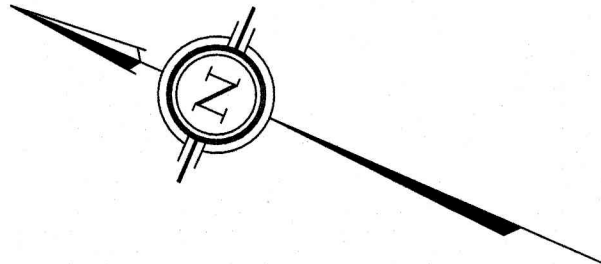
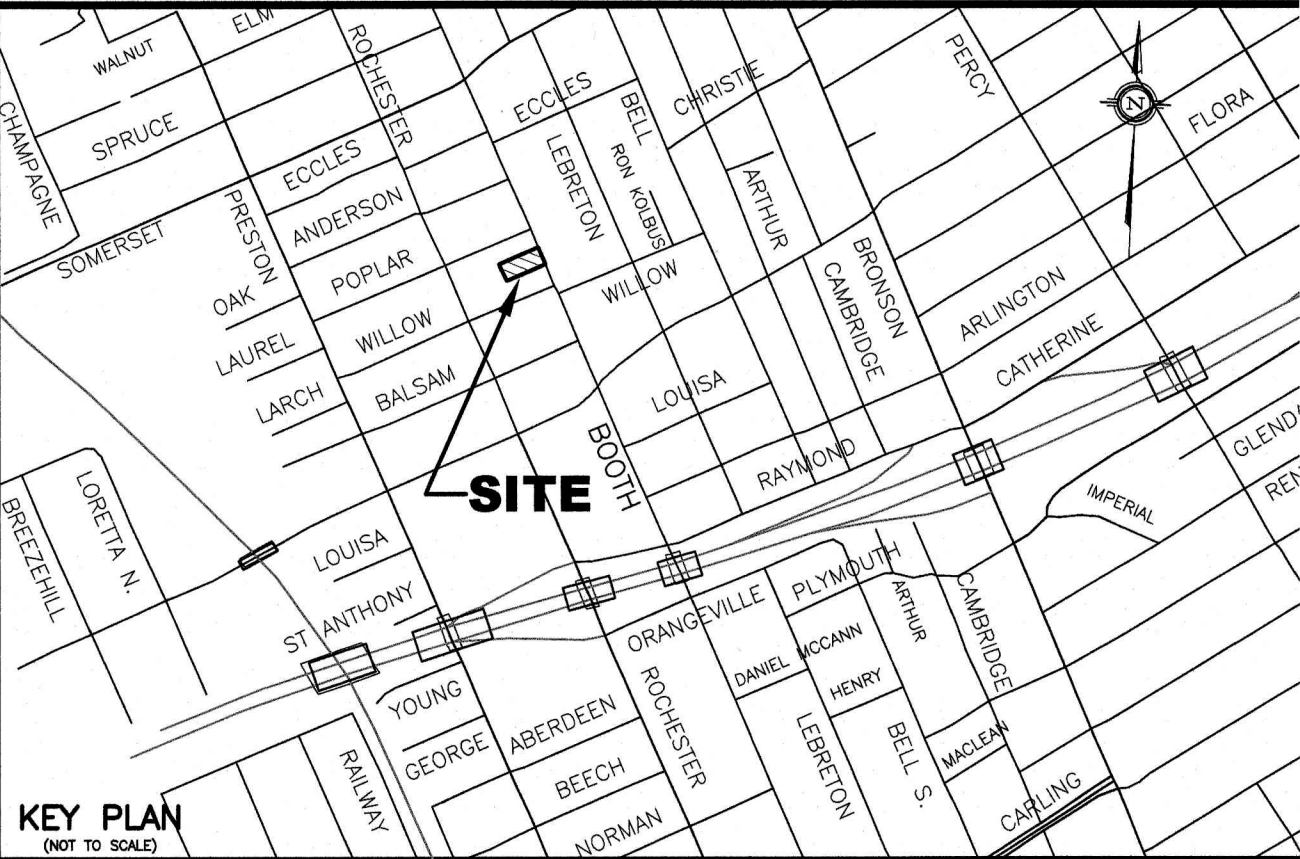


JOB BENCHMARK
TOP OF SPINDLE
Elev=67.99



(Formerly Division Street)(BY-LAW INST. N13543)

Approximate Crown of Road

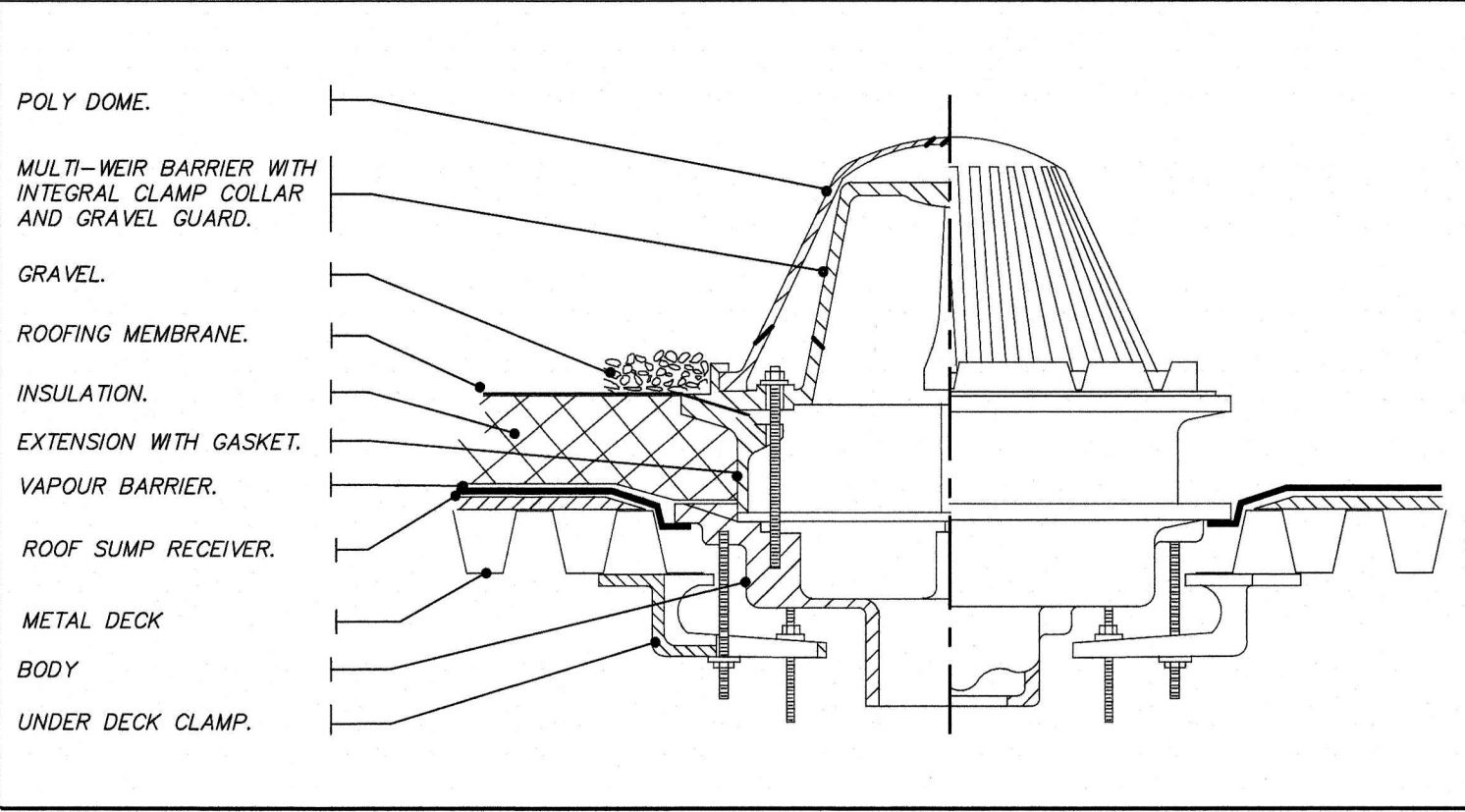


- LEGEND**
- PROPOSED GENERAL DIRECTION OF LOT GRADING AND SURFACE FLOW
 - 100 YR HIGH WATER LEVEL
 - 5 YR HIGH WATER LEVEL
 - PROPOSED HIGH RIDGE LINE
 - PROPOSED ROOF DRAIN
 - PROPOSED ROOF SCUPPER LOCATION

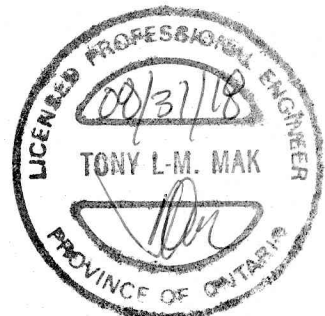
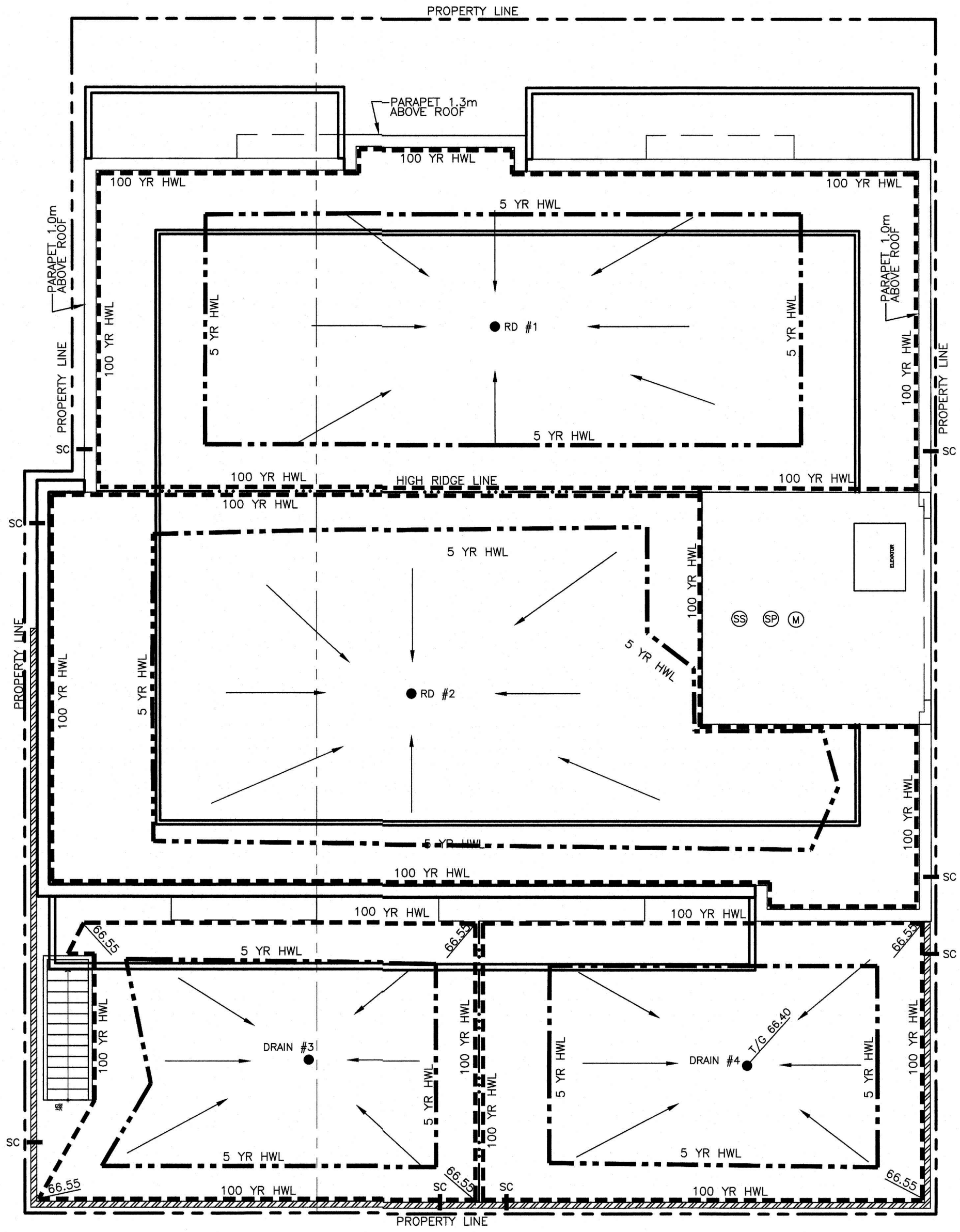
NOTES

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 (m ³) | |
|---------------|------------|--------|--------------------------|--------|
| | 5 YR | 100 YR | 5 YR | 100 YR |
| 1 | 110 | 150 | 3.51 | 9.19 |
| 2 | 120 | 160 | 5.05 | 12.05 |
| 3 | 110 | 150 | 1.51 | 3.92 |
| 4 | 110 | 150 | 1.61 | 4.17 |
- SCUPPER LOCATION: AS SHOWN ON THIS DRAWING
- 5 YEAR ELEVATION: 110mm ABOVE THE ROOF DRAIN FOR ROOF AREA#1, #3 AND #4 AND 120mm ABOVE THE ROOF DRAIN FOR AREA #2.
- 100 YEAR ELEVATION: 150mm ABOVE THE ROOF DRAIN FOR ROOF AREA#1, #3 AND #4 AND 160mm ABOVE THE ROOF DRAIN FOR AREA #2.
- 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 1.0% (MIN.) SLOPE.
 - ROOF SCUPPERS ARE RECOMMENDED TO BE INSTALLED 0mm ABOVE EDGE OF ROOFTOP ELEVATION FOR EMERGENCY OVERFLOW PURPOSES AT ROOF AREA #1, #3 AND #4 AND 10mm ABOVE EDGE OF ROOFTOP AT PERIMETER OF BUILDING FOR AREA #2.
 - 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 \varnothing PVC STORMWATER PIPE AS SHOWN ON THIS DRAWING. THE BUILDING WEIRING TILE WATER WYE INTO THE PROPOSED 150mm \varnothing PVC STORM LATERAL FROM THIS BUILDING AS SHOWN ON THE PROPOSED GRADING AND SERVICING PLAN (DWG. No. 818-43, G-1).
5. FOR GRADING AND SERVICING DETAILS OF THIS SITE, REFER TO DWG. No. 818-43, G-1.

TYPICAL:
3" 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 POLYDOME. COORDINATE INSTALLATION ON SITE.



TYPICAL ROOF DRAIN DETAIL
N.T.S.



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
360 BOOTH STREET
PART OF LOTS 203 AND 204
REGISTERED PLAN 14
CITY OF OTTAWA

DRAWING TITLE
**PROPOSED ROOFTOP
STORMWATER MANAGEMENT PLAN**

**T.L. MAK ENGINEERING CONSULTANTS
CONSULTING ENGINEERS**

PROJECT No. 818-43
DATE JULY 2018
DRAWING No. SWM-1