



Dendron Forestry Services

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Tree Information Report v2.0

Submitted as part of Committee of Adjustment Application to the City of Ottawa

Address: 243-247 Bradford Street
Date of Report: October 23, 2023
Date of Site Visit: May 24, 2023
Prepared by: Astrid Nielsen, RPF, ISA Certified Arborist
Client: Rocco Manfredi; rmanfredi@royalpage.ca

Committee of Adjustment
Received | Reçu le
Revised | Modifié le : 2023-10-27
City of Ottawa | Ville d'Ottawa
Comité de dérogation

This Report must be read in its entirety, including the Assumptions and Limiting Conditions attached herein.

Purpose of the Report

The purpose of this report is to provide the client with a detailed description of all protected trees on site as per the City of Ottawa's Tree Protection By-law No. 2020-340. This report is part of a Committee of Adjustment application to the City of Ottawa and considers the impact that the proposed development will have on the trees. The assessment of the suitability of tree retention is based on the information provided at the time of report preparation which includes:

- Survey by Fairhall, Moffatt & Woodland Ltd., dated January 6, 2023
- Site plan by City Villages, dated October 26, 2023

Update for v2.0: This revision updates the original report, dated August 3, 2023, and takes into account discussions with the client, and the newly provided site plan.

This assessment does not consider additional factors that could influence tree retainability such as:

- site grading, and requirement for retaining walls and/or swales
- installation of services for the new units
- capping of existing water and sewer services
- installation of gas lines for the new units
- site access

The potential for retaining those tree(s) identified for retention in this report may change as more information on the site-specific construction details is provided during the building permitting phase. For those trees that are recommended for retention, mitigation measures are provided to reduce the impact during construction. It should be noted that the construction phase includes all site works that could impact trees, from the capping of services at the beginning to the final landscaping steps at the end.



Methodology

The following materials were reviewed as part of this report:

- Survey
- Site Plan
- GeoOttawa tree inventory layer and aerial photography
- Google© Street View imagery – various years

A site visit was conducted to collect the following information from each tree classified as protected under the City of Ottawa’s Tree Protection By-law No. 2020-340:

- Diameter at breast height (1.3 m from grade)
- Species
- Tree health
- Relevant measurements such as distance to the existing structures like fences, driveways, etc

Tree Information:

The following is an inventory of all trees that are protected under City of Ottawa Tree Protection (By-law No. 2020-340) on the site and adjacent City property. This includes Distinctive Trees (private trees with a diameter at breast height (dbh) of 30 cm or greater) and city-owned trees of all sizes. It also includes Distinctive Trees on adjacent properties whose Critical Root Zone (CRZ) extend into the subject area. The CRZ is an area around the trunk with a radius equivalent to 10 times the diameter of the trunk. This does not take into account infrastructure such as buildings and asphalt and assumes the tree has no restrictions on root growth.

Tree ¹	Species	Diameter at breast height (cm)	Ownership ²	Condition	Action	Recommendations
1	Cottonwood (<i>Populus deltoides</i>)	52, 72	City	Good: some epicormic shoots; 2 small wounds (<1/8 diameter) with decay	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
2	Cottonwood (<i>Populus deltoides</i>)	59	City	Good	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
3	Manitoba maple (<i>Acer negundo</i>)	21, 23, 25	City	Fair: Largest stem lost half of crown	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
4	Manitoba maple (<i>Acer negundo</i>)	36	Subject property	Poor: trunk hollow due to decay; significant lean	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).



5	Manitoba maple (<i>Acer negundo</i>)	68	Boundary - NCC	Fair: trunk straightens from lean; growing on fence (fence may be supporting tree); 2 large broken branches	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
6	Manitoba maple (<i>Acer negundo</i>)	57	NCC	Fair: significant lean; dead branch >1/4 diameter	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
7	Manitoba maple (<i>Acer negundo</i>)	48	NCC	Poor: decay throughout trunk; fungal bodies present	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
8	Manitoba maple (<i>Acer negundo</i>)	37	NCC	Fair/Poor: large branch broken - 1/2 crown on ground; cavity >1/4 diameter – no decay visible	Retain	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
9	Silver maple (<i>Acer saccharinum</i>)	34, 41	Subject property	Good/Fair: included bark @ main union	Retain	Parking area to be built with Abweb TRP system. No surface material is to be in contact with tree trunk. Care is to be taken to not damage trunk or branches during installation.

¹ Please refer to the attached Tree Information map for tree numbers. Note that this includes a tree layer added to the site plan (in pdf format) provided by the client. This layer includes only information about the trees and the original site plan is not altered in this process.

²Ownership of the tree in this report is based on the information provided and should not be used as a determination of ownership. For ownership disputes, a survey should be relied on. For boundary trees, consent from the adjacent property owner is required for removal as part of the application.

Proposed development and Tree Protection

Tree 1 and 2 are large Eastern cottonwoods (*Populus deltoides*) that are nearing the pinnacle of their growth. Retention of these trees will be difficult due to intensification on site. Excavation is expected to come no closer than 2.5m from the trees, and on one side only. Due to the available rooting space to the north and south of these trees, it is expected they will endure construction. During building permitting phase, if services are to be installed through the CRZ of Tree 1, its available rooting space will be reduced and reassessment will be required.

Trees 3-8 are Manitoba maples (*Acer negundo*) that have likely self-seeded along the property line many years ago. Most of these trees are not in good health but allowing them to remain in place during and after construction will continue to provide canopy to the neighbourhood and habitat for local fauna.



What is more, they will provide shielding for the new property after construction and visual screening from construction from the public pathway to the south. There is a chain link fence separating most of the trees from the construction area, but fencing should be erected as described below to protect the rooting zones that extend into the subject property.

Tree 9 is an established silver maple (*Acer saccharinum*). The proposed parking area beside the tree is to be built on a system to reduce the need for excavation and increase permeability of the hardscaping (see below). This should allow for reduced compaction in the soil and continued provision of water and nutrients to the tree roots. Until this system is to be installed, protective fencing as described below should be in place to prevent physical damage to the trunk and to reduce compaction in the rooting zone. During installation, if any roots are to be cut, this should be done cleanly by hand to promote faster sealing after construction. When the parking area installation is complete, there is to be no hardscaping touching the trunk of the tree, and as much separation as possible between the parking space and the trunk. If possible, installation of bollards or protective barriers on the side of the parking space may allow for more trunk protection in the long term.

Update for version 2.0: Abweb TRP is to be used to install the parking area around Tree 9. This system is designed to reduce or eliminate the need for excavation by laying a matrix of cells which hold fill without the need for compaction. The area is topped with a permeable surface, allowing water to reach the roots. More detailed information is available at the company's website: <https://abgeosynthetics.com/products/geocells/abweb-trp-tree-root-protection/>

Tree Protection

Prior to any site works, protective fencing should be installed around the trees as indicated in the attached Tree Information Map and maintained until all construction on site has been completed as per the **City of Ottawa Tree Protection Specifications (March 2021)**. Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the root system, trunk, or branches of any tree
- Direct the exhaust away from the tree

The tree protection fencing must be 1.2 m in height and constructed of a rigid or framed material (e.g. modulus – steel, plywood hoarding, or snow fence on a 2"X4" wood frame) with posts 2.4 m apart such that the fence location cannot be altered. All supports must be placed outside of the CRZ and installation must minimize damage to existing roots.



If the fenced tree protection area must be reduced to facilitate construction, *one* of the following mitigation measures should be applied:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- Apply $\frac{3}{4}$ (2 cm) inch plywood, or road mats over a 4+ inch (10 cm) thick layer of the wood chip mulch
- Apply 4-6 inches (10 to 15 cm) of gravel over a taut, staked, geotextile fabric

The undersigned personally inspected the property and issues associated with this report on May 24, 2023. On Behalf of Dendron Forestry Services,



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From left to right: Tree 1-3



Above: broken branch on Tree 3.

Right: Broken top of Tree 8. Tree 7 at left of image.





ASSUMPTIONS AND LIMITING CONDITIONS

Intended Use of the Report

This Report was prepared by Dendron Forestry Services (hereafter “Dendron”) at the request of the Client. The results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report are to be used solely for the purposes outlined within this Report. All other uses are impermissible and unintended, unless specifically stated in writing in the Report.

Intended User of the Report

This Report was prepared by Dendron for the exclusive use of the Client and may not be used or relied upon by any other party. All other users are unintended and unauthorized, unless specifically stated in writing in the Report.

Limitations of this Report

This Report is based on the circumstances and on-site conditions as they existed at the time of the site inspection and the information provided by the Client and/or third parties to Dendron. On-site conditions may limit the extent of the on-site inspection(s) conducted by Dendron, including weather events such as rain, flooding, storms, winds, tornados, snowfall, snow cover, hail; obstructions including fencing, dwellings, buildings, sheds, plants, and animals; lack of access to the entire perimeter of the tree due to adjacent properties; the shape of the tree; and accessibility of the tree crown, branches, trunk, or roots for examination.

In the event that information provided by the Client or any third parties, including but not limited to documents, records, site and grading plans, permits, or representations or any site conditions are updated or change following the completion of this Report, this Report is no longer current and valid and cannot be relied upon for the purpose for which it was prepared. Dendron and its agents, assessors, and/or employees are not liable for any damages, injuries, or losses arising from amendments, revisions, or changes to the documents, records, site and grading plans, permits, representations, or other information upon which Dendron relied in preparing this Report.

No assessment of any other trees or plants has been undertaken by Dendron. Dendron and its agents, assessors, and/or employees are not liable for any other trees or plants on or around the subject Property except those expressly identified herein. The results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report apply only to the trees identified herein.

Trees and plants are living organisms and subject to change, damage, and disease, and the results, observations, interpretations, analysis, recommendations, and conclusions as set out in this Report are valid only as at the date any inspections, observations, tests, and analysis took place. No guarantee, warranty, representation, or opinion is offered or made by Dendron as to the length of the validity of the results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report. As a result the Client shall only rely upon this Report as representing the results, observations, interpretations, analysis, recommendations, and conclusions that were made as at the date of such inspections, observations, tests, and analysis. The trees discussed in this Report should be re-assessed periodically and at least within one year of the date of this Report.

No Opinion regarding ownership of the Tree

This Report was not prepared to make a determination as to ownership of the subject tree(s). Where ownership of the subject tree(s) is identified within this Report, said identification is based on the information provided by the Client and third parties, including surveys, permits, and site and grading plans and may not be relied upon as a guarantee, warranty, or representation of ownership.

Assumptions

This Report is based on the circumstances and conditions as they existed at the time of the site inspection and the information provided by the Client and/or third parties to Dendron. Where documents, records, site and grading plans, permits, representations, and any other information was provided to Dendron for the purpose of preparing this Report, Dendron assumed that said information was correct and up-to-date and prepared this Report in reliance on that information. Dendron and its agents, assessors, and/or employees, are not responsible for the veracity or accuracy of such information. Dendron and its agents, assessors, or employees are not liable for any damages, injuries, or losses arising from inaccuracies, errors, and/or omissions in the documents, records, site and grading plans, permits, representations, or other information upon which Dendron relied in preparing this Report.

For the purpose of preparing this Report, Dendron and its agents, assessors, and/or employees assumed that the property which is the subject of this Report is in full compliance with all applicable federal, provincial, municipal, and local statutes, regulations, by-laws, guidelines, and other related laws. Dendron and its agents, assessors, and/or employees are not liable for any issues with respect to non-compliance with any of the above-referenced statutes, regulations, bylaws, guidelines, and laws as it may pertain to or affect the property to which this Report applies.

For the purpose of preparing this Report, Dendron and its agents, assessors, and/or employee assumed that there are no hidden or unapparent conditions affecting the results, observations, interpretations, analysis, recommendations, and conclusions contained within this Report.

No Publication

The Client acknowledges and agrees that all intellectual property rights and title, including without limitation, all copyright in this Report shall remain solely with Dendron Forestry. Possession of this Report, or a copy thereof, does not entitle the Client or any third party to the right of publication or reproduction of the Report for any purpose save and except where Dendron has given its prior written consent.

Neither all nor any part of the contents of this Report shall be disseminated to the public through advertising, public relations, news, sales, the internet or other media (including, without limitation, television, radio, print or electronic media) without the prior written consent of Dendron Forestry.



Implementing the Report Recommendations

Dendron and its agents, assessors, and/or employees accept no responsibility for the implementation of any part of this Report unless specifically requested to provide oversight on the implementation of the recommendations. In the event that inspection or supervision of all or part of the implementation of the within recommendations is requested, that request shall be in writing and the details agreed to in writing by both parties.

Dendron and its agents, assessors, and/or employees are not liable for any damages or injuries arising from the manner in which the recommendations in this Report are implemented, including failure to, incorrect, or negligent implementation of the recommendations.

Further Services

Neither Dendron nor any assessor employed or retained by Dendron for the purpose of preparing or assisting in the preparation of this Report shall be required to provide any further consultation or services to the Client, save and except as already carried out in the preparation of this Report and including, without limitation, to act as an expert witness or witness in any court in any jurisdiction unless the Client has first made specific arrangements with respect to such further services, including, without limitation, providing the payment of the Report's regular hourly billing fees.

Limits of Liability

In carrying out this Report, Dendron and its agents, assessors, and/or employees have exercised a reasonable standard of care, skill, and diligence as would be customarily and normally provided in carrying out this Report. While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or all parts of them will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Without limiting the foregoing, no liability is assumed by Dendron for:

- a) any legal description provided with respect to the Property;
- b) issues of title and or ownership respect to the Property;
- c) the accuracy of the Property line locations or boundaries with respect to the Property; and
- d) the accuracy of any other information provided to Dendron by the Client or third parties;
- e) 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
- f) the unauthorized distribution of the Report.

The total monetary amount of all claims or causes of action the Client may have as against Dendron Forestry, including but not limited to claims for negligence, negligent misrepresentation, and breach of contract, shall be strictly limited solely to the total amount of fees paid by the Client to Dendron Forestry pursuant to the Contract for Services dated May 15, 2023, for which this Assessment was carried out.

Further, under no circumstance may any claims be initiated or commenced by the Client against Dendron or any of its directors, officers, employees, contractors, agents, assessors, or Assessors, in contract or in tort, more than 12 months after the date of this Report.

No Third Party Liability

This Report was prepared by Dendron exclusively for the Client for the purpose set out in the Report. Any use which a third party makes of this Report, or any reliance on or decisions a third party may make based upon this Report, are made at the sole risk of any such third parties. Dendron Forestry accepts no responsibility for any damages or loss suffered by any third party or by the Client as a result of decisions made or actions based upon the unauthorized use or reliance of this Report by any such party.

General

Any plans and/or illustrations in this Report are included only to help the Client visualize the issues in this Report and shall not be relied upon for any other purpose. This report is best viewed in colour. Any copies printed in black and white may make some details difficult to properly understand. Dendron accepts no liability for misunderstandings due to a black and white copy of the report.

Notwithstanding any of the above, nothing in this Report is taken to absolve the Client of the responsibility of obtaining a new Report in the event that the circumstances of the tree change.



Tree Protection Area (TPA)

Prior to any site works, protective fencing should be installed around the TPA as indicated in Map and maintained until all construction on site has been completed as per the City of Ottawa Tree Protection Specifications (March 2021). **Failure to install and maintain the indicated fencing may result in fines from the City.**

Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the root system, trunk, or branches of any tree
- Direct the exhaust away from the tree

The tree protection fencing must be 1.2 m in height and constructed of a rigid or framed material (e.g. modulus – steel, plywood hoarding, or snow fence on a 2”X4” wood frame) with posts 2.4 m apart such that the fence location cannot be altered. All supports must be placed outside of the CRZ and installation must minimize damage to existing roots.

If the fenced tree protection area must be reduced to facilitate construction, *one* of the following mitigation measures should be applied:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- Apply ¾ (2 cm) inch plywood, or road mats over a 4+ inch (10 cm) thick layer of the wood chip mulch
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Tree ¹	Species	DBH (cm)	Condition	Recommendations
1	Cottonwood (<i>Populus deltoides</i>)	52, 72	Good: some epicormic shoots; 2 small wounds (<1/8 diameter) with decay	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
2	Cottonwood (<i>Populus deltoides</i>)	59	Good	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
3	Manitoba maple (<i>Acer negundo</i>)	21, 23, 25	Fair: Largest stem lost half of crown	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
4	Manitoba maple (<i>Acer negundo</i>)	36	Poor: trunk hollow due to decay; significant lean	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
5	Manitoba maple (<i>Acer negundo</i>)	68	Fair: trunk straightens from lean; growing on fence (fence may be supporting tree); 2 large broken branches	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
6	Manitoba maple (<i>Acer negundo</i>)	57	Fair: significant lean; dead branch >1/4 diameter	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
7	Manitoba maple (<i>Acer negundo</i>)	48	Poor: decay throughout trunk; fungal bodies present	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
8	Manitoba maple (<i>Acer negundo</i>)	37	Fair/Poor: large branch broken - 1/2 crown on ground; cavity >1/4 diameter – no decay visible	Retain and protect as per the City of Ottawa Tree Protection Specifications (March 2021).
9	Silver maple (<i>Acer saccharinum</i>)	34, 41	Good/Fair: included bark @ main union	Parking area to be built with Abweb TRP system. No surface material is to be in contact with tree trunk. Care is to be taken to not damage trunk or branches during installation.

Legend

- Critical Root Zone
- Tree to be removed
- Tree Protection Area
- Private Tree
- Tree either fully or partly on city property
- Tree either fully or partly on NCC property

Note: the tree layer has been added to the original site plan supplied by the client in pdf format. This layer refers to the trees only, and the original site plan has not been altered in the process. Refer to the original plan for details as quality is lost when importing the plan into the mapping software used to create the tree layer.

