



Dendron Forestry Services

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Tree Information Report v3.0

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

Address: 1353 McMahon
Date of Report: March 7, 2023
Date of Site Visit: November 9 and 11, 2022
Prepared by: Kevin Myers, ISA Certified Arborist®
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Committee of Adjustment
Received | Reçu le
Revised | Modifié le : 2023-03-22
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

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:

- Topographic survey prepared by Farley, Smith & Denis Surveying Inc, dated October 5, 2022
- Plan 4R prepared by Farley, Smith & Denis Surveying Inc with as-of-right buildable area added
- Site plan by Miroca Design Inc., dated 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:

- Topographic 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

Tree Inventory

Most of the trees on the property are a plantation of approximately 50-year-old Norway spruce (*Picea abies*) with red pine (*Pinus resinosa*) along the southern edge. A swale runs east-west along the northern part of the property and is dominated by mature red maples (*Acer rubrum*) with some white birch (*Betula papyrifera*).

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 ^{2,3}	Condition	Forester recommendations
1	Red pine (<i>Pinus resinosa</i>)	33	City	Fair; slight lean towards road, lost top	Remove due to conflict with new driveway
2	Manitoba maple (<i>Acer negundo</i>)	26	City	Fair; lean towards road	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
3	Red pine (<i>Pinus resinosa</i>)	36	City	Fair; 2 codominant stems and spiral grain	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)



4	Manitoba maple (<i>Acer negundo</i>)	24	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
5	Manitoba maple (<i>Acer negundo</i>)	25	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
6	Red pine (<i>Pinus resinosa</i>)	34	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
7	Red pine (<i>Pinus resinosa</i>)	30	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
8	Red pine (<i>Pinus resinosa</i>)	24	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
9	Red pine (<i>Pinus resinosa</i>)	33	City	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
10	Red pine (<i>Pinus resinosa</i>)	31	City	Good/fair	Remove due to conflict with new driveway
11	Red pine (<i>Pinus resinosa</i>)	26	City	Good	Remove due to conflict with new driveway
12	Red pine (<i>Pinus resinosa</i>)	44	City	Good	Remove due to conflict with new driveway
13	Norway spruce (<i>Picea Abies</i>)	36	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
14	Norway spruce (<i>Picea Abies</i>)	31	Private	Good	Remove : within excavation boundary of new home
15	Norway spruce (<i>Picea Abies</i>)	33	Private	Good	Remove due to conflict with new driveway
16	Norway spruce (<i>Picea Abies</i>)	36	Private	Good	Remove : within excavation boundary of new home
17	Norway spruce (<i>Picea Abies</i>)	34	Private	Good	Remove : within excavation boundary of new home
18	Norway spruce (<i>Picea Abies</i>)	44	Private	Good	Remove : within excavation boundary of new home
19	Norway spruce (<i>Picea Abies</i>)	31	Private	Good	Remove : within excavation boundary of new home
20	Norway spruce (<i>Picea Abies</i>)	36	Private	Good	Remove : within excavation boundary of new home
21	Norway spruce (<i>Picea Abies</i>)	33	Private	Good	Remove : within excavation boundary of new home
22	Norway spruce (<i>Picea Abies</i>)	40	Private	Good	Remove : within excavation boundary of new home



23	Norway spruce (<i>Picea Abies</i>)	42	Private	Good	Remove: within excavation boundary of new home
24	Norway spruce (<i>Picea Abies</i>)	51	Private	Good	Remove: within excavation boundary of new home
25	Norway spruce (<i>Picea Abies</i>)	47	Private	Good	Remove: within excavation boundary of new home
26	Norway spruce (<i>Picea Abies</i>)	36	Private	Good	Remove: within excavation boundary of new home
27	Norway spruce (<i>Picea Abies</i>)	31	Private	Good/fair; fork	Remove: within excavation boundary of new home
28	Norway spruce (<i>Picea Abies</i>)	52	Private	Good	Remove: within excavation boundary of new home
29	Norway spruce (<i>Picea Abies</i>)	44	Private	Good	Remove: within excavation boundary of new home
30	Norway spruce (<i>Picea Abies</i>)	34	Private	Good	Remove: within excavation boundary of new home
31	Norway spruce (<i>Picea Abies</i>)	32	Private	Good	Remove: within excavation boundary of new home
32	Red maple (<i>Acer rubrum</i>)	46	Private	Good; 2 codominant stems 24 cm each	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
33	Red maple (<i>Acer rubrum</i>)	32, 52	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
34	Red maple (<i>Acer rubrum</i>)	46	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
35	White birch (<i>Betula papyrifera</i>)	30	Private	Fair; heavy lean to south	Remove due to health, heavy lean, and proximity to excavation
36	Red maple (<i>Acer rubrum</i>)	59	Private	Good; edge of swale	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
37	White birch (<i>Betula papyrifera</i>)	32	Private	Poor; heavy lean and fissure on upper side of trunk	Remove due to health, heavy lean, and proximity to excavation
38	Red maple (<i>Acer rubrum</i>)	51	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
39	White birch (<i>Betula papyrifera</i>)	32	Private	Fair; heavy lean	Remove due to health, heavy lean, and proximity to excavation
40	Red maple (<i>Acer rubrum</i>)	30.5	Private	Good; high crown	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
41	Red maple (<i>Acer rubrum</i>)	41	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)



42	Red maple (<i>Acer rubrum</i>)	42	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
43	Red maple (<i>Acer rubrum</i>)	32, 40	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
44	Red maple (<i>Acer rubrum</i>)	34	Private	Good	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)

¹ Please refer to the attached Tree Information map for tree numbers. Note that this includes a tree layer added to the survey plan (in pdf format) provided by the client. This layer includes only information about the trees and the original survey 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.

³Trees 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 retention has been focused on retaining as many of the mature red maples along the swale at the rear of the properties as possible as well as some of the red pine and spruce at the front of the property. The proposed layouts for the driveways have been designed to minimize impact to the trees in the front by retaining a contiguous grouping. Trees retained in groups tend to have a higher chance of long-term survival as they are less prone to windthrow than individual trees.

The undersigned personally inspected the property and issues associated with this report on November 9 and 11, 2022. On Behalf of Dendron Forestry Services,



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 ISA Certified Arborist®, ON-1976
 ISA Tree Risk Assessment Qualified
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Figure 1: Manitoba maples and red pine in the southwestern corner (trees 1-5)



Figure 2: Red pine along the front property line, photo looking west



Figure 3: Red maples and white birch in the swale at the rear of the properties (standing on eastern edge looking west)



Figure 4: Swale with mature red maple (taken along western property line looking east)



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 2, 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.

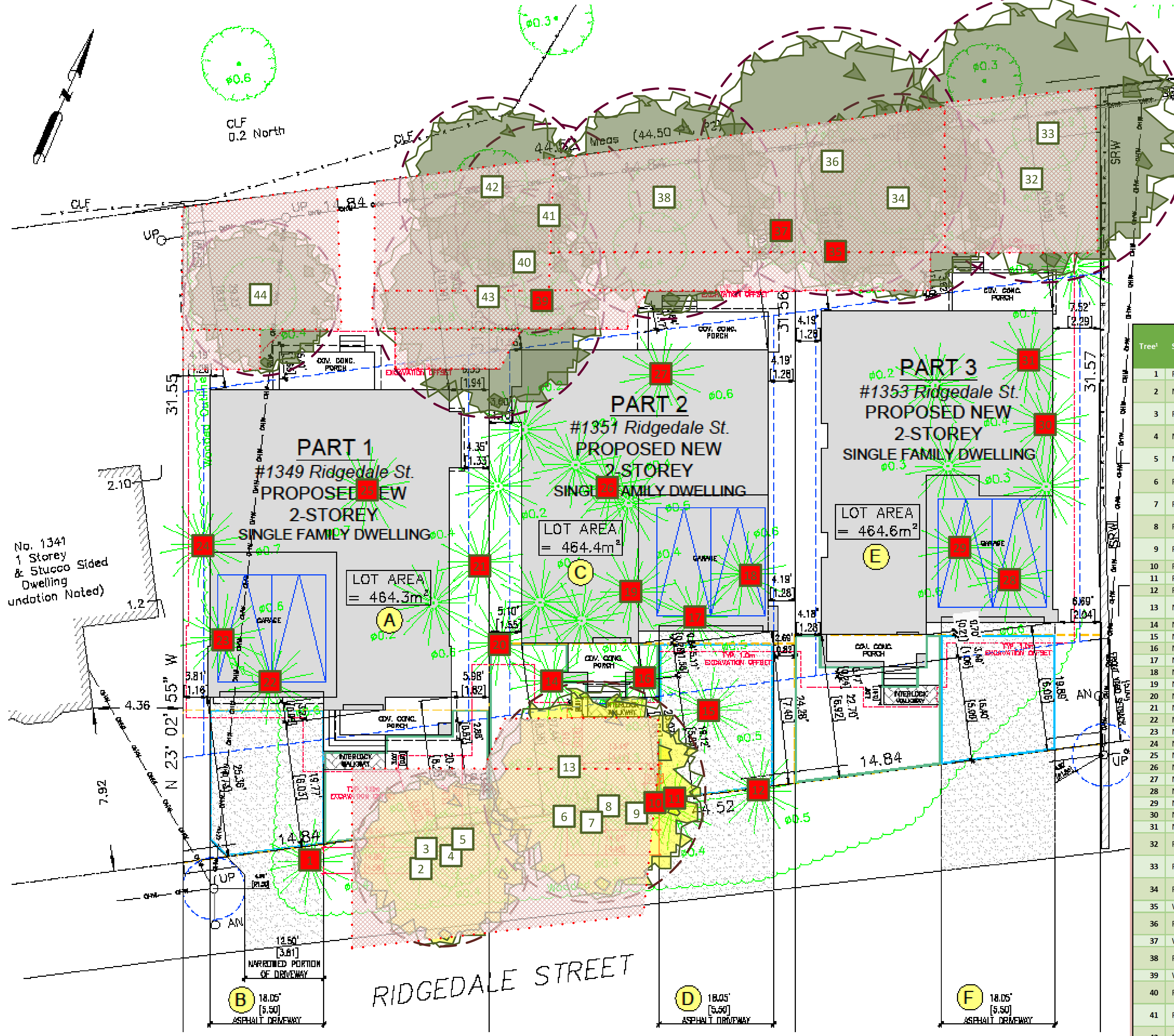
No Third Party Liability

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 on 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:

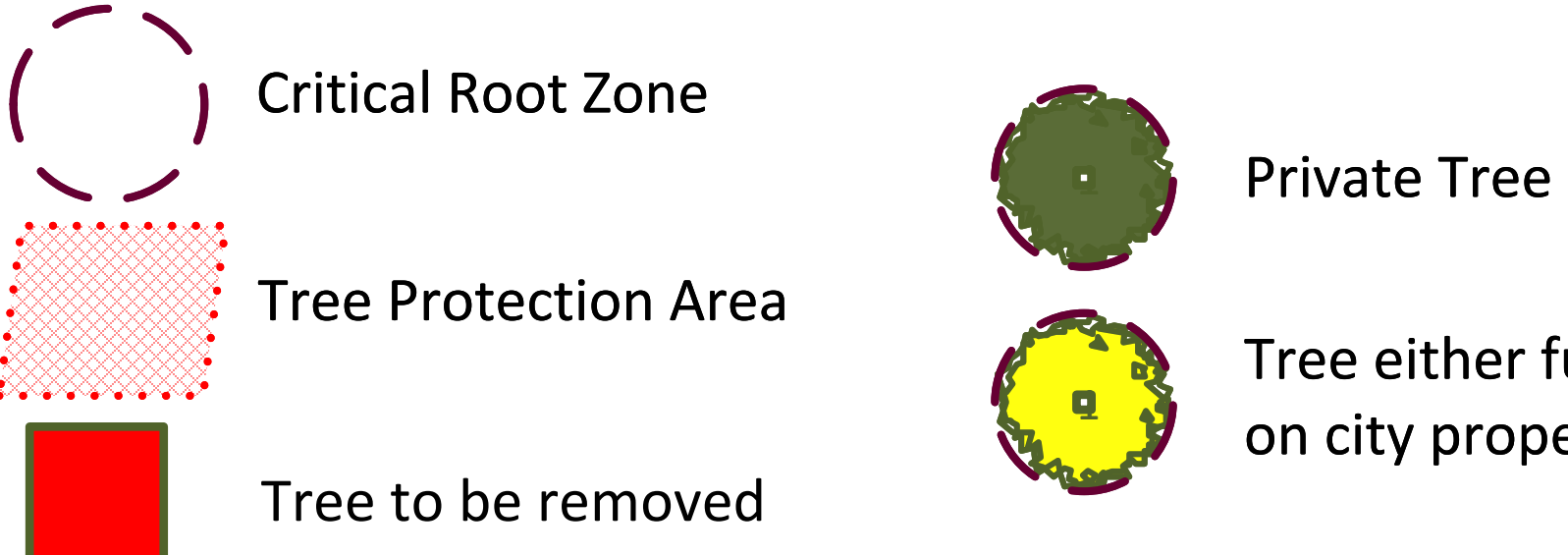
- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the 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.

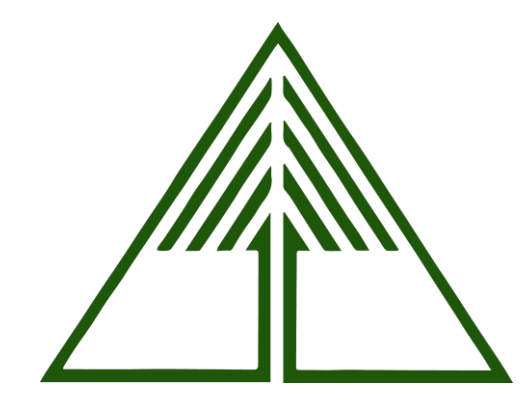
If the fenced tree protection area must be reduced to facilitate construction, one of the following mitigation measures should be applied:

- Place a layer of 6-12 inches (15 to 30 cm) of woodchip mulch to the area
- Apply ½ (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

Tree#	Species	Diameter at breast height (cm)	Forester recommendations
1	Red pine (<i>Pinus resinosa</i>)	33	Remove due to conflict with new driveway
2	Manitoba maple (<i>Acer negundo</i>)	26	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
3	Red pine (<i>Pinus resinosa</i>)	36	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
4	Manitoba maple (<i>Acer negundo</i>)	24	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
5	Manitoba maple (<i>Acer negundo</i>)	25	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
6	Red pine (<i>Pinus resinosa</i>)	34	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
7	Red pine (<i>Pinus resinosa</i>)	30	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
8	Red pine (<i>Pinus resinosa</i>)	24	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
9	Red pine (<i>Pinus resinosa</i>)	33	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
10	Red pine (<i>Pinus resinosa</i>)	31	Remove due to conflict with new driveway
11	Red pine (<i>Pinus resinosa</i>)	26	Remove due to conflict with new driveway
12	Red pine (<i>Pinus resinosa</i>)	44	Remove due to conflict with new driveway
13	Norway spruce (<i>Picea Abies</i>)	36	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021); services to be installed underneath driveway
14	Norway spruce (<i>Picea Abies</i>)	31	Remove: within excavation boundary of new home
15	Norway spruce (<i>Picea Abies</i>)	33	Remove due to conflict with new driveway
16	Norway spruce (<i>Picea Abies</i>)	36	Remove: within excavation boundary of new home
17	Norway spruce (<i>Picea Abies</i>)	34	Remove: within excavation boundary of new home
18	Norway spruce (<i>Picea Abies</i>)	44	Remove: within excavation boundary of new home
19	Norway spruce (<i>Picea Abies</i>)	31	Remove: within excavation boundary of new home
20	Norway spruce (<i>Picea Abies</i>)	36	Remove: within excavation boundary of new home
21	Norway spruce (<i>Picea Abies</i>)	33	Remove: within excavation boundary of new home
22	Norway spruce (<i>Picea Abies</i>)	40	Remove: within excavation boundary of new home
23	Norway spruce (<i>Picea Abies</i>)	42	Remove: within excavation boundary of new home
24	Norway spruce (<i>Picea Abies</i>)	51	Remove: within excavation boundary of new home
25	Norway spruce (<i>Picea Abies</i>)	47	Remove: within excavation boundary of new home
26	Norway spruce (<i>Picea Abies</i>)	36	Remove: within excavation boundary of new home
27	Norway spruce (<i>Picea Abies</i>)	31	Remove: within excavation boundary of new home
28	Norway spruce (<i>Picea Abies</i>)	52	Remove: within excavation boundary of new home
29	Norway spruce (<i>Picea Abies</i>)	44	Remove: within excavation boundary of new home
30	Norway spruce (<i>Picea Abies</i>)	34	Remove: within excavation boundary of new home
31	Norway spruce (<i>Picea Abies</i>)	32	Remove: within excavation boundary of new home
32	Red maple (<i>Acer rubrum</i>)	46	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
33	Red maple (<i>Acer rubrum</i>)	32, 52	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
34	Red maple (<i>Acer rubrum</i>)	46	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
35	White birch (<i>Betula papyrifera</i>)	30	Remove due to health, heavy lean, and proximity to excavation
36	Red maple (<i>Acer rubrum</i>)	59	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
37	White birch (<i>Betula papyrifera</i>)	32	Remove due to health, heavy lean, and proximity to excavation
38	Red maple (<i>Acer rubrum</i>)	51	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
39	White birch (<i>Betula papyrifera</i>)	32	Remove due to health, heavy lean, and proximity to excavation
40	Red maple (<i>Acer rubrum</i>)	30.5	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
41	Red maple (<i>Acer rubrum</i>)	41	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
42	Red maple (<i>Acer rubrum</i>)	42	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
43	Red maple (<i>Acer rubrum</i>)	32, 40	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)
44	Red maple (<i>Acer rubrum</i>)	34	Retain and protect as per City of Ottawa Tree Protection Specifications (March 2021)



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 – 1353 McMahon Avenue
 Tree layer prepared by Dendron Forestry Services
 Version 3.0, March 7, 2023
 For more information, please contact info@dendronforestry.ca

Replacement Tree Specifications

Tree 1, large tree at maturity, species suggestions include:

- Sugar maple (*Acer saccharum*)*
- Black maple (*Acer nigrum*)*
- Hackberry (*Celtis occidentalis*)*
- Katsura (*Cercidiphyllum japonicum*)
- Black walnut (*Juglans nigra*)* – has large nuts
- Black cherry (*Prunus serotina*)*
- White oak (*Quercus alba*)*
- Bur oak (*Quercus macrocarpa*)*
- English oak (*Quercus robur*)
- Red oak (*Quercus rubra*)*
- Basswood (*Tilia americana*)*
- Ginkgo (*Ginkgo biloba*)
- Kentucky coffeetree (*Gymnocladus dioica*) – has pods
- Liberty elm (*Ulmus americana* "Libertas")

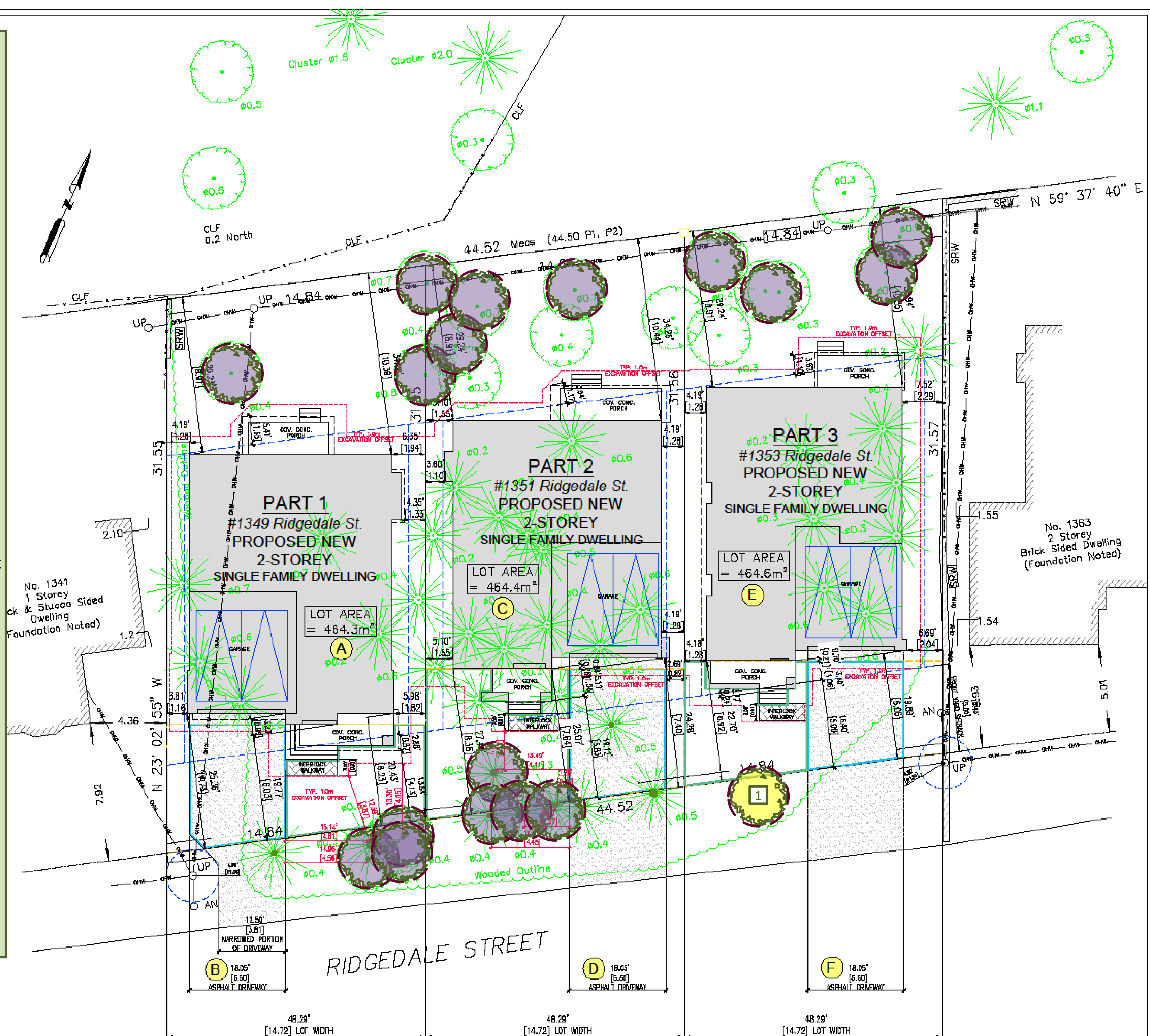
*Native to Ottawa region

Note: Proposed tree locations are suggestions only and should be finalized only once construction is complete and should adhere to City of Ottawa Tree Planting Guidelines

Note: Norway maple (*Acer platanoides*), a commonly planted species in Ottawa and sold at nurseries, is *not* recommended as it is highly invasive and not a suitable tree for urban planting due to its poor growth characteristics (weak unions, girdling roots), susceptibility to disease (e.g. tar spot) and its ability to outcompete other vegetation including grass.

All deciduous trees must be a minimum of 50 mm in diameter measured no less than 15 cm above ground level. Coniferous trees must be no less than 200 cm in height.

See attached City of Ottawa Tree Planting Specifications for Infill Properties for more details on planting requirements.



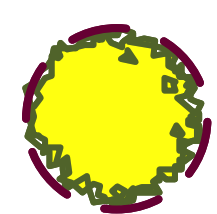
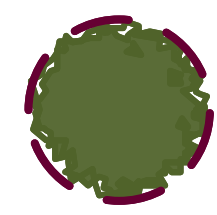
PART 1:
 FRONT YARD AREA = 93.9m²
 SOFT LANDSCAPING AREA = 38.3m²
 *40.8% of front yard area
 DRIVEWAY AREA = 37.2m²
 *39.6% of front yard area

PART 2:
 FRONT YARD AREA = 113.1m²
 SOFT LANDSCAPING AREA = 58.4m²
 *51.6% of front yard area
 DRIVEWAY AREA = 39.7m²
 *35.1% of front yard area

PART 3:
 FRONT YARD AREA = 91.2m²
 SOFT LANDSCAPING AREA = 37.9m²
 *41.6% of front yard area
 DRIVEWAY AREA = 32.2m²
 *35.4% of front yard area

LEGEND			
PROPOSED BUILDING		SOFT LANDSCAPING AREA	
DRIVEWAY		LINE OF REQUIRED SETBACK	
WALKWAY		OVERHEAD WIRES	
SOIL		EXISTING TO BE DEMOLISHED	
OTHER INTERLUMINANCE		EXCAVATION OFFSET	

SITE PLAN
 SCALE = 1:150



New Private Tree

New City Tree

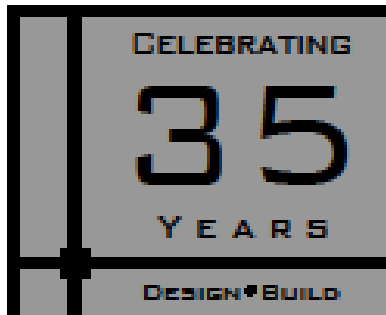
Note that the tree layer has been added to the original grading plan supplied by the client in pdf format. This layer refers to the trees only, and the original grading plan has not been altered in the process. Refer to the original plan for details on grading as quality is lost when importing the plan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



Tree Planting Plan – 1354 McMahon
 Tree layer prepared by Dendron Forestry Services
 Version 1.0, March 7, 2023
 For more information, please contact info@dendronforestry.ca



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GENERAL NOTES:

1. THE ORIGINAL CONTRACTOR SHALL OBTAIN AND VERIFY ALL EXISTING TREE INFORMATION AND REPORT TO THE CONSULTANT TO THE DEVELOPING.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL LOCAL, PROVINCIAL AND FEDERAL REGULATIONS AND BY-LAWS.
3. PROPOSED TREES FOR SOFT PLANTING SHALL BE PLANTED BY THE CONTRACTOR, WITHIN AN APPROVED AND CONTRACTED TO BE PLANTED, AND APPROVED BY SOIL CONSULTANT PRIOR TO PLANTING COMMENCEMENT.
4. DO NOT REMOVE THE EXISTING.

No.	Description & Date	Revisions
1	ADDED EXISTING TREE INFORMATION & REVISED DRIVEWAY LOCATIONS MARCH 3, 2023	

JOB TITLE:
 1354 MCMAHON AVENUE
 PART 1, 2 & 3
 (1349, 1351, & 1353 RIDGEDALE ST.)
 OTTAWA, ON.
 PROPOSED 2-STOREY
 SINGLE FAMILY DWELLINGS

SHEET TITLE:
 PROPOSED SITE PLAN
 KEY PLAN
 ZONING INFORMATION
 MINOR VARIANCES REQUESTED

SCALE: AS SHOWN
DWG. NO.:
 DRAWING: M.D.
 CHECKED:
 DATE: FEBRUARY 2023
 PRINT DATE:
S1.1



City of Ottawa Tree Planting Specifications for Infill Properties

Compensation planting locations and species must be approved by Forestry Services prior to planting, usually through submission of a Landscape Plan or showing new tree locations on the Tree Information Report. Large-growing, native species are preferred where space and conditions allow.

Any trees planted within the ROW are immediately protected under the Tree Protection by-law () and cannot be moved after planting.

Planning for planting in the ROW:

- o Determine how much open (soft) space is available in the planting location. A minimum of 9m² (1m depth) of good soil is recommended to support one tree. If there is insufficient space to plant in the ROW, planting on private property will be considered.
- o Note the locations and types of existing obstacles, above and below ground, using existing surveys plans, observations, and have utility locations marked by contacting www.on1call.com or 1.800.400.2255 (call before you dig). Use this information along with the setbacks listed below to determine a suitable planting location on the site, and the appropriate size of tree to plant.
- o If there are Hydro wires present over the property, consult Hydro Ottawa's tree planting guidelines: https://static.hydroottawa.com/documents/publications/safety/tree_planting_advice-EN.pdf.
- o If sensitive marine clay exists on the site, only small-growing, low-water demand species may be planted a minimum of 7.5m from the house.
- o Ensure no future conflicts with building projections, overhead or underground utilities that would pose future maintenance problems or impede full development of the canopy.
- o Tree species must be appropriate for the site (size, salt tolerance, etc). There are many resources available online to help select the right tree for your lot. Keep in mind that often native trees are best adapted to the local climate but less so for high salt conditions.
- o Planting must be done according to the specifications in Forestry Services' tree planting detail.
- o Trees must be watered regularly following planting to ensure proper establishment.
- o The City will assume maintenance responsibilities for trees planted in the ROW.

Key spacing (minimum distance) guidelines:

- 1m from utility boxes

For deciduous trees:

- Minimum 50mm caliper stock



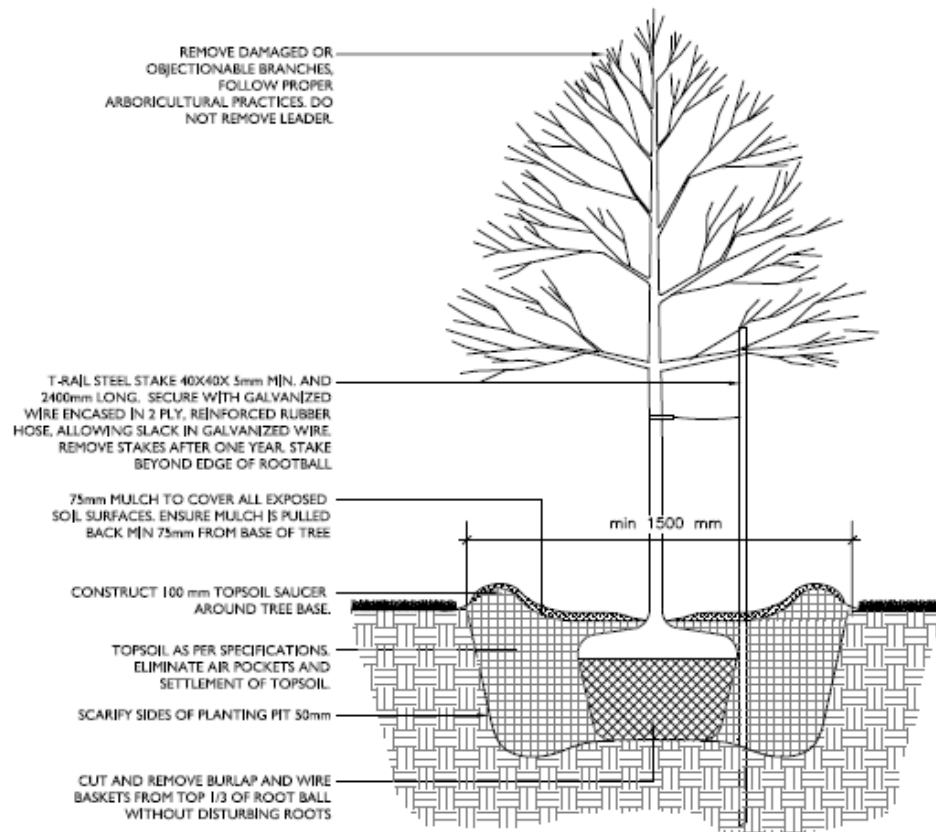
City of Ottawa Tree Planting Specifications for Infill Properties

- 1.5m from sidewalks, driveways, walkways, fences, sound walls, and old stumps.
- 2.5m from curbs, hydro transformers, or behind fire hydrants
- 4-7m from any part of an existing tree, depending on canopy width
- 10m from bus shelters and community mailboxes

For conifer (evergreen) trees:

Follow same setbacks as deciduous, but due to the widest branching being at the base of the tree, conifers need greater setbacks for ground-level obstacles.

- Minimum 200cm height stock
- 4.5m setbacks from sidewalks, walkways, driveways, and curbs.
- Do not plant on corners where sight lines will be compromised.



NOTES:

1. PROTECT TRUNK DURING TRANSPORT AND INSTALLATION. ALL WRAPPING TO BE REMOVED BEFORE FINAL INSPECTION;
2. ALL PROTECTIVE WRAPPING SHALL BE REMOVED AFTER INSTALLATION;
3. STAKING OF TREES SHALL BE PERFORMED ONLY IF DEEMED NECESSARY;
4. ALL DIMENSION IN MILLIMETERS UNLESS OTHERWISE NOTED.