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NOTES

1. STORMWATER MANAGEMENT NOTES

ROOF DRAIN DETAILS

MODEL TYPE: WATTS MODEL "ADJUSTABLE ACCUTROL WEIR" (MODEL No. RD-100A-ADJ), (WEIR OPENING EXPOSED IS: 1/2 OPENING AS SPECIFIED) TO PERMIT A RELEASE FLOW RATE OF 20.0 US GAL/MIN. OR 1.26 L/s UNDER A HEAD OF UP TO 156mm.

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

FLOW PER ROOF DRAIN: 20.0 U.S. GAL/MIN. OR 1.26 L/s.

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 156mm PER DRAIN AT THE (3) PROPOSED DRAINS = 3.78 L/s

DEPTH AND VOLUME:

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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 ¹)		MAX. STORAGE AVAILABLE (m³)
			5 YR	100 YR	5 YR	100 YR	5 YR	100 YR	AVAILABLE (III)
RD-1 (0.0428 ha)	1	RD-100-A-ADJ (1/2 EXPOSED OPENING)	1.10	1.26	0.12	0.156	8.82	19.635	19.64
RD-2 (0.0493 ha)	1	RD-100-A-ADJ (1/2 EXPOSED OPENING)	1.10	1.26	0.12	0.152	10.66	23.60	24.78
RD-3 (0.0454 ha)	1	RD-100-A-ADJ (1/2 EXPOSED OPENING)	1.10	1.26	0.12	0.152	9.57	21.22	22.56
TOTAL ROOF (0.1375 ha)	. 3		3.30	3.78		-	29.05	64.46	66.98

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 120mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, #2 AND #3

100 YEAR ELEVATION: 156mm ABOVE THE ROOF DRAIN FOR ROOF AREA #1, AND 152mm ABOVE THE ROOF DRAIN FOR ROOF AREA #2 AND #3

- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 20.0 U.S. GAL/MIN. OR 1.26 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

- ROOF PITCH IS ASSUMED TO HAVE 1.0% (MIN.) SLOPE.

PROPER RELEASE RATE FOR STORMWATER MANAGEMENT COMPLIANCE.

- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1, #2 AND #3 AT PERIMETER OF BUILDING.

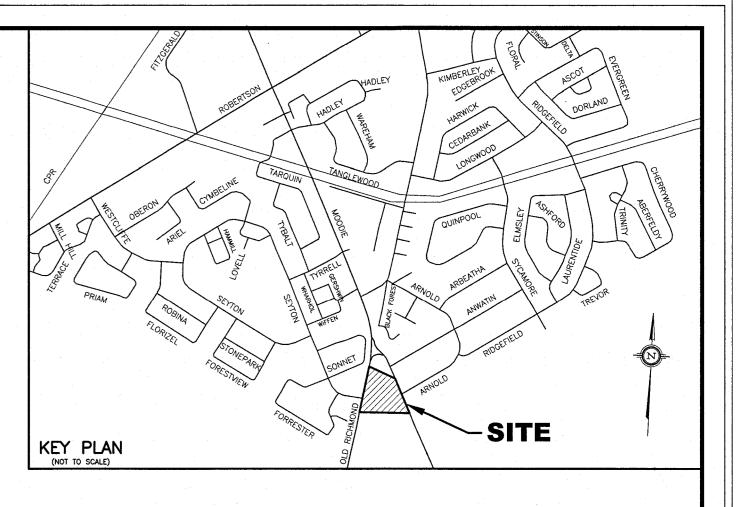
- SEE STORM DRAINAGE REPORT No. R-819-106 DATED OCTOBER 2021 FOR DETAILS ALSO.

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 150mmø PVC STORMWATER PIPE AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG No. 819-106, G-1).

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 819-106, G-1.



LEGEND

100 YR HIGH WATER LEVEL 5 YR HIGH WATER LEVEL PROPOSED HIGH RIDGE LINE

PROPOSED ROOF DRAIN

PROPOSED ROOF SCUPPER LOCATION

PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW

--------5 YR HWL 4000 OLD RICHMOND ROAD PROPOSED LOW-RISE APARTMENT BUILDING 100 YR HWL 100 YR HWL 100 YR HWL

> ISSUED FOR SITE PLAN APPLICATION 12/14/21

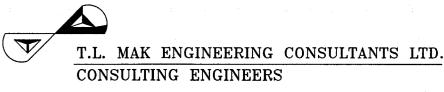


	SCALE	<u> </u>	DESIGN	T.L.M.	PROJE
	0 1.5 4.5	7.5m	CHECKED	T.L.M.	
anders and the contraction	1:150 HORIZONTAL		DRAWN BY	P.M.	
-			CHECKED	T.L.M.	DRAWIN
			APPROVED	***************************************	7

T.L.M.

4000 OLD RICHMOND ROAD PART OF LOTS 32 AND 33 CONCESSION 5 (RIDEAU FRONT) GEOGRAPHIC TOWNSHIP OF NEPEAN CITY OF OTTAWA

PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN



DRAWING No. 819-106 JULY 2021 SWM-1