

STORM DRAINAGE ANALYSIS — USDA (SCS) METHOD											
	FLOW TO	IDENTIFIER	AREA (ha)	WEIGHTED RUNOFF COEFFICIENT (CN)	TIME OF CONCENTRATION (min)	2 YR PEAK FLOW (L/sec)	5 YR PEAK FLOW (L/sec)	10 YR PEAK FLOW (L/sec)	25 YR PEAK FLOW (L/sec)	50 YR PEAK FLOW (L/sec)	100 YR PEAK FLOW (L/sec)
PRE-DEVELOPMENT	(X)	(A) + (B) + (C)	±12.15	88 = GRAVEL/ROCK AREAS WITH SOME FOREST VEGETATION	30.0	754.9	1,033.7	1,221.8	1,462.1	1,633.9	1,805.6

STORMWATER MANAGEMENT NOTES

Storm water modeled using Hydrocad V.10.00 software, using the SDA Natural Resources Conservation Service Method (formerly SCS).

- 1. 24Hr modified Chicago storm distribution used, modified in accordance with Halifax Water Specification.
- 100 year storm – total rainfall: 176mm
- 50 year storm – total rainfall: 150mm

STORMWATER MANAGEMENT NOTES

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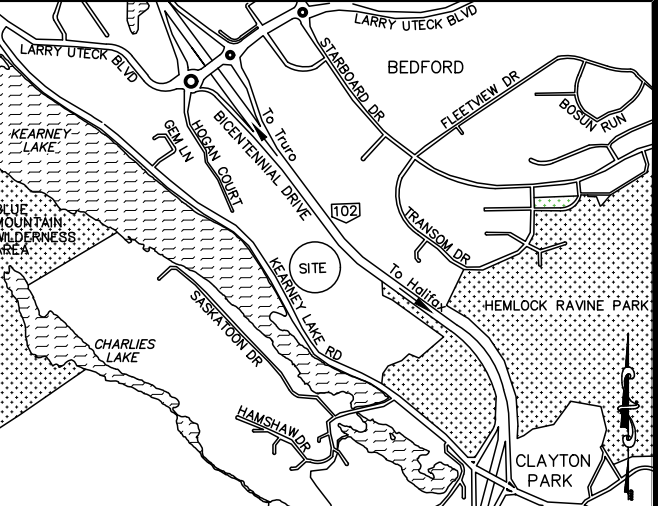
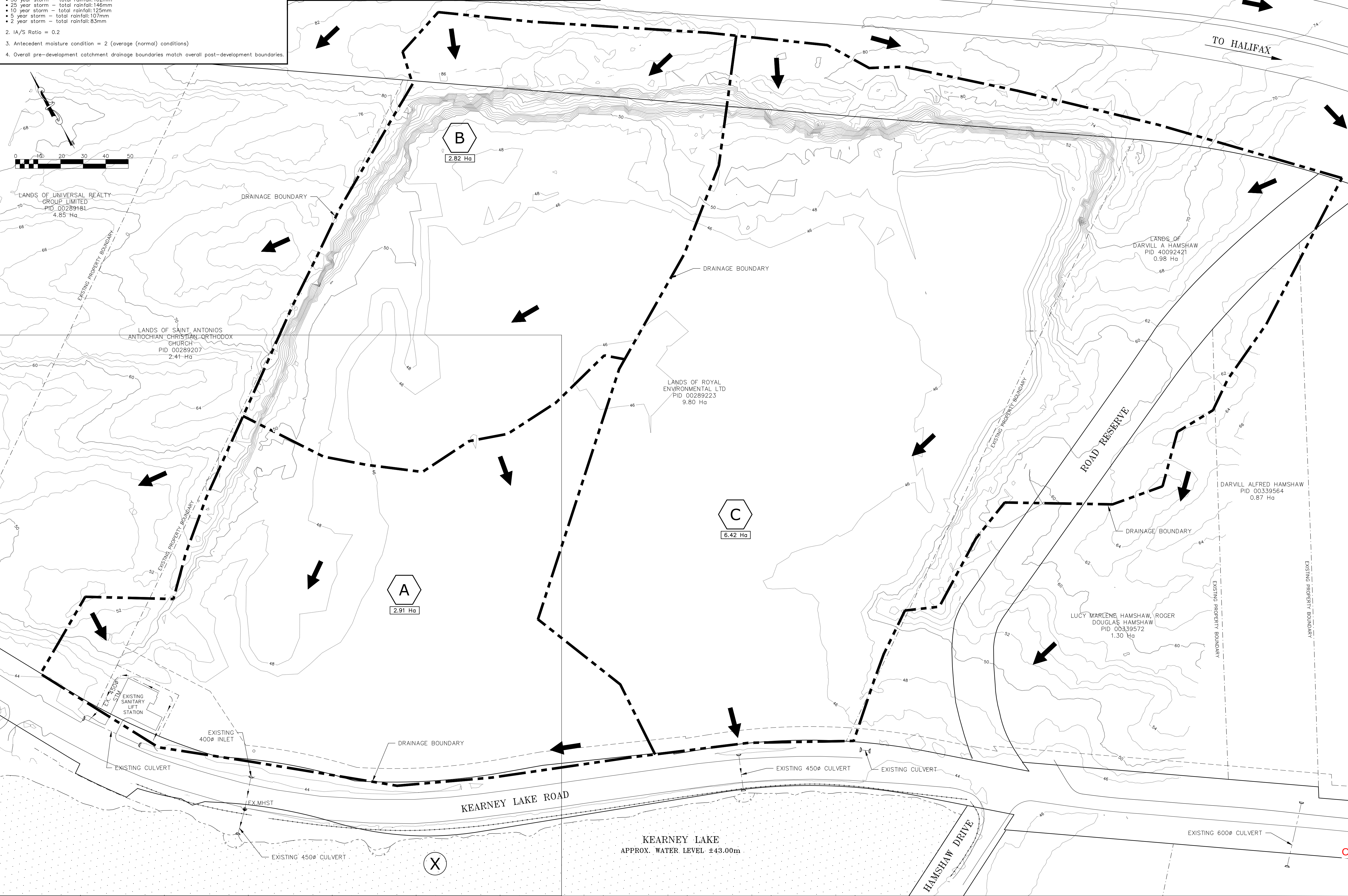
1. 24hr modified Chicago storm distribution used, modified in accordance with Halifax Water Standard Specification.

- 100 year storm — total rainfall:178mm
- 50 year storm — total rainfall:162mm
- 25 year storm — total rainfall:146mm
- 10 year storm — total rainfall:125mm
- 5 year storm — total rainfall:107mm
- 2 year storm — total rainfall:83mm

2. 1A/S Ratio = 0.2

3. Antecedent moisture condition = 2 (average (normal) conditions)

4. Overall pre-development catchment drainage boundaries match overall post-development boundaries.



Key Plan			NOT TO SCALE
LEGEND			
(X)	DRAINAGE AREA IDENTIFIER		
(X)	CRITICAL CALCULATION POINT		
→	FLOW DIRECTION		
WLX	WETLAND IDENTIFIER		
XX.XX Ha	DRAINAGE AREA		
---	EXISTING LOTS		
...	EXISTING ROW		
LOW POINT	LOW POINT IN ROADWAY		
HIGH POINT	HIGH POINT IN ROADWAY		
---	PROPOSED LOTS		
---	PROPOSED ROW		
---	DRAINAGE BOUNDARY		

NOTES:

1. Contour interval is 2.0 metre, based LIDAR mapping blended with actual field data provided by Servant, Dunbrack, McKenzie, & MacDonald Ltd.

1. Updated Site Layout	Oct 27/22	CNB
0. Issued for Review	Mar 5/20	CNB
No. Description	Date	By

Revision or Issue



Project WEST BEDFORD
SUB AREA 10
KEARNEY LAKE ROAD, N.S.

Drawing PRE-DEVELOPMENT
DRAINAGE PLAN

Scale 1:1000

	Date	March 5/20	Drawn	MMH
	Design	Check	Approv.	CNB
	RAW	CNB	CNB	
	Project No.	18-6302	Sheet	1 Of 2
Drawing No.		D01	Rev.	1

