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Legend

	PROPOSED WATERMAIN
	PROPOSED VALVE AND VALVE BOX
	PROPOSED FIRE HYDRANT
	PROPOSED SANITARY SEWER
	PROPOSED STORM SEWER
	PROPOSED CATCHBASIN
	PROPOSED FIRE DEPARTMENT CONNECTION
	EXISTING WATERMAIN
	EXISTING VALVE AND VALVE BOX
	EXISTING FIRE HYDRANT
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING CATCHBASIN
	PROPOSED DEPRESSED CURB LOCATIONS
	PROPOSED RETAINING WALL
	THERMAL INSULATION ON STORM SEWER WHERE COVER IS LESS THAN 1.5m. THERMAL INSULATION ON WATERMAIN WHERE COVER IS LESS THAN 2.4m AS PER W22.
	WATER METER
	PROPOSED SCUPPER LOCATIONS
	PROPOSED ROOF DRAINS
	ROAD CUT RESTATEMENT AS PER CITY OF OTTAWA DETAIL R10. ASPHALT MIX LEVEL & PG58-94 40mm SUPERPAVE 12.5mm SURFACE COURSE 50mm SUPERPAVE 19.0mm BASE COURSE

Notes

Revision	By	Appd.	YY.MM.DD
4	REVISION PER CITY COMMENTS	MS	DT 24.01.10
3	SITE CONTROL	TM	PM 23.08.30
2	SITE CONTROL	TM	PM 23.04.25
1	ISSUED FOR COORDINATION	TM	- 23.04.04

File Name:	SS	TM	TM	23.04.04
16401787	Dwn.	Chkd.	Dgn.	YY.MM.DD

Permit-Seal

Client/Project
PROJECT1 STUDIO

1184 CUMMINGS AVENUE

GLOUCESTER, ON

Title
SITE SERVICING PLAN

Project No.	Scale	0 2 6 10m
16401787	1:200	
Drawing No.	Sheet	Revision
SSP-1	2 of 7	4

SCHEDULE OF ROOF RELEASE RATES

DRAINAGE AREA ID	DRAIN TYPE	# DRAINS	SYR HEAD (m)	100 YEAR HEAD (m)	SYR RELEASE RATE (L/s)	100 YEAR RELEASE RATE (L/s)
BLDG-1	WATTS ACCUTROL (25% OPEN)	23	0.09	0.13	17.5	20.2

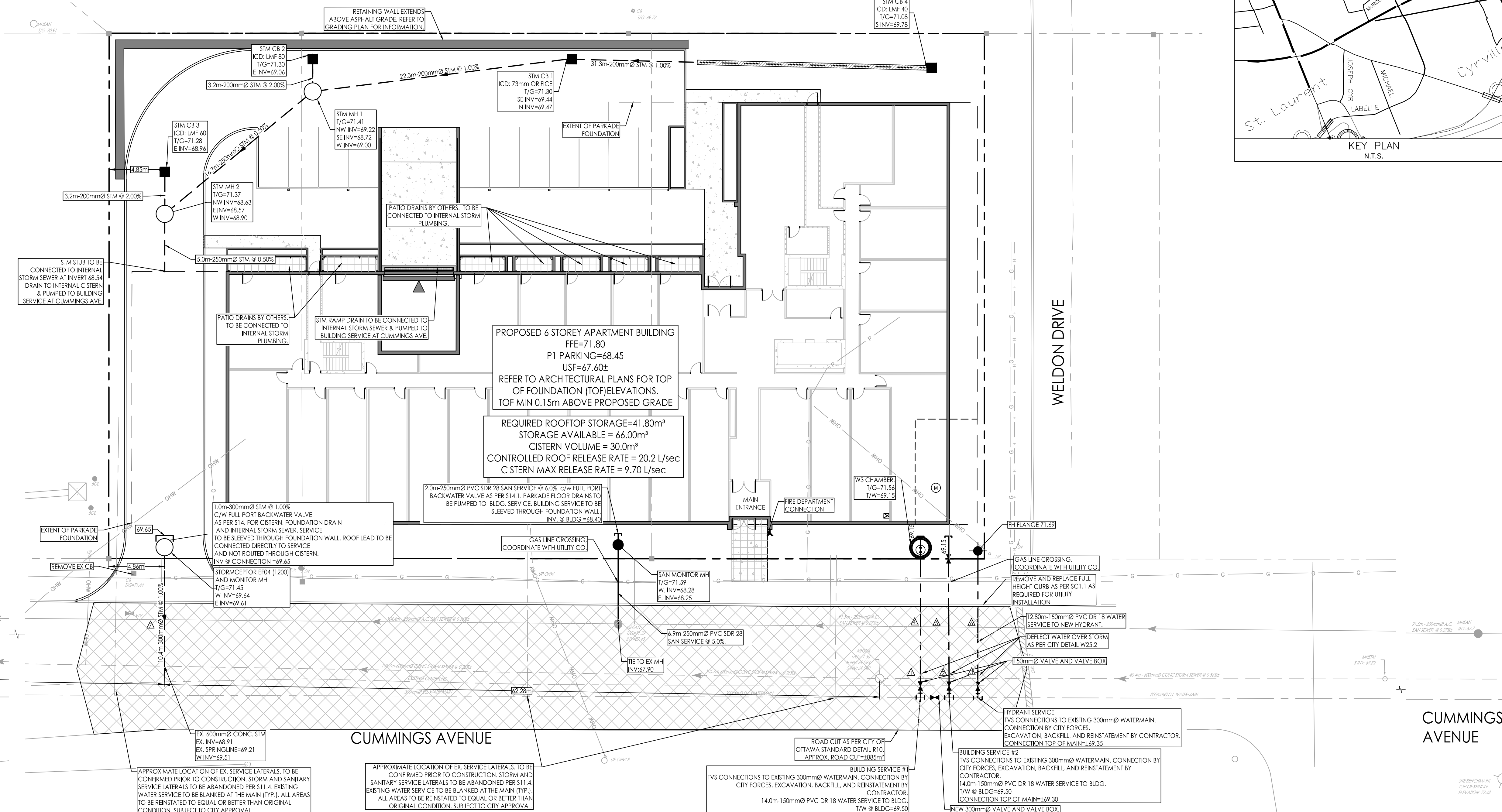
ICD TABLE

STRUCTURE ID	TRIBUTARY AREA ID	ICD TYPE	SYR HEAD (m)	100 YEAR HEAD (m)	SYR FLOW (L/s)	100 YEAR FLOW (L/s)
STM CB1	CB-1	73mm ORIFICE	1.9	2.0	9.2	14.8
STM CB2	CB-2	LMF 80	2.2	2.3	5.7	8.7
STM CB3	CB-3	LMF 60	2.3	2.4	4.9	5.0
STM CB4	CB-4	LMF 40	1.3	1.4	0.8	1.6

SEWER AND WATERMAIN CROSSING TABLE

CROSSING	STM INV	STM OBV	SAN INV	SAN OBV	WTR STM	WTR TOP	NOTES
1	69.10	69.70	-	-	70.25	70.25	DEFLECT WATER OVER STORM (AS PER W22.2)
2	69.11	69.71	-	-	70.10	70.25	DEFLECT WATER OVER STORM (AS PER W22.2)
3	69.12	69.72	-	-	70.10	70.25	DEFLECT WATER OVER STORM (AS PER W22.2)
4	-	-	67.52	67.77	69.00	69.15	
5	-	-	67.53	67.78	69.00	69.15	
6	-	-	67.54	67.79	69.00	69.15	
7	69.55	69.85	67.34	67.59	-	-	

*BRACKETED DENOTE ADJUSTED VALUE WITH CONCRETE PIPE THICKNESS



- #### STORM AND SANITARY SEWERS
- SEWER TRENCH SHALL CONSIST OF CLASS 'B' BEDDING PER CITY OF OTTAWA STANDARDS 56 AND 57. COMPACTION SHALL BE A MINIMUM OF 98% STANDARD PROCTOR DENSITY.
 - FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND CITY OF OTTAWA STANDARDS.
 - SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE FACE OF BUILDING UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING PICTORIAL REPORT, ONE (1) CD COPY AND TWO (2) VIDEO TAPES IN A FORMAT SATISFACTORY TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.
 - LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.
 - FROST PROTECTION PER CITY OF OTTAWA STANDARD DRAWING W22 WHERE THERE IS LESS THAN 2.1m OF COVER ABOVE THE SEWER SERVICES.
 - CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR SANITARY SEWERS IN ACCORDANCE WITH OPS5 410 AND OPS5 407. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.
 - STORM SERVICE CONNECTION AS PER CITY STD DWG S11.1; SANITARY SERVICE CONNECTION AS PER CITY STD DWG S11. SERVICES TO CONNECT TO THE OBEVET OF THE MAIN UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO VERIFY EXISTING SEWERS AND INVERTS, AND REPORT ANY DISCREPANCIES TO SITE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 - STORM AND SANITARY MANHOLES SHALL BE 1200mm DIAMETER IN ACCORDANCE WITH OPS5-701.01 (UNLESS OTHERWISE NOTED) C/W FRAME AND COVER AS PER CITY OF OTTAWA S24, S24.1, AND S25. STORM MANHOLES SHALL BE COMPLETED WITH 300mm SUMPS AS PER CITY STANDARDS. SANITARY MANHOLES SHALL NOT HAVE SUMPS.

- #### WATER SUPPLY SERVICING
- THE CONTRACTOR SHALL CONSTRUCT WATERMAIN, WATER SERVICES, CONNECTIONS & APPURTENANCES AS PER CITY OF OTTAWA SPECIFICATIONS & SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION & DISINFECTION BY CITY PERSONNEL.
 - WATER SERVICE TO BE INSTALLED 1.0m OFF BUILDING FACE. STAND POST TO BE INSTALLED AT PROPERTY LINE AS SHOWN ON DRAWINGS.
 - WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W17 UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL TO BE SPECIFIED BY PROJECT GEOTECHNICAL CONSULTANT.
 - SERVICE CONNECTIONS SHALL BE INSTALLED A MINIMUM OF 2400mm FROM ANY CATCHBASIN, MANHOLE, OR OBJECT THAT MAY CONTRIBUTE TO FREEZING. THERMAL INSULATION SHALL BE INSTALLED ON ALL PROPOSED STRUCTURES AND WATER SERVICES ON THE W/M STREET SIDE WHERE 2400mm SEPARATION CANNOT BE ACHIEVED (AS PER CITY OF OTTAWA W22 & W23).
 - CATHODIC PROTECTION TO BE SUPPLIED ON METALLIC FITTINGS AS PER CITY OF OTTAWA W40 AND W42.
 - ALL WATERMAIN BENDS, JOINTS, TEES AND PLUGS SHALL BE MECHANICALLY RESTRAINED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
 - WATERMAIN TO HAVE MIN. 2.4m COVER. WHERE WATERMAIN COVER IS LESS THAN 2.4m, INSULATION TO BE SUPPLIED IN ACCORDANCE WITH CITY STANDARD W22.
 - WATERMANS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE. WHERE HORIZONTAL SEPARATIONS CANNOT BE ACHIEVED, APPROVAL FROM THE ENGINEER MUST BE OBTAINED AND A MINIMUM 500mm VERTICAL SEPARATION MUST BE MAINTAINED.
 - ALL WATERMANS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL DISCHARGED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND TREATED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/OR PROVINCIAL REQUIREMENTS ARE FOLLOWED.

- #### GENERAL NOTES
- ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
 - ALL WORK AND MATERIALS TO CONFORM WITH CURRENT MINISTRY OF THE ENVIRONMENT & ENERGY OF ONTARIO, CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
 - THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND COORDINATION WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
 - THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE THE CONTRACTORS EXPENSE.
 - ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.
 - ALL DISTURBED AREAS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE ENGINEER AND THE CITY. PAVEMENT RESTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH: CITY STANDARD R10, OPS5 509.010 AND OPS5 310.
 - BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON DRAWING GP-1.

- THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER 1 (ONE) SET OF AS CONSTRUCTED SITE SERVICING, GRADING, AND SITE ELECTRICAL DWGS.
- EXISTING STORM AND SANITARY SERVICE LATERALS TO BE ABANDONED PER S11.4. EXISTING WATER SERVICE TO BE BLANKED AT THE MAIN (TYP.)
- TOPOGRAPHIC SURVEY SUPPLIED BY STANTEC GEOMATICS LTD. DATED MARCH 16, 2023.
BENCHMARK 1: TOP OF SPINDLE LOCATED EAST OF CUMMINGS AVE. AND NORTH OF THE PROPOSED DEVELOPMENT WITH AN ELEVATION OF 72.43.
ELEVATIONS SHOWN HEREON ARE GEODETIC (CGVD-1928:1978) AND ARE DERIVED FROM THE CAN-NET VRS NETWORK MONUMENT: OTTAWA ELEVATION=95.230.
- SITE PLAN PREPARED BY PROJECT1 STUDIO DATED MARCH 31, 2023 DRAWING NO. SP-01.
- GEOTECHNICAL INVESTIGATION PG404-1 PREPARED BY PATRICK GROUP DATED MARCH 27, 2023. GEOTECHNICAL INFORMATION PRESENTED ON THESE DRAWINGS MAY BE INTERPOLATED FROM THE ORIGINAL REPORT. REFER TO ORIGINAL GEOTECHNICAL REPORT FOR ADDITIONAL DETAILS AND TO VERIFY ASSUMPTIONS MADE HERE.
- FINAL METER LOCATIONS TO BE CONFIRMED BY MECHANICAL CONSULTANT.
- EXISTING AS-RECORDED SEWER AND WATER INFORMATION HAS BEEN DERIVED FROM AS-BUILT INFORMATION PROVIDED BY THE CITY OF OTTAWA.
- CONTRACTOR TO VERIFY AS-RECORDED INFORMATION AND IMMEDIATELY REPORT ANY DISCREPANCIES OR CONFLICTS TO CIVIL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR THEIR PROTECTION AND THE IMPLEMENTATION OF ANY NECESSARY PROCEDURES CALLED FOR IN THE APPROPRIATE STANDARD AND REGULATIONS.
- SERVICE SIZES AND ELEVATIONS TO BE CONFIRMED BY MECHANICAL ENGINEER.
- INTERNAL PLUMBING AND PUMP PUMPS TO BE DESIGNED BY THE MECHANICAL CONSULTANT.
- UNDERGROUND PARKING STRUCTURE FLOOR DRAINS TO BE CONNECTED TO SANITARY SEWER SERVICE.

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