

THIS PLAN IS APPROVED BY THE CITY OF OTTAWA UNDER SECTION 41 OF THE PLANNING ACT THIS 28 DAY OF SEPTEMBER , 2022.

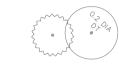
LILY XU, MCIP, RPP, MANAGER **DEVELOPMENT REVIEW SOUTH** PLANNING, INFRASTRUCTURE AND ECONOMIC DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

- DO NOT SCALE DRAWINGS;
- 2. NOTES ARE APPLICABLE TO ALL DRAWINGS IN THE SET;
- 3. Fotenn Consultants Inc. IS NOT RESPONSIBLE FOR ACCURACY OF BASE INFORMATION;
- 4. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING SITE CONDITIONS AND REPORTING ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT;
- CONSERVATION REPORT FOR 2571 LANCASTER ROAD", OTTAWA" DATED AUGUST 30 2021 PREPARED BY IFS ASSOCIATES.
- 7. ANY WORKS WITHIN CRITICAL ROOT ZONE OF THE RETAINED TREES NEEDS TO BE UNDERTAKEN BY HAND AND/OR LIGHT EQUIPMENT TO THE SATISFACTION OF THE ARBORIST/LANDSCAPE ARCHITECT. SEE ALSO NOTE (5) ON #1/T2 FOR MORE INFORMATION.



key plan / plan repère

legend / légende



EXISTING TREES AS PER SURVEY (BY OTHERS) - REFER TO TABLE # & REPORT FOR PRESERVATION TECHNIQUES DURING CONSTRUCTION

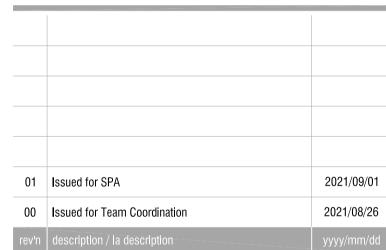




CRITICAL ROOTING ZONE (CRZ) IDENTIFIED - REFER TO TABLE # FOR RADIUS OF CRZ







Ottawa, ON, CANADA K2P 2H7 north / le nord

stamp / le cachet

fotenn.com

ENBRIDGE OTTAWA

OPERATIONS CENTRE 2571 LANCASTER ROAD

drawing / dessin

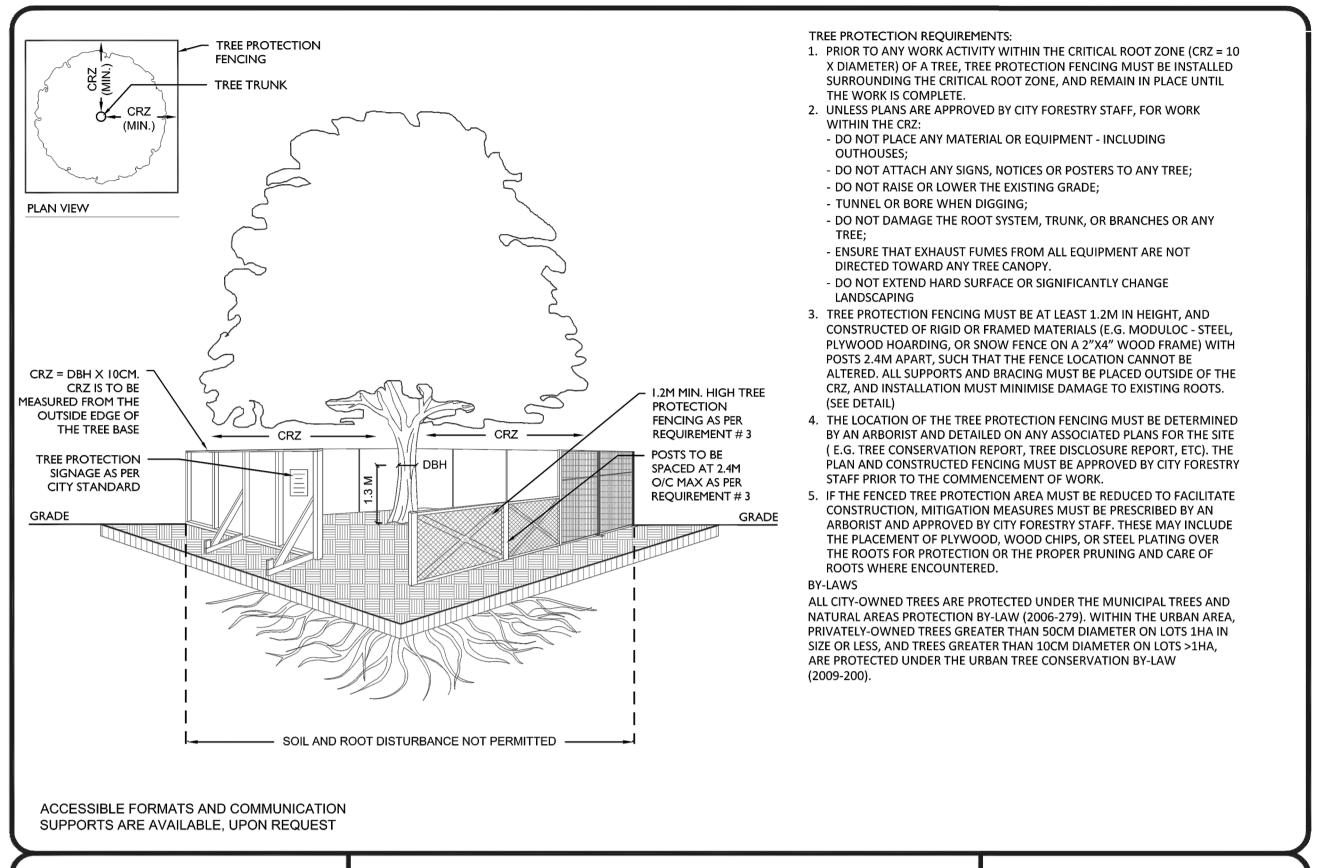
TREE CONSERVATION PLAN

drawn / dessiné SP/MB project number / No. du projet

NO.	SPECIES	D.B.H. ¹ (cm)	OWNERSHIP	TREE CONDITION	STATUS ²	CRZ ³ (m
1	Eastern cottonwood (Populus deltoides)	43	Private	Good; Maturing; central dominant stem with suppressed laterals starting at 2m from grade; native species	To be removed	4.3
2	Russian-olive (Elaeagnus angustifolia)	30	Private	Fair; Mature; co-dominant leaders; divergent; introduced invasive species	To be removed	3.0
3	Manitoba Maple (Acer negundo)	35	Private	Fair; Mature; divergent form; originated from seed; naturalized species	To be removed	3.5
4	Balsam poplar (Populus	30	Private	Fair; Maturing; upright form; competing leaders; native species	To be removed	3.0
	balsamifera)	05	Dulivata	Fair Maturing: unright form: compating leaders	To be removed	0.5
5	Balsam poplar Eastern	25	Private	Fair; Maturing; upright form; competing leaders	To be removed	2.5
6	cottonwood	76	Private	Good; Mature; central stem with competing lateral on east at 4m and suppressed at 2.5m on west	To be removed	7.6
7	Golden weeping willow (Salix alba var. vitellina)	>100	Neighbour	Very poor; Overmature; double-stemmed from grade; north stem topped at +/-10m, south stem multi-stemmed at 2m - one dead, one broken; tree is senescent; cultivar	To be preserved and protected (but should be pruned from over 2571)	10.0
8	Golden weeping willow	+/-60	Neighbour	Poor; Mature; tri-stemmed at 1m - one dead towards 2571, one broken and hung up in crown	To be preserved and protected (but should be pruned from over 2571)	6.0
9	Golden weeping willow	+/-100	Neighbour	Poor; Overmature; multiple co-dominant stems at 2.5m - one dead towards 2571	To be preserved and protected (but should be pruned from over 2571)	10.0
10	Norway maple (Acer platanoides)	+/-40	Neighbour	Poor; Mature; central stem dead, lateral towards south now dominant; introduced invasive species	To be preserved and protected	4.0
11	Colorado spruce (Picea pungens)	32	Private	Poor; Mature; leader dead; fair crown density, growth increment and needle colour below; restricted rooting area; introduced species	To be removed	3.2
12	Colorado spruce	30	Private	Poor; Mature; leader dead; fair density, increment and colour below; restricted rooting area	To be removed	3.0
13	Colorado spruce	26	Private	Good; Mature; narrow, upright form; good density, increment and colour	To be removed	2.6
14	Colorado spruce	34	Private	Good; Mature; lower crown asymmetric; good density, increment and colour	To be removed	3.4
15	Colorado spruce	35	Private	Fair; Mature; planting ropes still present; poor density, fair increment and colour	To be removed	3.5
16	Colorado spruce	25	Private	Fair; Mature; lower crown asymmetric; fair density, good increment and colour	To be removed	2.5
17	Colorado spruce	32	Private	Good; Mature; lower crown thin due to intercompetition for sunlight; good density, increment and colour	To be removed	3.2
18	Colorado spruce	32 31	Private	above Fair; Mature; fair crown density, growth increment and needle colour; restricted rooting area	To be removed	3.2
19	Colorado spruce	29	Private	Fair; Mature; fair crown density, growth increment and needle colour; restricted rooting area	To be removed	2.9
20	Colorado spruce	35 (at 0.5m)	Private	Fair; Mature; double stemmed at 1.4m; lower crown thin due to intercompetition; good density,	To be removed	3.5
	Colorado spruce	. ,		increment and colour above Fair; Mature; lower crown thin due to intercompetition; good density, increment and colour above		
21	·	31 33 (at 0.5m)	Private		To be removed	3.1
22	Colorado spruce		Private	Fair; Mature; double stemmed at 1.3m; fair density, increment and colour; restricted rooting area Fair; Mature; fair density, increment and colour; scattered dead branches due to Cytospora canker	To be removed	3.3
23	Colorado spruce	30	Private	(Cytospora kunzei var. picea); restricted rooting area	To be removed	3.0
24	Colorado spruce	29	Private	Good; Mature; good density, increment and colour; restricted rooting area Poor; Mature; leader dead; many scattered dead branches due to cytospora canker; poor density, fair	To be removed	2.9
25	Colorado spruce	22	Private	increment and colour; restricted rooting area Fair; Mature; double stemmed at grade; good density, increment and colour; lower crown	To be removed	2.2
26	Colorado spruce	23 & 25	Private	asymmetric; fair density, increment and colour Fair; Mature; co-dominant leaders at 4m; many scattered dead branches due to cytospora canker; poor	To be removed	2.3 & 2.5
27	Colorado spruce Red maple	34	Private	density, fair increment and colour Fair; Mature; thin crown with chlorotic foliage; very restricted and compacted rooting area; fair density,	To be removed	3.4
28	(Acer rubrum)	23	Private	increment and colour; native species Fair; Mature; tri-stemmed at 0.7m - central stem with two competing laterals; fair density, increment	To be removed	2.3
29	Colorado spruce	34 (at 0.2m)	Private	and colour; restricted rooting area Fair; Mature; double stemmed at 1.4m; scattered dead branches due to cytospora canker; fair density,	To be removed	3.4
30	Colorado spruce	35 (at 1m)	Private	good increment and colour Poor; Mature; very poor density (only holding 50 percent living foliage), fair increment and colour;	To be removed	3.5
31	Colorado spruce	30	Private	restricted rooting area	To be removed	3.0
32	Colorado spruce	27	Private	Fair; Mature; fair density, increment and colour; crown asymmetric; restricted rooting area	To be removed	2.7
33	Colorado spruce	30	Private	Fair; Mature; leader dead; fair density, increment and colour; divergent towards southwest	To be removed	3.0
34	Colorado spruce White elm	26	Private	Poor; Mature; leader dead; many scattered dead branches due to cytospora canker; poor density, fair increment and colour	To be removed	2.6
35	(Ulmus americana)	54	City	Good; Mature; tri-dominant stems at 3m; lower crown asymmetric towards southwest; no outward signs of Dutch elm disease (Ophiostoma novo-ulmi); native species	To be preserved and protected	5.4
36	Norway maple	+/-30	Neighbour	Fair; Mature; single dominant stem for most of height; crown asymmetric towards southeast	To be preserved and protected	3.0
37	Manitoba maple	+/-70	Neighbour	Dead; Mature; has grown through chain link fence	Recommended for removal (hazardous)	7.0
38	Norway maple	+/-40	Neighbour	Fair; Mature; central stem with two competing laterals at 1.5 and 2m on south	To be preserved and protected	4.0
39	Honey-locust (Gleditsia	+/-40	Neighbour	Good; Mature; co-dominant leaders at 3m with competing laterals at 2m, broad, asymmetric crown towards south; introduced species	To be preserved and protected	4.0
40	triacanthos) Honey-locust	+/-30	Neighbour	Fair; Mature; central stem with competing laterals starting at 1.5m; generally symmetric crown	To be preserved and	3.0
41	Honey-locust	+/-25	Neighbour	Fair; Mature; asymmetric towards southeast/southwest due to shading from nearby maple; physical	protected To be preserved and	2.5
42	Norway maple	+/-50	Neighbour	injury to lower crown from pilling of snow Fair; Mature; central stem with competing laterals on south and west; physical injury to lower crown	protected To be preserved and	5.0
43	Norway maple	+/-30	Neighbour	from piling of snow Poor; Mature; central stem dead, lateral on northwest now dominant; physical injury to stem and lower	protected To be preserved and	3.0
44	Norway maple	+/-30	Neighbour	crown from piling of snow Poor; Mature; branch cluster at 2m - central stem dead, laterals dominant	protected To be preserved and	2.5
45	Norway maple	+/-25	Neighbour	Fair; Mature; co-dominant stems at 2m with two suppressed stems; generally upright form; physical	protected To be preserved and	2.5
45	Norway maple	+/-25	Neighbour	injury to stem and lower crown from piling of snow Fair; Mature; co-dominant stems at 3m - central with competing lateral on southeast	protected To be preserved and	2.5
	White cedar	<u> </u>		Poor - Fair; Mature; hedge form; seeded deciduous trees and restricted rooting area causing trees to	protected To be preserved and	
47	(Thuja occidentalis)	+/-10	Neighbour	decline; native species	protected	1.0
48	Ash species (Fraxinus spp.) Mixed species: ash (Fraxinus spp.), willow, white elm, Manitoba and amur	31	Shared	Good to Poor; Immature to maturing; tree composition primarily trembling aspen and ash (45 and 35 percent respectively by stem count) - aspen generally in good condition, ash mostly infested with	Recommended for removal (hazardous) Entire area to be cleared	3.1
49	maple (Acer tataricum subsp. ginnala), trembling aspen (Populus tremuloides)	>10	Privacy	percent respectively by stem count) - aspen generally in good condition, ash mostly infested with emerald ash borer; shrub layer mainly buckthorn (<i>Rhamnus</i> spp.), ash, dogwood (<i>Cornus</i> spp.) and honeysuckle (<i>Lonicera</i> spp.)	Entire area to be cleared of vegetation	1.0

² TO BE RETAINED OR REMOVED 3 CRZ: INDICATES RADIUS OF CRITICAL ROOTING ZONE AND IS ESTABLISHED AS BEING 10 CENTIMETERS FROM THE TRUNK OF A TREE FOR EVERY 1 CENTIMETER OF TRUNK DIAMETER AT BREAST HEIGHT (DBH). THE CRZ IS CALCULATED AS DBH x 10cm

REFER TO RECOMMENDATIONS IN REPORT PREPARED BY IFS AssociateS FOR TECHNIQUES TO PRESERVE TREES.

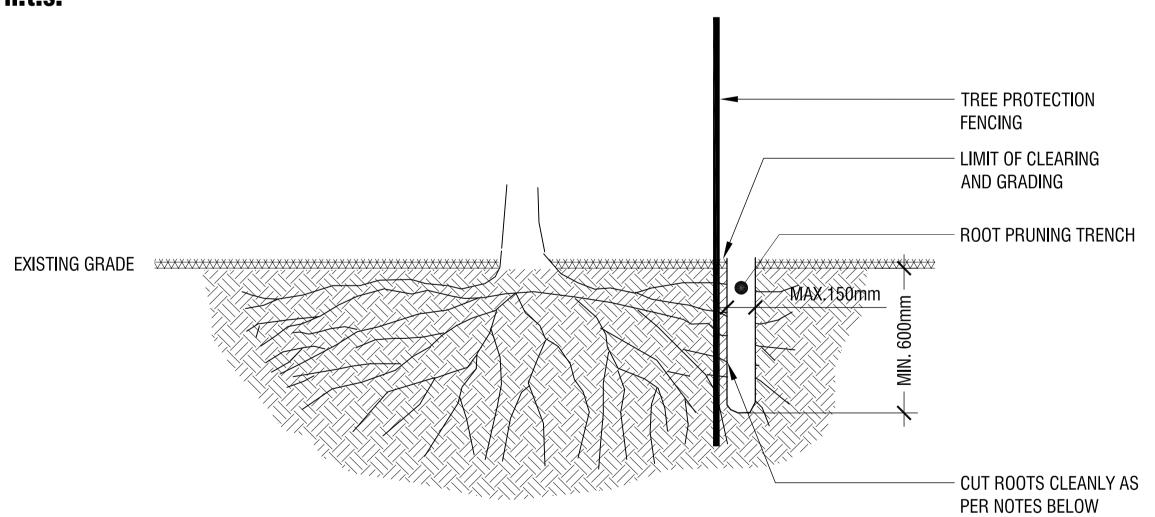


TREE PROTECTION SPECIFICATION

TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

SCALE: NTS DATE: MAY 2019 DRAWING NO.: 1 of 1

TREE PROTECTION FENCING DETAIL



NOTES:

- PROPER ROOT PRUNING TECHNIQUE REQUIRED WHEN TREE ROOTS ENCOUNTERED DURING EXCAVATION.
- EXCAVATIONS WITHIN DRIPLINE SHOULD BE BY DIRECTIONAL MICRO-TUNNELLING AND BORING. OUTSIDE THE DRIPLINE, ROOTS SHOULD BE CUT CLEANLY (AS PER ABOVE DRAWING) WITH PRUNING SHEARS OR A SAW WIPED WITH ALCOHOL BEFORE EACH CUT.
- AFTER ROOTS ARE CLEANLY CUT, THE AREA SHOULD BE BACKFILLED WITH SUITABLE MATERIAL (TO BE APPROVED BY LANDSCAPE ARCHITECT) TO PREVENT DESSICATION;
- WHERE APPROPRIATE, THE TREES SHALL UNDERGO AN OVERALL PRUNING TO RESTORE TREE APPEARANCE AND / OR RESTORE THE BALANCE

BETWEEN TOP GROWTH AND ROOTS. DO NOT PRUNE LEADERS.

ROOT PRUNING DETAIL

THIS PLAN IS APPROVED BY THE CITY OF OTTAWA **UNDER SECTION 41 OF THE PLANNING ACT THIS** 28 DAY OF SEPTEMBER, 2022.



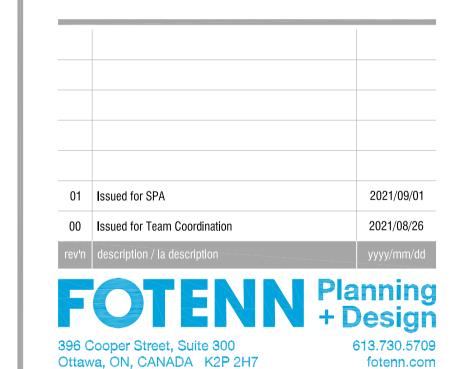
LILY XU, MCIP, RPP, MANAGER **DEVELOPMENT REVIEW SOUTH** PLANNING, INFRASTRUCTURE AND ECONOMIC **DEVELOPMENT DEPARTMENT. CITY OF OTTAWA**

Client / Client

ENBRIDGE®

key plan / plan repère

legend / légende



north / le nord



ENBRIDGE OTTAWA OPERATIONS CENTRE 2571 LANCASTER ROAD

drawing / dessin

TREE INVENTORY & PRESERVATION DETAILS

drawn / dessiné SP / MB KA

project number / No. du projet