BUILDING 'A' ROOF DRAIN TABLE: AREA R-1 (ROOF DRAINS A1 to A25)

AREA ID *	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-1	RD 1 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	13 cm
R-1	RD 2 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 3 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 4 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 5 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 6 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 7 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-1	RD 8 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 9 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 10 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 11 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 12 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 13 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 14 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 15 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 16 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 17 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-1	RD 18 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 19 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	15 cm
R-1	RD 20 (RD-100-A-ADJ)	FULLY EXPOSED	1.34L/s	11 cm	1.89 L/s	14 cm
R-1	RD 21 (RD-100-A-ADJ)	3/4 EXPOSED	1.34L/s	11 cm	1.58 L/s	15 cm
R-1	RD 22 (RD-100-A-ADJ)	3/4 EXPOSED	1.34L/s	11 cm	1.58 L/s	15 cm
R-1	RD 23 (RD-100-A-ADJ)	3/4 EXPOSED	1.34L/s	11 cm	1.58 L/s	15 cm
R-1	RD 24 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	15 cm
R-1	RD 25 (RD-100-A-ADJ)	FULLY EXPOSED	1.34 L/s	11 cm	1.89 L/s	14 cm

BUILDING 'B' ROOF DRAIN TABLE: AREA R-2 (ROOF DRAINS B1 to B25)

AREA ID *	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	APPROX. 5-YR PONDING DEPTH	1:100 YEAR RELEASE RATE	APPROX. 100-YR PONDING DEPTH
R-2	RD 1 (RD-100-A-ADJ)	FULLY EXPOSED	1.34 L/s	11 cm	1.89 L/s	14 cm
R-2	RD 2 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	15 cm
R-2	RD 3 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	15 cm
R-2	RD 4 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	15 cm
R-2	RD 5 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	15 cm
R-2	RD 6 (RD-100-A-ADJ)	FULLY EXPOSED	1.34 L/s	11 cm	1.89 L/s	14 cm
R-2	RD 7 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 8 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 9 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 10 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 11 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 12 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 13 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 14 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 15 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 16 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	14 cm
R-2	RD 17 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 18 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	11 cm	0.95 L/s	15 cm
R-2	RD 19 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-2	RD 20 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	14 cm
R-2	RD 21 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	14 cm
R-2	RD 22 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	14 cm
R-2	RD 23 (RD-100-A-ADJ)	3/4 EXPOSED	1.34 L/s	11 cm	1.58 L/s	14 cm
R-2	RD 24 (RD-100-A-ADJ)	3/4 EXPOSED	1.26 L/s	11 cm	1.34 L/s	14 cm
R-2	RD 25 (RD-100-A-ADJ)	FULLY EXPOSED	1.34 L/s	11 cm	1.58 L/s	13 cm

* REFER TO THE 'DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2023-069) PREPARED BY NOVATECH FOR DRAINAGE AREA IDENTIFIERS AND STORMWATER MANAGEMENT DETAILS.

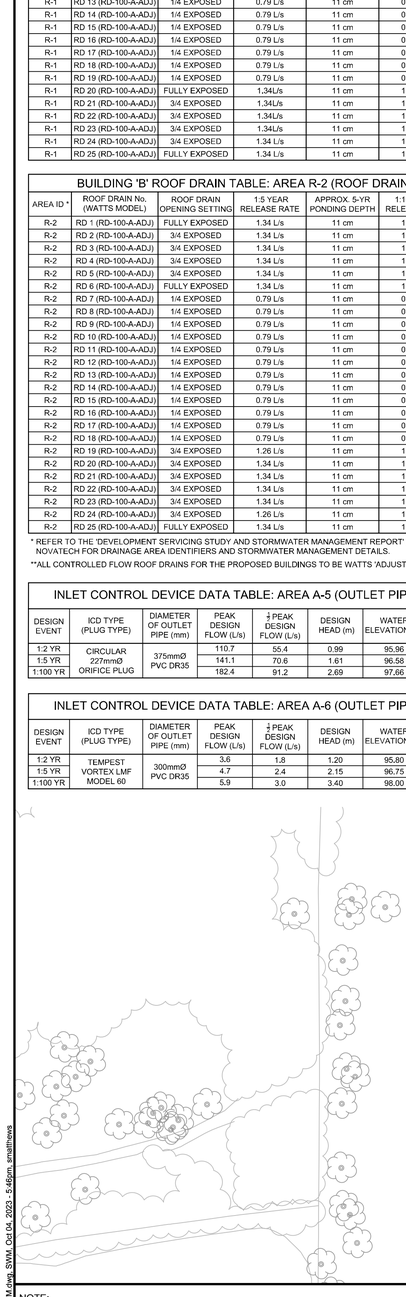
**ALL CONTROLLED FLOW ROOF DRAINS FOR THE PROPOSED BUILDINGS TO BE WATTS 'ADJUSTABLE ACCUTROL' ROOF DRAINS.

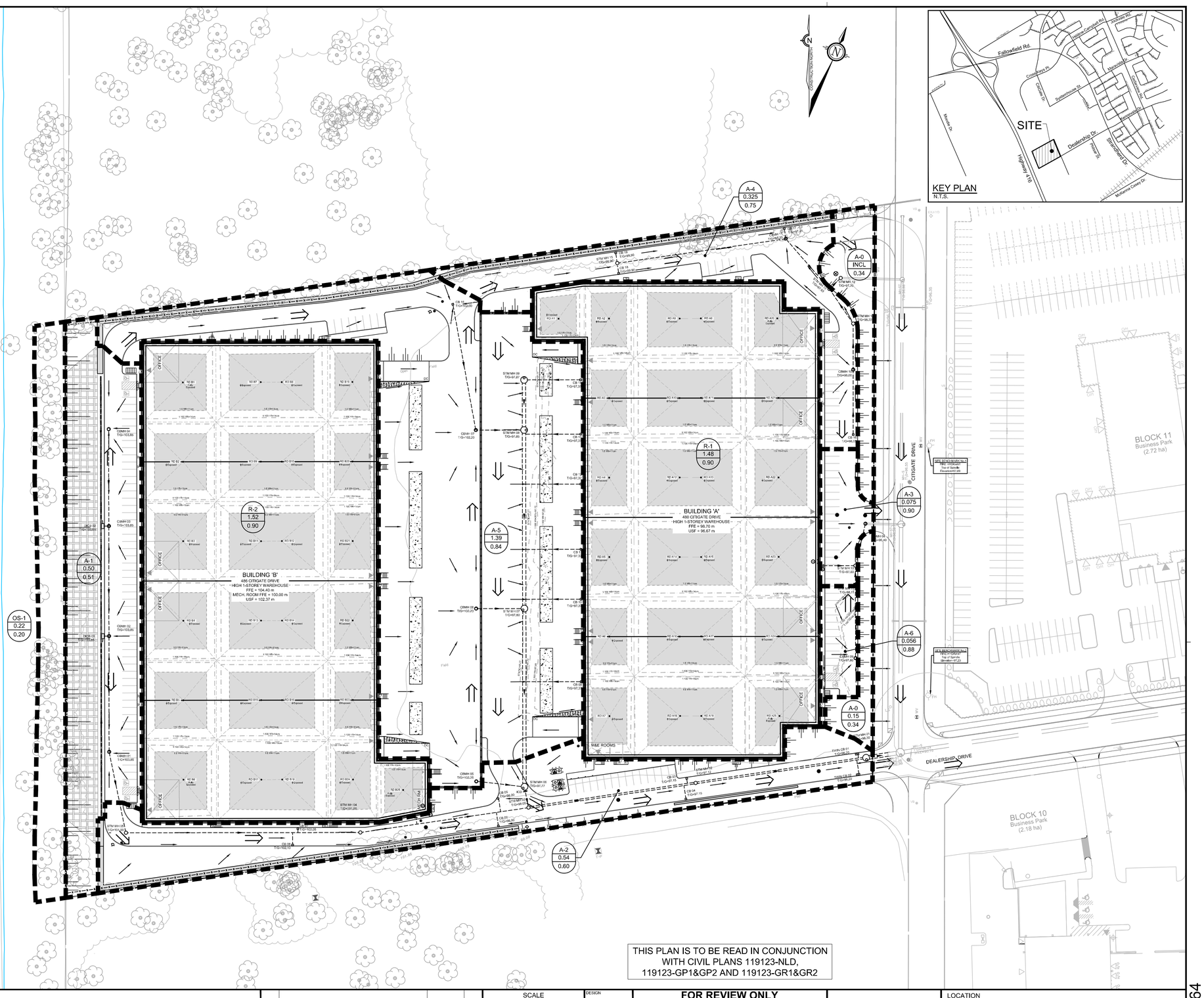
INLET CONTROL DEVICE DATA TABLE: AREA A-5 (OUTLET PIPE of STM MH 06)

DESIGN EVENT	ICD TYPE (PLUG TYPE)	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	½ PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m^3)	AVAILABLE STORAGE
1:2 YR	CIRCULAR 227mmØ ORIFICE PLUG	375mmØ PVC DR35	110.7	55.4	0.99	95.96	137	> 675 m^3
1:5 YR			141.1	70.6	1.61	96.58	191	
1:100 YR			182.4	91.2	2.69	97.66	435	

INLET CONTROL DEVICE DATA TABLE: AREA A-6 (OUTLET PIPE of STM MH 11)

DESIGN EVENT	ICD TYPE (PLUG TYPE)	DIAMETER OF OUTLET PIPE (mm)	PEAK DESIGN FLOW (L/s)	½ PEAK DESIGN FLOW (L/s)	DESIGN HEAD (m)	WATER ELEVATION (m)	VOLUME (m^3)	AVAILABLE STORAGE
1:2 YR	TEMPEST VORTEX LMF MODEL 60	300mmØ PVC DR35	3.6	1.8	1.20	95.80	7	39 m^3
1:5 YR			4.7	2.4	2.15	96.75	9	
1:100 YR			5.9	3.0	3.40	98.00	20	





THIS PLAN IS TO BE READ IN CONJUNCTION WITH CIVIL PLANS 119123-NLD, 119123-GP1&GP2 AND 119123-GR1&GR2

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, 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.

No.	REVISION	DATE	BY
2	REVISED PER CITY COMMENTS	OCT 6/23	DDB
1	ISSUED FOR CITY OF OTTAWA REVIEW	MAY 3/23	DDB

SCALE
1:750
1:750
0 10 20 30

DESIGN SM / BM / DDB
CHECKED DDB
DRAWN SM
CHECKED BM / DDB
APPROVED DDB

FOR REVIEW ONLY

LICENSED PROFESSIONAL ENGINEER
D. D. BLAIR
100122737
Oct. 6 2023
PROVINCE OF ONTARIO

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LOCATION
CITY of OTTAWA
480 & 486 CITIGATE DRIVE - PROPOSED WAREHOUSES

DRAWING NAME
POST-DEVELOPMENT STORMWATER MANAGEMENT PLAN

PROJECT No. 119123
REV REV # 2
DRAWING No. 119123-SWM

D07-12-23-0064

plan #

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