

SOIL AVAILABILITY ESTIMATE

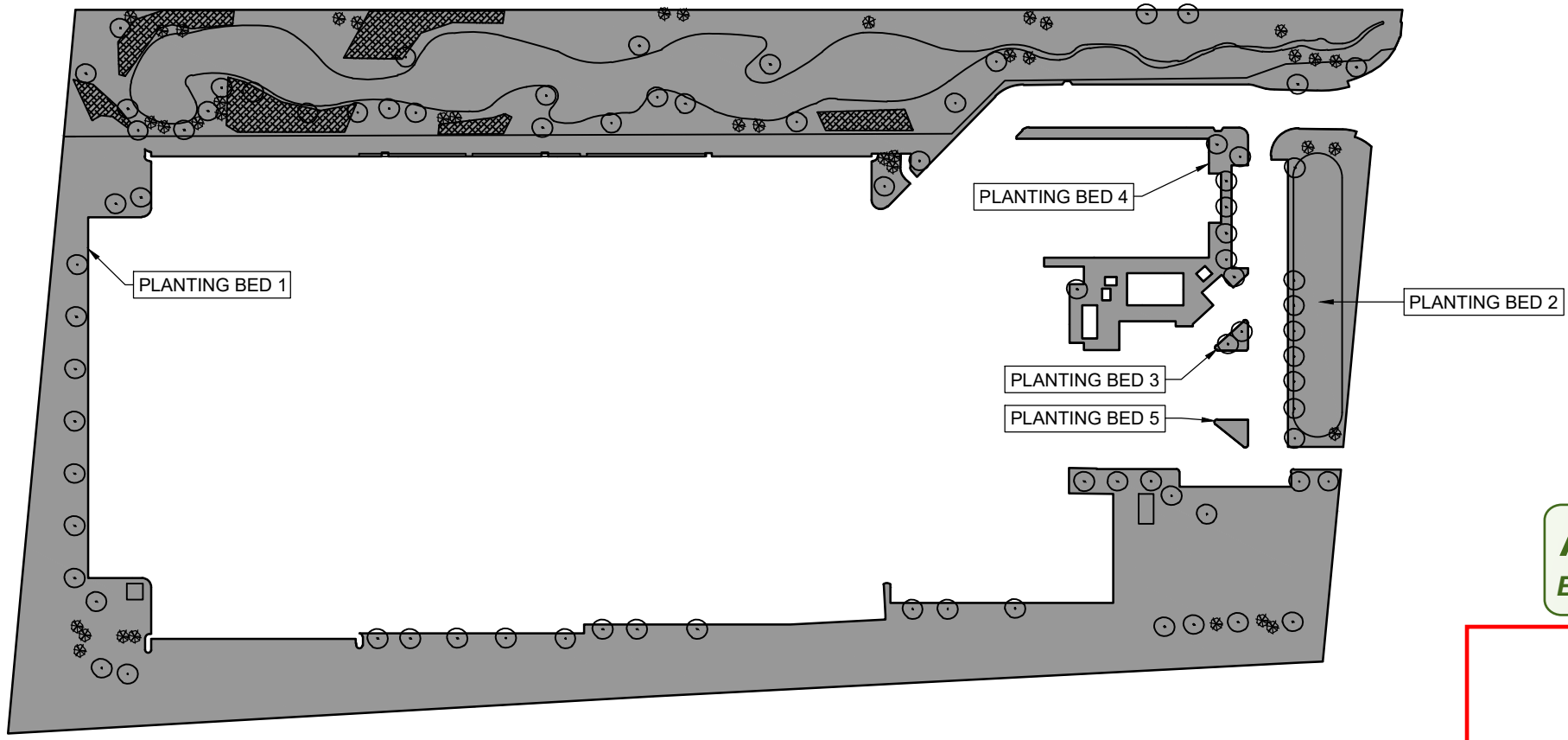
Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Total No. of trees	Min. required Soil volume total (cu m)
			Small/Column (25m²)	Medium (30m²)	Large (35m²)	Evergreen (30m²)		
Planting bed 1	30273	45,410	0	9	53	36	98	2715.00
Planting bed 2	2096	3,144	0	2	7	3	12	335.00
Planting bed 3	57	86	1	1	1	0	2	45.00
Planting bed 4	1239	1,859	1	3	4	0	8	215.00
Planting bed 5	46	69	0	0	0	0	0	0.00

Note: For all planting beds proposed, the available soil depth is considered to be 1.5m.

CANOPY COVER ESTIMATE

ESTIMATED CANOPY COVERAGE AT MATURITY				
SIZE OF TREE	AVERAGE MATURE SPREAD	CANOPY COVERAGE PER TREE (m²)	QUANTITY OF TREES	TOTAL CANOPY COVERAGE (m²)
Deciduous - Small/Column (<7.5m tall)	5m	20	2	35
Deciduous - Medium (7.5-14m tall)	10m	79	14	1100
Deciduous - Large (14m+ tall)	15m	177	64	11309
Coniferous	5m	20	39	766
PROPOSED TOTAL CANOPY COVERAGE (m²):				13214
PROPOSED REFORESTATION PLANTING (m²)*:				5806
TOTAL SITE AREA (m²):				64,894
EST. CANOPY COVERAGE (%):				22%

Area of a circle = $(\pi \times r) \times \pi$
Canopy coverage per tree calculation: (average mature spread/2) x (average mature spread/2) x π
*NOTE: The canopy cover of reforestation planting is calculated with a 7.5m offset outside of the planting areas in order to account for at-maturity factor.



SOIL AVAILABILITY FIGURE
(Not To Scale)

APPROVED
By Adam Brown at 4:08 pm, Jun 30, 2026

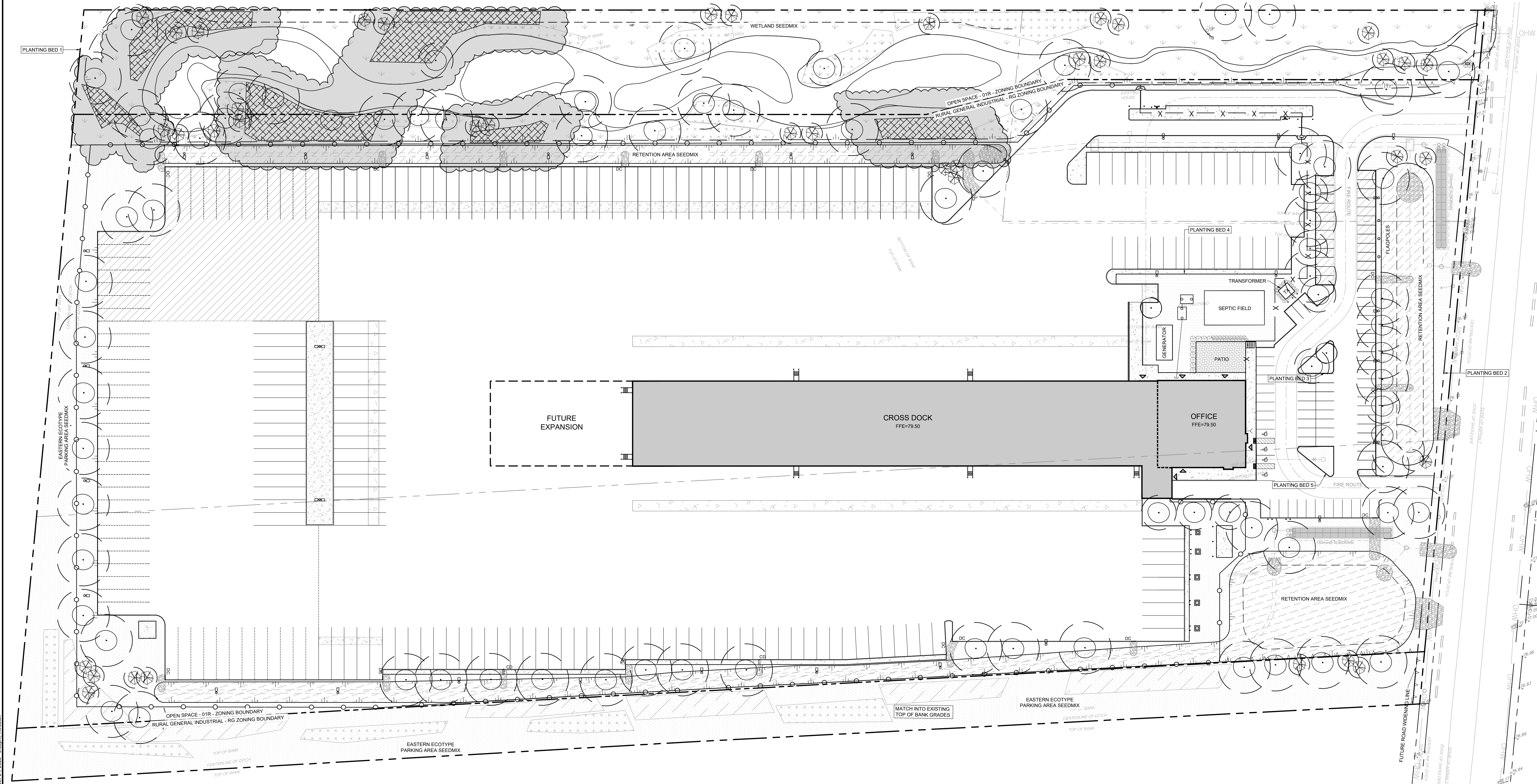
ADAM BROWN
MANAGER, DEVELOPMENT REVIEW RURAL
PLANNING, DEVELOPMENT & BUILDING SERVICES
DEPARTMENT, CITY OF OTTAWA

LEGEND

3-D1	DETAIL SHEET # NOVATECH DETAIL EG. L1, L2, ETC. NUMBER, SEE LIST FOR CODE		PROPOSED DECIDUOUS TREE
	PROPERTY LIMIT		PROPOSED CONIFEROUS TREE
	PROPOSED CONCRETE		SPECIES (SEE PLANT LIST)
	PROPOSED PAVERS		QUANTITY
	PARKING AREA SEED MIX		CHAIN LINK FENCE WITH TURTLE FENCE
	RETENTION SEED MIX		CHAIN LINK FENCE
	WETLAND SEED MIX		TURTLE FENCE
	PROPOSED SANDY BUFFER MIX		PROPOSED EV CHARGING, REFER TO ELE
	PROPOSED WET SOIL SHRUB MIX		PROPOSED LIGHT POLE, REFER TO ELE
	PROPOSED SOIL SHRUB MIX		
	PROPOSED REFORESTATION		
	PROPOSED SNOW STORAGE AREA		
	ESTIMATED CANOPY COVER OF TREES AT MATURITY		
	ESTIMATED CANOPY COVER OF REFORESTATION AREA AT MATURITY		

GENERAL

- Read and interpret this drawing/ drawing set in conjunction with all the contract details and specifications, including related civil, utility, structural, architectural, mechanical, electrical, environmental, geotechnical, and survey information.
- The Contractor is to determine the exact location, size, material, and elevation of all existing utilities prior to commencing construction. Protect and assume responsibility for all existing utilities regardless of being shown on the drawings.
- It is essential to use the plans and details in conjunction with the specifications and notes.
- Do not scale drawings. Work to dimensions only.
- Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
- Reinstate all areas and items damaged or disturbed, beyond the Limit of Work, because of construction activities, including but not limited to construction staging areas, haul roads, stockpile areas, etc. to the satisfaction of the Consultant. Unless otherwise noted, Contractor is to reinstate all areas to pre-construction condition or better to the satisfaction of the Contract Administrator.



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

Owner:
DAY & ROSS INC.
358 MAIN STREET
HARTLAND,
NB E7P 1C6

Civil Engineer
NOVATECH
240 MICHAEL COWPLAND
DRIVE, SUITE 200
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ON K2M 1P6

Surveyor
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VOLLEBERG LTD
14 CONCORSE GATE
SUITE 500, NEPEAN,
ON K2E 7S6

Architect
N45 ARCHITECTURE INC.
ROBERT MATTHEWS
71 BANK STREET,
7TH FLOOR, OTTAWA,
ON K1P 5G2

DISCLAIMER:
The elements on this plan illustrate the design intent and general constructability of the proposed landscape which will support the associated development. This is to demonstrate how the canopy cover, urban design, health, and climate change objectives of the Official Plan will be met through tree planting and site design. This drawing is for City review only and is not intended for construction. Final detailed design and construction documentation is to be provided with certified 'Issued for Construction' drawings and specifications prior to construction.

No	REVISION	DATE	BY
2.	REVISED PER CITY AND SNCA COMMENTS	NOV 14/25	SC
1.	ISSUED FOR COMPLETENESS COMMENTS	FEB 27/25	SC

SCALE	
1:500	
0 5 10 15 20	

DESIGN	KEW
CHECKED	RGJ
DRAWN	KEW/TB
CHECKED	SC
APPROVED	SC

FOR REVIEW ONLY



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LOCATION
CITY OF OTTAWA
5494-5510 BOUNDARY ROAD
DRAWING NAME
SOIL AND CANOPY PLAN

PROJECT No.	118168
REV	REV # 2
DRAWING No.	118168-L3