

ICD TABLE				
STRUCTURE ID	ICD TYPE	INVERT (m)	100-YR HEAD (m)	100-YR PEAK FLOW (L/s)
2	152mm	N=53.11 S=52.51	3.70	92.1
RY1	TEMPEST LMF	E=54.45 W=54.45	1.14	6.1
RY3	90mm	E=55.30 W=55.30	0.71	14.0

SANITARY MANHOLE TABLE				
MANHOLE ID	SIZE (mm)	T/G ELEV (m)	INVERT (m)	PIPE DIAMETER (mm)
3	1200	56.67	E=54.07 W=54.13	E=200 W=200
5	1200	56.69	N=54.38 E=54.28 W=54.30	N=200 E=200 W=200
7	1200	55.64	W=53.78 N=53.69 S=53.69	W=200 N=250 S=250
9	1200	56.48	N=54.18 E=54.12	N=200 E=200
11	1200	56.28	E=54.34 S=54.28	E=150 S=200
13	1200	56.74	S=54.08 W=54.14	S=200 W=150
15	1200	56.52	W=53.92 E=53.91 N=53.97	W=200 E=200 N=200
17	1200	56.69	S=54.47 W=54.52	S=200 W=150
19	1200	56.75	S=54.51 E=54.45	S=150 E=200

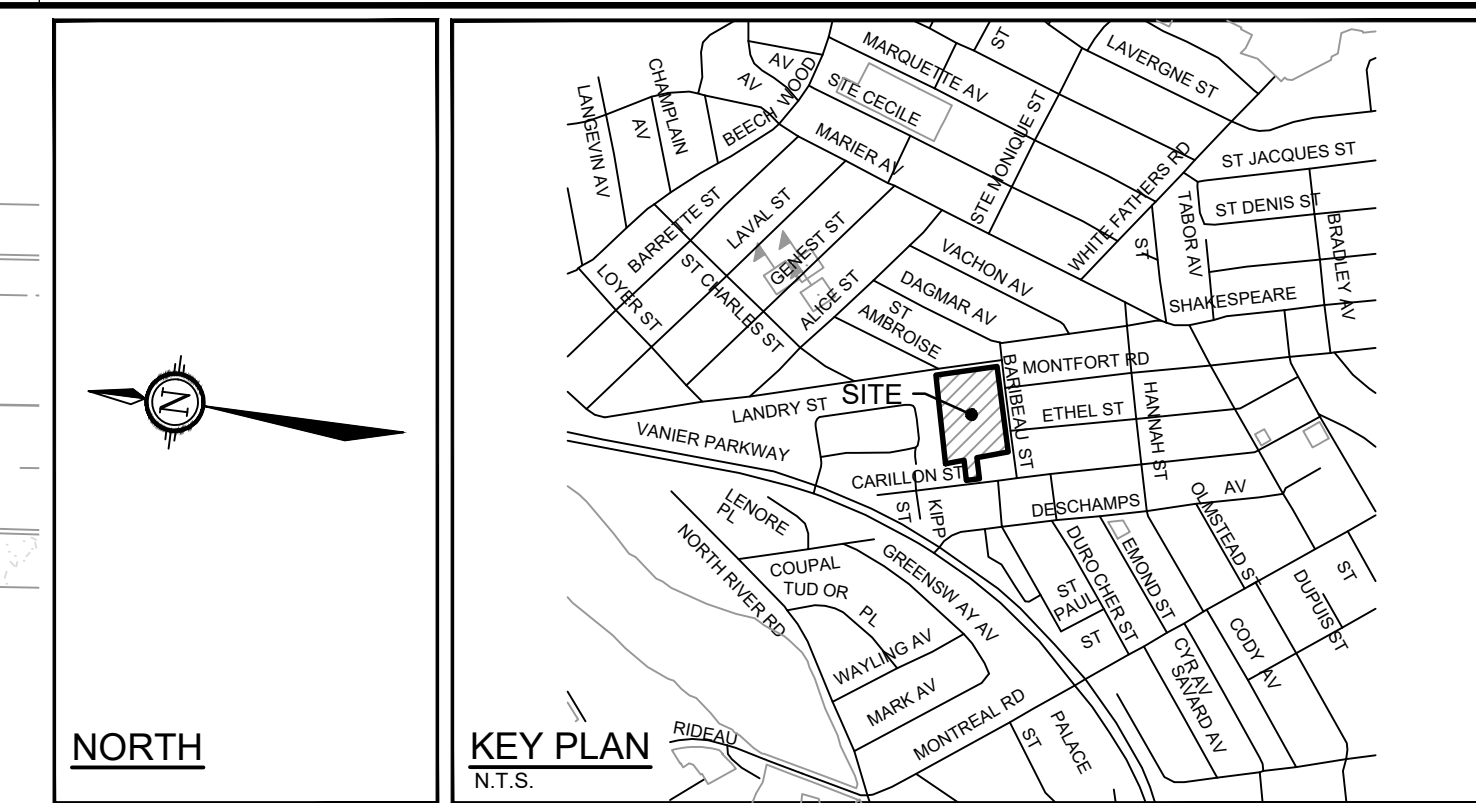
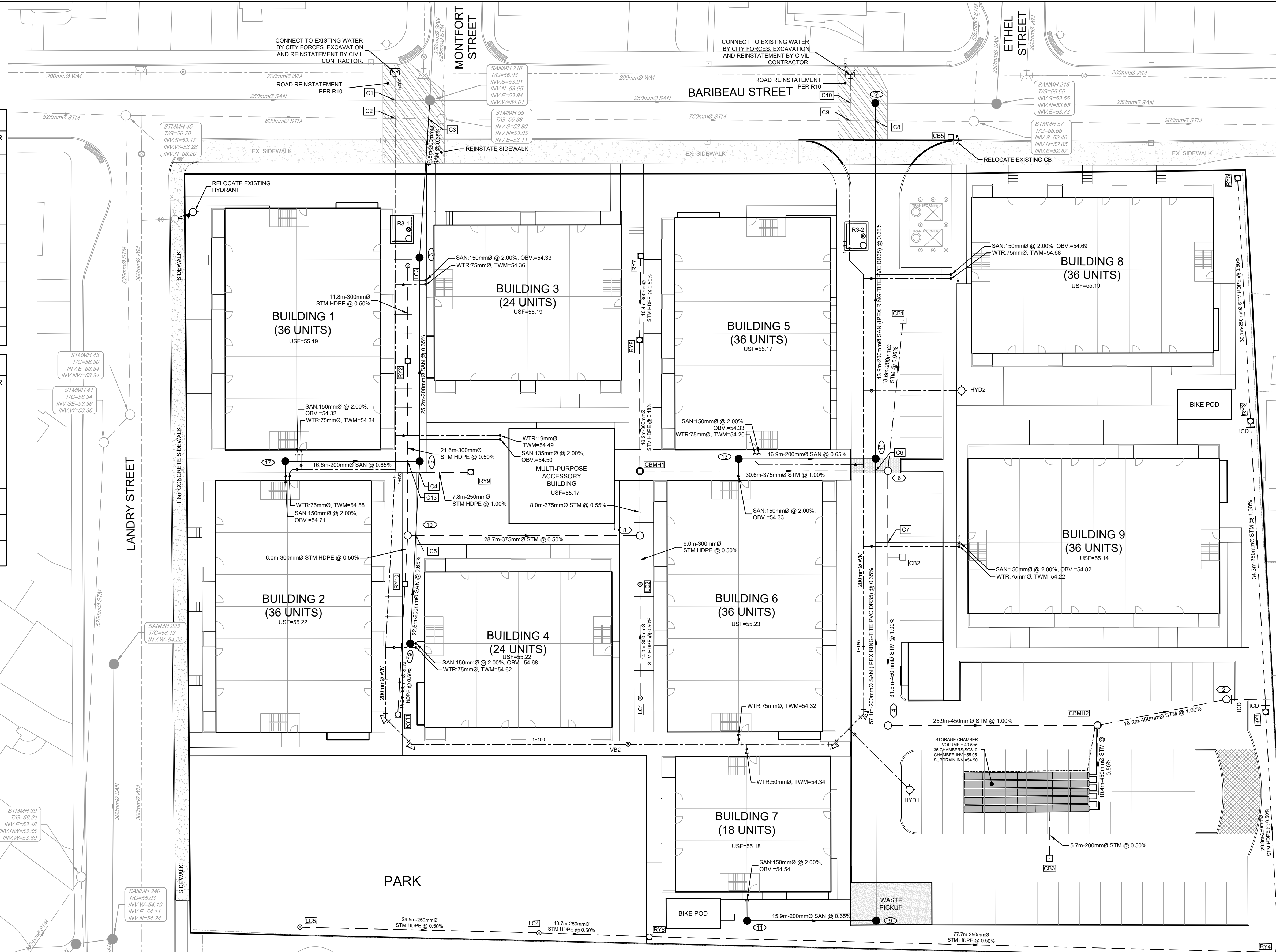
STORM MANHOLE TABLE				
MANHOLE ID	SIZE (mm)	T/G ELEV (m)	INVERT (m)	PIPE DIAMETER (mm)
2	1200	56.29	N=53.11 S=52.51	N=450 S=450
4	1200	56.44	S=53.55 E=53.58	S=450 E=450
6	1200	56.49	N=54.31 W=53.89 E=54.67	N=375 W=450 E=200
8	1200	56.66	N=55.10 E=55.09 W=55.17	N=375 E=375 W=300
10	1200	56.70	E=55.32 S=55.24 W=55.32	E=300 S=375 W=300
CBMH1	1200	56.57	W=55.05 S=54.62 E=55.12	W=375 S=375 E=300
CBMH2	1200	56.06	N=53.29 S=53.28 W=55.05	N=450 S=450 W=450

CATCHBASIN TABLE			
CB ID	T/G ELEVATION	INVERT	
CB1	56.25	54.85	
CB2	56.25	54.85	
CB3	56.06	55.28	

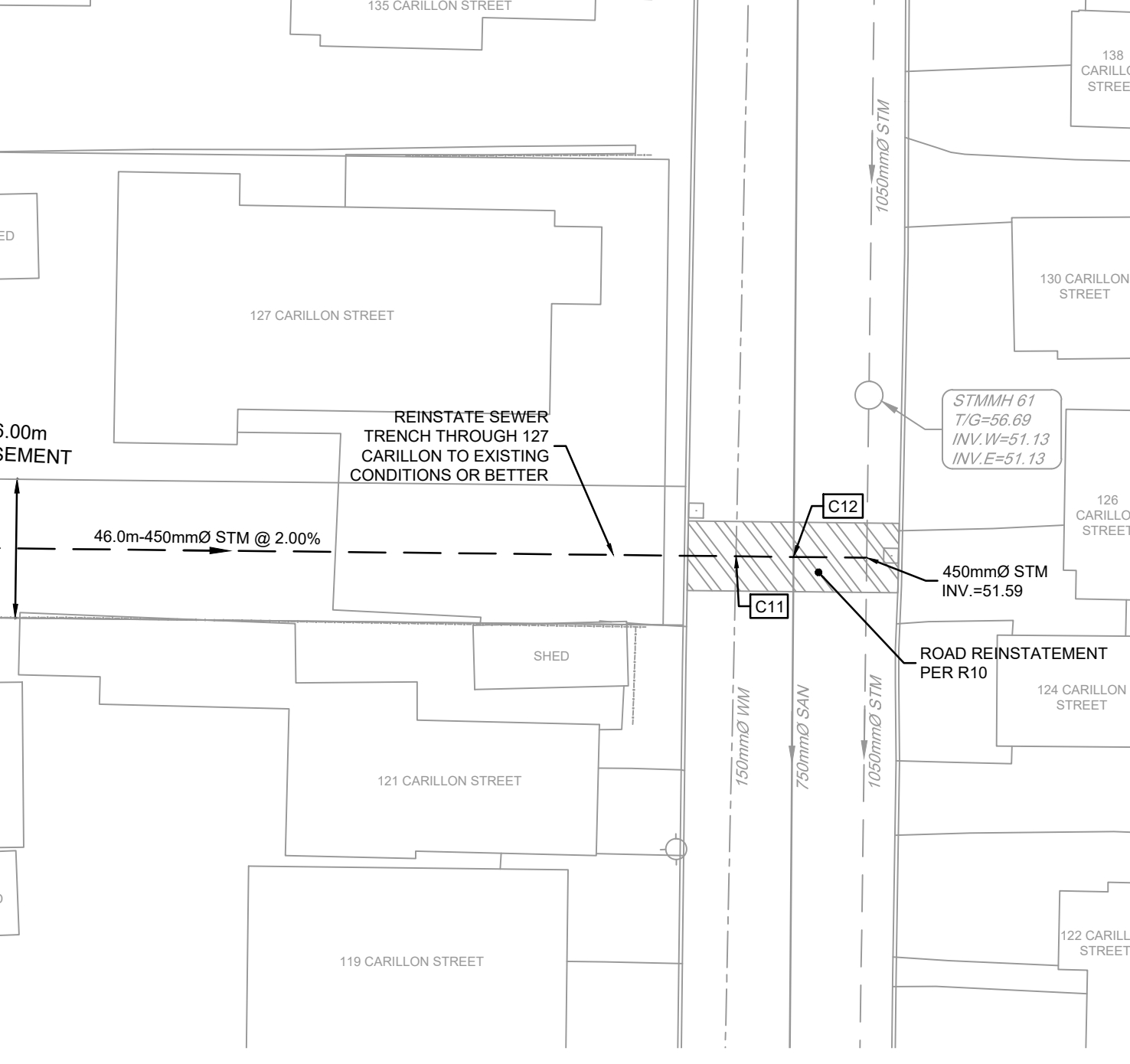
REAR YARD CATCHBASIN TABLE				
RYCB No.	T/G ELEVATION	INVERT	I.C.D.	
LC1	56.58	55.27	-	
LC2	56.57	55.20	-	
LC3	56.55	55.49	-	
LC4	55.69	55.09	-	
LC5	55.80	55.24	-	
RY1	55.50	54.45	90mm	TEMPEST LMF
RY2	56.55	55.43	-	
RY3	55.84	55.30	90mm	
RY4	55.25	54.60	-	
RY5	56.01	55.45	-	
RY6	55.72	55.02	-	
RY7	56.56	55.26	-	
RY8	56.55	55.20	-	
RY9	56.55	55.55	-	
RY10	56.60	55.35	-	
RY11	56.60	55.43	-	

SEWER CROSSING TABLE		
LOCATION	ELEVATIONS	CLEARANCE
C1	SAN INV=53.96 WM OBV=53.46	0.50m
C2	WM INV=53.97 STM OBV=53.67	0.30m
C3	SAN INV=54.03 STM OBV=53.66	0.37m
C4	STM INV=55.48 SAN OBV=54.52	0.97m
C5	STM INV=55.24 SAN OBV=54.57	0.67m
C6	STM INV=54.32 SAN OBV=54.13	0.20m
C7	SAN INV=54.49 STM OBV=54.26	0.23m
C8	SAN INV=53.76 STM OBV=53.45	0.31m
C9	WM INV=53.75 STM OBV=53.45	0.30m
C10	SAN INV=53.69 WM OBV=53.19	0.50m
C11	WM INV=53.90 STM OBV=52.16	1.74m
C12	SAN INV=52.63 STM OBV=52.11	0.52m
C13	STM INV=55.36 SAN OBV=54.57	0.79m

WATERMAIN TABLE			
Station	PROPOSED GROUND ELEVATION	TOP OF WATERMAIN	DESCRIPTION
1+000.00	56.04	53.64	200 x 200 TEE
1+019.33	56.70	54.30	R3-1
1+026.16	56.75	54.36	WTR SERVICE
1+044.81	56.77	54.49	WTR SERVICE
1+049.60	56.76	54.36	WTR SERVICE
1+071.02	56.78	54.38	WTR SERVICE
1+079.75	56.72	54.32	H. BEND
1+084.33	56.75	54.35	H. BEND
1+111.03	56.74	54.34	VB2
1+124.70	56.73	54.33	WTR SERVICE
1+125.70	56.72	54.34	WTR SERVICE
1+138.39	56.65	54.25	H. BEND
1+139.03	56.71	54.31	HYD1 TEE
1+141.67	56.51	54.11	H. BEND
1+162.35	56.52	54.22	WTR SERVICE
1+172.43	56.56	54.21	WTR SERVICE
1+181.58	56.53	54.13	HYD2 TEE
1+195.43	56.56	54.16	WTR SERVICE
1+201.39	56.65	54.25	R3-2
1+221.32	55.70	53.30	200 x 200 TEE



- GENERAL NOTES:**
- DIMENSIONS AND LAYOUT INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE ORIGINAL TOPOGRAPHY AND GROUND ELEVATIONS, SERVICING AND SURVEY INFORMATION SHOWN ON THIS PLAN ARE SUPPLIED FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF ALL INFORMATION OBTAINED FROM THIS PLAN.
 - CO-ORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 - BEFORE COMMENCING CONSTRUCTION, PROVIDE PROOF OF COMPREHENSIVE ALL RISK AND OPERATIONAL LIABILITY INSURANCE INCLUDING BLASTING. INSURANCE POLICY TO NAME THE OWNER, ENGINEER AND THE CITY AS CO-INSURED.
 - CONNECT TO EXISTING SYSTEMS AS DETAILLED, INCLUDING ALL RESTORATION WORK NECESSARY TO REINSTATE SURFACES TO EXISTING CONDITIONS OR BETTER.
 - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS.
 - OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS BEFORE COMMENCING CONSTRUCTION.
 - RESTORE ALL TRENCHES AND SURFACE FEATURES TO EXISTING CONDITIONS OR BETTER AND TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.
 - REMOVE FROM SITE ALL DEBRIS AND EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
 - ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
 - REFER TO GEOTECHNICAL INVESTIGATION PA#278-1 (DATED JULY 15, 2019, PREPARED BY PATERSON GROUP INC. FOR SUBSURFACE CONDITIONS AND CONSTRUCTION RECOMMENDATIONS).
 - PERFORATED PIPE SUB-DRAINS TO BE PROVIDED AT SUBGRADE LEVEL EXTENDING FROM THE ROADSIDE CATCHBASIN FOR A DISTANCE OF 3.0m, PARALLEL TO THE CURB IN TWO DIRECTIONS.

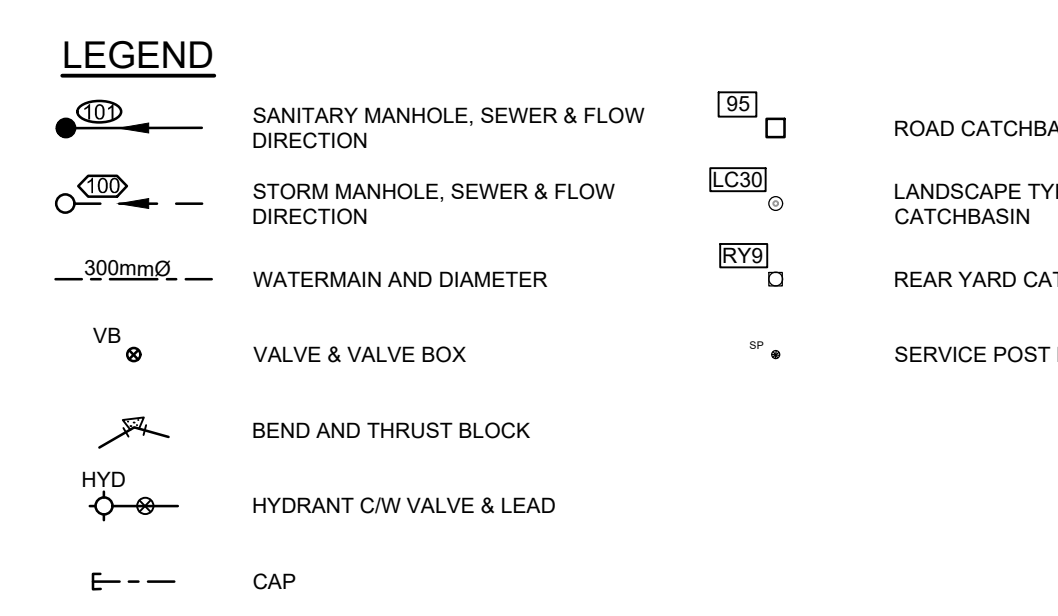


- SEWER NOTES:**
- SPECIFICATIONS:

ITEM	SPEC. No.	REFERENCE
CATCHBASIN (600x600mm)	705.010	OPSD
CATCHBASIN MANHOLE (1200)	701.010	OPSD
STORM / SANITARY MANHOLE (1200)	701.010	OPSD
ROADSIDE CB. FRAME & COVER	S2 & S19	CITY OF OTTAWA
CBMH FRAME & COVER	S25 & S28	CITY OF OTTAWA
STORM / SANITARY MH FRAME & COVER	S24 / S24 & S25	CITY OF OTTAWA
STORM SEWER	PVC DR 35 OR CONC.	(CLASS SPECIFIED ON PROFILE DRAWINGS)
SANITARY SEWER	PEX RING-TITE PVC DR 35	
CATCHBASIN LEAD	PVC DR 35	
 - INSULATE ALL PIPES (SAN/STM) THAT HAVE LESS THAN 1.5m COVER WITH 50mmX1200mm HI-40 INSULATION. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
 - SERVICES ARE TO BE CONSTRUCTED TO PROPERTY LINE AT MINIMUM SLOPE OF 1.0% (2.0% IS PREFERRED).
 - PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
 - SEWER SERVICE CONNECTIONS PER CITY OF OTTAWA DETAILS S11 AND S11.1.
 - THE SITE SERVICING CONTRACTOR SHALL PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SERVICES. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPS 410.07.16 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.
 - STORM MANHOLES AND CBMHs SHALL HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED.
 - CONTRACTOR TO TELEVIEW (CCTV) ALL PROPOSED SEWERS, 200mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

- WATERMAIN NOTES:**
- GENERAL:

ITEM	DETAIL No.	REFERENCE
WATERMAIN TRENCHING	W17	CITY OF OTTAWA
THERMAL INSULATION IN SHALLOW TRENCHES	W22	CITY OF OTTAWA
WATERMAIN CROSSING BELOW SEWER / OVER SEWER	W25 / W25.2	CITY OF OTTAWA
 - THE WATERMAIN SHALL BE PVC DR 18 IN ACCORDANCE WITH MATERIAL SPECIFICATION MW-18.1, UNLESS OTHERWISE INDICATED.
 - SUPPLY AND CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMANS BY THE CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS.
 - WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.
 - PROVIDE MINIMUM 0.50m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.



NOTES:
 RIDEAU RIVER REGULATORY FLOOD LEVEL (REDUCED FLOOD RISK) = 56.44
 ALL BUILDINGS ARE SLAB-ON-GRADE

NOTE:
 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	REVISION	DATE	BY	No.	REVISION	DATE	BY
16.	SITE PLAN UPDATE	OCT 9/24	MAB	8.	CITY SUBMISSION	OCT 21/21	MAB
15.	CONCEPT UPDATE	JUN 27/24	MAB	7.	CITY SUBMISSION	AUG 3/21	MAB
14.	MINOR UPDATES TO BLOCKS 1-4, 9	NOV 16/22	MAB	6.	CITY SUBMISSION	JUN 8/21	MAB
13.	USF LOWERED BLOCKS 1, 2, 3, 4 & 9	JUL 20/22	MAB	5.	CITY SUBMISSION	FEB 5/21	MAB
12.	SITE PLAN UPDATE	JUL 15/22	MAB	4.	STORM OUTLET VIA 127 CARILLION	OCT 23/20	MAB
11.	ISSUED FOR ECA	MAR 24/22	MAB	3.	SITE PLAN APPLICATION	AUG 24/20	MAB
10.	ISSUED FOR BUILDING PERMIT	MAR 2/22	MAB	2.	RVCA APPROVAL IN PRINCIPAL APPLICATION	MAY 28/20	MAB
9.	CITY SUBMISSION - PARK UPDATE	FEB 15/22	MAB	1.	ISSUED FOR RVCA REVIEW	MAR 26/20	MAB

SCALE: 1:250

FOR REVIEW ONLY

LEGEND: PROFESSIONAL ENGINEER, L.R. WILSON, 10160055, PROVINCE OF ONTARIO

LEGEND: PROFESSIONAL ENGINEER, M.A. BISSETT, PROVINCE OF ONTARIO

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CITY OF OTTAWA
 DOMINION VILLAGE - 200 BARBEAU STREET

SERVICING PLAN

PROJECT No.: 119068
 REV: REV #18
 DRAWING No.: 119068-GP