



STORM DRAINAGE CRITERIA - SCS METHOD

CURVE NUMBERS:
CN: WOODS-73; R.O.W.-92; WETLAND-45; ROOFS-98
DEVELOPMENT P005-77 (2011 IMPERVIOUS)

PRE	FLOW TO	FROM POINT	AREAS CONTRIBUTING TO CALCULATE FLOW	AREA (Hectares)	PRELIMINARY ESTIMATED 10YR DESIGN EVENT FLOW (L/s)
A	(01)	(01)	A1, A2	11.25±	930
B	(02)	(02)	B1, B2	55.41±	4600
C	(03)	(03)	C1, C2	10.41±	790
D	(04)	(04)	D1, D2, D3	33.62±	2280
E	(05)	(05)	E1, E2	40.84±	2690
F	(06)	(06)	F1	5.08±	730

POST	FLOW TO	FROM POINT	AREAS CONTRIBUTING TO CALCULATE FLOW	AREA (Hectares)	PRELIMINARY ESTIMATED 10YR DESIGN EVENT FLOW (L/s)
A	(01)	(01)	A1, A2	10.79±	1150
B	(02)	(02)	B1, B2, C1	62.00±	8250
C	(03)	(03)	C2	4.76±	350
D	(04)	(04)	D1, D2, D3	27.97±	4050
E	(05)	(05)	E1, E2, E3, E4	44.86±	5950
F	(06)	(06)	F1	5.08±	750
G	(07)	(07)	G1	1.23±	250

- NOTE:
1. SYNTHETIC DESIGN STORM DISTRIBUTIONS BASED ON HALIFAX RAINFALL DATA, OBTAINED FROM ENVIRONMENT CANADA (LATEST EDITION).
24hr = 10yr = 151mm
 2. 2m CONTOURS OBTAINED FROM NOVA SCOTIA PROVINCIAL MAPPING DATABASE.
 3. STORM DRAINAGE DISCHARGE LOCATIONS TO BE DIRECTED TO DISPERSION APRONS & VEGETATED AREAS BEFORE ENTERING NATURAL DRAINAGE CHANNELS OR WATER BODIES.
 4. CULVERT SIZES & DRAINAGE PATTERNS TO BE DETERMINED DURING DETAILED DESIGN AND ARE SUBJECT TO CHANGE AS REQUIRED.
 5. PRE/POST ANALYSIS ONLY CONSIDERS THE SUBJECT LANDS WITHIN WINDGATE VILLAGE. FINAL STORMWATER DESIGN TO BE COMPLETED DURING THE DESIGN PHASE OF THE DEVELOPMENT AND SHALL CONSIDER OFF-SITE CONTRIBUTIONS TO FLOW. FINAL DESIGN SHALL INCLUDE STORM WATER DESIGN REPORT FOR SUBDIVISION DEVELOPMENT.
 6. DITCHES SHALL BE DESIGNED TO CARRY THE 1:100 YEAR STORM.
 7. DRIVEWAY CULVERTS SHALL BE DESIGNED TO CARRY THE 1:10 YEAR STORM.
 8. CROSS CULVERTS SHALL BE DESIGNED TO CARRY THE 1:10 YEAR STORM.

DISCLAIMER: DRAINAGE SUBJECT TO APPROVAL PRIOR TO CONSTRUCTION. THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY WSP CANADA INC. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

REVISION:

NO.	DATE	REVISION
2	2020/03/12	REVISED & REISSUED FOR D.A.
1	2015/02/26	ISSUED FOR DEVELOPMENT AGREEMENT
0	2015/02/26	ISSUED FOR REVIEW

PROJECT NO: 141-24579-01
DATE: 2015/02/26
PROJ. SCALE: 1:3000
DESIGNED BY: K. O'LEARY, P. ENG.
DRAWN BY: C. LUTZ, CET.
CHECKED BY: K. O'LEARY, P. ENG.

CLIENT: MARQUE INVESTMENTS LTD.

CLIENT REF. #
PROJECT: WINDGATE VILLAGE
OPEN SPACE DEVELOPMENT
BEAVERBANK, NS

TITLE: PRELIMINARY STORMWATER
MANAGEMENT PLAN
FOR DEVELOPMENT AGREEMENT

SHEET NUMBER: 1
SHEET # 1 OF 1
REVISED & REISSUED FOR D.A.
DATE: 2020/03/12