\_\_\_\_\_\_ F-----<u>\_\_\_\_\_</u> ----PROPOSED BUILDING -----FIREWALL LOCATION 100 YR HWL 100 YR HWL BALCONY BELOW CANOPY BELOW

# SUMMERVILLE AVENUE

# **NOTES**

1. STORMWATER MANAGEMENT NOTES

#### ROOF DRAIN DETAILS

MODEL TYPE: WATTS MODEL "ADJUSTABLE ACCUTROL WEIR" (MODEL No. RD-100A-ADJ), (WEIR OPENING EXPOSED IS : 1/4 OPENING AS SPECIFIED) TO PERMIT A RELEASE FLOW RATE OF 15.0 US GAL/MIN. OR 0.95 L/s UNDER A HEAD OF UP TO 150mm. NUMBER OF CONTROL DEVICES: 1 CONTROLLED ROOF DRAIN PER DESIGNATED ROOF AREA

FLOW PER ROOF DRAIN: 15.0 U.S. GAL/MIN. OR 0.95 L/s.

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN

AT THE (3) PROPOSED DRAINS = 2.85 L/s

DEPTH AND VOLUME:

FOR SWM ATTENUATION

ROOF DRAIN 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 (m³)		MAX. STORAGE AVAILABLE (m°)
			2 YR	100 YR	2 YR	100 YR	2 YR	100 YR	AVAILABLE (m.)
RD-1 (0.0282 ha)	1	RD-100-A-ADJ (1/4 OPENING EXPOSED)	0.79	0.95	0.10	0.15	3.70	12.42	13.85
RD-2 (0.0262 ha)	1	RD-100-A-ADJ (1/4 OPENING EXPOSED)	0.79	0.95	0.10	0.15	3.32	11.26	12.95
RD-3 (0.0389 ha)	1	RD-100-A-ADJ (1/4 OPENING EXPOSED)	0.79	0.95	0.10	0.15	5.82	18.90	19.62
TOTAL ROOF (0.0933 ha)	3		2.37	2.85	_	-	12.84	42.58	46.42

## SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

2 YEAR ELEVATION: 100mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2 AND #3 WITH RELEASE RATE OF 0.79 L/S PER DRAIN. 100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2 AND #3 WITH RELEASE RATE OF 0.95 L/s PER DRAIN.

- EACH ROOF DRAIN SHALL BE SIZED FOR A MAXIMUM RELEASE RATE OF 15.0 U.S. GAL/MIN. OR 0.95 L/s. 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 1.1% (MIN.) SLOPE.

- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED Omm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1, #2 AND #3 AT PERIMETER OF BUILDING.

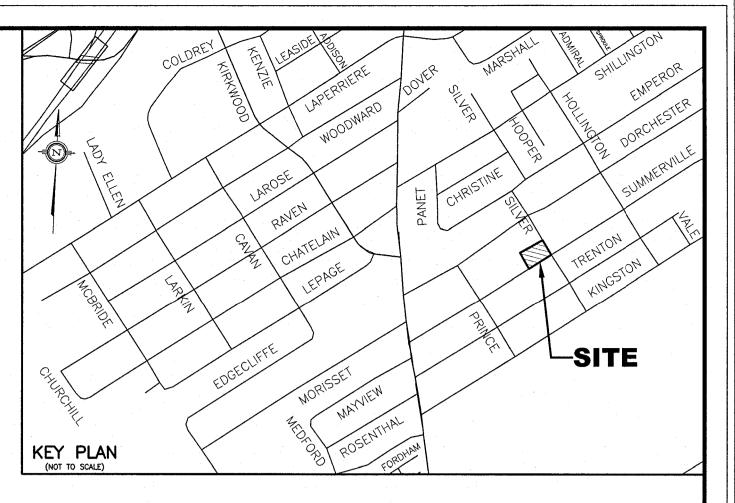
- SEE STORM DRAINAGE REPORT No. R-821-10 REV. No. 2 DATED FEBRUARY 2023 FOR DETAILS ALSO.

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

3. 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 #1, #2 AND #3 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

4. ROOF DRAIN #1, #2 AND #3 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 150mm $\emptyset$  PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 821-10, G-1).

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 821-10, G-1.



### LEGEND

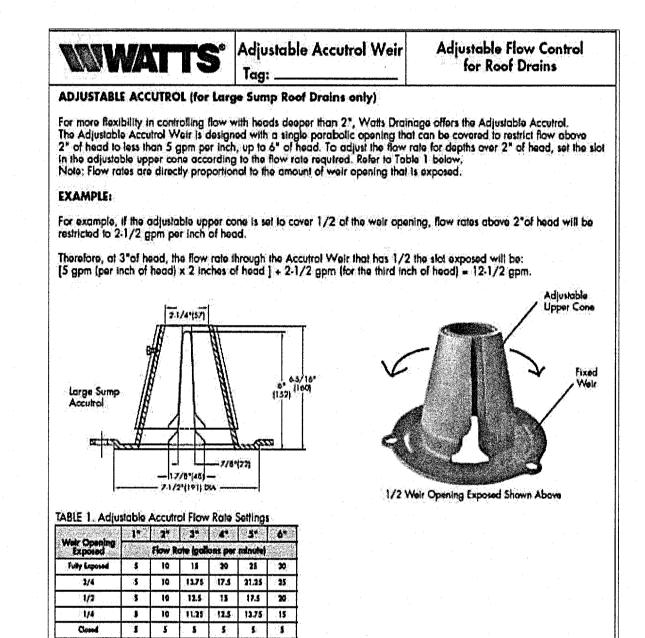
100 YR HIGH WATER LEVEL

2 YR HIGH WATER LEVEL

PROPOSED HIGH RIDGE LINE PROPOSED ROOF DRAIN

PROPOSED ROOF SCUPPER LOCATION

PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW



REVISIONS AS PER ARCHITECT'S LATEST SITE PLAN DETAILS OF MARCH 17, 2022 AND CITY'S REVIEW COMMENTS OF OCTOBER 15, 2021 03/22/22

AND CITY'S REVIEW COMMENTS OF JANUARY 31, 2023

S



SCALE			DESIGN	T.L.M.	. 1.	PROJECT	
0	1.25m	3.75m	6.25m	CHECKED	T.L.M.		
'	1:125 HORIZONTAL			DRAWN BY	P.M.		
				CHECKED	T.L.M.		DRAWING TITLE

1058, 1062 AND 1066 SILVER STREET PART OF LOT 31 REGISTERED PLAN 294 CITY OF OTTAWA

PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN T.L. MAK ENGINEERING CONSULTANTS LTD. CONSULTING ENGINEERS

APRIL 2021

SWM-1