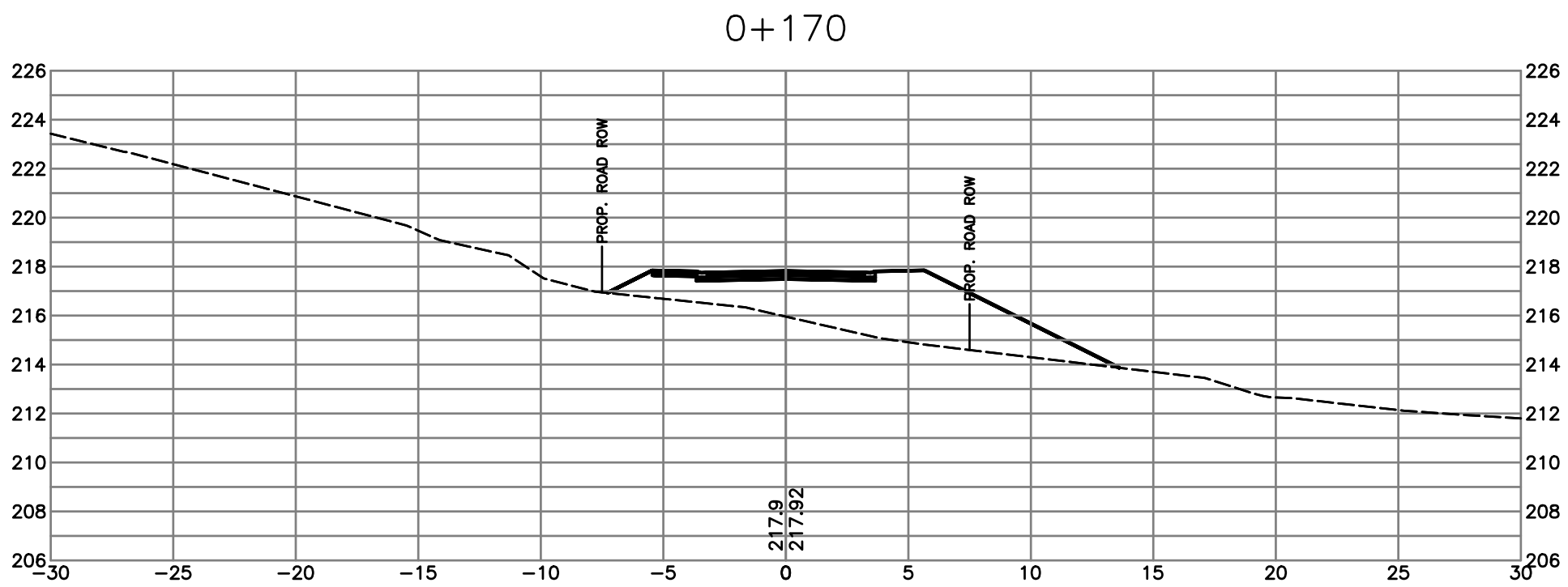
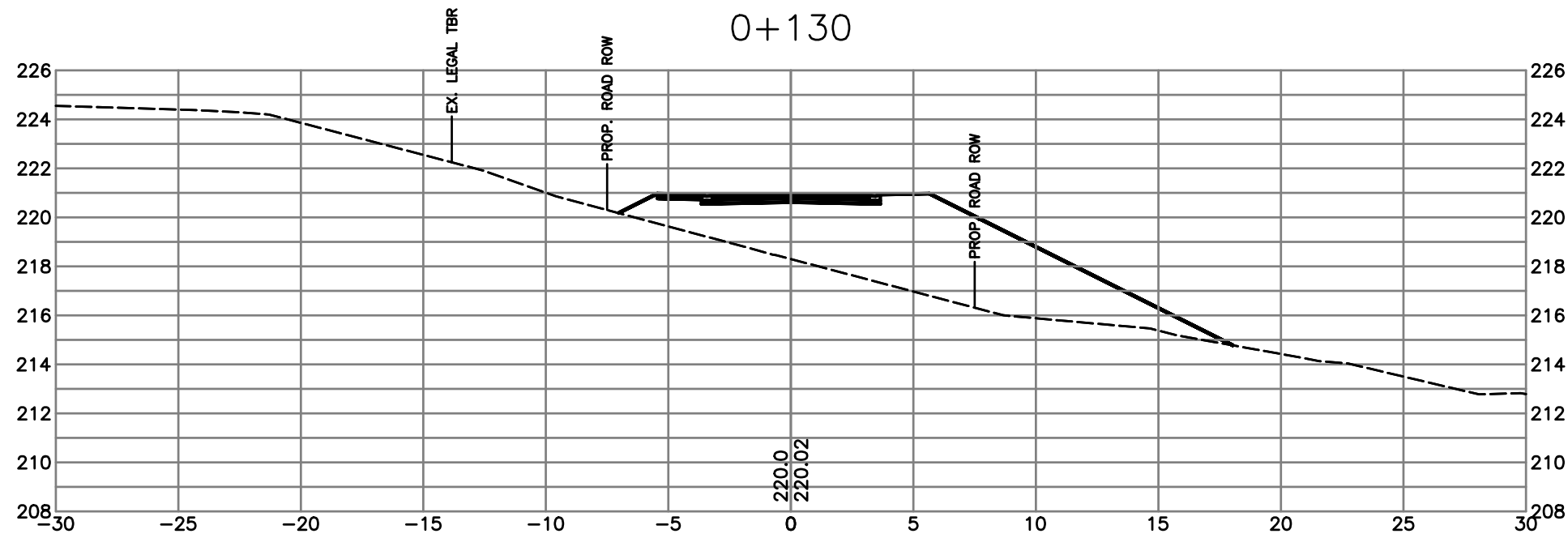
CROSS SECTIONS
ROAD C

no.	q/m/d	revision	date
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12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-06-14	ISSUED FOR DP	CLW
8	24-08-05	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMV COMMENTS	DND

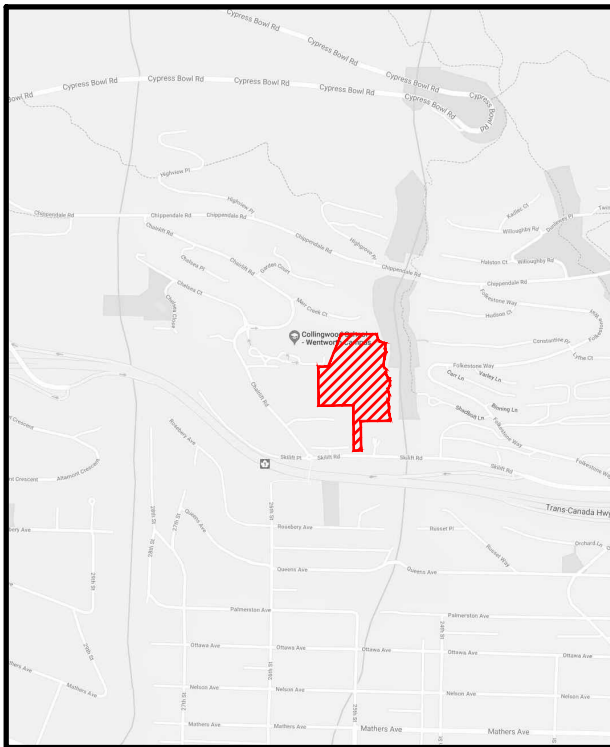
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engineer of record	KBH	scale	1:250	1:50
designed by	KBH	file no.	15171	
drawn by	LJV	drawing no.	XS-7a	
date	2024-10-03			

NOT FOR CONSTRUCTION



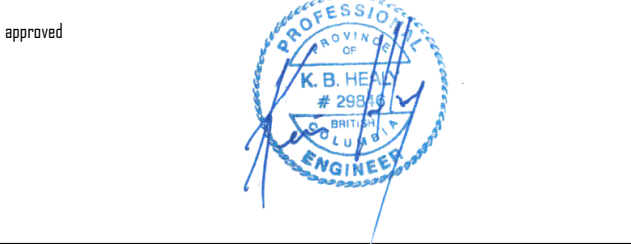
PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
CURBWAY	---	---	---
WATERMAIN	---	---	---
SEWERS	---	---	---
STORM	---	---	---
HYDRO	---	---	---
TEL	---	---	---
STREETLIGHT	---	---	---
GAS	---	---	---
FREE HYDRANT	⊗	⊗	⊗
GATE VALVE	⊙	⊙	⊙
REDUCER	⊘	⊘	⊘
INSPECTION CHAMBER	⊕	⊕	⊕
CATCHBASIN (ST/SD)	⊕	⊕	⊕
MANHOLE	⊕	⊕	⊕
POWER POLE	⊕	⊕	⊕
STREETLIGHT	⊕	⊕	⊕



client
BRIVIA GROUP

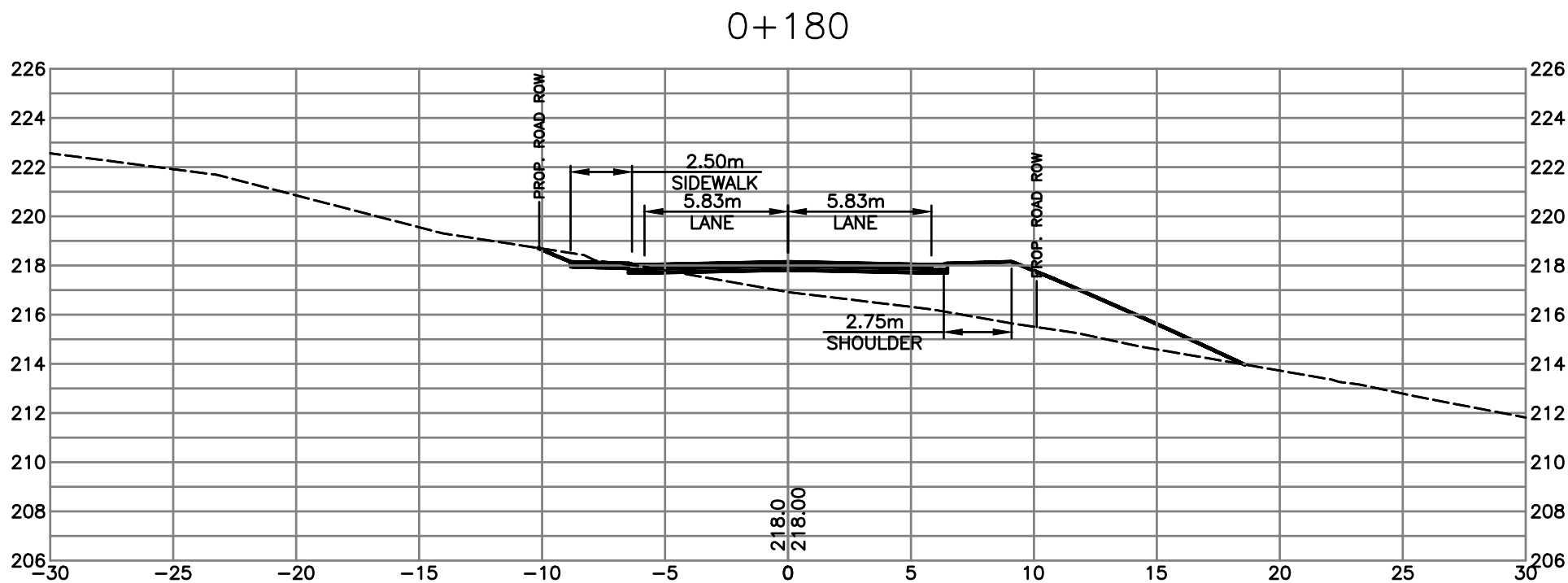
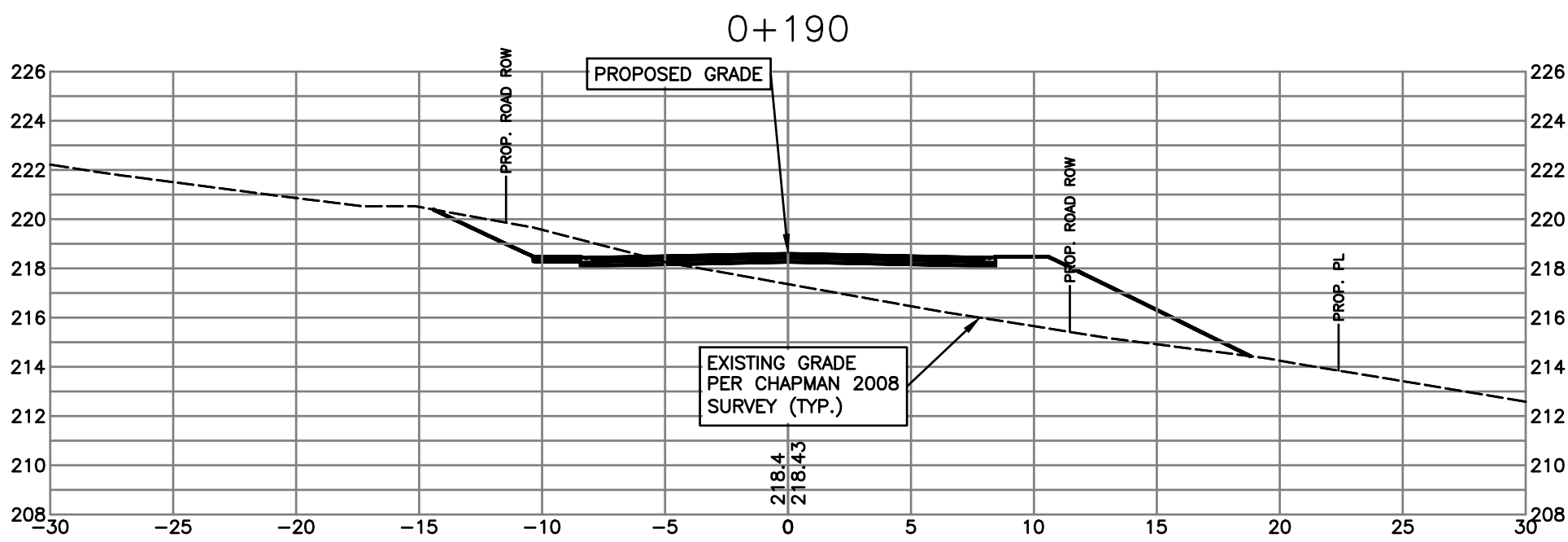
project
WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

revision
CROSS SECTIONS
ROAD C

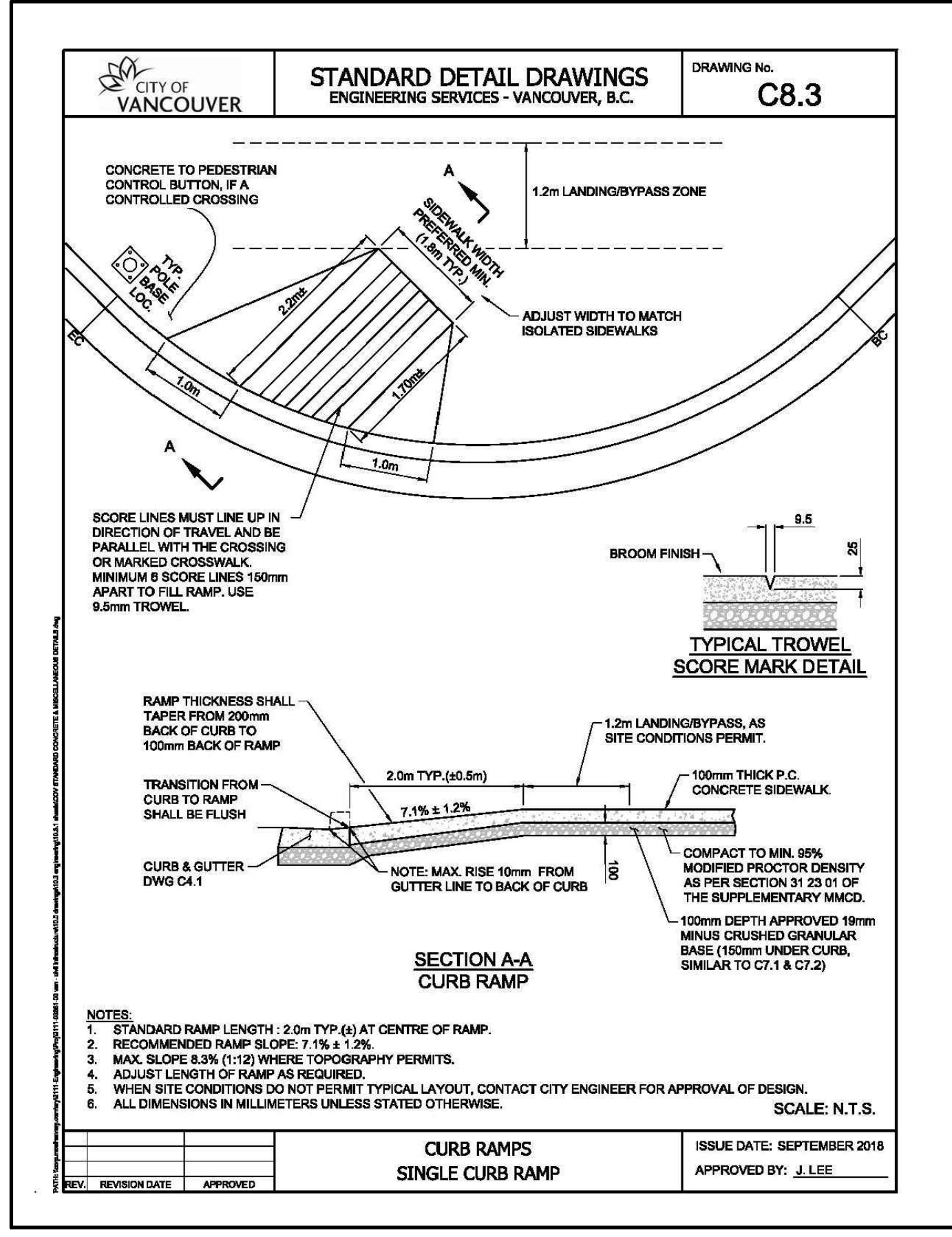
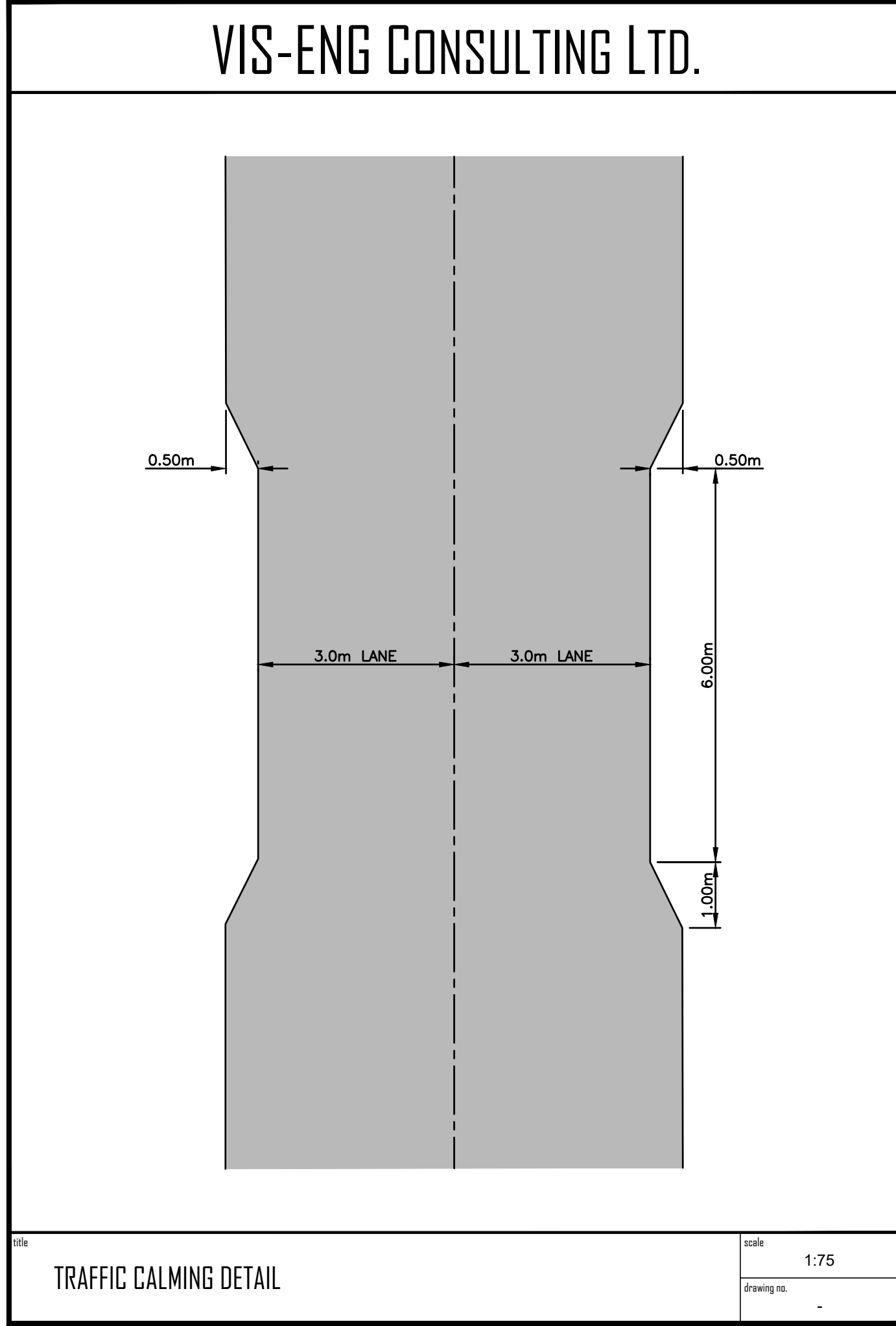
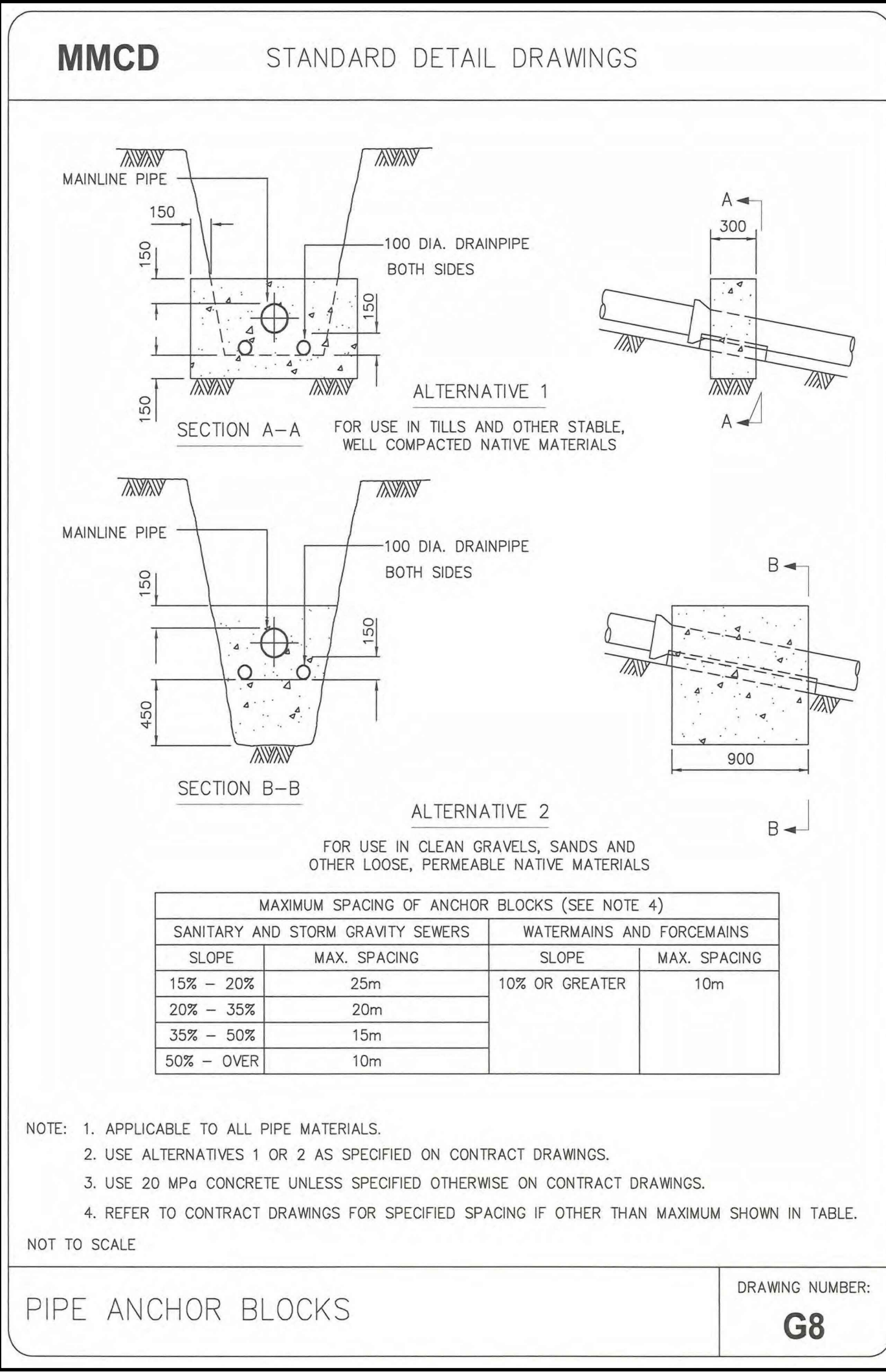
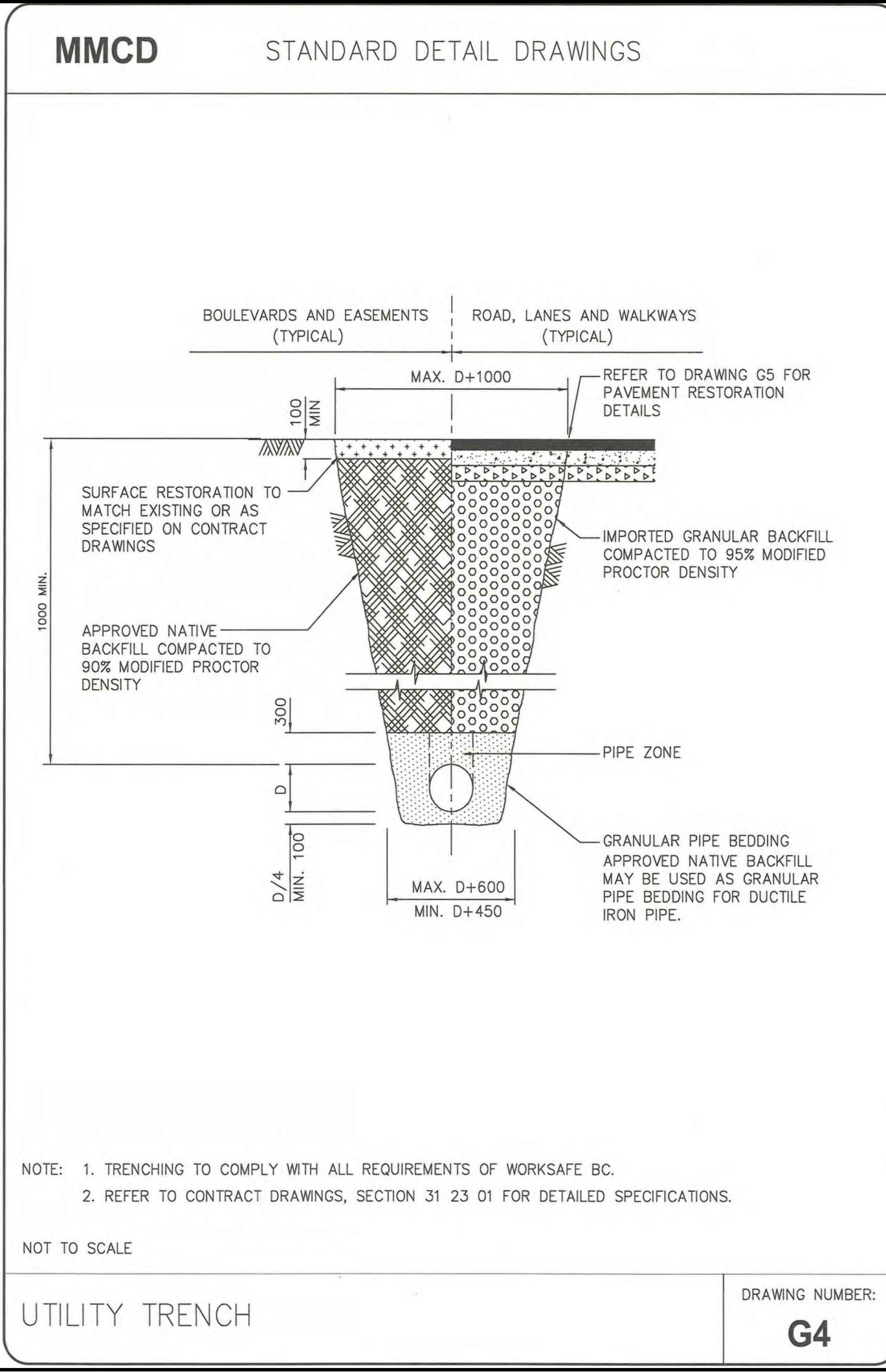
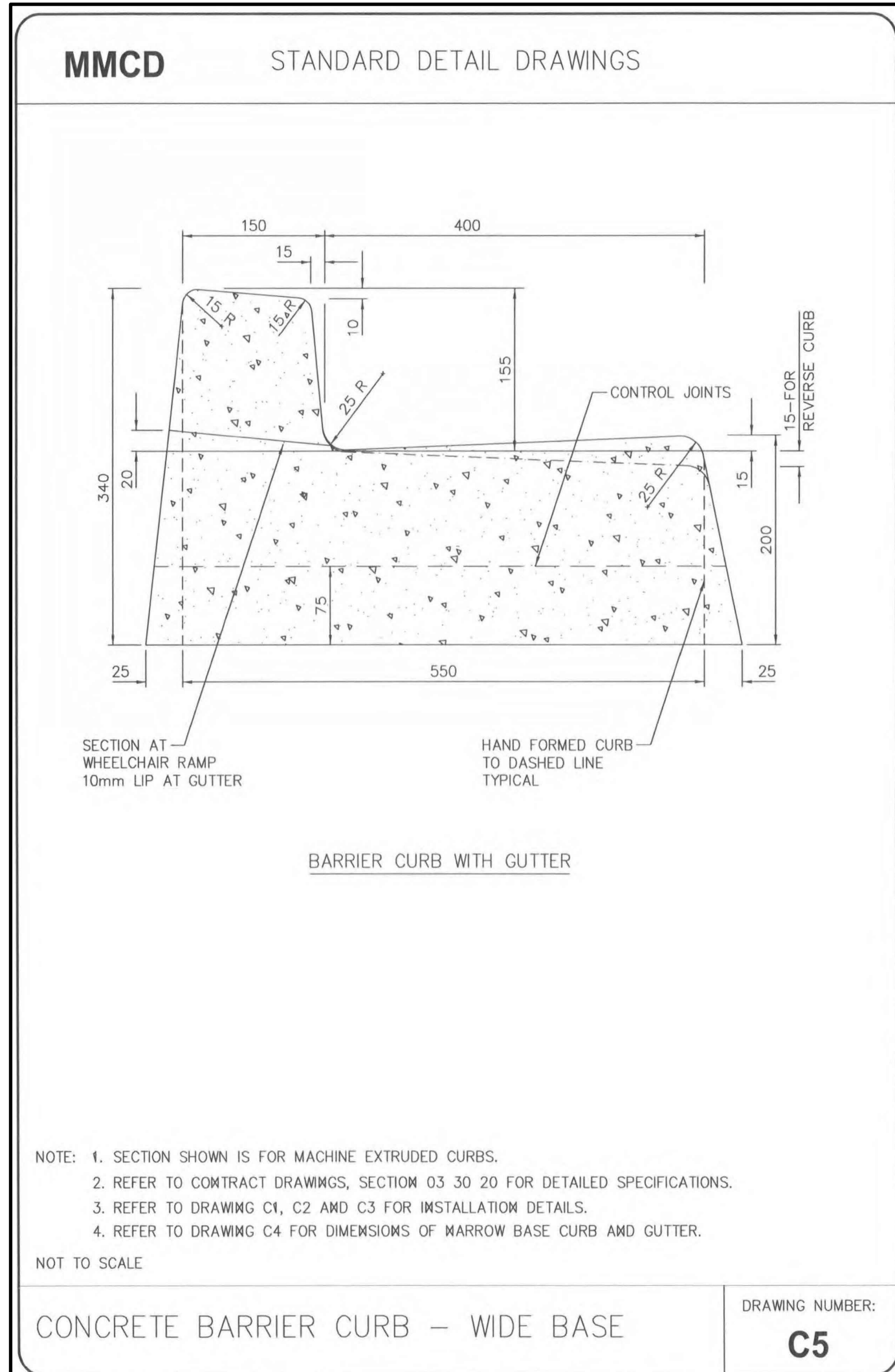
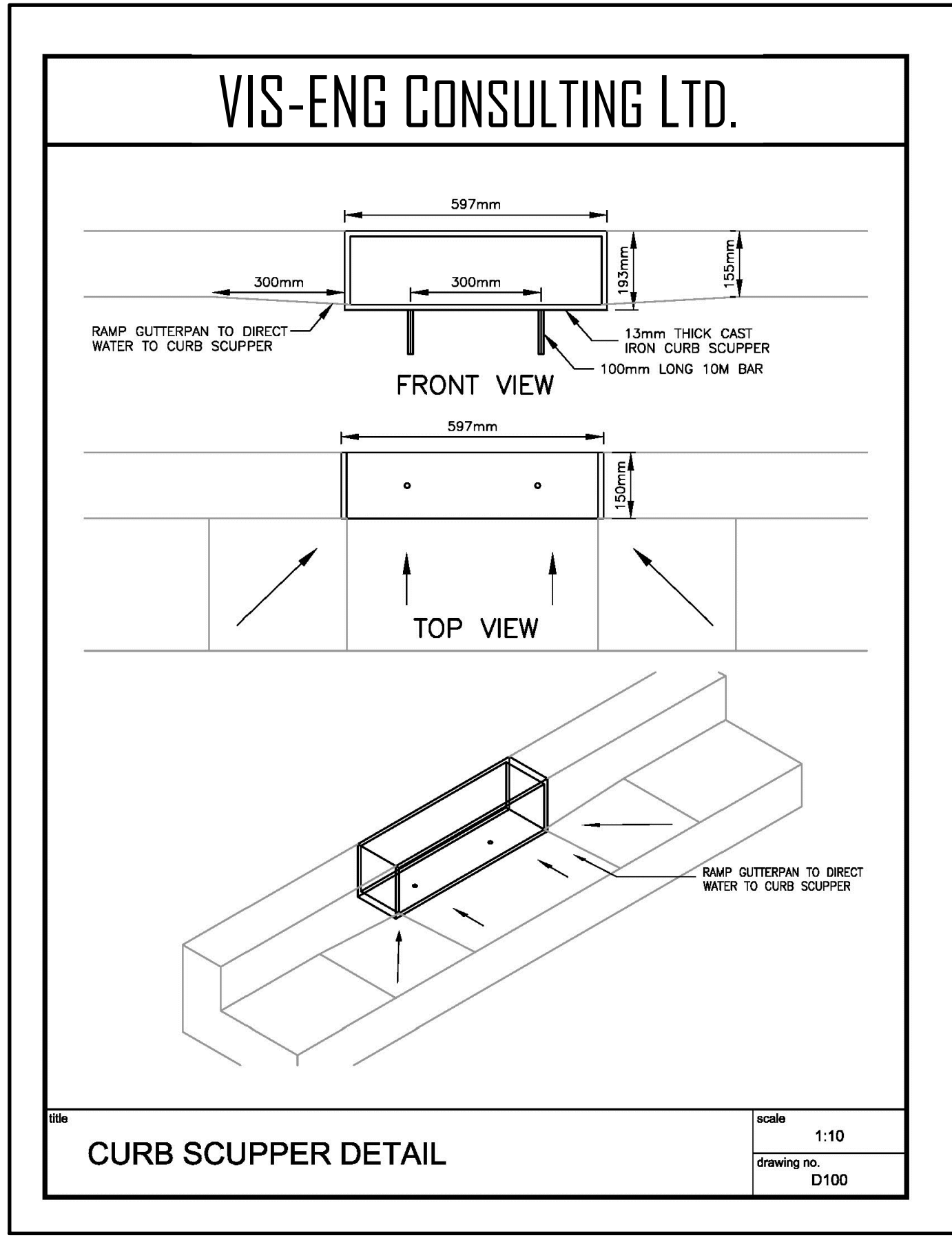
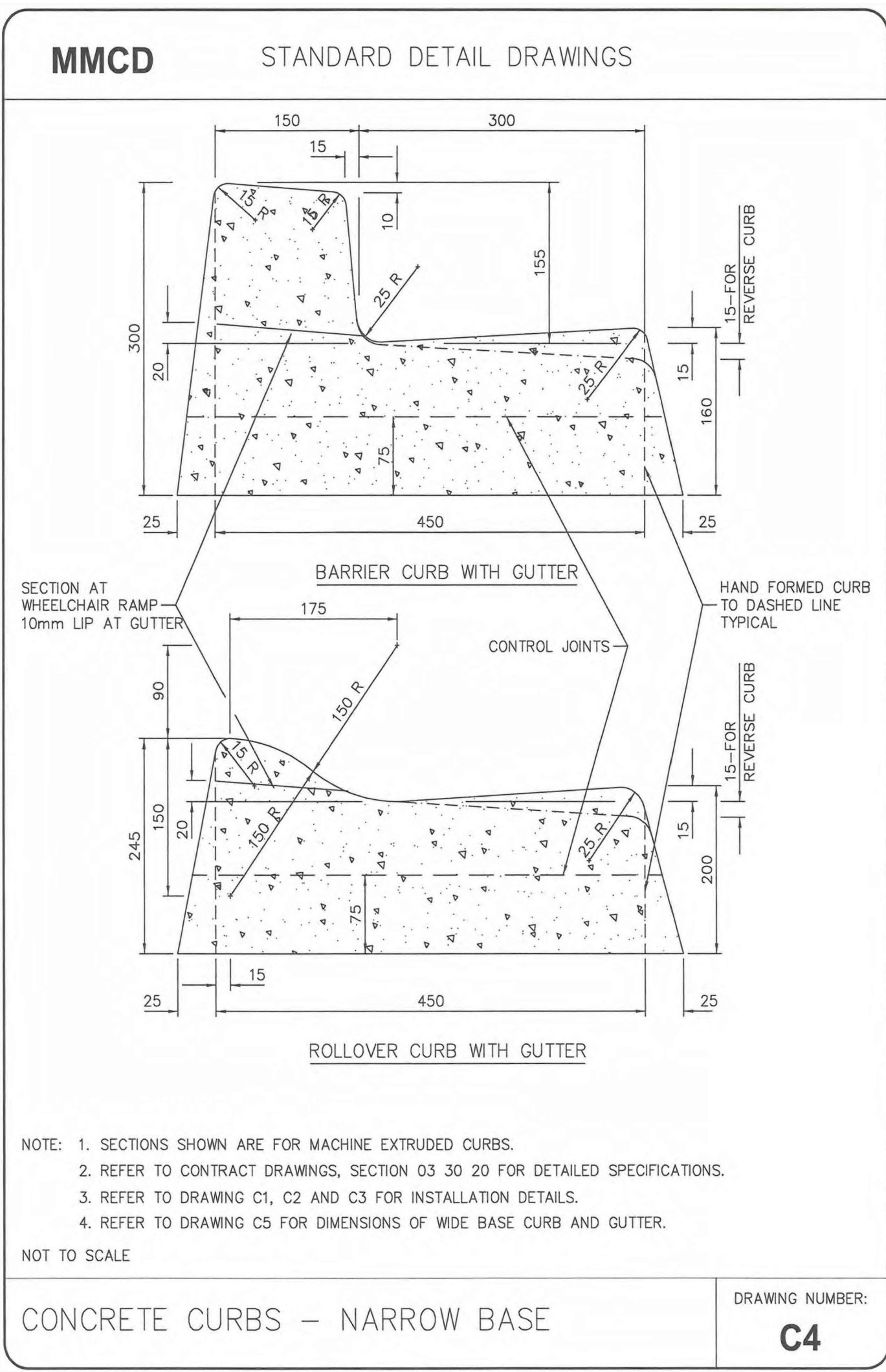
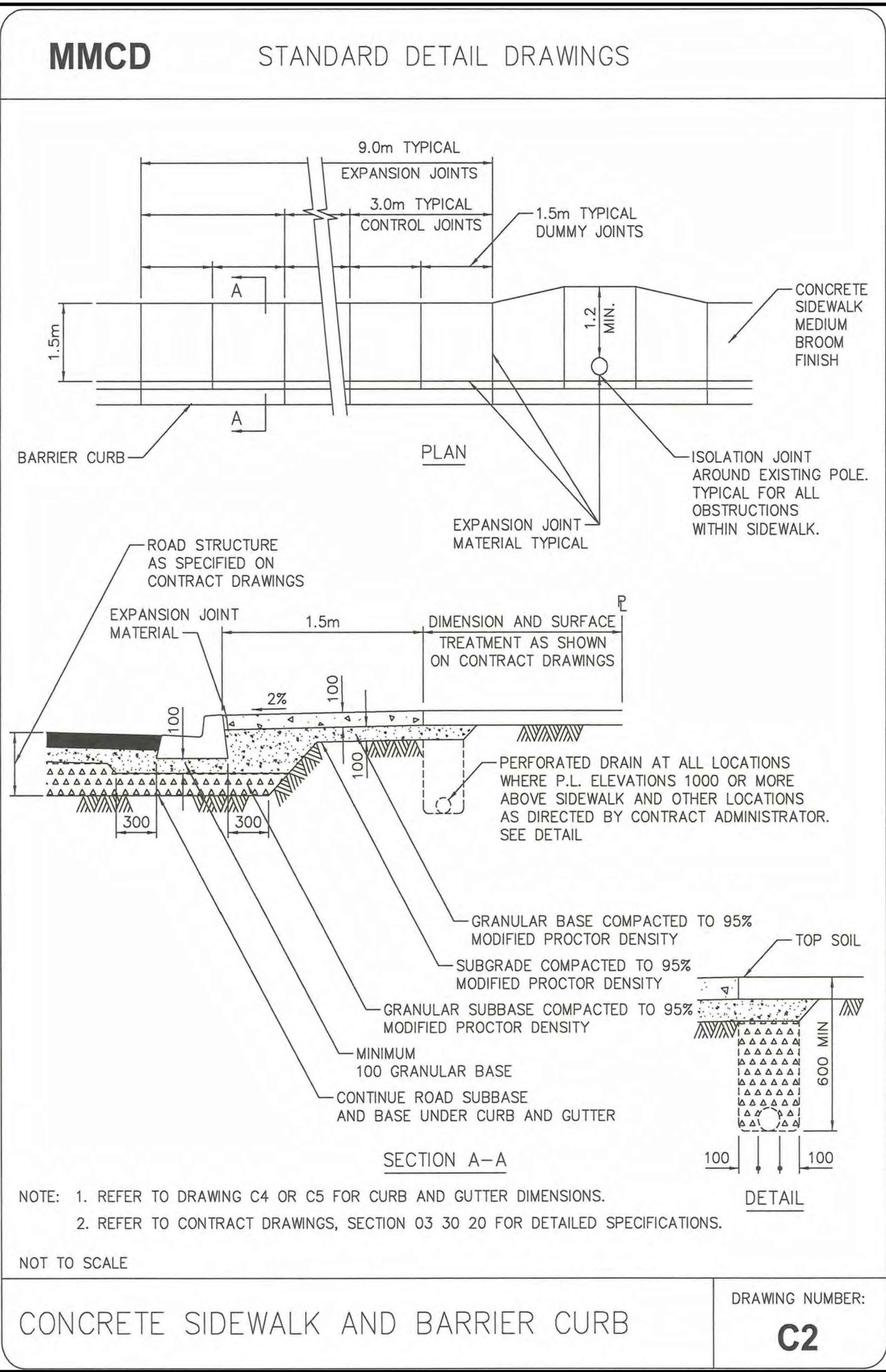
no.	date	revision	drawn by
13	25-02-03	REISSUED FOR DP	CLW
12	25-09-03	REISSUED FOR DP	CLW
11	24-02-08	REISSUED FOR DP	CLW
10	24-12-07	REISSUED FOR DP	CLW
9	24-04-09	ISSUED FOR TEAM REVIEW	CLW
8	24-01-06	ISSUED FOR CLIENT REVIEW	AD
7	24-08-03	REVISED AS PER DMV COMMENTS	DMV

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engineer of record	KBH	scale	hor: 1:250 vert: 1:50
designed by	KBH	file no.	15171
drawn by	CLW	drawing no.	XS-8a
date	2024-02-03		



NOT FOR CONSTRUCTION



VIS-ENG CONSULTING LTD.

CIVIL ENGINEERING PROJECT MANAGEMENT

#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC V7M 1A5

PHONE: 604-278-4402 WEB: VIS-ENG.ca

PERMIT TO PRACTICE # 1005639

SITE MAP

DRAWING LEGEND

LEGAL LINE EXISTING PREP. TO BE REMOVED

LEGAL LINE EXISTING PREP. TO BE REMOVED

PROFESSIONAL ENGINEER

BRIVIA GROUP

WENTWORTH COLLINGWOOD WEST VANCOUVER, BC

STANDARD DETAILS

REV.	DATE	DESCRIPTION	BY	CHKD
1	25-02-03	ISSUED FOR DP	CLW	
2	25-09-03	ISSUED FOR DP	CLW	
3	24-02-08	ISSUED FOR DP	CLW	
4	24-12-07	ISSUED FOR DP	CLW	
5	24-06-14	ISSUED FOR DP	CLW	
6	24-08-03	REVISED AS PER DOW COMMENTS	DOW	

12

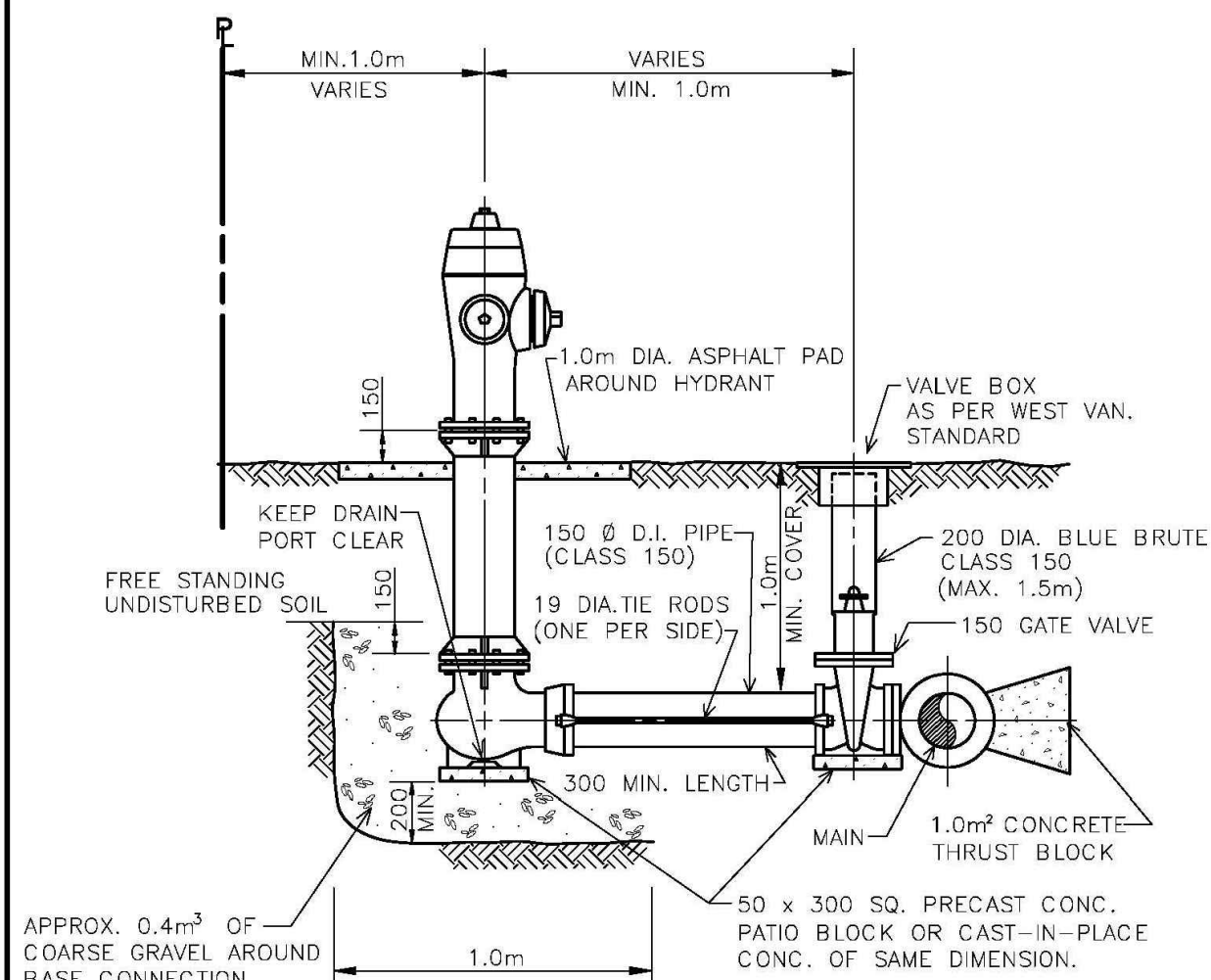
The diagram illustrates various pipe joint arrangements in plan view, categorized into five groups:

- TEES:** Shows a standard tee joint and a cross-tee joint.
- CROSSES:** Shows a standard cross joint and a cross-tee joint.
- 90° BENDS:** Shows a 90-degree bend joint.
- 11 1/4°, 22 1/2°, 45° BENDS:** Shows joints for bends at these specific angles.
- CAPS:** Shows a cap joint.

Each diagram includes hatching to indicate the ground level or the direction of flow.

NOT TO SCALE

DRAWING NUMBER:
W1



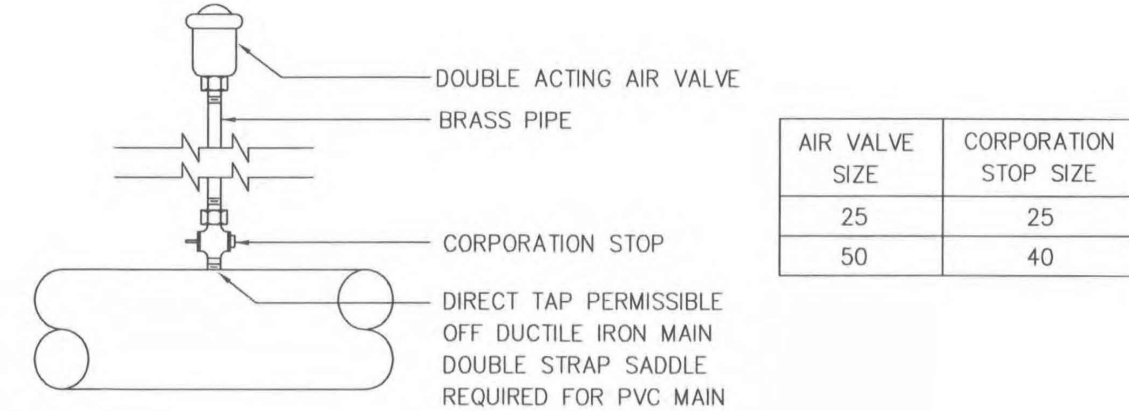
- | | | |
|--|---------------|----------|
| TITLE: FIRE HYDRANT ASSEMBLY

DISTRICT OF WEST VANCOUVER | DATE: MAY 11 | REV: 1 |
| | APPR: C.W. | DWG. NO. |
| | DRAWN: H.A.B. | W - 1 |
| | SCALE: N.T.S. | |

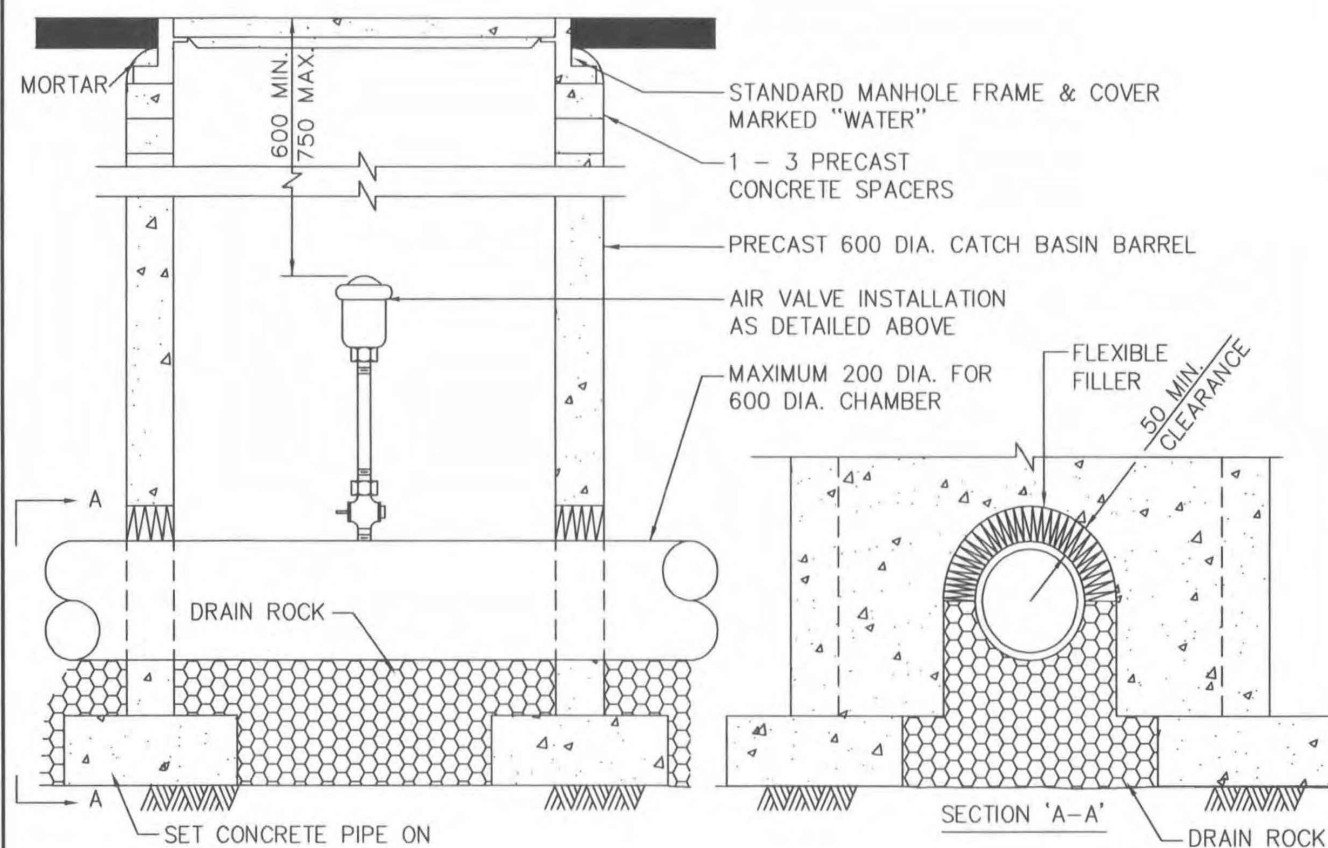
FIRE HYDRANT ASSEMBLY

DISTRICT OF WEST VANCOUVER

DATE: <u>MAY/11</u>	REV: <u>1</u>
APPR: <u>C.W.</u>	DWG. NO.
DRAWN: <u>H.J.B.</u>	W - 1
SCALE: <u>N.T.S.</u>	



AIR VALVE ASSEMBLY DETAIL

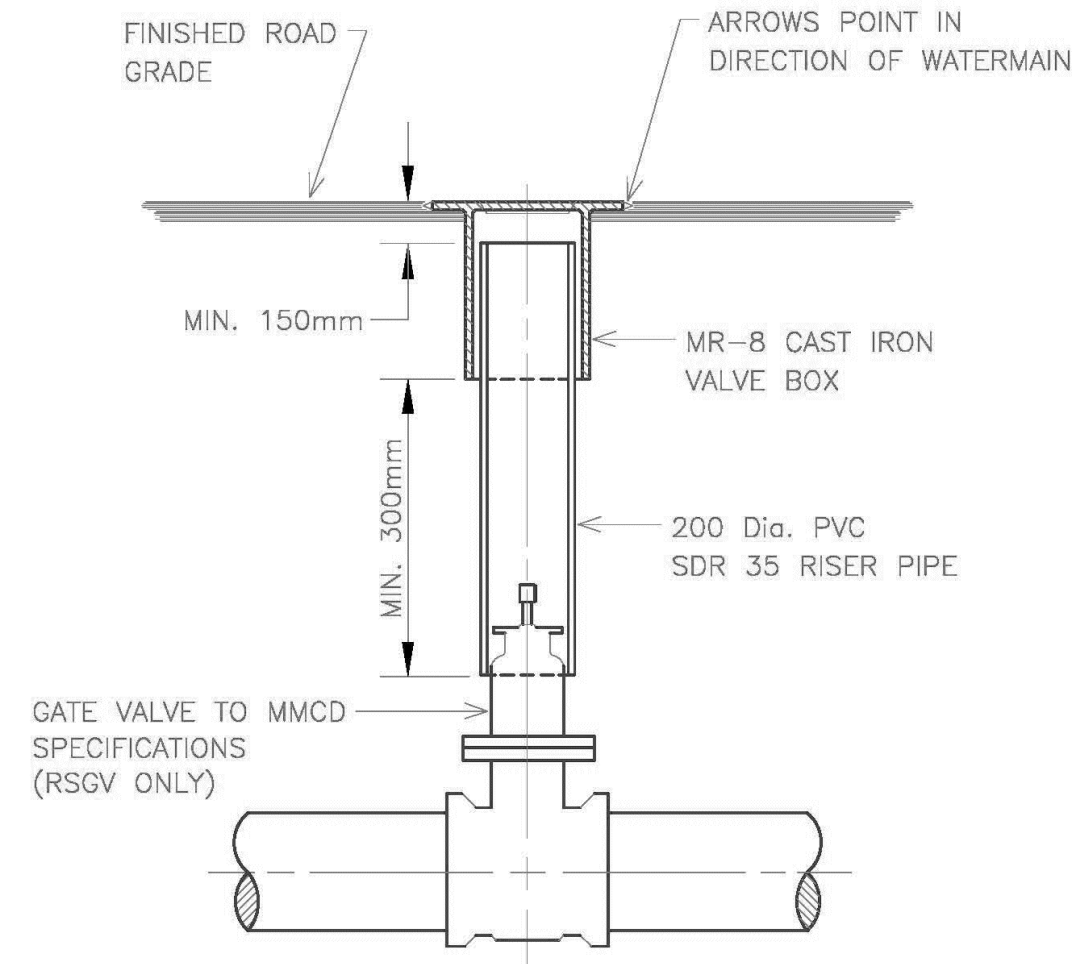


CHAMBER DETAIL

- NOT TO SCALE

AIR VALVE ASSEMBLY – 25 AND 50mm VALVES

DRAWING NUMBER:
W6



TITLE: WATERMAIN VALVE BOX DETAIL

DISTRICT OF WEST VANCOUVER

DATE: JAN./97	REV: 1
APPR: G.W.	DWG. NO.
DRAWN: H.B.	WWV-8
SCALE: N.T.S.	

NELSON OR ROBAR TYPE VALVE BOX

PLACE 1000mm DIA. PAD OF CONCRETE SURROUND WHEN VALVE BOX NOT IN ASPHALT OR CONCRETE

19mm THICK ASPHALTIC

150 DIA. PVC PIPE

150 PVC PIPE

65 DIA. BRASS HYDRANT OUTLET THREADED WITH BRONZE CAP

65 TO 50 DIA. ADAPTER

CONCRETE BRICKS TO SUIT

40 THICK WOODEN PLUG TO FIT

50mm AUTOMATIC DRAIN VALVE

PLACE CONCRETE THRUST BLOCK AGAINST WELL SUPPORTED FORMWORK TO PROTECT VALVE AND PIPING

CONCRETE THRUST BLOCK

WATERMAIN

2 TIE RODS 18 OR 25 DIAMETER AS SPECIFIED TO SUIT TEST PRESSURE

C.I. CAP WITH 50 DIA. TAP

DRAIN ROCK

50 DIA. GALVANIZED STEEL PIPE SCH. 40 THREADED ENDS AND GALVANIZED FITTINGS

O.D. + 150 SQUARE, 50 THICK CEDAR BETWEEN CAP AND THRUST BLOCK ON TEMPORARY INSTALLATIONS ONLY.

300

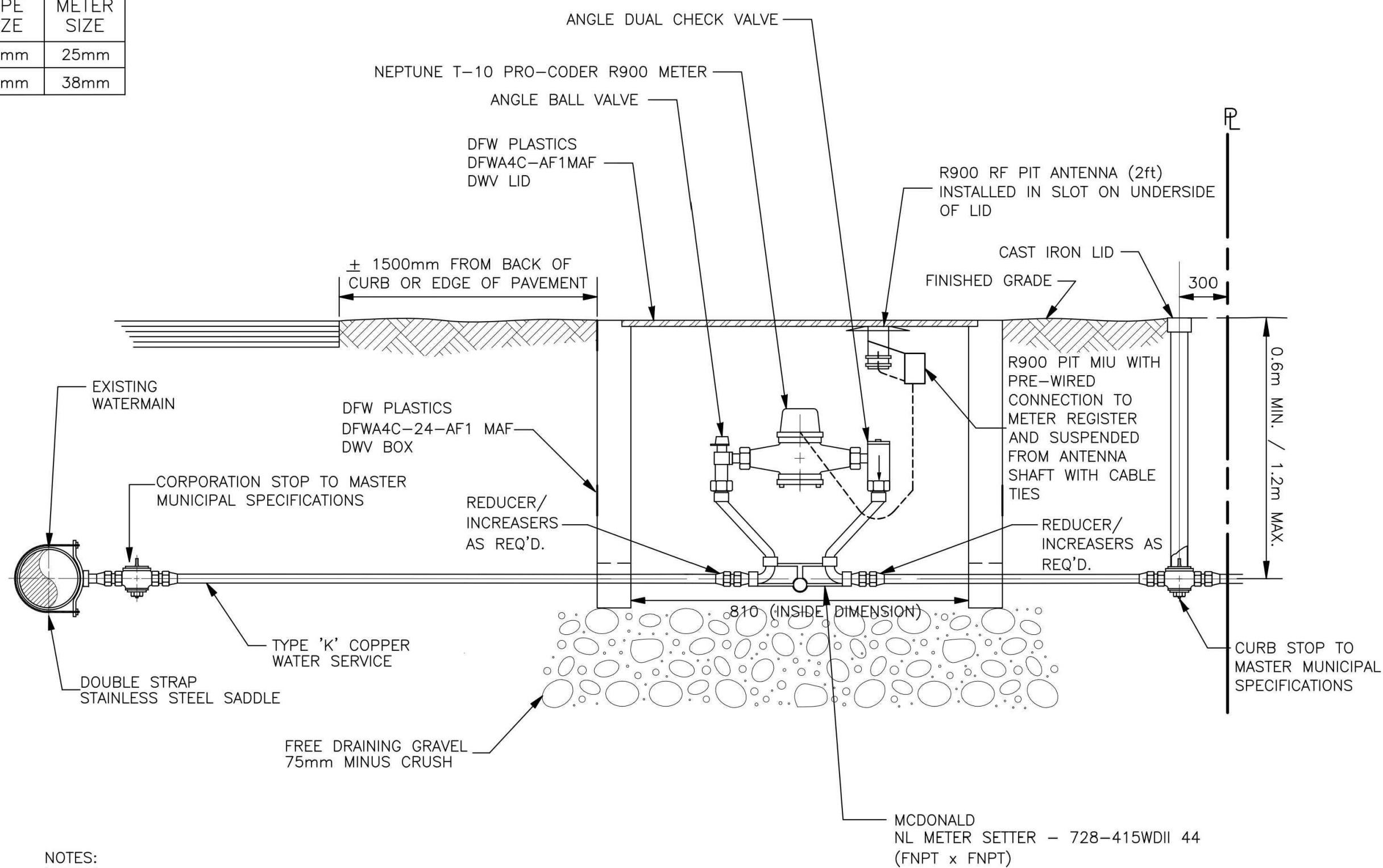
450

150

- NOT TO SCALE

DRAWING NUMBER
W8

PIPE SIZE	METER SIZE
38mm	25mm
50mm	38mm



- | | | |
|--|---------------|---------------------------|
| TITLE: TYPICAL WATER SERVICE

DISTRICT OF WEST VANCOUVER | DATE: NOV./11 | FEB./21
REV: 6 BY: TSB |
| | DRAWN: _____ | DWG. NO. |
| | SCALE: N.T.S. | WWV-2A |
- WMETER-REV6.DWG

TYPICAL WATER SERVICE

DISTRICT OF WEST VANCOUVER

DATE: NOV./11	FEB./21
REV: 6	BY: TSB
DRAWN: _____	DWG. NO.
SCALE: N.T.S.	WWV-2A
WMETER-REV6.DWG	

STANDARD MANHOLE FRAME AND COVER MARKED "SANITARY" OR "STORM" TO SUIT

500 MAX

650

150

100 MINIMUM

600 MIN

375 MAX

150

ALL ROUND

BENCH TO CROWN OF HIGHEST PIPE

STANDARD 1050mm MANHOLE

INSIDE PIPE DIA.	INSIDE MANHOLE DIA.
450mm AND LESS	1050
525 AND 600	1200
675 AND 750	1350
900 AND 1050	1500
1200 AND OVER	RISER MANHOLE

MINIMUM 100mm BEDDING GRAVEL COMPACTED TO 95% MODIFIED PROCTOR DENSITY

MANHOLE WITH SUMP

TO MEET ASTM C-478 AND C-497 LOAD AND MANUFACTURING REQUIREMENTS

75

330

20 DIA.

330

INSERT TO BE CAST WITH PIPE

GALVANIZED LADDER RUNG TO BE CAST WITH PIPE

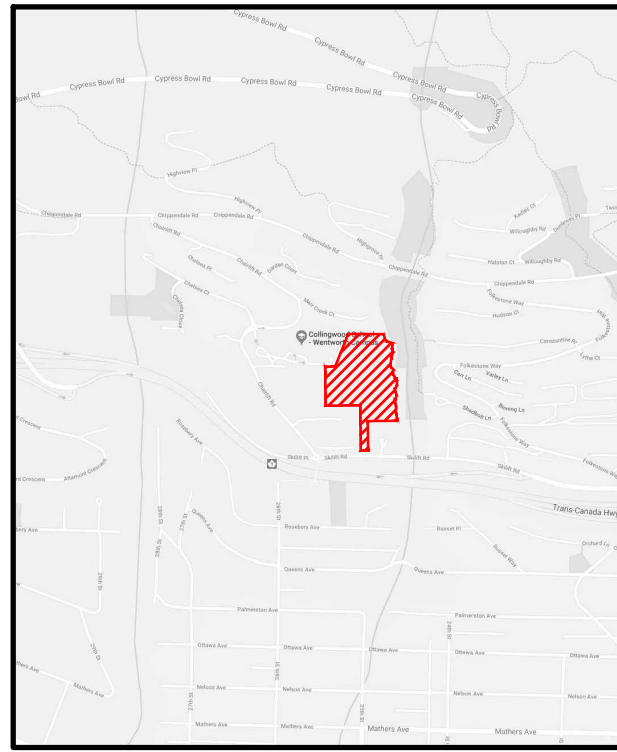
GALVANIZED, ALUMINUM OR POLY-ENCASSED LADDER RUNG

- NOT TO SCALE

STANDARD AND SUMP MANHOLES

DRAWING NUMBER:
S1

NOT FOR CONSTRUCTION



SITE MAP

DRAWING LEGEND

	EXISTING	PROSP.	TO BE REMOVED
REAL LINE ASSESSMENT			
WATERMAIN			
SEWER			
STATION			
HYDRO			
TELE			
STREET LIGHT			
RAIL			

	EXISTING	PROSP.	TO BE REMOVED
PRE-INSTANT			
WATER VALVE			
SEWER			
INSPECTION CHAMBER			
MANHOLE			
POWDER PILE			
STREET LIGHT			

approved



2025-02-24

BRIVIA GROUP

project

WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC

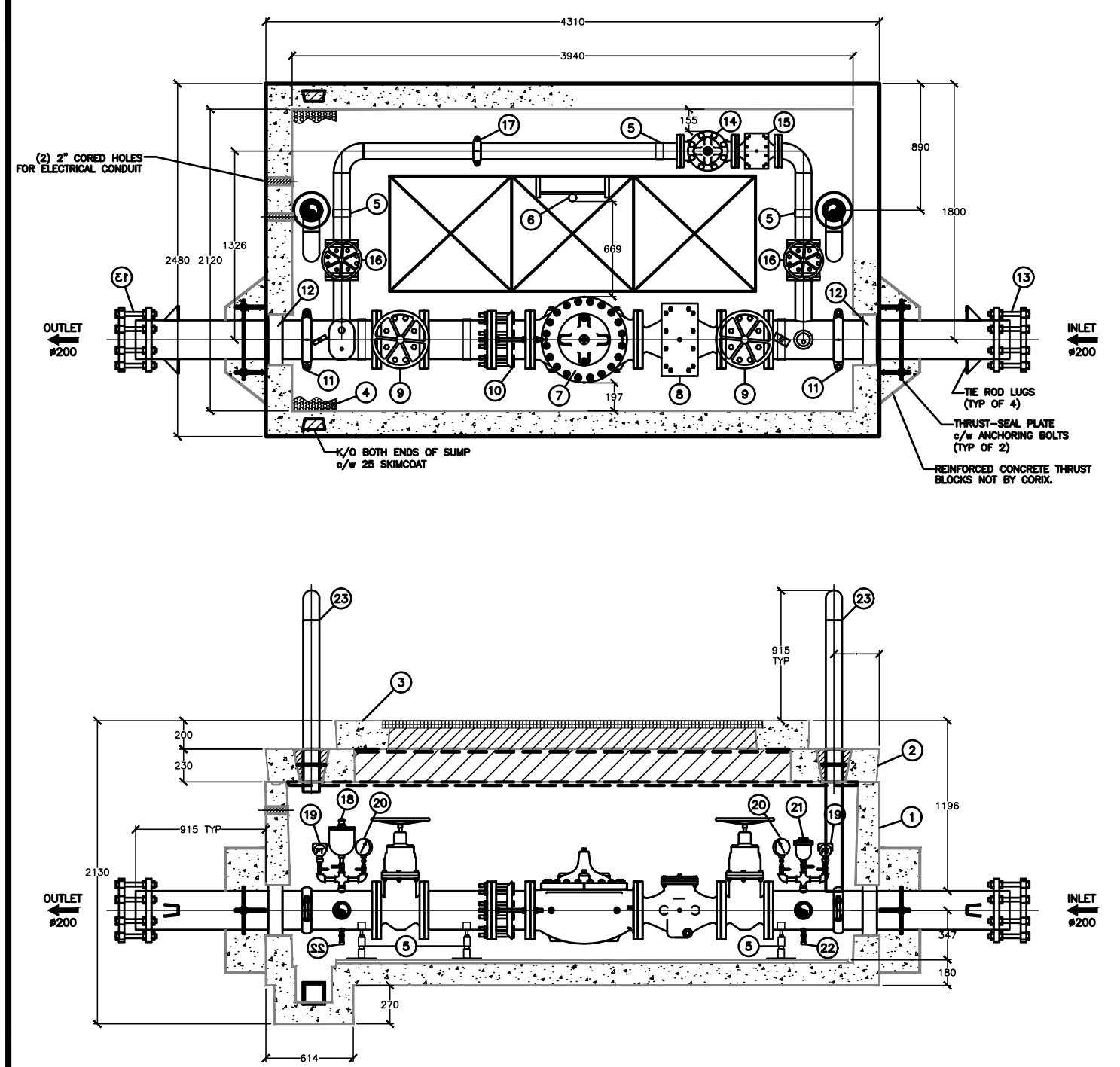
STANDARD DETAILS

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8	25-08-03	REISSUED FOR DP	
10	24-02-08	REISSUED FOR DP	
9	24-02-07	REISSUED FOR DP	
8	24-06-14	ISSUED FOR DP	
7	24-06-06	ISSUED FOR CLIENT REVIEW	
6	24-08-03	REVISED AS PER DMV COMMENTS	
16.	(s/m/d)	revision	

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engineer of record	scales	
KBH	hor:	vert:
designed by	file no.	
KBH	15171	
drawn by	drawing no.	
TJV	DET-2	
date	2021-10-03	

VIS-ENG CONSULTING LTD.



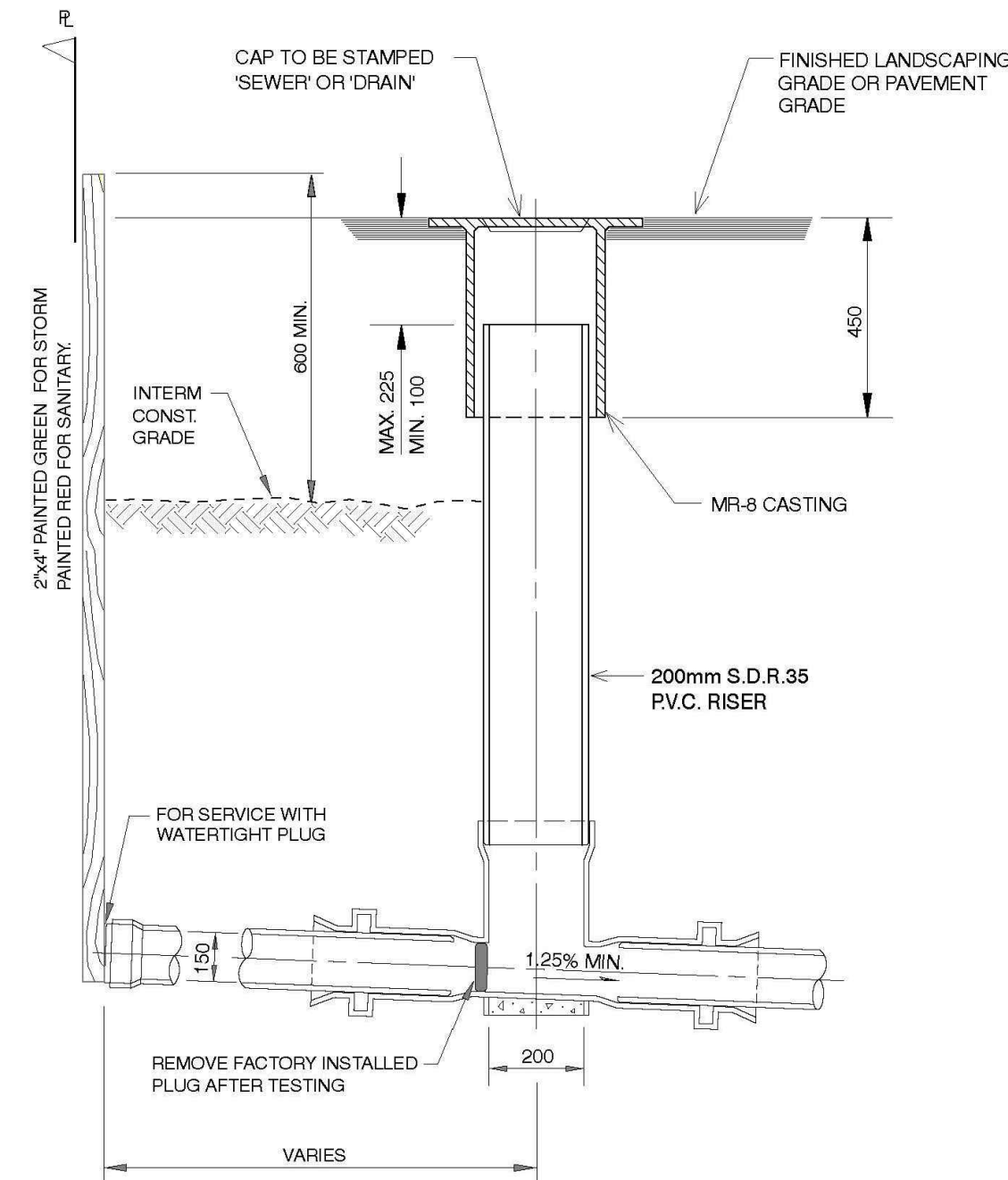
PRV DETAIL

BILL OF MATERIALS	
NO.	DESCRIPTION
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19	1 1/2\"/>
20	1 1/2\"/>
21	1 1/2\"/>
22	1 1/2\"/>
23	1 1/2\"/>

- NOTES:
1. FABRICATED STEEL PIPE & FITTINGS TO BE SCHEDULE 40, 1/2\"/>
 2. ALL 2\"/>
 3. LOADING: OFF-ROADWAY - 100 STD. LOAD RATED ESTIMATED TOTAL WEIGHT: 24,000 kg ESTIMATED HEAVIEST LIFT: 12,000 kg
 4. DIMENSIONS IN MILLIMETER UNLESS SPECIFIED OTHERWISE.
 5. CONTRACTOR TO COORDINATE BACKFILL WITH A/S STAFF, SHUT DOWN TO BE MAX 4800.
 6. CONTRACTOR TO INSTALL FLOW DIVERSION.
 7. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW PRIOR TO ORDERING AS PER CONTRACT DOCUMENTS.

scale
NTS

drawing no.
-



TITLE: STORM DRAIN / SANITARY SEWER INSPECTION CHAMBER

DISTRICT OF WEST VANCOUVER

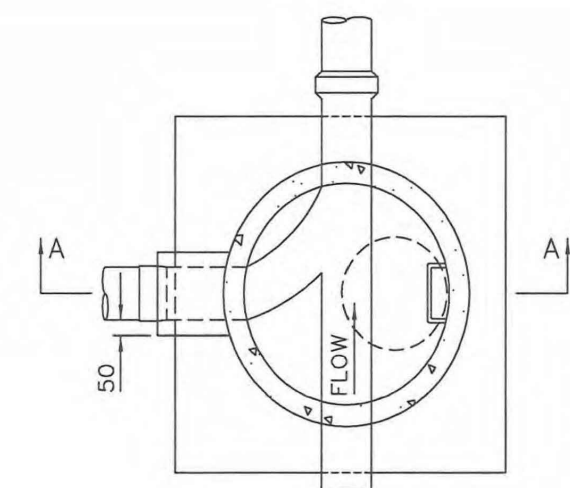
DATE: JUL-97
APPR: G.W.
DRAWN: H.B.
SCALE: 1:1.5

REV: 0
DWG. NO:
DWV-2

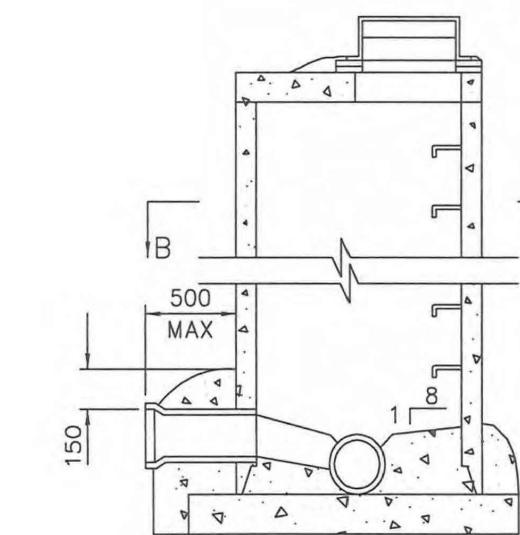
DOC #148356

MMCD

STANDARD DETAIL DRAWINGS



SECTION B-B



SECTION A-A

- NOTE: 1. THIS DRAWING SHOWS CONNECTION DETAILS ONLY, REFER TO DRAWING S1 FOR ALL OTHER DETAILS PERTAINING TO MANHOLE REQUIREMENTS AND INSTALLATION.
2. REFER TO CONTRACT DRAWINGS, SECTION 33 44 01 FOR DETAILED SPECIFICATIONS.

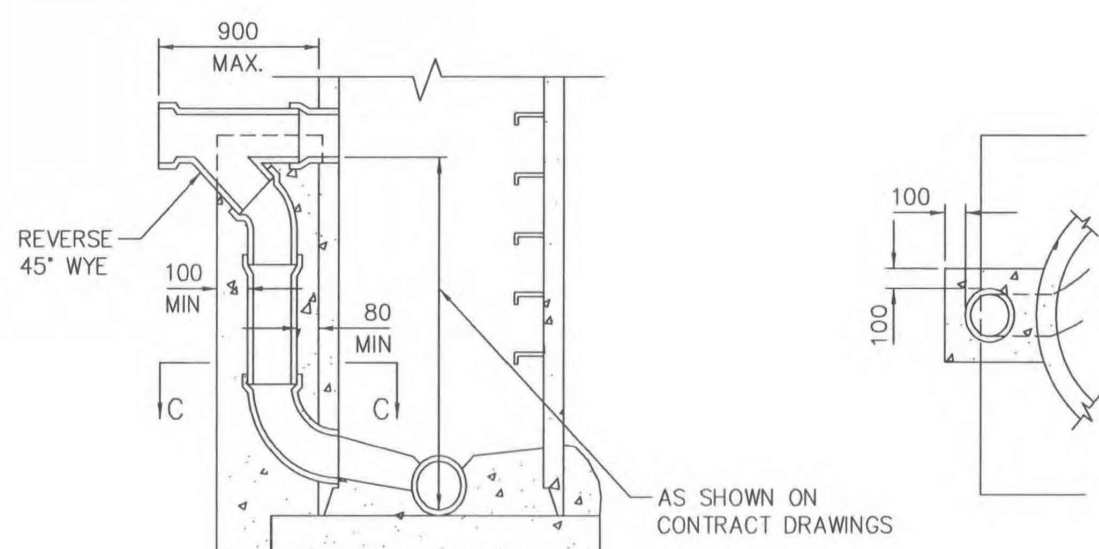
NOT TO SCALE

STANDARD MANHOLE CONNECTION DETAILS

DRAWING NUMBER:
S2

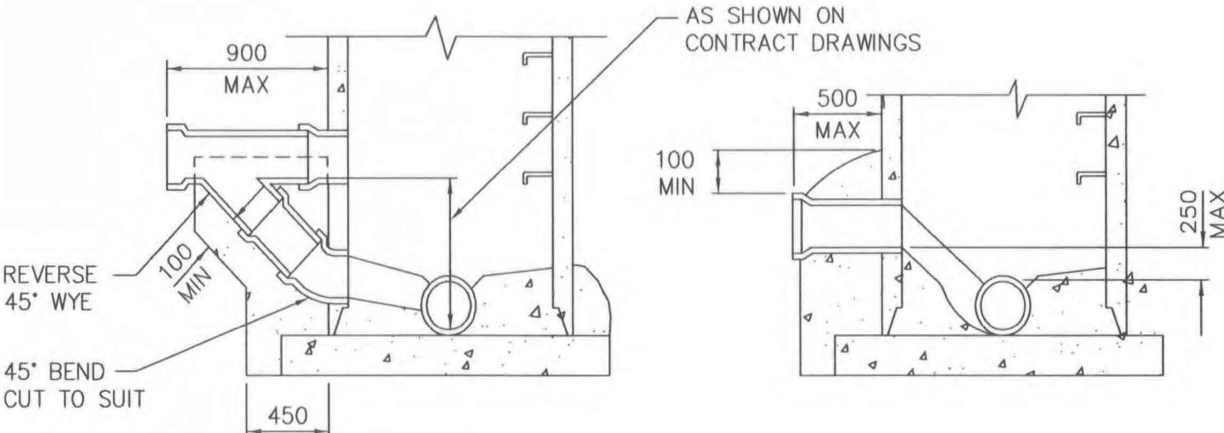
MMCD

STANDARD DETAIL DRAWINGS



OUTSIDE DROP TYPE

SECTION C-C



OUTSIDE RAMP TYPE

INSIDE RAMP TYPE

- NOTE: 1. THIS DRAWING SHOWS CONNECTION DETAILS ONLY, REFER TO DRAWING S1 FOR ALL OTHER DETAILS PERTAINING TO MANHOLE REQUIREMENTS AND INSTALLATION.
2. REFER TO CONTRACT DRAWINGS, SECTION 33 44 01 FOR DETAILED SPECIFICATIONS.

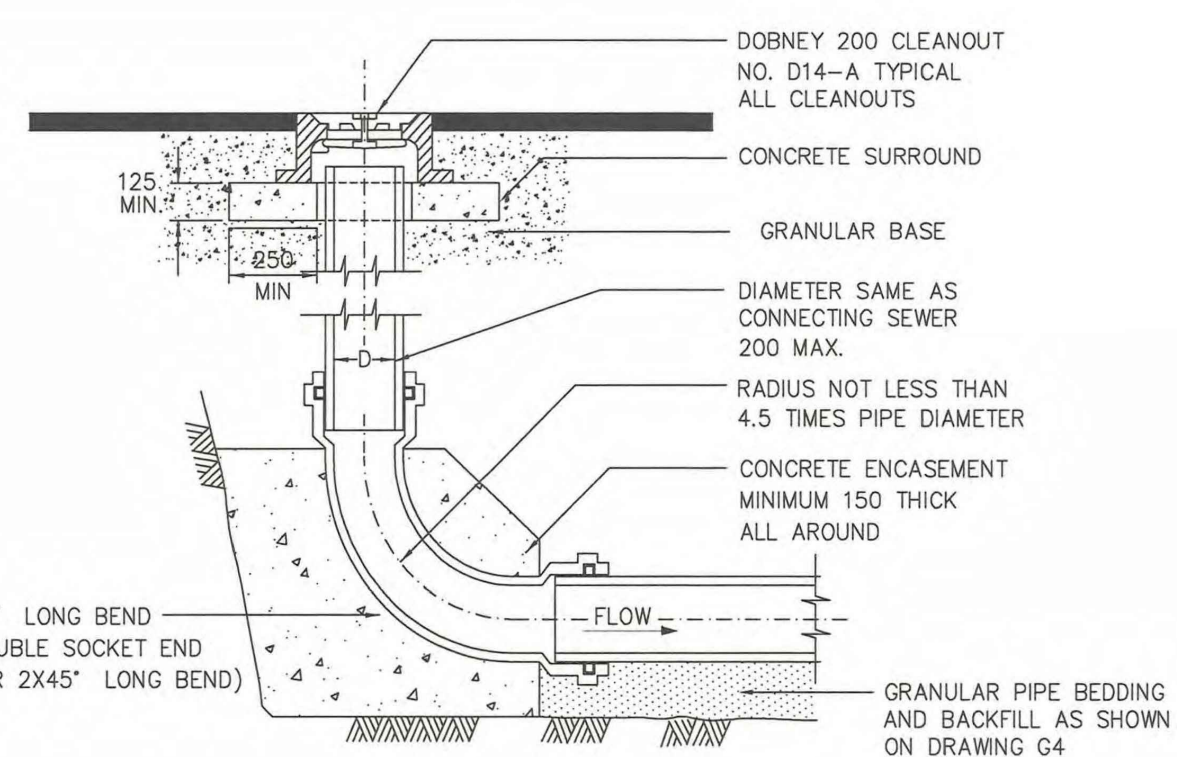
NOT TO SCALE

MANHOLE CONNECTION DETAILS –
DROP AND RAMP TYPE

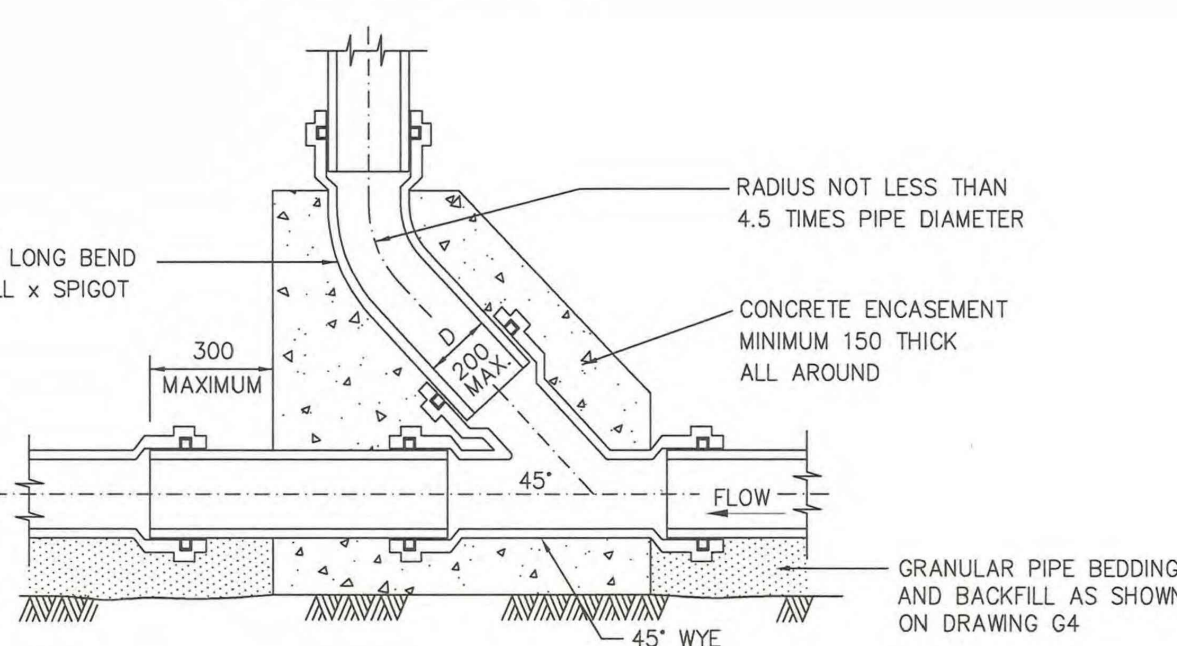
DRAWING NUMBER:
S3

MMCD

STANDARD DETAIL DRAWINGS



TERMINAL CLEANOUT



MIDBLOCK CLEANOUT

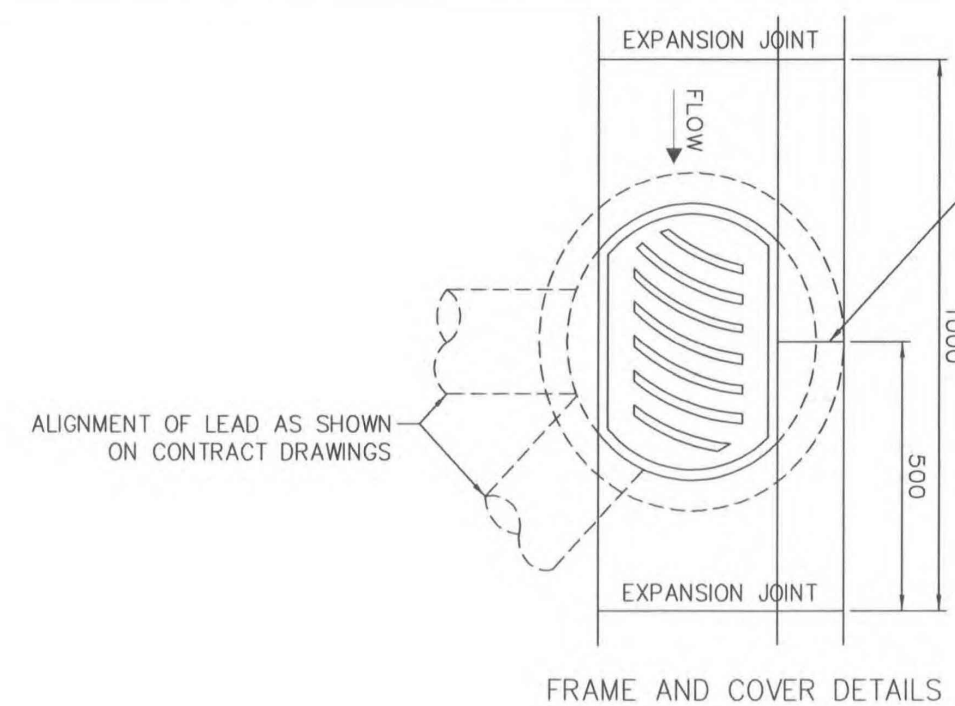
- NOTE: 1. ALL PIPE FITTINGS PVC DR28 c/w GASKETS
- NOT TO SCALE

SEWER CLEANOUT

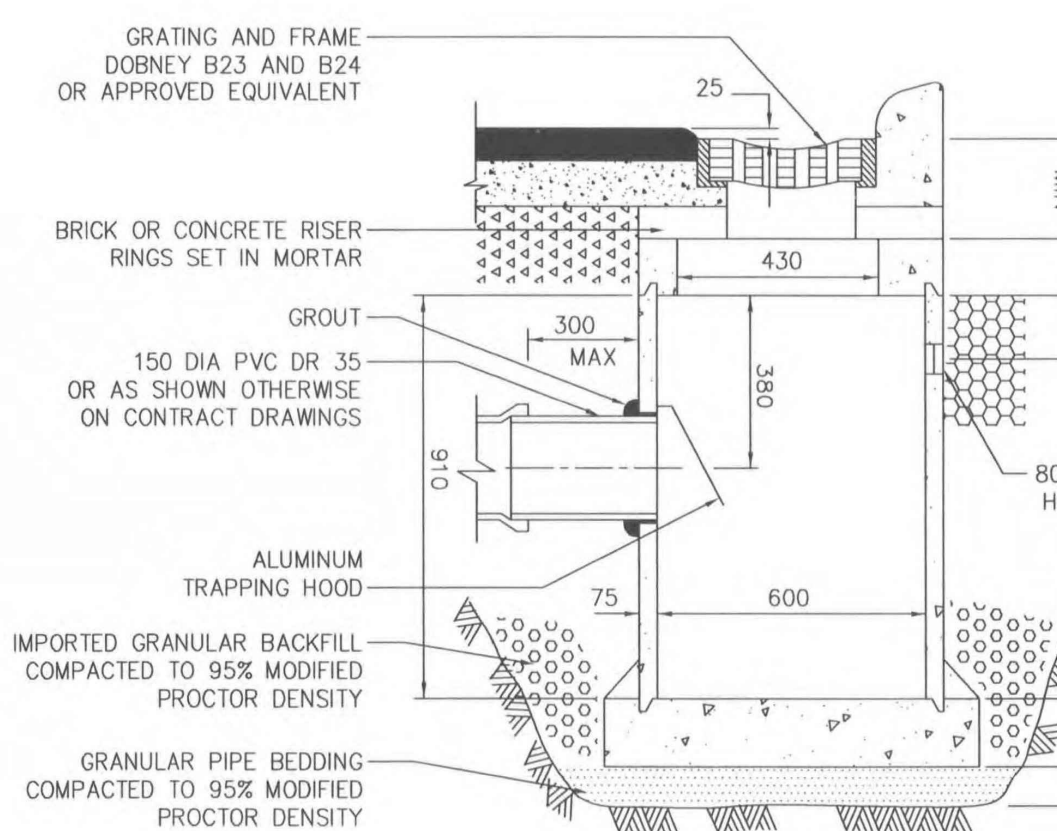
DRAWING NUMBER:
S6

MMCD

STANDARD DETAIL DRAWINGS



FRAME AND COVER DETAILS



STANDARD CATCHBASIN

- NOTE: 1. PRECAST UNITS c/w BASE, APPROVED BY CONTRACT ADMINISTRATOR, ARE ACCEPTABLE.
2. REFER TO CONTRACT DRAWINGS, SECTION 33 44 01 FOR DETAILED SPECIFICATIONS.

NOT TO SCALE

TOP INLET CATCHBASIN

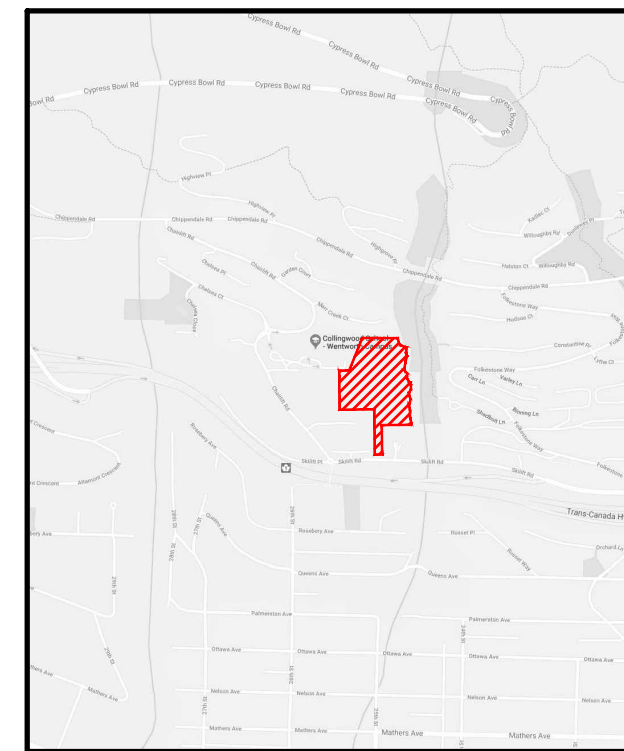
DRAWING NUMBER:
S11

NOT FOR CONSTRUCTION

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CIVIL ENGINEERING & PROJECT MANAGEMENT
#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC V7M 1A5
PHONE: 604-278-4402 WEB: VIS-ENG.ca

PERMIT TO PRACTICE # 1005639

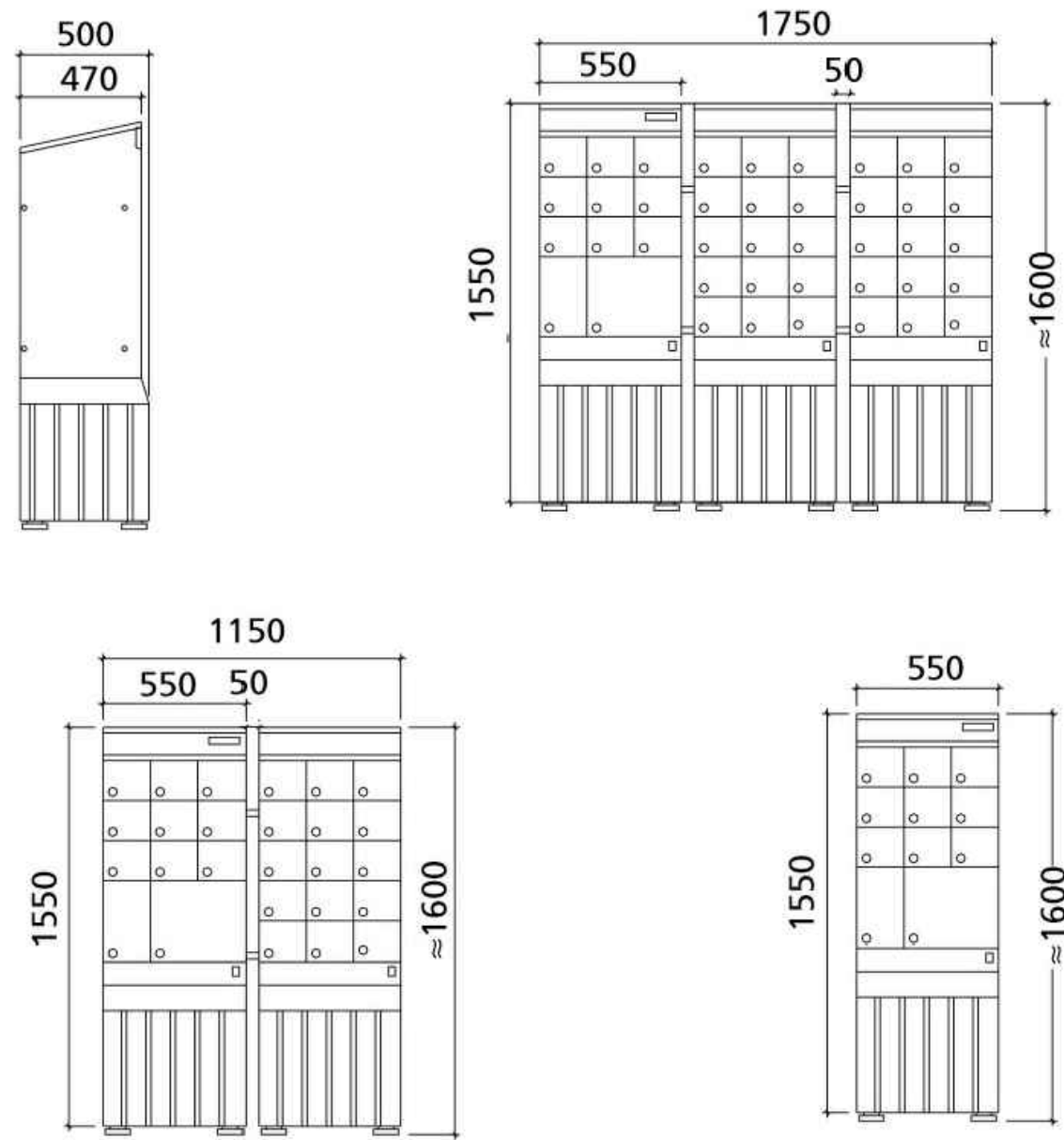


SITE MAP

DRAWING LEGEND

LEGAL LINE	EXISTING	PREP.	TO BE REMOVED
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VIS-ENG CONSULTING LTD.

DIMENSIONS
COMMUNITY MAIL BOX ON PLASTIC BASE
BOÎTES POSTALES COMMUNAUTAIRES SUR SOCLE

SUPER MAILBOX DETAIL

scale
drawing no. NTS

VIS-ENG CONSULTING LTD.

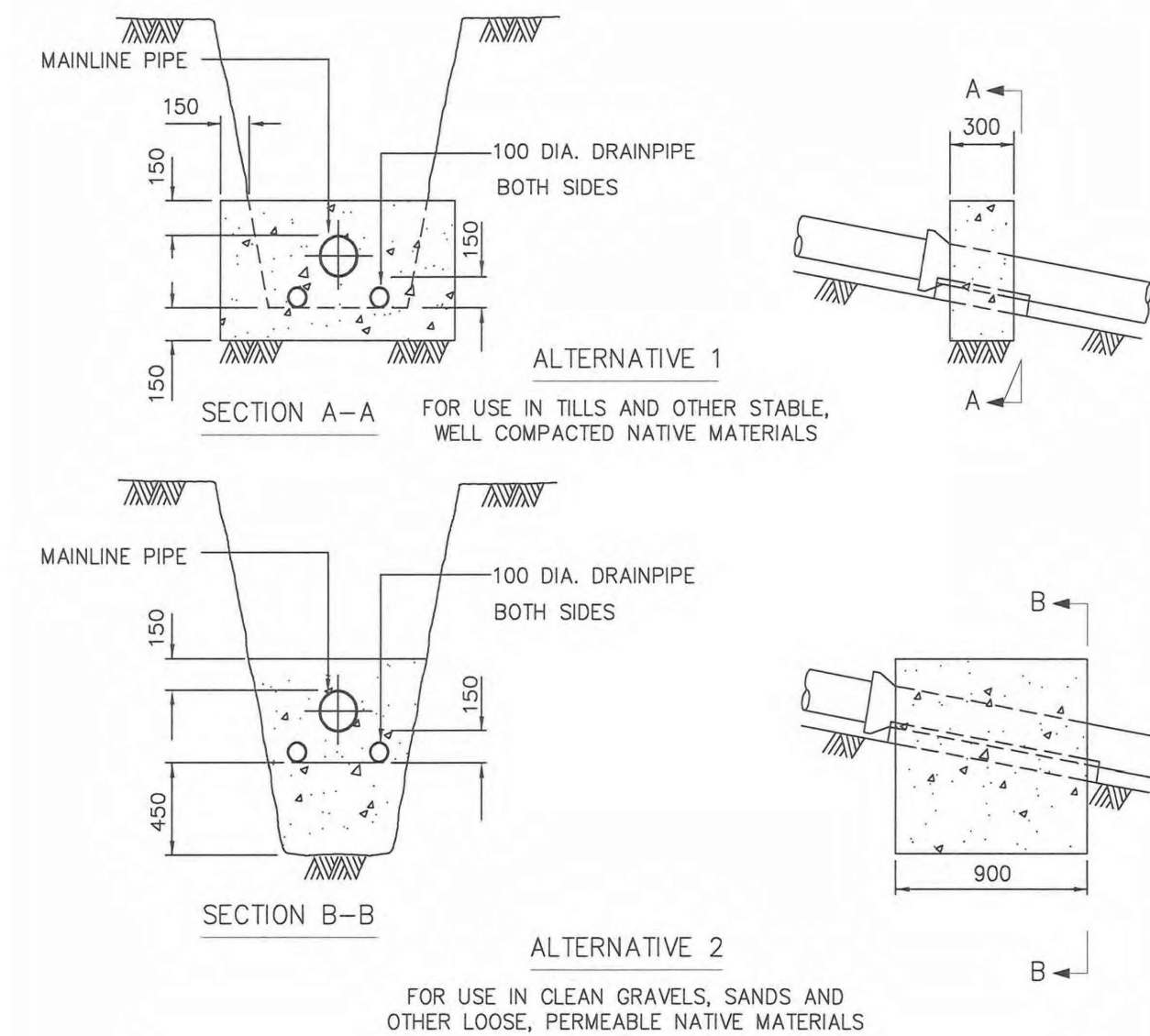


SKETCH - FILL LOCATION

scale
drawing no. NTS

MMCD

STANDARD DETAIL DRAWINGS



MAXIMUM SPACING OF ANCHOR BLOCKS (SEE NOTE 4)			
SANITARY AND STORM GRAVITY SEWERS		WATERMAINS AND FORCEMAINS	
SLOPE	MAX. SPACING	SLOPE	MAX. SPACING
15% - 20%	25m	10% OR GREATER	10m
20% - 35%	20m		
35% - 50%	15m		
50% - OVER	10m		

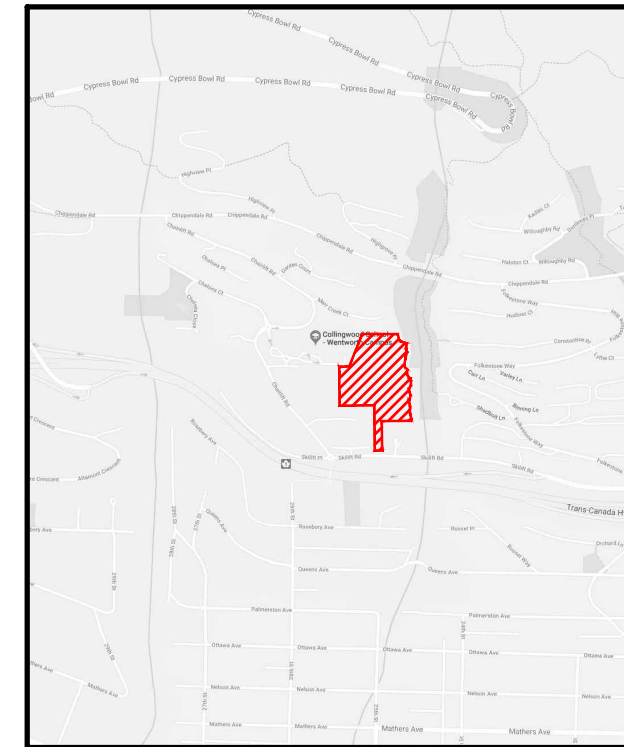
- NOTE: 1. APPLICABLE TO ALL PIPE MATERIALS.
2. USE ALTERNATIVES 1 OR 2 AS SPECIFIED ON CONTRACT DRAWINGS.
3. USE 20 MPa CONCRETE UNLESS SPECIFIED OTHERWISE ON CONTRACT DRAWINGS.
4. REFER TO CONTRACT DRAWINGS FOR SPECIFIED SPACING IF OTHER THAN MAXIMUM SHOWN IN TABLE.
- NOT TO SCALE

PIPE ANCHOR BLOCKS

DRAWING NUMBER:
G8VIS-ENG
CONSULTING LTD.

CIVIL ENGINEERING PROJECT MANAGEMENT
#303 - 267 ESPLANADE WEST, NORTH VANCOUVER, BC V7M 1A5
PHONE: 604-278-4402 WEB: VIS-ENG.ca

PERMIT TO PRACTICE # 1005639



SITE MAP

DRAWING LEGEND

	EXISTING	PREP.	TO BE REMOVED
LEGAL LINE	---	---	---
EXISTING	---	---	---
PREP.	---	---	---
TO BE REMOVED	---	---	---
FREE HYDRANT	---	---	---
GATE VALVE	---	---	---
REDUCER	---	---	---
INSPECTION CHAMBER	---	---	---
CATCHER (ST/50)	---	---	---
MANHOLE	---	---	---
POWER POLE	---	---	---
STREETLIGHT	---	---	---



client
BRIVIA GROUP

project
**WENTWORTH COLLINGWOOD
WEST VANCOUVER, BC**

STANDARD DETAILS

no.	q/m/d	revision	chk'd
1	25-02-03	REISSUED FOR DP	CLW
2	25-09-03	REISSUED FOR DP	CLW
3	24-02-08	REISSUED FOR DP	CLW
4	24-12-07	REISSUED FOR DP	CLW
5	24-04-14	ISSUED FOR DP	CLW
6	24-08-06	ISSUED FOR CLIENT REVIEW	AG
7	24-08-03	REVISED AS PER DMY COMMENTS	DW

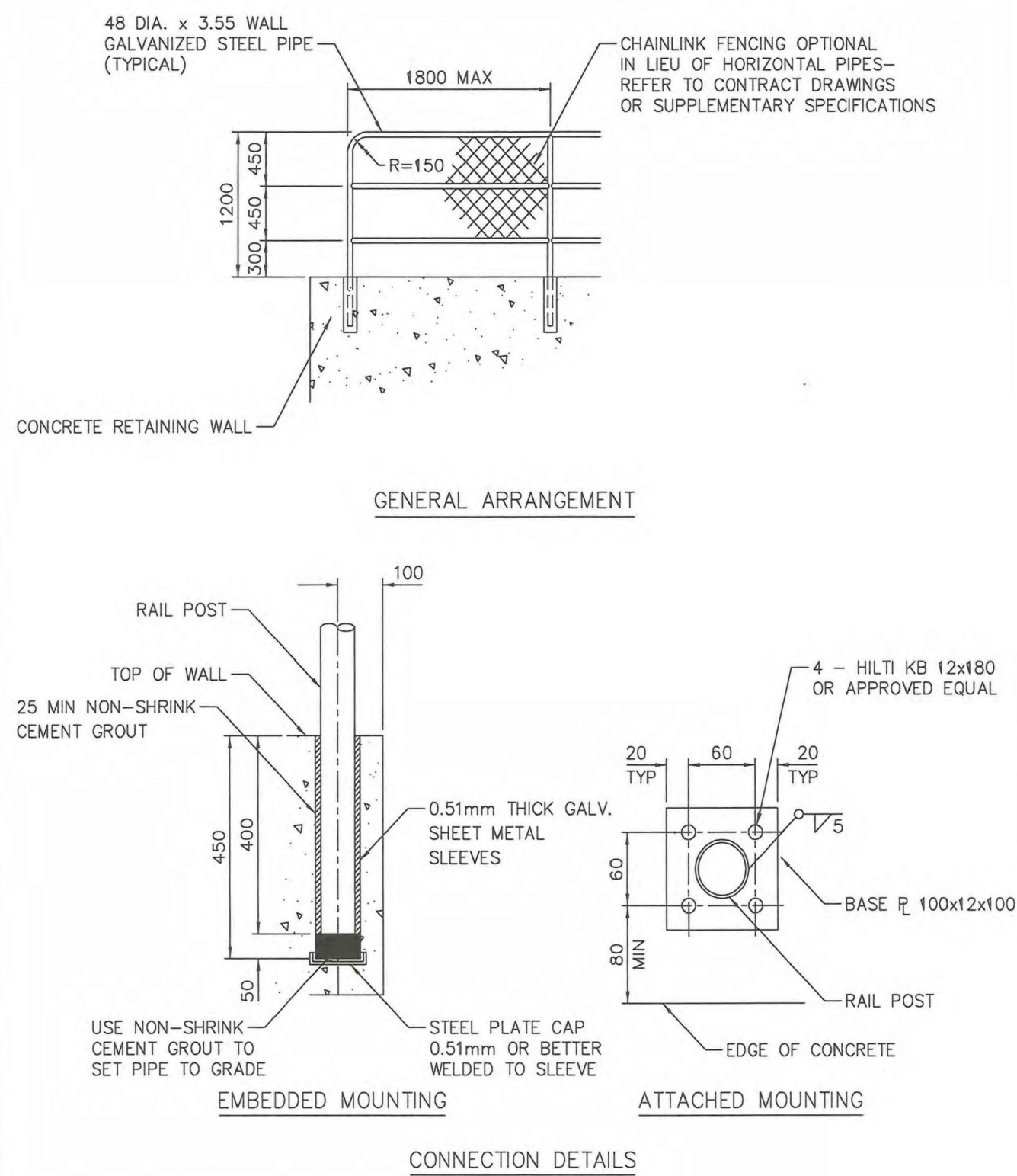
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engineer of record	KBH	scale	-	
designed by	KBH	hor.		vert.
drawn by	TJV	file no.	15171	
date	2024-10-03	drawing no.	DET-4	

NOT FOR CONSTRUCTION

MMCD

STANDARD DETAIL DRAWINGS



- NOTE: 1. ALL JOINTS MITRED, WELDED ALL AROUND AND SMOOTHED.
2. ALL COMPONENTS TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
3. REFER TO CONTRACT DRAWINGS, SECTION 32 31 13 FOR DETAILED SPECIFICATIONS.

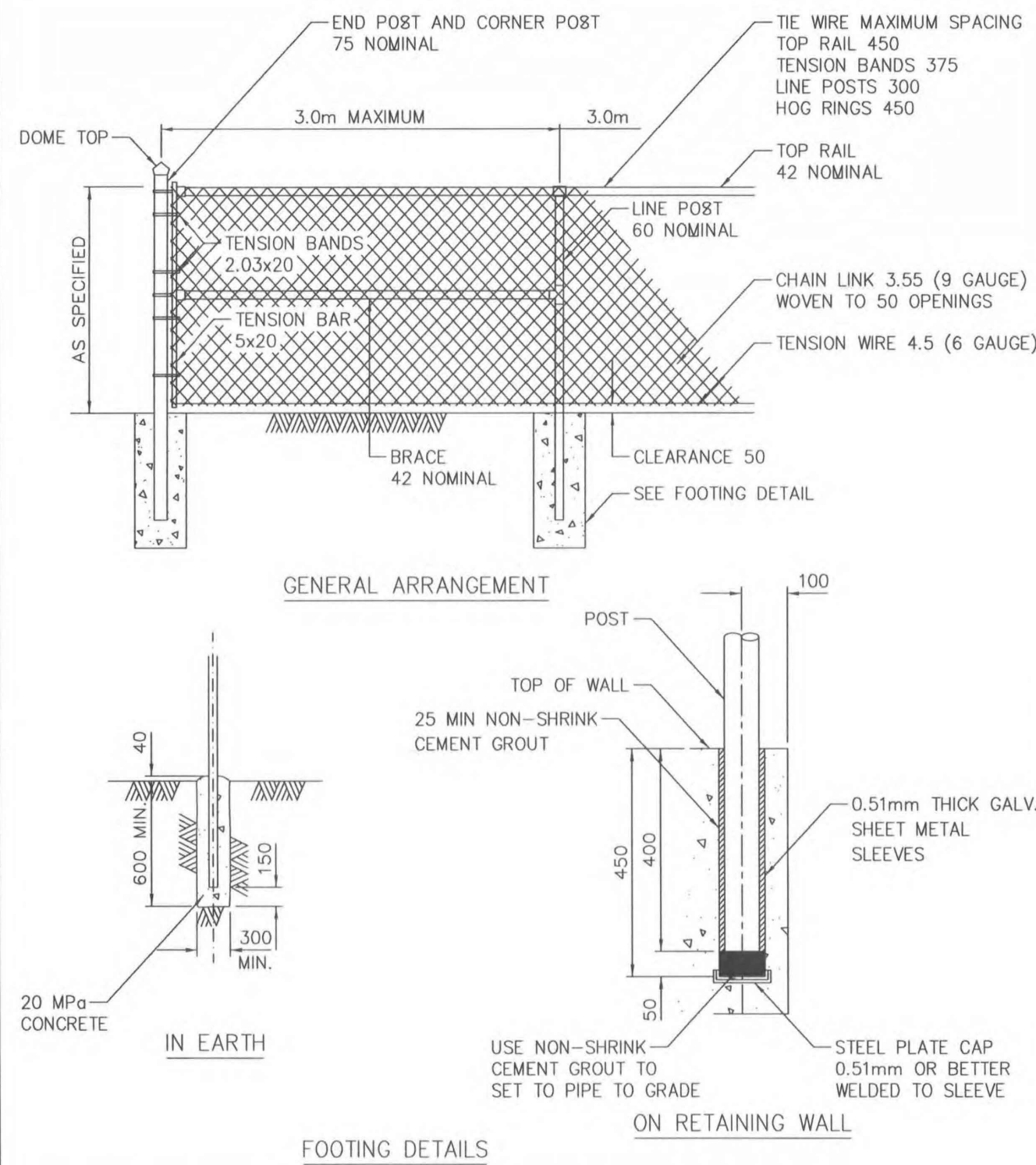
NOT TO SCALE

HANDRAIL ON CONCRETE RETAINING WALL

DRAWING NUMBER:
C14

MMCD

STANDARD DETAIL DRAWINGS



- NOTE: 1. FOR PURPOSE OF CLARITY, DETAILS OF TENSION BARS, TENSION BANDS AND MISCELLANEOUS FITTINGS NOT SHOWN ON DRAWING.
2. ALL RAILS AND POSTS SCHEDULE 40 PIPE
3. GATE POSTS AS SPECIFIED (89 NOMINAL MINIMUM).
4. REFER TO CONTRACT DRAWINGS, SECTIONS 32 31 13 FOR DETAILED SPECIFICATIONS.

NOT TO SCALE

CHAIN LINK FENCE FOR WALKWAY

DRAWING NUMBER:
C13