

October 30, 2025

City of Ottawa
Development Review - East Branch
Planning, Development and Building Services Department
110 Laurier Ave West, 4th Floor East.
Ottawa, ON K1P 1J1

STORMWATER MANAGEMENT BRIEF: 4000 RIVERSIDE DR, OTTAWA, ON K1V 2E8

The intent of this letter is to address the Stormwater Management (SWM) strategy associated with the proposed site modification to reconfigure an existing drive-thru lane for the existing carwash and add a new drive-thru lane for a quick service restaurant for the subject site located at 4000 Riverside Drive in Ottawa, Ontario.

The existing site is approximately 0.527 ha in area and is located at the southwest quadrant of Riverside Drive and Hunt Club Road in Ottawa, ON. The site currently operates as an existing gas station with a carwash facility.

The current stormwater management onsite includes both quantity and quality controls, refer to the existing Site Services Plan prepared by Novatech Engineering Consultants Ltd and dated April 2002 located in the appendix. The quantity component is managed by a 165mm diameter orifice located at existing CBMH#3 which restricts the flow to an allowable release rate and creating storage via. surface ponding and storage within the piping and associated storm structures (CBs + MHs) prior to discharging offsite. The quality component is treated by an existing OWS (STC750) located downstream of the orifice. The treated flow will utilize existing 300mm storm outlet prior to discharging into 1350mm storm line within City Easement.

The proposed drive-thru modifications and addition will decrease overall site imperviousness by 1.0% and therefore confirming there is no increase in flow from the site as a result of the proposed modifications, refer to the comparison table below for the weighted surface runoff coefficient.

Surface Composition		Impervious	Pervious	Combined
Proposed	(m ²)	3837.00	1437.20	5274.20
Condition	(ha)	0.384	0.144	0.527
Runoff Coefficient		0.900	0.200	0.71

Surface Composition		Impervious	Pervious	Combined
Existing	(m ²)	3900.80	1373.40	5274.20
Condition	(ha)	0.390	0.137	0.527
Runoff Coefficient		0.900	0.200	0.72

Table 1. Runoff Coefficients for Existing and Proposed Conditions.

Considering the existing stormwater report for the subject site is not available we have recomputed the required stormwater storage required based on the modified rational method. Based on an existing orifice size of 165mm diameter and a 100-year ponding elevation (as illustrated in the existing Site Services prepared by Novatech Engineering Consultants Ltd) a storage volume of 55.21 m³ is required and the site is able to achieve 71.38 m³ via surface ponding and underground storage within the storm network. Refer to the tables below for the storage calculation.

TOTAL STORAGE FOR UNDERGROUND PIPES				
Pipe ID	Diameter	Area	Length	Volume
	(mm)	(m ²)	(m)	(m ³)
1	300	0.07	7	0.49
2	300	0.07	36	2.54
3	300	0.07	6	0.42
4	300	0.07	19.5	5.51
5	100	0.01	2.5	0.02
6	100	0.01	2.5	0.02
7	100	0.01	2.5	0.02
8	100	0.01	2.5	0.02
9	300	0.07	23.5	1.66
10	300	0.07	20.5	1.45
11	150	0.02	4	0.07
12	300	0.07	7.5	0.53
13	300	0.07	11.5	0.81
14	300	0.07	27.5	1.94
15	300	0.07	6.5	0.46
16	300	0.07	2	0.14
17	300	0.07	25	1.77
18	300	0.07	21.5	1.52
19	300	0.07	8	0.57
20	300	0.07	9	0.64
Orifice	165	0.02	1	0.02
Sum				20.62

Table 2. Total Storage for underground storm pipes

TOTAL STORAGE FOR UNDERGROUND STRUCTURES					
Structure	Diameter	Area	Maximum.	Invert	Volume
	(mm)	(m ²)	Water level	(m)	(m ³)
EX.CB#01	600x600	0.36	101.38	100.06	0.48
CB#01	600x600	0.36	102.63	99.91	0.98
CB#02	600x600	0.36	102.44	99.43	1.08
CB#03	600x600	0.36	102.45	99.66	1.00
CBMH#01	1200	1.13	102.31	99.29	3.42
EX.CBMH#1	1200	1.13	102.14	99.89	2.54
EX.CBMH#2	1200	1.13	102.17	99.51	3.01
STM MH#1	1500	1.77	102.65	99.21	6.08
STM MH#2	1200	1.13	102.50	99.57	3.31
STM MH#3	1200	1.13	102.56	99.35	3.63
EX.STORMCEPTOR	1200	1.13	102.73	99.87	3.23
EX.STM MH2	1200	1.13	102.92	98.35	5.17
Sum					33.94

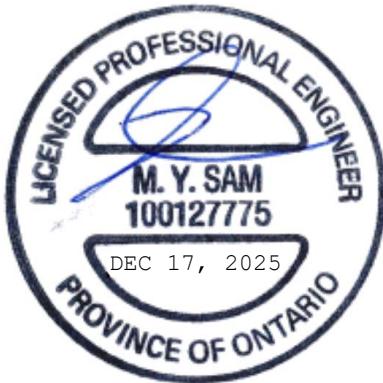
Table 3. Total Storage for underground structures (MH, CBMH, CB, OGS)

Storage Volume for 100-year Storm	
Event (m³)	
Catch Basins and Manholes	33.94
Surface Ponding	16.82
Underground Conduits	20.62
Total Provided	71.38

Table 4. Total onsite storage for 100-year storm event

In conclusion, the proposed site modifications will not have an adverse impact to the existing drainage system and neighboring properties as the existing stormwater management system will be maintained for both quantity and quality purposes.

We trust that the contents of this letter meet your immediate needs. Should you have any questions or concerns regarding any aspect of this letter, or should you require any further assistance, please don't hesitate to contact our office.



James Sam, P.Eng
J and B Engineering Inc.



J+B ENGINEERING INC.
WWW.JANDB-INC.COM

APPENDICES

APPENDIX A – STORMWATER MANAGEMENT CALCULATIONS

APPENDIX B – SITE SERVICES PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD

APPENDIX C – SITE SERVICES PREPARED



J+B ENGINEERING INC.
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APPENDIX A – STORMWATER MANAGEMENT CALCULATIONS

TORONTO (HEAD OFFICE)
25 Centurian Drive, Suite 201
Markham, ON, L3R 5N8
T: 416 229 2636 F: 416 229 6965

CALGARY
707 – 10TH AVE SW, SUITE 150
CALGARY, AB, T2R 0B3
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Site Location or Name

City of Ottawa, ON - 4000 Riverside, Ottawa, ON

Consultant JandB Engineering

Prepared By

David Liu

Date

15-Oct-25

VOLUMES REQUIRED WITH MODIFIED RATIONAL FORMULA

Surface Composition	Impervious	Pervious	Combined	
Proposed Condition	(m ²) (ha)	3837.00 0.384	1437.20 0.144	5274.20 0.527
Runoff Coefficient		0.900	0.200	0.71

Surface Composition	Impervious	Pervious	Combined	
Existing Condition	(m ²) (ha)	3900.80 0.390	1373.40 0.137	5274.20 0.527
Runoff Coefficient		0.900	0.200	0.72

St. Event	Existing	Proposed
2-Year	0.72	0.71
5-Year	0.72	0.71
10-Year	0.72	0.71
25-Year	0.79	0.78
50-Year	0.86	0.85
100-Year	0.90	0.89

Storm Event	Rainfall Intensity (mm/hr)			<Equation 1> Flow Rate (m ³ /sec)		
	a	b	c	I	Existing	Proposed
2-Year	732.951	0.810	6.199	76.81	0.0811	0.0799
5-Year	998.071	0.814	6.053	104.19	0.1100	0.1084
10-Year	1174.184	0.816	6.014	122.14	0.1289	0.1270
25-Year	1402.884	0.819	6.018	144.69	0.1680	0.1655
50-Year	1569.580	0.820	6.014	161.47	0.2046	0.2015
100-Year	1735.688	0.820	6.014	178.56	0.2356	0.2321

Time of Concentration	
(minutes)	10.00
Orifice	Contraction Coeff. 0.80
	Orifice Diameter 0.1650
	Gravity Constant 9.81
	Pond Elev. 102.04
	Invert Elev. 98.35
	Pressure Head 3.61
	Qallow 0.0990
	Qorif 0.1439

Storm Event	Tc	Id 100 Years	Qpost	Qpredev	Excess Flow	Volume(m ³)
5 Yr Pre 100 Yr Post	5	242.7039	0.3155	0.1439	0.1716	51.474
	6	226.0101	0.2938	0.1439	0.1499	53.956
	7	211.6678	0.2751	0.1439	0.1312	55.119
	8	199.2006	0.2589	0.1439	0.1150	55.214
	9	188.2542	0.2447	0.1439	0.1008	54.432
	10	178.5590	0.2321	0.1439	0.0882	52.918
	12	162.1330	0.2108	0.1439	0.0668	48.128
	14	148.7229	0.1933	0.1439	0.0494	41.507
	16	137.5493	0.1788	0.1439	0.0349	33.493
	18	128.0828	0.1665	0.1439	0.0226	24.389
	20	119.9504	0.1559	0.1439	0.0120	14.414
	25	103.8471	0.1350	0.1439	-0.0089	-13.382
	30	91.8682	0.1194	0.1439	-0.0245	-44.087
	35	82.5786	0.1073	0.1439	-0.0366	-76.794
	40	75.1453	0.0977	0.1439	-0.0462	-110.955
	45	69.0504	0.0898	0.1439	-0.0542	-146.216
	50	63.9541	0.0831	0.1439	-0.0608	-182.336
	55	59.6238	0.0775	0.1439	-0.0664	-219.146

Max Volume Required cum 55.21

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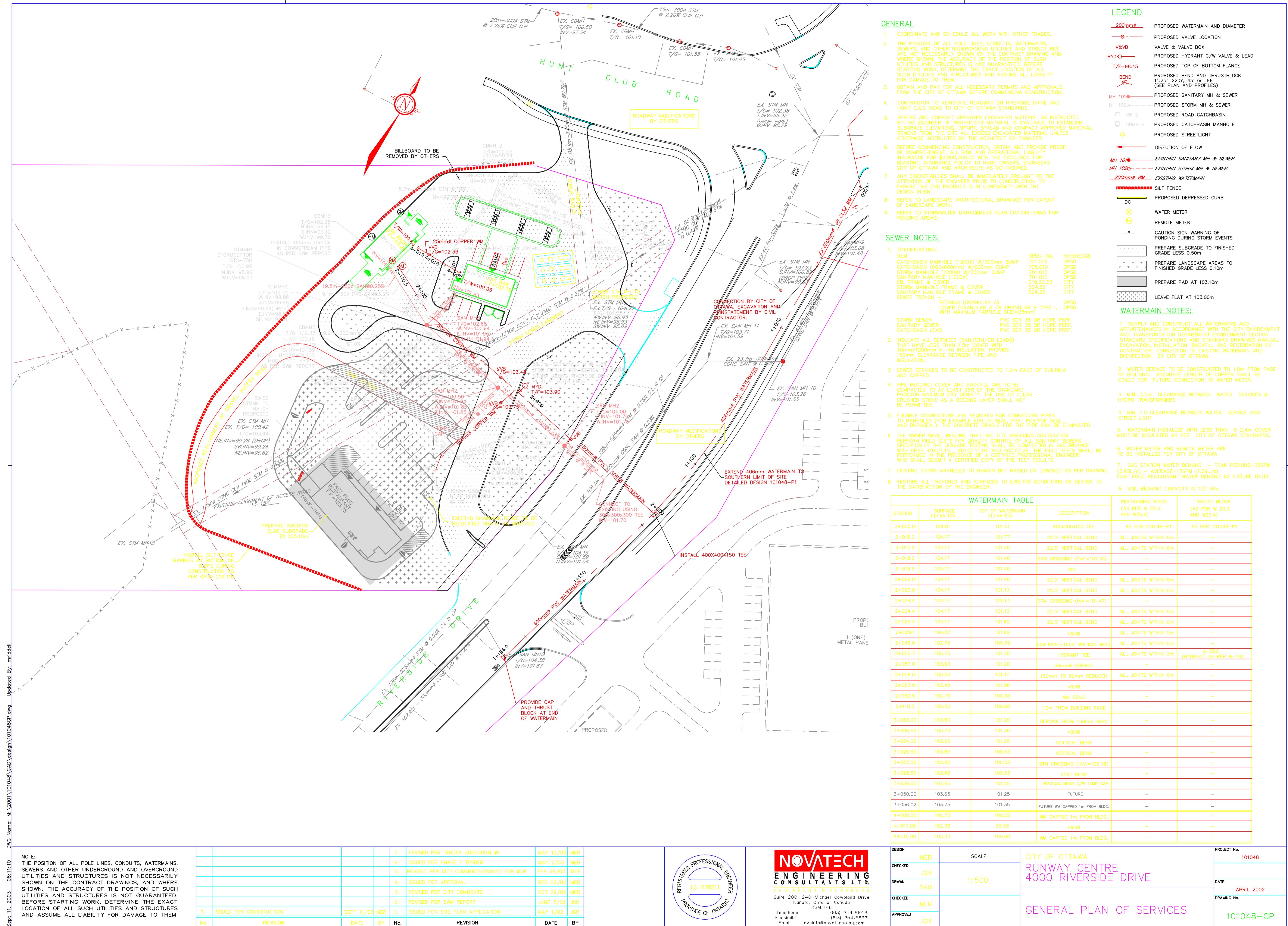


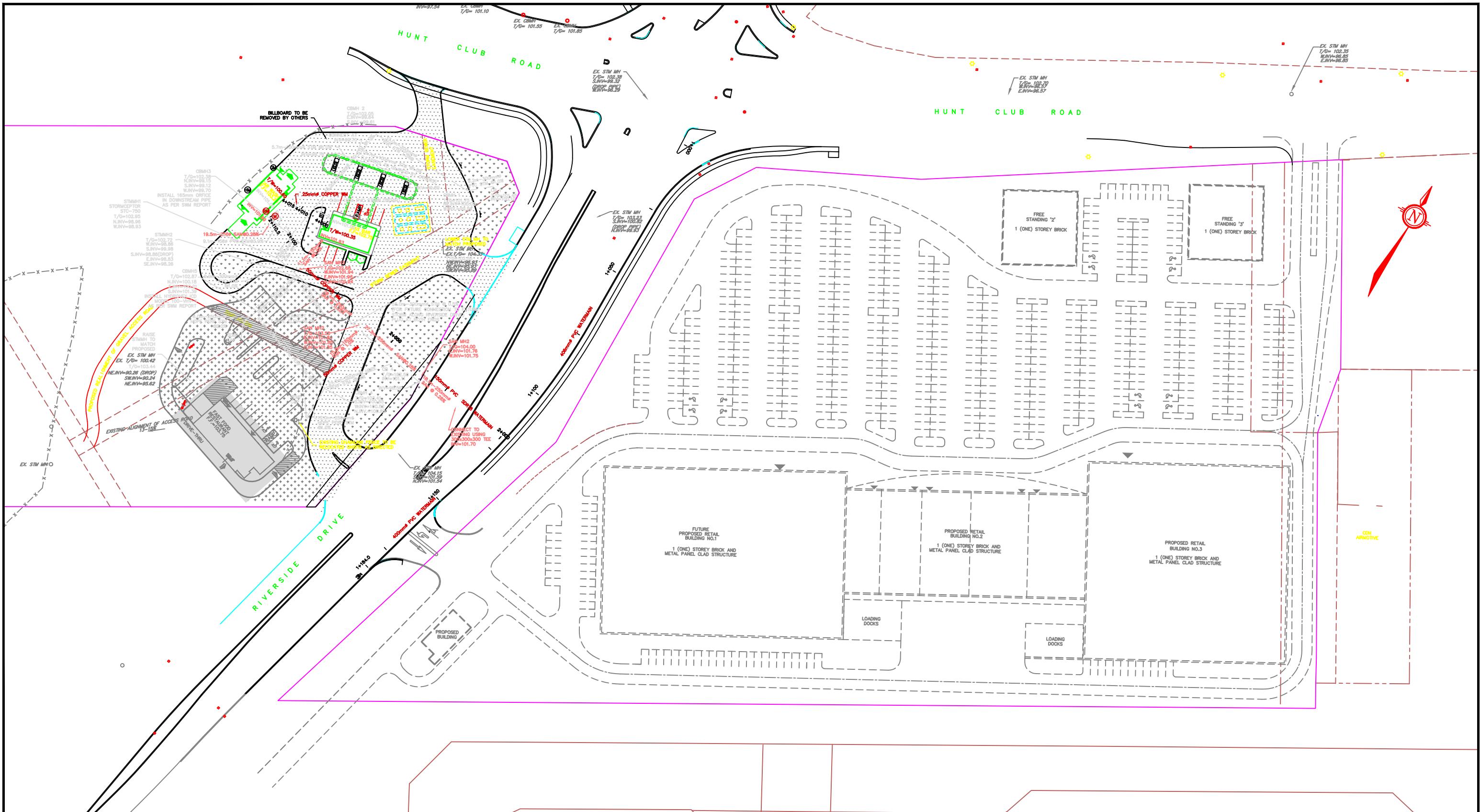
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APPENDIX B – SITE SERVICES PREPARED BY NOVATECH ENGINEERING CONSULTANTS LTD

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25 Centurian Drive, Suite 201
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CALGARY
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NOVATECH

ENGINEERING
CONSULTANTS LTD.

ENGINEERS & PLANNERS

Suite 200, 240 Michael Cowpland Drive
Kanata, Ontario, Canada
K2M 1P6

Telephone (613) 254-9643
Facsimile (613) 254-5867
Email: novainfo@novatech-eng.com

RUNWAY CENTRE

CONCEPTUAL DEVELOPMENT PLAN

MAY 2002

1:1250

101048-FIG1

SHT11X17.DWG - 278mmX431mm



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WWW.JANDB-INC.COM

APPENDIX C – SITE SERVICES PREPARED

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GENERAL NOTES			
1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.			
2. DO NOT SCALE DRAWINGS.			
3. REPORT ALL DISCREPANCIES TO THE DESIGN ENGINEER. MISSING OR INACCURATE DIMENSIONS OR DRAWINGS ARE THE RESPONSIBILITY OF THE DESIGN ENGINEER.			
4. USE ONLY LATEST RELEASES OF THE DESIGN ENGINEER AS APPLICABLE.			
5. DESIGN AND CONSTRUCTION OF THIS PROJECT SHALL COMPLY WITH THE PROVISIONS OF THE DESIGN ENGINEER.			
6. ALL WORKS AND MATERIALS USED SHALL COMPLY WITH THE BUILDING CODE OF THE LAST EDITION.			
7. THIS DRAWING IS TO BE USED IN CONJUNCTION WITH ALL RELATED DRAWINGS AS RECD IN CONTRACTOR TO THE DESIGNER.			
8. ELEVATING OTHERWISE.			
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331. ISSUE TABLE			
332. PRELIMINARY DESIGN			
333. 1st REVISION AS PER COMMENT			
334. OCT 25, 2025			
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