

KEY PLAN

LEGEND

- PROPOSED HYDRANT
- PROPOSED VALVE AND VALVE BOX
- PROPOSED 600mm x 600mm CATCH BASIN C/W 150mm Ø PERFORATED SUBDRAIN
- PROPOSED 1200mmØ CATCH BASIN MANHOLE C/W 150mm Ø PERFORATED SUBDRAIN
- PROPOSED STORM MANHOLE (1200mmØ UNLESS OTHERWISE NOTED)
- PROPOSED SANITARY MANHOLE (1200mmØ UNLESS OTHERWISE NOTED)
- PROPOSED SITE LIGHTING
- PROPERTY LINE
- 100 YEAR PONDING AREA
- 100 YEAR PONDING LEVEL
- 5 YEAR PONDING LEVEL
- PROPOSED BUILDING ENTRANCE
- PROPOSED GRADE
- EXISTING ELEVATION
- PROPOSED SLOPE AND DRAINAGE DIRECTION
- T/G=88.45 PROPOSED TOP OF GRATE ELEVATION
- PROPOSED RETAINING WALL
- PROPOSED BARRIER CURB
- EXISTING BUILDING ENTRANCE
- EXISTING SITE LIGHTING
- EXISTING MANHOLE
- EXISTING CATCHBASIN
- EXISTING TOP OF GRATE ELEVATION
- EXISTING HYDRANT
- EXISTING VALVE AND VALVE BOX
- EXISTING LIGHT POLE TO BE RELOCATED
- EMERGENCY OVERLAND FLOW ROUTE
- STORM DRAINAGE AREA
- RUNOFF COEFFICIENT
- STORM DRAINAGE AREA NUMBER
- STORM DRAINAGE AREA

5 AND 100 YEAR SURFACE STORAGE VOLUMES

DRAINAGE AREA ID	5 YEAR			100 YEAR		
	AREA (sq.m)	DEPTH (m)	VOLUME (cub.m)	AREA (sq.m)	DEPTH (m)	VOLUME (cub.m)
A501*	9430	0.02	161.3	9430	0.041	362.1
A502	168	0.15	8	447	0.30	44.7
A503	123	0.15	6.1	480	0.30	48
A504	159	0.15	8	485	0.30	48.5
A505	186	0.15	9.3	449	0.30	44.9
A506	156	0.15	7.6	445	0.30	45.5
A507	284	0.15	14.7	1021	0.30	102
A508	388	0.15	19.3	860	0.2	59.3
A509	466	0.15	23.3	466	0.15	23.3
A601*	5530	0.02	94.5	5530	0.041	229.8
A602	48	0.02	0.8	155	0.20	10.3
A603	196	0.10	6.5	518	0.25	43.2
A604	625	0.15	26.3	1188	0.30	116
A605	670	0.15	33.5	1290	0.30	128
A606	504	0.15	25.2	917	0.30	91.7

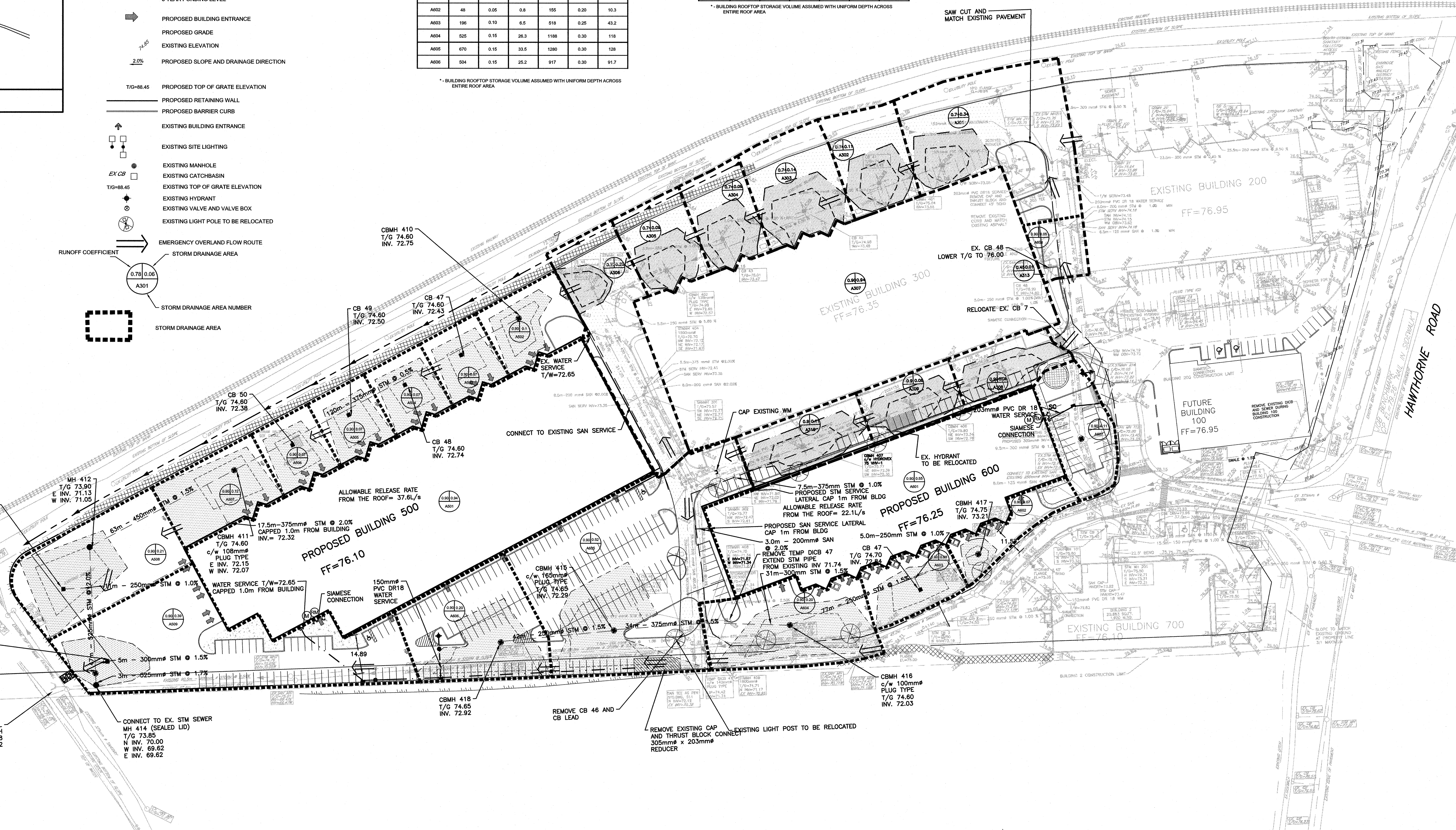
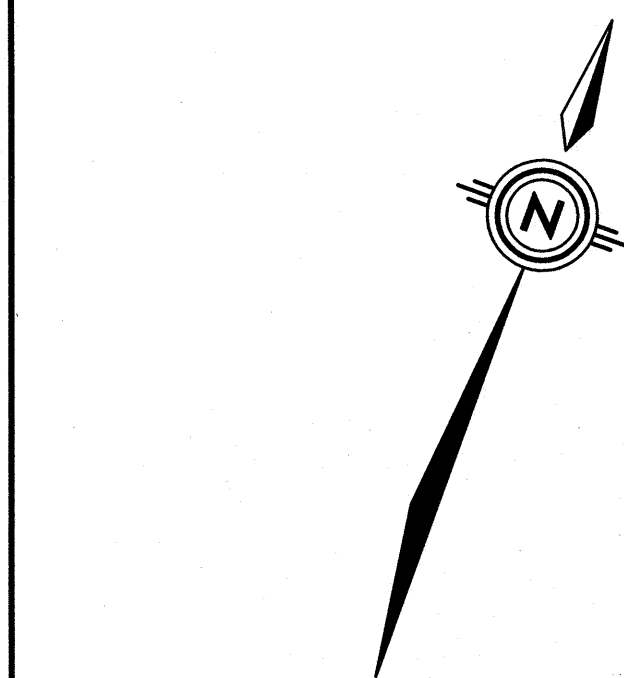
\* - BUILDING ROOFTOP STORAGE VOLUME ASSUMED WITH UNIFORM DEPTH ACROSS ENTIRE ROOF AREA

5 AND 100 YEAR SURFACE STORAGE VOLUMES

DRAINAGE AREA ID	5 YEAR			100 YEAR		
	AREA (sq.m)	DEPTH (m)	VOLUME (cub.m)	AREA (sq.m)	DEPTH (m)	VOLUME (cub.m)
A301	180	0.15	9.0	492	0.28	42.6
A302	178	0.15	8.9	475	0.26	41.2
A303	327	0.15	16.4	626	0.26	54.3
A304	189	0.15	9.5	451	0.26	38.1
A305	161	0.15	8.1	424	0.26	36.8
A306	142	0.15	7.1	254	0.20	17.0
A307*	9400	0.02	188	9400	0.041	388
A308	206	0.15	10.3	492	0.25	41.0
A309	191	0.15	9.6	470	0.25	38.7
A310	245	0.15	12.3	600	0.25	50.0

\* - BUILDING ROOFTOP STORAGE VOLUME ASSUMED WITH UNIFORM DEPTH ACROSS ENTIRE ROOF AREA

Location	ORIFICE SUMMARY				
	Controlled Release	Outlet Pipe Dia.	Orifice Dia.	Hydroxv Model	Head on Hydroxv
CBMH 407	10.0	381	N/A	75-VH-V-1	3.60
CBMH 416	35.0	305	100	N/A	N/A
BUILDING 500	22.1	381	N/A	N/A	N/A
CBMH 415	60.0	381	165	N/A	N/A
CBMH 417	40.0	457	108	N/A	N/A
CB 413	25.0	254	210	N/A	N/A
CB 418	75.0	305	146	N/A	N/A
BUILDING 500	37.6	381	N/A	N/A	N/A



NOTES  
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

**PRELIMINARY**  
NOT FOR CONSTRUCTION

NO.	REVISION DESCRIPTION	DATE	BY	APPD
2	REVISED ISSUE FOR SITE PLAN APPROVAL BUILDING 500 & 600	11/12/15	ML	AA
1	ISSUED FOR SITE PLAN APPROVAL BUILDING 500 & 600	09/11/15	ML	AA

SCALE  
1:750

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3020 HAWTHORNE ROAD  
BUILDING 500, 600  
CITY OF OTTAWA

STORMWATER MANAGEMENT PLAN

PROJ. NO.	224388
DESIGN	exp
CHECKED	AA
DATE	OCT 2015
DRAWING NO.	SWM1