

# **Tree Inventory & Protection Plan**

**Prepared for:**  
Fausto Cortese Architects

**Subject Site:**  
60 Napier Street. Vaughan, ON L4H 3N5

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## ***1.0 Introduction***

### ***1.1 Purpose of Assignment***

The Urban Arborist Inc was retained by Fausto Cortese Architects to prepare a Tree Inventory and Protection Plan for a residential project. The project consists of completing extensive renovations to the existing home, installing an in ground pool and building a cabana.



Figure 1. Front of 60 Napier Street, Vaughan, ON L4H 3N5.

### ***1.2 Existing Site Characteristics***

There are no major grade differences on the property. There are three adjacent lots.

## ***2.0 Methodology***

All data used in this report is empirical in nature, unless stated otherwise. All measurements in this report utilize the metric system of measurement.

## 2.1 *Field Study*

Site inspection and data collection was initiated April 28, 2022. All trees greater than 20cm diameter at base on the property and beyond 6m were tagged and inventoried.

## 2.2 *Tree Locations*

The locations of all significant trees were surveyed and plotted and shown on drawing in appendix 2.

## 2.3 *Tree Conditions*

During field study a generalized assessment system was used to give each significant tree a rating based on structural condition and health condition.

The following 5 level assessment for health is listed below.

- Very Poor - Tree displays severe dieback of branches, canopy is extremely sparse. May exhibit extreme pathogen infestation or infection. Or tree is dead.
- Poor - Tree displays some dieback. Branches or canopy is sparse with little or no signs of new growth or vigour. Possible pathogen infestation or infection. Foliar canopy is sparse.
- Average - Tree is developing in a manner typical to others in the area. Canopy is full.
- Good - New growth is vigorous as evidenced by stem elongation and colour. Canopy is dense.
- Very Good - In addition to the attributes of a good rating, tree is displaying extremely vigorous growth and trunk displays a pattern of vigour cracks or lines.

The following 5 level assessment for structural condition was as follows:

- Very Poor - Trunk has large pockets of decay, is bifurcated or has a severe lean. Limbs or branches are poorly attached or dead. Possible hazard.
- Poor - Limbs or branches are poorly attached or developed. Canopy is not symmetrical. Trunk has a lean.
- Average - Trunk, limb and branch development though flawed is typical of this species.
- Good - Trunk is well developed with well attached limbs and branches; some

flaws but are hardly visible.

Very Good - In addition to attributes of a good rating, the tree exhibits a well developed root flare and a balanced canopy.

Factors Assessed were as follows:

<b>Roots</b>	<b>Trunk</b>	<b>Foliage/Buds</b>	<b>Scaffold Branches</b>	<b>Small Branches/Twigs</b>
<ul style="list-style-type: none"> <li>· Collar/flare</li> <li>· Mechanical injury</li> <li>· Girdling roots</li> <li>· Insects/disease</li> <li>· Decay/fungi</li> </ul>	<ul style="list-style-type: none"> <li>· Cavities</li> <li>· Mechanical injury</li> <li>· Cracks</li> <li>· Swollen/sunken areas</li> <li>· Insects/disease</li> <li>· Fungi</li> </ul>	<ul style="list-style-type: none"> <li>· Size of foliage/buds</li> <li>· Foliage colour</li> <li>· Foliage injury</li> <li>· Dieback of buds/foilage</li> <li>· Insects/disease</li> </ul>	<ul style="list-style-type: none"> <li>· Attachments/included bark</li> <li>· Taper</li> <li>· Distribution</li> <li>· Decay/cavities</li> <li>· Deadwood</li> <li>· Insects/disease</li> </ul>	<ul style="list-style-type: none"> <li>· Vigour/growth rates</li> <li>· Distribution</li> <li>· Appearance</li> <li>· Insects/disease</li> <li>· Dieback</li> </ul>

### **3.0 Tree Inventory**

A total of 4 trees were inventoried at the subject property and beyond 6m. All trees exist on neighbouring property. (See Tree Inventory Spreadsheet in appendix 1).

#### ***3.1 Trees to Preserve***

The trees in this section have been evaluated suitable for preservation and fall under the Tree Preservation, Protection and Management guidelines in this report. Different approaches of Tree Preservation can be carried out following tree health and structure evaluation. The following describes the differences in approaches to Tree Preservation.

##### **1. Preserve, Protect & Maintain**

Includes protection with tree preservation hoarding, as well as pre and post-construction arboricultural works.

##### **2. Preserve & Protect**

Includes the installation of tree protection hoarding; no maintenance will be required unless specified in the recommendations in Appendix 1

##### **3. Retain**

No protection or maintenance measures are required. Installation of tree protection barriers is optional.

# of Trees evaluated as suitable for Preservation	3
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# of Trees to use Method 1	n/a
# of Trees to use Method 2	3 (#2, #3, #4)
# of Trees to use Method 3	n/a

In the case of 60 Napier Street all trees can be preserved with the exception of tree #1. Tree #1 has been permitted by neighbour for removal.

### 3.2 *Trees to Remove*

All trees scheduled for removal shall be removed prior to any construction, earthworks or installation of tree protection hoarding. Due to site or development, tree condition or location, retention is not warranted. A total of 0 trees are to be removed requiring a permit due to site development.

Total of number of Trees to Remove requiring a permit	0
Trees Proposed to be Removed	n/a

### 3.3 *Trees to Injure*

There 3 trees to injure. All 3 trees are on neighbouring property at the rear of the property. All 3 trees are Norway Maples that have volunteered themselves along the fence line. The existing garage has been built prior to the trees being there and a large amount of the minimum tree protection zone for trees #2 and #3 are in the footprint of the garage. The proposed tree protection barriers wrap around the existing garage as a result.

It is worth noting that the Norway Maple is a vigorous grower and can withstand greater disturbances than most other species.

### 3.4 *Trees to Replant (Replacement)*

There are 0 trees to be removed that require compensation or replacement. A total of 0 trees will be planted on the property in replacement.

### 3.5 *Pruning*

No pruning required for the proposed site plan.

#### **4.0     *Tree Preservation, Protection and Management***

##### *4.1 Tree Protection*

Tree protection barriers will be installed around all trees scheduled for protection and at the limits set out in the Tree Inventory Table (appendix 1).

##### *4.2 Tree Protection Barriers*

All trees scheduled to be *Preserved Protected & Maintained* or *Preserved & Protected* shall have their critical rooting zones protected with the installation of tree protection barriers. Tree protection barriers shall be installed as per City of Vaughan Tree Protection Barrier Detail in Appendix 3.

## 5.0 Conclusions and Recommendations

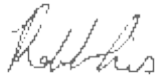
Based on all data collected from on-site field work and review of all site plans the following conclusions and recommendations are made and correspond with Tree Inventory in Appendix 1:

Conclusions	Recommendations
3 trees are to be retained and preserved on site.	Install tree protection as shown in Site Plan / Tree Protection Plan Drawing.
The proposed development will require 3 trees to be injured.	Submit application to Injure 3 trees to City of Vaughan.
0 trees are required to be planted back onto the site.	No action required.

Attachments are as follows:

- Appendix 1 Tree Inventory
- Appendix 2 Site Plan / Tree Protection Plan Drawing
- Appendix 3 Tree Protection Barrier Detail ULA110A
- Appendix 4 Photographs

This 7 page Report was written by



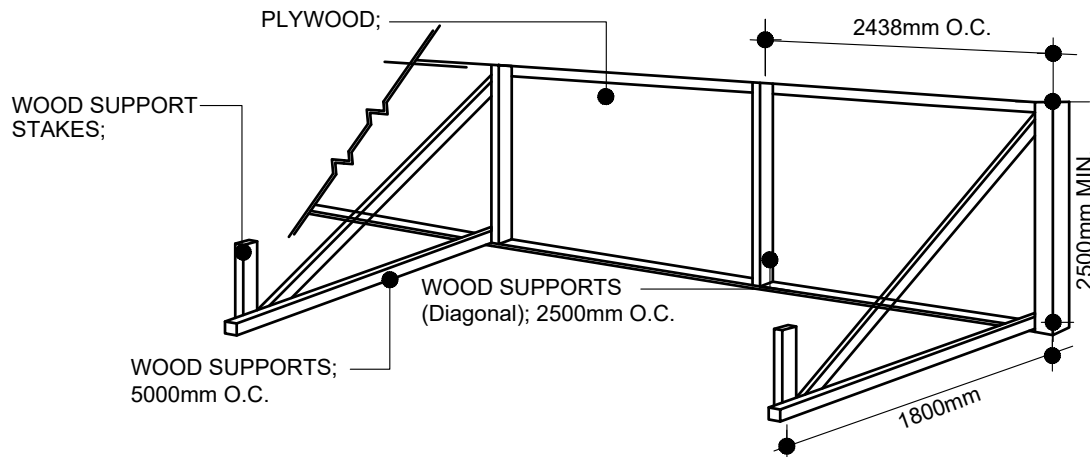
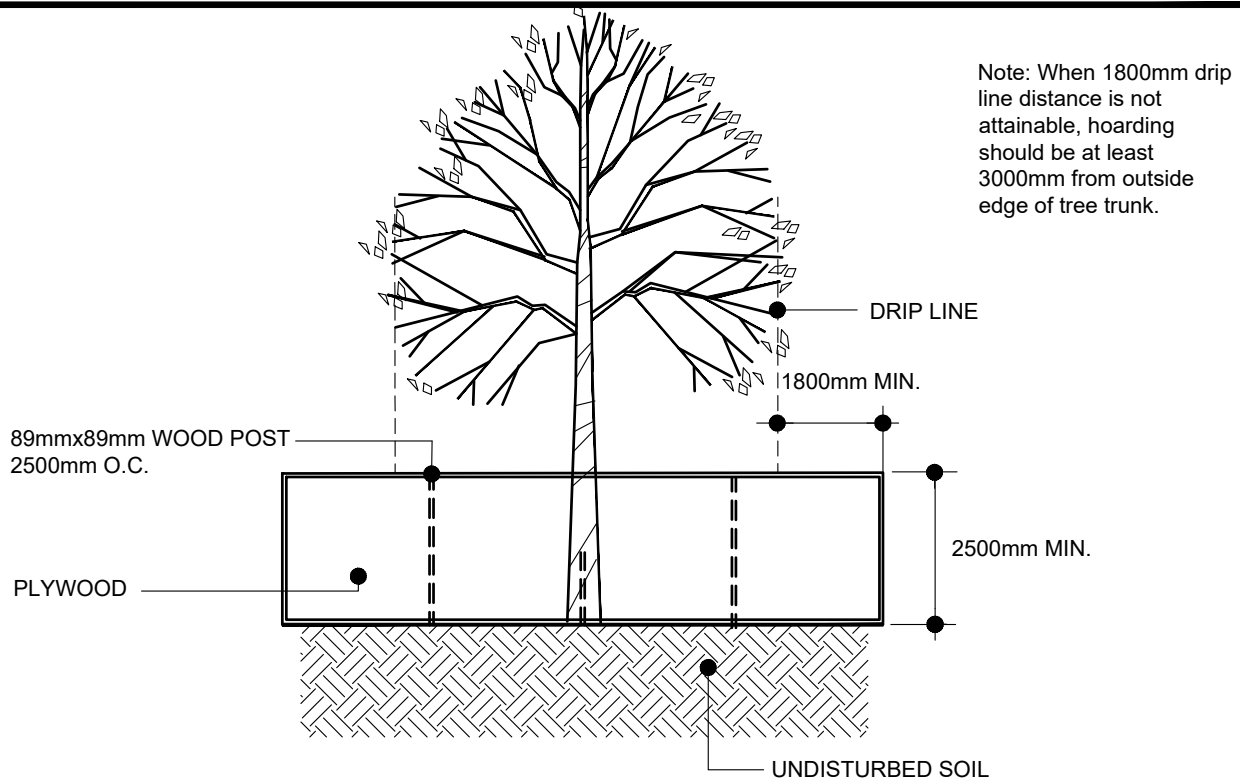
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**Tree Inventory – 60 Napier Street. Vaughan, ON L4H 3N5 – April 14 2022.**

<b>Tag #</b>	<b>Common Name</b>	<b>Botanical Name</b>	<b>Diameter @ Base (cm)</b>	<b>Diameter at Breast Height (cm)</b>	<b>Health Condition</b>	<b>Structural Condition</b>	<b>Notes</b>	<b>Recommendations Based on Site Plan</b>	<b>Minimum TPZ (m)</b>	<b>Proposed TPZ (m)</b>	<b>Replacement Ratio</b>
1	Black Walnut	Juglans nigra	57	51	Average	Average	Beyond property 0.5m	<b>Permitted to be removed by neighbour</b>	3.6	-	-
2	Norway Maple	Acer platanoides	55	48	Average / Poor	Average / Poor	Beyond property 0.6m	Retain	3.6	1.8 – 3.6	-
3	Norway Maple	Acer platanoides	42	40	Average	Average	Beyond property 0.8m	Retain	3	1.5 – 3	-
4	Norway Maple	Acer platanoides	60	55	Average	Average	Beyond property 2.0m	Retain	3.6	2.6 – 3.6	-





Note: All Support Stakes and Hoarding Posts to be wood 2" x 4" member.

Note: All Plywood to be 4'x8' sheets.

Note: All Connection Points to be Rigid.

## NOTES:

1. Attachment of fence to trees to be preserved is not allowed.
2. Ensure fence is continuous and is located beyond the drip line of trees to be preserved.
3. Fencing to be installed prior to start of construction.
4. All supports and bracing should be inside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
5. No Construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.



# VAUGHAN

DEVELOPMENT PLANNING DEPT.  
URBAN DESIGN DIVISION

## HEAVY DUTY TREE HOARDING PROTECTION DETAIL (PLYWOOD)

NOTE: THIS TYPICAL DETAIL IS INTENDED TO PROVIDE DESIGN DIRECTION AND IS FOR REFERENCE ONLY. IT MAY BE USED AS PART OF THE CONSTRUCTION PACKAGE OR SITE PLAN APPLICATION PROVIDED THE DETAIL IS CERTIFIED BY A REGISTERED LANDSCAPE ARCHITECT OR PROFESSIONAL ENGINEER AS APPLICABLE.

DRAWN & DESIGNED: URBAN DESIGN

NOT TO SCALE

DATE: 04 / 07 / 2016

STD. DWG. NO.

ULA 110A

TREE 2 & 3



TREE 4



TREE 1



TREE 1 - 4

