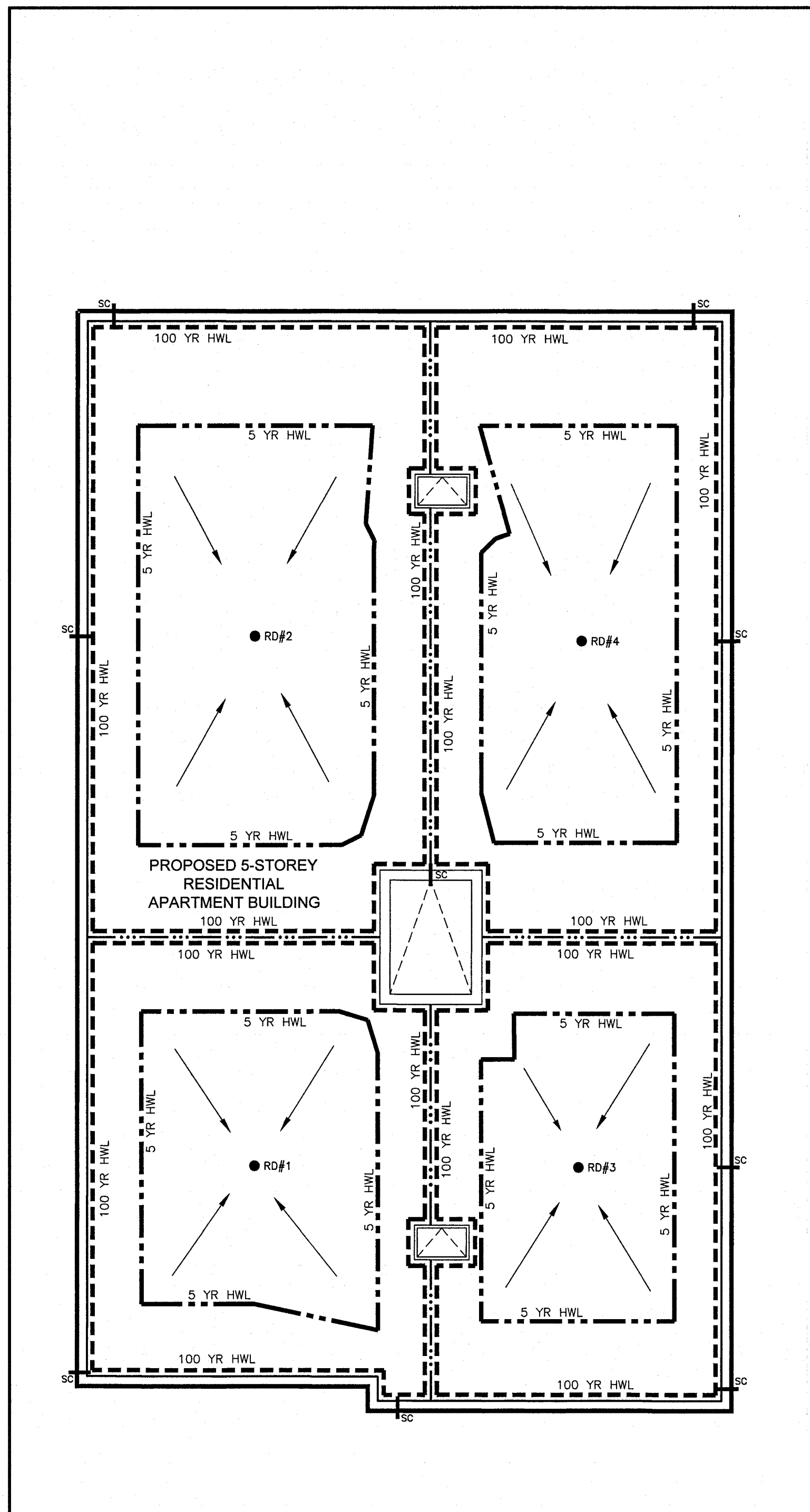
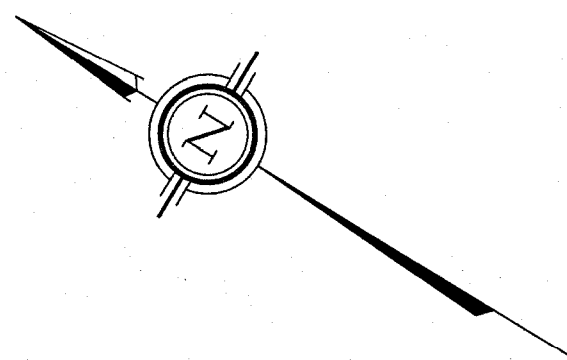




RUSSELL AVENUE

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 MAXIMUM 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 FOR SWM ATTENUATION

5-YEAR EVENT

FLOW PER ROOF DRAIN: 12.5 U.S. GAL/MIN. OR 0.79 L/s.

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT HEAD OF 100mm PER DRAIN AT THE (4) PROPOSED DRAINS = 3.16 L/s

100-YEAR EVENT

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 (4) PROPOSED DRAINS = 3.80 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 (m ³)		MAX. STORAGE AVAILABLE (m ³)
			5 YR	100 YR	5 YR	100 YR	5 YR	100 YR	
RD-1 (0.0098 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.79	0.95	0.10	0.15	1.13	2.84	4.55
RD-2 (0.0140 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.79	0.95	0.10	0.15	2.01	4.75	6.59
RD-3 (0.0087 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.79	0.95	0.10	0.15	0.93	2.36	4.15
RD-4 (0.0121 ha)	1	RD-100-A-ADJ (1/4 EXPOSED OPENING)	0.79	0.95	0.10	0.15	1.61	3.87	5.31
TOTAL ROOF (0.0446 ha)	4		3.16	3.80	—	—	5.68	13.82	20.60

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 100mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2, #3 AND #4

100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2, #3 AND #4

— 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 1.7% (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 AND #4 AT PERIMETER OF BUILDING.

— SEE STORM DRAINAGE REPORT No. R-825-96 DATED DECEMBER 2025 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 AND #4 AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

4. ROOF DRAIN #1, #2, #3 AND #4 INCLUSIVE SHALL DISCHARGE INTO THE PROPOSED 150mm ϕ STORM LATERAL AND STORMWATER WILL OUTLET INTO THE EXISTING CITY'S RUSSELL AVENUE 300mm ϕ COMBINED SEWER. SEE PROPOSED GRADING AND SERVICING PLAN (DWG No. 825-96, G-1) FOR DETAILS.

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 825-96, G-1.



LEGEND

- 100 YR HIGH WATER LEVEL
- 5 YR HIGH WATER LEVEL
- PROPOSED HIGH RIDGE LINE
- PROPOSED ROOF DRAIN LOCATION AND NUMBER
- PROPOSED ROOF SCUPPER LOCATION [FOR EMERGENCY OVERFLOW USE]
- PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW
- PROPOSED CONCRETE SPLASH PAD LOCATION FOR ROOF DRAIN WATER OUTLET AND DISCHARGE

WATTS

Adjustable Accutrol Weir

Adjustable Flow Control for Roof Drains

ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol. The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.
Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

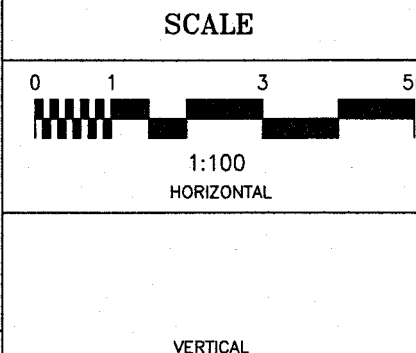
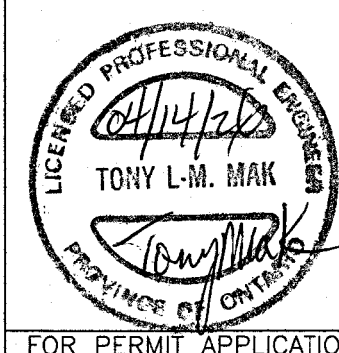
EXAMPLE:

For example, if the adjustable upper cone is set to cover 1/2 of the weir opening, flow rates above 2" of head will be restricted to 2-1/2 gpm per inch of head.
Therefore, at 3" of head, the flow rate through the Accutrol Weir that has 1/2 the slot exposed will be:
[5 gpm (per inch of head) x 2 inches of head] + 2-1/2 gpm (for the third inch of head) = 12-1/2 gpm.

TABLE 1. Adjustable Accutrol Flow Rate Settings

Weir Opening Exposed	1"	2"	3"	4"	5"	6"
Fully Exposed	5	10	15	20	25	30
3/4	5	10	13.75	17.5	21.25	25
1/2	5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13.75	15
Closed	5	5	5	5	5	5

1	REVISIONS AS PER ARCHITECT'S REVIEW COMMENTS AND REVISED SITE PLAN OF APRIL 10, 2025	04/14/26	TLM	
No.	REVISION	DATE	BY	



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

PROJECT	71 RUSSELL AVENUE LOT 14 EAST SIDE OF RUSSELL AVENUE REGISTERED PLAN 58319 CITY OF OTTAWA
DRAWING TITLE	PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN

PROJECT No.	825-96	DATE	DECEMBER 2025	DRAWING No.	SWM-1
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