

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

ARBORIST REPORT TREE PROTECTION AND REMOVAL PLAN

Prepared For:

Ms. Radelina Doytchinov

JOSEPH N. CAMPITELLI ARCHITECT INC.

10 Bur Oak Avenue, Unit 3, Markham, ON L6C 0A2

p. 905-887-8900 f. 905-887-9400

e. radelinad@jnc-architect.com

w. www.jnc-architect.com

L4B 3Y4

RE: 10 Mill Street, Vaughan

Prepared By: Peter Wynnyczuk

December 7, 2019

ATTACHMENT 7

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

Table of Contents

Cover Page	1
Table of Contents	2
Introduction and Tree Assessment	3 - 6
Tree Protection Criteria and Recommendations	6 - 7
Trees on Property Overview and Pictures	8 – 20
10 Mill Street Tree Inventory/Action Table Appendix “A” (Separate Plan)	21-23
10 Mill Street Tree Protection and Removal Plan Appendix “B” (Separate Plan)	24

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

Introduction

The Owner proposes to construct a new garage over the existing house that is to be demolished and a new house connected to the garage on the east side. The site currently has an existing house.

P & A Urban Forestry Consulting Ltd. were retained to address the Planning requirements of the City of Vaughan related to the Tree Preservation requirements of the City. **This Report is based on the information provided as of December 6, 2019 in the form of;**

- 1) Surveyors Real Property Report, Ertl Surveyors, O.L.S., Project 15392, dated Aug. 5, 2015.**
- 2) Site Plan and Statistics by Joseph Campitelli Architects, Rev, 12, December 6, 2019, Drawing A 100.**

If other relevant information becomes available or there are revisions, it may be necessary to review and update the Arborist Report.

Tree Information Collection Process and Review

A site visit was conducted on October 5, 2019. Trees were assessed by ground visual means to assess the trees in relation to the development process as well as their proximity to construction impacts. The Tree Protection Zones are proposed based on the information and site limitations available. Details and proposed actions are provided in the Tree Inventory and Action Appendix "A". Separate Excel Spreadsheet, which is to be read in conjunction with Tree Protection and Removal Plan Appendix "B" separate Plan.

The above noted information is depicted on the Tree Protection and Removal, dated December 7, 2019. Additional pictures were taken of the trees for future reference if needed but do not form part of this Report.

Recommendations

Vaughan Street Tree Bylaw

There appears to be a dead Ash and a severely topped due to hydro pruning Manitoba Maple #1468. Both trees are not sustainable in the road allowance and are the responsibility of the City to determine action as they are in conflict with the proposal. It is suggested the city be contacted to review these trees in light of the condition and location in proximity to the ongoing hydro clearing impacts on tree health and structure.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

Private Tree Protection Bylaw

There are several trees in this development application that would be affected by the City of Vaughan Private Property Tree Bylaw (185-2007). In order to meet the spirit of the Bylaw and the Planning requirements of the City there will be Tree Protection Zones as applicable and tree removals as needed with a replacement planting proposed. These lands are also under TRCA jurisdiction and may have conditions set out by this Authority.

Offsite Trees

There are no off-site trees that are to be affected by this construction and tree protection within the property will be installed.

Canopy Cover Impacts

The existing canopy cover for this site is estimated at 85%. The estimated impact on canopy reduction due to construction impacts is approximately 15%. Additional more appropriate plantings will help offset some of the canopy reduction.

Proposed Tree Planting and Compensation

City of Vaughan Replacement Formula

The City of Vaughan Replacement ratios based on DBH are as follows:

Greater than 51cm 4 to 1, 41 to 50cm 3 to 1, 31 to 40cm 2 to 1, 20 to 30cm 1 to 1

Tree #1439, 1441, 20 to 30cm 1 to 1 replacement $2 \times 1 = 2$

Tree #1438, 1444, 31 to 40cm, 2 to 1 = $2 \times 2 = 4$

Tree #1437, 1447, 41 to 50cm = 3 to 1 = $2 \times 3 = 6$

Tree #1436, >51cm = $1 \times 4 = 4$ trees

Preliminary total of trees to replace, pending response from TRCA/City of Vaughan, City permission, further review and any additional revised plans is 16 trees

Replacement trees to be provided on a Landscape Plan provided by others.

If the owner and City agree, as there are still several trees on this site, cash in lieu, @\$550.00/tree or the most current value placed by the City can be discussed.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

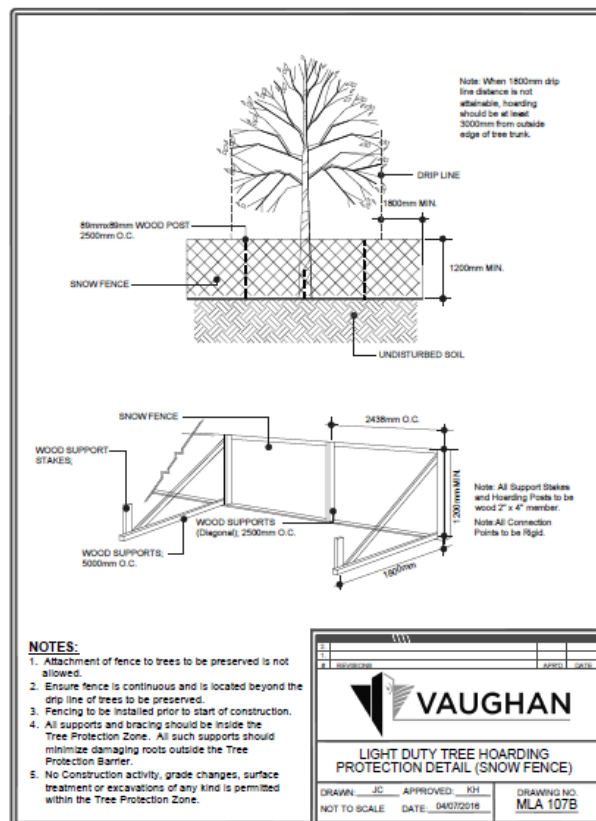
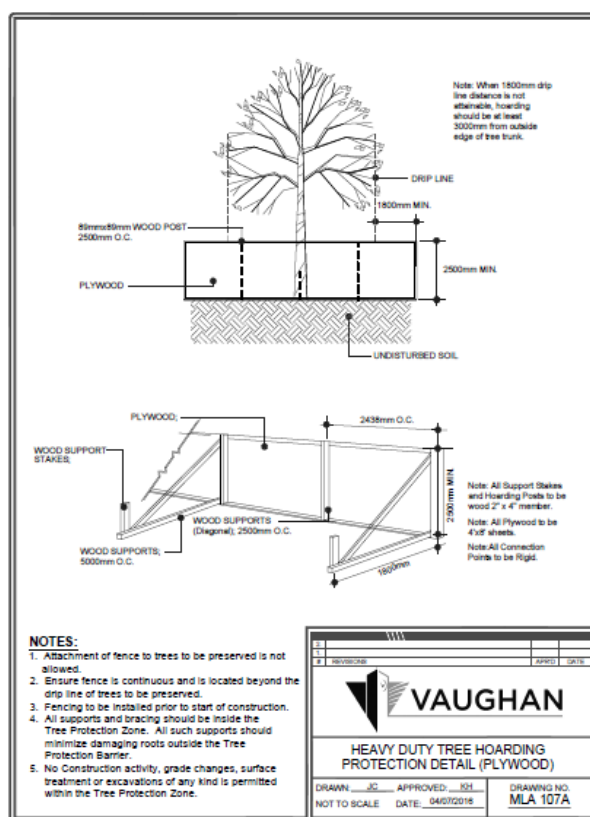
Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

Tree Protection

All tree protection to conform to the relevant jurisdiction. On private lands the City of Vaughan detail applies. Heavy and Light duty tree protection as referenced on Tree Protection and Removal Plan Appendix "B", December 7, 2019 and as part of this report.

Tree Protection Fencing Vaughan for Private Property trees



P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

Tree Protection minimum distance Table

17

Table 2: Minimum Tree Protection Zone Determination

Diameter at Breast Height ¹ in centimeters	Minimum Protection Distances Required ² (Public and Private Trees)	Minimum Protection Distances Required Trees in Naturalized Areas
<10	1.2	The drip line ³ or 1.2 m
10-29	1.8	The drip line or 3.6 m
30-40 ⁴	2.4	The drip line or 4.8 m
41-50	3.0	The drip line or 6.0 m
51-60	3.6	The drip line or 7.2 m
61-70	4.2	The drip line or 8.4 m
71-80	4.8	The drip line or 9.6 m
81-90	5.4	The drip line or 10.6 m
91-100	6.0	The drip line or 12.0 m
>100	6 cm protection for each 1 cm diameter	12 cm protection for each 1 cm diameter or the drip line

1. Diameter at breast measurement of tree trunk taken at 1.4 meters (m) above the ground.

2. Minimum Tree Protection Zone distances are to be measured from the outside edge of the tree base.

3. The drip line is defined as the area beneath the outer most branch tips of a tree

4. Converted from ISA (International Society of Arboriculture) Arborist Certification Study Guide, general guidelines for tree protection barriers of 0.3 meters of diameter from the tree stem for each centimeter of tree trunk diameter.

Pre, During, and Post Construction Arboriculture Supervision

It is recommended there be meetings and inspections scheduled to help address the Arborist Report recommendations as noted below;

Preconstruction

- 1) Pre-construction meeting with the Owner and General Contractor to mark out the TPZ areas and set the parameters for the various contractors who will be on site. Any tree removals are not to affect any trees to be protected.
- 2) Valley Shed to be carefully removed not to affect remaining trees.
- 3) Installation of TPZ prior to any major demolition or site activity.
- 4) Verification by the Arborist of TPZ installation with notification to the Town by email.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842

During Construction

- 1) Monthly onsite inspection to verify integrity of TPZ and identification of any issues related to the trees during the construction to final grading. Document findings and advise client of any action needed as required to retain trees noted.
- 2) Site inspection as required by the City or the Client to address tree issues and make recommendations for follow-up by the Client, as issues arise.
- 3) Inspection prior to final grading of site to verify tree conditions and authorize removal of TPZ structures. Report any issues if needed for Client follow-up.

Post construction

- 1) Inspection of retained trees to note any additional work such as pruning, aeration, deep root fertilizing or other recommended work.
- 2) Plantings to take place after sod establishment if planted in disturbed areas or when seasonably appropriate in other areas. Plantings by a qualified/certified landscape firm.
- 3) Verify plantings the season after sod establishment.

The information and recommendations noted in this report are based on the information provided at the time the report was written. Any updates or changes in design require the review of the report in relation to the changes presented. There may be revisions to this report to address the site changes, as it relates to the tree protection noted.

It is the responsibility for the owner to abide by the conditions, as set out by the Municipality, related to tree protection for the duration of the construction up to the time of occupancy permit issuance.

Prepared for:

Al Miley and Associates



Peter Wynnyczuk

Hazard Risk Assessor CTRA # 727, ISA, Utility Arborist #400113535 under MTCU

Butternut Health Assessor #591

ISA Certified Arborist ON-2067A

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 1. From South West showing trees #1434 on right and #1435 on left, both to be retained and tree protection to be installed.



Picture 2. From South Tree #1436 , to be removed with 4 to 1 replacement.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 3. From South East showing tree #1437 centred to be removed construction. 3 to 1 replacement. |



Picture 4. From South East, on Right #1437, in front of car #1438, leaning to west and #1439 over roof of car, with #1441 Juniper on right. Tag 1440 lost, no tree. All to be removed with replacements for #1438 to #1441 to total 4 replacements.

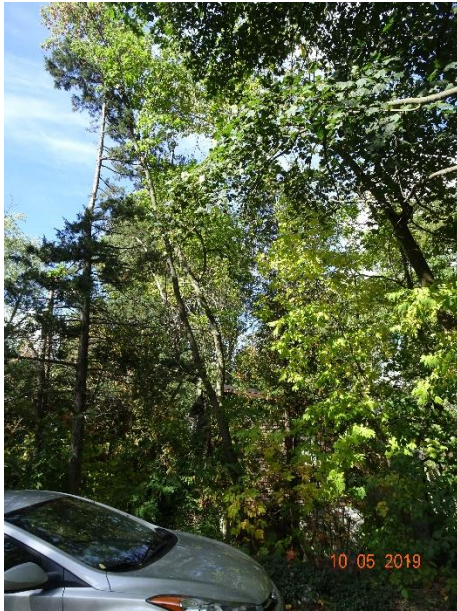
P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 5. From East showing tree #1439 centre and #1441 on left, with #1442 and 1443 on far left. All to be removed. #1442 and #1443 are undersized for the Bylaw and no replacement proposed.



Picture 6. Looking North West #1441 on right 1442 left of real estate sign and #1443 over sign all to be removed. 1 tree proposed for replacement for #1441. Note severe topping due to hydro clearing.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

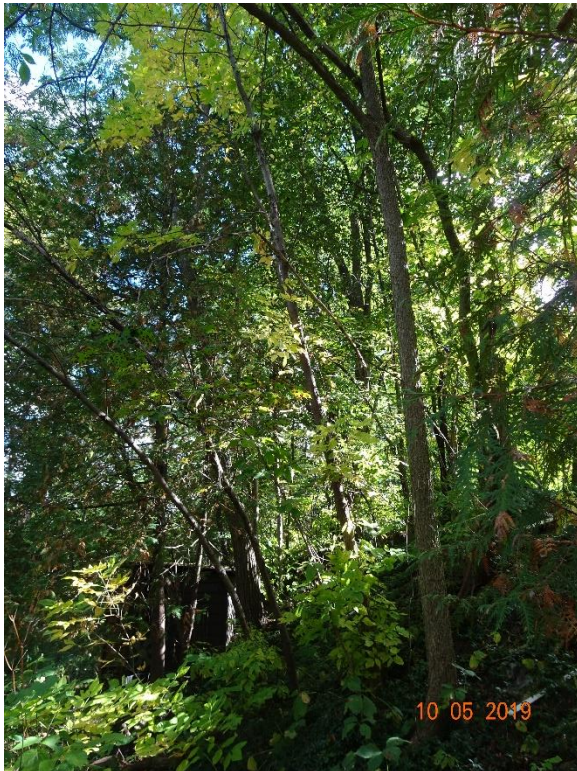
40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 7. Looking North at #1444 at base o steps to be removed construction, 1 replacement tree proposed for replacement.



Picture 8. From West near NEC of house, Undersized for Bylaw Tree #1445 on right and #1446 Cedar on left, no replacements proposed. At corner of shed is trunk of #1447 which has a 3 to 1 replacement.

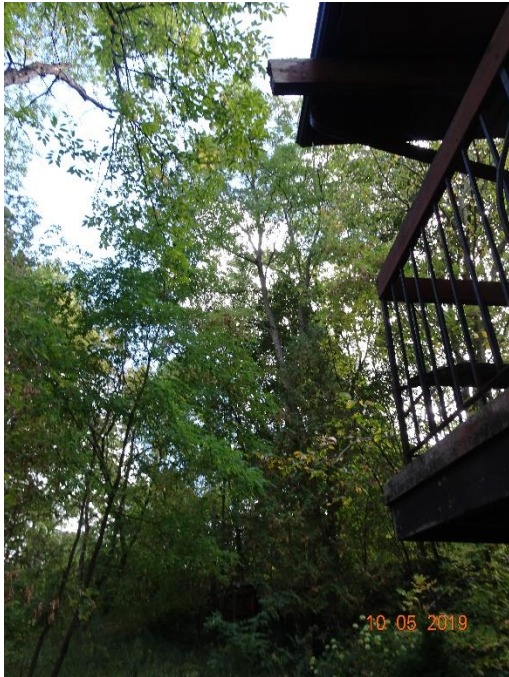
P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

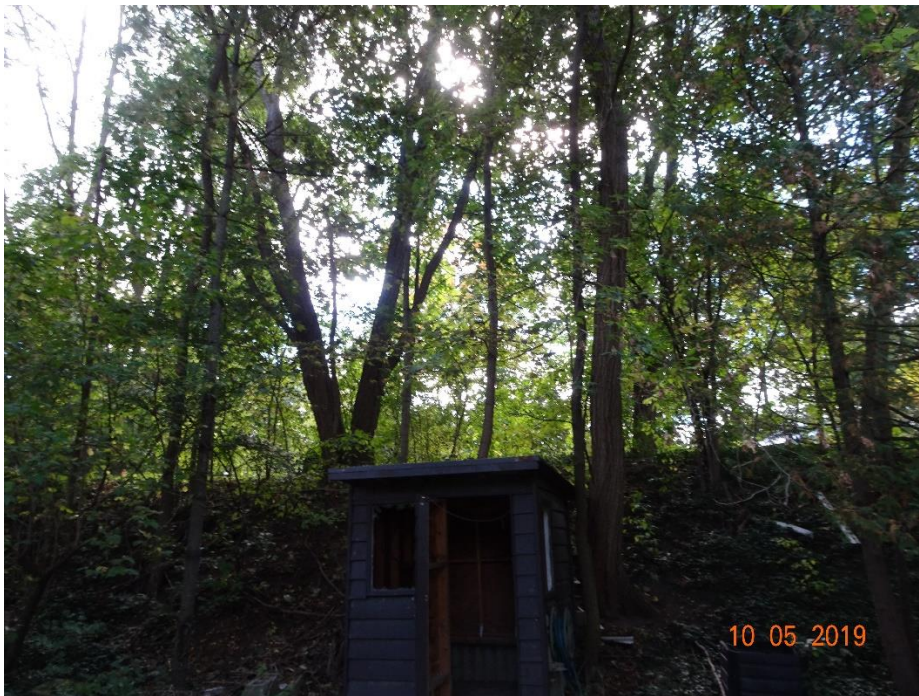
Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



to 1 replacement

Picture 9. From West #1447 Canopy, to be removed with 3



Picture 10. From North, Cedar #1446 on left, #1447 at shed corner, (3 to 1 replacement), two (2) undersized Norway Maples, #1449 and #1450, #1451 Pine left of shed to be removed no replacements proposed.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 11. Undersized Tree #1451 to be removed no replacements proposed.



Picture 12. From West Apple #1448 to be removed based on condition, no replacement proposed.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 13. From South showing ravine shed to be removed. Cedar Clump #1452 to be retained. Shed demolition should not affect trees in area.



Picture 14. From East showing Cherry tree #1453, to be retained. Tree protection to be installed. Easterly dead leader should be removed.

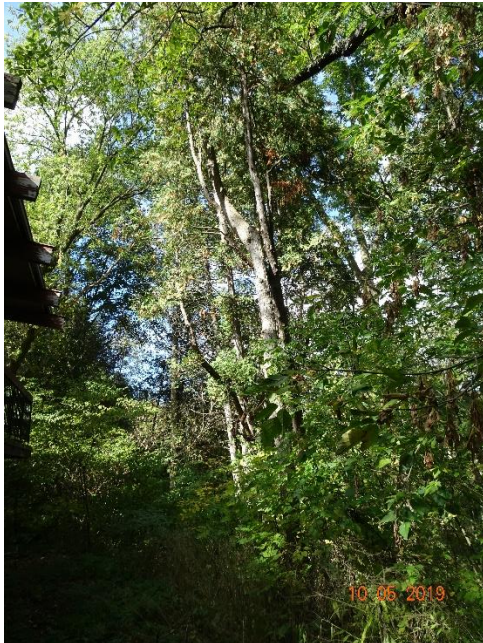
P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 15. Cedar tree #1454 leaning in dead Ash to be retained unless it collapses after dead Ash removed. Compensation to be determined if removed.



Picture 16. From West showing trees #1455 and 1456 to be retained. Tree Protection to be installed.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

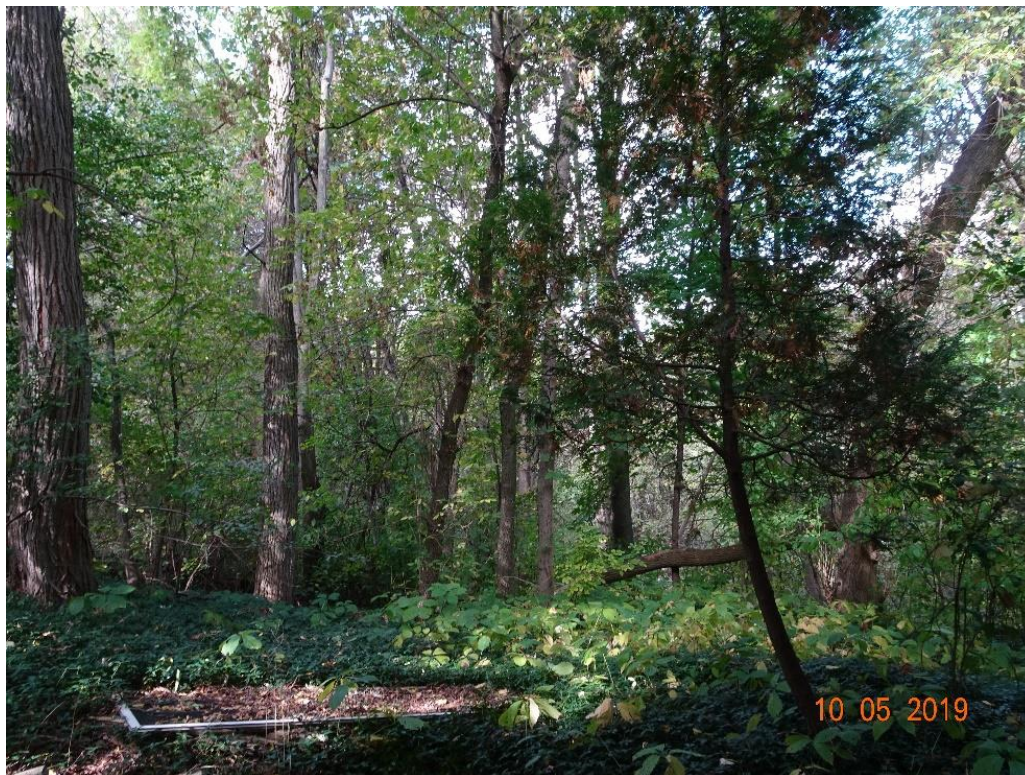
40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 17. From west tree #1457 to be retained and protected.



Picture 18. From west showing trunks of trees #1457 on left leaning, #1458 centred, #1459 left of centre and #1460 on far left. All to be retained and protected.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 19. A + B. A. From South West showing #1460 on far left, #1461 and #1462 more centred, to be retained and protected. B. Trunks of #1461 on right and #1462 on left, to be protected.



Picture 20. From SW tree #1462 to be retained

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 21. From SW showing City

#168 on left and dead Ash on right, city to determine compensation for the dead and disfigured tree.



Picture 22. From

South undersized Cedar #1464 behind Ash tree to be removed, no replacement proposed.

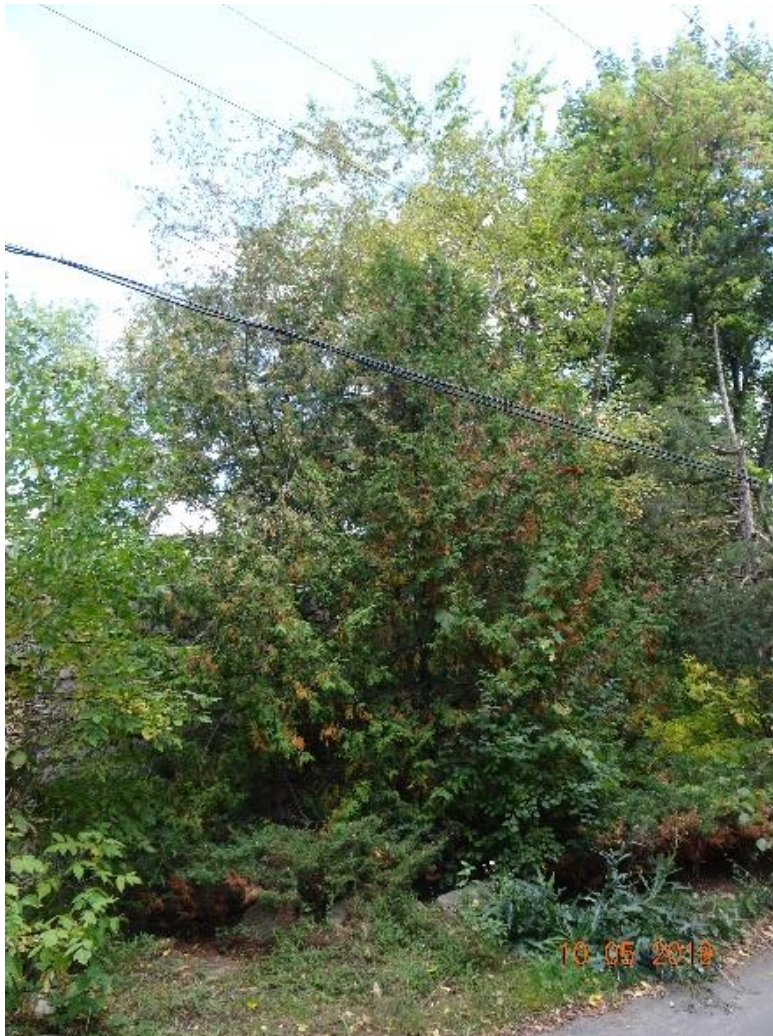
P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 23. From South undersized

Cedar #1465, 1466 to be removed, no replacement proposed.

P & A Urban Forestry Consulting Ltd.

Specializing in Tree Assessment

40 Brillinger Street, Richmond Hill, Ontario, L4C 8Y4 Cell 416 399-4490

Email: peter@paurbanforestryconsulting.com Web: paurbanforestryconsulting.com

Report #0842



Picture 24. From South undersized Birch

#1468 to be removed, no replacement proposed.

Page 21 to 23. Tree Inventory Action/Table Appendix "A", December 7, 2019

(Separate Excel Table)

Page 24. Tree Protection, Removal and Planting Plan Appendix "B", December 7, 2019

(Separate Plan)