



TREE CONSERVATION REPORT

6001-6005 Renaud Road

Tree Conservation Report submitted as Partial
Requirements for a Site Plan Control Application, June
12, 2023

Dendron Forestry Services



Dendron Forestry Services

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613.805.WOOD (9663)

info@dendronforestry.ca

Tree Conservation Report

Submitted as part of Site Plan Control Application

Address: 6001-6005 Renaud Road

Date of Report: June 12, 2023

Date of Site Visit: May 17, 2023

Prepared by: Astrid Nielsen, Registered Professional Forester
ISA Certified Arborist®, ON-1976
ISA Tree Risk Assessment Qualified
Principal, Dendron Forestry Services
Astrid.nielsen@dendronforestry.ca
(613) 805-9663 (WOOD)

Client: Landric Homes, c/o Eric Danis; ericdanis@constructionlaverendrye.com

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

Purpose of the Report

This Tree Conservation Report has been prepared for Eric Danis from Landric Homes, as partial requirements for the Site Plan Control Application submitted to the City of Ottawa. The objectives of this Tree Conservation Report are:

- To describe all trees with diameters over 10 cm on the site, recording their species, size, and current health condition. This includes trees on adjacent private property 10 cm or greater in diameter, with critical root zones that extend onto the subject property. It also includes city trees of all sizes that will be impacted by the proposed development.
- To evaluate the impact of the trees by the proposed development and what the recommended action is (retain and protect or remove)
- To provide recommendations on how to mitigate damage to retained trees during construction

Methodology

The following materials were reviewed as part of this report:

- Geotechnical Investigation by Paterson Group, dated April 23, 2021
- Grading plan by LRJ Engineering, dated April 2023
- Site plan by Rossmann Architecture, dated April 28, 2023
- Landscape plan by Ruhland & Associates, dated May 18, 2023
- GeoOttawa tree inventory layer and aerial photography
- Google© Street View imagery – various years



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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

Current Vegetation

The site is currently heavily treed, with several specimen trees dominating the canopy. Many of the trees are in lines of like species, suggesting purposeful planting, and not natural occurrence. While there is a lower area running through the centre of the property, there is no evidence of water flow and given the development to the north it is unlikely this low area would serve as a seasonal waterway.

There is a high occurrence of common buckthorn (*Rhamnus cathartica*) on the property.

Appendix A is an inventory of all trees that are protected under City of Ottawa Tree Protection (By-law No. 2020-340) on the site. This includes private trees with a diameter at breast height (dbh) of 10 cm or greater, and city-owned trees of all sizes. It also includes trees with a dbh of 10 cm or greater 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 it assumed the tree has no restrictions on root growth.

Appendix A also includes a map of the location of the inventoried trees.

Appendix B includes photos of selected inventoried trees.

Proposed Development and Conserved Vegetation

With the intensification on this site, tree preservation will be a challenge. One area has been identified as potential for retention (refer to Proposed Development and Conserved Vegetation Map):

Trees 9-20 are established red pines. **Tree 20** conflicts with the proposed driveway, but most of the remaining trees can likely be effectively preserved. **Tree 16** is only approximately 1.5m away from the proposed building, and therefore it is expected that the excavation would need to come very close to the trunk. It is for this reason that removal is recommended of Tree 16. For the remainder of the trees in this group (i.e. **Trees 9-15, 17-19**), fencing is to be erected as described below and excavation for the adjacent building should be reduced as much as possible to reduce impact to these trees.

Initially, options were explored to retain some of the trees at the centre of the property such as 40 and 41, but due to sensitive marine clay soils on the site and the City of Ottawa Tree Planting in Sensitive Marine Clay Soils (2017 Guidelines), these large trees are not retainable.



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Tree Protection and Mitigation

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 ¾ (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 Planting

Due to the presence of clay soils with low to medium sensitivity, planting of larger trees is not permitted according to the City of Ottawa Tree Planting in Sensitive Marine Clay Soils (2017 Guidelines). All efforts should be made to plant native species as this will help protect and enhance biodiversity in the Ottawa area.

Wildlife Impact

The development on this site is not expected to have serious impacts to wildlife.

Tree Clearing and Migratory Birds

Following the guidelines under the *Migratory Birds Convention Act, 1994*, removal of vegetation should be avoided during the nesting periods for migratory birds which extends from April 15 to as late as August 15th. If tree removal is required during this period, a nesting survey should be completed by a biologist within 5 days of tree removal to confirm that no nests are present.



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The undersigned personally inspected the property and issues associated with this report on May 17, 2023. On Behalf of Dendron Forestry Services,



Astrid Nielsen, MFC, RPF (Registered Professional Forester)
ISA Certified Arborist®, ON-1976



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613.805.WOOD (9663)

info@dendronforestry.ca

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.



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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 6, 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.



Appendix A – Tree Inventory

Tree ¹	Species	DBH (cm)	Ownership ^{2,3}	Condition	Action
1	Silver maple (<i>Acer saccharinum</i>)	80	Subject property (S.p.)	Fair: epicormic shoots	Remove
2	Crabapple (<i>Malus spp.</i>)	31	S.p.	Fair/Good: mechanical injury on trunk; sapsucker holes	Remove
3	Norway maple (<i>Acer platanoides</i>)	38	S.p.	Good/Fair: possible canker on trunk	Remove
4 ⁴	Scot's pine (<i>Pinus sylvestris</i>)	29	S.p.	Fair/Good: shaded by Tree 38	Remove
5 ⁴	Scot's pine (<i>Pinus sylvestris</i>)	21	S.p.	Fair: suppressed	Remove
6	Silver maple (<i>A. saccharinum</i>)	12, 14, 56	S.p.	Good/Fair: codominant stems; sprouts from trunk becoming stems	Remove
7	Eastern white cedar (<i>Thuja occidentalis</i>)	29	S.p.	Fair	Remove
8 ³	Silver maple (<i>A. saccharinum</i>)	23	S.p.	Good/Fair: codominant stems; slight lean	Remove
9	Red pine (<i>Pinus resinosa</i>)	21	S.p.	Fair: thin crown	Retain and protect; limit excavation for new home
10	Red pine (<i>P. resinosa</i>)	28	S.p.	Fair: thin crown	Retain and protect; limit excavation for new home
11	Red pine (<i>P. resinosa</i>)	15	S.p.	Fair: thin crown	Retain and protect; limit excavation for new home
12	Red pine (<i>P. resinosa</i>)	19	S.p.	Poor: thin crown; lean	Retain and protect; limit excavation for new home
13	Red pine (<i>P. resinosa</i>)	26	S.p.	Fair: thin crown	Retain and protect; limit excavation for new home
14	Red pine (<i>P. resinosa</i>)	31	S.p.	Fair: forked leader	Retain and protect; limit excavation for



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					new home
15	Red pine (<i>P. resinosa</i>)	24	S.p.	Fair	Retain and protect; limit excavation for new home
16	Red pine (<i>P. resinosa</i>)	30	S.p.	Fair	Remove
17	Red pine (<i>P. resinosa</i>)	17	S.p.	Fair	Retain and protect; limit excavation for new home
18	Red pine (<i>P. resinosa</i>)	13	S.p.	Fair: thin crown; lean	Retain and protect; limit excavation for new home
19	Red pine (<i>P. resinosa</i>)	14	S.p.	Fair: suppressed	Retain and protect; limit excavation for new home
20	Red pine (<i>P. resinosa</i>)	19	S.p.	Fair	Remove
21	White pine (<i>Pinus strobus</i>)	37	S.p.	Good	Remove
22	White pine (<i>P. strobus</i>)	36	City	Good/Fair: crooks	Remove
23	White pine (<i>P. strobus</i>)	31, 33	City	Fair: codominant stems; included bark	Remove
24	White pine (<i>P. strobus</i>)	33	City	Good	Remove
25	White pine (<i>P. strobus</i>)	42	City	Good	Remove
26	White pine (<i>P. strobus</i>)	45	City	Good	Remove
27	White pine (<i>P. strobus</i>)	42	City	Good	Remove
28	White pine (<i>P. strobus</i>)	24	City	Fair: suppressed	Remove
29	White pine (<i>P. strobus</i>)	22, 40, 23, 45	City	Fair: 4 stems divide at 1.2m	Remove
30	Norway maple (<i>A. platanooides</i>)	44	S.p.	Poor: canker on trunk and in crown; lean	Remove
31	Eastern white cedar (<i>Thuja occidentalis</i>)	29, 11, 16	S.p.	Fair: tridominant stems; heavy lean on smaller stem	Remove
32	Eastern white cedar (<i>T. occidentalis</i>)	6 stems 9-	S.p.	Good/Fair	



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		26cm			
33	Tree lilac (<i>Syringa reticulata</i>)	15, 7, 13, 19, 17	S.p.	Good/Fair	Remove
34	Mountain ash (<i>Sorbus spp.</i>)	21, 24	S.p.	Fair: wound on trunk; sapsucker holes	Remove
35	Norway maple (<i>A. platanooides</i>)	12, 14	S.p.	Fair: poor union – included bark	Remove
36	Scot's pine (<i>P. sylvestris</i>)	24, 20	S.p.	Poor: LCR <15%	Remove
37	Sugar maple (<i>Acer saccharum</i>)	55	S.p.	Fair: central leader is dead – has been replaced by side branches	Remove
38	Silver maple (<i>A. saccharinum</i>)	110	S.p.	Fair: codominant stems with very large bulge at union; broken branches	Remove
39	Silver maple (<i>A. saccharinum</i>)	91	S.p.	Fair/Good: tridominant stems; cavities with decay (one >1/4 diameter, one <1/8)	Remove
40	Silver maple (<i>A. saccharinum</i>)	83	S.p.	Fair: large limb broken and hanging; decay at base where large stem was removed	Remove
41	Silver maple (<i>A. saccharinum</i>)	27, 57, 60	S.p.	Fair: three stems – smallest fusing with largest; small cavity at base	Remove
42	Scot's pine (<i>P. sylvestris</i>)	35	S.p.	Fair: suppressed	Remove
43	Scot's pine (<i>P. sylvestris</i>)	32	S.p.	Fair/Poor: thin crown	Remove
44	Scot's pine (<i>P. sylvestris</i>)	35	S.p.	Fair/Good	Remove
45	Red pine (<i>P. resinosa</i>)	33	S.p.	Good/Fair: slight lean with possible girdling root	Remove
46	Scot's pine (<i>P. sylvestris</i>)	25	S.p.	Good	Remove
47 ³	Scot's pine (<i>P. sylvestris</i>)	23	S.p.	Fair: suppressed	Remove
48	Scot's pine (<i>P. sylvestris</i>)	33	S.p.	Fair: crooks	Remove
49	Scot's pine (<i>P. sylvestris</i>)	37	S.p.	Fair: sapsucker	Remove



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	<i>sylvestris</i>)				
50	Silver maple (<i>A. saccharinum</i>)	67, 84	S.p.	Fair/Poor: main union has large crack with cavity – smaller stem has heavy lean; larger stem has cavity approx. 1/2 diameter	Remove
51	Silver maple (<i>A. saccharinum</i>)	94	S.p.	Fair/Good: decay in large wound in crown	Remove
52	Trembling aspen (<i>Populus tremuloides</i>)	7 stems 8-14cm	S.p.	Fair: growing on fence	Remove
53	Norway spruce (<i>Picea abies</i>)	5 trees average 40cm	S.p.	Good	Remove
54	Silver maple (<i>A. saccharinum</i>)	57	S.p.	Fair: heavy lean into subject property	Remove
55	Manitoba maple (<i>A. negundo</i>)	15	S.p.	Fair: lean	Remove
56	Manitoba maple (<i>A. negundo</i>)	18	Boundary	Fair: lean	Remove
57	Manitoba maple (<i>A. negundo</i>)	27	Boundary	Fair: lean	Remove
58	Manitoba maple (<i>A. negundo</i>)	20	Boundary	Fair: lean	Remove
59	Scot's pine (<i>P. sylvestris</i>)	22, 30	S.p.	Fair: sapsucker	Remove
60	Basswood (<i>Tilia americana</i>)	52	S.p.	Fair: hollow trunk with sprouts	Remove
61	Scot's pine (<i>P. sylvestris</i>)	42	S.p.	Fair/Good	Remove
62	Scot's pine (<i>P. sylvestris</i>)	33	S.p.	Fair	Remove
63	Silver maple (<i>A. saccharinum</i>)	8 stems 6-23cm	S.p.	Fair: growing as clump	Remove
64	Bur oak (<i>Quercus macrocarpa</i>)	9	S.p.	Good	Remove
65	Scot's pine (<i>P. sylvestris</i>)	26	S.p.	Fair: lean and crooks	Remove
66	Red pine (<i>P.</i>	49	S.p.	Good	Remove



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	<i>resinosa</i>)				
67	White spruce (<i>Picea glauca</i>)	31	S.p.	Fair/Poor: significant dieback in crown	Remove
68	Silver maple (<i>A.</i> <i>saccharinum</i>)	91	S.p.	Good	Remove

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

⁴The location of these trees was not provided and has been estimated

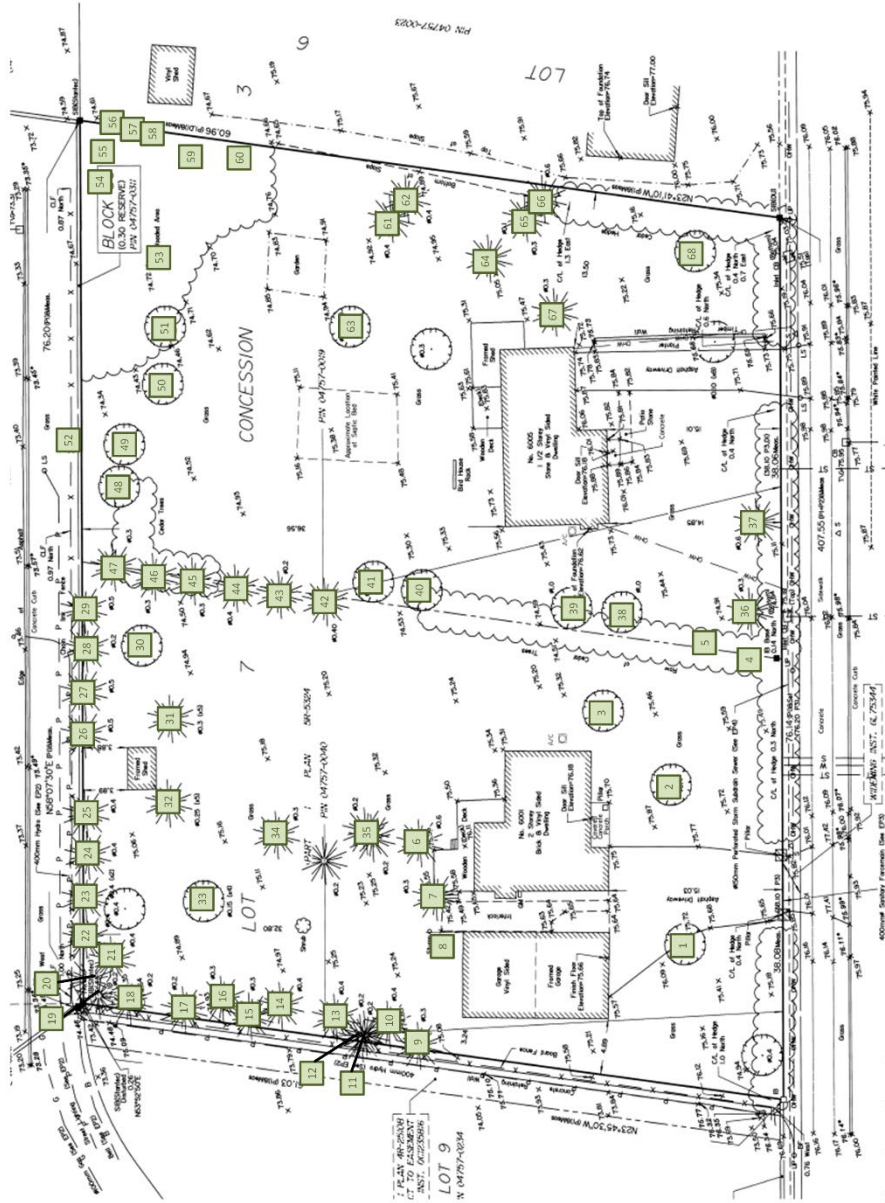


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Note: the tree layer has been added to the original survey supplied by the client in pdf format. This layer refers to the trees only, and the original survey has not been altered in the process. Refer to the original for details as quality is lost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

Legend

 Invented tree (>10cm)



Tree Conservation Report – 6001-6005 Renaud Road
Tree layer prepared by Dendron Forestry Services, May 31, 2023
Existing Trees as of May 17, 2023
For more information, please contact info@dendronforestry.ca



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Appendix B – Photographs



Figure 1 - (Left to Right) Trees 7, 6 & 35



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Figure 2 - (Left to Right) Trees 9-13



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Figure 3 - Western corner of the property (Ziegler is behind the fence in the background)



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Figure 4 - White pines along the north property line



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Figure 5 - Tree 37



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Figure 6 - (Left) Tree 38; (Right) Tree 39



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Figure 7 - (Left to Right) Trees 40-43



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Figure 8 - Northwestern corner of the property



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Figure 9 - Looking along the western property line. Tree 66 indicated with arrow



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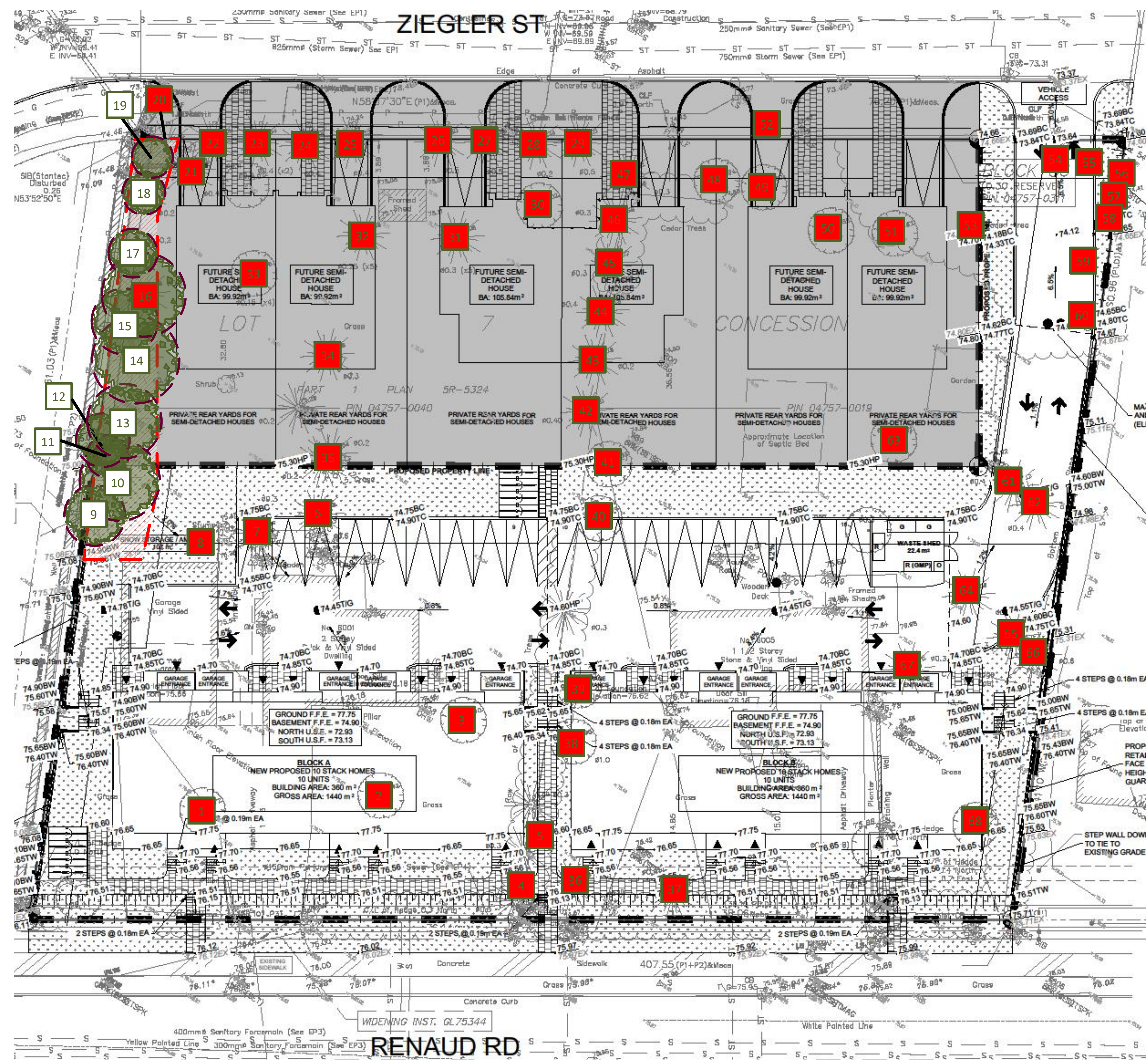
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Figure 10 - (Above) Tree 68 (Right) Tree 64



Tree#	Species	DBH (cm)	Condition
1	Silver maple (<i>Acer saccharinum</i>)	80	Fair: epicormic shoots
2	Crabapple (<i>Malus spp.</i>)	31	Fair/Good: mechanical injury on trunk; sapsucker holes
3	Norway maple (<i>Acer platanoides</i>)	38	Good/Fair: possible canker on trunk
4*	Scot's pine (<i>Pinus sylvestris</i>)	29	Fair/Good: shaded by Tree 38
4*	Scot's pine (<i>Pinus sylvestris</i>)	21	Fair: suppressed
6	Silver maple (<i>A. saccharinum</i>)	12, 14, 56	Good/Fair: codominant stems; sprouts from trunk becoming stems
7	Eastern white cedar (<i>Thuja occidentalis</i>)	29	Fair
8*	Silver maple (<i>A. saccharinum</i>)	23	Good/Fair: codominant stems; slight lean
9	Red pine (<i>Pinus resinosa</i>)	21	Fair: thin crown
10	Red pine (<i>P. resinosa</i>)	28	Fair: thin crown
11	Red pine (<i>P. resinosa</i>)	15	Fair: thin crown
12	Red pine (<i>P. resinosa</i>)	19	Poor: thin crown; lean
13	Red pine (<i>P. resinosa</i>)	26	Fair: thin crown
14	Red pine (<i>P. resinosa</i>)	31	Fair: forked leader
15	Red pine (<i>P. resinosa</i>)	24	Fair
16	Red pine (<i>P. resinosa</i>)	30	Fair
17	Red pine (<i>P. resinosa</i>)	17	Fair
18	Red pine (<i>P. resinosa</i>)	13	Fair: thin crown; lean
19	Red pine (<i>P. resinosa</i>)	14	Fair: suppressed
20	Red pine (<i>P. resinosa</i>)	19	Fair
21	White pine (<i>Pinus strobus</i>)	37	Good
22	White pine (<i>P. strobus</i>)	36	Good/Fair: crooks
23	White pine (<i>P. strobus</i>)	31, 33	Fair: codominant stems; included bark
24	White pine (<i>P. strobus</i>)	33	Good
25	White pine (<i>P. strobus</i>)	42	Good
26	White pine (<i>P. strobus</i>)	45	Good
27	White pine (<i>P. strobus</i>)	42	Good
28	White pine (<i>P. strobus</i>)	24	Fair: suppressed
29	White pine (<i>P. strobus</i>)	22, 40, 23, 45	Fair: 4 stems divide at 1.2m
30	Norway maple (<i>A. platanoides</i>)	44	Poor: canker on trunk and in crown; lean
31	Eastern white cedar (<i>Thuja occidentalis</i>)	29, 11, 16	Fair: tridominant stems; heavy lean on smaller stem
32	Eastern white cedar (<i>T. occidentalis</i>)	6 stems 9-26cm	Good/Fair
33	Tree lilac (<i>Syringa reticulata</i>)	15, 7, 13, 19, 17	Good/Fair
34	Mountain ash (<i>Sorbus spp.</i>)	21, 24	Fair: wound on trunk; sapsucker holes
35	Norway maple (<i>A. platanoides</i>)	12, 14	Fair: poor union – included bark
36	Scot's pine (<i>P. sylvestris</i>)	24, 20	Poor: LCR <15%
37	Sugar maple (<i>Acer saccharum</i>)	55	Fair: central leader is dead – has been replaced by side branches
38	Silver maple (<i>A. saccharinum</i>)	110	Fair: codominant stems with very large bulge at union; broken branches
39	Silver maple (<i>A. saccharinum</i>)	91	Fair/Good: tridominant stems; cavities with decay (one >1/4 diameter, one <1/8)
40	Silver maple (<i>A. saccharinum</i>)	83	Fair: large limb broken and hanging; decay at base where large stem was removed
41	Silver maple (<i>A. saccharinum</i>)	27, 57, 60	Fair: three stems – smallest fusing with largest; small cavity at base
42	Scot's pine (<i>P. sylvestris</i>)	35	Fair: suppressed
43	Scot's pine (<i>P. sylvestris</i>)	32	Fair/Poor: thin crown
44	Scot's pine (<i>P. sylvestris</i>)	35	Fair/Good
45	Red pine (<i>P. resinosa</i>)	33	Good/Fair: slight lean with possible girdling root
46	Scot's pine (<i>P. sylvestris</i>)	25	Good
47*	Scot's pine (<i>P. sylvestris</i>)	23	Fair: suppressed
48	Scot's pine (<i>P. sylvestris</i>)	33	Fair: crooks
49	Scot's pine (<i>P. sylvestris</i>)	37	Fair: sapsucker
50	Silver maple (<i>A. saccharinum</i>)	67, 84	Fair/Poor: large crack with cavity at main union
51	Silver maple (<i>A. saccharinum</i>)	94	Fair/Good: decay in large wound in crown
52	Trembling aspen (<i>P. tremuloides</i>)	7 stems 8-14cm	Fair: growing on fence
53	Norway spruce (<i>Picea abies</i>)	5 trees avg. 40cm	Good
54	Silver maple (<i>A. saccharinum</i>)	57	Fair: heavy lean into subject property
55	Manitoba maple (<i>A. negundo</i>)	15	Fair: lean
56	Manitoba maple (<i>A. negundo</i>)	18	Fair: lean
57	Manitoba maple (<i>A. negundo</i>)	27	Fair: lean
58	Manitoba maple (<i>A. negundo</i>)	20	Fair: lean
59	Scot's pine (<i>P. sylvestris</i>)	22, 30	Fair: sapsucker
60	Basswood (<i>Tilia americana</i>)	52	Fair: hollow trunk with sprouts
61	Scot's pine (<i>P. sylvestris</i>)	42	Fair/Good
62	Scot's pine (<i>P. sylvestris</i>)	33	Fair
63	Silver maple (<i>A. saccharinum</i>)	8 stems 6-23cm	Fair: growing as clump
64	Bur oak (<i>Quercus macrocarpa</i>)	9	Good
65	Scot's pine (<i>P. sylvestris</i>)	26	Fair: lean and crooks
66	Red pine (<i>P. resinosa</i>)	49	Good
67	White spruce (<i>Picea glauca</i>)	31	Fair/Poor: significant dieback in crown
68	Silver maple (<i>A. saccharinum</i>)	91	Good

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). **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:


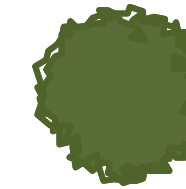


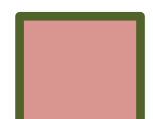
- Do not change the grade
- Do not store construction material
- Do not operate machinery
- Do not convert to hard surface or change the landscaping
- Do not excavate unless it is a method that has been pre-approved by the City
- Do not place signs, notices or posters to any tree
- Do not damage the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

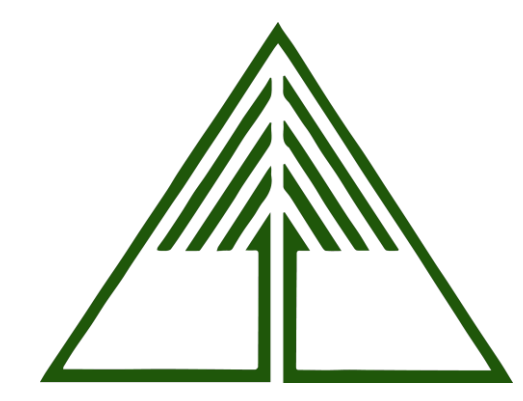
If the fenced tree protection area must be reduced to facilitate construction, *one* of the following mitigation measures should be applied:

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

Legend

-  Critical Root Zone
-  Private Tree
-  Tree to be removed
-  Tree Protection Area
-  Potential transplanted tree

Note: 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 Conservation Report – 6001-6005 Renaud Road
 Tree layer prepared by Dendron Forestry Services
 Version 1.0, June 12, 2023
 For more information, please contact info@dendronforestry.ca