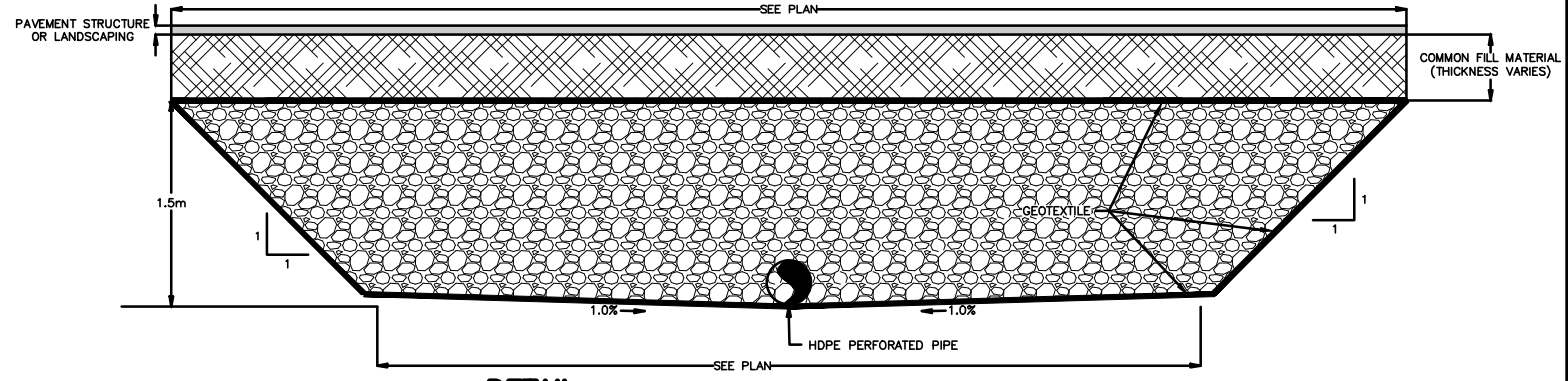


1 DETAIL - INFILTRATION SWALE  
SCALE = N.T.S.

PLAN - SERVICING  
N.T.S.



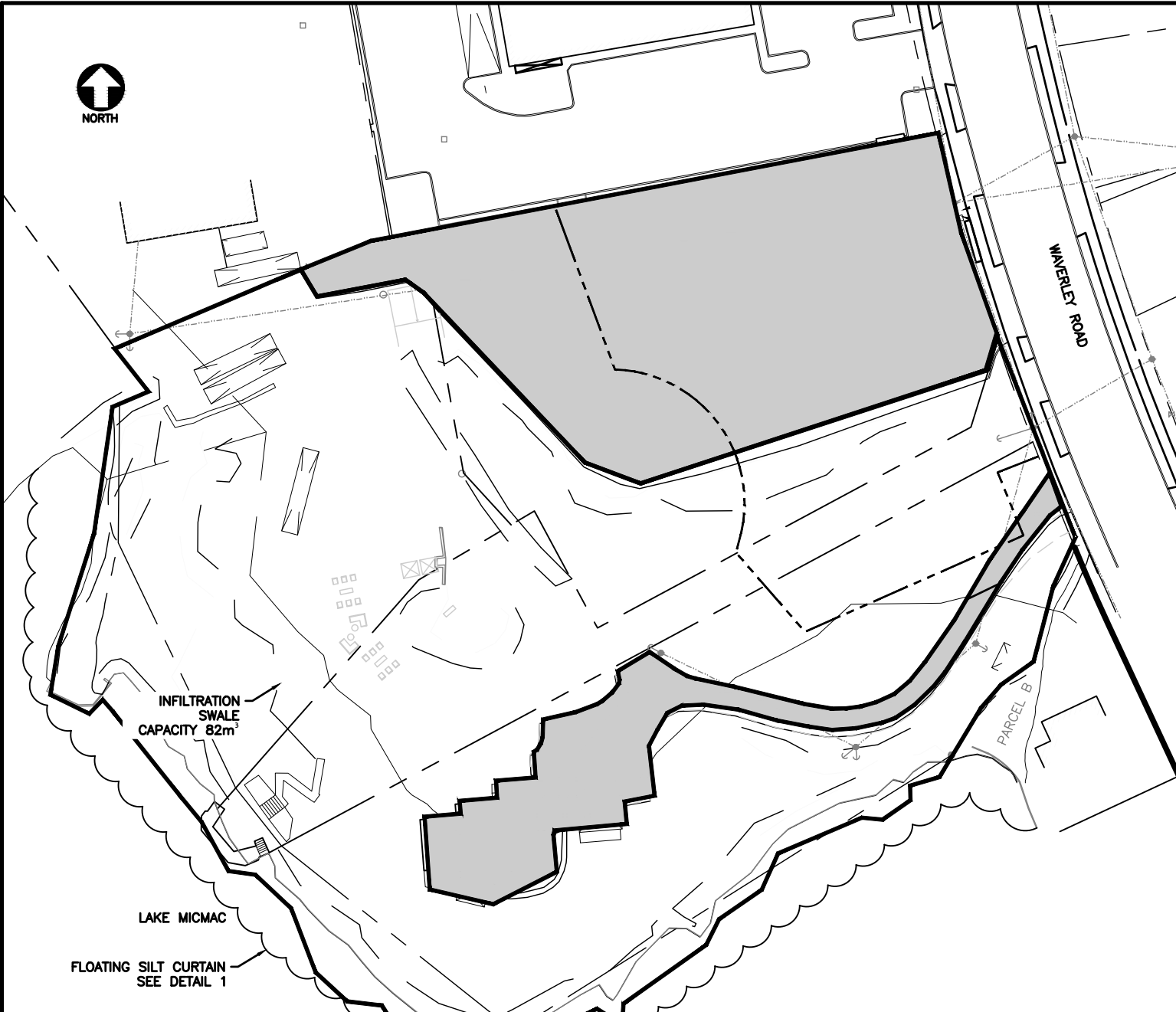
DETAIL - ROCK CELL CROSS SECTION  
N.T.S.

Scale	Date	Drawn	Approved	Project
N.T.S.	JAN 29, 2025	J. HAYWARD	M. MACDONALD	232054



PROPOSED DEVELOPMENT  
217 WAVERLEY ROAD  
DARTMOUTH NS  
SERVICING SCHEMATIC

SKETCH No.  
**FIG-1**



**PLAN—PRE DEVELOPMENT**  
N.T.S

SURFACE CLASSIFICATION	
SURFACE	AREA (m <sup>2</sup> )
ASPHALT	1685
LANDSCAPING	2600
CONCRETE	0
BUILDING	250
UNDISTURBED NATURAL	5571

SURFACE CLASSIFICATION PARKING LOT	
SURFACE	AREA (m <sup>2</sup> )
ASPHALT	1913
LANDSCAPING	0
CONCRETE	0
BUILDING	0
UNDISTURBED NATURAL	1045

Storm Water Management Calculations

MUNICIPALITY: HRM  
PROJECT: 217 Waverley Road  
PROJECT NO.: 232054  
DATE: 29 Jan 25

Area - Building Lot	Area - Parking Lot
Land	Land
Cover	Cover
Asphalt	Asphalt
Landscaping	Landscaping
Concrete	Concrete
Roofing	Roofing
Gravel	Gravel
Undisturbed Natural	Undisturbed Natural
TOTALS	TOTALS
% Impervious	% Impervious

Runoff

Storm	a	b	c
25% (1)	0.0450	0.570	
50% (2)	0.0310	0.500	
75% (3)	0.0200	0.550	
90% (4)	0.0110	0.540	
95% (5)	0.0070	0.540	
99% (6)	0.0020	0.540	

EPA-SWMM Storm Water Modeling Parameters

Green-Arrest Parameters

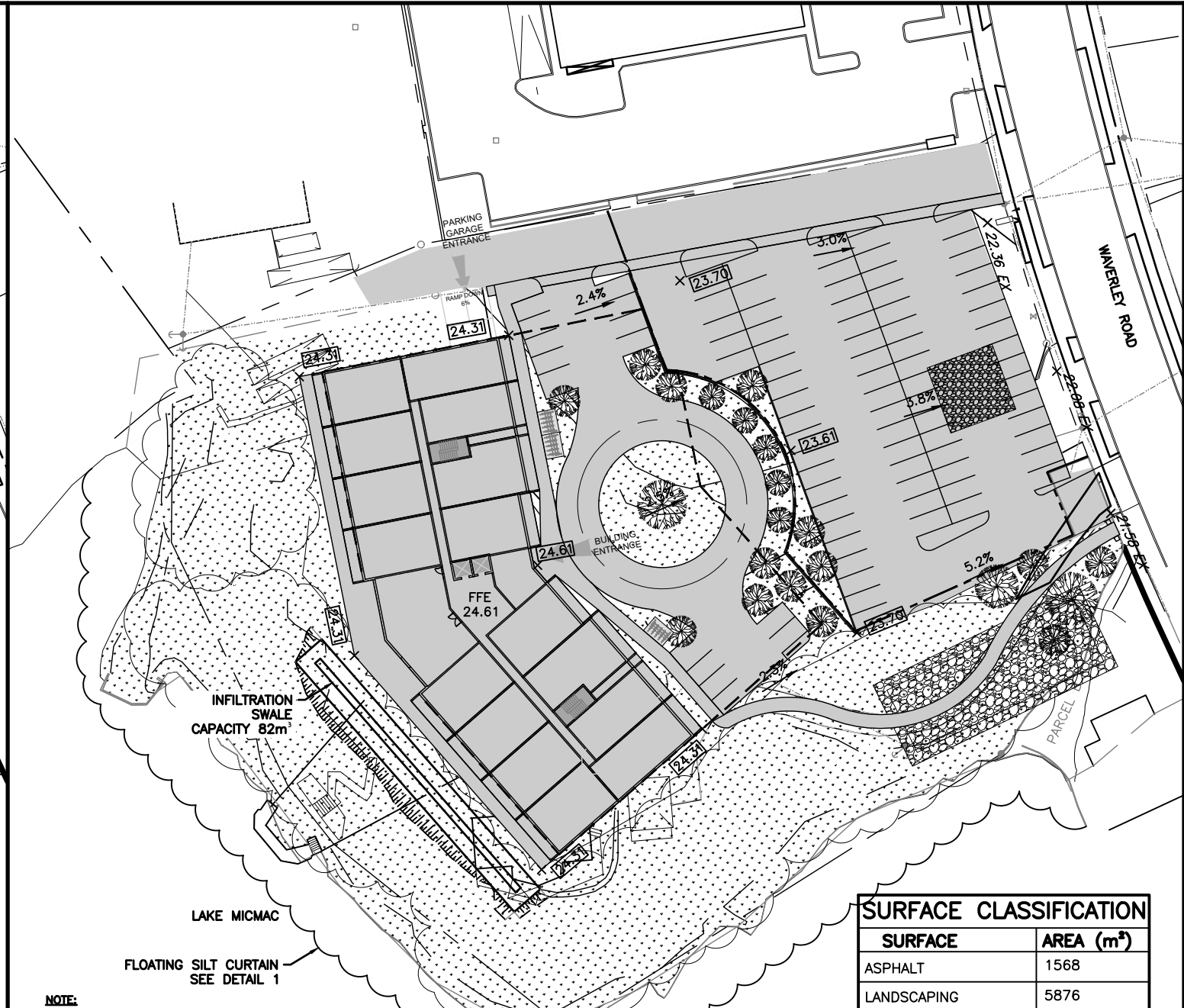
Parameter	Value
Runoff Coefficient	0.20
Impervious Coefficient	0.20
Soil Detention	0.20
Surface Depression Storage Depth	1.0
Impervious Depression Storage Depth	0.5
Soil Infiltration	0.5

Runoff Calculations (EPA-SWMM) (in) Building Lot/Parking Lot

Runoff	Area	Volume
Pre-Development (10 year return)	132.70	30.75
Post-Development (10 year return)	132.70	30.75
Post-Development (100 year return)	132.70	30.75

First 15mm depth calculations (15 minute design storm for 1.5 year return period)

Area	Volume
Building Lot	13.0
Parking Lot	36.6



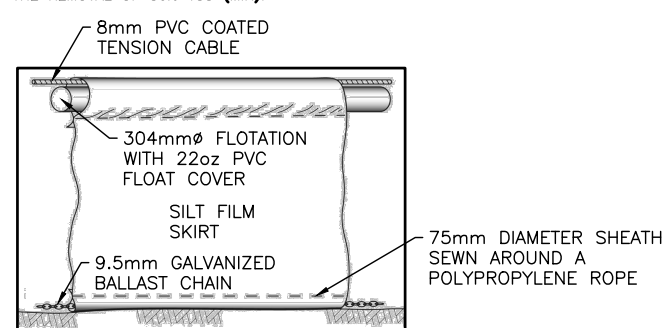
**PLAN—POST DEVELOPMENT**  
N.T.S

SURFACE CLASSIFICATION	
SURFACE	AREA (m <sup>2</sup> )
ASPHALT	1568
LANDSCAPING	5876
CONCRETE	622
BUILDING	2040
UNDISTURBED NATURAL	0

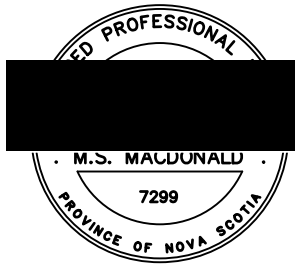
SURFACE CLASSIFICATION PARKING LOT	
SURFACE	AREA (m <sup>2</sup> )
ASPHALT	2699
LANDSCAPING	259
CONCRETE	0
BUILDING	0
UNDISTURBED NATURAL	0

**NOTE:**  
THE REQUIREMENTS OF AO 2020-010-OP RESPECTING STORMWATER MANAGEMENT STANDARDS FOR DEVELOPMENT ACTIVITIES HAVE BEEN MET. THE RETENTION OF ON-SITE STORMWATER RUNOFF FROM THE FIRST 10mm OF A 10 MINUTE DESIGN STORM WITH A 1.5 YEAR RETURN PERIOD IS PROVIDED IN THE INFILTRATION SWALE.

THE INFILTRATION SWALE WILL HOLD STORMWATER RUNOFF UNTIL IT INFILTRATES OR EVAPORATES, ACHIEVING THE REMOVAL OF 80% TSS (MIN).



**1** **DETAIL—FLOTATION SILT CURTAIN**  
SCALE = N.T.S



Scale	Date	Drawn	Approved	Project
N.T.S	JAN 29, 2025	J. HAYWARD	M. STUCKLESS	232054



PROPOSED DEVELOPMENT  
217 WAVERLEY ROAD  
DARTMOUTH NS  
STORMWATER MANAGEMENT PLAN

SKETCH No.  
**SMP**