

EXISTING VEGETATION CHART (TREES WITHI AFFECTED AREA)

pungens)

P.O. Box 13593, Stn. Kanata, Ottawa, ON K2K 1X6 TELEPHONE: (613) 838-5717 WEBSITE: WWW.IFSASSOCIATES.CA URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

colour; introduced species; to be removed

(conflicts with bus loop construction)

RE: TREE CONSERVATION INVENTORY FOR 745 SMYTH ROAD (VINCENT MASSEY PS)

Species, ownership, diameter, condition and status of trees at 745 Smyth Road Tree species Owner- DBH² Tree Condition; Age Class; Condition Notes; Species Origin & Preservation Status (to be removed or preserved and protected) Poor; juvenile; entire crown heavily impacted by Red oak salt spray; within moderately restricted rooting (Quercus area; native species; to be removed and rubra) replaced Fair; maturing; central stem with competing laterals Red oak at 2.5m om northwest and 3.5m on north; lower (Quercus crown salt spray impacted; within moderately rubra) restricted rooting area; native species; to be removed (conflicts with bus loop construction) Poor; mature; central stem with suppressed lateral Norway maple | School at 2.5m on east – weak union; divergent leaders at 4.5m; very poor vigour – in advanced decline; platanoides) introduced invasive species; recommended for **removal** (poor condition – potentially hazardous) Sugar maple School 13 Good; maturing; central stem with three competing leaders at 2.75m; stem wound 0.6-1.2m on (Acer southwest healing; native species; to be removed saccharum) (conflicts with bus loop construction) Fair; juvenile; competing leaders; salt spray Red oak impacted; within moderately restricted rooting area; (Quercus native species; to be removed (conflicts with bus loop construction) Sugar maple Good; maturing; central stem for most of height; School suppressed laterals starting at 1.5m; symmetric crown; native species; to be removed (conflicts saccharum) with bus loop construction) Fair; maturing; branch clusters diminishing stem Sugar maple School taper; poor increment (vigour); native species; to (Acer **be removed** (conflicts with swale) saccharum) Colorado School 44 Fair; mature; good pyramidal growth form; good crown density, growth increment and needle spruce (Pices

Table 1. Con't

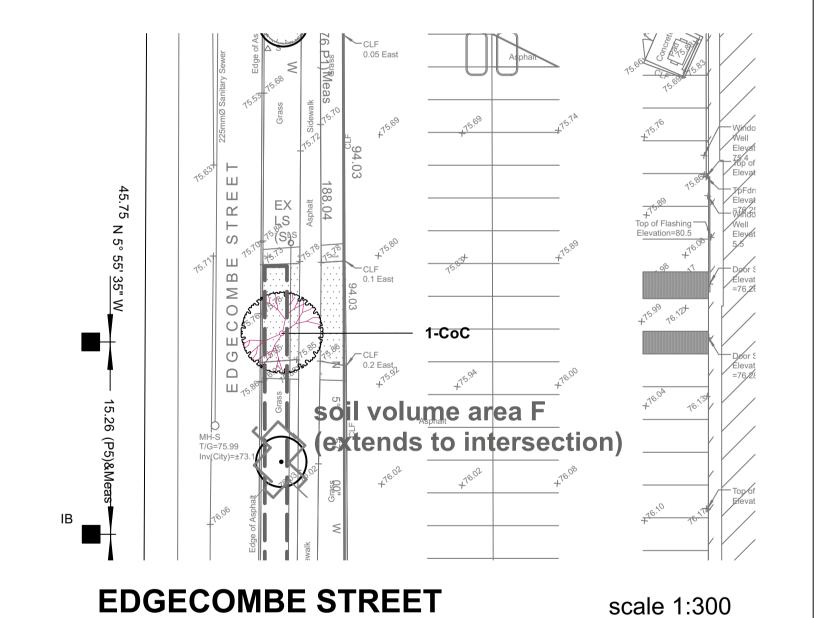
Tree	Tree species	Owner-	DBH^2	Tree Condition; Age Class; Condition Notes;
No.	•	ship ¹	(cm)	Species Origin & Preservation Status (to be
		1	,	removed or preserved and protected)
9	Hackberry	City	21	Fair; mature; co-dominant stems at 3.5m; dense
	(Celtis			epicormic growth on lower bole; within moderately
	occidentalis)			restricted rooting area; native species; to be
	occidentalis)			preserved and protected
10	Red oak	City	25	Good; mature; dominant stem for most of height;
10		City	23	
	(Quercus			lower crown salt spray impacted; within moderately
	rubra)			restricted rooting area; native species; to be
1.1		0.1.1	2.0	preserved and protected
11	Crab apple	School	32	Fair; mature; main stem divergent towards
	(Malus spp.)			northeast; 3 lower laterals previously removed;
				crown held high – 2.5m; poor crown density;
				cultivar; to be removed (conflicts with bus loop
				construction)
12	Crab apple	School	25 &	Good; mature; co-dominant stems at 0.5m – central
	(Malus spp.)		25	stem with different lateral towards northwest; good
				crown density (sprouts); cultivar; to be removed
				(conflicts with bus loop construction)
13	Crab apple	School	24	Fair; mature; mildly divergent towards north;
	(Malus spp.)			moderate basal sprouting; poor crown density;
	, , , , , , , , , , , , , , , , , , , ,			cultivar; to be removed (conflicts with bus loop
				construction)
14	Norway maple	School	63	Very poor; overmature; central stem in decline –
	(Acer			with eutypella canker (Eutypella parasitica) at
	platanoides)			2.5m on south; lateral stem now dominant;
	,			introduced invasive species; recommended for
				removal (very poor condition - hazardous)
15	Sugar maple	School	18	Fair; mature; co-dominant stems at 3m; symmetric
	(Acer			crown; native species; to be removed (conflicts
	saccharum)			with bus loop construction)
16	Sugar maple	School	20	Good; maturing; dominant central stem; symmetric
1.0	(Acer	Sumon		crown; native species; to be removed (conflicts
	saccharum)			with bus loop construction)
17	Sugar maple	School	16	Fair; maturing; multiple leaders at 3m; symmetric
1 /	(Acer	School	10	crown; native species; to be removed (conflicts
	,			
1.0	saccharum)	C:4	0	with bus loop construction)
18	Honey-locust	City	9	Fair; juvenile; within very restricted rooting area;
	(Gleditsia			salt spray impacted; introduced species to Eastern
	triacanthos)			Ontario; to be removed (conflicts with bus loop
				construction)
19	Honey-locust	School	+/-20	Good; maturing; co-dominant stems at 2.5m;
1)	(Gleditsia	School	1/-20	located with fenced play area; introduced species to
	,			
20	triacanthos)	G.1	1.1	Eastern Ontario; to be preserved and protected

Ontario; to be preserved and protected triacanthos) As determined from topographic survey prepared by Farley, Smith & Denis Surveying Ltd.; ² Diameter at breast height, or 1.3m from grade (unless otherwise indicated). Diameters rounded to nearest centimetre.

Fair; juvenile; within very restricted rooting area; salt spray impacted; introduced species to Eastern

(Gleditsia

20 Honey-locust



THIS PLAN IS ISSUED FOR SITE PLAN CONTROL SUBMISSION ONLY.

ADDITIONAL DETAILING AND SPECIFICATIONS ARE REQUIRED PRIOR TO TENDERING AND CONSTRUCTION.

GENERAL NOTES

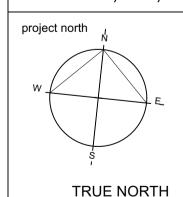
- .1 All general site information and conditions compiled from existing plans, surveys and consultant's field notes. Report all discrepancies prior to any work. No responsibility is born by the Consultant for unknown subsurface conditions.
- .2 The location of the utilities is approximate only, and the exact location should be determined by consulting the municipal authorities and utility companies concerned. The Contractor shall prove the location of utilities and shall be responsible for adequate protection from damage.
- .3 All dimensions shown are to be verified on site prior to any construction. No deviations are to be made from the layouts as shown on this plan without prior consultation with the Landscape Architect and Owner.
- .4 Protect all existig trees as per City of Ottawa Tree Preservation Detail. Where construction activities threaten additional trees, the same measures are to be taken. Consult with the City of Ottawa Forestry Department for mititgation measures affecting any city owned trees prior to starting any excavation or other construction activities.
- Stake planting locations and receive approval of Landscape Architect, prior to excavation of any planting pits. No substitutions of plant material shall be made without prior approval of the Landscape Architect.
- .5 Where clay is encountered proper drainage must be ensured in tree/shrub pits, prior to planting. have method approved by Landscape Architect.
- .6 Maintain positive surface runoff through the entire construction period.
- Reinstate all areas and items damaged as a result of construction activities.

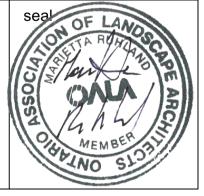
	2	RE-ISSUED FOR SITE PLAN CONTROL	2023/11/06
	1	ISSUED FOR SITE PLAN CONTROL	2022/12/16
	no.	revision	date



VINCENT MASSEY PS BUS LOOP

745 SMYTH ROAD OTTAWA, ON, K1G 1N9





drawing title

EXISTING VEGETATION AND LANDSCAPE PLAN

	scale	drawn by
	AS NOTED	T. FROST
	date	checked by
	DEC. 2022	M. RUHLAND
	project number	drawing number
	number	
	22-1705	-()1

CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY
DISCREPANCIES BEFORE WORK COMMENCES. DO NOT SCALE DRAWINGS.

R1

revision

Plant	t Lis	t			
ID	Qty	Botanical Name	Common Name	Scheduled Size	Remarks
		TREES			
AcB	4	Amelanchier canadensis 'Ballerina'	Ballerina Serviceberry (tree form)	50mm dia.	WB Staked
Ar'AS'	2	Acer rubrum 'Autumn Spire'	Red Maple	70mm caliper	WB, Staked
AsGM	2	Acer saccharum 'Green Mountain'	Green Mountain(R) Sugar Maple	60mm caliper	WB Staked
CoC	6	Celtis occidentalis 'Chicagoland'	Chicagoland Hackberry	60mm dia.	WB Staked
GtS	2	Gleditsia triacanthos 'Shademaster'	Shademaster Honey Locust	60mm caliper	WB Staked
Pp	4	Picea pungens	Colorado Spruce	200 cm ht	WB Staked
UF	2	Ulmus minor x parvifolia 'Frontier'	Frontier Elm	60mm caliper	WB Staked

Vincent Massey Bus Loop				
Soil Volume Area, Tree Quantity and Size	Tree Quantity	OTTAWA Target Soil Volume (m³)	Design Soil Volume	Soil Adequacy percentage
AREA A - 2 ornamental trees, 2 medium trees, 3 large trees				
plant bed (363 sq m x 0.4 ave metre deep)	7	102.0	145.2	142.35%
AREA B- 2 large trees (typical)				
plant bed (124 sq m x 0.4 ave metre deep)	2	36.0	49.6	137.78%
AREA C - 1 ornamental, 2 conifer trees				
plant bed (291 sq m x 0.4 ave metre deep)	3	39.0	116.4	298.46%
AREA D - 1 ornamental, 2 conifer, 1 medium trees				
plant bed (357 sq m x 0.4 ave metre deep)	4	54.0	142.8	264.44%
AREA E1 - 2 proposed large trees, 1 existing large tree				
plant bed (126 sq m x 0.4 ave metre deep)	3	54.0	50.4	93.33%
AREA E2 - 2 large trees				
plant bed (91 sq m x 0.4 ave metre deep)	2	36.0	36.4	101.11%
AREA F -1 Proposed large tree, 3 existing large trees				
plant bed (78 sq m x 0.9 ave metre deep)	4	72.0	70.2	97.50%

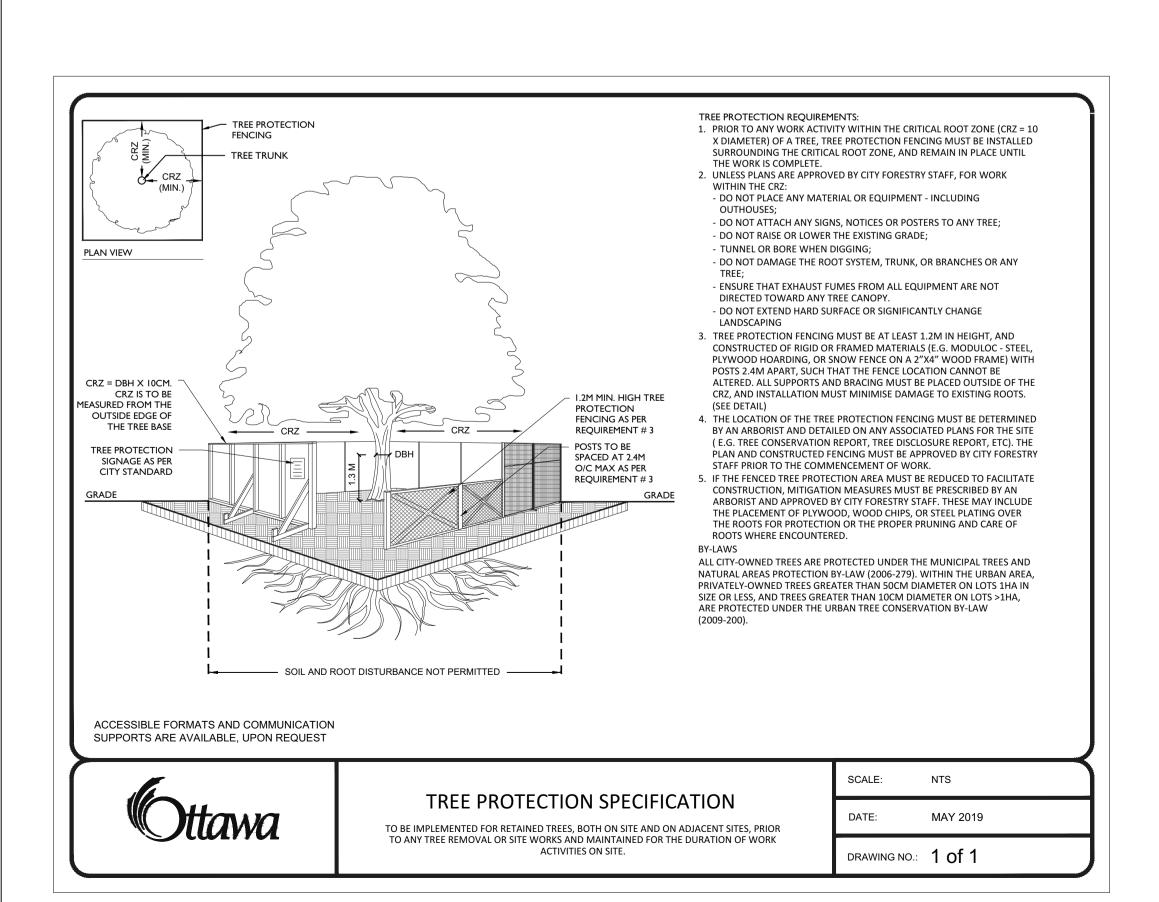
* Small ornamental trees with growth to 8-15cm DBH, large shrubs, and columnar conifers calculated using 'How much soil to grow a big tree' by DeepRoot as a guide

AREAS WHERE SITE CONSTRAINTS (such as parking lot islands, adjacent hard surface areas): 0.9 TO 1.2 METRE DEPTH IMPORTED TOPSOIL (average depth of 1000mm).

AREAS WITHIN OR ADJACENT TO LARGER SOFT LANDSCAPE AREAS (such as wide boulevards, lawns,

0.4 METRE AVERAGE DEPTH OF IMPORTED TOPSOIL OVER APPROVED EXISTING SUBSOIL.

ADDITIONAL IMPORTED TOPSOIL OR APPROVED SUBSOIL TO BE ADDED WHERE SUBGRADE BELOW THE 400mm IMPORTED TOPSOIL IS NOT CONDUSIVE TO PLANT GROWTH.

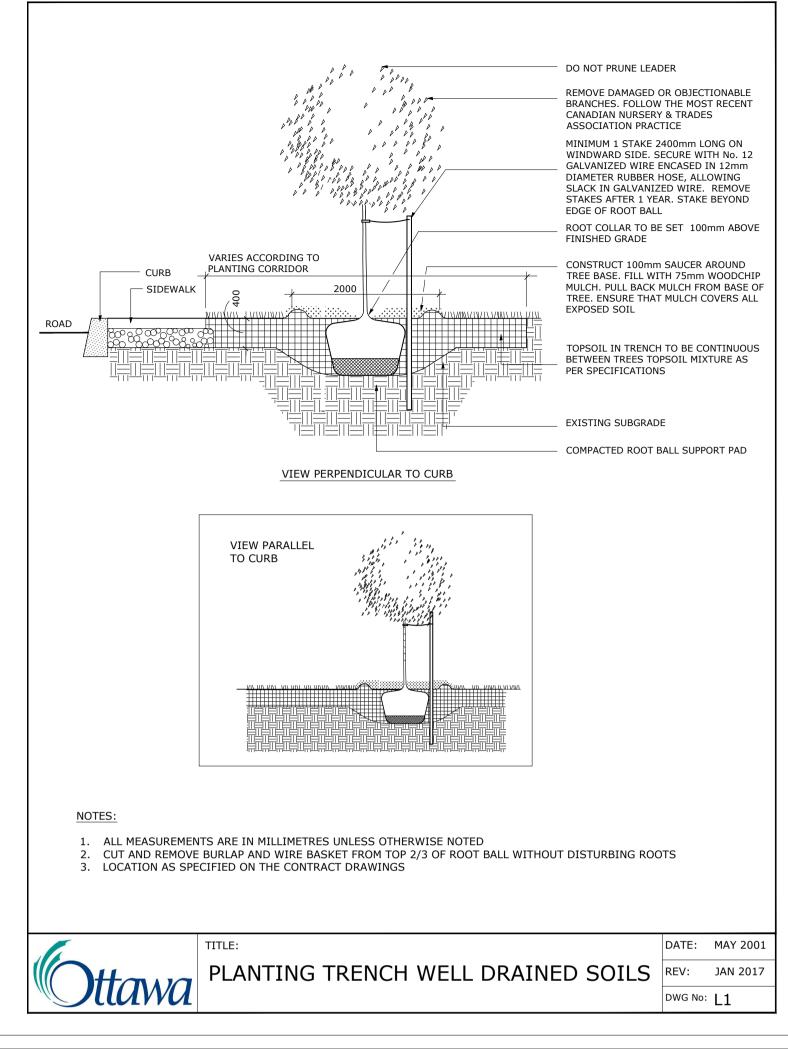


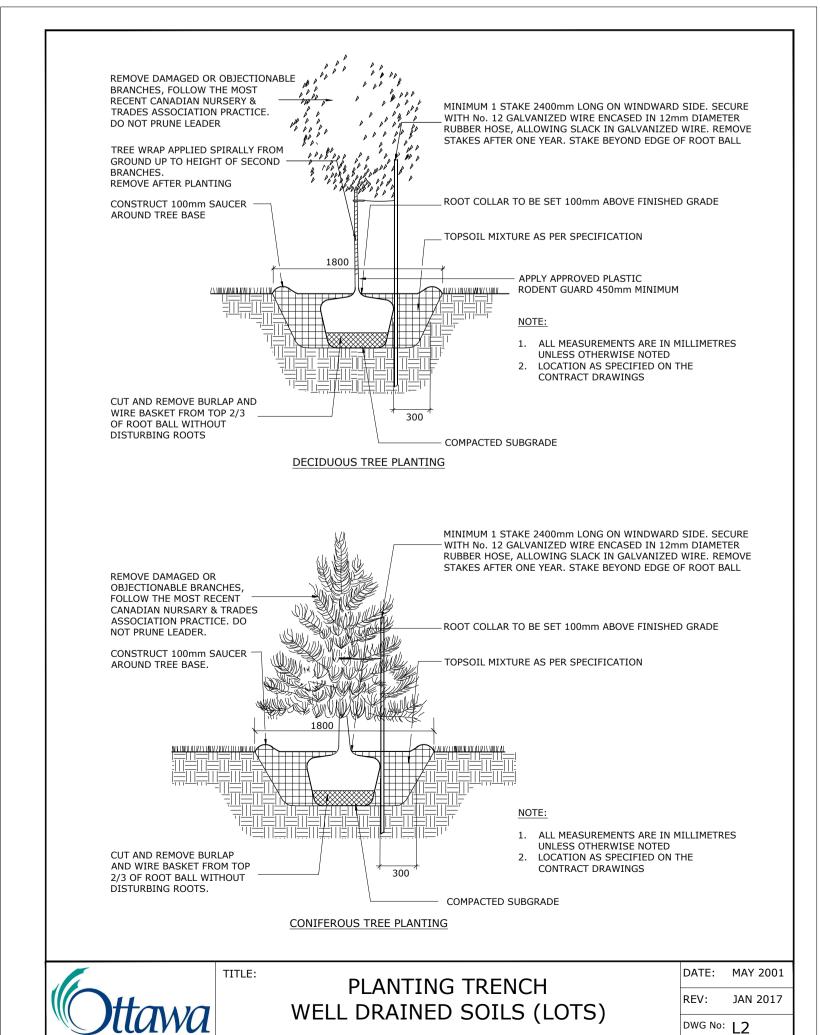
Additional notes for L1 and L2:

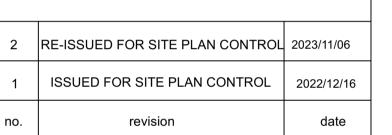
TREE SOIL VOLUME REQUIREMENTS:
STANDARD TREE SOIL VOLUMES QUANTITIES INCLUDE
THE TOP 900-1000mm OF SOIL/EXISTING SUBSOIL LAYER
TO CALCULATE TOTAL SOIL VOLUMES REQUIRED BY CITY
OF OTTAWA FOR SUSTAINABLE TREE GROWTH. WHERE
LARGER SOFT AREAS ARE AVAILABLE, THE TOP
400-500mm LAYER IS USED TO CALCULATE SOIL
VOLUMES (AS PER CITY DETAL L1).

WHERE EXISTING MATERIAL BELOW THE SPECIFIED TOPSOIL IS NOT CONDUCIVE TO TREE GROWTH, AN ADDITIONAL LAYER OF PLANTING MEDIUM IS TO BE INSTALLED BELOW SPECIFIED TOPSOIL DEPTH TO OBTAIN THE SOIL VOLUME DEPTH REQUIRED.

REFER TO SOIL VOLUME CHART AND PLANS FOR AREA WHERE TREE SOIL VOLUMES ARE REQUIRED.









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LANDSCAPE DETAILS

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