

NOTES

1. STORMWATER MANAGEMENT NOTES

ROOF DRAIN DETAILS

MODEL TYPE: WATTS MODEL RD-100 WITH ACCUTROL CONTROL WEIR, ONE SLOT OR EQUAL
NUMBER OF CONTROL DEVICES: 1 CONTROLLED ROOF DRAIN PER DESIGNATED ROOF AREA FOR SWM ATTENUATION

FLOW PER ROOF DRAIN: 10.0 U.S. GAL/MIN. OR 0.63 L/S

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 150mm PER DRAIN AT THE (4) PROPOSED DRAINS: 2.52 L/S

DEPTH AND VOLUME:

ROOF AREA No.	DEPTH (mm)		VOLUME (cu.m.)	
	5 YR	100 YR	5 YR	100 YR
1	100	150	0.66	2.66
2	100	150	0.58	2.01
3	100	150	0.73	2.60
4	100	150	0.76	2.65

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 100mm ABOVE THE ROOF DRAIN

100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN

- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 10 U.S. GAL/MIN. OR 0.63 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 2.5% (MIN.) SLOPE.
- ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1 TO #4 INCLUSIVE.
- SEE STORM DRAINAGE REPORT No. R-817-61 DATED NOVEMBER 2017 FOR DETAILS ALSO.

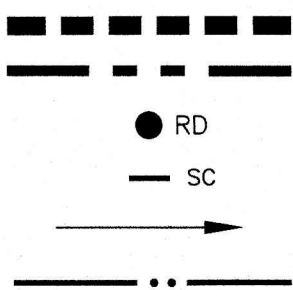
2. PROPOSED ROOF DRAINS AND SCUPPER LOCATIONS SHOWN ON THIS PLAN SHALL BE REVIEWED BY THE OWNER AND OWNER'S HOUSE DESIGNER FOR APPROVAL.

3. THE OWNER'S HOUSE 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 TO #4 INCLUSIVE AND ANY OF THE SUPPORTING STRUCTURES THAT MAY BE AFFECTED BY THE STORED WATER.

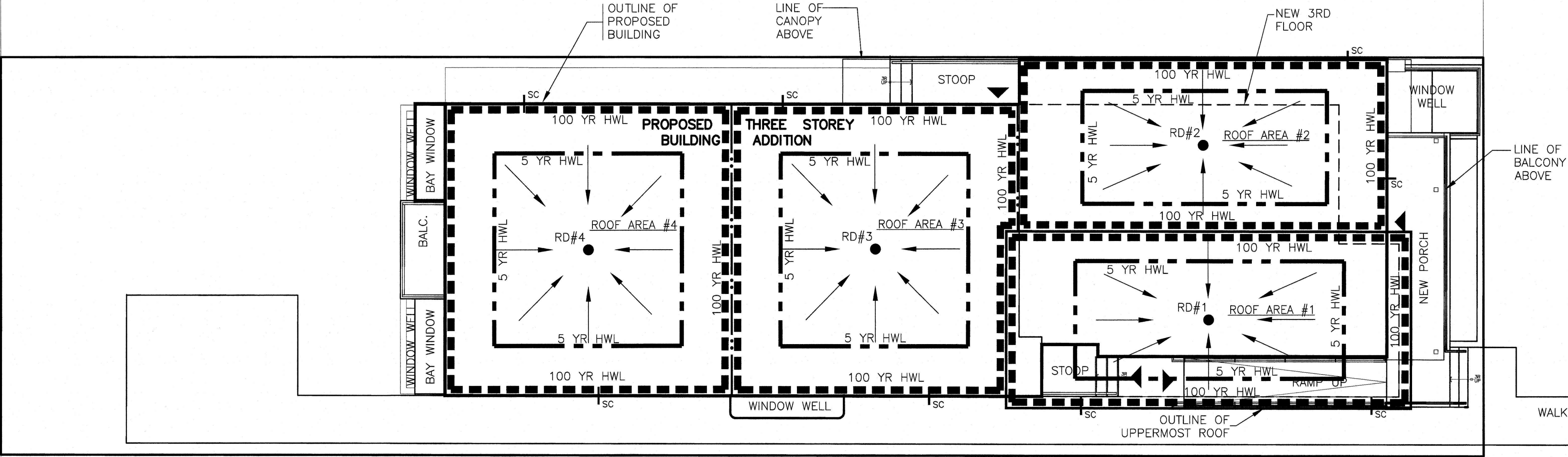
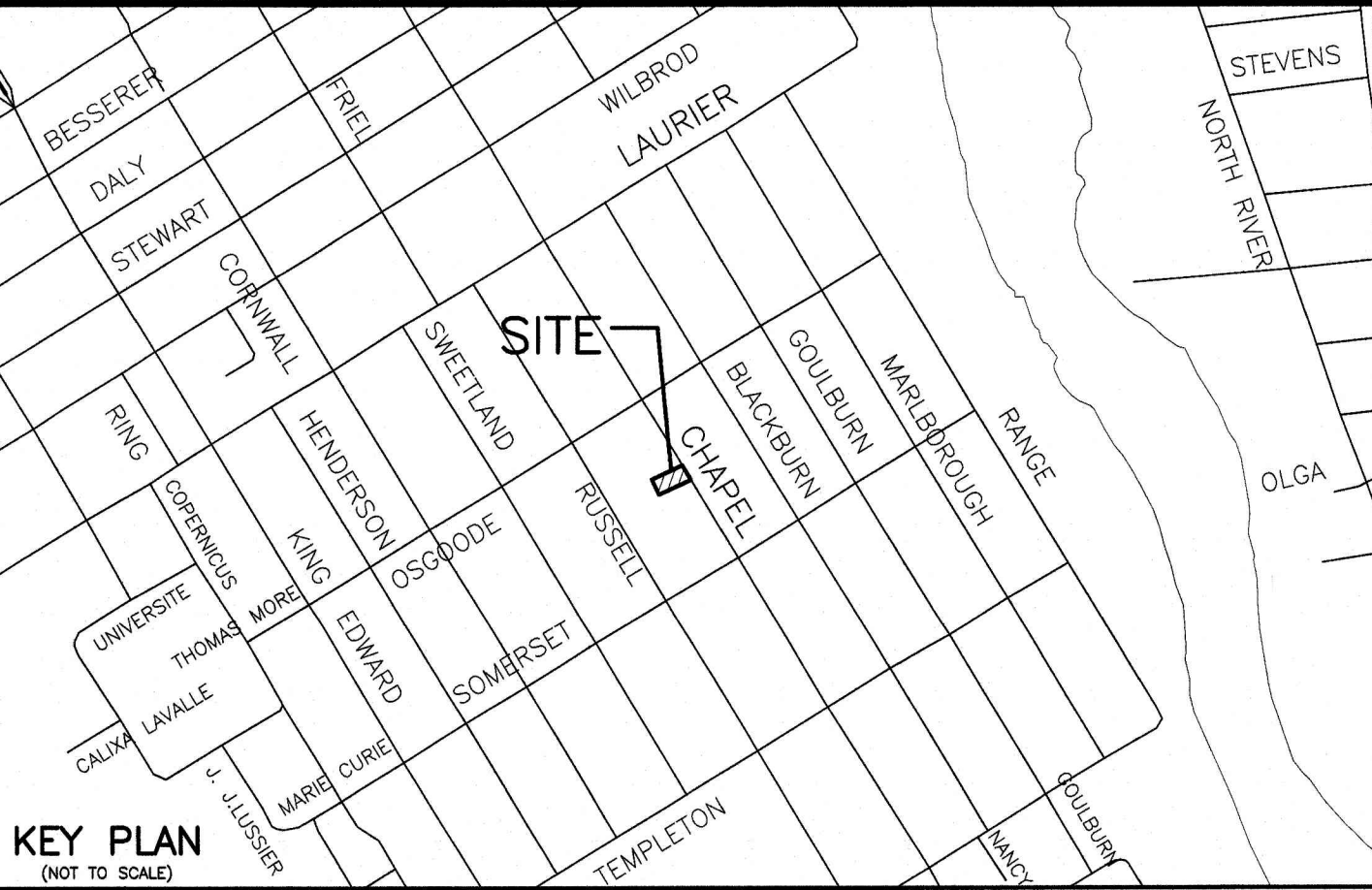
4. ROOF DRAIN #1 TO #4 INCLUSIVE SHALL OUTLET INTO THE DESIGNATED 125mm ϕ PVC STORMWATER PIPE AS SHOWN ON THIS DRAWING. THE BUILDING WEEPING TILE WATER WILL OUTLET TO A SEPARATE 150mm ϕ PVC STORM LATERAL AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG. No. 817-61, G-1).

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 817-61, G-1.

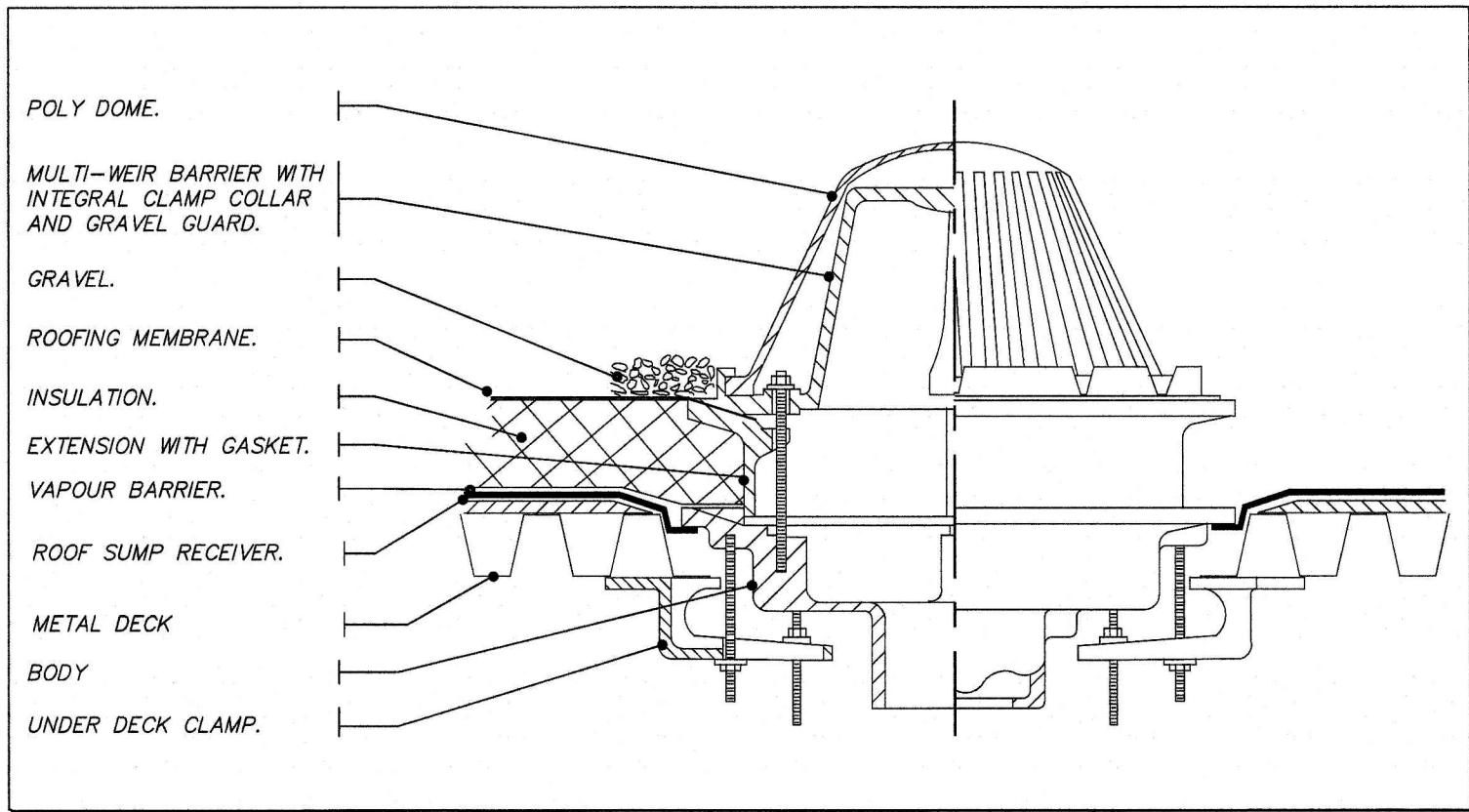
LEGEND



100 YR HIGH WATER LEVEL (150mm ABOVE THE ROOF DRAIN)
5 YR HIGH WATER LEVEL (100mm ABOVE THE ROOF DRAIN)
RD
SC
PROPOSED ROOF DRAIN LOCATION
PROPOSED ROOF SCUPPER LOCATION
PROPOSED ROOF SURFACE DRAINAGE FLOW DIRECTION
PROPOSED HIGH RIDGE LINE

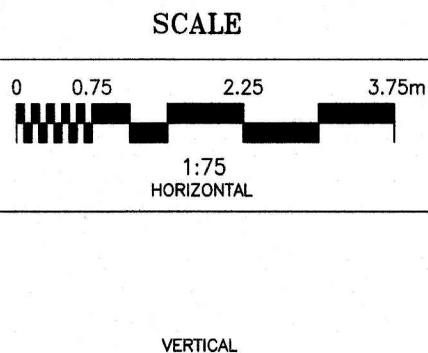
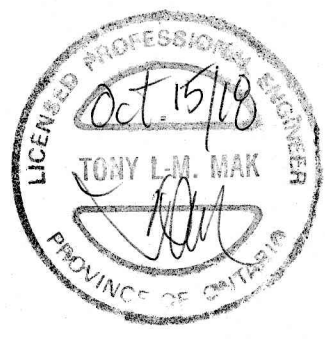


TYPICAL:
3" ϕ ROOF DRAIN ABOVE, "WATTS" MODEL: RD-100 WITH ACCUTROL CONTROL WEIR, ONE SLOT. DRAIN TO BE c/w WEIR, BARRIER, INTERNAL CLAMP COLLAR AND GRAVEL GUARD. BOTTOM OF WEIR TO BE FLUSH WITH ROOF. CAST IRON BODY, ALUMINUM WEIR, STAINLESS STEEL GRID AND POLDOME. COORDINATE INSTALLATION ON SITE.



TYPICAL ROOF DRAIN DETAIL
N.T.S.

NO.	REVISION	DATE	BY
1	REVISIONS AS PER CITY'S REVIEW COMMENTS OF MAY 31, 2018	10/12/18	T.L.M.



DESIGN	T.L.M.
CHECKED	T.L.M.
DRAWN BY	G.U.
CHECKED	T.L.M.
APPROVED	T.L.M.

PROJECT	388 CHAPEL STREET NORTH HALF OF LOT 17 (WEST CHAPEL STREET) REGISTERED PLAN 58319 CITY OF OTTAWA
DRAWING TITLE	PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN

T.L. MAK ENGINEERING CONSULTANTS LTD. CONSULTING ENGINEERS		
PROJECT No. 817-61	DATE NOVEMBER 2017	DRAWING No. SWM-1