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URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

April 11, 2019

Gino J. Aiello, Landscape Architect
50 Camelot Drive
Ottawa, ON
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RE: TREE CONSERVATION REPORT – 24 HAWTHORNE AVE.

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in Ottawa. The need for this TCR is related to the proposed demolition of an existing two-storey, single-family dwelling and construction of a new three storey, twelve-unit apartment building. A full basement is proposed for the building. No surface parking spaces are proposed.

The need for this report is related to trees protected under the Urban Tree Conservation By-law 2009-200 and the Municipal Trees and Natural Areas Protection By-law 2006-279. Tree conservation reports are required for all site plan control applications on properties where there is a tree of 10 centimetres in diameter or greater. The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorize the removal of approved trees. **Importantly, although this report may be used to support the application for a City 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 by the City of Ottawa.**

The tree inventory and assessment detailed in this report concerns all trees on and directly adjacent to the subject property. Field work for this report was completed in May 2017 and April 2019.

Given the size and location of the proposed new building, depth of excavation necessary for the basement and changes to grades all existing trees on the subject property will be removed prior to the start of construction. All trees located on adjacent private property at 22 Hawthorne Avenue will be retained. No trees are present on nearby City of Ottawa property.

TREE SPECIES, SIZE, OWNERSHIP, CONDITION AND PRESERVATION STATUS

Table 1 on page 2 details the species, size (diameter), condition, age class and status of the trees on and adjacent to the subject property. Each tree is referenced by the corresponding numbers plotted on the accompanying tree conservation plan



TREE SPECIES, SIZE, OWNERSHIP, CONDITION AND STATUS

Table 1 below details the species, size (diameter), ownership, condition and status of the trees on and adjacent to the subject property.

Table 1. Species, size, ownership, condition and status of trees on and adjacent to 24 Hawthorne Ave.

Tree No.	Tree Species	DBH ¹ (cm)	CRZ ² (m)	Ownership	Tree health, condition and Status (to be removed or preserved and protected)
1	Japanese tree lilac (<i>Syringa reticulata</i>)	22.6	-	Private	Very good; near perfect physiological and structural health; (see picture on page 3); broad, symmetrical crown; cultivar; to be removed as conflicts with development
2	Manitoba maple (<i>Acer negundo</i>)	52.6	-	Private	Very poor physiological and structural health – in advanced decline (see picture on page 4); major deadwood in upper crown – hazardous; introduced species; to be removed due to poor health and conflicts with development
3	Japanese tree lilac	21.1	2.1	Neighbour	Fair; growth stunted due to restricted rooting zone; crown asymmetric due to clearance pruning from building; recent branch loss; cultivar; to be preserved and protected
4	Bur oak (<i>Quercus macrocarpa</i>)	44.0	4.4	Neighbour	Good; very upright form; compact, dense crown – asymmetric due to competition for sunlight with tree #5; good annual increment; crown raised to 4m; native species; to be preserved and protected
5	Manitoba maple	48.1	4.8	Neighbour	Fair; co-dominant stems at 5m; crown asymmetric and stem form divergent due to competition for sunlight with tree #4; crown raised to 4m; introduced species; to be preserved and protected

¹ diameter at breast height, or 1.4m from grade (unless otherwise noted); ² critical root zone - established as being 10 centimetres from the trunk of a tree for every centimetre of trunk diameter at breast height

Pictures 1, 2 and 3 on pages 4, 5 and 6 of this report show selected trees on and adjacent to the subject property.

ENDANGERED SPECIES

No butternut trees (*Juglans cinerea*) were identified on the subject or adjacent properties. This species is listed as threatened under the Province of Ontario's Endangered Species Act (2007) and so is protected from harm.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained adjacent to the subject property. The following measures are the minimum recommended to ensure tree survival during and following construction:

1. Erect a fence as close as possible to the CRZ of trees. At a minimum this fence should be constructed of plastic snow fencing supported by metal t-bars placed at 2m intervals.
2. Do not place any material or equipment within the CRZ of the tree;
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 when digging within the CRZ of a 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.

Please do not hesitate to contact the undersigned with any questions concerning this tree conservation report.

Yours,

Andrew Boyd

Andrew K. Boyd, B.Sc.F, R.P.F. (#1828)
ISA Certified Arborist #ON-0496A and TRAQualified
Butternut Health Assessor #513



Picture 1. Japanese tree lilac on private property in front of 24 Hawthorne Avenue (picture taken May 2017).



Picture 2. Manitoba maple on private property behind 24 Hawthorne Avenue (picture taken April 2019).



Picture 3. Bur oak (left) and Manitoba maple on neighbouring property at 22 Hawthorne Avenue (picture taken April 2019).