

PROJECT TEAM

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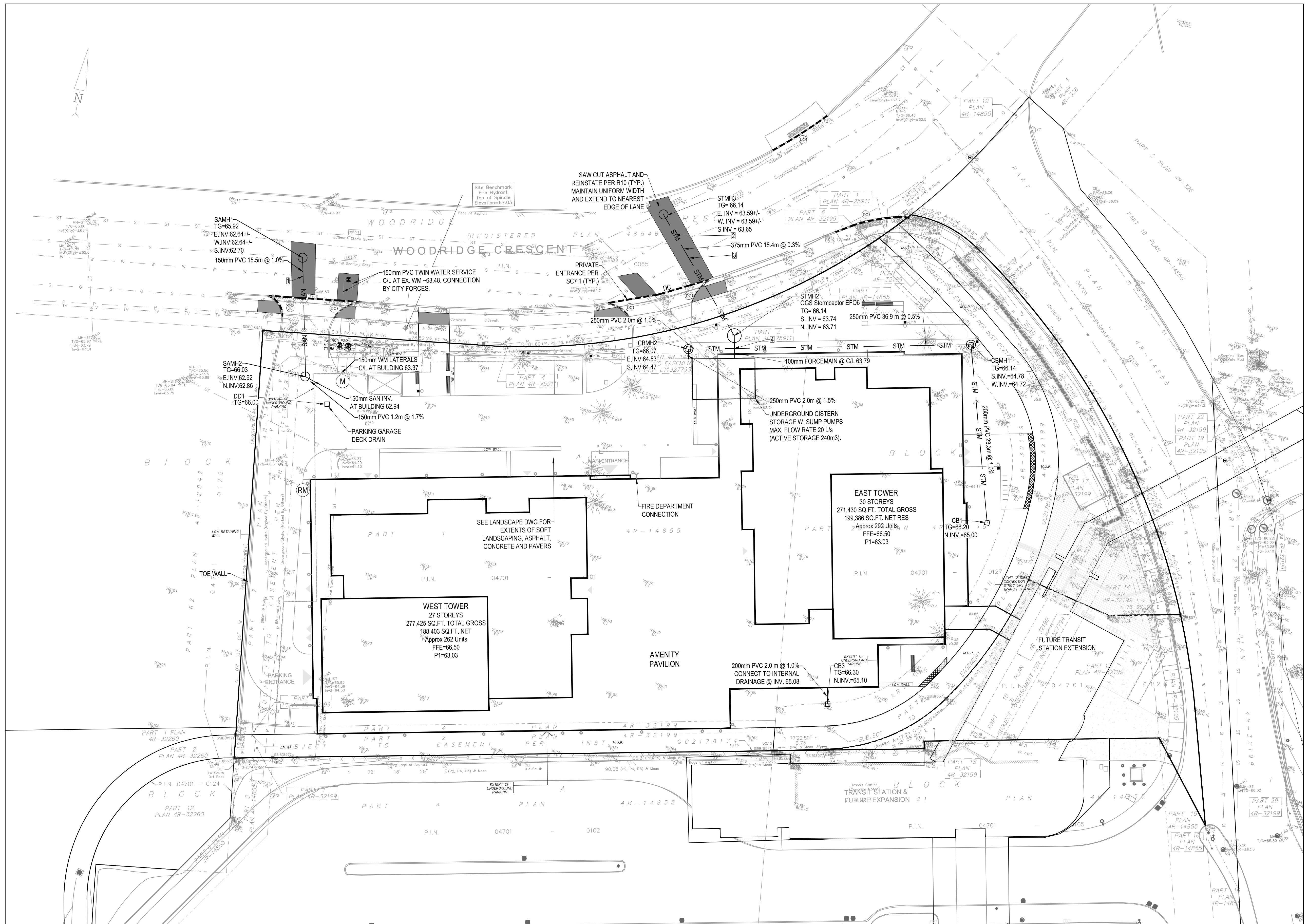
ENVIRONMENTAL
GRADIENT WIND ENGINEERING
JOSHUA FOSTER
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LEGEND

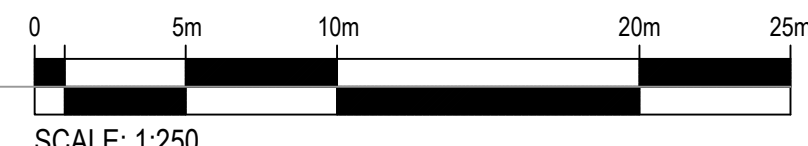
66.50	PROPOSED GRADE ELEVATION
66.50/66.35	PROPOSED TOP AND BOTTOM OF CURB
STMH	PROPOSED STORM SEWER MANHOLE
SAMH	PROPOSED SANITARY SEWER MANHOLE
CBMH	PROPOSED CATCHBASIN MANHOLE
CB	PROPOSED CATCHBASIN
STM	PROPOSED STORM SEWER
SAN	PROPOSED SANITARY SEWER
W	PROPOSED WATER SERVICE LINE
⊕	PROPOSED VALVE BOX
▽	PROPOSED REDUCER
FH	PROPOSED FIRE HYDRANT
DC	PROPOSED DEPRESSED CURB
X	SERVICES TO BE REMOVED
65.96	EXISTING GRADE ELEVATION
MH	EXISTING MANHOLE
CB	EXISTING CATCHBASIN
VB	EXISTING VALVE & BOX
FH	EXISTING FIRE HYDRANT
STM	EXISTING STORM SEWER
SAN	EXISTING SANITARY SEWER
W	EXISTING WATERMAIN
G	EXISTING GASMAIN
TV	EXISTING CABLE
P	EXISTING HYDRO
---	DRAINAGE AREA BOUNDARY
1	CONTROLLED DRAINAGE AREA

G. Wildman
GERALDINE WILDMAN
ACTING MANAGER, DEVELOPMENT REVIEW EAST
PLANNING, REAL ESTATE & ECONOMIC DEVELOPMENT
DEPARTMENT, CITY OF OTTAWA

APPROVED
By Geraldine Wildman at 1:11 pm, Oct 21, 2022



1 SERVICING PLAN
SCALE= 1:250



NOTES: STORM SEWERS AND STRUCTURES

- ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
- STORM SEWERS 450mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
- STORM SEWER LARGER THAN 450mm SHALL BE REINFORCED CONCRETE CLASS 100.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL STORM MANHOLES TO BE AS PER STORM STRUCTURE TABLE.
- ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
- ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
- STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMH'S AS INDICATED IN TABLE WITH SUMP. ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010. REAR YARD CATCHBASINS PER S30 AND S31.
- INSTALLATION OF FLOW CONTROL ICDS TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.
- PROVIDE BACKWATER VALVE ON FOUNDATION DRAIN AT BUILDING PER S14.

NOTES: SANITARY SEWER AND MANHOLES

- ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING.
- SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2.3.4.
- SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
- ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
- MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
- ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD W22, OR APPROVED BY THE ENGINEER.
- PROVIDE BACKWATER VALVE AT BUILDING PER S14.1

NOTES: WATERMAIN

- ALL WATERMAIN AND WATERMAIN APPURTENANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
- ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
- ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMANS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED. WHERE WATERMANS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W23.
- CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3 & W25.4.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
- ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARD
- FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
- IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

STRUCTURE ID	TOP OF GRATE ELEVATION	INVERT IN	INVERT OUT	SAN STRUCTURE TABLE		DESCRIPTION	NOTES
				INSULATION REQUIRED ON OUTLET PIPE?	SIZE		
SAMH1	65.92	62.70	62.64±	62.64±	N	1200mm DIA, OPSD 701.010	S24
SAMH2	66.03	62.92	62.86	62.86	N	1200mm DIA, OPSD 701.010	S24

STRUCTURE ID	TOP OF GRATE ELEVATION	INVERT IN	INVERT OUT	STORM STRUCTURE TABLE		DESCRIPTION	NOTES
				INSULATION REQUIRED ON OUTLET PIPE?	SIZE		
DD1	66.00				N		Parking garage deck drain
CBMH1	66.14	64.78	64.72	Y	1200mm DIA,	OPSD 701.010	S28.1
CB1	66.20		65.00	Y	600X600mm	OPSD 705.010	S19.1
CB2	66.07		64.56	Y	600X600mm	OPSD 705.010	S19.1
CB3	66.30		65.10	Y	600X600mm	OPSD 705.010	S19.1
STMH1	66.18	64.54	64.54	Y	1200mm DIA,	OPSD 701.010	S24.1
STMH2	66.14	63.74	63.71	N	1800mm DIA,	OPSD 701.012	Stormceptor Model EFO6
STMH3	66.14	63.59±	63.65	63.59±	N	1200mm DIA,	S12.2 S24.1

PIPE CROSSING TABLE					
		Obvert		Invert	
1	150mm SAN	62.88	0.50	Clearance Under	63.38 200mm Ex. WM
2	200mm Ex. WM	63.38	0.29	Clearance Under	63.67 375mm STM
3	250mm Ex. SAN	63.05	0.61	Clearance Under	63.66 250mm STM
4	100mm STM FM	63.84	0.72	Clearance Under	64.56 250mm STM

no.	date	revision
7	2022-03-08	ISSUED FOR SPA REVISION 6
6	2022-02-14	ISSUED FOR SPA REVISION 5
5	2022-02-08	ISSUED FOR SPA REVISION 4
4	2021-12-17	ISSUED FOR SPA REVISION 3
3	2021-09-17	ISSUED FOR SPA REVISION 2
2	2021-07-23	ISSUED FOR SPA REVISION 1
1	2021-04-28	ISSUED FOR SPA

It is the responsibility of the appropriate contractor to check and verify all dimensions on site and report all errors and/or omissions to the architect.

All contractors must comply with all pertinent codes and by-laws. Do not scale drawings.

This drawing may not be used for construction until signed. Copyright reserved.

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PROJECT LOCATION:
100 BAYSHORE LOT "B"
WOODRIDGE CRESCENT

DRAWING TITLE:
SERVICING PLAN

DRAWN BY: DATE: SCALE:
EN / B.M. MAR 8, 2022 AS NOTED

PROJECT:
211-02810-00

DRAWING NO.:
C002

REVISION NO.: