

TREE CONSERVATION REPORT

1110 Fisher

Tree Conservation Report submitted as Partial Requirements for a Zoning Application

Astrid Nielsen, RPF, ISA Certified Arborist®, ON-1976



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

Tree Conservation Report V 2.0

Address: 1110 Fisher

Date: October 28, 2019

Prepared by: Astrid Nielsen, RPF, ISA Certified Arborist ®, Dendron Forestry Services

Prepared for: Enzo Di Chiara, P.Eng

Prestige Design & Construction (FISHER) Ltd.

50 Camelot Drive

Ottawa, Ontario, K2G 5X8

Office phone: 613-224-9437 extension 103

Cellular phone: 613-913-6935 Email: enzo@prestigeottawa.com

Site Visit: October 23, 2019

Introduction

This Tree Conservation Report V 2.0 has been prepared for 1110 Fisher, as partial requirements for the Zoning Application submitted to the City of Ottawa. It replaces the Report prepared on May 21, 2019. The objectives of this Tree Conservation Report are:

- To describe all trees over 10 cm on the site and all city-owned trees on adjacent property, recording their species, size, and current health condition
- To evaluate the impact of the trees by the proposed development and what the recommended action is (retain or protect)
- To provide recommendations on how to mitigate damage to retained trees during construction

Current vegetation

The following is an inventory of all trees that are protected under City of Ottawa tree by-laws on the site and adjacent City property. This includes trees over 10 cm in diameter on the subject site and on neighbouring properties whose Critical Root Zone extend within the area of excavation. The numbers in this chart refer to those on the *Current Vegetation Tree Map* included in this report which is a layer that has been added to the Grading Plan that was provided. The original grading plan was not altered in the development of this tree layer.



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

Note that locations of some trees on this map are estimates only – not all the neighbouring trees were included in the grading plan. The locations that have been estimated have been identified in the chart.

Tree ¹	Species	Diameter at breast height (dbh)	Critical Root Zone (m)	Ownership	Condition	Action
1	Norway maple (Acer platanoides)	78 cm	8 m	Jointly owned with City	Fair/poor	Proposed removal; conflict with new laneway and poor health
2	Norway maple (Acer platanoides)	30 cm	3 m	City	Good	Retain provided there is no excavation planned within the critical root zone
3	Norway maple (Acer platanoides)	8 cm	1 m	City	Good	Retain provided there is no excavation planned within the critical root zone
43	Norway spruce (<i>Picea abies</i>)	38 cm	4 m	Neighbouring school property	Good; 1.9 m from the property line	Retain; minimize excavation of critical root zone
5³	Norway spruce (Picea abies)	28 cm	3 m	Neighbouring school property	Good	Retain
63	Norway spruce (Picea abies)	38 cm	4 m	Neighbouring school property	Good; 10% lean towards road	Retain
7 ³	Norway spruce (Picea abies)	37 cm	4 m	Neighbouring school property	Good	Retain
83	Norway spruce (Picea abies)	31 cm	3 m	Neighbouring school property	Good; supressed	Retain
93	Norway spruce (Picea abies)	37 cm	4 m	Neighbouring school property	Fair; 3.9 m from property line	Retain
10³	Norway spruce (<i>Picea abies</i>)	43 cm	4.5 m	Neighbouring school property	Good; 4.0 m from property line	Retain



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

11³	Norway spruce (Picea abies)	39 cm	4 m	Neighbouring school property	Good	Retain
12	Norway spruce (<i>Picea abies</i>)	50 cm (estimate only)	5 m	Jointly owned with neighbour at 1130 Trent St	Good	Retain and protect
13	Norway spruce (Picea abies)	35 cm (estimate only)	3.5 m	Jointly owned with neighbour at 1130 Trent St	Fair; pruned by hydro, roots have been damaged by soil excavation and compaction	Removal recommended as excavation will come within approximately 1 m from the tree and tree is in fair health; approval by abutting neighbour is required
143	Manitoba maple (Acer negundo)	10, 10, 11 cm	1 m	Private	Good/fair	Removal recommended due to site grading and paving
15³	Manitoba maple (Acer negundo)	24, 7 cm	2.5 m	Jointly owned with neighbour at 1120 Trent St	Fair; heavy lean and decay at base; small nest located in smaller tree	Either removal for poor health or retention to provide for screen
16³	Manitoba maple (Acer negundo)	20 cm	2 m	Jointly owned with neighbour at 1120 Trent St and/or City	Fair/poor	Either removal for poor health or retention to provide for screening
17³	Manitoba maple (Acer negundo)	36, 10, 10 cm	4 m	Jointly owned with City	Fair	Either removal for poor health or retention to provide for screening

¹ Please refer to the enclosed maps for tree numbers. Note that the maps include 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.

² Critical Root Zone is an area around the trunk with a radius equivalent to 10 times the diameter of the trunk

 $^{^{\}rm 3}$ Location is not included on original grading plan and has been estimated



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

In addition to the above, there are also two cedar hedges running close to the property line, on the neighbouring school property (see map) The diameters of these cedars range from 5-20 cm and are within approximately 20 cm from the property line.

Proposed Development and Conserved Vegetation

The proposed development is shown in the *Proposed Development and Conserved Vegetation Map*. This map shows a tree layer created by Dendron Forestry Services overlaying the Grading Plan provided by Prestige Design & Construction.

Tree no. 1 is a Norway maple in relatively poor health and is directly in the path of the new laneway, therefore, removal is recommended. Tree no.2 and 3 are also city-owned Norway maple and provided there is no major trenching of their critical roots, these trees should be retainable. The location for the protective fencing has been included for these trees.

Tree nos. 4-11 are Norway spruce growing together in a clump. For the most part, there will be little damage to the roots of these trees except for tree no. 4 which is only 1.9 m from the fence. Given the scope of this project, it is assumed that excavation will come right to the fence line. Spruce are shallow rooted, and the majority of root mass is likely in the top 1 m of soil. If there is flexibility with the excavation, it is recommended that as much root mass be left in the top metre of soil for this tree as possible. Because these trees grown in a clump, their roots are intertwined and support one another. With the loss of some of the critical root mass for tree no. 4, it should remain supported by the remaining trees. Any exposed roots should be kept moist with organic material such as burlap until they are re-buried. In addition, any roots that are torn should be pruned back with a clean cut to allow for proper sealing.

The cedar hedge running along the southern property line may be impacted by the excavation as well. The same recommended mitigation measures would apply here whereby the excavation in the top metre of soil be kept to a minimum, and the roots be kept moist while being exposed.

Tree no. 12 is in good health and far enough away from the development, that it should be retainable with proper protection measures. Tree no. 13 is in fair condition that has undergone significant hydro pruning along the north side. The crown is also thin on the south side as is a large stump (perhaps an ash) close to the base indicating that it was likely shaded out by a large tree. The roots have also been damaged through some recent compaction and grade changes. The proposed excavation will come to approximately 1 metre to the base of the tree resulting in a loss of approximately 20% of the root mass, possibly including some stabilizing roots. Given the poor health combined with the proposed excavation, removal of this tree is recommended. Note that because this is a jointly owned tree, approval for removal with the neighbouring owner is required.

Tree no. 14 is a clump of Manitoba maple that will be exposed to significant grading. Combined with being an invasive species, removal is recommended. The remaining Manitoba maple are very close to, or on the property line with the abutting neighbour and the city. For the most part, these trees are in poor/fair condition, however, they do provide screening. Removal and replacement with more desirable species are recommended. However, they could be retained if screening is a priority. Permission with the abutting owners is required for removal.



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

Tree Protection Measures

Prior to any site works, protective fencing should be installed around the trees as indicated in the attached *Proposed Development and Conserved Vegetation Map* and maintained until all construction on site has been completed as per the **City of Ottawa Tree Protection Specifications (April 2019)**. Within the fenced area, the following tree protection guidelines should be applied:

- Do not change the grade
- Do not place store construction material of site "furniture" such as outhouses
- 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.

The undersigned personally inspected the property and issues associated with this report on October 23, 2019. On Behalf of Dendron Forestry Services,





Astrid Nielsen, RPF, ISA Certified Arborist ®, ON-1976
Principal, Dendron Resource Surveys

<u>Astrid.nielsen@dendronforestry.ca</u>
(613) 805-9663 (WOOD)
Principal, Dendron Resource Surveys



Dendron Forestry Services www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca



Figure 1: Tree no. 1 - Norway maple in fair/poor condition on City property

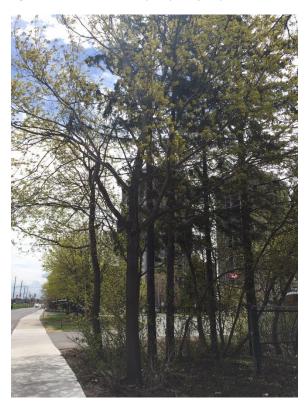


Figure 2: Trees no. 2 and 3 - City-owned Norway maples



Dendron Forestry Services www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca



Figure 3: Southern property line – clump of Norway spruce (tree nos. 4-11)



Figure 4: Cedar hedge along western property line



Dendron Forestry Services www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca



Figure 5: Norway spruce along the northern property line (tree nos. 12 -13)



Figure 6: Manitoba maple along the northern property line (tree nos. 15-17)



www.dendronforestry.ca 613.805.WOOD (9663) info@dendronforestry.ca

Intended Use of the Report

This Information Report was carried out by Dendron Forestry Services (hereafter Dendron) at the request of the Client. The information, interpretation and analysis contained within this Report is to be used solely for the purposes outlined within this Report. This Report is for the exclusive use of the Client.

Limitations of this Report

This Report is based on the circumstances and observations as they existed at the time of the site inspection of the Client's Property and the trees situate thereon by Dendron and upon information provided by the Client to Dendron. The opinions in this Report are given based on observations made and using generally accepted professional judgment, however, because trees and plants are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this Report are valid only as at the date any such testing, observations and analysis took place and no guarantee, warranty, representation or opinion is offered or made by Dendron as to the length of the validity of the results, observations, recommendations and analysis contained within this Report As a result the Client shall not rely upon this Report, save and except for representing the circumstances and observations, analysis and recommendations that were made as at the date of such inspections. It is recommended that the trees discussed in this Report should be re-assessed periodically.

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.

Dendron accepts no responsibility for the implementation of all or any part of the Report, unless specifically request to examine the implementation of such activities recommended herein. In the event that inspection or supervision of all or part of the implementation is request, that request shall be in writing and the details agreed to in writing by both parties.

Assumptions

The Client is hereby notified and does hereby acknowledge and agree that where any of the facts and information set out and referenced in this Report are based on assumptions, facts or information provided to Dendron by the Client and/or third parties and unless otherwise set out within this Report, Dendron will in no way be responsible for the veracity or accuracy of any such information. Further, the Client acknowledges and agrees that Dendron has, for the purposes of preparing their Report, 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 explicitly denies any legal liability for any and all 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.

Professional Responsibility

In carrying out this Report, Dendron and any Assessor appointed for and on behalf of Dendron to perform and carry out the Report has 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.

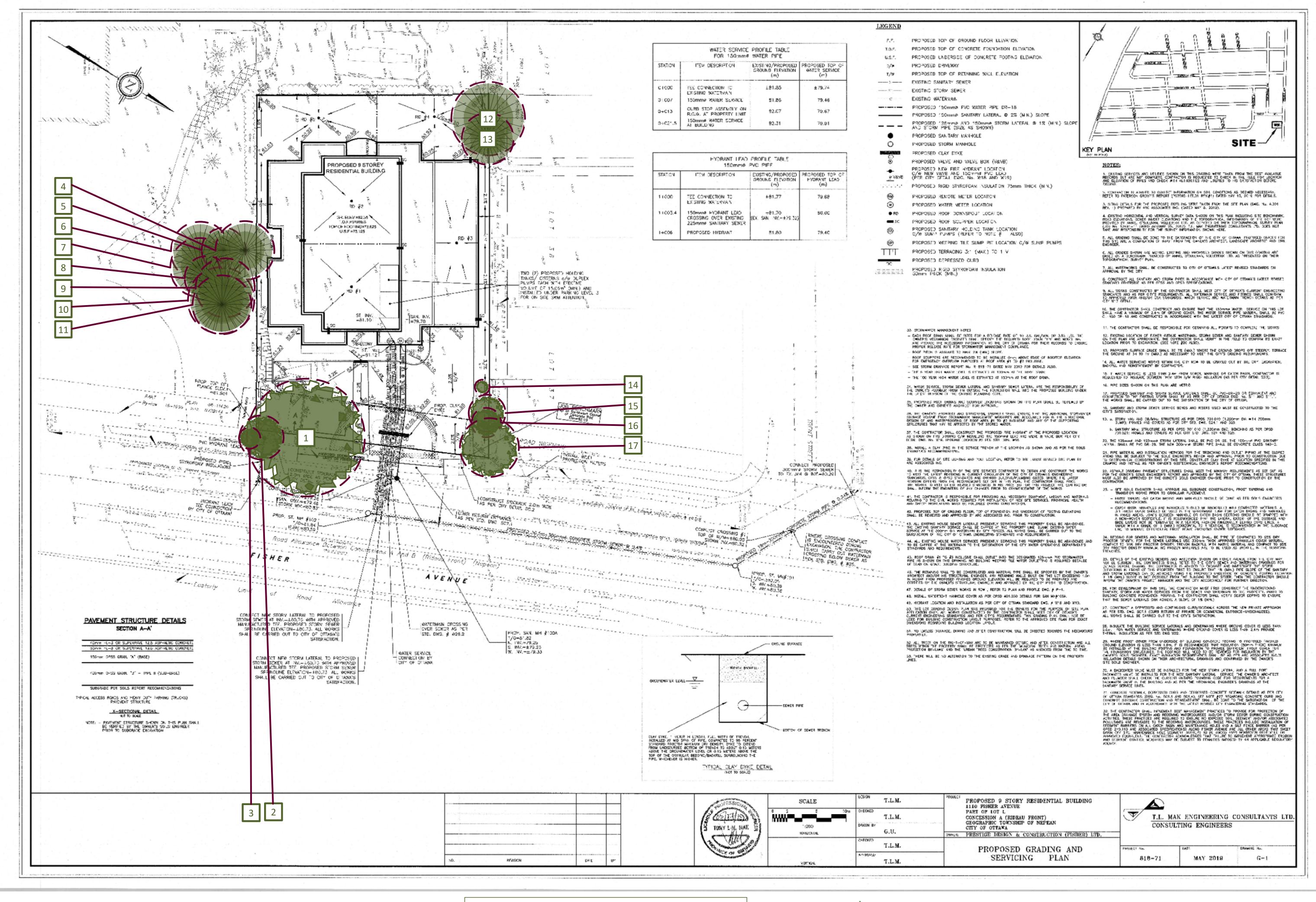
Without limiting the foregoing, no liability is assumed by Dendron for:

- 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.

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 or Assessors, in contract or in tort, more than 12 months after the date of this Report.

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.





Critical Root Zone tre

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.

Note that locations of trees not identified on the grading plan have been estimated.

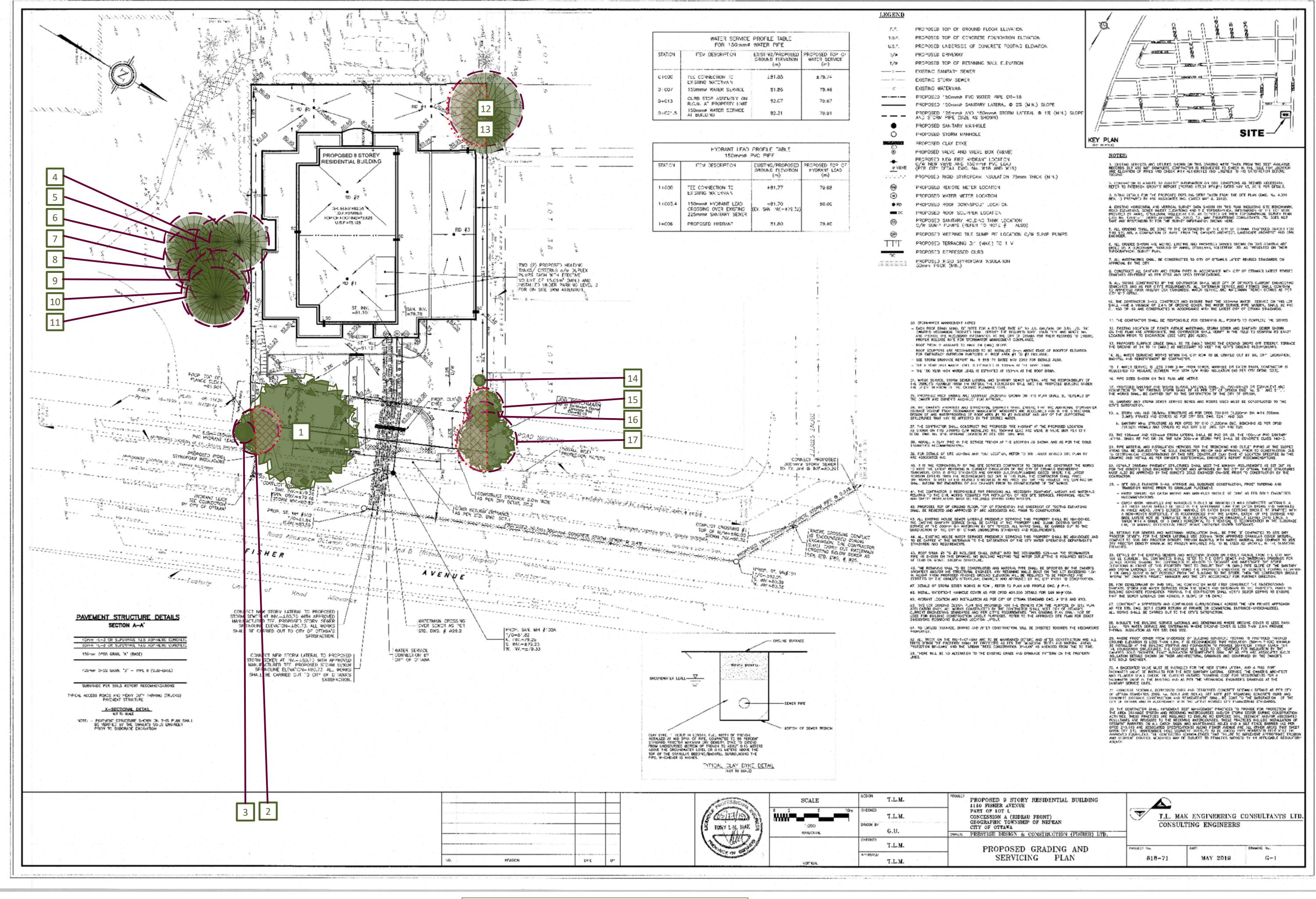


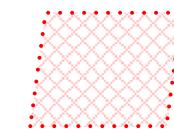
Tree Conservation Report – Current Vegetation

Tree layer prepared by Dendron Forestry Services

Version 2.0, Oct 23, 2019

For more information, please contact info@dendronforestry.ca





Recommended Tree



Critical Root Zone

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.

Note that locations of trees not identified on the grading plan have been estimated.



Tree Conservation Report – Proposed Developmet and Conserved Vegetation

Tree layer prepared by Dendron Forestry Services Version 2.0, Oct 23, 2019

For more information, please contact info@dendronforestry.ca