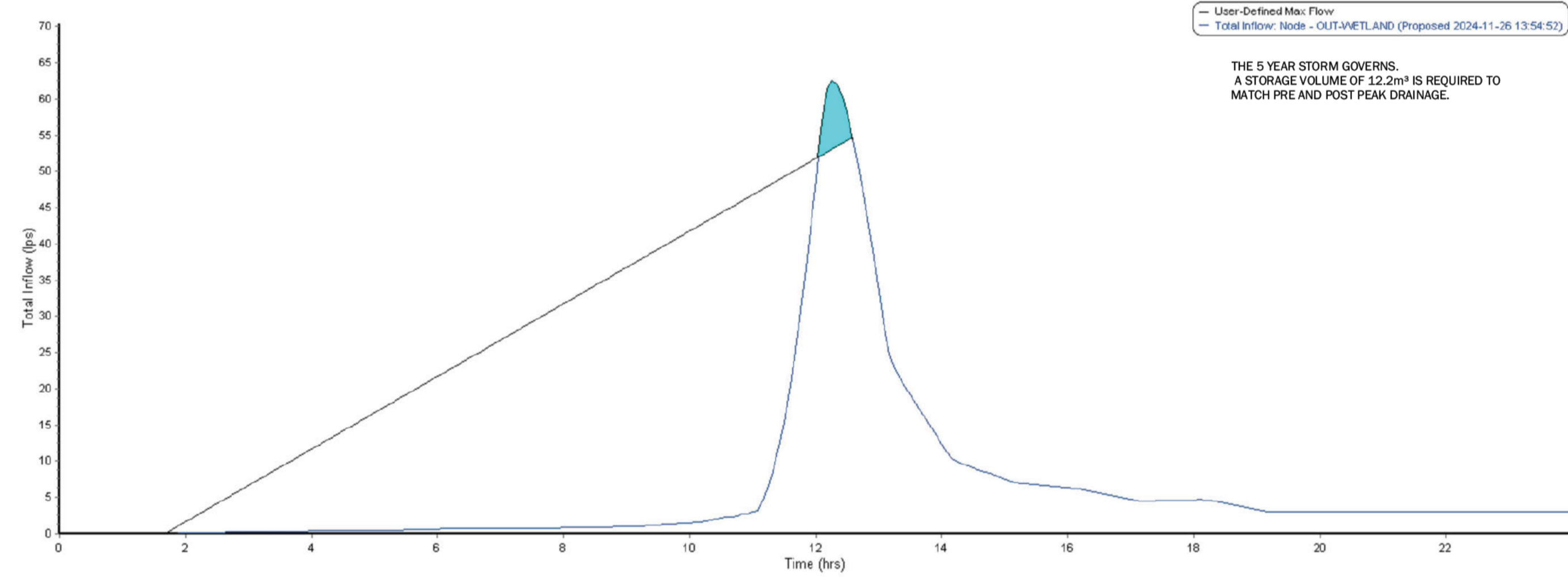
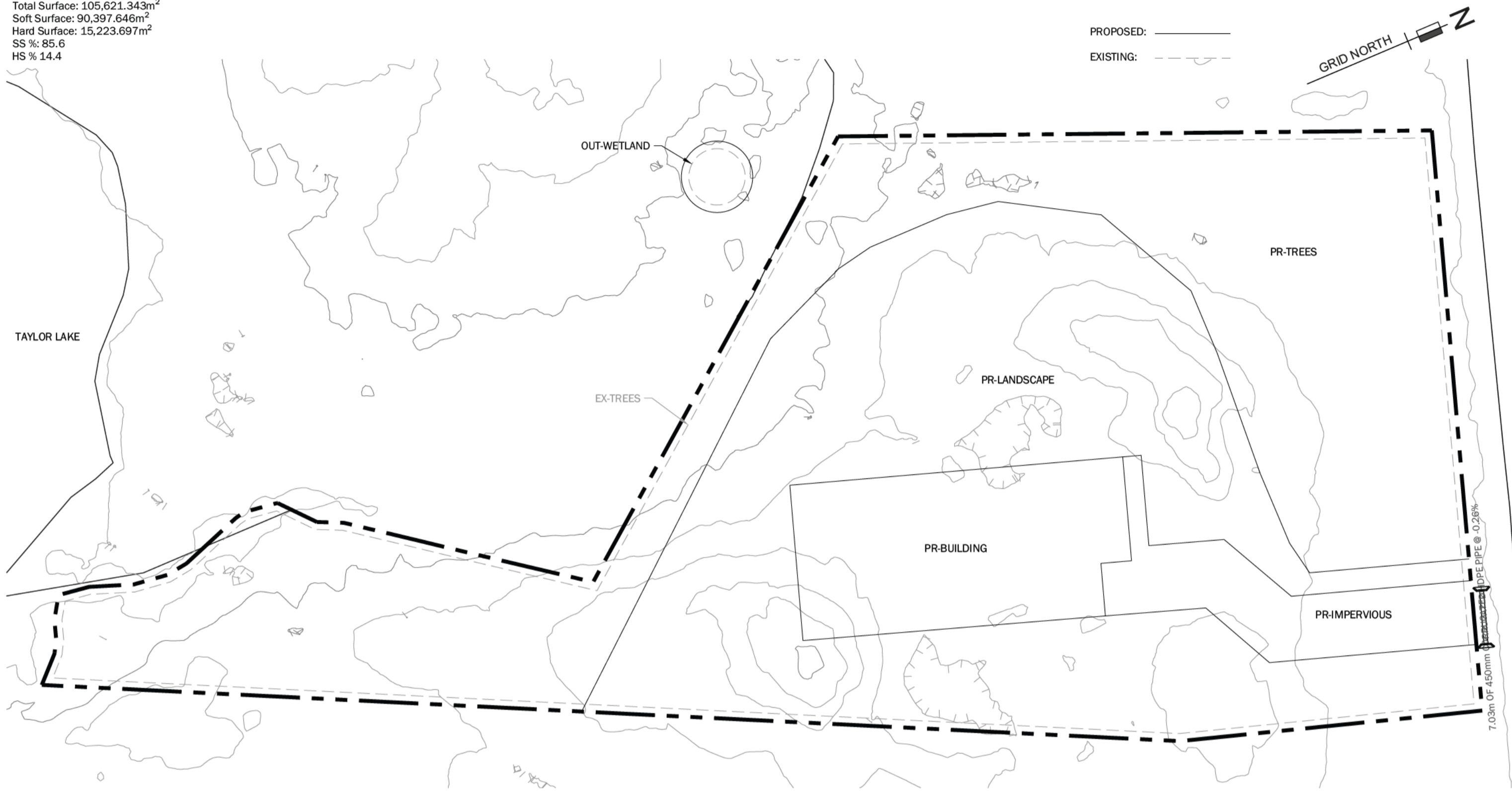


Total Surface: 105,621.343m²
 Soft Surface: 90,397.646m²
 Hard Surface: 15,223.697m²
 SS % 95.6
 HS % 14.4



Time period	Element ID	OUT-WETLAND
From: 11/26/2024, 12:00:00 AM	Maximum Total Inflow (lps)	62.62
To: 11/27/2024, 12:00:00 AM	Minimum Total Inflow (lps)	0.00
Thresholds:	Event Mean Total Inflow (lps)	6.03
Exceedance: 0	Duration of Exceedances (hrs)	N/A
Deficit: 0	Duration of Deficits (hrs)	N/A
Detention storage:	Number of Exceedances	N/A
Max flow: 54.61	Number of Deficits	N/A
	Volume of Exceedance (m³)	N/A
	Volume of Deficit (m³)	N/A
	Total Inflow Volume (m³)	518.46
	Detention Storage (m³)	12190.69

EXISTING 5-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
EX-TREES	0.95	JUT-WETLAND	73.00	111.15	45.80	0.05465	0 00:10:22

EXISTING PEAK FLOW = 0.05461

EXISTING 10-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
EX-TREES	0.95	JUT-WETLAND	73.00	140.28	68.50	0.08354	0 00:10:22

EXISTING PEAK FLOW = 0.08358

EXISTING 25-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
EX-TREES	0.95	JUT-WETLAND	73.00	177.16	99.39	0.12233	0 00:10:22

EXISTING PEAK FLOW = 0.12210

EXISTING 50-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
EX-TREES	0.95	JUT-WETLAND	73.00	204.70	123.50	0.15263	0 00:10:22

EXISTING PEAK FLOW = 0.15189

EXISTING 100-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
EX-TREES	0.95	JUT-WETLAND	73.00	231.54	147.57	0.18265	0 00:10:22

EXISTING PEAK FLOW = 0.18179

PROPOSED 5-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
PR-BUILDING	0.09	JUT-WETLAND	98.00	111.15	105.13	0.01133	0 00:05:00
PR-IMPERVIOUS	0.05	JUT-WETLAND	98.00	111.15	105.11	0.00595	0 00:05:00
PR-LANDSCAPE	0.41	JUT-WETLAND	74.00	111.15	47.68	0.02435	0 00:13:21
PR-TREES	0.40	JUT-WETLAND	73.00	111.15	45.77	0.02294	0 00:10:22

EXISTING PEAK FLOW OUT-DITCH = 0.05461
 PROPOSED PEAK FLOW OUT-DITCH = 0.06262
 REDUCED PEAK FLOW OUT-DITCH = 0.05461

DETENTION STORAGE REQUIRED = 12.2 m³

PROPOSED 10-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
PR-BUILDING	0.09	JUT-WETLAND	98.00	140.28	134.24	0.01444	0 00:05:00
PR-IMPERVIOUS	0.05	JUT-WETLAND	98.00	140.28	134.21	0.00765	0 00:05:00
PR-LANDSCAPE	0.41	JUT-WETLAND	74.00	140.28	70.82	0.03681	0 00:13:21
PR-TREES	0.40	JUT-WETLAND	73.00	140.28	68.50	0.03511	0 00:10:22

EXISTING PEAK FLOW OUT-DITCH = 0.08358
 PROPOSED PEAK FLOW OUT-DITCH = 0.09162
 REDUCED PEAK FLOW OUT-DITCH = 0.08358

DETENTION STORAGE REQUIRED = 9.7 m³

PROPOSED 25-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
PR-BUILDING	0.09	JUT-WETLAND	98.00	177.16	171.07	0.01841	0 00:05:00
PR-IMPERVIOUS	0.05	JUT-WETLAND	98.00	177.16	171.07	0.00963	0 00:05:00
PR-LANDSCAPE	0.41	JUT-WETLAND	74.00	177.16	102.11	0.05352	0 00:13:21
PR-TREES	0.40	JUT-WETLAND	73.00	177.16	99.39	0.05182	0 00:10:22

EXISTING PEAK FLOW OUT-DITCH = 0.12210
 PROPOSED PEAK FLOW OUT-DITCH = 0.13007
 REDUCED PEAK FLOW OUT-DITCH = 0.12210

DETENTION STORAGE REQUIRED = 8.0 m³

PROPOSED 50-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
PR-BUILDING	0.09	JUT-WETLAND	98.00	204.70	198.60	0.02124	0 00:05:00
PR-IMPERVIOUS	0.05	JUT-WETLAND	98.00	204.70	198.58	0.01133	0 00:05:00
PR-LANDSCAPE	0.41	JUT-WETLAND	74.00	204.70	126.44	0.06655	0 00:13:21
PR-TREES	0.40	JUT-WETLAND	73.00	204.70	123.50	0.06456	0 00:10:22

EXISTING PEAK FLOW OUT-DITCH = 0.15189
 PROPOSED PEAK FLOW OUT-DITCH = 0.15947
 REDUCED PEAK FLOW OUT-DITCH = 0.15189

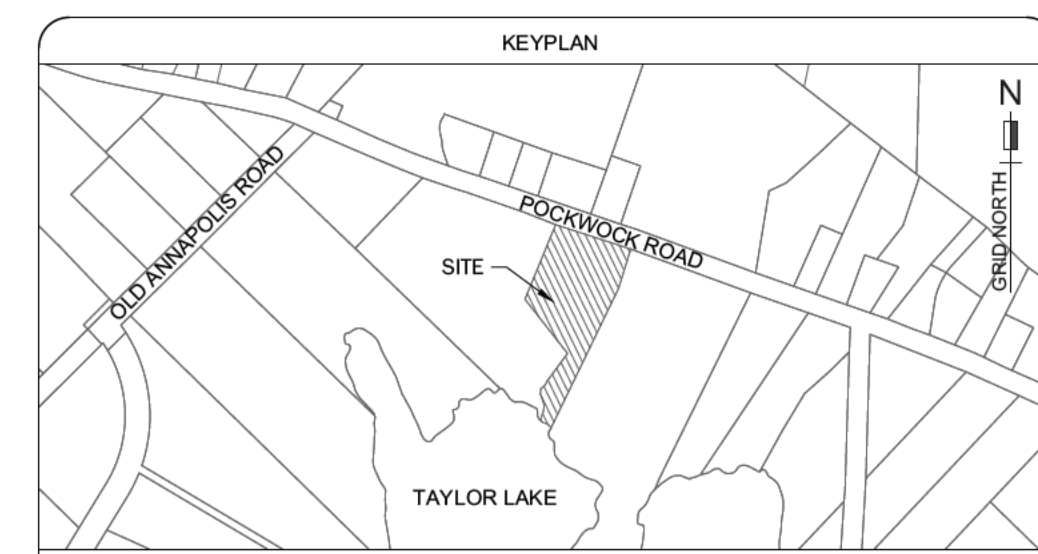
DETENTION STORAGE REQUIRED = 6.9 m³

PROPOSED 100-YEAR STORM SUBBASINS

Element ID	Area (ha)	Drainage Node ID	Weighted Curve Number	Total Precipitation (mm)	Total Runoff (mm)	Peak Runoff (cms)	Time of Concentration (days hh:mm:ss)
PR-BUILDING	0.09	JUT-WETLAND	98.00	231.54	225.43	0.02379	0 00:05:00
PR-IMPERVIOUS	0.05	JUT-WETLAND	98.00	231.54	225.40	0.01274	0 00:05:00
PR-LANDSCAPE	0.41	JUT-WETLAND	74.00	231.54	150.72	0.07929	0 00:13:21
PR-TREES	0.40	JUT-WETLAND	73.00	231.54	147.57	0.07702	0 00:10:22

EXISTING PEAK FLOW OUT-DITCH = 0.18179
 PROPOSED PEAK FLOW OUT-DITCH = 0.18907
 REDUCED PEAK FLOW OUT-DITCH = 0.18179

DETENTION STORAGE REQUIRED = 5.7 m³

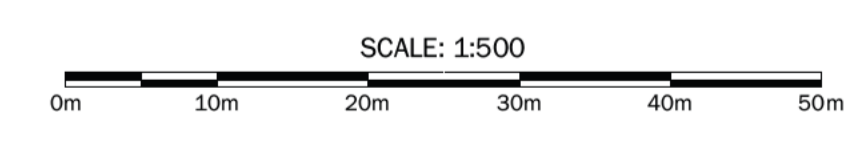


THE STORM WATER RUNOFF FOR THE 1:5, 1:10, 1:25, 1:50, 1:100 YEAR STORM EVENTS WAS ESTIMATED USING STORM & SANITARY ANALYSIS 2020 (SSA) FROM AUTOCAD CIVIL 3D.

THE STORM WATER CALCULATIONS WERE BASED ON THE SOIL CONSERVATION SERVICE METHOD (SCS TR 55) RUNOFF METHODOLOGY USING THE SYNTHETIC DESIGN STORM EVENT COMMONLY REFERRED TO AS THE CHICAGO STORM. THE RAIN FALL AMOUNTS USED IN THE ANALYSIS & MODELING ARE AS FOLLOWS & WERE OBTAINED FROM ENVIRONMENT CANADA RAIN FALL DATABASE.

1:5 = 111.8mm OF RAIN FALL OVER 24HR PERIOD
 1:10 = 141.1mm OF RAIN FALL OVER 24HR PERIOD
 1:25 = 173.2mm OF RAIN FALL OVER 24HR PERIOD
 1:50 = 205.9mm OF RAIN FALL OVER 24HR PERIOD
 1:100 = 232.9mm OF RAIN FALL OVER 24HR PERIOD

No.	MM/DD/YYYY	Revision	Description	By



Horizontal: 1:500	Vertical: N/A	Plot: ARCH D (24"x36")
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Project: **658 POCKWOCK ROAD**
 UPPER HAMMONDS PLAINS, NOVA SCOTIA
 PID: 41029190

Title: **STORM WATER ANALYSIS**

Project No. 241101-67	Drawn: J. LITT	Sheet 2 of 3
Ref.	Engineer: M. VISENTIN	Plan No.
Date: NOVEMBER 26TH, 2024	Check: J. HENMAN	C101

PLOT PREPARED BY: J. HENMAN DATE: 11/26/2024