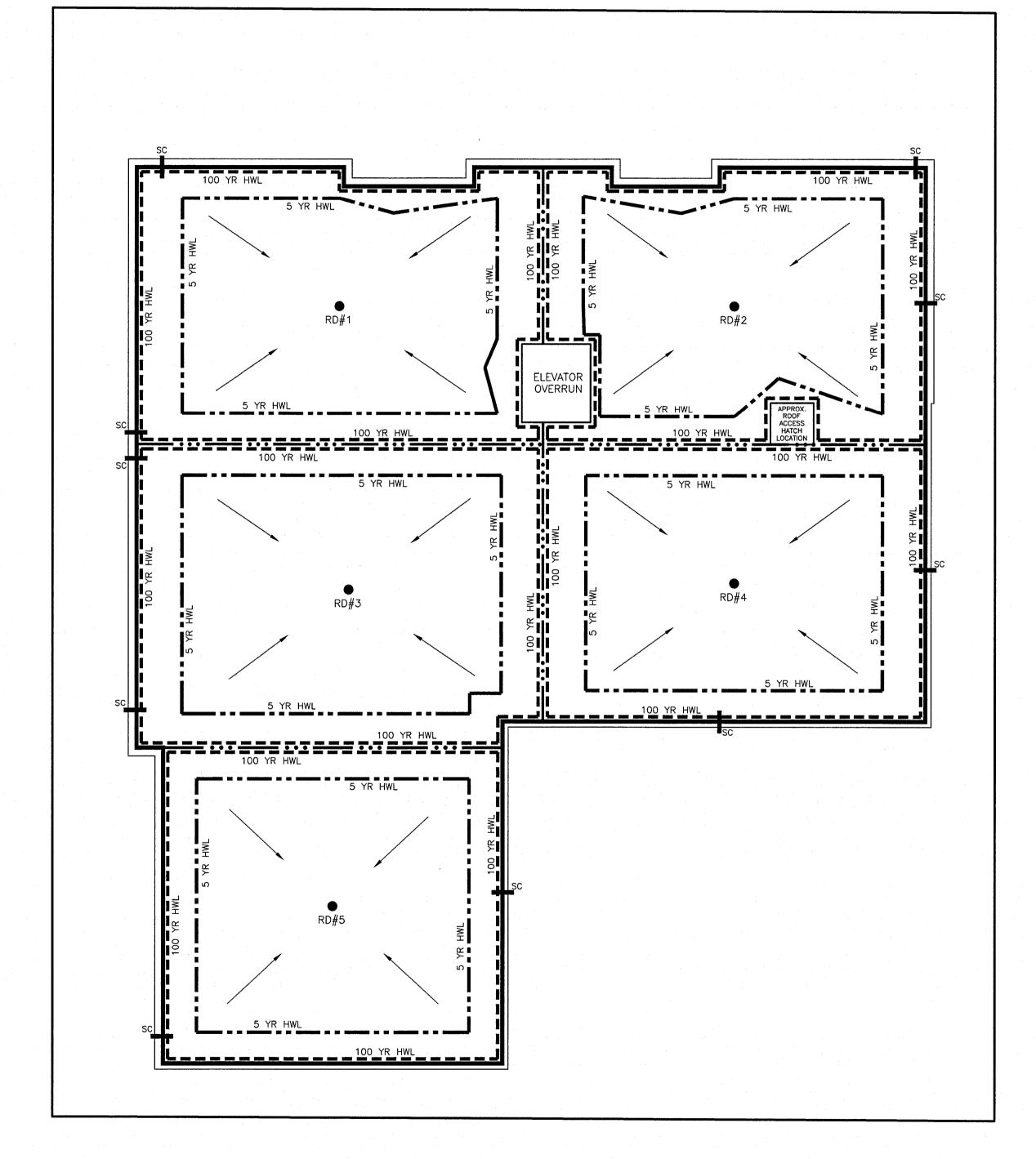


DONALD STREET



NOTES

1. STORMWATER MANAGEMENT NOTES

ROOF DRAIN DETAILS

FOR SWM ATTENUATION

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

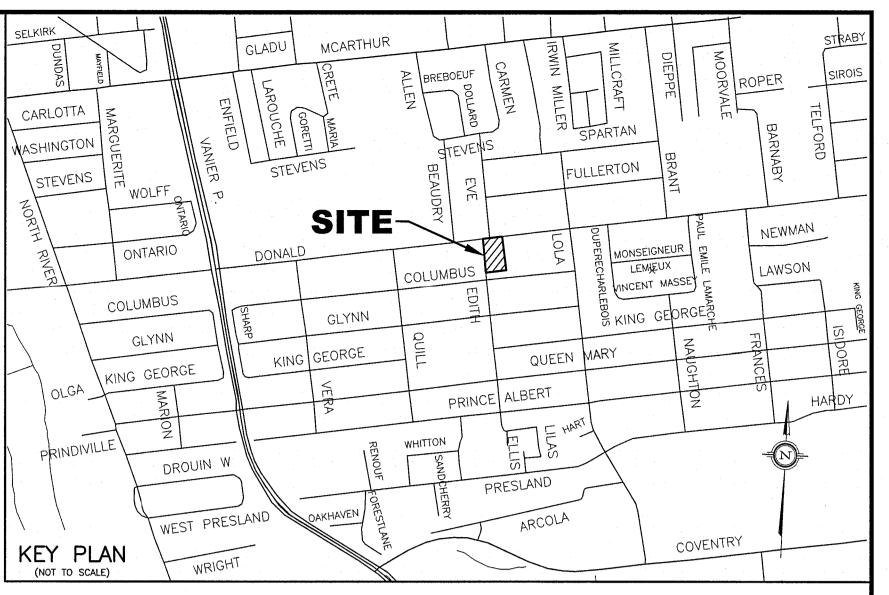
AT THE (5) PROPOSED DRAINS = 4.75 L/s

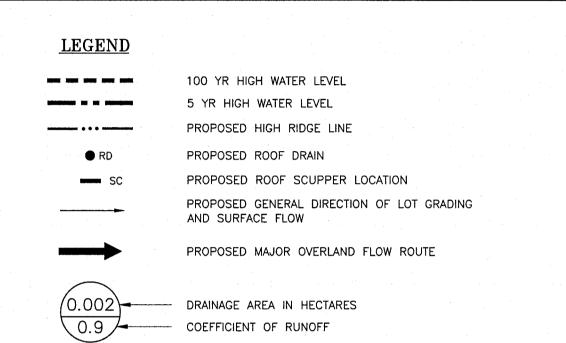
DEPTH AND VOLUME:

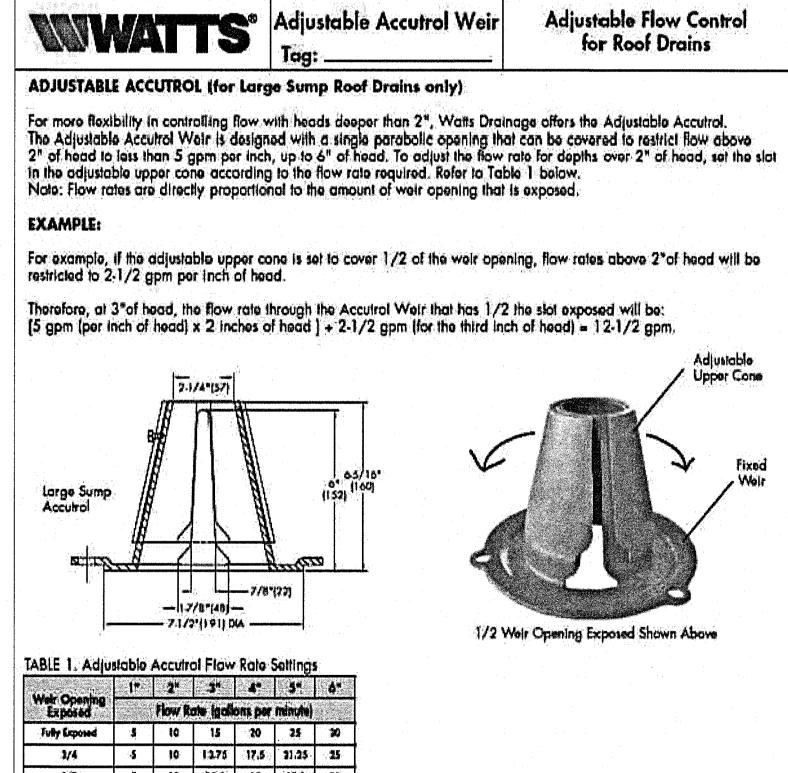
ROOF DRAIN ID & DRAINAGE AREA (ha)	NUMBER OF ROOF DRAINS	WATTS ROOF DRAIN MODEL ID (WEIR OPENING)	CONTROLLED FLOW PER DRAIN (L/s)		APPROXIMATE PONDING DEPTH ABOVE DRAINS (m)		STORAGE VOLUME REQUIRED (m³)		MAX. STORAGE	
			5 YR	100 YR	5 YR	100 YR	5 YR	100 YR	AVAILABLE (m')	
RD-1 (0.0120 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	1.49	3.91	5.80	
RD-2 (0.0113 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	1.35	3.49	5.28	
RD-3 (0.0132 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	1.74	4.37	6.23	
RD-4 (0.0115 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	1.39	3.58	5.46	
RD-5 (0.0117 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.87	0.95	0.12	0.15	1.43	3.67	5.44	
TOTAL ROOF (0.0597 ha)	5	. <u></u>	_	-		-	7.40	19.02	28.21	

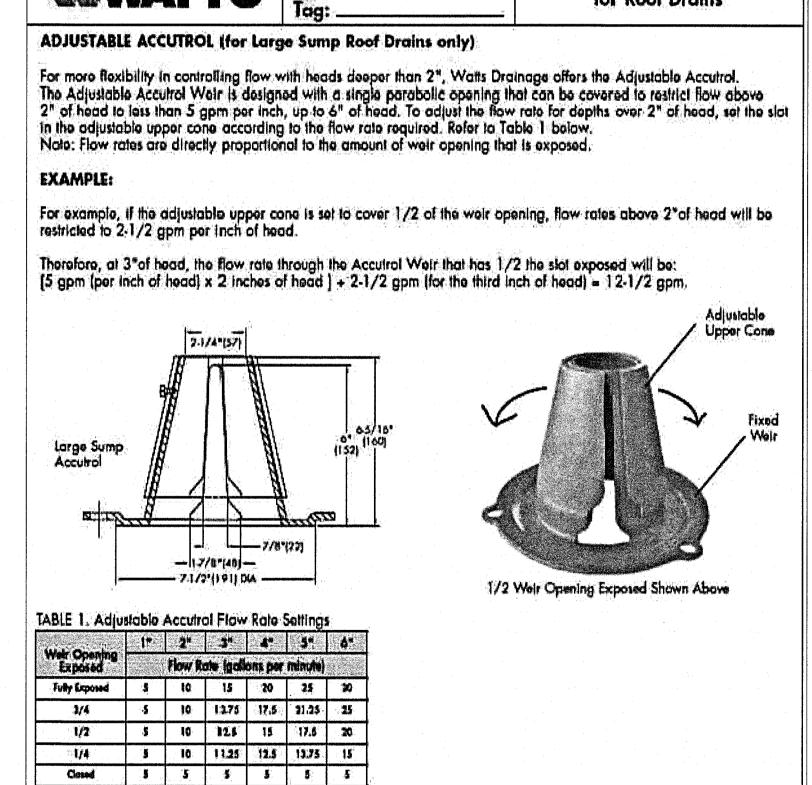
SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

- 5 YEAR ELEVATION: 120mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1 #2, #3, #4 AND #5
- 100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1 #2, #3, #4 AND #5
- EACH ROOF DRAIN SHALL BE SIZED FOR A 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 1.8% (MIN.) SLOPE.
- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 #2, #3, #4 AND #5 AT PERIMETER OF BUILDING.
- SEE STORM DRAINAGE REPORT No. R-824-63 DATED JULY 2024 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, #3, #4 AND #5 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED
- 4. ROOF DRAIN #1 #2, #3, #4 AND #5 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 150mmø PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 824-63, G-1).
- 5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 824-63, G-1.









	No.	REVISION	DATE	BY	
	1	REVISIONS AS PER CITY'S REVIEW COMMENTS OF NOV. 6, 2024 AND ARCHITECT'S REVISED SITE PLAN PROVIDED ON NOV. 26, 2024 AND DEC. 4, 2024	12/06/24	TLM	
			-		
				·	



	SCALE	DESIGN	T.L.M.	PROJEC
	0 1 3 5m	CHECKED	T.L.M.	-
	1:100 HORIZONTAL	DRAWN BY	P.M.	-
		CHECKED	T.L.M.	DRAWIN
•		APPROVED		
	VERTICAL		T.L.M.	

304-308 DONALD STREET LOTS 191 AND 192 REGISTERED PLAN 441 CITY OF OTTAWA

PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN

T.L. MAK ENGINEERING CONSULTANTS LTD. CONSULTING ENGINEERS

824-63 MAY 2024

#19153

RAWING No.

SWM-1