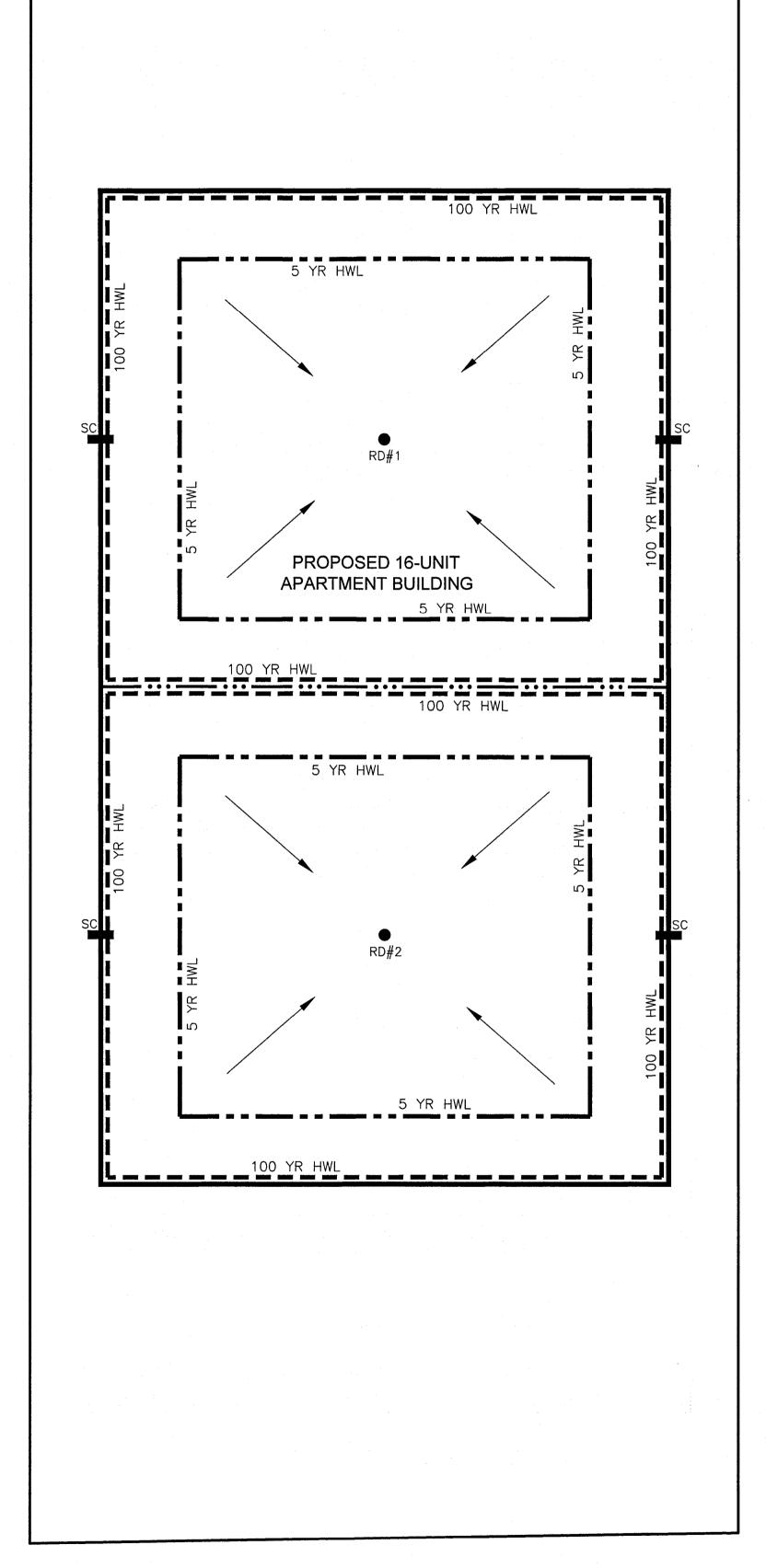


ATHLONE AVENUE



NOTES

1. STORMWATER MANAGEMENT NOTES

ROOF DRAIN DETAILS

MODEL TYPE: WATTS MODEL "ADJUSTABLE ACCUTROL WEIR" (MODEL No. RD-100A-ADJ), (WEIR OPENING EXPOSED IS : CLOSED) TO PERMIT A RELEASE FLOW RATE OF 5.0 US GAL/MIN. OR 0.316 L/s UNDER A HEAD OF 110mm AND AT MAXIMUM FLOW RATE OF 5.0 US GAL/MIN. OR 0.316 L/s UNDER A HEAD OF UP TO 150mm.

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

MAXIMUM FLOW PER ROOF DRAIN: 5.0 U.S. GAL/MIN. OR 0.316 L/s.

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN AT THE (2) PROPOSED DRAINS = 0.63 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
			2 YR	100 YR	2 YR	100 YR	2 YR	100 YR	AVAILABLE (m³)
RD-1 (0.013 ha)	1	RD-100-A-ADJ (CLOSED)	0.316	0.316	0.11	0.15	1.81	6.33	6.39
RD-2 (0.013 ha)	. 1	RD-100-A-ADJ (CLOSED)	0.316	0.316	0.11	0.15	1.81	6.33	6.40
TOTAL ROOF (0.026 ha)	2		0.63	0.63	-	-	3.62	12.66	12.79

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 110mm 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 (MAX) RELEASE RATE OF 5.0 U.S. GAL/MIN. OR 0.316 L/s. 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 1.9% (MIN.) SLOPE.

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

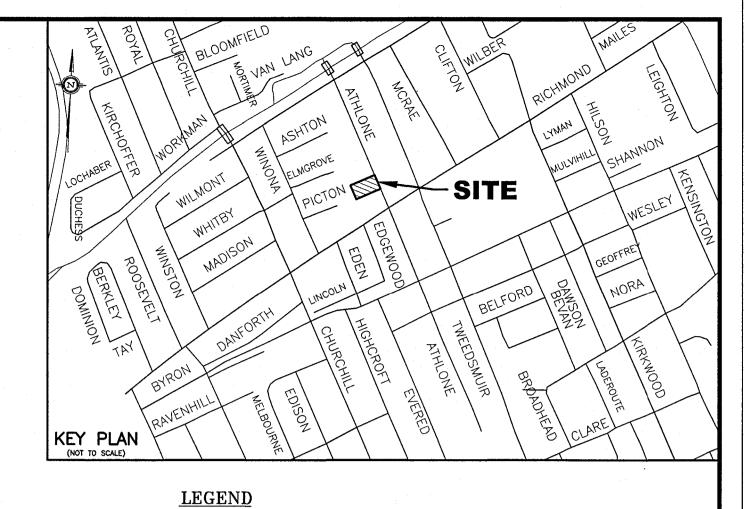
- SEE STORM DRAINAGE REPORT No. R-823-83 DATED MAY 2024 FOR DETAILS ALSO.

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

4. ROOF DRAIN #1 AND #2 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 150mmø PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 823-83, G-1).

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 823-83, G-1.



100 YR HIGH WATER LEVEL

PROPOSED HIGH RIDGE LINE

5 YR HIGH WATER LEVEL

● RD#1 PROPOSED ROOF DRAIN NUMBER AND LOCATION

sc PROPOSED ROOF SCUPPER LOCATION

PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW

Adjustable Accutrol Weir

Adjustable Flow Control for Roof Drains

ADJUSTABLE ACCUTROL (for Large Sump Roof Drains only)

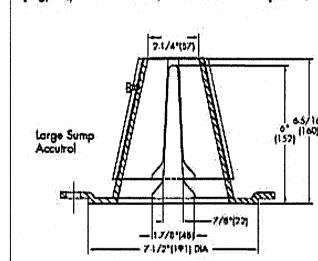
For more flexibility in controlling flow with heads deeper than 2", Watts Drainage offers the Adjustable Accutrol.

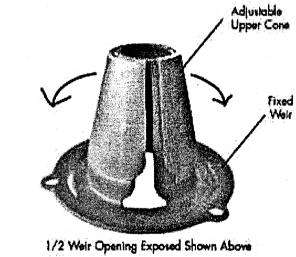
The Adjustable Accutrol Weir is designed with a single parabolic opening that can be covered to restrict flow above 2" of head to less than 5 gpm per inch, up to 6" of head. To adjust the flow rate for depths over 2" of head, set the slot in the adjustable upper cone according to the flow rate required. Refer to Table 1 below.

Note: Flow rates are directly proportional to the amount of weir opening that is exposed.

For example, if the adjustable upper cone is set to cover 1/2 of the well 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.

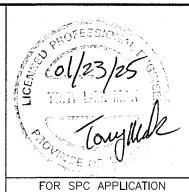




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eller i de die steller i de	100	21	37	4"	37	∴6 *
Exposed		Flow R	ote (gall	ous bet	mioute)	
Fully Espason	5	10	15	20	25	20
2/4	- 5	10	13.75	17.5	21,25	25
1/2	: 5	10	12.5	15	17.5	20
1/4	5	10	11.25	12.5	13,75	. 15
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REVISIONS AS PER CITY'S REVIEW COMMENTS OF DECEMBER 19, 2024 AND HOUSE DESIGNER'S REVISED SITE PLAN PROVIDED ON JANUARY 16, 2025 01/23/25



 SCALE		DESIGN	T.L.M.	PROJE
0 0.75 2.25 3.7	5m	CHECKED	T.L.M.	
1:75 HORIZONTAL		DRAWN BY	P.M.	
		CHECKED	T.L.M.	DRAWIN
				

T.L.M.

370 ATHLONE AVENUE LOT 75 REGISTERED PLAN 263 CITY OF OTTAWA

PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN



T.L. MAK ENGINEERING CONSULTANTS LTD CONSULTING ENGINEERS

MARCH 2024