



**Dendron Forestry Services**

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## Tree Information Report

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

**Address:** 481 Wentworth Avenue  
**Date of Report:** March 3, 2023  
**Date of Site Visit:** March 1, 2023  
**Prepared by:** Astrid Nielsen, RPF, ISA Certified Arborist®  
131 Smirle Ave, Ottawa, K1Y 0S4  
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Committee of Adjustment  
Received | Reçu le

**2023-04-25**

City of Ottawa | Ville d'Ottawa  
Comité de dérogation

**Client:** Saeideh Shabani, [eideh.shabani@hallmarkottawa.com](mailto:eideh.shabani@hallmarkottawa.com)

**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 Farley, Smith & Denis Surveying Ltd., dated November 2, 2022
- Site plan by Miroca Design Inc., March 3, 2023

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 <sup>1</sup>	Species	Diameter at breast height (cm)	Ownership <sup>2,3</sup>	Condition	Action	Recommendations
1	White oak ( <i>Quercus alba</i> )	67	City	Good/Fair: many epicormic shoots; pruned around hydro	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
2	Red pine ( <i>Pinus resinosa</i> )	32	Boundary – 485 Wentworth	Fair: some dieback in canopy; insect holes in stem, high crown	Retain	Retain: certified arborist to explore root structure and tree stability before and after excavation and determine suitability for retention
3	Norway maple ( <i>Acer platanoides</i> )	51	Boundary – 485 Wentworth	Poor: large canker severely reducing stem width and structural integrity; split in stem to base; lean towards subject property.	Remove	Remove prior to demolition due to poor health and safety concerns. <b>Tree permit and approval from adjacent property owner required</b>
4	Norway maple ( <i>Acer platanoides</i> )	51	Adjacent – 485 Wentworth	Fair: large split in stem; stub of large broken branch	Retain	Retain: explore root structure with air spade – certified arborist to assess suitability for retention



						and make final determination on inspection after excavation
5	Red pine ( <i>Pinus resinosa</i> )	31	Adjacent – 485 Wentworth	Poor: extremely thin crown	Retain	Retain: explore root structure with air spade – certified arborist to assess suitability for retention and make final determination on inspection after excavation
6	White spruce ( <i>Picea glauca</i> )	37	Adjacent – 485 Wentworth	Fair: significant lean away from subject property	Retain	Retain: explore root structure with air spade – certified arborist to assess suitability for retention and make final determination on inspection after excavation
7	Red pine ( <i>Pinus resinosa</i> )	30	Adjacent – 485 Wentworth	Fair/Poor: very thin crown	Retain	Retain: explore root structure with air spade – certified arborist to assess suitability for retention and make final determination on inspection after excavation
8	Red pine ( <i>Pinus resinosa</i> )	30 (estimate)	Adjacent – 485 Wentworth	Fair: thin crown	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
9	White spruce ( <i>Picea glauca</i> )	30 (estimate)	Adjacent – 485 Wentworth	Fair: lean; crowded	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
10	Red pine ( <i>Pinus resinosa</i> )	33	Adjacent – 485 Wentworth	Good/Fair	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
11	Norway maple ( <i>Acer platanoides</i> )	Multi-stem: 33, 34, 20	Boundary – 485 Wentworth	Fair: canker on small stem; lean towards subject property; growing around fence at base	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
12	Apple ( <i>Malus spp.</i> )	26 (not protected under by- law)	Private	Fair: poor form; debarking on main branch	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
13	Apple ( <i>Malus spp.</i> )	17 (not protected under by- law)	Private	Good	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
14	Norway maple ( <i>Acer platanoides</i> )	36	Adjacent – 475 Wentworth	Fair/Poor: large scar running length of bole; some deadwood in crown	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
15	Norway maple ( <i>Acer platanoides</i> )	40 (estimate)	Adjacent – 475 Wentworth	Fair/Good	Retain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)

<sup>1</sup> 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.



<sup>2</sup>Ownership 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.

<sup>3</sup>Trees on adjacent properties do not include a full assessment. The diameters are estimated, and the health is estimated based on what is visible from the subject property. Trees along the property line may also have limited health assessments if part of the tree is not visible.

### **Proposed development and conserved vegetation**

**Tree 3** is a large Norway maple that leans over the subject property. It is badly infected with a canker, and it has a large vertical crack extending the length of the trunk. The structural integrity of the tree is compromised such that, for safety reasons, removal is recommended prior to any site works.

Excavation is planned to come very close to the trunks of **Trees 2, 4, 5, 6 and 7**: a minimum distance of 1.5 - 3x the DBH is best practice (ISA BMPs on Root Management, 2017), and excavation is near or past this line for most of these trees.. However, all these trees are situated at a slightly higher grade (approx. 35cm according to the survey), and it is unclear what roots may have developed on the side of the subject property. Removal may be avoided by exploring the root development using an air spade: if few or no stabilizing roots are found, the trees may have enough support to be retained. A certified arborist should confirm stability both before and after excavation and make a final determination regarding retainability. The possibility of removal should be discussed with the adjacent property owner at 485 Wentworth prior to any root exploration.

While they are not protected under By-law 2020-340, it is recommended that **Trees 12 and 13** be retained and protected to provide for mature canopy on site after construction.

### **Mitigation Measures**

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 March 1, 2023. On Behalf of Dendron Forestry Services,



Astrid Nielsen, MFC, RPF (Registered Professional Forester)  
ISA Certified Arborist®, ON-1976  
ISA Tree Risk Assessment Qualified  
Principal, Dendron Forestry Services  
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*Figure 1 - Tree 1: City oak to be retained & Tree 2: boundary red pine*



*Figure 2 (above) - Trees 3 and 4: adjacent Norway maples. (Right) - large canker and crack on Tree 3*



*Figure 4 (from Left to Right) - Trees 10, 9, 8, and 7*



*Figure 3 (from Left to Right) - Trees 6 and 5*





*Figure 5 - Trees 14 and 15 - adjacent Norway maples to be retained*



## 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 November 21, 2022, 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)**

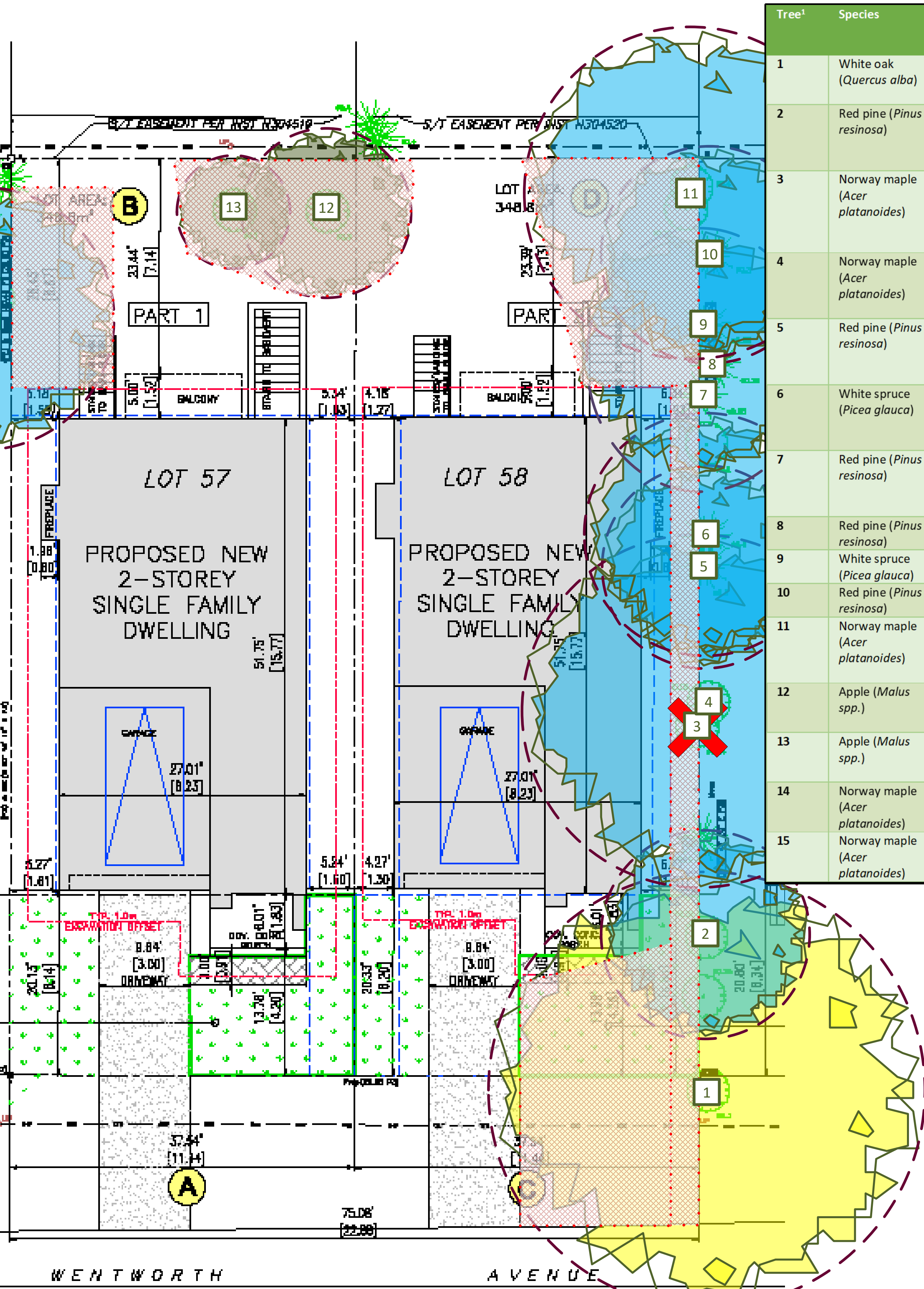
Prior to any site works, protective fencing should be installed around the TPA as indicated in Map and maintained until all construction on site has been completed as per the **City of Ottawa Tree Protection Specifications (March 2021)**. Within the fenced area, the following tree protection guidelines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

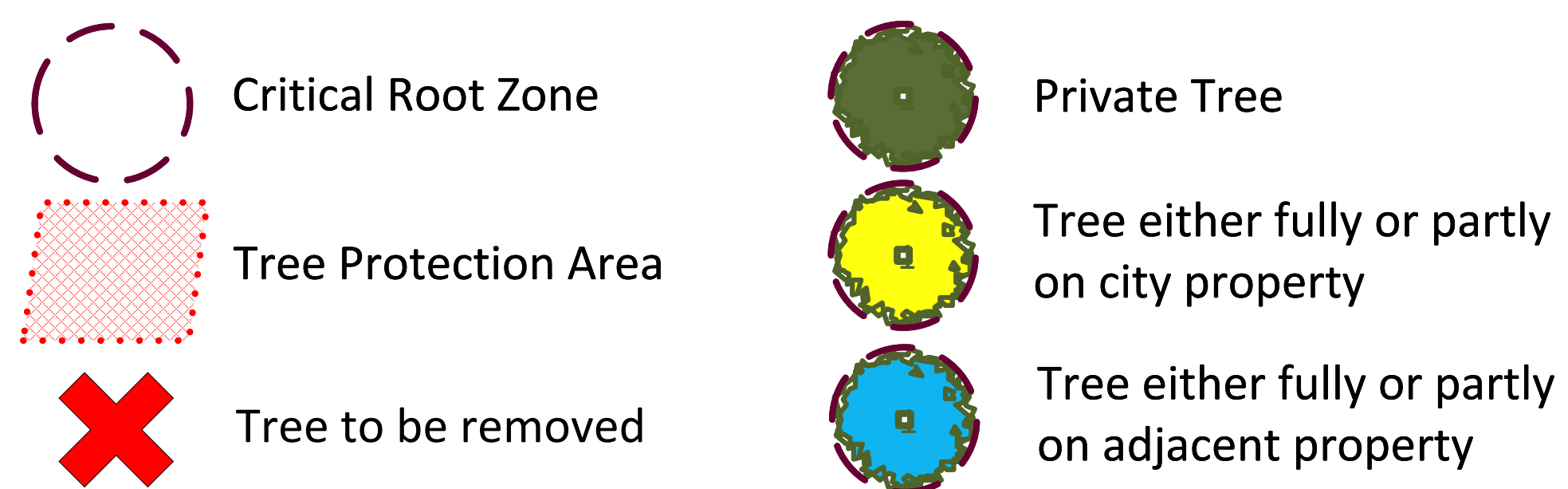
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- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
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- Apply 4-6 inches (10 to 15 cm) of gravel over a taut, staked, geotextile fabric

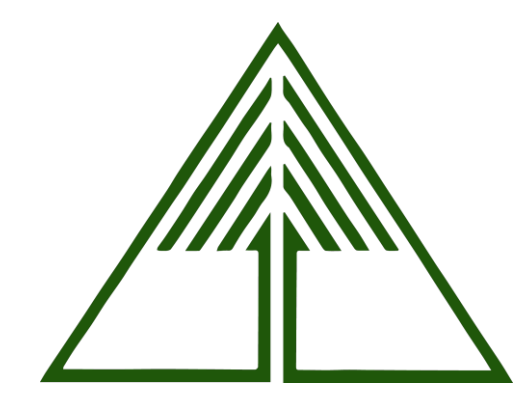


Tree <sup>1</sup>	Species	Diameter at breast height (cm)	Ownership <sup>2,3</sup>	Condition	Recommendations
1	White oak ( <i>Quercus alba</i> )	67	City	Good/Fair: many epicormic shoots; pruned around hydro	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
2	Red pine ( <i>Pinus resinosa</i> )	32	Boundary – 485 Wentworth	Fair: some dieback in canopy; insect holes in stem, high crown	Retain: certified arborist to explore root structure and tree stability before and after excavation and determine suitability for retention
3	Norway maple ( <i>Acer platanoides</i> )	51	Boundary – 485 Wentworth	Poor: large canker severely reducing stem width and structural integrity; split in stem to base; lean towards subject property.	Remove prior to demolition due to poor health and safety concerns. <b>Tree permit and approval from adjacent property owner required</b>
4	Norway maple ( <i>Acer platanoides</i> )	51	Adjacent – 485 Wentworth	Fair: large split in stem; stub of large broken branch	Retain: explore root structure with air spade – certified arborist to assess suitability for retention and make final determination on inspection after excavation
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**PROPOSED SITE PLAN**  
1:150



Note that 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.



Tree Information Report – 481 Wentworth Avenue  
Tree layer prepared by Dendron Forestry Services  
Draft, March 2, 2023  
For more information, please contact [info@dendronforestry.ca](mailto:info@dendronforestry.ca)