

## **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 (PG6401-1, DATED OCTOBER 26, 2022), PREPARED BY PATERSON GROUP INC., 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 MATERIAL.
- 5. REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT(R-2022-151)

## **BENCHMARK NOTES:**

- 1. ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF OTTAWA CONTROL POINT 2011-0007 HAVING A PUBLISHED ELEVATION OF 80.55 METRES.
- 2. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE SITE BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.
- 3. BENCHMARK WAS PROVIDED ON SURVEYOR'S REAL PROPERTY REPORT WITH TOPOGRAPHIC DETAILS PART 1 - PLAN SHOWING LOT 47 (SOUTH SIDE OF LISGAR STREET), REGISTERED PLAN NO. 12281, CITY OF OTTAWA, SURVEYED BY J.D. BARNES LIMITED (REF. # 21-10-108-00).



PROPOSED BARRIER CURB PROPOSED DEPRESSED CURB

DRAINAGE AREA LIMITS

POST-DEVELOPMENT AREA ID 0.072 POST-DEVELOPMENT DRAINAGE AREA (ha) 0.24 1:5 YEAR WEIGHTED RUNOFF COEFICIENT

PROPOSED CATCHBASIN MANHOLE

--- PROPOSED STORM SEWER OVERLAND FLOW ROUTE

EXISTING CONCRETE CURB

WK \_\_\_\_ EXISTING WATER KEY

EXISTING CATCHBASIN

EXISTING UTILITY POLE

INTERNAL SWM STORAGE SYSTEM								
DESIGN	STORAGE SYSTEM CONTROLLED FLOW	STORAGE VOLUMES						
EVENT		REQUIRED	PROVIDED					
1:2 YR	PUMPED FLOW RATE = 3.2 L/s	5.7 m³	>30 m³					
1:5 YR		9.1 m³						
1:100 YR		23.0 m³						
1:100+20%		29.5 m³						
NOTES:  1. ALL DRAINAGE FROM AREA A-2 (PROPOSED AMENITY AREA DECK DRAINS AND ALL ROOF DRAINS) TO BE DIRECTED TO THE INTERNAL STORMWATER STORAGE SYSTEM. REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR DETAILS.  2. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT SIZE AND DETAILS OF INTERNAL STORMWATER STORAGE SYSTEM.								
3. REFE	REFER TO ARCHITECTURAL AND MECHANICAL PLANS FOR							

LOCATION AND CONNECTIONS AND DETAILS OF THE INTERNAL STORMWATER STORAGE SYSTEM AND PIPING.

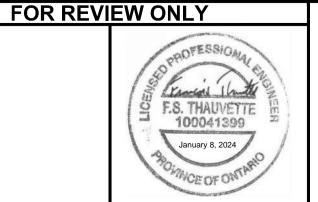
PROPOSED SITE FLOWS & STORMWATER MANAGEMENT TABLE										
DESIGN EVENT	PRE-DEVELOPMENT CONDITIONS		POST-DEVELOPMENT CONDITIONS							
	UNCONTROLLED FLOWS (L/s)	ALLOWABLE RELEASE RATE (L/s)	A-1 FLOW (L/s)	A-2 FLOW (L/s)	TOTAL FLOW (L/s)	TOTAL REQUIRED STORAGE (m³)	REDUCTION IN FLOW (L/s or %)*			
1:2 YR	13.3		1.5	3.2	4.7	5.7	8.6 or 65 %			
1:5 YR	18.0	7.4	2.1	3.2	5.3	9.1	12.7 or 71 %			
1:100 YR	34.3		4.0	3.2	7.2	23.0	27.1 or 79%			
REDUCED FLOW COMPARED TO UNCONTROLLED PRE-DEVELOPMENT CONDITIONS FROM THE CURRENT 0.069 HA SITE AREA.										

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR

DAMAGE TO THEM.

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CITY OF OTTAWA 230-232 LISGAR STREET DRAWING NAME

POST-DEVELOPMENT STORM DRAINAGE AREA PLAN

REV # 3 122160-SWM2

-01