



Arborist Report and Tree Preservation Plan

For:
Rose Development
ROSE
REMOVALS

Regarding:
420 South Service Road East

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21 October 2024
Rev: 29 October 2024

Arborist Report and Tree Preservation Plan

Rose Development
420 South Service Road East

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ABOUT THIS REVISION

This revision primarily addresses concerns related to neighboring property trees within 6m of the property boundary. Additionally, the term Stage (referring to a Section of the subject property) has been replaced with the more accurate term "Section".

SUMMARY

This project concerns the usage of the subject site for various storage purposes. There are 118 Tagged Trees in the inventory. In addition to these trees, there are two unmanaged woodlots on the Southeastern and Southwestern corners of the property. These woodlots consist mostly of Buckthorn (an invasive tree), and Phragmite (an invasive reed). Total Buckthorn (<8cm dbh) is estimated at 370 trees between the two woodlots. All of these trees are to be removed during site clearing operations. Other than a few landscape trees along the front (Service Road) side of the property, and one very large Willow in the far Southeast corner of the property, there are no notable trees on the subject site. For purposes of this report, the property is divided into Sections 1 through 7. It should be noted that Section numbers do not necessarily correlate with chronology of proposed use.

Additionally, there are 4 trees (901 - 904) located on the neighboring property at 374 South Service Road East, which are within 6m of the property boundary. These trees will be unaffected by any site clearing and are protected by a 2m chain-link fence along the property line.

Access to the rail lands south of the property was restricted, but an inspection along the boundary fence showed no significant trees (15cm dbh and larger). Likewise, the neighboring property to the east seems to be clear of any significant trees.

Except as noted above, there are no other neighboring property trees, having DBH of 15cm or greater, located within 6m of the property boundary.

INTRODUCTION

Background and History

This property is the site of the former General Electric plant in Oakville. The plant was closed and decommissioned (most buildings removed) in 2010. The site has remained unoccupied since that time and much of the vegetation seen today consists of invasive species and some spurious trees which have grown in areas throughout the site.

Aside from the original 'front property' landscape trees and a few older native trees near the property line fences, there are no trees of significance on the site.

Assignment

The arborist was retained in October 2024 to prepare an Arborist Report and Tree Removal Plan for the Rose Development property located at 420 South Service Road East for submission to Town of Oakville Forestry Department as required by the Town of Oakville tree protection by-laws.

The report is to include an inventory and location (tree survey) including rating and comments (where required) regarding the current Health and Soundness of each subject tree. Additionally, plan drawings showing proposed construction and tree preservation fencing, any mTPZ area encroachments, and proposed tree removals, at minimum, are also included.

Limits of the Assignment

Unless specifically noted, all trees are rated by Limited Visual Assessment (Ground-based), and no exploratory excavation was, or is to be, conducted to verify the presence or absence of tree roots in a given area.

Purpose and Use of This Report

This report is intended to outline all encroachments, tree injuries, and tree removals resulting from the proposed construction (or otherwise proposed by the client) as outlined in subsequent sections for review and approval by the Town of Oakville Forestry Department. It should be noted that the approval, waiver, exemption, or denial of Approvals and/or any necessary Permits rests strictly with the Town of Oakville Forestry Department.

Methodology

For details regarding the onsite protocols and methods used in the creation of this report, please see Appendix II - Methodology

SITE

Current Site Characteristics

This property is the site of the former General Electric plant in Oakville. The plant was closed and decommissioned (most buildings removed) in 2010. The site has remained unoccupied since that time and much of the vegetation seen today consists of invasive species and some spurious trees which have grown in areas throughout the site.

Aside from the original 'front property' landscape trees and a few older native trees near the property line fences, there are no trees of significance on the site.

Proposed Construction

Land clearing and grading to allow for container and open-area storage.

Construction Phases and Anticipated Injury to Encroachment Ratios

SECTION 1 – SECTION 1

Initial Assumptions Regarding Proposed Work

Encroachment Type: Grading General

Maximum Excavation Depth (m): 1

Maximum Build Height or Clearance (m): 1

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)

Root Zone: 1 **Canopy:** 1

SECTION 2 – SECTION 2

Initial Assumptions Regarding Proposed Work

Encroachment Type: Grading General

Maximum Excavation Depth (m): 1

Maximum Build Height or Clearance (m): 5

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)

Root Zone: 1 **Canopy:** 1

SECTION 3 – SECTION 3

Initial Assumptions Regarding Proposed Work

Encroachment Type: Grading General

Maximum Excavation Depth (m): 0.3

Maximum Build Height or Clearance (m): 0.3

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)

Root Zone: 1 **Canopy:** 1

SECTION 4 – SECTION 4

Initial Assumptions Regarding Proposed Work

Encroachment Type: Grading General

Maximum Excavation Depth (m): 0.3

Maximum Build Height or Clearance (m): 0.3

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)

Root Zone: 1 **Canopy:** 1

SECTION 5 – SECTION 5

Initial Assumptions Regarding Proposed Work**Encroachment Type:** Grading General**Maximum Excavation Depth (m):** 0.3**Maximum Build Height or Clearance (m):** 0.3**Assumed Ratio of Injury to Encroachment***(Injury = Ratio x Encroachment)***Root Zone:** 1 **Canopy:** 1

SECTION 6 – SECTION 6

Initial Assumptions Regarding Proposed Work**Encroachment Type:** Grading General**Maximum Excavation Depth (m):** 0.3**Maximum Build Height or Clearance (m):** 0.3**Assumed Ratio of Injury to Encroachment***(Injury = Ratio x Encroachment)***Root Zone:** 1 **Canopy:** 1

SECTION 7 – SECTION 7

Initial Assumptions Regarding Proposed Work**Encroachment Type:** Grading General**Maximum Excavation Depth (m):** 0.3**Maximum Build Height or Clearance (m):** 0.3**Assumed Ratio of Injury to Encroachment***(Injury = Ratio x Encroachment)***Root Zone:** 1 **Canopy:** 1

TREE INVENTORY SUMMARY

Tree Population

Overview

There were One Hundred Twenty Two (122) trees inventoried within the scope of this survey. Of these, there are One Hundred Eight (108) “bylaw regulated trees” pursuant to tree protection rules of the jurisdiction(s) under which the subject site falls. The following tables show summary data for the complete tree inventory.

All Trees by Owner

Ownership	Count
Client Tree	116
Client/Neighbor Shared Ownership Tree	2
Neighbor Tree	4
Total	122

Significant Trees by Jurisdiction

Town of Oakville Forestry Department (DBH 15cm or greater)	
Ownership	Count
Client Tree	104
Neighbor Tree	4
Total	108

Species Distribution (All Trees)

Species	Count	Average DBH (cm)
Boxelder <i>Acer negundo</i>	36	29.7
Freeman Maple <i>Acer freemanii</i>	4	28.5
Norway Maple <i>Acer platanoides</i>	56	30.4
Red Maple <i>Acer rubrum</i>	8	35.0
Sugar Maple <i>Acer saccharum</i>	8	72.5
European White Birch <i>Betula pendula</i>	4	19.0
European Hornbeam <i>Carpinus betulus</i>	8	38.0
Hawthorn Species <i>Crataegus spp</i>	8	23.0
White Ash <i>Fraxinus americana</i>	48	27.2
Black Walnut <i>Juglans nigra</i>	8	39.0
Austrian Pine <i>Pinus nigra</i>	124	37.0
London Planetree <i>Platanus acerifolia</i>	4	23.0
Carolina Poplar <i>Populus canadensis [deltoides × nigra]</i>	20	17.4
Lombardy Poplar <i>Populus nigra</i>	16	18.3

Species	Count	Average DBH (cm)
Aspen/poplar Species <i>Populus spp</i>	12	53.7
Common Pear <i>Pyrus communis</i>	4	33.0
White Oak <i>Quercus alba</i>	4	40.0
Sumac Species <i>Rhus spp</i>	4	13.0
Black Locust <i>Robinia pseudoacacia</i>	4	27.0
Crack Willow <i>Salix fragilis</i>	52	50.2
American Basswood <i>Tilia americana</i>	4	24.0
Siberian Elm <i>Ulmus pumila</i>	12	29.0
Red Elm <i>Ulmus rubra</i>	28	17.4

Summary of Trees by Status

Status	Count
Neighbor Trees - Protected (significant size)	4
Remove (not significant size - within zone)	16
Remove (within zone of construction)	102
Total	122
- Less Neighbor Property Trees (Protected – well removed from site)	(4)
Total Trees on Client Site	118
- Less Trees already removed under Permit 24-206574	(20)
Total Remaining Trees (To Be Removed)	98

Trees Potential Removal

This section lists all trees which will receive encroachment/injury or require removal as a result of the proposed construction activities, and/or their current condition. The Town of Oakville must approve a Permit to Injure or Permit to Remove, where construction activities (including access) are to take place within the Tree Protection Zone of a tree which is:

15cm or larger in DBH located on private land, or

A tree of any size, which is located on Municipal/Public land.

Trees located on Municipal land may be removed only with the consent of Town of Oakville, and may be subject to additional fees at the discretion of, the Municipality.

Additionally, any tree requiring a Permit to Remove may be subject to a Tree Replacement Requirement specifying the number of replacement trees to be planted on the site, or in some case, 'cash-in-lieu' where such planting would be infeasible.

There are 122 trees of various sizes within the scope of this project, which may require removal (or have been removed under a previously granted permit or exemption). The following tables list the trees according to Section (area). Refer to Tree Inventory drawings TPR-100 through TPR-104 for specifics on each Section.

Section 1		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
017 Norway Maple (<i>Acer platanoides</i>) Client Tree	26 4.0	Removal Permit Required
018 European White Birch (<i>Betula pendula</i>) Client Tree	19 8.0	Removal Permit Required
019 Norway Maple (<i>Acer platanoides</i>) Client Tree	35 6.0	Removal Permit Required
020 Norway Maple (<i>Acer platanoides</i>) Client Tree	36 8.0	Removal Permit Required
021 European Hornbeam (<i>Carpinus betulus</i>) Client Tree	39 4.0	Removal Permit Required
022 European Hornbeam (<i>Carpinus betulus</i>) Client Tree	37 6.0	Removal Permit Required
023 Norway Maple (<i>Acer platanoides</i>) Client Tree	34 6.0	Removal Permit Required
024 Norway Maple (<i>Acer platanoides</i>) Client Tree	32 6.0	Removal Permit Required
025 Norway Maple (<i>Acer platanoides</i>) Client Tree	28 6.0	Removal Permit Required
026 Sugar Maple (<i>Acer saccharum</i>) Client Tree	59 14.0	Removal Permit Required
027 Norway Maple (<i>Acer platanoides</i>) Client Tree	26 8.0	Removal Permit Required
028 Sugar Maple (<i>Acer saccharum</i>) Client Tree	86 16.0	Removal Permit Required
029 Lombardy Poplar (<i>Populus nigra</i>) Client Tree	22 8.0	Removal Permit Required
062 Carolina Poplar (<i>Populus canadensis [deltooides × nigra]</i>) Client Tree	20 6.0	Permit (24-206574) - Removed
063 Black Locust (<i>Robinia pseudoacacia</i>) Client Tree	27 8.0	Permit (24-206574) - Removed
088 Siberian Elm (<i>Ulmus pumila</i>) Client Tree	10 2.0	Exempt (size)

Section 2		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
030 Norway Maple (<i>Acer platanoides</i>) Client Tree	20 6.0	Permit (24-206574) - Removed
031 Austrian Pine (<i>Pinus nigra</i>) Client Tree	40 8.0	Permit (24-206574) - Removed
032 Austrian Pine (<i>Pinus nigra</i>) Client Tree	36 8.0	Permit (24-206574) - Removed
033 Austrian Pine (<i>Pinus nigra</i>) Client Tree	29 8.0	Permit (24-206574) - Removed
034 Austrian Pine (<i>Pinus nigra</i>) Client Tree	24 4.0	Permit (24-206574) – Exempt
035 Austrian Pine (<i>Pinus nigra</i>) Client Tree	28 6.0	Permit (24-206574) - Denied
036 Austrian Pine (<i>Pinus nigra</i>) Client Tree	35 8.0	Permit (24-206574) - Denied
037 Siberian Elm (<i>Ulmus pumila</i>) Client Tree	27 8.0	Permit (24-206574) - Denied
038 Austrian Pine (<i>Pinus nigra</i>) Client Tree	50 10.0	Permit (24-206574) - Removed
039 Austrian Pine (<i>Pinus nigra</i>) Client Tree	27 6.0	Permit (24-206574) - Removed
040 Norway Maple (<i>Acer platanoides</i>) Client Tree	29 8.0	Permit (24-206574) - Removed
041 Austrian Pine (<i>Pinus nigra</i>) Client Tree	37 8.0	Permit (24-206574) - Removed
042 Austrian Pine (<i>Pinus nigra</i>) Client Tree	40 8.0	Permit (24-206574) - Removed
043 Norway Maple (<i>Acer platanoides</i>) Client Tree	53 6.0	Permit (24-206574) - Removed
044 Austrian Pine (<i>Pinus nigra</i>) Client Tree	35 8.0	Permit (24-206574) - Removed
045 Austrian Pine (<i>Pinus nigra</i>) Client Tree	38 10.0	Permit (24-206574) - Removed
046 Austrian Pine (<i>Pinus nigra</i>) Client Tree	31 8.0	Permit (24-206574) - Removed
047 Austrian Pine (<i>Pinus nigra</i>) Client Tree	36 10.0	Permit (24-206574) - Removed
067 Red Elm (<i>Ulmus rubra</i>) Boundary Tree	10 4.0	Exempt – Size
068 Red Elm (<i>Ulmus rubra</i>) Boundary Tree	10 4.0	Exempt - Size

Section 3		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
057 White Ash (<i>Fraxinus americana</i>) Client Tree	15 6.0	Exempt (possibly)
058 Carolina Poplar (<i>Populus canadensis</i>) Client Tree	11 6.0	Exempt (size)
059 Carolina Poplar (<i>Populus canadensis</i>) Client Tree	10 4.0	Exempt (size)
060 Carolina Poplar (<i>Populus canadensis</i> [<i>deltoides</i> × <i>nigra</i>]) Client Tree	21 6.0	Removal Permit Required
061 Carolina Poplar (<i>Populus canadensis</i> [<i>deltoides</i> × <i>nigra</i>]) Client Tree	25 4.0	Removal Permit Required
064 White Ash (<i>Fraxinus americana</i>) Client Tree	50 12.0	Permit (24-206574) - Exempt
065 White Ash (<i>Fraxinus americana</i>) Client Tree	49 10.0	Permit (24-206574) - Exempt
066 White Ash (<i>Fraxinus americana</i>) Client Tree	45 10.0	Permit (24-206574) - Exempt
086 White Ash (<i>Fraxinus americana</i>) Client Tree	11 2.0	Exempt (size)

Section 4		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
001 Austrian Pine (<i>Pinus nigra</i>) Client Tree	50 10.0	Removal Permit Required
002 Austrian Pine (<i>Pinus nigra</i>) Client Tree	42 8.0	Removal Permit Required
003 Austrian Pine (<i>Pinus nigra</i>) Client Tree	29 6.0	Removal Permit Required
004 Austrian Pine (<i>Pinus nigra</i>) Client Tree	40 8.0	Removal Permit Required
005 Austrian Pine (<i>Pinus nigra</i>) Client Tree	35 8.0	Removal Permit Required
006 Austrian Pine (<i>Pinus nigra</i>) Client Tree	35 8.0	Removal Permit Required
007 Austrian Pine (<i>Pinus nigra</i>) Client Tree	31 8.0	Removal Permit Required
008 Austrian Pine (<i>Pinus nigra</i>) Client Tree	47 10.0	Removal Permit Required

Section 4		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
009 Austrian Pine (<i>Pinus nigra</i>) Client Tree	37 8.0	Removal Permit Required
010 Austrian Pine (<i>Pinus nigra</i>) Client Tree	34 8.0	Removal Permit Required
011 Austrian Pine (<i>Pinus nigra</i>) Client Tree	40 8.0	Removal Permit Required
012 Austrian Pine (<i>Pinus nigra</i>) Client Tree	42 8.0	Removal Permit Required
013 Austrian Pine (<i>Pinus nigra</i>) Client Tree	35 8.0	Removal Permit Required
014 Austrian Pine (<i>Pinus nigra</i>) Client Tree	54 12.0	Removal Permit Required
015 Red Maple (<i>Acer rubrum</i>) Client Tree	41 8.0	Removal Permit Required
016 Red Maple (<i>Acer rubrum</i>) Client Tree	29 6.0	Removal Permit Required
085 London Planetree (<i>Platanus acerifolia</i>) Client Tree	23 8.0	Removal Permit Required
087 Lombardy Poplar (<i>Populus nigra</i>) Client Tree	23 6.0	Removal Permit Required
901 Freeman Maple (<i>Acer freemanii</i>) Neighbor Tree	30 4.0	Protected (well removed from site clearing)
902 Freeman Maple (<i>Acer freemanii</i>) Neighbor Tree	30 4.0	Protected (well removed from site clearing)
903 Freeman Maple (<i>Acer freemanii</i>) Neighbor Tree	25 3.0	Protected (well removed from site clearing)
904 Freeman Maple (<i>Acer freemanii</i>) Neighbor Tree	30 4.0	Protected (well removed from site clearing)

Section 5		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
048 Norway Maple (<i>Acer platanoides</i>) Client Tree	33 12.0	Removal Permit Required
049 Austrian Pine (<i>Pinus nigra</i>) Client Tree	37 10.0	Removal Permit Required
050 Austrian Pine (<i>Pinus nigra</i>) Client Tree	28 6.0	Removal Permit Required
051 Crack Willow (<i>Salix fragilis</i>) Client Tree	35 8.0	Removal Permit Required
052 Austrian Pine (<i>Pinus nigra</i>) Client Tree	45 8.0	Removal Permit Required
053 Crack Willow (<i>Salix fragilis</i>) Client Tree	68 16.0	Removal Permit Required
054 Crack Willow (<i>Salix fragilis</i>) Client Tree	55 14.0	Removal Permit Required
055 Crack Willow (<i>Salix fragilis</i>) Client Tree	43 10.0	Removal Permit Required
056 Crack Willow (<i>Salix fragilis</i>) Client Tree	69 14.0	Removal Permit Required
069 Norway Maple (<i>Acer platanoides</i>) Client Tree	30 8.0	Removal Permit Required
070 Red Elm (<i>Ulmus rubra</i>) Client Tree	10 4.0	Exempt (size)
071 Boxelder (<i>Acer negundo</i>) Client Tree	23 6.0	Removal Permit Required
072 Red Elm (<i>Ulmus rubra</i>) Client Tree	19 8.0	Removal Permit Required
073 White Ash (<i>Fraxinus americana</i>) Client Tree	4 6.0	Exempt
074 White Ash (<i>Fraxinus americana</i>) Client Tree	17 6.0	Possibly Exempt
075 White Ash (<i>Fraxinus americana</i>) Client Tree	10 4.0	Exempt
076 Crack Willow (<i>Salix fragilis</i>) Client Tree	34 10.0	Removal Permit Required
134 Aspen/poplar Species (<i>Populus spp</i>) Client Tree	35 12.0	Removal Permit Required
135 Boxelder (<i>Acer negundo</i>) Client Tree	48 14.0	Removal Permit Required
136 Boxelder (<i>Acer negundo</i>) Client Tree	18 6.0	Removal Permit Required
137 Boxelder (<i>Acer negundo</i>) Client Tree	30 8.0	Removal Permit Required

Section 5		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
138 Boxelder (Acer negundo) Client Tree	23 8.0	Removal Permit Required
139 White Ash (Fraxinus americana) Client Tree	30 8.0	Possibly Exempt
140 Boxelder (Acer negundo) Client Tree	47 14.0	Removal Permit Required
141 Crack Willow (Salix fragilis) Client Tree	120 30.0	Removal Permit Required
142 Siberian Elm (Ulmus pumila) Client Tree	50 16.0	Removal Permit Required
143 Boxelder (Acer negundo) Client Tree	35 8.0	Removal Permit Required
144 Red Elm (Ulmus rubra) Client Tree	22 8.0	Removal Permit Required
145 Red Elm (Ulmus rubra) Client Tree	26 6.0	Removal Permit Required
146 Boxelder (Acer negundo) Client Tree	20 6.0	Removal Permit Required
147 Crack Willow (Salix fragilis) Client Tree	60 16.0	Removal Permit Required
148 Red Elm (Ulmus rubra) Client Tree	25 6.0	Removal Permit Required
149 White Ash (Fraxinus americana) Client Tree	40 12.0	Possibly Exempt

Note: This Section also includes approximately 233 Buckthorn (invasive species) with DBH between 8cm and 15cm. These should be exempt from removal permit.

Section 6		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
077 Crack Willow (<i>Salix fragilis</i>) Client Tree	38 10.0	Removal Permit Required
078 Crack Willow (<i>Salix fragilis</i>) Client Tree	60 14.0	Removal Permit Required
079 Crack Willow (<i>Salix fragilis</i>) Client Tree	14 4.0	Exempt (size)
080 Crack Willow (<i>Salix fragilis</i>) Client Tree	47 8.0	Removal Permit Required
081 Sumac Species (<i>Rhus spp</i>) Client Tree	13 6.0	Exempt (size)

Section 7		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
082 Lombardy Poplar (<i>Populus nigra</i>) Client Tree	14 2.0	Exempt (size)
083 Lombardy Poplar (<i>Populus nigra</i>) Client Tree	14 4.0	Exempt (size)
084 Crack Willow (<i>Salix fragilis</i>) Client Tree	10 2.0	Exempt (size)
121 Black Walnut (<i>Juglans nigra</i>) Client Tree	30 12.0	Removal Permit Required
122 Black Walnut (<i>Juglans nigra</i>) Client Tree	48 12.0	Removal Permit Required
123 White Ash (<i>Fraxinus americana</i>) Client Tree	30 8.0	Possibly Exempt
124 White Ash (<i>Fraxinus americana</i>) Client Tree	15 4.0	Possibly Exempt
125 Norway Maple (<i>Acer platanoides</i>) Client Tree	24 8.0	Removal Permit Required
126 Boxelder (<i>Acer negundo</i>) Client Tree	23 8.0	Removal Permit Required
127 Aspen/poplar Species (<i>Populus spp</i>) Client Tree	90 16.0	Removal Permit Required
128 Aspen/poplar Species (<i>Populus spp</i>) Client Tree	36 8.0	Removal Permit Required
129 Common Pear (<i>Pyrus communis</i>) Client Tree	33 8.0	Removal Permit Required
130 American Basswood (<i>Tilia americana</i>) Client Tree	24 6.0	Removal Permit Required

Section 7		
Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal
131 Hawthorn Species (Crataegus spp) Client Tree	24 6.0	Removal Permit Required
132 Hawthorn Species (Crataegus spp) Client Tree	22 6.0	Removal Permit Required
133 White Oak (Quercus alba) Client Tree	40 10.0	Removal Permit Required
150 Norway Maple (Acer platanoides) Client Tree	20 6.0	Removal Permit Required

Note: Section 7 also includes approximately 137 Buckthorn (invasive species) with DBH between 8cm and 15cm. These should be exempt from removal permit.

GENERAL TREE PROTECTION GUIDELINES

Except as specifically stated in this report, all tree protection policies and zones are to be maintained in accordance with Town of Oakville Tree Protection Policy and Specifications.

Tree Protection Zones

All tree protection zones are to be implemented as shown in the arborist drawing. Tree protection barriers are shown and to be constructed not closer than specified in the table: Appendix I – Tree Inventory – (Minimum TPZ radius). Where practicable (and this cannot be anticipated in the drawing phase), these barriers may be increased in size up to the Recommended TPZ radius as described in that same table.

No construction activity including grade changes, surface treatments or excavations of any kind is permitted within the area identified on the plan as a Tree Protection Zone (TPZ). No root cutting is permitted. No storage of materials or fill is permitted within the TPZ. The areas identified as Tree Protection Zones must remain undisturbed at all times.

Tree Protection Barriers

Tree protection barriers should be constructed of solid plywood or equivalent, to a height of 1.2m around the front and sides of the construction envelope. In areas where visibility is of concern poly fencing may be used as a suitable tree protection-hoarding substitute. This will provide adequate tree protection while allowing for ample visibility.

All tree protection hoarding must be erected as shown in the attached arborist sketch TPR – 101.

General Note

Prior to the commencement of any site activity the tree protection barriers specified herein must be installed and written notice provided to Town of Oakville, Forestry Department. The tree protection barriers must remain in effective condition until all site activities including landscaping are complete. A sign as specified in Tree Protection Policy and Specification for Construction Near Trees must be attached to all sides of the barrier and at regular intervals for lengthy barriers. Written notice must be provided to Town of Oakville prior to the removal of the tree protection barriers.

Arboricultural Work

Any roots or branches extending beyond the tree protection zones indicated in this report and its associated drawings, which require pruning, must be pruned by a Qualified Arborist or other tree professional as approved by Town of Oakville. All pruning of tree roots and branches must be in accordance with good arboricultural standards. The Arborist must contact the Town of Oakville no less than 48 hours prior to conducting any specified work.

APPENDIX I – TREE INVENTORY

Tree Num	Botanical/ Common Name Owner	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
001	Pinus nigra Austrian Pine Client Tree	50	10.0	3.25	0.00	4	4	4	80% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
002	Pinus nigra Austrian Pine Client Tree	42	8.0	3.21	0.00	4	4	4	80% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
003	Pinus nigra Austrian Pine Client Tree	29	6.0	2.54	0.00	3	3	3	60% - Fair	Located in slightly crowded group of Austrian pines. A bit thin from occlusion w some DW and a slight bow	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
004	Pinus nigra Austrian Pine Client Tree	40	8.0	3.20	0.00	3	4	4	72% - Good	Located in slightly crowded group of Austrian pines - some minor DW	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
005	Pinus nigra Austrian Pine Client Tree	35	8.0	3.18	0.00	3	4	4	72% - Good	Located in slightly crowded group of Austrian pines - some minor DW	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
006	Pinus nigra Austrian Pine Client Tree	35	8.0	3.18	0.00	3	4	4	72% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
007	Pinus nigra Austrian Pine Client Tree	31	8.0	3.16	0.00	3	3	2	51% - Fair	Located in slightly crowded group of Austrian pines - poor form - included union of leaders	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
008	Pinus nigra Austrian Pine Client Tree	47	10.0	3.24	0.00	3	4	4	72% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
009	Pinus nigra Austrian Pine Client Tree	37	8.0	3.18	0.00	3	3	3	60% - Fair	Located in slightly crowded group of Austrian pines - deadwood	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
010	Pinus nigra Austrian Pine Client Tree	34	8.0	3.17	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
011	Pinus nigra Austrian Pine Client Tree	40	8.0	3.20	0.00	4	3	3	65% - Good	Located in slightly crowded group of Austrian pines - crowded union of leaders w odd form	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
012	Pinus nigra Austrian Pine Client Tree	42	8.0	3.21	0.00	4	4	4	80% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition				Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status	
						Health (0-5)	Structure (0-5)	Form (0-5)	Overall %		Comments	mTPZ	CRZ (Alt TPZ)			Canopy
013	Pinus nigra Austrian Pine Client Tree	35	8.0	3.18	0.00	4	4	4	80% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
014	Pinus nigra Austrian Pine Client Tree	54	12.0	3.87	0.00	4	4	4	80% - Good	Located in slightly crowded group of Austrian pines	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
015	Acer rubrum Red Maple Client Tree	41	8.0	3.20	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
016	Acer rubrum Red Maple Client Tree	29	6.0	2.54	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
017	Acer platanoides Norway Maple Client Tree	26	4.0	2.53	0.00	2	2	2	40% - Poor	Declining condition w dieback from top occurring. DW and Decay through canopy - Removal recommended due to condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
018	Betula pendula European White Birch Client Tree	19	8.0	2.50	0.00	4	4	4	80% - Good	Masons weeping birch	Not Rated	100.00 %	100.00%	99.64%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
019	Acer platanoides Norway Maple Client Tree	35	6.0	3.18	0.00	3	3	3	60% - Fair	DW and minor decay sites through tree - appears stressed with signs of poor upper canopy growth	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
020	Acer platanoides Norway Maple Client Tree	36	8.0	3.18	0.00	3	3	3	60% - Fair	DW and minor decay sites through tree - appears stressed with signs of poor upper canopy growth	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
021	Carpinus betulus European Hornbeam Client Tree	39	4.0	3.20	0.00	3	3	4	65% - Good	Deadwood north side	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
022	Carpinus betulus European Hornbeam Client Tree	37	6.0	3.18	0.00	3	3	3	60% - Fair	Deadwood north side Crack with fluxing south side	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
023	Acer platanoides Norway Maple Client Tree	34	6.0	3.17	0.00	3	3	3	60% - Fair	DW and minor decay sites through tree - appears stressed with signs of poor upper canopy growth	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
024	Acer platanoides Norway Maple Client Tree	32	6.0	3.16	0.00	2	3	3	51% - Fair	DW and decay sites through tree - stressed with signs of poor upper canopy growth and loss of viability of some branches	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
025	Acer platanoides Norway Maple Client Tree	28	6.0	2.54	0.00	3	3	3	60% - Fair	DW and minor decay sites through tree - appears stressed with signs of poor upper canopy growth	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
026	Acer saccharum Sugar Maple Client Tree	59	14.0	3.90	0.00	1	2	2	30% - Poor	Dying back from the top. 30-50% dead. Declining condition and decay throughout dead branches - Recommended for removal due to condition	Not Rated	100.00 %	100.00%	88.03%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
027	Acer platanoides Norway Maple Client Tree	26	8.0	2.53	0.00	3	3	3	60% - Fair	DW and minor decay sites through tree - appears stressed with signs of poor growth	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
028	Acer saccharum Sugar Maple Client Tree	86	16.0	5.83	0.00	2	1	3	33% - Poor	Dying back in upper canopy and declining condition - past failures of primary/secondary branches. Decay throughout. Recommend removal due to declining conditions and structural defects.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
029	Populus nigra Lombardy Poplar Client Tree	22	8.0	2.51	0.00	3	3	3	60% - Fair	Multistem poplar growth - fair condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
030	Acer platanoides Norway Maple Client Tree	20	6.0	2.50	0.00	3	4	4	72% - Good	Some signs of stress but otherwise good condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
031	Pinus nigra Austrian Pine Client Tree	40	8.0	3.20	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
032	Pinus nigra Austrian Pine Client Tree	36	8.0	3.18	0.00	4	4	3	72% - Good	Stunted (topped)	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
033	Pinus nigra Austrian Pine Client Tree	29	8.0	2.54	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
034	Pinus nigra Austrian Pine Client Tree	24	4.0	2.52	0.00	0	2	0	0% - Dead/Dying	Dead Tree - recommended for removal	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
035	Pinus nigra Austrian Pine Client Tree	28	6.0	2.54	1.27	4	4	3	72% - Good	crowded with neighboring pine and some lower DW, but otherwise good condition	Moderate - Good	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
036	Pinus nigra Austrian Pine Client Tree	35	8.0	3.18	1.59	4	4	4	80% - Good		Moderate - Good	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
037	Ulmus pumila Siberian Elm Client Tree	27	8.0	2.54	1.27	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
038	Pinus nigra Austrian Pine Client Tree	50	10.0	3.25	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition				Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)	Overall %			mTPZ	CRZ (Alt TPZ)	Canopy		
039	Pinus nigra Austrian Pine Client Tree	27	6.0	2.54	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
040	Acer platanoides Norway Maple Client Tree	29	8.0	2.54	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
041	Pinus nigra Austrian Pine Client Tree	37	8.0	3.18	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
042	Pinus nigra Austrian Pine Client Tree	40	8.0	3.20	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
043	Acer platanoides Norway Maple Client Tree	53	6.0	3.86	0.00	1	2	2	30% - Poor	Hollows with decay. Upper canopy dieback/decline - past failures. Recommended for removal due to condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
044	Pinus nigra Austrian Pine Client Tree	35	8.0	3.18	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
045	Pinus nigra Austrian Pine Client Tree	38	10.0	3.19	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
046	Pinus nigra Austrian Pine Client Tree	31	8.0	3.16	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
047	Pinus nigra Austrian Pine Client Tree	36	10.0	3.18	0.00	4	4	4	80% - Good	Wire around trunk.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
048	Acer platanoides Norway Maple Client Tree	33	12.0	3.16	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
049	Pinus nigra Austrian Pine Client Tree	37	10.0	3.18	0.00	4	4	3	72% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
050	Pinus nigra Austrian Pine Client Tree	28	6.0	2.54	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
051	Salix fragilis Crack Willow Client Tree	35	8.0	3.18	0.00	3	3	4	65% - Good	Some deadwood and minor decay sites but otherwise fair condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
052	Pinus nigra Austrian Pine Client Tree	45	8.0	3.22	0.00	4	4	3	72% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
053	Salix fragilis Crack Willow Client Tree	68	16.0	4.54	0.00	3	3	4	65% - Good	Some deadwood and minor decay sites but otherwise fair condition	Not Rated	100.00 %	100.00%	93.39%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
054	Salix fragilis Crack Willow Client Tree	55	14.0	3.88	0.00	3	3	3	60% - Fair	Some deadwood and minor decay sites but otherwise fair condition	Not Rated	100.00 %	100.00%	94.13%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
055	Salix fragilis Crack Willow Client Tree	43	10.0	3.22	0.00	3	3	3	60% - Fair	Some deadwood and minor decay sites but otherwise fair condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
056	Salix fragilis Crack Willow Client Tree	69	14.0	4.54	0.00	3	3	3	60% - Fair	Some deadwood and minor decay sites but otherwise fair condition	Not Rated	100.00 %	100.00%	99.34%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
057	Fraxinus americana White Ash Client Tree	15	6.0	2.48	0.00	3	3	3	60% - Fair	Young ash in fair condition at this time	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
058	Populus canadensis [deltooides x nigra] Carolina Poplar Client Tree	11	6.0	2.46	0.00	3	4	3	65% - Good	Fair-good condition - growing among phragmites	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
059	Populus canadensis [deltooides x nigra] Carolina Poplar Client Tree	10	4.0	2.45	0.00	3	4	3	65% - Good	Fair-good condition - growing among phragmites	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
060	Populus canadensis [deltooides x nigra] Carolina Poplar Client Tree	21	6.0	2.50	0.00	3	3	3	60% - Fair	Fair condition although location is poor and appears stressed	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
061	Populus canadensis [deltooides x nigra] Carolina Poplar Client Tree	25	4.0	2.52	0.00	3	3	3	60% - Fair	Fair condition - growing in poor location	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
062	Populus canadensis [deltooides x nigra] Carolina Poplar Client Tree	20	6.0	2.50	0.00	3	3	3	60% - Fair	Fair condition - although appears somewhat stressed over past season	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
063	Robinia pseudoacacia Black Locust Client Tree	27	8.0	2.54	0.00	3	3	3	60% - Fair	Fair condition - growing in poor location however	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
064	Fraxinus americana White Ash Client Tree	50	12.0	3.25	0.00	0	1	0	0% - Dead/Dying	Dead Ash - Recommended for removal	Not Rated	100.00%	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
065	Fraxinus americana White Ash Client Tree	49	10.0	3.24	0.00	0	1	0	0% - Dead/Dying	Dead Ash - Recommended for removal	Not Rated	100.00%	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
066	Fraxinus americana White Ash Client Tree	45	10.0	3.22	0.00	0	1	0	0% - Dead/Dying	Dead Ash - Recommended for removal	Not Rated	100.00%	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
067	Ulmus rubra Red Elm Client/Neighbor Shared Ownership Tree	10	4.0	2.45	0.00	4	4	4	80% - Good	Good condition although growing in poor location directly abutting fence	Not Rated	63.00%	75.42%	65.86%	In Zone: Section 2. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
068	Ulmus rubra Red Elm Client/Neighbor Shared Ownership Tree	10	4.0	2.45	0.00	4	4	4	80% - Good	Good condition although growing in poor location directly abutting fence	Not Rated	49.76%	49.52%	49.71%	Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
069	Acer platanoides Norway Maple Client Tree	30	8.0	2.55	0.00	4	4	4	80% - Good		Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
070	Ulmus rubra Red Elm Client Tree	10	4.0	2.45	0.00	3	4	4	72% - Good		Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
071	Acer negundo Boxelder Client Tree	23	6.0	2.52	0.00	4	4	4	80% - Good		Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
072	Ulmus rubra Red Elm Client Tree	19	8.0	2.50	0.00	4	4	4	80% - Good		Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
073	Fraxinus americana White Ash Client Tree	14	6.0	2.47	0.00	4	4	4	80% - Good		Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
074	Fraxinus americana White Ash Client Tree	17	6.0	2.48	0.00	4	4	4	80% - Good	Appears healthy at this time - Adjacent small size group of ash (additional small trees) extends into woodlot east. All 5-7 cm	Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
075	Fraxinus americana White Ash Client Tree	10	4.0	2.45	0.00	3	3	2	51% - Fair	Under tree 49 - trunk slightly twisted/kinked and defect on trunk	Not Rated	100.00%	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
076	Salix fragilis Crack Willow Client Tree	34	10.0	3.17	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
077	Salix fragilis Crack Willow Client Tree	38	10.0	3.19	0.00	4	2	4	60% - Fair	All regrowth from downed limb. Collapsed codominant of tree 78	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 6. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
078	Salix fragilis Crack Willow Client Tree	60	14.0	3.90	0.00	4	3	4	72% - Good	Decay and some deadwood present - otherwise fair condition	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 6. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
079	Salix fragilis Crack Willow Client Tree	14	4.0	2.47	0.00	4	4	3	72% - Good	Understory to other Willow in area	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 6. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
080	Salix fragilis Crack Willow Client Tree	47	8.0	3.24	0.00	4	3	4	72% - Good	Some decay sites present	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 6. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
081	Rhus spp Sumac Species Client Tree	13	6.0	2.46	0.00	4	4	4	80% - Good	Sumac - understory in area of willows	Not Rated	73.21%	92.65%	69.18%	In Zone: Section 6. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
082	Populus nigra Lombardy Poplar Client Tree	14	2.0	2.47	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
083	Populus nigra Lombardy Poplar Client Tree	14	4.0	2.47	0.00	4	4	4	80% - Good	Located abutting C/L fence	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
084	Salix fragilis Crack Willow Client Tree	10	2.0	2.45	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
085	Platanus acerifolia London Planetree Client Tree	23	8.0	2.52	0.00	4	4	4	80% - Good	Located abutting C/L fence	Not Rated	100.00 %	100.00%	96.03%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
086	Fraxinus americana White Ash Client Tree	11	2.0	2.46	0.00	2	2	2	40% - Poor	Growing through fence.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 3. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
087	Populus nigra Lombardy Poplar Client Tree	23	6.0	2.52	0.00	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 4. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
088	Ulmus pumila Siberian Elm Client Tree	10	2.0	2.45	0.00	2	2	2	40% - Poor	Bark beetle and poor condition - removal recommended due to condition	Not Rated	70.94%	89.24%	95.60%	In Zone: Section 1. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition				Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)	Overall %			mTPZ	CRZ (Alt TPZ)	Canopy		
121	Juglans nigra Black Walnut Client Tree	30	12.0	2.55	1.27	3	3	3	60% - Fair		Poor	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
122	Juglans nigra Black Walnut Client Tree	48	12.0	3.24	1.62	4	4	4	80% - Good		Poor	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
123	Fraxinus americana White Ash Client Tree	30	8.0	2.55	1.27	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
124	Fraxinus americana White Ash Client Tree	15	4.0	2.48	1.24	3	3	3	60% - Fair	One stem dead. Decaying.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (not significant size - within zone)
125	Acer platanoides Norway Maple Client Tree	24	8.0	2.52	1.26	3	4	4	72% - Good		Moderate - Good	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
126	Acer negundo Boxelder Client Tree	23	8.0	2.52	1.26	4	4	4	80% - Good		Good	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
127	Populus spp Aspen/poplar Species Client Tree	90	16.0	5.85	2.92	3	4	3	65% - Good	Some dieback. Deadwood in canopy.	Good	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
128	Populus spp Aspen/poplar Species Client Tree	36	8.0	3.18	1.59	4	4	4	80% - Good		Good	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
129	Pyrus communis Common Pear Client Tree	33	8.0	3.16	1.58	3	4	3	65% - Good	Deadwood. Dieback	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
130	Tilia americana American Basswood Client Tree	24	6.0	2.52	1.26	4	4	4	80% - Good		Poor - Moderate	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
131	Crataegus spp Hawthorn Species Client Tree	24	6.0	2.52	1.26	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
132	Crataegus spp Hawthorn Species Client Tree	22	6.0	2.51	1.25	4	2	2	48% - Fair	Breakage.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
133	Quercus alba White Oak Client Tree	40	10.0	3.20	1.60	3	3	3	60% - Fair	Dieback. Deadwood in canopy. Loc. Est. / dbh est. Not accessible. App. 10m S of recorded pos.	Moderate	100.00 %	100.00%	100.00%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition			Overall %	Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)				mTPZ	CRZ (Alt TPZ)	Canopy		
134	Populus spp Aspen/poplar Species Client Tree	35	12.0	3.18	1.59	4	4	4	80% - Good		Good	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
135	Acer negundo Boxelder Client Tree	48	14.0	3.24	1.62	4	2	3	55% - Fair	Sounds hollow. 1 stem (not measured) had failed.	Good	75.67%	95.94%	62.17%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
136	Acer negundo Boxelder Client Tree	18	6.0	2.49	1.25	4	4	2	60% - Fair	Leans to west	Good	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
137	Acer negundo Boxelder Client Tree	30	8.0	2.55	1.27	4	4	4	80% - Good		Good	97.42%	100.00%	83.60%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
138	Acer negundo Boxelder Client Tree	23	8.0	2.52	1.26	4	4	4	80% - Good		Good	83.97%	100.00%	72.18%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
139	Fraxinus americana White Ash Client Tree	30	8.0	2.55	1.27	4	4	4	80% - Good		Not Rated	71.07%	89.55%	63.59%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
140	Acer negundo Boxelder Client Tree	47	14.0	3.24	1.62	4	4	4	80% - Good	Clump. 4m south of rec pos. Not tagged	Good	91.91%	100.00%	71.08%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
141	Salix fragilis Crack Willow Client Tree	120	30.0	7.80	3.90	4	2	4	60% - Fair	Huge willow near SE corner of prop.	Moderate - Good	55.85%	61.64%	45.82%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
142	Ulmus pumila Siberian Elm Client Tree	50	16.0	3.25	1.62	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
143	Acer negundo Boxelder Client Tree	35	8.0	3.18	1.59	4	4	4	80% - Good		Good	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
144	Ulmus rubra Red Elm Client Tree	22	8.0	2.51	1.25	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
145	Ulmus rubra Red Elm Client Tree	26	6.0	2.53	1.26	4	4	4	80% - Good		Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
146	Acer negundo Boxelder Client Tree	20	6.0	2.50	1.25	4	3	4	72% - Good	Bark sloughing on west side.	Good	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)

Tree Num	Botanical/ Common Name	DBH (cm)	Canopy Dia (M)	mTPZ (M)	CRZ (M)	Condition				Comments	Construct Tolerance Index (1-7)	Total Encroachments %			Construction Comments	Status
						Health (0-5)	Structure (0-5)	Form (0-5)	Overall %			mTPZ	CRZ (Alt TPZ)	Canopy		
147	Salix fragilis Crack Willow Client Tree	60	16.0	3.90	1.95	4	4	4	80% - Good		Moderate - Good	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
148	Ulmus rubra Red Elm Client Tree	25	6.0	2.52	1.26	4	4	4	80% - Good	Not accessible. Tree is 6m east of loc.	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
149	Fraxinus americana White Ash Client Tree	40	12.0	3.20	1.60	4	4	4	80% - Good	Clump of 8 @ 15cm	Not Rated	100.00 %	100.00%	100.00%	In Zone: Section 5. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
150	Acer platanoides Norway Maple Client Tree	20	6.0	2.50	1.25	4	4	4	80% - Good	Not accessible. 5m west of loc.	Moderate - Good	79.34%	99.53%	74.77%	In Zone: Section 7. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended.	Remove (within zone of construction)
901	Acer freemanii Freeman Maple Neighbor Tree	30	8.0	2.55	1.28	4	4	4	80% - Good	Not accessible	Good	0	0	0	Well removed from site activity. Protected by existing line fence.	Protected
902	Acer freemanii Freeman Maple Neighbor Tree	30	8.0	2.55	1.28	4	4	4	80% - Good	Not accessible	Good	0	0	0	Well removed from site activity. Protected by existing line fence.	Protected
903	Acer freemanii Freeman Maple Neighbor Tree	25	6.0	2.55	1.28	4	4	4	28% - Poor	Not accessible Appears very weak and stunted.	Good	0	0	0	Well removed from site activity. Protected by existing line fence.	Protected
904	Acer freemanii Freeman Maple Neighbor Tree	30	8.0	2.55	1.28	4	4	4	80% - Good	Not accessible	Good	0	0	0	Well removed from site activity. Protected by existing line fence.	Protected

APPENDIX II – ARBORIST’S DECLARATIONS

This report represents a fair and accurate assessment of the number, type, size, and condition of the tree(s) on the aforementioned property.

Certificate of Performance

I, Shayne Plowman, certify that:

- I have personally inspected the trees and the property referred to in this report and have stated my findings accurately. The extent of the evaluation or appraisal is stated in the attached report and the Terms of Assignment.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved.
- The analysis, opinions, and conclusions stated herein are my own and are based on current scientific procedures and facts.
- My analysis, opinions, and conclusions were developed and this report has been prepared in accordance with commonly accepted arboricultural practices.
- No one provided significant professional assistance to me, except as indicated within this report.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.
- I further certify that I am a member in good standing of the International Society of Arboriculture, and that I carry the designation of ISA Certified Arborist ON-0425A I have been involved in the field of Arboriculture in a full-time capacity for a period of more than 30 years.



Shayne Plowman

ISA Certified Arborist: ON-0425A

30 October 2024

Assumptions and Limiting Conditions

- Any legal description provided to the consultant is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as free and clear, under responsible ownership and competent management.
- Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
- The consultant shall not be required to give testimony or attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
- Loss or alteration of any part of this report invalidates the entire report.
- Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written consent or verbal consent of the consultant.
- Neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant particularly as to value conclusions, identity of the consultant, or any reference to any professional society or institute or to any initialed designations conferred upon the consultant as stated in his qualifications.
- This report and values expressed herein represent the opinion of the consultant, and the consultant's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- Sketches, diagrams, graphs, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys.
- Unless expressed otherwise:
 1. Information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and
 2. The inspection is limited to visual examination of accessible items without dissection, excavation, probing or cutting.
 3. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Disclaimer

This report is based upon Land Survey drawings (with tree locations marked) provided by the client and prepared by a professional Land Surveyor. No grading information was provided at the time of preparation of this report.

The arborist is not a professional Land Surveyor, and as such can make no claim as to the accuracy of the provided drawings.

30 October 2024

A handwritten signature in black ink, appearing to read 'S. Plowman', with a stylized flourish at the end.

Shayne Plowman

ISA Certified Arborist: ON-0425A

APPENDIX III – METHODOLOGY

Location

Unless otherwise specified, this Tree Survey is based upon Land Survey drawings for tree locations. Where additional trees are located, by the arborist, the locations of these trees are approximate only, to within 30cm. This dilution of precision is sufficient for most Tree Preservation requirements but should not be used to determine ownership of the subject tree. Additionally, where additional trees are located by GPS positioning (GIS) although without use of Differential GPS equipment, positional accuracy is limited to 3-5m (not sufficient for most tree preservation calculations).

Measurements

DBH (D140/D150)

The Tree Survey (inventory and location) will encompass any trees on the client site having a DBH of 10cm or greater; trees of any size on adjacent municipal lands and situated within 6m of the client site, or zone of construction; trees having a DBH of 10cm or greater on adjacent private lands and situated within 6m of the client site. Trunk diameters are measured using a diameter tape and rounded upwards to the nearest centimeter. In the case of a multi-stemmed tree, nominal DBH will be calculated as the square root of the sum of the squares of the stem diameters. In the case of hedges, the nominal DBH will be considered to be the diameter of the largest tree.

Canopy

Canopy diameters are representative of the greatest distance from canopy edge to trunk, and should be accurate to ± 50 cm, unless otherwise specified. In the case of hedges, the nominal canopy radius will be considered to be the greatest extent perpendicular to the line of the hedge.

Other Measurements

Where applicable, Height (measured by clinometer and accounting for grade), Trunk Lean (measured by angle protractor), with compass direction, and Canopy Offset (distance and compass direction), may also be recorded for some or all subject trees.

Evaluation of Tree Condition

All trees are evaluated based on Health, Structure and Form. These individual ratings are then combined into one overall Condition Rating. All ratings are based on criteria as shown below.

RATING	HEALTH	STRUCTURE	FORM
0	Dead	Dead	Dead
1 (Very Poor)	Appears to be dying and in the last Sections of life. Little live foliage	Single or multiple severe defects. Failure is probable or imminent.	Visually unappealing. Provides little or no function in the landscape
2 (Poor)	Unhealthy and declining in appearance. Extensive twig or branch dieback.	Single serious or multiple significant defects. Recent changes in orientation. Uncorrectable. Failure may occur at any time.	Largely asymmetrical or abnormal. Detracts from intended use or aesthetics to a significant degree.
3 (Fair)	Reduced vigor. Damage due to insects or diseases may be significant, but unlikely to be fatal. Dieback, defoliation, or dead branches may comprise up to 50% of the crown.	Single defect of significant or multiple moderate defects. Defects are not practical to correct or would require multiple treatments over several years.	Major asymmetries or deviations from either species norms or intended use. Function or aesthetics are compromised.
4 (Good)	Normal vigor. No significant damage from insects or diseases. Twig dieback, defoliation or discoloration is minor.	Well-developed structure. Defects are minor and can be corrected.	Minor asymmetries or deviations from species norms. Mostly consistent with intended use. Function and aesthetics are not compromised.
5 (Excellent)	High vigor and nearly perfect health. Little or no twig dieback, defoliation, or discoloration.	Nearly ideal and free from defects.	Nearly ideal for the species. Consistent with intended use.

Unless otherwise specified, tree condition is determined by Limited Visual Assessment (ground based), and is determined on site, as separate Health, Structural, and Form score according to the above ratings as per Guide for Plant Appraisal 10th Edition. Overall Condition Rating is calculated as the Harmonic Mean of the Health, Structure and Form Ratings.

Appraisal

Where required, some or all of the inventoried trees will be Appraised (monetarily valued). All appraisals are conducted in accordance with the Guide for Plant Appraisal 10th Edition - ISBN 978-1-943378-02-9.

Assessment of TPZ Encroachment and Anticipated Impact

All trees are evaluated for root impact potential where a TPZ encroachment is proposed. To provide an anticipated impact, the following assumptions are made:

1. Unless otherwise specified, root distribution on all sides of the tree is equal. For purposes of root assessment, the rooting area is assumed to be an equally distributed disc of rooting around the tree.
2. Unless otherwise specified, rooting profile depth is anticipated to be 1.2m. as is consistent with the rooting profile of trees in average soil profile conditions.
3. Encroachment is calculated using Area x Area method unless otherwise specified (such as for bisecting trenches).
4. Anticipated Root Impact takes in to account the area of encroachment, depth of excavations/fill required, and any mitigating factors (such as a limited rooting profile – e.g. foundation preventing rooting beyond wall extent) to determine an expected root mass injury to the tree.

From the anticipated root mass impact, a designation regarding the impact to botanical health is assigned. This is separated in to four categories as follows:

1. **0.5% - 10% Anticipated Impact: Minimal Impact**
 - No Significant Dieback anticipated, however, some branch tip/branchlet dieback may occur in impacts approaching 10%
 - Minimal reduction in growth rate through recovery post impact (1-2 seasons)
 - Sensitive Species may have a minor increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
 - No long term detriment to the botanical health, or structural integrity of the tree. The tree is expected to fully recover from injury.

2. **11% - 19% Anticipated Impact: Moderate Impact**
 - Branch Dieback anticipated, however, it is expected to be minimal to moderate, affecting no greater than 15% of the total canopy area
 - Reduction in growth rate through recovery of post impact (2 - 5 seasons)
 - Reduced Canopy Density
 - Increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
 - No significant detriment to the function of the tree anticipated long term, however, botanical health will receive impact for multiple seasons.
 - No Impact to structural integrity is expected
 - The tree is expected to recover from injury to its' preconstruction impact health rating (approximately), however, monitoring is recommended post construction to provide treatment through recovery including (but not limited to): fertilization, treatment of disorders as may arise (abiotic/biotic), compaction alleviation (where applicable), maintenance pruning, etc.
3. **20% - 25% Anticipated Impact: Major Impact**
 - Branch Dieback anticipated to be major and significant but tolerable with after care, affecting no greater than 25% of the total canopy area
 - Significantly reduced growth rate through recovery post impact (>5 seasons)
 - Reduced Canopy Density
 - Increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
 - Long term (>5yr) detriment to the function of the tree anticipated. Botanical health will receive impact for multiple seasons, if not be impacted permanently.
 - The tree is expected to recover from injury and tolerate the impact, however, it is expected that it will be reduced in botanical health as compared to its' preconstruction impact health rating. Additionally, form will be permanently impacted by either dieback or required pruning. Monitoring is recommended post construction to provide treatment through recovery and ensure survival including (but not limited to): fertilization, treatment of disorders as may arise (abiotic/biotic), compaction alleviation (where applicable), maintenance pruning/deadwood removal (as required), etc.
 - Specialized fertilization or insect/disease treatments may be required due to total root mass injury through recovery, such as direct stem injection.
 - Note: Where Major impact trees are to be preserved, no significant impact to stability of the root plate is expected to occur.
4. **> 25% Anticipated Impact or Stability Impact to Root Plate: Critical Impact – Tree to be Removed due to Construction Impact**
 - Botanical impact not anticipated to be tolerable (Tree anticipated to have a 50% or less chance of survival from impact), or
 - Impacted stability of root plate from construction
 - Tree to be proposed for removal.

APPENDIX IV – DRAWING REFERENCE

Based upon the information obtained in the tree survey, the trees are to be plotted, to scale. Depending on the intended use of the drawings, these will be overlaid on: Survey, Site Plan or Grading Plan provided by others. The arborist is not responsible for deficiencies in drawings prepared by others. For most purposes, drawings will be published at a scale of 1:200 (metric) with dimensions in metric and imperial units, on a standard sheet size of Arch-D (24x36). Where permitted by the recipient, drawings may be produced at a scale of 1:250, or in a larger sheet size of Arch-E (36x48). Should multiple sheets be required, an index drawing (TPR-100) will be provided at a smaller scale (e.g., 1:500, 1:1000).

Drawing Indexing and Content

TPR-1xx series

- All surveyed trees, with Tree Number, Species, DBH, Minimum TPZ, and Canopy extents plotted.
- Any trees which are proposed to be removed.
- Trees which will potentially be subject to Injury because of the proposed site work are not uniquely identified.
- Hatching to clearly identify areas of Tree Protection Zone encroachment by the proposed construction. (*Hatching may be omitted for clarity*)
- Locations for prescribed Tree Protection Fencing.
- Minimization of Damage notes.
- Scale 1:100 (*small sites only*), 1:200, 1:250

TPR-9xx series (*on smaller sites, photos may be included in TPR-101 drawing*)

- Photo Reference Drawings, providing photo records of each tree.
- Photos are indexed by Tree and (*per tree*) Photo letter.
- Scale as listed above (*TPR-1xx series*)

If required, additional drawings may be rendered as follows:

- TPR-2xx – Section views
- TPR-3xx – Elevation views
- TPR-5xx – Detail views
- TPR-6xx – Schedules and/or Diagrams

APPENDIX V – DRAWINGS