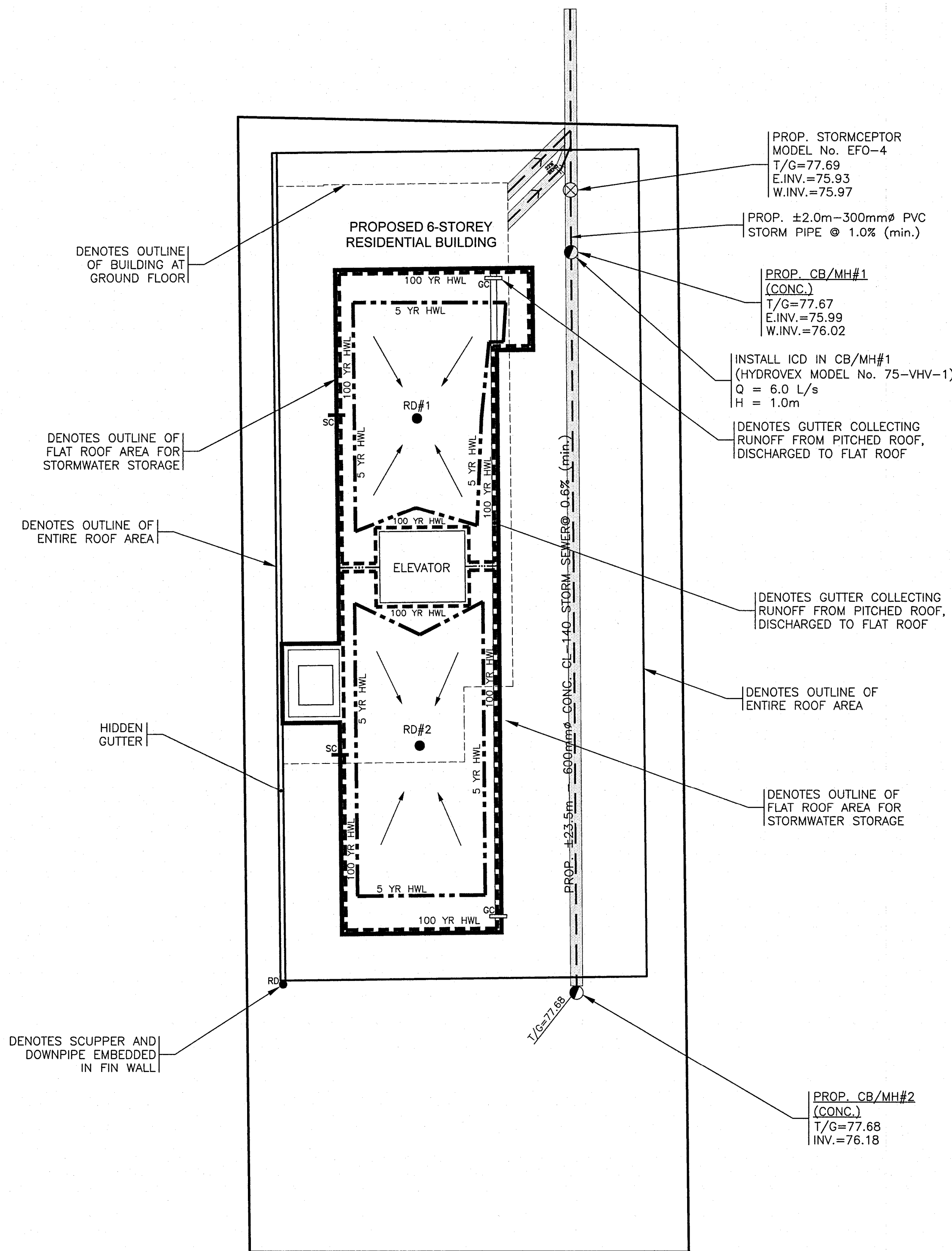
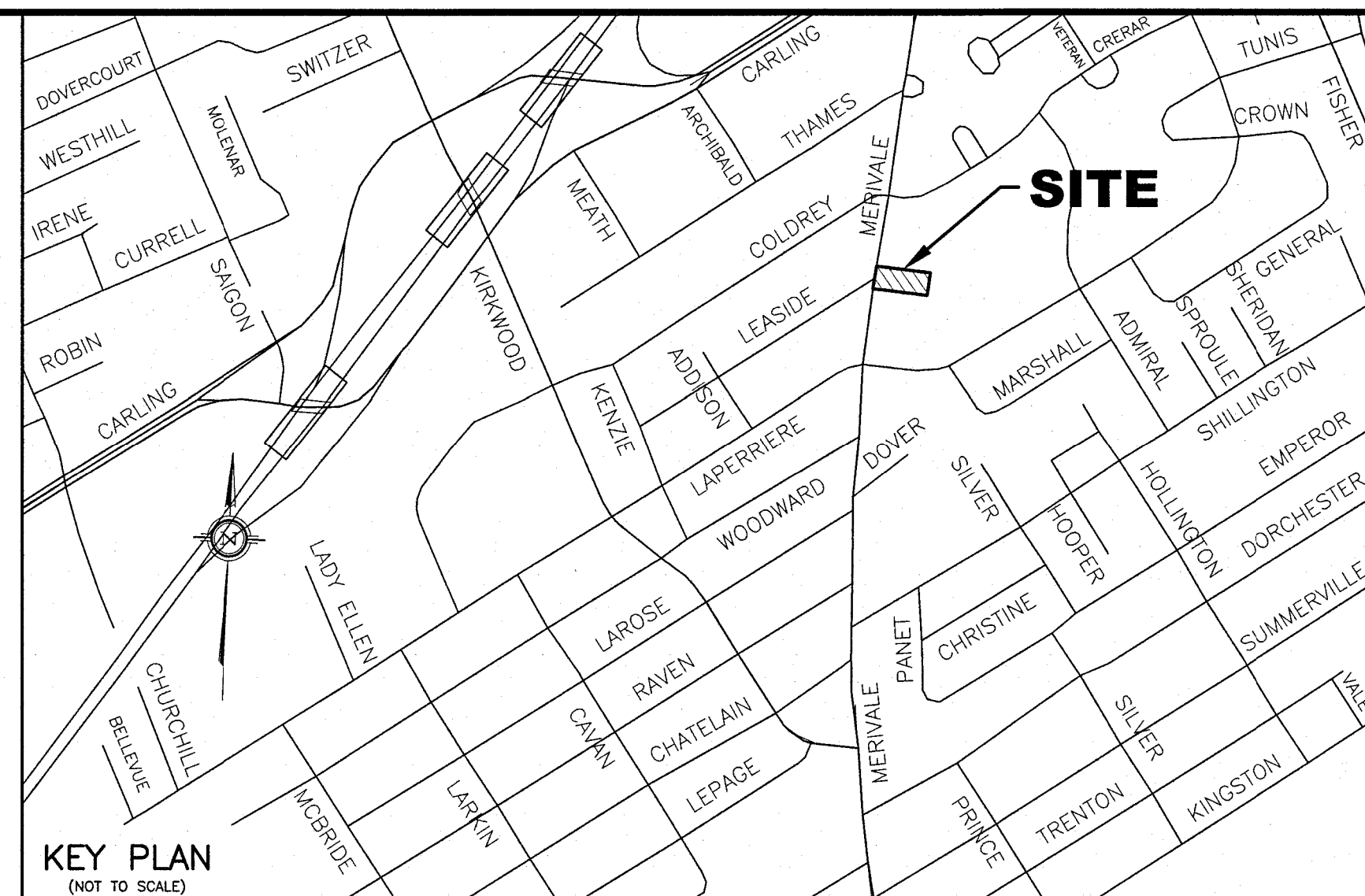


MERIVALE ROAD



LEGEND

- 100 YR HIGH WATER LEVEL
- 5 YR HIGH WATER LEVEL
- PROPOSED HIGH RIDGE LINE
- PROPOSED ROOF DRAIN
- PROPOSED OVERFLOW ROOF SCUPPER LOCATION
- PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW
- PROPOSED MAJOR OVERLAND FLOW ROUTE
- DRAINAGE AREA IN HECTARES
- COEFFICIENT OF RUNOFF
- DENOTES GUTTER COLLECTING RUNOFF FROM PITCHED ROOF, DISCHARGED TO FLAT ROOF



KEY PLAN
(NOT TO SCALE)

NOTES

- STORMWATER MANAGEMENT NOTES
- ROOF DRAIN DETAILS
- MODEL TYPE: WATTS MODEL "ADJUSTABLE ACCUTROL WEIR" (MODEL No. RD-100A-ADJ), WEIR OPENING EXPOSED TO BE SPECIFIED AS FOLLOWS:
- DEPTH AND VOLUME:

ROOF AREA ID & DRAINAGE AREA (ha)	NUMBER OF ROOF DRAINS	WATTS ROOF DRAIN MODEL ID (WEIR OPENING)	CONTROLLED FLOW PER DRAIN (L/s)		APPROXIMATE PONDING DEPTH ABOVE DRAINS (m)		STORAGE VOLUME REQUIRED (m ³)		MAX. STORAGE AVAILABLE (m ³)
			5 YR	100 YR	5 YR	100 YR	5 YR	100 YR	
No. 1 (0.0113 ha)	1	RD-100A-ADJ (1/2 OPENING EXPOSED)	1.10	1.26	0.12	0.15	0.72	2.02	2.35
No. 2 (0.0088 ha)	1	RD-100A-ADJ (3/4 OPENING EXPOSED)	1.34	1.58	0.12	0.15	0.97	2.63	2.69
TOTAL ROOF (0.0201 ha)	2		2.44	2.84	-	-	1.69	4.65	5.04

NUMBER OF CONTROL DEVICES: 1 CONTROLLED ROOF DRAINS PER DESIGNATED FLAT ROOF AREA FOR SWM ATTENUATION

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN AT THE (2) PROPOSED DRAINS = 2.84 L/s

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 120mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1 AND #2

100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1 AND #2

EACH ROOF DRAIN SHALL BE SIZED FOR A (MAXIMUM) RELEASE RATE AS SPECIFIED ABOVE UNDER A HEAD OF 150mm. THE OWNER'S MECHANICAL ENGINEER SHALL SPECIFY THE REQUIRED ROOF DRAIN TYPE AND MODEL No. AND PROVIDE THE NECESSARY INFORMATION TO THE CITY OF OTTAWA FOR THEIR RECORDS TO ENSURE PROPER RELEASE RATE FOR STORMWATER MANAGEMENT COMPLIANCE.

ROOF PITCH IS ASSUMED TO HAVE 2.0% (MIN.) SLOPE.

OVERFLOW ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 AND #2 AT PERIMETER OF FLAT BUILDING ROOFTOP.

SEE LATEST REVISED STORM DRAINAGE REPORT No. R-823-102 DATED AUGUST 2024 FOR DETAILS ALSO.

PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S BUILDING DESIGNER FOR APPROVAL.

THE OWNER'S BUILDING DESIGNER AND STRUCTURAL ENGINEER SHALL ENSURE THAT THE ADDITIONAL STORMWATER STORAGE VOLUME FROM STORMWATER MANAGEMENT MEASURES ARE ACCOUNTED FOR IN THE STRUCTURAL DESIGN OF AND WATERPROOFING OF ROOF AREA No. 1 AND ROOF AREA No. 2 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

ROOF DRAIN #1 AND #2 SHALL OUTLET INTO THE DESIGNATED 150mmØ PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 823-102, G-1).

SITE STORAGE VOLUME FROM PROPOSED OVERSIZED UNDERGROUND DRAINAGE PIPES AND STRUCTURES:

EVENT	NON-ROOF AREA ESTIMATED HWL ON-SITE	CALCULATED MINIMUM VOLUME (m ³)	AVAILABLE SITE STORAGE VOLUME (m ³) (FROM OVERSIZED STORM PIPES)
5 YR	76.48m	3.57	4.0
100 YR	77.18m	8.72	8.90

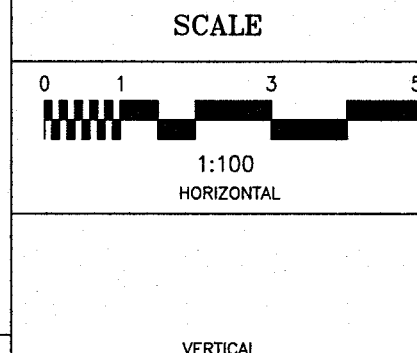
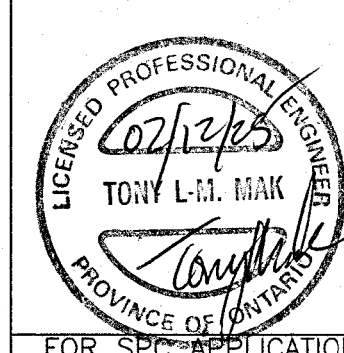
FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 823-102, G-1.

ESTIMATED 5-YEAR HWL FOR THE SITE EXCLUDING THE AVAILABLE FLAT ROOF TOP AREA = 76.48m AND THE 100-YEAR HWL = 77.18m ON-SITE (ALL CONFINED WITHIN PROPOSED UNDERGROUND DRAINAGE SYSTEM).

APPROVED
By Lily Xu at 4:36 pm, May 12, 2025

LILY XU, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, DEVELOPMENT, AND BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA

No.	REVISION	DATE	BY
3	REVISIONS AS PER CITY'S REVIEW COMMENTS OF JANUARY 24, 2025	02/12/25	TLM
2	ISSUED FOR PERMIT	01/17/25	TLM
1	ISSUED FOR SITE PLAN APPLICATION - 2ND SUBMISSION	11/05/24	TLM



DESIGN	T.L.M.
CHECKED	T.L.M.
DRAWN BY	P.M.
CHECKED	T.L.M.
APPROVED	T.L.M.

PROJECT	917 MERIVALE ROAD LOT 1 REGISTERED PLAN 268160 CITY OF OTTAWA
DRAWING TITLE	PROPOSED STORMWATER MANAGEMENT PLAN

T.L. MAK ENGINEERING CONSULTANTS LTD. CONSULTING ENGINEERS		
PROJECT No.	DATE	DRAWING No.
823-102	JULY 2024	SWM-1