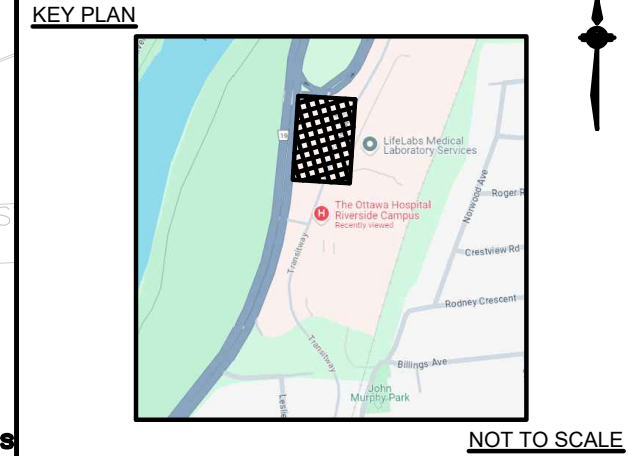


TO ACHIEVE THE 40-YEAR CANOPY PROJECTION, A METHODOLOGY WAS ADAPTED FROM THE NEW CIVIC HOSPITAL CANOPY COVER PLAN:

1. FIRST, PROPOSED TREES WERE PLACED ON THE GROUND PLANE, GIVING EACH TREE CIRCLE WITH A DIAMETER THAT EQUATES TO 2/3 MATURITY BASED ON THE DATA IN THE SOURCE NOTED IN THE CHART.

2. TO FIND THE AREA OF THE TREE CANOPY, A POLYLINE WAS DRAWN AROUND THE PERIMETER OF EACH TREE, OR GROUPINGS OF TREES WITH OVERLAPPING CANOPIES SO AS NOT TO COUNT THE OVERLAP.

3. THE AREAS OF THESE POLYGONS WERE ADDED TOGETHER TO GIVE THE TOTAL CANOPY COVERAGE AREA, WHICH WAS THEN USED TO CALCULATE THE TOTAL PERCENTAGE OF THE SITE THAT IS COVERED BY CANOPY.



Surveyor



ANNIS, O'SULLIVAN, VOLLEBEKK LTD
14 CONCOURSE GATE, SUITE 500
NEPEAN, ONTARIO, K2E 7S6

TOPOGRAPHIC INFORMATION & BENCHMARK

SURVEY COMPLETED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. ON MARCH 21, 2024. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO THE CGVD28 GEODETIC DATUM, DERIVED FROM CONTROL MONUMENT NO. 019680274 HAVING AN ELEVATION OF 66.322m.

BOUNDARY INFORMATION WAS COMPILED FROM PLANS
4R-19213, 4R-35573 AND 4R-36051

JOB BENCHMARK

CUT CROSS ON SIDEWALK NEAR OVERPASS
ELEVATION = 68.53m

Client



RIVERSIDE CAMPUS
1967 RIVERSIDE DRIVE,
OTTAWA, ONTARIO, K1H 7W9



studioRed
landscape architecture

LOT D PROJECTED 40 YEAR TREE CANOPY						
KEY	QTY	BOTANICAL NAME	PROJECTED MATURE CANOPY DIAMETER (m)	40 YEAR PROJECTED CANOPY DIA. (m) (2/3 MATURE DIA.)	PROJECTED CANOPY AREA (m2)	TOTAL COVERAGE AREA (m2)
AREA "A"						493.58
Ar	1	Acer rubrum	15.00	10.00	78.54	
Cc	1	Celtis occidentalis	8.00	5.33	22.34	
Gd	3	Gymnocladus dioica	15.00	10.00	78.54	
Qa	1	Quercus alba	20.00	13.33	139.63	
Qm	1	Quercus macrocarpa	20.00	13.33	139.63	
Qp	1	Quercus palustris	8.00	5.33	22.34	
Pg	3	Picea glauca	6.00	4.00	12.57	
AREA "B"						702.84
Ac	6	Amelanchier canadensis	15.00	10.00	471.24	
Pg	3	Picea glauca	6.00	4.00	12.57	
Group 1 3 Trees Total					219.03	
AREA "C"						117.29
Gt	3	Gleditsia triacanthos	10	6.67	104.72	
Pg	1	Picea glauca	6.00	4.00	12.57	
AREA "D"						204.55
Ar	1	Acer rubrum	15.00	10.00	78.54	
Gt	3	Gleditsia triacanthos	10	6.67	104.72	
Sa	1	Sorbus americana	5	3.33	8.73	
Sd	1	Sorbus decora	6	4.00	12.57	
AREA "E"						638.87
Gt	1	Gleditsia triacanthos	10	6.67	34.91	
Group 2 7 Trees Total					603.96	
*Projected Mature Canopy Diameter values sourced from: https://www.ville.quebec.qc.ca/publications/docs_ville/repertoire_ess_arboricoles.pdf						
TOTAL SITE AREA						4,869 m2
TOTAL CANOPY COVERAGE						2157.12
% OF SITE CANOPY COVERAGE						44%

SOIL VOLUME CALCULATIONS -Tree Quantity and Size -Soil Volume Area and Depth	TREE QUANTITY	CITY OF OTTAWA TARGET SOIL VOLUME (m³)	DESIGN SOIL VOLUME (m³)	SOIL ADEQUACY PERCENTAGE
Area A - 6 Large Trees, 2 Medium Trees, 3 Conifers				
Plant Bed (469m² x 1.00m depth)	11	294	469	159%
Area B - 2 Large Trees, 3 Small Trees, 1 Conifers				
Plant Bed (250m² x 1.00m depth)	6	153	250	163%
Area C - 3 Medium Trees, 1 Conifer				
Plant Bed (160m² x 1.00m depth)	4	93	160	172%
Area D - 2 Large Trees,1 Medium Tree, 2 Small Trees				
Plant Bed (283m² x 1.00m depth)	11	140	283	202%
Area E - 6 Large Trees,1 Medium Tree, 1 Small Tree				
Plant Bed (401m² x 1.00m depth)	8	235	401	170%
Area F - 2 Large Trees, 4 Medium Trees, 2 Conifers				
Plant Bed (638m² x 1.00m depth)	8	216	638	295%
Area G - 1 Conifer				
Plant Bed (54m² x 1.00m depth)	1	18	54	300%

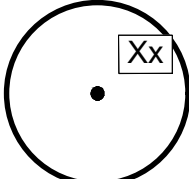
SOIL VOLUME NOTES:

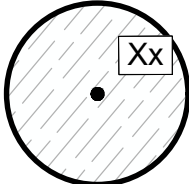
CITY OF OTTAWA TARGET SOIL VOLUMES BASED ON MINIMUM 30m³ FOR LARGE AND MEDIUM TREES, 25m³ FOR SMALL TREES, AND 18m³ FOR CONIFERS.

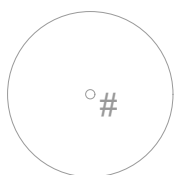
TOTAL SITE AREA = 4,869m²

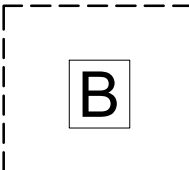
LEGEND:

----- SITE AREA BOUNDARY

 APPROXIMATE TREE CANOPY
AT 40-YEAR GROWTH

 APPROXIMATE TREE CANOPY IN
SITE AREA AT 40-YEAR GROWTH

 EXISTING TREE (REFER TO TCR)

 SOIL VOLUME AREA AND
IDENTIFIER

4	ISSUED FOR REVIEW	KC	2025/03/18
3	ISSUED FOR REVIEW	KC	2025/01/23
2	ISSUED FOR REVIEW	KC	2024/10/31
1	ISSUED FOR REVIEW	KC	2024/10/25
No.	Revision	By	Date (yy/mm/dd)
Scale  SCALE: 1:250			
Project Title			
THE OTTAWA HOSPITAL RIVERSIDE CAMPUS 1967 RIVERSIDE DR., OTTAWA PARKING LOT D			
Drawing Title			
PARKING LOT D 40 YEAR CANOPY PROJECTION + SOIL VOLUME			
Designed by:	KC	Datum 	
Drawn by:	CS		
Approved by:	--		
Project No.	479008		Drawing No.
			L-4