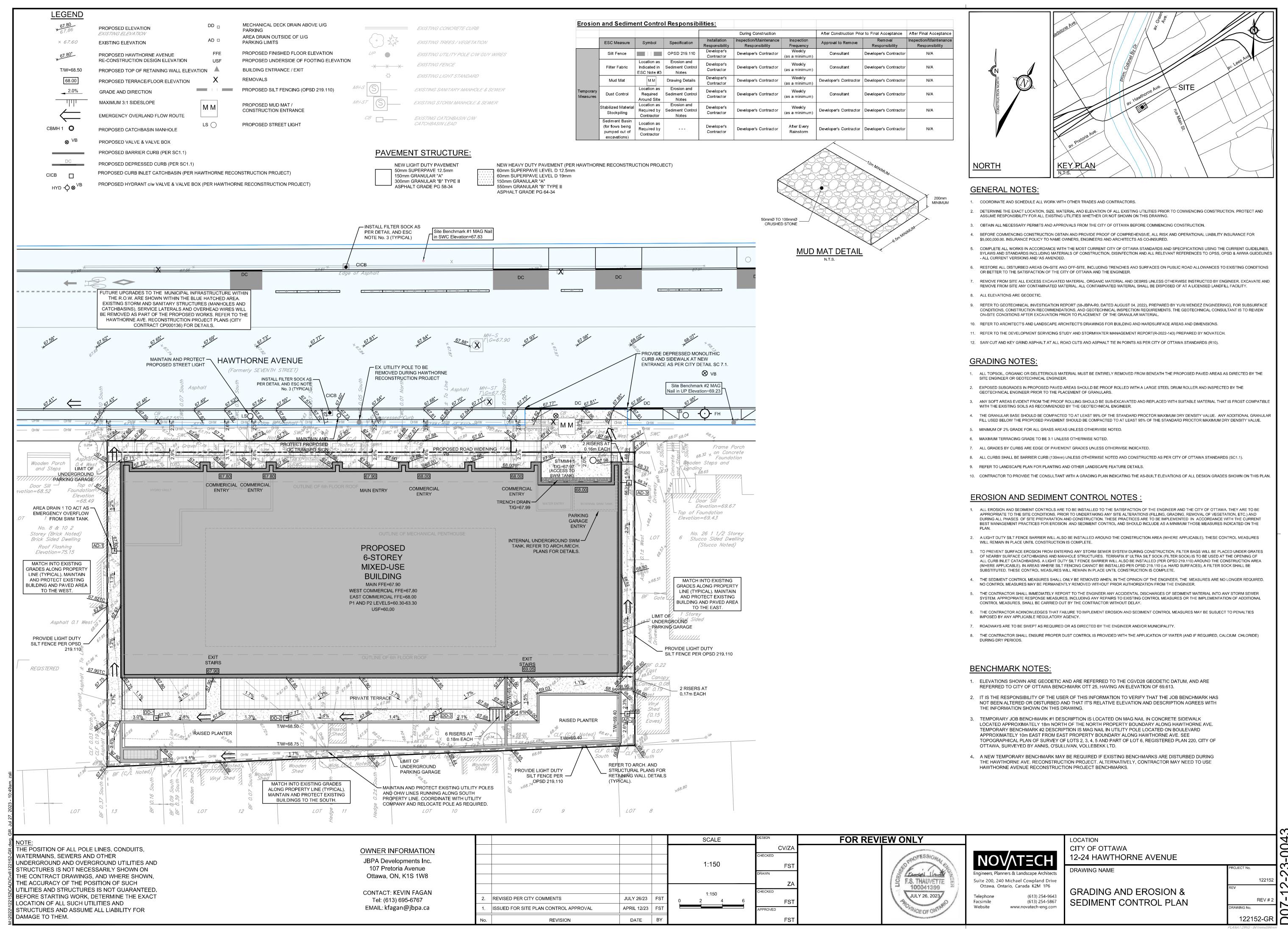


DATE

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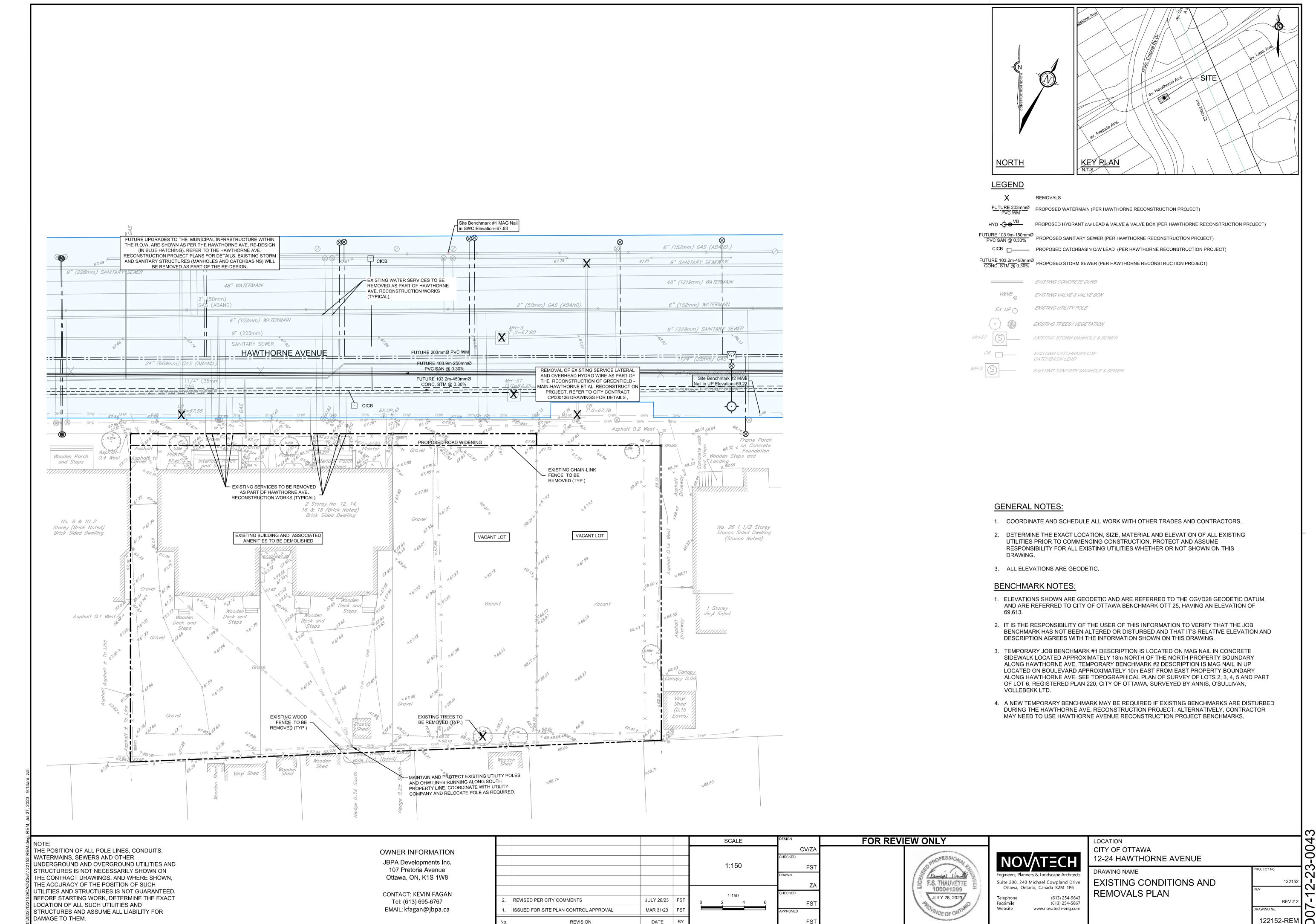
122152-GP PLAN#

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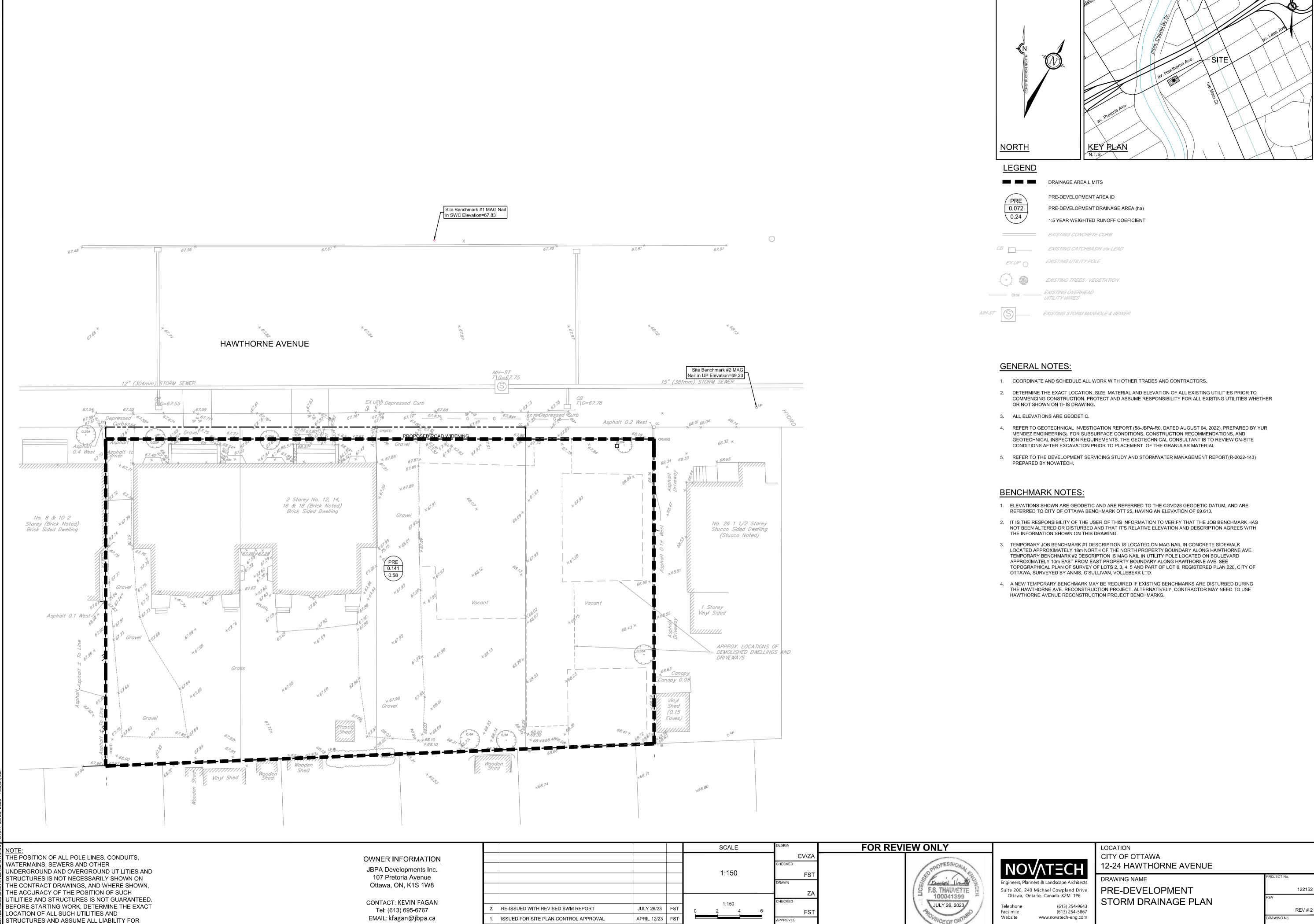


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122152-REM (\*\*) NA1.DWG - 841mmx594mm PLAN #\_\_\_\_



DATE

REVISION

DAMAGE TO THEM.

122152-STM1 PLANA 1. DWG - 841 mmx594mm PLAN #

## **GENERAL NOTES:** 1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS. 2. 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 THIS DRAWING. ALL ELEVATIONS ARE GEODETIC. 4. REFER TO GEOTECHNICAL INVESTIGATION REPORT (58-JBPA-R0, DATED AUGUST 04, 2022), PREPARED BY YURI MENDEZ ENGINEERING)., FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT. OF THE GRANULAR 5. REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT(R-2022-143) PREPARED BY NOVATECH. **BENCHMARK NOTES:** 1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, AND ARE REFERRED TO CITY OF 2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE JOB BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT IT'S RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS 3. TEMPORARY JOB BENCHMARK #1 DESCRIPTION IS LOCATED ON MAG NAIL IN CONCRETE SIDEWALK LOCATED APPROXIMATELY 18m NORTH OF THE NORTH PROPERTY BOUNDARY ALONG HAWTHORNE AVE. TEMPORARY BENCHMARK #2 DESCRIPTION IS MAG NAIL IN UTILITY POLE LOCATED ON BOULEVARD APPROXIMATELY 10m EAST FROM EAST PROPERTY BOUNDARY ALONG KEY PLAN NORTH HAWTHORNE AVE. SEE TOPOGRAPHICAL PLAN OF SURVEY OF LOTS 2, 3, 4, 5 AND PART OF LOT 6, REGISTERED PLAN 220, CITY OF OTTAWA, SURVEYED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. 4. A NEW TEMPORARY BENCHMARK MAY BE REQUIRED IF EXISTING BENCHMARKS ARE DISTURBED DURING THE HAWTHORNE AVE. RECONSTRUCTION PROJECT. ALTERNATIVELY, CONTRACTOR MAY NEED TO USE HAWTHORNE AVENUE RECONSTRUCTION PROJECT BENCHMARKS. LEGEND EXISTING CONCRETE CURB PROPOSED BARRIER CURB PROPOSED DEPRESSED CURB EXISTING CATCHBASIN Site Benchmark #1 MAG Nail DRAINAGE AREA LIMITS EXISTING UTILITY POLE in SWC Elevation=67.83 POST-DEVELOPMENT AREA ID EXISTING TREES / VEGETATION 0.072 POST-DEVELOPMENT DRAINAGE AREA (ha) EXISTING OVERHEAD CICB . UITILITY WIRES 0.24 1:5 YEAR WEIGHTED RUNOFF COEFICIENT PROPOSED CURB INLET CATCHBASIN CICB (PER HAWTHORNE RECONSTRUCTION PROJECT) FUTURE UPGRADES TO THE MUNICIPAL INFRASTRUCTURE WITHIN THE R.O.W. ARE SHOWN WITHIN THE BLUE HATCHED AREA. EXISTING STORM AND SANITARY STRUCTURES (MANHOLES AND CATCHBASINS), SERVICE LATERALS AND OVERHEAD WIRES WILL BE REMOVED AS PART OF THE PROPOSED WORKS. REFER TO THE HAWTHORNE AVE. RECONSTRUCTION PROJECT PLANS (CITY CONTRACT CP000136) FOR DETAILS. AREA DRAIN (AD-1), EMERGENCY OVERFLOW **ACCESS** HAWTHORNE AVENUE MANHOLE STORM WATER MANAGEMENT TANK (SWMT) Site Benchmark #2 MAG FUTURE 103.2m-450mmØ \_\_\_\_200mmØ STM \_\_\_\_\_\_\_\_ GRADE BUILDING STORM WATER · CICB STORM WATER DRAIN CONNECTIONS TO SWMT CONNECTION FROM SWMT TO MUNICIPAL SERVICES UNDERGROUND -SUMP PUMP CONTROL AUTOMATIC PANEL W/ START/STOP FLOAT-CONTROLLED COMMERICIAL COMMERCIAL FLOATS, PUMP STATUS COMMERCIAL SUMP PUMP, DISCHARGE ENTRY MAIN ENTRY ALARM, AND ENTRY ENTRY FLOW RATE 11 L/s HIGH-LEVEL ALARM (AUDIBLE & VISUAL), LOCATED ON P1 STMMH 1 TO PROVIDE ACCESS AD-1 TO ACT AS EMERGENCY PARKING GARAGE LEVEL OVERFLOW FROM SWM TANK. GARAGE TO SWM STORAGE TANK. STORMWATER MANAGEMENT TANK SCHEMATIC No. 8 & 10 2 No. 26 1 1/2 Storey Stucco Sided Dwelling Storey (Brick Noted) NOT TO SCALE (REFER TO ARCH./MECH. PLANS FOR DETAILS) Brick Sided Dwelling INTERNAL UNDERGROUND SWM (Stucco Noted) PROPOSED TANK. REFER TO ARCH./MECH. PLANS FOR DETAILS. 6-STOREY MIXED-USE BUILDING INTERNAL SWM STORAGE TANK MAIN FFE=67.90 DESIGN STORAGE SYSTEM STORAGE VOLUMES WEST COMMERCIAL FFE=67.80 EVENT CONTROLLED FLOW REQUIRED PROVIDED EAST COMMERCIAL FFE=68.00 8.4 m³ P1 AND P2 LEVELS=60.30-63.30 USF=60.00 LIMIT OF 1 Storey — UNDERGROUND Sided PARKING GARAGE

EXIT STAIRS

RAISED PLANTER

	1:5	YR	PUMPED FLOW	14.5 m³	>52 m³			
	1:100 YR 1:100+20%		RATE = 11.0 L/s	40.0 m³	252 III <sup>2</sup>			
				52.1 m³				
	NO <sup>-</sup>	ΓES:						
	ALL DRAINAGE FROM AREA A-2 (PROPOSED AMENITY AREA DECK DRAINS/AREA DRAINS AND ALL ROOF DRAINS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE SYSTEM. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR DETAILS.							
	2.	EXAC	R TO ARCHITECTURAL A IT SIZE AND DETAILS OF RAGE SYSTEM.					
	3.	3. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR LOCATION AND CONNECTIONS AND DETAILS OF THE INTERNAL STORMWATER STORAGE SYSTEM.						

	PROPOSED SITE	FLOWS & STORM	MWATER	MANAGEN	MENT TA	ABLE		
DESIGN EVENT	PRE-DEVELOPME	ENT CONDITIONS	POST-DEVELOPMENT CONDITIONS					
	UNCONTROLLED FLOWS (L/s)	ALLOWABLE RELEASE RATE (L/s)	A-1 FLOW (L/s)	A-2 FLOW (L/s)	TOTAL FLOW (L/s)	TOTAL REQUIRED STORAGE (m³)	REDUCTION IN FLOW (L/s or %)*	
1:2 YR	17.3		1.5		12.5	8.4	4.8 or 28 %	
1:5 YR	23.5	15.1	2.1	11.0	13.1	14.5	10.4 or 44 %	
1:100 YR	46.4		4.0		15.0	40.8	31.4 or 68%	

B(W	VIII Wooden Wide (C/L Noted)  LIMIT OF UNDERGROUND Wooden Shed				FILE-DEVELOPMENT CONDITIONS		FOST-DEVELOFIMENT CONDITIONS							
	Wo Viny Shed	Wooden Shed	Wide CC/L No	LIMIT OF UNDERGROUND PARKING GARAGE	Wooden Shed		DES EVI	IGN NT UNCONTR FLOWS		A-1 FLOW (L/s)	A-2 FLOW (L/s)	TOTAL FLOW F (L/s)	TOTAL R REQUIRED STORAGE (m³)	EDUCTION IN FLOW (L/s or %)*
1	vinyi sined y	neu	3± Souti	3.2± 500			1:2 1:5 1:10	YR 17.3 YR 23.5 YR 46.4	15.1	1.5 2.1 4.0	11.0	12.5 13.1 15.0	8.4 4 14.5 1 40.8 3	4.8 or 28 % 10.4 or 44 % 31.4 or 68%
			Hedge O.	Hedge (			*RED	JCED FLOW COMPAR	RED TO UNCONTROLLED PRE-D	EVELOPMENT CO	CONDITIONS FRO	VI THE CURREN	NT 0.141 HA S	SITE AREA.

Λ	NOTE:
۱	THE POSITION OF ALL POLE LINES, CONDUITS,
2-5	WATERMAINS, SEWERS AND OTHER
22\122152\CAD\Civil\122152-SWM.d	UNDERGROUND AND OVERGROUND UTILITIES AND
112	STRUCTURES IS NOT NECESSARILY SHOWN ON
Ξ	THE CONTRACT DRAWINGS, AND WHERE SHOWN,
ğ	THE ACCURACY OF THE POSITION OF SUCH
彡	UTILITIES AND STRUCTURES IS NOT GUARANTEED.
152	BEFORE STARTING WORK, DETERMINE THE EXACT
122	LOCATION OF ALL SUCH UTILITIES AND
22	STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.

EXIT

RAISED PLANTER

STAIRS

WNER INFORMATION
JBPA Developments Inc. 107 Pretoria Avenue
Ottawa, ON, K1S 1W8
CONTACT: KEVIN FAGAN

Tel: (613) 695-6767

EMAIL: kfagan@jbpa.ca

PRIVATE TERRACE

				SCALE	DESIGN		
					(	CV/ZA	
					CHECKED		
				1:150		FST	
					DRAWN		
						ZA	
				1:150	CHECKED		
2.	REVISED PER CITY COMMENTS	JULY 26/23	FST	0 2 4 6		FST	
1.	ISSUED FOR SITE PLAN CONTROL APPROVAL	APRIL 12/23	FST		APPROVED		
No.	REVISION	DATE	BY			FST	

F.S. THAUVETTE 100041399 JULY 26, 2023 (613) 254-9643 Telephone (613) 254-5867 Facsimile Website www.novatech-eng.com

**FOR REVIEW ONLY** 

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6

	LOCATION CITY OF OTTAWA 12-24 HAWTHORNE AVENU
tosts	DRAWING NAME

2-24 HAWTHORNE AVENUE	
RAWING NAME	12
OST-DEVELOPMENT 122152	[
TORM DRAINAGE PLAN	12
REV # 2	7
DRAWING No.	0
122152-STM2	Ď