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April 30, 2024

Gino Aiello Landscape Architect 110 Didsbury Road, #9 Ottawa, ON K2T 0C2

RE: TREE CONSERVATION REPORT FOR 1540 - 1560 STAR TOP ROAD, OTTAWA

This Tree Conservation Report (TCR) was prepared by IFS Associates Inc. (IFS) on behalf of Boone Plumbing in support of a site plan control application for the construction of a warehouse and surrounding parking at 1540-1560 Star Top Road.

The need for this report is related to trees protected under the City of Ottawa's Tree Protection By-law (By-law No. 2020-340). The By-law reflects Section 4.8.2. of the City of Ottawa's Official Plan which calls for the retention and enhancement of the city's urban forest to reach the target 40% canopy cover.

Under the by-law, a TCR is required for all plans of subdivision, site plan control applications, common elements condominium applications, and vacant land condominium applications where there is a tree of 10 cm in diameter at breast height (DBH) or greater on a site and/or if there is a tree on an adjacent site that has a critical root zone (CRZ) extending onto a development site. Trees of any size on adjacent City lands must also be documented in a TCR. A "tree" is defined in the By-law as any species of woody perennial plant, including its root system, which has reached or can reach a minimum height of at least 450 cm at physiological maturity. The CRZ is calculated as DBH x 10 cm.

Being at the periphery of the property most existing trees can be preserved. Two notable exceptions are a mature Colorado spruce (*Picea pungens*) fully on the subject property and a mature bur oak (*Quercus macrocarpa*) on adjacent City of Ottawa lands. However, many of the trees along the edges of the property are poplar species – a large growing, weak wooded family of trees prone to failure under wind and ice loads. For this reason, their retention should be carefully considered, especially near the proposed new warehouse.

The approval of this tree conservation report by the City of Ottawa and the issuing of a permit authorizes the removal of approved trees. Importantly, although this report may be used to support the application for a tree removal permit, it does not by itself constitute permission to remove trees or begin site clearing activities. No such work should occur before a tree removal permit is issued authorizing the injury or destruction of a tree in accordance with the By-law. Further, the removal of any trees shared with or fully on neighbouring properties require prior written permission of the adjacent landowner.

Field work for this report was completed in July 2023.



TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 below details the species, ownership, size (diameter), condition and status of the trees on the subject property and adjacent lands. Tree locations are referenced by the numbers plotted on the accompanying tree conservation plans.

Tree	Tree species	Owner-	DBH ²	Tree Condition; Age Class; Condition Notes;
No.		$ship^1$	(cm)	Species Origin & Preservation Status (to be
				removed or preserved and protected)
1	Bur oak	City	27	Fair; maturing; in decline – 20 percent crown
	(Quercus			dieback; invasive Russian-olive (Elaeagnus
	macrocarpa)			angustifolia) growing at base; native species; to
				be removed (conflicts with new entranceway)
2	Colorado	Private	54	Good; mature; good form; fair crown density,
	spruce (Picea			growth increment and needle colour; introduced
	pungens)			species; to be preserved and protected
3	Eastern	Private	17	Fair; maturing; single stemmed with co-dominant
	cottonwood			leaders at 2.25m; originated from seed; growing
	(Populus			against building foundation; native species; to be
	deltoides)			removed (damaging building)
4	Little-leaf	Private	15	Poor; mature; three trees: one dead, two in
	linden (Tilia		avg.	decline; introduced species; to be removed
	cordata)			(conflicts with proposed new landscape)
5	Little-leaf	Private	10	Poor; mature; two trees: both muti-stemmed from
	linden (Tilia		avg.	grade (likely coppice growth from stumps of
	cordata)			previously removed parent trees); introduced
				species; to be removed (conflicts with proposed
				new landscape)
6	Little-leaf	Private	11 &	Fair; maturing; two trees: one tree single
	linden (Tilia		14	stemmed, the other double stemmed from grade;
	cordata)		avg,	introduced species; to be removed (conflicts with
				proposed new landscape)
7	Eastern	Private	18	Fair; maturing; central dominant stem; native
	cottonwood			species; to be removed (conflicts with proposed
	(Populus			new landscape)
	deltoides)			
8	Eastern	Neigh-	+/-15	Dead; two trees in total; native species; to be
	cottonwood	bouring		preserved (though recommended for removal by
	(Populus	property		adjacent landowner)
	deltoides)	-		

Table 1. Species, ownership, diameter, condition and status of trees at 1540-1560 Star Top Road



	. species, owners	mp, utamete	i, conun	ion and status of nees at 1940-1900 Star Top Road
Tree	Tree species	Owner-	DBH^2	Tree Condition; Age Class; Condition Notes;
No.	_	ship ¹	(cm)	Species Origin & Preservation Status (to be
		-	, í	removed or preserved and protected)
9	Largetooth	Private	12	Poor; maturing; three trees in total: all in decline;
	aspen (Populus		avg.	native species; to be removed (due to poor
	grandidentata)			condition)
10	Trembling	Private	14	Poor; maturing; three trees in total: all in decline;
	aspen (Populus	and	avg.	native species; to be removed (due to poor
	tremuloides)	shared		condition)
		with		
		neigh-		
		bouring		
		property		
11	Eastern	Neigh-	+/-25	Dead; three trees in total; native species; to be
	cottonwood	bouring		preserved (though recommended for removal by
	(Populus	property		adjacent landowner)
	deltoides)			
12	Eastern	Six	20	Dead to fair; seven individual trees in total – six
	cottonwood	private,	avg.	on the subject property, one on neighbouring;
	(Populus	one neigh		four dead, three in fair condition; native species;
	deltoides)	-bouring		neighbouring tree to be preserved and
				protected, six on subject property to be
				removed (dead and/or conflict with building,
				grading)
13	Eastern	Neigh-	+/20	Dead to fair; immature to mature; all trees
	cottonwood	bouring		originating from seed; understory composed
	(Populus	property		primarily of buckthorn (Rhamnus spp.); native
	deltoides);			species; to be preserved and protected (form
	Trembling			portion of a riparian area along a municipal drain)
	aspen (Populus			
	tremuloides;			
	White elm			
	(Ulmus			
	americana)			
14	Eastern	Private	21	Good; maturing; six-stemmed from grade; native
	cottonwood		avg.	species; to be removed (conflicts with parking)
	(Populus			
	deltoides)			

Table 1. Species, ownership, diameter, condition and status of trees at 1540-1560 Star Top Road

¹As determined by the survey prepared by McIntosh Perry Surveying Inc.; ²Diameter at breast height, or 1.3m from grade (unless otherwise indicated)

Pictures 1 to 7 on pages 6 through 10 of this report shows selected trees on and adjacent to the subject property.



FEDERAL AND PROVINCIAL REGULATIONS

Federal and provincial regulations can be applicable to trees on private property. In particular, the following two regulations have been considered for this property:

- Endangered Species Act (2007): No butternuts (Juglans cinerea) or black ask (Fraxinus nigra) were identified on the subject or adjacent properties. These tree species are listed as threatened under the Province of Ontario's Endangered Species Act (2007) and so are protected from harm.
- <u>Migratory Bird Convention Act (1994)</u>: In the period between April and August of each year nest surveys are required to be performed by a suitably trained person no more than five (5) days before trees or other similar nesting habitat are to be removed.

TREE PROTECTION MEASURES

Protection measures intended to mitigate damage during construction will be applied for the trees to be retained. The following measures are the minimum required by the City of Ottawa to ensure tree survival during and following construction:

- 1. As per the City of Ottawa's tree protection barrier specification (included on page 5), erect a fence as close as possible to the CRZ of the trees. With grading required to property lines protective fencing will be within CRZs of most trees.
- 2. Do not place any material or equipment within the CRZ of the tree(s).
- 3. Do not attach any signs, notices or posters to any tree.
- 4. Do not raise or lower the existing grade within the CRZ without approval.
- 5. Tunnel or bore instead of trenching within the CRZ of any tree.
- 6. Do not damage the root system, trunk or branches of any tree.
- 7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.
- 8. Ensure roots of tree #2 are protected following removal of nearby curb. If left exposed for any length of time they should be covered with at least three layers of moistened burlap with a top covering of white or clear plastic sheeting to hold the moisture inside.

Please do not hesitate to contact me with any questions concerning this report.

This report is subject to the attached Limitations of Tree Assessments and Liability to which the reader's attention is directed.

Yours,



Andrew K. Boyd, B.Sc.F, R.P.F. (#1828) Certified Arborist #ON-0496A and TRAQualified Consulting Urban Forester





TO MEET CNLA STANDARDS/BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PLANTING

grading, servicing, site and survey plan | Bare root material to be planted in season only | All plant material locations to be staked

CONSULTANT TEAM:	
DESIGN BUILDER: BBS CONSTRUCTION INC.	(613) 226-8830
ARCHITECT: DEIMLING ARCHITECTURE & INTERIOR DESIGN	(613) 697-6113
TRANSPORTATION, PLANNING AND CIVIL: MCINTOSH PERRY CONSULTING ENGINEERS	(613) 836-2184
LANDSCAPE ARCHITECT: GJA INC.	(613) 286-5130
GEOTECHNICAL AND ENVIRONMENTAL: PATERSON GROUP INC.	(613) 226-7381
SURVEYOR: MCINTOSH PERRY SURVEYING INC.	(613) 267-6524
ENVIRONMENTAL PLANNING: MUNCASTER ENVIRONMENTAL PLANNING INC.	(613) 748-3753

4 SPC SUBMISSION	SPC SUBMISSION 4					
1 SPC SUBMISSION	SPC SUBMISSION 3					
# Revision		Date				
	PROPE	RTY OWNER				
4457315 CANADA INC. 3901 RUE JARRY # 250 MONTREAL QUEBEC H1Z 2G1						
P.O. BOX 13593, STN. KANATA, OTTAWA, ON K2K 1X6 TELEPHONE: (613) 838-5717 WEBSITE: WWW.JFSASSOCIATES.CA URBAN FORESTRY & FOREST MANAGEMENT CONSULTING						
NEW WAREHOUSE BOONE						
1540 / 1560 STAR TOP ROAD OTTAWA						
	CONSER R	TREE VATION REPORT				
	TC	R1				



Picture 1. Tree #1, bur oak on City property adjacent to 1540-1560 Star Top Road (note Russian-olive growing at base).





Picture 2. Tree #2, private Colorado spruce at 1540-1560 Star Top Road





Picture 3. Tree groupings #4 and 5 (right to left), private little-leaf lindens at 1540-1560 Star Top Road



Picture 4. Tree groupings #8 and 9 (left to right), neighbouring and private poplars at 1540-1560 Star Top Road





Picture 5. Tree grouping #12, private and neighbouring cottonwoods at 1540-1560 Star Top Road



Picture 6. Tree grouping #13, trees within a riparian area along a municipal drain adjacent to 1540-1560 Star Tep Road



Picture 7. Tree #14, private cottonwood at 1540-1560 Star Top Road



LIMITATIONS OF TREE ASSESSMENTS & LIABILITY

GENERAL

It is the policy of *IFS Associates Inc.* to attach the following clause regarding limitations. We do this to ensure that our clients are clearly aware of what is technically and professionally realistic in assessing trees for retention.

This report was prepared by *IFS Associates Inc.* at the request of the client. The information, interpretation and analysis expressed in this report are for the sole benefit and exclusive use of the client. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the client to whom it is addressed. Unless otherwise required by law, neither all or any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through public relations, news or other media, without the prior expressly written consent of the author, and especially as to value conclusions, identity of the author, or any reference to any professional society or institute or to any initialed designation conferred upon the author as stated in his qualifications.

This report and any values expressed herein represent the opinion of the author; his fee is in no way contingent upon the reporting of a specified value, a stipulated result, nor upon any finding to be reported. Details obtained from photographs, sketches, *etc.*, are intended as visual aids and are not to scale. They should not be construed as engineering reports or surveys. Although every effort has been made to ensure that this assessment is reasonably accurate, the tree(s) should be reassessed at least annually. The assessment presented in this report is valid at the time of the inspection only. The loss or alteration of any part of this report invalidates the entire report.

LIMITATIONS

The information contained in this report covers only the tree(s) in question and no others. It reflects the condition of the assessed tree(s) at the time of inspection and was limited to a visual examination of the accessible portions only. *IFS Associates Inc.* has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the forestry and arboricultural professions, subject to the time limits and physical constraints applicable to this report. The assessment of the tree(s) presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground portions of each tree for structural defects, scars, cracks, cavities, external indications of decay such as fungal fruiting bodies, evidence of insect infestations, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of people and property. Except where specifically noted in the report, the tree(s) examined were not dissected, cored, probed or climbed to gain further evidence of their structural condition. Also, unless otherwise noted, no detailed root collar examinations involving excavation were undertaken.

While reasonable efforts have been made to ensure that the tree(s) proposed for retention are healthy, no warranty or guarantee, expressed or implied, are offered that these trees, or any parts of them, will remain standing. This includes other trees on or off the property not examined as part of this assignment. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or groups of trees or their component parts in all circumstances, especially when within construction zones. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of root loss due to excavation and other construction-related impacts. This risk can only be eliminated through full tree removal.



Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms, and their health and vigour constantly change over time. They are not immune to changes in site conditions, or seasonal variations in the weather. It is a condition of this report that *IFS Associates Inc.* be notified of any changes in tree condition and be provided an opportunity to review or revise the recommendations within this report. Recognition of changes to a tree's condition requires expertise and extensive experience. It is recommended that *IFS Associates Inc.* be employed to re-inspect the tree(s) with sufficient frequency to detect if conditions have changed significantly.

ASSUMPTIONS

Statements made to *IFS Associates Inc.* in regards to the condition, history and location of the tree(s) are assumed to be correct. Unless indicated otherwise, all trees under investigation in this report are assumed to be on the client's property. A recent survey prepared by a Licensed Ontario Land Surveyor showing all relevant trees, both on and adjacent to the subject property, will be provided prior to the start of field work. The final version of the grading plan for the project will be provided prior to completion of the report. Any further changes to this plan invalidate the report on which it is based. *IFS Associates Inc.* must be provided the opportunity to revise the report in relation to any significant changes to the grading plan. The procurement of said survey and grading plan, and the costs associated with them both, are the responsibility of the client, not *IFS Associates Inc.*

LIABILITY

Without limiting the foregoing, no liability is assumed by *IFS Associates Inc.* for: 1) any legal description provided with respect to the property; 2) issues of title and/or ownership with respect to the property; 3) the accuracy of the property line locations or boundaries with respect to the property; 4) the accuracy of any other information provided by the client or third parties; 5) any consequential loss, injury or damages suffered by the client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and, 6) the unauthorized distribution of the report.

INDEMNIFICATION

An applicant for a permit or other approval based on this report shall agree to indemnify and save harmless *IFS Associates Inc.* from any and all claims, demands, causes of action, losses, costs or damages that affected private landowners and/or the City of Ottawa may suffer, incur or be liable for resulting from the issuance of a permit or approval based on this report or from the performance or non-performance of the applicant, whether with or without negligence on the part of the applicant, or the applicant's employees, directors, contractors and agents.

Further, under no circumstances may any claims be initiated or commenced by the applicant against *IFS Associates Inc.* or any of its directors, officers, employees, contractors, agents or assessors, in contract or in tort, more than 12 months after the date of this report.

ONGOING SERVICES

IFS Associates Inc. accepts no responsibility for the implementation of any or all parts of the report, unless specifically requested to supervise the implementation or examine the results of activities recommended herein. If examination or supervision is requested, that request shall be made in writing and the details, including fees, agreed to in advance.

