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TREE CONSERVATION REPORT

PROJECT NAME:	City of Ottawa South Facility Phase A (SFPA)
PROJECT NO.	18701-1
LOCATION	3505 Prince of Wales Drive, Ottawa, ON
DATE:	December 3rd, 2018 (fieldwork), May 29th, 2019 (Submission)

Refer to attached drawings and aerials for further details (TCP-1 and TCP-2)

SIZE OF DEVELOPMENT AREA (HECTARES)	NUMBER OF TREES AND TREE GROUPS ON SITE	NUMBER OF TREES AND TREE GROUPS TO BE REMOVED	NUMBER OF TREES AND TREE GROUPS TO BE RETAINED AND PROTECTED
6.07	69 (WITHIN PROPERTY BOUNDARY) 5 (ON CITY PROPERTY) 0 (ON ADJACENT PRIVATE PROPERTY)	51 (WITHIN PROPERTY BOUNDARY) 1 (ON CITY PROPERTY)	18 (WITHIN PROPERTY BOUNDARY) 4 (ON CITY PROPERTY) 0 (ON ADJACENT PRIVATE PROPERTY)

2.0 TREE INVENTORY WITHIN PROPERTY LINE

TREE NO.	TREE SPECIES	SIZE (DBH)	CONDITION (GOOD, FAIR, POOR, OR DEAD)	NOTES
1	Silver Maple/*Acer saccharinum*	16 cm	Good	
2	Balsam Poplar/*Populus balsamifera*	85cm	Good	
2 A	Balsam Poplar/*Populus balsamifera*	21 cm	Good	
2 B	White Spruce/ *Picea glauca* Paper Birch/ *Betula papyrifera* Balsam Poplar/*Populus balsamifera*	5-10	Fair/ Good	+/- 8-10 Trees

3	Balsam Poplar/*Populus balsamifera*	96 cm	Good	
4	Balsam Poplar/ *Populus balsamifera*	100 cm	Good	
5	Balsam Poplar/*Populus balsamifera*	96 cm	Fair	Die Back
6	Basswood/*Tilia americana*	12 cm	Good	
7	Balsam Poplar/ *Populus balsamifera*	98 cm	Good	
8	Balsam Poplar/ *Populus balsamifera*	98 cm	Fair	Senescing
8 A	Balsam Poplar/ *Populus balsamifera*	21 cm	Good	
9	Black Walnut/*Juglans nigra*	15 cm	Fair	Broken Leader
10	Balsam Poplar/ *Populus balsamifera*	98 cm	Good	
11	Silver Maple/*Acer saccharinum*	13 cm	Good	
12	Silver Maple/*Acer saccharinum*	14 cm	Good	
12 A	Silver Maple/*Acer saccharinum*	14 cm	Good	
12 B	Silver Maple/*Acer saccharinum*	16 cm	Fair	
12 C	Silver Maple/*Acer saccharinum*	16 cm	Poor	
13	Red Maple/*Acer rubrum*	30 cm	Good	
14	Silver Maple/ *Acer saccharum*	42 cm	Fair	
15	Burr Oak/ *Quercus macrocarpa*	11 cm	Good	
16	Willow/*Salix sp.*	130 cm	Fair	
17	Silver Maple/ *Acer saccharum*	64 cm	Poor	Poor form + water sprouts
18	Balsam Poplar/ *Populus balsamifera*	98 cm	Fair	
19	Willow/*Salix sp.*	95 cm	Fair	
20	Balsam Poplar/ *Populus balsamifera*	96 cm	Fair	
21	Manitoba Maple/ *Acer negundo*	22 cm	Fair	

22	Black Walnut/*Juglans nigra*	10 cm	Good	
23	White Pine/ *Pinus strobus*	8 cm	Good	
24	Hackberry/*Celtis occidentalis* Sugar Maple/*Acer saccharum* White Birch/ *Betula papyrifera* Red Oak/ *Quercus rubra* White Pine/ *Pinus strobus* Basswood/*Tilia americana* White Cedar/ *Thuja occidentalis* Red Pine/ *Pinus resinosa* Burr Oak/ *Quercus macrocarpa*	8–12cm	Fair- Good	+/- 65 trees. Potential for transplant to proposed site features
25	Balsam Poplar/ *Populus balsamifera*	90 cm	Good	
26	Balsam Poplar/ *Populus balsamifera*	85 cm	Good	
27	Larch/*Larix laricina*	10 cm	Good	
28	Silver Maple/ *Acer saccharinum*	56 cm	Good	Crotch at 1.6m
29	Balsam Poplar/ *Populus balsamifera*	115 cm	Good	
30	Balsam Poplar/ *Populus balsamifera*	100 cm	Good	
31	Basswood/*Tilia americana* Red Oak/ *Quercus rubra*	5-12 cm	Fair - Good	+/- 12-15 trees
31 A	Willow/ *Salix sp.*	110 cm	Fair	
32	Red Maple/*Acer rubrum*	52 cm	Fair	
32 A	Red Maple/*Acer rubrum*	30 cm	Good	
32 B	Red Maple/*Acer rubrum*	28 cm	Fair	

32 C	Red Maple/*Acer rubrum*	37 cm	Fair	
33	Sugar Maple/*Acer saccharum*	30 cm	Good	
34	Colorado Blue Spruce/ *Picea pungens 'Glauca'*	37 cm	Good	
35	Black Walnut/ *Juglans nigra*	17 cm	Good	
36	Apple/*Malus*	10-25cm	Fair - Good	+/- 4 trees
37	Silver Maple/ *Acer saccharinum*	56 cm	Good	
38	Silver Maple/ *Acer saccharinum*	41 cm	Good	
39	Red Maple/*Acer rubrum*	15-10cm	Good	Double Stemmed
40	Silver Maple/ *Acer saccharinum*	39 cm	Good	
41	Silver Maple/ *Acer saccharinum*	56 cm	Good	
42	Red Pine/*Pinus resinosa*	32 cm	Good	
42 A	Red Pine/*Pinus resinosa*	30 cm	Good	
43	Silver Maple/ *Acer saccharinum*	39-31cm	Good	Double Stemmed
44	Silver Maple/ *Acer saccharinum*	72 cm	Good	
45	Silver Maple/ *Acer saccharinum*	40 cm	Good	
46	Balsam Poplar/ *Populus balsamifera*	65 cm	Good	
47	Balsam Poplar/ *Populus balsamifera*	93 cm	Good	
48	Balsam Poplar/ *Populus balsamifera*	102 cm	Good	
49	Red Maple/*Acer rubrum*	45 cm	Good	
50	Kentucky Coffee Tree/ *Gymnocladus dioicus*	6 cm	Good	
51	Kentucky Coffee Tree/ *Gymnocladus dioicus*	10 cm	Good	

52	Kentucky Coffee Tree/ *Gymnocladus dioicus*	8 cm	Good	
53	Ash/*Fraxinus sp.*	30 cm	Dead	Dead
54	Red Maple/*Acer rubrum*	37 cm	Good	
54 A	Red Pine/*Pinus resinosa*	35 cm	Good	
55	Silver Maple/ *Acer saccharinum*	95 cm	Good	
56	Sugar Maple/*Acer saccharum*	16 cm	Fair	
57	Red Maple/*Acer rubrum*	22 cm	Poor	Die back, wound in trunk
58	Sugar Maple/*Acer saccharum*	20 cm	Good	
59	Sugar Maple/*Acer saccharum*	23 cm	Good	
60	Sugar Maple/*Acer saccharum*	25 cm	Good	Healed over wound
61	Silver Maple/ *Acer saccharinum*	22 cm	Good	
62	Willow/ *Salix sp.*	8-23 cm	Fair	10 Stems

3.0 ENVIRONMENTAL VALUE AND ECOLOGICAL FUNCTION

TREE NO.	VALUE SCALE 1-10 (1 POOR-10 HEALTHY)	WOODLOT SIGNIFICANCE	SIGNIFICANCE AS A PART OF A GREENSPACE LINKAGE	CONDITION AND HEALTH (GOOD, FAIR, POOR, OR DEAD)	DISTINCT OR RARE TREES WITHIN PROPERTY BOUNDARY
1-62	7	The trees located within property do not form, or are apart of, a woodlot of significance, as evaluated in the Urban Natural Areas Environmental Evaluation Study (UNAEES).	The trees located within the property do not form part of a greenspace linkage, as evaluated in the Greenspace Master Plan.	50 Good 20 Fair 3 Poor 1 Dead	There are twenty-six (26) distinct trees within the property (2-5, 7, 8, 10, 16-20, 25, 26, 28-30, 31 A, 32, 37, 41, 44, 46-48, 55).

4.0 TREE REMOVAL RATIONALE

TREE NO.	RATIONALE (Describe rationale for tree removal, how it will affect existing systems, surrounding landscape, etc.)
15; 16; 18-20; 22-31; 31A; 32; 32A; 32B; 32C; 33-42; 42A; 43-54; 54A; 55-62	The trees listed and noted on TP-1 must be removed due to direct conflict with site infrastructure, underground utilities, new parking lots, and a new building. Site grading will also require the removal of several trees. Some trees and/or tree groupings have the potential to be transplanted to new site features during construction.

5.0 TREE RETENTION RATIONALE AND MITIGATION MEASURES

TREE NO.	RATIONALE AND MITIGATION DESCRIPTION (Describe rational for tree retention, impact of development for remaining trees, grade changes, drainage pattern changes, effects of impervious surfaces and new buildings, changes to the water table, long-term survival promotion, etc.)
1; 2; 2A; 2B; 3-8; 8A; 9-12; 12A; 12B; 12C; 13; 14; 17; 21	Trees outside of the current work area and property limits will remain. Completed buildings and landscape design will not have a significant impact on their ability to grow and remain healthy. Some trees and/or tree groupings have the potential to be transplanted to new site features during construction.

6.0 TREE PROTECTION MEASURES

Measure NO.	Tree Protection Measures
1	Do not place any material or equipment within the CRZ of the tree.
2	Do not attach any signs, notices, or posters to any tree.
3	Do not raise or lower the existing grade within the CRZ of a tree without direction and approval of the landscape architect. Landscape Architect to provide specification of grade changes.

4	Do not damage the root system, trunk or branches of any tree.
5	Ensure that exhaust fumes from all equipment are NOT directed towards the canopy of any tree.

Definition of CRZ:

* D = diameter of trunk in centimeters
D x 10cm = Critical Root Zone (CRZ)

The critical root zone is established as being 10 centimeters from the trunk of a tree for every centimeter of trunk diameter. The trunk diameter is measured at a height of 1.2 metres for trees of 15 centimeters diameter and greater and at a height of 0.3 metres for trees of less than 15 centimeters diameter

7.0 SUGGESTED TREES FOR LANDSCAPE PLAN

NO. OF PROPOSED TREES	SUGGESTED TREE SPECIES	PERCENT OF TREE OFFSET TO THE SITE (%)
102	<u>*General Site*</u> *Acer – saccharum, saccharinum, rubrum* *Amelanchier canadensis* *Celtis occidentalis* *Gleditsia triacanthos* *Ostrya virginiana* *Quercus - macrocarpa, rubrum* <u>*Storm Pond*</u> *Amelanchier canadensis* *Betula papyrifera* *Carya – cordiformis, ovata* *Quercus bicolor* (See TP-2 for locations)	138%

8.0 ADDITIONAL INFORMATION	
OWNER/ APPLICANT NAME	City of Ottawa
ADDRESS	55 Lodge Road, Ottawa, On
TEL. NO.	613-580-2400

PROFESSIONAL NAME	Lashley & Associates Landscape Architecture & Site Engineering
ADDRESS	Suite 202, 950 Gladstone Avenue, Ottawa ON K1Y 3E6
TEL. NO.	613-233-8579

CONTRACTOR NAME	TBD

MUNICIPAL ADDRESSES	3505 Prince of Wales Drive, Ottawa, ON
LEGAL DESCRIPTIONS (LOT, BLOCK, PLAN)	CON 1 RF PT LOTS 10 & 11, City of Ottawa, Ontario.

CONFIRMATION OF EXISTING OFFICIAL PLAN	N/A
CONFIRMATION OF ZONING DESIGNATIONS	N/A
PREVIOUS STATUS OF APPLICATION	N/A

PURPOSE OF REPORT	To describe the existing tree coverage on the property and to identify the trees to be removed or protected for the construction of a new building, parking lots and landscape design. To identify new trees to be planted on site.

11.0 SCHEDULE OF PROPOSED WORKS	
START DATE	TBD
SUBSTANTIAL COMPLETION	TBD

Submitted by:

Ryan Paliga,
Landscape Architect, Arborist ON-1664A