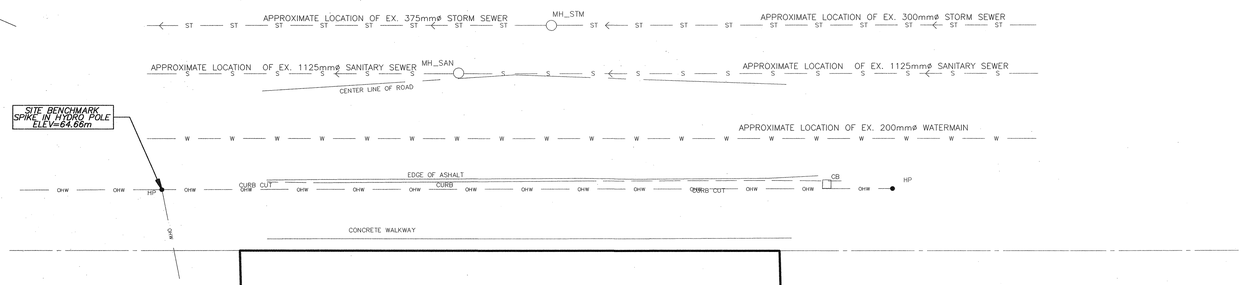
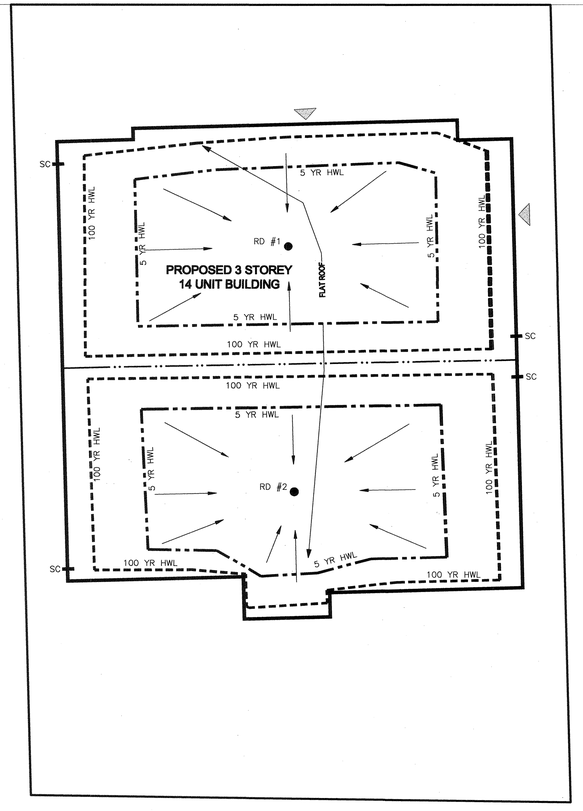
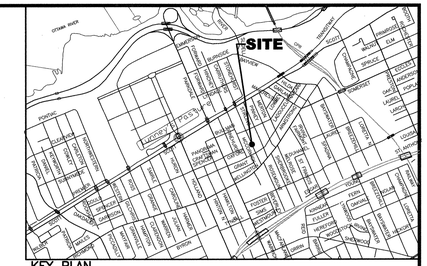
(LOCALLY KNOWN AS)

CARRUTHERS AVENUE

(FORMERLY CAVE STREET PER REGISTERED PLAN 83)







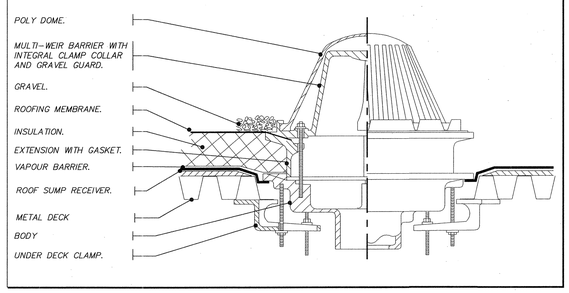
LEGEND

- 100 YR HIGH WATER LEVEL (135mm ABOVE THE ROOF DRAIN)
- 5 YR HIGH WATER LEVEL (100mm ABOVE THE ROOF DRAIN)
- RD — PROPOSED ROOF DRAIN LOCATION
- SC — PROPOSED ROOF SCUPPER LOCATION
- PROPOSED ROOF SURFACE DRAINAGE FLOW DIRECTION
- PROPOSED HIGH RIDGE LINE

DOUGLAS JAMES, MCIP, RPP
MANAGER, DEVELOPMENT REVIEW - CENTRAL
PLANNING, INFRASTRUCTURE & ECONOMIC
DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

APPROVED
By Jamesdo at 12:49 pm, Oct 01, 2019

TYPICAL:
3"ø 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.

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: 20.0 U.S. GAL/MIN. OR 1.26 L/S

TOTAL FLOW FROM FLAT ROOFTOP OF BUILDING AT MAXIMUM HEAD OF 135mm PER DRAIN AT THE (2) PROPOSED DRAINS: 2.52 L/S

DEPTH AND VOLUME:

ROOF AREA No.	DEPTH (mm)		VOLUME (m^3)	
	5 YR	100 YR	5 YR	100 YR
1	100	135	2.01	4.95
2	100	135	1.97	4.82

SCUPPER LOCATION: AS SHOWN ON THIS DRAWING

5 YEAR ELEVATION: 100mm ABOVE THE ROOF DRAIN

100 YEAR ELEVATION: 135mm ABOVE THE ROOF DRAIN

- EACH ROOF DRAIN SHALL BE SIZED FOR A RELEASE RATE OF 20 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 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 AND #2.
- SEE STORM DRAINAGE REPORT No. R-816-86 DATED SEPTEMBER 2018 FOR DETAILS ALSO.

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

3. THE OWNER'S ARCHITECT 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 SHALL OUTLET INTO THE DESIGNATED 125mmø PVC STORMWATER PIPE AS SHOWN ON DWG. No. 816-86, G-1. THE BUILDING WEEPING TILE WATER WILL OUTLET BY A SEPARATE 150mmø PVC STORM PIPE WHICH OUTLETS TO THE EX. 300mmø DIAMETER STORM SEWER.

5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 816-86, G-1.

NO.	REVISION	DATE	BY
3	CITY OF OTTAWA FILE NUMBER AND PLAN NUMBER ADDED TO THE DRAWING	08/22/19	TLM
2	REVISIONS AS REVISED SITE PLAN RECEIVED ON APRIL 18/19 AND CITY REVIEW COMMENTS.	05/07/19	TLM
1	REVISIONS AS PER ARCHITECT'S NEW SITE PLAN OF APRIL 17, 2019	04/29/19	TLM

LICENSED PROFESSIONAL ENGINEER
TONY L-M. MAK
PROVINCE OF ONTARIO
22/23/19

SCALE
0 1 3 5m
1:100 HORIZONTAL
VERTICAL

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

PROJECT
258 CARRUTHERS AVENUE
PART OF LOTS 7 AND 8
REGISTERED PLAN 83
CITY OF OTTAWA

DRAWING TITLE
PROPOSED ROOFTOP STORMWATER MANAGEMENT PLAN

T.L. MAK ENGINEERING CONSULTANTS LTD.
CONSULTING ENGINEERS

PROJECT No.	DATE	DRAWING No.
816-86	SEPTEMBER 2018	SWM-1

D07-12-18-0163
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