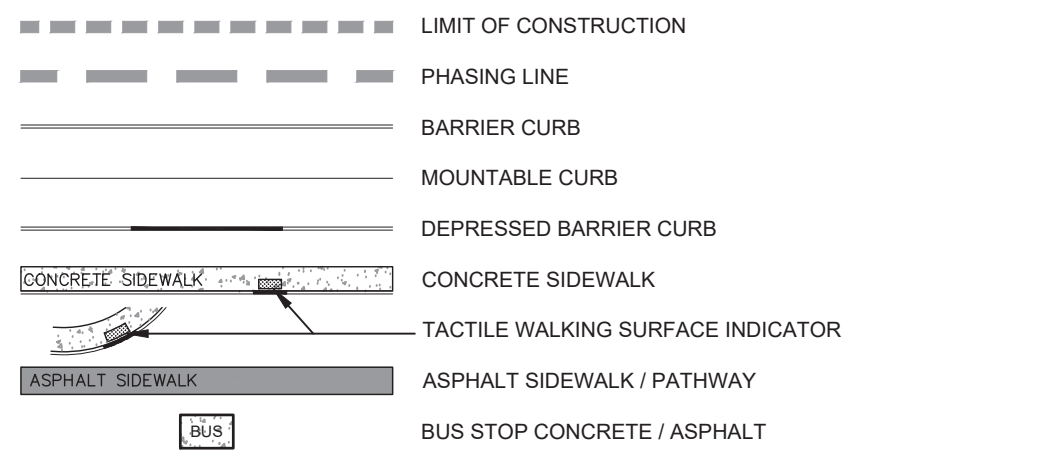
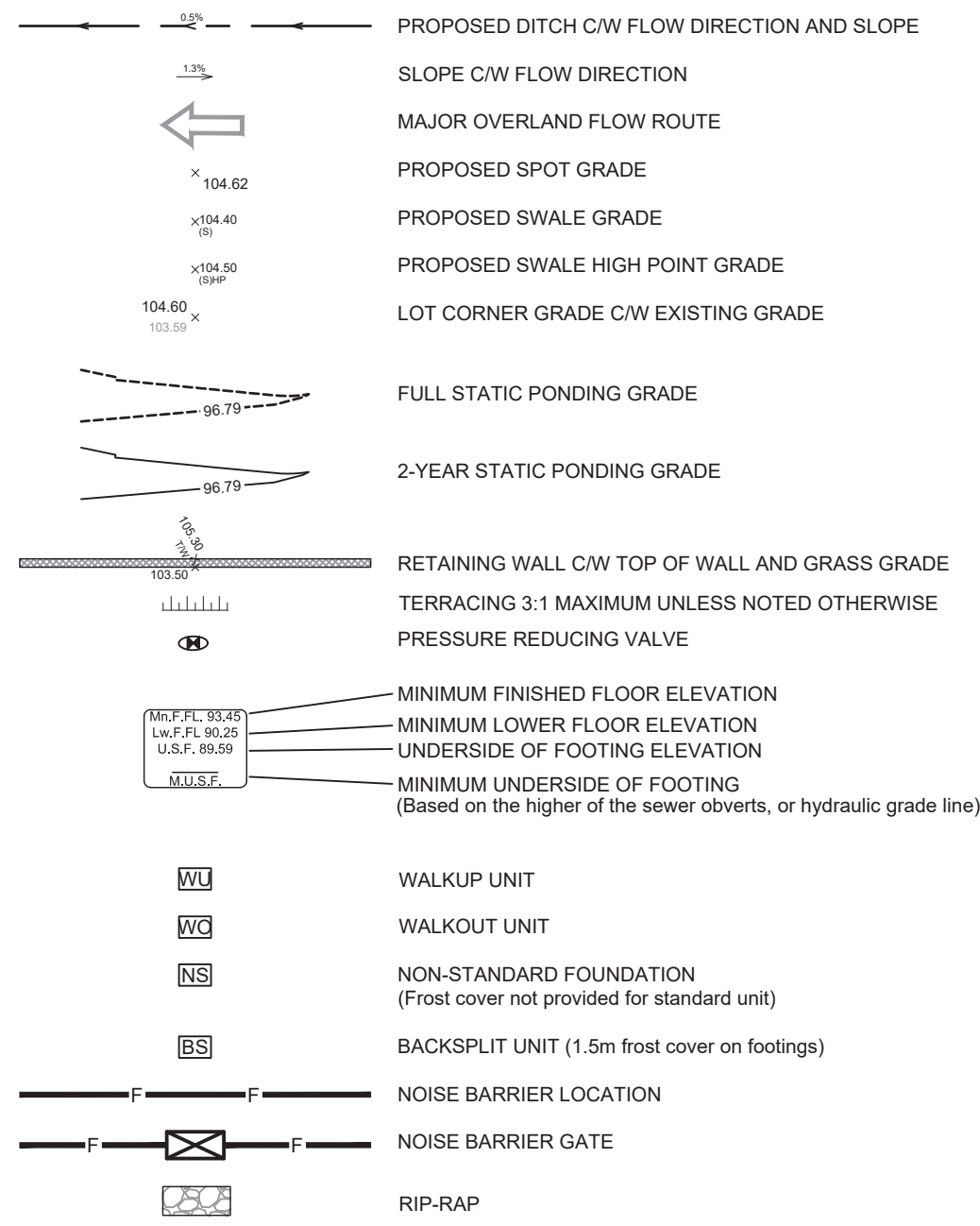


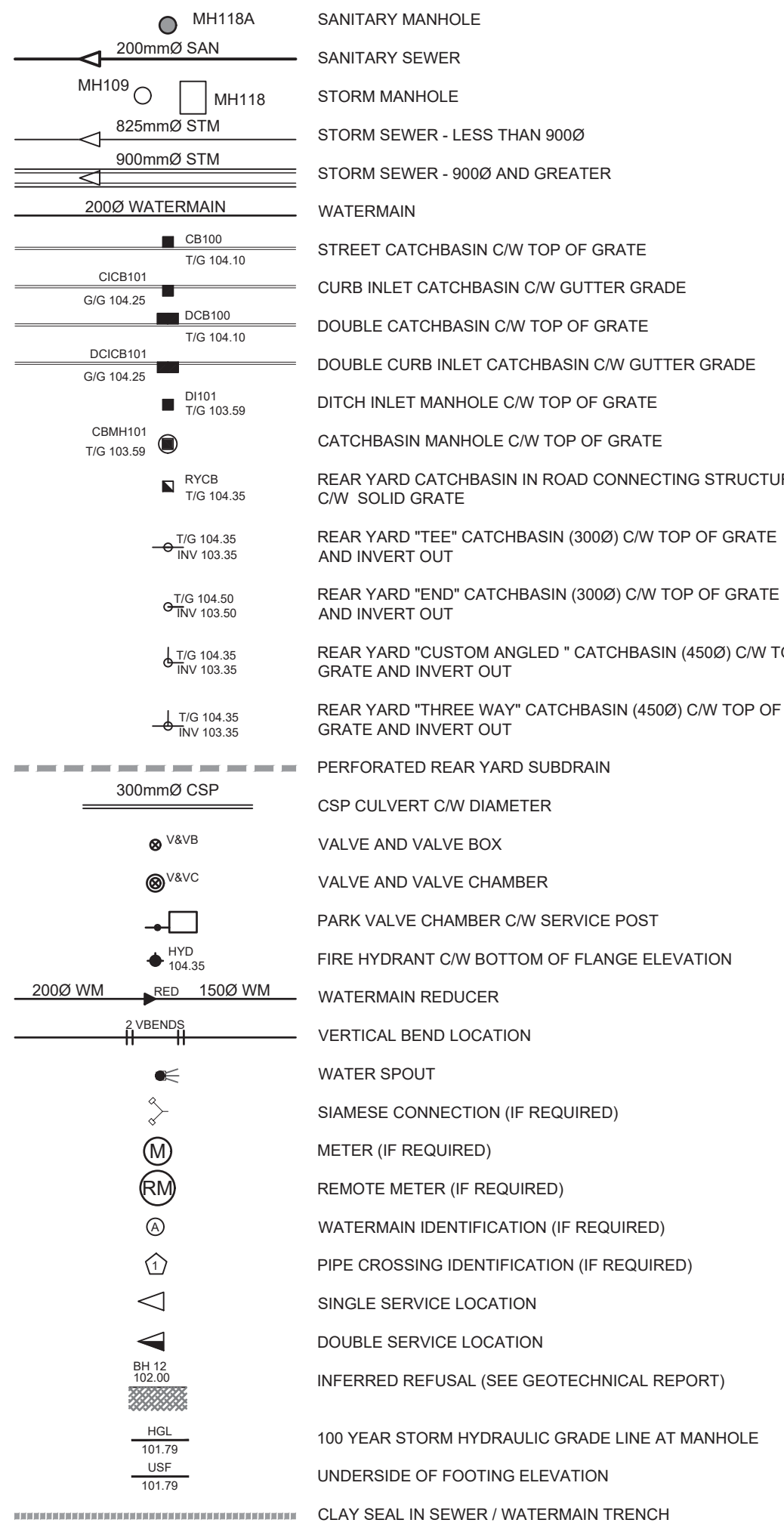
GENERAL LEGEND



GRADING LEGEND



SERVICING LEGEND



PIPE INTERFERENCE TABLE				PIPE INTERFERENCE TABLE				PIPE INTERFERENCE TABLE			
Crossing No.	PIPE 1	PIPE 2	Clearance	Crossing No.	PIPE 1	PIPE 2	Clearance	Crossing No.	PIPE 1	PIPE 2	Clearance
1	WM	WM	0.519	27	WM	WM	0.526	53	WM	WM	0.985
2	WM	WM	0.502	28	WM	WM	0.716	54	WM	WM	0.845
3	STM	WM	0.525	29	WM	WM	1.358	55	STM	STM	1.047
4	WM	WM	0.506	30	WM	WM	0.609	56	WM	WM	1.033
5	WM	WM	0.508	31	WM	STM	1.370	57	WM	STM	0.295
6	WM	WM	1.210	32	WM	WM	0.479	58	WM	STM	0.634
7	WM	STM	1.257	33	WM	WM	0.516	59	WM	STM	0.670
8	WM	WM	0.292	34	WM	WM	0.533	60	WM	STM	0.777
9	WM	WM	0.258	35	WM	WM	0.284	61	WM	STM	0.368
10	WM	STM	1.368	36	WM	WM	0.500	62	WM	STM	0.979
11	WM	WM	0.531	37	WM	WM	0.280	63	WM	STM	0.964
12	WM	WM	0.532	38	WM	WM	0.503	64	WM	STM	0.984
13	WM	WM	0.505	39	WM	WM	0.608	65	WM	STM	1.595
14	WM	WM	0.504	40	WM	STM	1.436	66	WM	STM	1.619
15	WM	WM	0.263	41	WM	WM	0.555	67	WM	STM	0.918
16	WM	WM	0.810	42	WM	WM	0.500	68	WM	STM	1.410
17	WM	STM	0.275	43	WM	WM	0.502	69	WM	STM	0.986
18	WM	STM	0.521	44	WM	WM	1.374	70	WM	STM	1.054
19	WM	WM	1.235	45	WM	WM	0.254	71	WM	STM	0.969
20	WM	WM	0.270	46	WM	WM	0.502	72	WM	STM	0.815
21	WM	WM	0.548	47	WM	WM	0.521	73	WM	STM	1.690
22	WM	WM	0.546	48	WM	WM	0.505	74	WM	STM	1.641
23	WM	WM	0.547	49	WM	WM	0.320	75	WM	STM	1.472
24	WM	WM	0.948	50	WM	WM	0.889	76	WM	STM	1.402
25	WM	WM	0.339	51	WM	WM	0.877	77	WM	STM	0.309
26	WM	WM	0.521	52	WM	WM	0.503	78	WM	STM	0.438

NOTES :

- ALL MATERIALS AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH THE CURRENT CITY OF OTTAWA STANDARD DRAWINGS & SPECIFICATIONS OR OPS/DPSS IF CITY DRAWINGS AND SPECIFICATIONS DO NOT APPLY.
- THE POSITION OF UNDERGROUND AND ABOVEGROUND SERVICE UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH SERVICE UTILITIES AND STRUCTURES IS NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL REPORT ALL CONFLICTS, DISCOVERIES OF ERROR AND DISCREPANCIES TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AND ASSUME RESPONSIBILITY FOR ALL UTILITIES WHETHER OR NOT SHOWN ON THESE DRAWINGS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL LANDS BEYOND THE SITE LIMITS. ANY AREAS BEYOND THE SITE LIMITS, WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPAIRED AND RESTORED TO ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ADJACENT LAND OWNER. THE OWNER, THE OWNERS REPRESENTATIVES AND/OR THE AUTHORITY HAVING JURISDICTION AT THE EXPENSE OF THE CONTRACTOR.
- WHERE NECESSARY, THE CONTRACTOR SHALL IMPLEMENT A TRAFFIC MANAGEMENT PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE LATEST VERSION OF THE M.T.O. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY TRAFFIC CONTROL MEASURES MUST BE REMOVED UPON THE COMPLETION OF THE WORKS.
- SHOULD ANY BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER TO CONTACT THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE. MUST BE NOTIFIED IMMEDIATE, AND WORK WITHIN THE AREA SHALL BE CEASED UNTIL FURTHER NOTICE.
- FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL REPORT NO PG6641-1 PREPARED BY PATERSON GROUP.
- FOR GEOTECHNICAL BENCHMARK AND GEOMETRIC LAYOUT OF STREET AND LOTS, REFER TO TOPOGRAPHICAL SURVEY AND PLAN OF SUBDIVISION PREPARED BY ANNE O'SULLIVAN, VOLLEBERG LTD. BENCHMARK BASED ON CAN-NET VIRTUAL REFERENCE SYSTEM NETWORK.
- FOR SITE PLAN INFORMATION, REFER TO SITE PLAN PREPARED BY RLA ARCHITECTURE.
- FOR NOISE ATTENUATION PLAN REFER TO N-1 PREPARED BY IBI GROUP.
- THESE DRAWINGS ARE NOT TO BE SCALED OR USED FOR LAYOUT PURPOSES.
- ROADWAY SECTIONS REQUIRING GRADE RAISE TO PROPOSED SUB GRADE LEVEL TO BE FILLED WITH ACCEPTABLE NATIVE OR IMPORTED OPS/DPSS SELECTED SUBGRADE MATERIAL IF NATIVE MATERIAL IS DEFICIENT AS PER RECOMMENDATION OF GEOTECHNICAL ENGINEER.
- IN AREAS WHERE EXISTING GROUND IS BELOW THE PROPOSED ELEVATION OF SEWER AND WATERMANS, GRADE RAISING AND FILLING IS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, AS PER CITY GUIDELINES. ALL WATERMANS IN FILL AREAS ARE TO BE TIED WITH RESTRAINING JOINTS AND THRUST BLOCKS.
- THE CONTRACTOR SHALL IMPLEMENT THE EROSION AND SEDIMENT CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY SITE CONSTRUCTION. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER OR ANY REGULATORY AGENCY. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE START OF A SUBSEQUENT PHASE.
- CONTRACTORS SHALL BE RESPONSIBLE FOR KEEPING CLEAN ALL ROADS WHICH BECOME COVERED IN DUST, DEBRIS AND/OR MUD AS A RESULT OF ITS CONSTRUCTION OPERATIONS.
- ALL PIPE, CULVERTS, STRUCTURES REFER TO NOMINAL INSIDE DIMENSIONS.
- SHOULD CLAY SEALS BE REQUIRED, THEY SHALL BE INSTALLED AS PER THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, PIPE MATERIALS SHALL BE AS FOLLOWS:
 - WATERMANS TO BE PVC DR18
 - SANITARY SEWER TO BE PVC DR35
 - PERFORATED STORM SEWERS IN REAR YARDS AND LANDSCAPE AREAS TO BE HOPE
 - STORM SEWERS 375MM DIAMETER AND LESS TO BE PVC DR35
 - STORM SEWERS 450MM DIAMETER AND GREATER TO BE CONCRETE, CLASS AS PER OPS/DPSS 807.010 OR 807.030 OR HIGHER.
- ALL CONNECTIONS TO EXISTING WATERMANS ARE TO BE COMPLETED BY CITY WORKERS. CONTRACTOR IS TO EXCAVATE, BACKFILL, COMPACT AND REINSTATE.
- ANY WATERMAIN WITH LESS THAN 2.4M AND ANY SEWER WITH LESS THAN 2.0M DEPTH OF COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR AS APPROVED BY THE ENGINEER.
- ALL STUBBED SEWERS SHALL HAVE PRE-MANUFACTURED CAPS INSTALLED.
- ALL CATCHBASINS SHALL HAVE A 600MM SUMP. ALL CATCHBASIN MANHOLES, AND ALL STORM MANHOLES WITH OUTLETTING PIPE SIZES LESS THAN 900MM, SHALL HAVE A 300MM SUMP.
- ALL SANITARY MANHOLES SHALL BE EQUIPPED WITH A WATERTIGHT COVER.
- ALL LEADS FOR STREET CATCHBASINS AND CURB INLET CATCHBASINS CONNECTED TO MAIN SHALL BE 200MM PVC DR35 @ MIN 2% SLOPE UNLESS NOTED OTHERWISE. ALL LEADS FOR RYCB'S CONNECTED TO MAIN SHALL BE 200MM PVC DR35 @ MIN 1% SLOPE UNLESS NOTED OTHERWISE.
- UNLESS SPECIFICALLY NOTED OTHERWISE, ALL STREET CATCHBASINS SHALL BE INSTALLED WITH TWO - 3.0M MINIMUM SUBDRAINS INSTALLED LONGITUDINALLY, PARALLEL WITH THE CURB. ALL CATCHBASINS IN ASPHALT AREAS, NOT ADJACENT TO A CURB, SHALL BE INSTALLED WITH FOUR - 3.0M MINIMUM SUBDRAINS INSTALLED ORTHOGONALLY.
- INLET CONTROL DEVICES SHALL BE INSTALLED PRIOR TO COMPLETING THE ROAD BASE (GRANULAR A).
- ALL SEWER SERVICE LATERALS WITH MAINLINE CONNECTIONS DEEPER THAN 5.0M REQUIRE A CONTROLLED SETTLEMENT JOINT.
- EACH BUILDING SHALL BE EQUIPPED WITH A SANITARY AND STORM SEWER BACKWATER VALVE AND CLEAN-OUT ON ITS PRIMARY SERVICE. AS PER ONTARIO BUILDING CODE REQUIREMENTS (BY OTHERS).
- THE HGL PROVIDED IS BASED ON HYDRAULIC MODELING COMPLETED USING PCSWMM AND THE 100 YEAR CHICAGO STORM EVENT (CBH10010).
- THE SUBGRADE OF ALL STRUCTURES, PIPE, ROADS, SIDEWALKS, WALKWAYS, AND BUILDINGS SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- TOP COURSE ASPHALT SHALL NOT BE PLACED UNTIL THE FINAL CTV INSPECTION AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA.
- ALL RETAINING WALLS GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY A QUALIFIED STRUCTURAL ENGINEER.
- ALL RETAINING WALLS GREATER THAN 0.6M IN HEIGHT REQUIRE A GUARD. ANY GUARD ON A RETAINING WALL GREATER THAN 1.0M IN HEIGHT SHALL BE DESIGNED BY THE QUALIFIED STRUCTURAL ENGINEER RESPONSIBLE FOR THE WALL DESIGN.
- UPON COMPLETION OF THE RETAINING WALL, THE CONTRACTOR SHALL REQUEST A PERFORMANCE CERTIFICATE FROM THE QUALIFIED ENGINEER RESPONSIBLE FOR THE WALL DESIGN.

CLIENT
CLARIDGE HOMES
210 Gladstone Ave. Ottawa, On K0P 0Y6

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ISSUES	No.	DESCRIPTION	DATE
1	ISSUED FOR CITY REVIEW		2021-12-15
2	REVISED PER CITY COMMENTS		2022-08-15
3	REVISED PER CITY COMMENTS		2022-12-16
4	REVISED PER CITY COMMENTS		2023-03-24



CONSULTANTS

- SEE 010, FOR NOTES, LEGEND, CB TABLE, STREET SECTIONS AND DETAILS

SEAL

STRUCTURE ID	STORM AREA ID	STRUCTURE	FRAME & COVER	ELEVATION		OUTLET PIPE		INLET CONTROL DEVICE			COMMENTS	
				TOP OF GRATE	INVERT	DIAMETER (mm)	TYPE	100yr Dynamic HEAD	RESTRICTED FLOW (l/s)	ICD TYPE		ORIFICE SIZE (mm dia.)
CB1	MH126	OPSD 705.010	S19	91.30	89.90	200	PVC DR35	1.630				
CB2	MH125	OPSD 705.010	S19	91.25	89.85	200	PVC DR35	1.690	14.00	CUSTOM IPEX MHF		
CB3	MH124	OPSD 705.010	S19	91.25	89.85	200	PVC DR35	1.680				
CB4	MH102	OPSD 705.010	S19	91.30	89.90	200	PVC DR35	1.610	8.00	CUSTOM IPEX LMF		
CB5	MH101	OPSD 705.010	S19	91.17	89.77	200	PVC DR35	1.640	8.00	CUSTOM IPEX LMF		
CB6	MH100	OPSD 705.010	S19	91.16	89.76	200	PVC DR35	1.540	8.00	CUSTOM IPEX LMF		
CB7	MH113	OPSD 705.010	S19	91.25	89.85	200	PVC DR35	1.660	12.00	CUSTOM IPEX MHF		
CB8	CBMH9	OPSD 705.010	S19	91.33	89.93	200	PVC DR35	1.600	18.00	IPEX MHF		
CBMH9	CBMH9B	OPSD 705.010	S19	91.35	89.95	200	PVC DR35	1.690	13.00	CUSTOM IPEX MHF		
CB10	MH110	OPSD 705.010	S19	91.35	89.95	200	PVC DR35	1.610	23.00	CUSTOM IPEX HF		
CB11	MH127	OPSD 705.010	S19	91.20	89.80	200	PVC DR35	1.660	12.00	CUSTOM IPEX MHF		
CB12	MH127B	OPSD 705.010	S19	91.20	89.80	200	PVC DR35	1.660	12.00	CUSTOM IPEX MHF		
CB13	MH130	OPSD 705.010	S19	91.30	89.90	200	PVC DR35	1.650	8.00	CUSTOM IPEX LMF		
CBMH14	MH111	OPSD 705.010	S19	91.35	89.95	200	PVC DR35	1.680	8.00	IPEX LMF		
Temp CB	MH109	OPSD 705.010	S19	91.25	87.70	375	PVC DR35	3.860	28.00	IPEX MHF	102	
CCB7	MH100C	S31	S31	91.25	89.85	200	PVC DR35	1.410	10.00	CUSTOM IPEX MHF		
ECB8	MH100D	S31	S31	91.25	89.85	200	PVC DR35	1.610	10.00	CUSTOM IPEX MHF		
TCB5	MH109B	S31	S31	91.40	90.00	200	PVC DR35	1.680	8.00	CUSTOM IPEX LMF		
CBMH126	CBMH126	OPSD 705.010	S25 & S24.1	91.48	86.90	450	CONC	4.844	14.00	CUSTOM IPEX MHF		
MH128	MH127	OPSD 705.010	S25 & S24.1	91.52	87.53	450	CONC	4.156	12.00	CUSTOM IPEX MHF		
CBMH134	MH113	OPSD 705.010	S25 & S24.1	91.47	87.13	600	CONC	4.678	12.00	CUSTOM IPEX MHF		

ROADWAY STRUCTURE:

- MAIN DRIVE AISLE/FIRE ROUTE (690mm)**
- 40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
 - 150mm - OPSS GRANULAR "A" CRUSHED STONE
 - 450mm - OPSS GRANULAR "B" TYPE II
- PARKING AREAS (640mm)**
- 40mm - SUPERPAVE 12.5 ASPHALTIC CONCRETE
 - 50mm - SUPERPAVE 19.0 ASPHALTIC CONCRETE
 - 150mm - OPSS GRANULAR "A" CRUSHED STONE
 - 300mm - OPSS GRANULAR "B" TYPE II

APPROVED
By Lily Xu at 6:31 pm, Jul 12, 2023

LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

PROJECT
ZENS - 4624 SPRATT

PROJECT NO: 135856
DRAWN BY: D.D./S.G.
PROJECT MGR: R.M.
CHECKED BY: A.Z.
APPROVED BY: R.M./D.Y.

SHEET TITLE
GENERAL NOTES, LEGEND AND CB DATA TABLE

SHEET NUMBER **C-010** **ISSUE** **4**