



# Arborist Report and Tree Preservation Plan

---

For:  
Rose Development Corporation

Regarding:  
Temporary Use Permit: 420 South Service Road  
East, Oakville ON.

Prepared by:  
Michael R. Plowman  
Assoc. Dipl. Horticulture  
ISA Certified Arborist: ON-1118A

GLN Farm and Forest Research Co Ltd

3 December 2023

# Arborist Report and Tree Preservation Plan

Rose Development  
420 South Service Road East, Oakville ON.

|   |           |
|---|-----------|
| <b>Contents</b>   |           |
| <b>SUMMARY</b> .....  | <b>1</b>  |
| <b>INTRODUCTION</b> .....   | <b>2</b>  |
| Background and History .....  | 2         |
| Assignment .....  | 2         |
| Limits of the Assignment.....   | 2         |
| Purpose and Use of This Report.....   | 2         |
| Methodology.....  | 2         |
| <b>SITE</b> .....   | <b>3</b>  |
| Current Site Characteristics.....   | 3         |
| Proposed Construction.....  | 3         |
| Construction Phases and Anticipated Injury to Encroachment Ratios.....                | 3         |
| <b>TREE INVENTORY SUMMARY</b> .....   | <b>4</b>  |
| Tree Population .....   | 4         |
| Overview.....   | 4         |
| Species Distribution.....   | 4         |
| Trees Receiving TPZ Encroachment or Proposed for Removal.....                         | 6         |
| Regarding Compensation and/or Replacement Tree Plantings for Trees to be Removed..... | 11        |
| Replacement Trees and Security Deposit.....   | 12        |
| <b>ANALYSIS OF PROPOSED ENCROACHMENTS</b> .....                                       | <b>14</b> |
| <b>ARBORIST MINIMIZATION OF DAMAGE RECOMMENDATIONS</b> .....                          | <b>15</b> |
| Pre-Construction Phase .....  | 15        |
| During and Post-Construction.....   | 16        |
| <b>GENERAL TREE PROTECTION GUIDELINES</b> .....                                       | <b>17</b> |
| Tree Protection Zones .....   | 17        |
| Tree Protection Barriers.....   | 17        |
| General Note.....   | 17        |
| Arboricultural Work .....   | 17        |
| <b>APPENDIX I – TREE INVENTORY AND SUMMARY TABLES</b> .....                           | <b>18</b> |
| Tree Inventory.....   | 18        |
| <b>APPENDIX II – ARBORIST’S DECLARATIONS</b> .....                                    | <b>I</b>  |
| Certificate of Performance.....   | i         |
| Assumptions and Limiting Conditions .....   | ii        |
| Disclaimer.....   | iii       |
| <b>APPENDIX III – METHODOLOGY</b> .....   | <b>I</b>  |
| Location.....   | i         |
| Measurements .....  | i         |
| Evaluation of Tree Condition .....  | i         |
| Appraisal.....  | ii        |
| Assessment of TPZ Encroachment and Anticipated Impact .....                           | ii        |
| <b>APPENDIX IV – DRAWING REFERENCE</b> .....  | <b>I</b>  |
| Drawing Indexing and Content .....  | i         |
| <b>APPENDIX V – DRAWINGS</b>  |           |
| Tree Inventory Table Drawing Reference – TPR 100                                      |           |
| Tree Protection Plan Drawings:  |           |
| Site Overview (w aerial imagery) – TPR 101  |           |
| Tree Protection Plan Site Overview (no aerial imagery) – TPR 102                      |           |
| Tree Protection Plan and Hoarding Areas – West Site Area – TPR 103                    |           |
| Tree Protection Plan and Hoarding Areas – NW Site Area – TPR 104                      |           |
| Tree Protection Plan and Hoarding Areas – N Site Area – TPR 105                       |           |
| Tree Protection Plan and Hoarding Areas – SE Woodlot Area – TPR 106                   |           |
| Tree Protection Plan and Hoarding Areas – S/SW Woodlot Area – TPR 107                 |           |

## SUMMARY

The arborist was retained to prepare a tree inventory and protection plan, including tree removal application, for the application for temporary use of the property at 420 South Service Road East, Oakville ON. Temporary use proposed for the site includes the following:

- Parking/Storage use of the sites existing paved/concrete areas
- Parking/Storage use of the sites existing Open Lawn Areas (not incl. woodlot areas)

To allow for the temporary use proposed the site is proposed for the clearing of prior dumping refuse on the site as well as the potential placement of aggregate (clear stone/gravel) where required across the paved areas and open lawn areas of the site.

In addition, the arborist was retained to do a brief species assessment of the woodlot areas (note – not an inventory, nor count) specifically noting any species at risk that may be present through these areas (none discovered) as well as noting any invasive species (buckthorn) that may be present through the areas of “woodlot” or site. These wooded areas are denoted as Woodlot A1 & A2, and Woodlot B. In addition, the arborist noted other invasive species (phragmites) present through various areas of the site.

The following sections of this report detail the inventory of trees, and the trees to be removed to facilitate temporary use of the site, and compensation required. Further, recommendations for the protection of trees to remain (incl. hoarding to be placed as shown on the Tree Protection Plan drawings). Additionally, commentary regarding the woodlot areas is provided, denoting the species noted during the tree inventory site visit.

It should be noted that at this time, and for the temporary use application, no constructions, demolitions, or other works are proposed beyond that required for clearing areas of refuse or invasive phragmite where located in areas to be used for temporary use.

## INTRODUCTION

### Background and History

The site is that of the old GE factory lands, and this site is and has been barren and in process of environmental soil decontamination for the past years. Much of the site is currently either paved by asphalt or concrete areas (presumed to be areas of old factory buildings and driveways for site). The site contains a potentially historic building at the front of the site which is to remain undisturbed at this time.

### Assignment

The arborist was retained in to prepare an Arborist Report and Tree Preservation Plan for the property located at 420 South Service Road East, Oakville ON. for submission to the Town of Oakville in regard to tree removal application and tree protection through temporary use, as required by the Town of Oakville.

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 tpz 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.

Trees were located by the arborist using GPS, and positions of trees adjusted by way of aerial imagery to decrease the dilution of precision of the GPS coordinates taken. All trees within the inventory are numbered as per the tag used for marking the tree.

### 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 the subsequent sections for review and approval by the Town of Oakville. 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.

### 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

The site is that of the old GE factory lands, and this site is and has been barren and in process of environmental soil decontamination for the past years. Much of the site is currently either paved by asphalt or concrete areas (presumed to be areas of old factory buildings and driveways for site). Further, the site contains one building (the front portion of the building) at the front of the site which is to remain through the temporary use of the site.

In addition to the paved areas of the site, there are two treed woodlot areas (A and B) with woodlot A being subdivided in to A1 and A2. These wood lot areas contain primarily dense thickets of the invasive tree species Buckthorn. Additional individual trees noted include: Maple species, Ash (Many dead), Crack Willow, Poplar.

### Proposed Construction

Although there is no proposed construction for the site, the property is proposed for temporary use as a parking/storage area on the existing open areas (open paved areas/areas of prior dumping of refuse/gravel). No work is proposed beyond the placement of gravel/clear stone for level and stable parking/storage areas, and no work is proposed to occur within either woodlot areas at this time.

### Construction Phases and Anticipated Injury to Encroachment Ratios

TEMPORARY USE AREA – AREA TO BE USED FOR PARKING/STORAGE  
USE ON AREAS OF EXISTING PAVING/CONCRETE  
-CLEAR STONE TO BE PLACED TO PROVIDE SUITABLE AND LEVEL  
AGGREGATE BASE FOR PARKING/STORAGE

#### Initial Assumptions Regarding Proposed Work

**Encroachment Type:** General Access (may include vehicles and heavy equipment – on existing paved/concrete areas)

**Maximum Excavation Depth (m):** 0.3

**Maximum Height or Clearance (m):** 3

#### Assumed Ratio of Injury to Encroachment

*(Injury = Ratio x Encroachment)*

**Root Zone:** 0.25      **Canopy:** 0

REFUSE/DUMPING AREAS – CLEARING OF AREAS

#### Initial Assumptions Regarding Proposed Work

**Encroachment Type:** General Access and Clearing

**Maximum Excavation Depth (m):** 0.3

**Maximum Height or Clearance (m):** 0

#### Assumed Ratio of Injury to Encroachment

*(Injury = Ratio x Encroachment)*

**Root Zone:** 0.25      **Canopy:** 0

## TREE INVENTORY SUMMARY

### Tree Population

#### Overview

There were Eighty-Eight (88) trees of 10cm or greater inventoried within the scope of this survey.

The following outlines the distribution of all trees within the inventory presenting their deemed ownership (location), and further presents a species distribution for the site.

#### Ownership

- Client Tree 86
- Client/Neighbor Shared Ownership 2

#### Species Distribution

Species distribution, average DBH, and count are as follows:

| Species  | Count | Average DBH (cm) |
|--|-------|------------------|
| boxelder, Ash-leaved Maple<br><i>Acer negundo</i>                | 1     | 23.0             |
| Norway maple<br><i>Acer platanoides</i>                          | 12    | 31.8             |
| red maple, scarlet maple, swamp maple<br><i>Acer rubrum</i>      | 2     | 35.0             |
| sugar maple, rock maple, hard maple<br><i>Acer saccharum</i>     | 2     | 72.5             |
| European white birch<br><i>Betula pendula</i>                    | 1     | 19.0             |
| European hornbeam<br><i>Carpinus betulus</i>                     | 2     | 38.0             |
| white ash<br><i>Fraxinus americana</i>                           | 8     | 35.2             |
| Austrian pine<br><i>Pinus nigra</i>                              | 31    | 37.0             |
| London planetree<br><i>Platanus acerifolia</i>                   | 1     | 23.0             |
| Carolina poplar<br><i>Populus canadensis [deltoides × nigra]</i> | 5     | 22.0             |
| Lombardy poplar<br><i>Populus nigra</i>                          | 4     | 22.5             |
| black locust<br><i>Robinia pseudoacacia</i>                      | 1     | 27.0             |
| Sumac spp.<br><i>Rhus spp.</i>                                   | 1     | 13.0             |
| crack willow<br><i>Salix fragilis</i>                            | 11    | 49.9             |
| Siberian elm<br><i>Ulmus pumila</i>                              | 2     | 27.0             |
| Red elm<br><i>Ulmus rubra</i>                                    | 4     | 13.0             |

**Woodlot Areas A1 & A2, and B**

During the tree inventory site visit, the woodlot areas were not included within the inventory as per the scope of the reporting, however they were assessed for species present through these areas. Within the Woodlot areas, the following species were noted:

**Woodlot A1:** Buckthorn (Invasive), Ash (many dead – thought to be White Ash), Norway Maple, Crack Willow, Red Elm

**Woodlot A2:** Buckthorn (Invasive), Phragmite (Invasive)

**Woodlot B:** Buckthorn (Invasive), Ash (many dead – thought to be White Ash), Maple species (predominantly Norway), Poplar species (predominantly Lombardy)

Species distribution through the woodlots contains a significant majority of Buckthorn, with woodlot areas being that of Buckthorn thickets/woods. In woodlot A1 and B there are individual trees of species as listed above scattered throughout the area, however, the large majority of each area is buckthorn. In the area of Woodlot A2, the area is split between Buckthorn and Phragmite.

In other areas of the site, there are significant growth of Phragmite, as well as other random grasses and shrubs that have grown through areas of prior illegal dumping on the site (areas of soil dumping and gravel/concrete refuse dumping).

Although for the purpose of the temporary use application, the woodlot areas will remain untouched and hoarded to prevent access through these areas, it is recommended that the client investigate these areas ultimately looking toward the removal of the invasive buckthorn and phragmite species throughout. At this time, it is recommended that the individual trees of other species through the area be assessed for viability of retention, however, it is the opinion of this arborist that the removal of the buckthorn and phragmite should not be hindered by the presence of these trees. It is to be noted that any work within these areas is not within the scope of this assignment, and all work that may occur in the future through these areas must only be conducted on approval by the Town of Oakville.



### Trees Receiving TPZ Encroachment or Proposed for 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 proposed construction activities (including access) within the protected root zone area of a tree, or the proposed removal 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.

Additionally, a permit to injure or a permit to remove may be required for trees proposed for injury or removal as per the municipal tree bylaws relevant to the area/site.

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 cases, ‘cash-in-lieu’ where such planting would be infeasible.

#### Trees Proposed to Receive Encroachment on the Protected Root Zone Area

The following trees are located with MTPZ areas bisected by the areas to be used for temporary use parking/storage. Although existing paving in these areas will prevent any significant root impact, these trees will receive encroachment within the technical mtpz radius from the follows:

- Potential Placement of Aggregate (clear stone/gravel) on Ex Paving Areas as may be Required for Stable Parking/Storage use.
- Parking/Storage through the duration of the Temporary Use of the site

| Tree #<br>Species<br>Ownership                             | DBH (cm)<br>Canopy Dia.<br>(m) | Comments Regarding Injury   |
|--|--------------------------------|---|
| 019<br>Norway Maple {Acer platanoides}<br>Client Tree      | 35 cm<br>6.0 M                 | Encroachment (all phases): Major. Anticipated Injury: Negligible. |
| 020<br>Norway Maple {Acer platanoides}<br>Client Tree      | 36 cm<br>8.0 M                 | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| 021<br>European Hornbeam {Carpinus betulus}<br>Client Tree | 39 cm<br>4.0 M                 | Encroachment (all phases): Major. Anticipated Injury: Minor.      |
| 022<br>European Hornbeam {Carpinus betulus}<br>Client Tree | 37 cm<br>6.0 M                 | Encroachment (all phases): Major. Anticipated Injury: Minor.      |
| 023<br>Norway Maple {Acer platanoides}<br>Client Tree      | 34 cm<br>6.0 M                 | Encroachment (all phases): Major. Anticipated Injury: Minor.      |
| 024<br>Norway Maple {Acer platanoides}<br>Client Tree      | 32 cm<br>6.0 M                 | Encroachment (all phases): Major. Anticipated Injury: Minor.      |

|  |                 |   |
|--|-----------------|---|
| <b>025</b><br><b>Norway Maple {Acer platanoides}</b><br><b>Client Tree</b> | 28 cm<br>6.0 M  | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>027</b><br><b>Norway Maple {Acer platanoides}</b><br><b>Client Tree</b> | 26 cm<br>8.0 M  | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>029</b><br><b>Lombardy Poplar {Populus nigra}</b><br><b>Client Tree</b> | 22 cm<br>8.0 M  | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>049</b><br><b>Austrian Pine {Pinus nigra}</b><br><b>Client Tree</b>     | 37 cm<br>10.0 M | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>052</b><br><b>Austrian Pine {Pinus nigra}</b><br><b>Client Tree</b>     | 45 cm<br>8.0 M  | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>053</b><br><b>Crack Willow {Salix fragilis}</b><br><b>Client Tree</b>   | 68 cm<br>16.0 M | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |
| <b>054</b><br><b>Crack Willow {Salix fragilis}</b><br><b>Client Tree</b>   | 55 cm<br>14.0 M | Encroachment (all phases): Minor. Anticipated Injury: Negligible. |

Please see subsequent section of this report for a detailed analysis of all of the above proposed injuries, as well as recommendations for the minimization of damages in these areas.

The following small-sized trees (not subject to Tree Protection Bylaw) may also incur some injury as a result of the proposed construction.  
082 (Lombardy Poplar), 084 (Crack Willow),

**Trees Proposed for Removal for Temporary Use**

The following trees are proposed for removal within the application. These trees are proposed for removal for the following reasons:

- Proposed for removal due to Current Condition – (poor and declining botanical condition/structurally unsound/dead)
- Proposed for removal due to their location within the central paved area of the site or open lawn areas where temp use is proposed (within Temporary Use Areas)

**Trees Proposed for Removal in Open Lawn Areas**

| Tree #<br>Species<br>Ownership                    | DBH (cm)<br>Canopy<br>Dia. (m) | Comments Regarding Removal   |
|---|--------------------------------|--|
| 001<br>Austrian Pine {Pinus nigra}<br>Client Tree | 50<br>10.0                     | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 002<br>Austrian Pine {Pinus nigra}<br>Client Tree | 42<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 003<br>Austrian Pine {Pinus nigra}<br>Client Tree | 29<br>6.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 004<br>Austrian Pine {Pinus nigra}<br>Client Tree | 40<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 005<br>Austrian Pine {Pinus nigra}<br>Client Tree | 35<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 006<br>Austrian Pine {Pinus nigra}<br>Client Tree | 35<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 007<br>Austrian Pine {Pinus nigra}<br>Client Tree | 31<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 008<br>Austrian Pine {Pinus nigra}<br>Client Tree | 47<br>10.0                     | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 009<br>Austrian Pine {Pinus nigra}<br>Client Tree | 37<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 010<br>Austrian Pine {Pinus nigra}<br>Client Tree | 34<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 011<br>Austrian Pine {Pinus nigra}<br>Client Tree | 40<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 012<br>Austrian Pine {Pinus nigra}<br>Client Tree | 42<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| 013<br>Austrian Pine {Pinus nigra}<br>Client Tree | 35<br>8.0                      | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |

|  |            |  |
|--|------------|--|
| <b>014</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 54<br>12.0 | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| <b>015</b><br>Red Maple {Acer rubrum}<br>Client Tree         | 41<br>8.0  | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| <b>016</b><br>Red Maple {Acer rubrum}<br>Client Tree         | 29<br>6.0  | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |
| <b>030</b><br>Norway Maple {Acer platanoides}<br>Client Tree | 20<br>6.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>031</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 40<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>032</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 36<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>033</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 29<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>034</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 24<br>4.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>035</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 28<br>6.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>036</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 35<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>037</b><br>Siberian Elm {Ulmus pumila}<br>Client Tree     | 27<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>038</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 50<br>10.0 | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>039</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 27<br>6.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>040</b><br>Norway Maple {Acer platanoides}<br>Client Tree | 29<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>041</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 37<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>042</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 40<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>043</b><br>Norway Maple {Acer platanoides}<br>Client Tree | 53<br>6.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>044</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 35<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>045</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 38<br>10.0 | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>046</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 31<br>8.0  | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| <b>047</b><br>Austrian Pine {Pinus nigra}<br>Client Tree     | 36<br>10.0 | Within open area (currently lawn w trees) proposed for temp use parking/storage  |

**Trees Proposed for Removal within Currently Paved Areas Proposed for Temp Use**

The following trees are located growing within refuse piles from former dumping on site, or within cracks in paved surfaces. These trees are proposed for removal as the existing paved areas are to be used as Temp Use Areas.

| Tree #<br>Species<br>Ownership  | DBH (cm)<br>Canopy Dia.<br>(m) | Comments Regarding Removal   |
|---|--------------------------------|--|
| 057<br>White Ash { <i>Fraxinus americana</i> )<br>Client Tree                           | 15<br>6.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 058<br>Carolina Poplar { <i>Populus canadensis [deltoides × nigra]</i> )<br>Client Tree | 11<br>2.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 059<br>Carolina Poplar { <i>Populus canadensis [deltoides × nigra]</i> )<br>Client Tree | 10<br>2.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 060<br>Carolina Poplar { <i>Populus canadensis [deltoides × nigra]</i> )<br>Client Tree | 21<br>6.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 061<br>Carolina Poplar { <i>Populus canadensis [deltoides × nigra]</i> )<br>Client Tree | 25<br>4.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 062<br>Carolina Poplar { <i>Populus canadensis [deltoides × nigra]</i> )<br>Client Tree | 20<br>6.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 063<br>Black Locust { <i>Robinia pseudoacacia</i> )<br>Client Tree                      | 27<br>8.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 083<br>Lombardy Poplar { <i>Populus nigra</i> )<br>Client Tree                          | 14<br>4.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 086<br>White Ash { <i>Fraxinus americana</i> )<br>Client Tree                           | 11<br>2.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 087<br>Lombardy Poplar { <i>Populus nigra</i> )<br>Client Tree                          | 23<br>6.0                      | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |

**Trees Proposed for Removal due to Current Condition**

| Tree #<br>Species<br>Ownership                           | DBH (cm)<br>Canopy Dia.<br>(m) | Comments Regarding Removal   |
|--|--------------------------------|--|
| 017<br>Norway Maple {Acer<br>platanoides)<br>Client Tree | 26<br>4.0                      | Recommended for removal due to current condition<br>(declining/structurally unsound) |
| 026<br>Sugar Maple {Acer<br>saccharum)<br>Client Tree    | 59<br>14.0                     | Recommended for removal due to current condition<br>(declining/structurally unsound) |
| 028<br>Sugar Maple {Acer<br>saccharum)<br>Client Tree    | 86<br>16.0                     | Recommended for removal due to current condition<br>(declining/structurally unsound) |
| 034<br>Austrian Pine {Pinus nigra)<br>Client Tree        | 24<br>4.0                      | Recommended for removal due to current condition<br>(Dead)                           |
| 043<br>Norway Maple {Acer<br>platanoides)<br>Client Tree | 53<br>6.0                      | Recommended for removal due to current condition<br>(declining/structurally unsound) |
| 064<br>White Ash {Fraxinus<br>americana)<br>Client Tree  | 50<br>12.0                     | Recommended for removal due to current condition<br>(Dead)                           |
| 065<br>White Ash {Fraxinus<br>americana)<br>Client Tree  | 49<br>10.0                     | Recommended for removal due to current condition<br>(Dead)                           |
| 066<br>White Ash {Fraxinus<br>americana)<br>Client Tree  | 45<br>10.0                     | Recommended for removal due to current condition<br>(Dead)                           |
| 088<br>Siberian Elm (Ulmus<br>pumila)<br>Client Tree     | 10<br>2.0                      | Recommended for removal due to current condition<br>(declining condition)            |

**Note:**

It should be noted that the Private Tree Protection By-law 2017-038 (as amended) regulates all trees up until final Site Plan approval. During the Site Plan process trees shall not be removed as they are part of the formal submission(s). Once final Site Plan approval has been granted, the Private Tree Protection Bylaw is superseded by conditions that are set out in the approved Site Plan Agreement. This means that once Site Plan approval is granted the trees to be removed are not subject to the private tree bylaw procedure.

**Regarding Compensation and/or Replacement Tree Plantings for Trees to be Removed**

As per the Town of Oakville requirements for replacement of trees to be removed, the following presents the anticipated requirement for replacement trees to compensate for the tree removals proposed within this application. It should be noted that for properties under the site plan control process, any replacement planting or compensation will be set out as part of the final Site Plan Agreement and may differ from that presented below.

**Replacement Trees and Security Deposit**

*“As a condition of the permit, one tree must be planted for every 10 cm DBH of healthy tree removed.*

*A \$300 security deposit is required for each tree to be planted. The security deposit will be refunded once a final inspection of the replacement plantings is complete.*

*Replacement trees must be planted on the same property as those removed. Where it is not possible to properly grow replacement trees on the site, the security deposit may be donated to the town to plant on nearby town property.*

*The minimum tree replacement size is a 30-mm caliper (3 cm width) deciduous tree, or a 150-cm high coniferous tree in a five-gallon container, balled in burlap, or in a wire basket”*

For this application, there are Fifty-two(52) trees (all sizes and conditions) proposed to be removed outside of the woodlot areas (which are to be preserved for the current application) as outlined in the preceding section. It is expected that compensation would be required as follows:

| Trunk Diameter (DBH) of Tree Removed  | Required No. of Trees for Compensation |
|---------------------------------------|--|
| Tree #001: 50 cm DBH                  | 5                                      |
| Tree #002: 42 cm DBH                  | 4                                      |
| Tree #003: 29 cm DBH                  | 2                                      |
| Tree #004: 40 cm DBH                  | 4                                      |
| Tree #005: 35 cm DBH                  | 3                                      |
| Tree #006: 35 cm DBH                  | 3                                      |
| Tree #007: 31 cm DBH                  | 3                                      |
| Tree #008: 47 cm DBH                  | 4                                      |
| Tree #009: 37 cm DBH                  | 3                                      |
| Tree #010: 34 cm DBH                  | 3                                      |
| Tree #011: 40 cm DBH                  | 4                                      |
| Tree #012: 42 cm DBH                  | 4                                      |
| Tree #013: 35 cm DBH                  | 3                                      |
| Tree #014: 54 cm DBH                  | 5                                      |
| Tree #015: 41 cm DBH                  | 4                                      |
| Tree #016: 29 cm DBH                  | 2                                      |
| Tree #017: 26 cm DBH (Poor condition) | 1                                      |
| Tree #026: 59 cm DBH (Poor condition) | 1                                      |
| Tree #028: 86 cm DBH (Poor condition) | 1                                      |
| Tree #030: 20 cm DBH                  | 2                                      |
| Tree #031: 40 cm DBH                  | 4                                      |
| Tree #032: 36 cm DBH                  | 3                                      |
| Tree #033: 29 cm DBH                  | 2                                      |
| Tree #034: 24 cm DBH (Dead)           | 0                                      |
| Tree #035: 28 cm DBH                  | 2                                      |
| Tree #036: 35 cm DBH                  | 3                                      |
| Tree #037: 27 cm DBH                  | 2                                      |
| Tree #038: 50 cm DBH                  | 5                                      |
| Tree #039: 27 cm DBH                  | 2                                      |
| Tree #040: 29 cm DBH                  | 2                                      |
| Tree #041: 37 cm DBH                  | 3                                      |
| Tree #042: 40 cm DBH                  | 4                                      |
| Tree #043: 53 cm DBH                  | 5                                      |
| Tree #044: 35 cm DBH                  | 3                                      |
| Tree #045: 38 cm DBH                  | 3                                      |
| Tree #046: 31 cm DBH                  | 3                                      |
| Tree #047: 36 cm DBH                  | 3                                      |
| Tree #034: 24 cm DBH (Dead)           | 0                                      |
| Tree #043: 53 cm DBH (Poor Condition) | 1                                      |
| Tree #057: 15 cm DBH                  | 1                                      |

| Trunk Diameter (DBH) of Tree Removed  | Required No. of Trees for Compensation |
|---------------------------------------|--|
| Tree #058: 11 cm DBH                  | 1                                      |
| Tree #059: 10 cm DBH                  | 1                                      |
| Tree #060: 21 cm DBH                  | 2                                      |
| Tree #061: 25 cm DBH                  | 2                                      |
| Tree #062: 20 cm DBH                  | 2                                      |
| Tree #063: 27 cm DBH                  | 2                                      |
| Tree #064: 50 cm DBH (Dead)           | 0                                      |
| Tree #065: 49 cm DBH (Dead)           | 0                                      |
| Tree #066: 45 cm DBH (Dead)           | 0                                      |
| Tree #083: 14 cm DBH                  | 1                                      |
| Tree #085: 10cm DBH                   | 1                                      |
| Tree #086: 11 cm DBH                  | 1                                      |
| Tree #087: 23 cm DBH                  | 2                                      |
| Tree #088: 10 cm DBH (Poor Condition) | 1                                      |

**Total Anticipated Compensation: 130 Trees**

It should be noted that the above assumes that replacement is required for all trees regardless of a poor condition rating. It assumes that dead trees will require no compensation, poor trees would require 1:1 compensation, and all other trees would require 1 tree per 10cm of DBH. Final total compensation required for the proposed removals (incl. any adjustments to due to condition of removals) is to be provided by the Town of Oakville on review of the application.

Replacement Tree Plantings are to be planted within a reasonable timeline (as specified by the municipality) upon completion of tree removal. For sites with development occurring it is the recommendation of this arborist that the planting occur during the first planting season post construction completion. For example, if construction finishes in the winter, planting of replacement trees is to be conducted in the Spring season immediately following construction conclusion. If construction finishes in the spring/summer, planting of replacement trees is to be conducted in the Fall of that same year.

It should be noted that replacement trees that may be required are to be of Native species, or other accepted species/varieties, as accepted by the Town of Oakville. Please refer to the Town of Oakville website for the current lists of suitable replacement trees. Please note that all replacement trees are subject to approval by the Town of Oakville.



## ANALYSIS OF PROPOSED ENCROACHMENTS

The following sections outline the anticipated tree encroachments and injuries for each phase of the proposed construction. Please refer to the subsequent sections: Minimization of Damage Recommendations for recommendations for each phase of construction affecting trees, including Pre-Construction and Post-Construction recommendations.

### Temporary Use Areas

The open areas of the site (those currently paved/refuse areas/within the open central areas of the site/open lawn areas) are proposed to be used for parking/storage in a temporary use. This temporary use is to be facilitated by the placement gravel/crushed stone through these areas (where required, such as in the open lawn areas) in order to provide a level and firm support for any vehicle parking and/or storage on the site area. Although these areas do not directly impact trees on the site, some trees located adjacent the parking area will have technical encroachment within the MTPZ extent as the MTPZ areas of these trees extend in to the existing parking areas.

As the existing concrete/paving through the site is not being removed at this time and may only being filled upon with aggregate to create stable and level surfacing where required, no actual impact to trees to be preserved is expected to occur with care taken during any placement of aggregate required. This care is to include the following:

1. Placement of hoarding protection for the trees to remain on the site through temporary use, as shown on the Tree Protection Plan drawings provided. Note: hoarding is to remain in place and be maintained in good repair throughout the duration of Temporary use.
2. If placement of any aggregate through the areas of MTPZ extent is to be required, it is to be done only by light equipment. Heavy equipment such as dump trucks are to bring the aggregate to the site and smaller equipment (bobcat) is to be used to place any aggregate required in areas of MTPZ extent.

Assuming that the above care is taken to protect the existing trees to remain, as well as to prevent any heavier equipment from placement and access in MTPZ areas that extend under the existing paved areas, no significant impact to the trees to remain is expected. Although the work will present a technical encroachment on the MTPZ areas that transect paving areas, no actual impact will occur with care taken as the paving is to be maintained.

## ARBORIST MINIMIZATION OF DAMAGE RECOMMENDATIONS

The following presents recommendations for ensuring tree protection through construction. Further, this section presents some recommendations for prior to construction commencement, as well as recommendations for post construction.

### Pre-Construction Phase

Prior to the commencement of construction, tree preservation hoarding, as well as arboricultural work with regards to any removals and any required pruning for construction, should be implemented as follows:

1. All Tree Preservation Hoarding is to be erected and placed as per the location presented on the attached Tree Preservation Plan Drawing: TPR 101.  
Note: Tree Protection Hoarding must be installed upon approval of the tree preservation plan, and prior to release of the permits regarding tree injury. Upon approval of the Arborist Report and Tree Preservation Plan, and conditions of permit release being sent to the client, the hoarding is to be erected.
2. If it is determined by engineering that silt fencing be required for the site to prevent silt movement, it is the recommendation of the arborist that the silt fencing be placed following and on the construction side of tree protection hoarding.
3. If silt fencing is deemed required within hoarded areas of tree protection, it is not to be dug in in this area, but instead have a minimal amount of clear stone placed at the base. This will prevent impact to tree roots in area from the digging in of the silt fence base, while still allowing for the prevention of silt movement beyond the silt fence.
4. All tree protection hoarding (vertical and/or horizontal), and silt fencing (if required), is to be inspected for correct construction and placement as per the approved Tree Preservation Plan Drawing and Site Plan by a Certified Arborist, or other approved consultant, or by a member Town of Oakville Staff. If inspected by other than the Town of Oakville staff, the consultant will provide written certification to the municipality that all protective hoarding and sediment control measures (if/where required) have been satisfactorily installed
5. Any pruning of trees that is to occur, as approved and permitted by the Town of Oakville for significant size trees, should occur during this phase. No pruning of significant size trees may occur until such time as the pruning has been approved by Forestry and tree injury permits have been released and are present on site.
6. Any removal of trees of significant size, as approved and permitted by the Town of Oakville should occur during this phase. No removals of significant size trees may occur until such time as tree removal permits have been released and are present on site.

## During and Post-Construction

Upon completion of the temporary use of the site, as well as during Temporary use, it is recommended that the following be undertaken to promote health and vigor of trees on the site as they recover from construction impacts.

1. Upon completion of construction and approval of such from the Town of Oakville, tree protection hoarding may be removed from the site.
2. Replacement Tree Plantings, where/if required for tree removals, and as per an approved Replacement Tree Planting Plan/Landscape Plan, are to be conducted. Any replacement tree planting should be conducted in the next planting season post application approval as follows:
  - If application completion occurs in the fall/winter, compensation planting is recommended to occur in the first spring season post completion.
  - If application completion occurs in the spring/summer, compensation planting is recommended to occur in the first fall season post construction completion.
3. Any replacement tree plantings installed while the site is still in temporary use are to be protected with hoarding protection. This hoarding protection should provide an MTPZ protection zone of no less than 1.8m in radius from all sides of the tree and is recommended to be of 2.4m radius from all sides of the tree.

It is recommended that a mulch bed be placed in the areas surrounding the base of existing trees, as well as any new trees planted in future planting seasons. This mulch area is recommended to be 6:1 of DBH at minimum, up to the size of the canopy area extent. Further, the mulch bed should be no greater than 2.5cm - 5cm (1 - 2 inches) in depth. A mulch layer in the root zone area will moderate soil temperature and moisture loss through evaporation, creating a better growing environment for roots.

## 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 the Town of Oakville. 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 AND SUMMARY TABLES

Tree Inventory

| Tree Num | Botanical/<br>Common Name<br>Owner | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br>Comments – Construction Related   | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                  |
|----------|------------------------------------|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|--|---------------------------------------|------------------------------------|-------|---|-------|---|
|          |                                    |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |  |                                       | Base                               | Crown | Base  | Crown |   |
| 001      | Pinus nigra<br>Austrian Pine       | 50          |                             | 10.0                   | 2.6                              | 3.25              | 5.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                       |                                    |       |   |       |   |
|          |                                    |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                       |                                    |       |   |       |   |
| 002      | Pinus nigra<br>Austrian Pine       | 42          |                             | 8.0                    | 2.4                              | 3.21              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                       |                                    |       |   |       |   |
|          |                                    |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees and phragmite at edge of property<br>area) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 003      | Pinus nigra<br>Austrian Pine       | 29          |                             | 6.0                    | 2.0                              | 2.54              | 3.00  | 3               | 3                  | 3             | 60% - Fair  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines. A bit thin from occlusion<br>w some DW and a slight bow                 |  |                                       |                                    |       |   |       |   |
|          |                                    |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees and phragmite at edge of property<br>area) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |

| Tree Num | Botanical/<br>Common Name<br><br>Owner | DBH<br>(cm) | Trunk Lean and<br>Direction | Diameter (M) | Canopy<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br><br>Comments – Construction Related   | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                  |
|----------|--|-------------|-----------------------------|--------------|----------------------|-------------------|-------|-----------------|--------------------|---------------|---|--|---------------------------------------|------------------------------------|-------|---|-------|---|
|          |  |             |                             |              |                      | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |  |                                       | Base                               | Crown | Base  | Crown |   |
|          |  |             |                             |              |                      |                   |       |                 |                    |               |   |  |                                       |                                    |       |   |       |   |
| 004      | Pinus nigra<br>Austrian Pine           | 40          |                             | 8.0          | 2.4                  | 3.20              | 4.00  | 3               | 4                  | 4             | 72% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |              |                      |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines - some minor DW  |  |                                       |                                    |       |   |       |   |
|          |  |             |                             |              |                      |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                       |                                    |       |   |       |   |
| 005      | Pinus nigra<br>Austrian Pine           | 35          |                             | 8.0          | 2.2                  | 3.18              | 4.00  | 3               | 4                  | 4             | 72% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |              |                      |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines - some minor DW  |  |                                       |                                    |       |   |       |   |
|          |  |             |                             |              |                      |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                       |                                    |       |   |       |   |
| 006      | Pinus nigra<br>Austrian Pine           | 35          |                             | 8.0          | 2.2                  | 3.18              | 4.00  | 3               | 4                  | 4             | 72% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |              |                      |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                       |                                    |       |   |       |   |
|          |  |             |                             |              |                      |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees and phragmite at edge of property<br>area) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 007      | Pinus nigra<br>Austrian Pine           | 31          |                             | 8.0          | 2.1                  | 3.16              | 4.00  | 3               | 3                  | 2             | 51% - Fair  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |              |                      |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines - poor form - included<br>union of leaders                               |  |                                       |                                    |       |   |       |   |
|          |  |             |                             |              |                      |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                       |                                    |       |   |       |   |

| Tree Num | Botanical/<br>Common Name<br>Owner | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related<br>Comments – Construction Related  | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |
|----------|------------------------------------|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|--|--|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|
|          |                                    |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |  |  |                                 | Base                         | Crown | Base                                   | Crown |                                      |
| 008      | Pinus nigra Austrian Pine          | 47       |                          | 10.0                | 2.6                           | 3.24           | 5.00  | 3            | 4               | 4          | 72% - Good   | Within proposed temp use area            |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Located in slightly crowded group of Austrian pines  |  |                                 |                              |       |  |       |                                      |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |  |                                 |                              |       |  |       |                                      |
| 009      | Pinus nigra Austrian Pine          | 37       |                          | 8.0                 | 2.3                           | 3.18           | 4.00  | 3            | 3               | 3          | 60% - Fair   | Within proposed temp use area            |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Located in slightly crowded group of Austrian pines - deadwood   |  |                                 |                              |       |  |       |                                      |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |  |                                 |                              |       |  |       |                                      |
| 010      | Pinus nigra Austrian Pine          | 34       |                          | 8.0                 | 2.2                           | 3.17           | 4.00  | 4            | 4               | 4          | 80% - Good   | Within proposed temp use area            |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            |  |  |                                 |                              |       |  |       |                                      |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |  |                                 |                              |       |  |       |                                      |
| 011      | Pinus nigra Austrian Pine          | 40       |                          | 8.0                 | 2.4                           | 3.20           | 4.00  | 4            | 3               | 3          | 65% - Good   | Within proposed temp use area            |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Located in slightly crowded group of Austrian pines - crowded union of leaders w odd form                              |  |                                 |                              |       |  |       |                                      |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees and phragmite at edge of property area) proposed for temp use parking/storage |  |                                 |                              |       |  |       |                                      |

| Tree Num | Botanical/<br>Common Name<br><br>Owner | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br><br>Comments – Construction Related   | Construction /<br>Demolition / Access<br>Phase | Minimum Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                  |
|----------|--|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|--|------------------------------------|------------------------------------|-------|---|-------|---|
|          |  |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |  |                                    | Base                               | Crown | Base  | Crown |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               |   |  |                                    |                                    |       |   |       |   |
| 012      | Pinus nigra<br>Austrian Pine           | 42          |                             | 8.0                    | 2.4                              | 3.21              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                    |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                    |                                    |       |   |       |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees and phragmite at edge of property<br>area) proposed for temp use<br>parking/storage |  |                                    |                                    |       |   |       |   |
| 013      | Pinus nigra<br>Austrian Pine           | 35          |                             | 8.0                    | 2.2                              | 3.18              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                    |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                    |                                    |       |   |       |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                    |                                    |       |   |       |   |
| 014      | Pinus nigra<br>Austrian Pine           | 54          |                             | 12.0                   | 2.7                              | 3.87              | 6.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                    |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |                        |                                  |                   |       |                 |                    |               | Located in slightly crowded group of<br>Austrian pines  |  |                                    |                                    |       |   |       |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                    |                                    |       |   |       |   |
| 015      | Acer rubrum<br>Red Maple               | 41          |                             | 8.0                    | 2.4                              | 3.20              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                    |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |                        |                                  |                   |       |                 |                    |               |   |  |                                    |                                    |       |   |       |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                    |                                    |       |   |       |   |
| 016      | Acer rubrum<br>Red Maple               | 29          |                             | 6.0                    | 2.0                              | 2.54              | 3.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                    |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                            |             |                             |                        |                                  |                   |       |                 |                    |               |   |  |                                    |                                    |       |   |       |   |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w trees<br>and phragmite at edge of property area)<br>proposed for temp use parking/storage    |  |                                    |                                    |       |   |       |   |



| Tree Num | Botanical/<br>Common Name  | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |
|----------|--|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|------------------------------|--|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|
|          |  |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |                              |  |                                 | Base                         | Crown | Base                                   | Crown |                                      |
| 017      | Acer platanoides<br>Norway Maple   | 26       |                          | 4.0                 | 1.9                           | 2.53           | 2.00  | 2            | 2               | 2          | 40% - Poor                   | Within proposed temp use area            |                                 |                              |       |  |       | Remove (health or soundness)         |
|          | Declining condition w dieback from top occurring. DW and Decay through canopy - Removal recommended due to condition |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |       |  |       |                                      |
| 018      | Betula pendula<br>European White Birch   | 19       |                          | 8.0                 | 1.6                           | 2.50           | 4.00  | 4            | 4               | 4          | 80% - Good                   | Within proposed temp use area            |                                 |                              |       |  |       | Protected (significant size)         |
|          | Masons weeping birch<br>Protected.   |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |       |  |       |                                      |
| 019      | Acer platanoides<br>Norway Maple   | 35       |                          | 6.0                 | 2.2                           | 3.18           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area                       | 1.8                             | 17.6%                        | 15.9% | 4.4%                                   | 0.0%  | Injured (major encroachment on BTPZ) |
|          | DW and minor decay sites through tree - appears stressed with signed of poor upper canopy growth                     |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 17.6%                           | 15.9%                        | 4.4%  | 0.0%                                   |       |                                      |
| 020      | Acer platanoides<br>Norway Maple   | 36       |                          | 8.0                 | 2.2                           | 3.18           | 4.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area                       | 2.1                             | 12.6%                        | 19.4% | 3.2%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | DW and minor decay sites through tree - appears stressed with signed of poor upper canopy growth                     |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 12.6%                           | 19.4%                        | 3.2%  | 0.0%                                   |       |                                      |
| 021      | Carpinus betulus<br>European Hornbeam  | 39       |                          | 4.0                 | 2.3                           | 3.20           | 2.00  | 3            | 3               | 4          | 65% - Good                   | Temporary Use Area                       | 1.3                             | 26.6%                        | 14.1% | 6.6%                                   | 0.0%  | Injured (major encroachment on BTPZ) |
|          | Deadwood north side  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 26.6%                           | 14.1%                        | 6.6%  | 0.0%                                   |       |                                      |
|          | Client Tree  |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |       |  |       |                                      |
|          | Client Tree  |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |       |  |       |                                      |
|          | Client Tree  |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |       |  |       |                                      |

| Tree Num | Botanical/<br>Common Name   | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related | Construction / Demolition / Access Phase  | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |
|----------|---|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|------------------------------|---|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|
|          |   |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |                              |   |                                 | Base                         | Crown | Base                                   | Crown |                                      |
| 022      | Carpinus betulus<br>European Hornbeam   | 37       |                          | 6.0                 | 2.3                           | 3.18           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area  | 1.5                             | 22.2%                        | 20.6% | 5.5%                                   | 0.0%  | Injured (major encroachment on BTPZ) |
|          | Deadwood north side<br>Crack with fluxing south side  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |   | 22.2%                           | 20.6%                        | 5.5%  | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Major.<br>Anticipated Injury: Minor.   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |
| 023      | Acer platanoides<br>Norway Maple  | 34       |                          | 6.0                 | 2.2                           | 3.17           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area  | 1.5                             | 22.4%                        | 20.9% | 5.6%                                   | 0.0%  | Injured (major encroachment on BTPZ) |
|          | DW and minor decay sites through tree -<br>appears stressed with signed of poor<br>upper canopy growth  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |   | 22.4%                           | 20.9%                        | 5.6%  | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Major.<br>Anticipated Injury: Minor.   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |
| 024      | Acer platanoides<br>Norway Maple  | 32       |                          | 6.0                 | 2.1                           | 3.16           | 3.00  | 2            | 3               | 3          | 51% - Fair                   | Temporary Use Area  | 1.3                             | 25.2%                        | 23.9% | 6.3%                                   | 0.0%  | Injured (major encroachment on BTPZ) |
|          | DW and decay sites through tree -<br>stressed with signed of poor upper<br>canopy growth and loss of viability of<br>some branches              |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |   | 25.2%                           | 23.9%                        | 6.3%  | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Major.<br>Anticipated Injury: Minor.   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |
| 025      | Acer platanoides<br>Norway Maple  | 28       |                          | 6.0                 | 2.0                           | 2.54           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area  | 1.7                             | 10.9%                        | 16.1% | 2.7%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | DW and minor decay sites through tree -<br>appears stressed with signed of poor<br>upper canopy growth  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |   | 10.9%                           | 16.1%                        | 2.7%  | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Minor.<br>Anticipated Injury: Negligible.  |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |
| 026      | Acer saccharum<br>Sugar Maple   | 59       |                          | 14.0                | 2.9                           | 3.90           | 7.00  | 1            | 2               | 2          | 30% - Poor                   | Construction activities<br>(including access) do not<br>encroach upon the<br>protected root zone, or<br>crown of this tree. |                                 |                              |       |  |       | Remove (health or soundness)         |
|          | Dying back from top. 30-50% dead.<br>Declining condition and decay<br>throughout dead branches -<br>Recommended for removal due to<br>condition |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |
|          |   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |       |  |       |                                      |

| Tree Num | Botanical/<br>Common Name<br>Owner | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related<br>Comments – Construction Related  | Construction / Demolition / Access Phase  | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |  |  |  |  |
|----------|------------------------------------|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|--|---|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|--|--|--|--|
|          |                                    |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |  |   |                                 | Base                         | Crown | Base                                   | Crown |                                      |  |  |  |  |
| 027      | Acer platanoides<br>Norway Maple   | 26       |                          | 8.0                 | 1.9                           | 2.53           | 4.00  | 3            | 3               | 3          | 60% - Fair   | Temporary Use Area  | 2.3                             | 1.9%                         | 9.8%  | 0.5%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |  |  |  |  |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Totals:  | 1.9%  |                                 | 9.8%                         | 0.5%  | 0.0%                                   |       |                                      |  |  |  |  |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | DW and minor decay sites through tree - appears stressed with signed of poor growth<br>Encroachment (all phases): Minor.<br>Anticipated Injury: Negligible.                              |   |                                 |                              |       |  |       |                                      |  |  |  |  |
| 028      | Acer saccharum<br>Sugar Maple      | 86       |                          | 16.0                | 3.5                           | 5.83           | 8.00  | 2            | 1               | 3          | 33% - Poor   | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                 |                              |       |  |       | Remove (health or soundness)         |  |  |  |  |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Dying back in upper canopy and declining condition - past failures of primary/secondary branches. Decay throughout. Recommend removal due to declining condition and structural defects. |   |                                 |                              |       |  |       |                                      |  |  |  |  |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            |  |   |                                 |                              |       |  |       |                                      |  |  |  |  |
| 029      | Populus nigra<br>Lombardy Poplar   | 22       |                          | 8.0                 | 1.8                           | 2.51           | 4.00  | 3            | 3               | 3          | 60% - Fair   | Temporary Use Area  | 2.2                             | 3.3%                         | 17.7% | 0.8%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |  |  |  |  |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Totals:  | 3.3%  |                                 | 17.7%                        | 0.8%  | 0.0%                                   |       |                                      |  |  |  |  |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Multistem poplar growth - fair condition<br>Encroachment (all phases): Minor.<br>Anticipated Injury: Negligible.   |   |                                 |                              |       |  |       |                                      |  |  |  |  |
| 030      | Acer platanoides<br>Norway Maple   | 20       |                          | 6.0                 | 1.7                           | 2.50           | 3.00  | 3            | 4               | 4          | 72% - Good   | Within proposed temp use area   |                                 |                              |       |  |       | Remove (within zone of construction) |  |  |  |  |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            | Some signs of stress but otherwise good condition  |   |                                 |                              |       |  |       |                                      |  |  |  |  |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees) proposed for temp use parking/storage  |   |                                 |                              |       |  |       |                                      |  |  |  |  |
| 031      | Pinus nigra<br>Austrian Pine       | 40       |                          | 8.0                 | 2.4                           | 3.20           | 4.00  | 4            | 4               | 4          | 80% - Good   | Within proposed temp use area   |                                 |                              |       |  |       | Remove (within zone of construction) |  |  |  |  |
|          |                                    |          |                          |                     |                               |                |       |              |                 |            |  |   |                                 |                              |       |  |       |                                      |  |  |  |  |
|          | Client Tree                        |          |                          |                     |                               |                |       |              |                 |            | Within open area (currently lawn w trees) proposed for temp use parking/storage  |   |                                 |                              |       |  |       |                                      |  |  |  |  |

| Tree Num | Botanical/<br>Common Name<br>Owner | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br>Comments – Construction Related                       | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                  |
|----------|------------------------------------|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|--|---------------------------------------|------------------------------------|-------|---|-------|---|
|          |                                    |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |  |                                       | Base                               | Crown | Base  | Crown |   |
| 032      | Pinus nigra<br>Austrian Pine       | 36          |                             | 8.0                    | 2.2                              | 3.18              | 4.00  | 4               | 4                  | 3             | 72% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Stunted (topped)  |  |                                       |                                    |       |   |       |   |
| 033      | Pinus nigra<br>Austrian Pine       | 29          |                             | 8.0                    | 2.0                              | 2.54              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 034      | Pinus nigra<br>Austrian Pine       | 24          |                             | 4.0                    | 1.8                              | 2.52              | 2.00  | 0               | 2                  | 0             | 0% - Dead/Dying   | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (dead tree)                      |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Dead Tree - recommended for removal   |  |                                       |                                    |       |   |       |   |
| 035      | Pinus nigra<br>Austrian Pine       | 28          |                             | 6.0                    | 2.0                              | 2.54              | 3.00  | 4               | 4                  | 3             | 72% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | crowded with neighboring pine and some<br>lower DW, but otherwise good condition      |  |                                       |                                    |       |   |       |   |
| 036      | Pinus nigra<br>Austrian Pine       | 35          |                             | 8.0                    | 2.2                              | 3.18              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |

| Tree Num | Botanical/<br>Common Name<br>Owner | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br>Comments – Construction Related                       | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                  |
|----------|------------------------------------|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|--|---------------------------------------|------------------------------------|-------|---|-------|---|
|          |                                    |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |  |                                       | Base                               | Crown | Base  | Crown |   |
| 037      | Ulmus pumila<br>Siberian Elm       | 27          |                             | 8.0                    | 1.9                              | 2.54              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 038      | Pinus nigra<br>Austrian Pine       | 50          |                             | 10.0                   | 2.6                              | 3.25              | 5.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 039      | Pinus nigra<br>Austrian Pine       | 27          |                             | 6.0                    | 1.9                              | 2.54              | 3.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp use area                  |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 040      | Acer platanoides<br>Norway Maple   | 29          |                             | 8.0                    | 2.0                              | 2.54              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |
| 041      | Pinus nigra<br>Austrian Pine       | 37          |                             | 8.0                    | 2.3                              | 3.18              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp<br>use area               |                                       |                                    |       |   |       | Remove (within zone<br>of construction) |
|          | Client Tree                        |             |                             |                        |                                  |                   |       |                 |                    |               | Within open area (currently lawn w<br>trees) proposed for temp use<br>parking/storage |  |                                       |                                    |       |   |       |   |

| Tree Num | Botanical/<br>Common Name<br><br>Owner | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related<br><br>Comments – Construction Related | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |
|----------|--|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|---|--|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|
|          |  |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |   |  |                                 | Base                         | Crown | Base                                   | Crown |                                      |
|          |  |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |
| 042      | Pinus nigra<br>Austrian Pine           | 40       |                          | 8.0                 | 2.4                           | 3.20           | 4.00  | 4            | 4               | 4          | 80% - Good  |  |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                            |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |
| 043      | Acer platanoides<br>Norway Maple       | 53       |                          | 6.0                 | 2.7                           | 3.86           | 3.00  | 1            | 2               | 2          | 30% - Poor  |  |                                 |                              |       |  |       | Remove (health or soundness)         |
|          | Client Tree                            |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |
| 044      | Pinus nigra<br>Austrian Pine           | 35       |                          | 8.0                 | 2.2                           | 3.18           | 4.00  | 4            | 4               | 4          | 80% - Good  |  |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                            |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |
| 045      | Pinus nigra<br>Austrian Pine           | 38       |                          | 10.0                | 2.3                           | 3.19           | 5.00  | 4            | 4               | 4          | 80% - Good  |  |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                            |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |
| 046      | Pinus nigra<br>Austrian Pine           | 31       |                          | 8.0                 | 2.1                           | 3.16           | 4.00  | 4            | 4               | 4          | 80% - Good  |  |                                 |                              |       |  |       | Remove (within zone of construction) |
|          | Client Tree                            |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |       |  |       |                                      |

| Tree Num | Botanical/<br>Common Name<br>Owner  | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br>Comments – Construction Related | Construction /<br>Demolition / Access<br>Phase  | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                               |
|----------|---|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|---|---------------------------------------|------------------------------------|-------|---|-------|--------------------------------------|
|          |   |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |   |                                       | Base                               | Crown | Base  | Crown |                                      |
| 047      | Pinus nigra<br>Austrian Pine  | 36          |                             | 10.0                   | 2.2                              | 3.18              | 5.00  | 4               | 4                  | 4             | 80% - Good  | Within proposed temp use area   |                                       |                                    |       |   |       | Remove (within zone of construction) |
|          | Wire around trunk.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Within open area (currently lawn w trees) proposed for temp use parking/storage |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
| 048      | Acer platanoides<br>Norway Maple  | 33          |                             | 12.0                   | 2.1                              | 3.16              | 6.00  | 4               | 4                  | 4             | 80% - Good  | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                       |                                    |       |   |       | Protected (significant size)         |
|          | Protected.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Client Tree   |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
| 049      | Pinus nigra<br>Austrian Pine  | 37          |                             | 10.0                   | 2.3                              | 3.18              | 5.00  | 4               | 4                  | 3             | 72% - Good  | Temporary Use Area  | 2.7                                   | 4.6%                               | 19.5% | 1.1%  | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Encroachment (all phases): Minor. Anticipated Injury: Negligible.               |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
| 050      | Pinus nigra<br>Austrian Pine  | 28          |                             | 6.0                    | 2.0                              | 2.54              | 3.00  | 4               | 4                  | 4             | 80% - Good  | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                       |                                    |       |   |       | Protected (significant size)         |
|          | Protected.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Client Tree   |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
| 051      | Salix fragilis<br>Crack Willow  | 35          |                             | 8.0                    | 2.2                              | 3.18              | 4.00  | 3               | 3                  | 4             | 65% - Good  | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                       |                                    |       |   |       | Protected (significant size)         |
|          | Some deadwood and minor decay sites but otherwise fair condition                |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Protected.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
| 052      | Pinus nigra<br>Austrian Pine  | 45          |                             | 8.0                    | 2.5                              | 3.22              | 4.00  | 4               | 4                  | 3             | 72% - Good  | Temporary Use Area  | 2.9                                   | 2.6%                               | 9.2%  | 0.6%  | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |
|          | Encroachment (all phases): Minor. Anticipated Injury: Negligible.               |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |       |   |       |                                      |

| Tree Num | Botanical/<br>Common Name<br>Owner   | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related | Construction / Demolition / Access Phase  | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |        | Anticipated Injury From Encroachment % |       | Status                               |
|----------|--|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|------------------------------|---|---------------------------------|------------------------------|--------|--|-------|--------------------------------------|
|          |  |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |                              |   |                                 | Base                         | Crown  | Base                                   | Crown |                                      |
| 053      | Salix fragilis<br>Crack Willow   | 68       |                          | 16.0                | 3.1                           | 4.54           | 8.00  | 3            | 3               | 4          | 65% - Good                   | Temporary Use Area  | 3.7                             | 4.9%                         | 21.9%  | 1.2%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | Some deadwood and minor decay sites but otherwise fair condition   |          |                          |                     |                               |                |       |              |                 |            | Totals:                      | 4.9%  |                                 | 21.9%                        | 1.2%   | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
| 054      | Salix fragilis<br>Crack Willow   | 55       |                          | 14.0                | 2.8                           | 3.88           | 7.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area  | 3.2                             | 5.0%                         | 22.5%  | 1.2%                                   | 0.0%  | Injured (minor encroachment on BTPZ) |
|          | Some deadwood and minor decay sites but otherwise fair condition   |          |                          |                     |                               |                |       |              |                 |            | Totals:                      | 5.0%  |                                 | 22.5%                        | 1.2%   | 0.0%                                   |       |                                      |
|          | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
| 055      | Salix fragilis<br>Crack Willow   | 43       |                          | 10.0                | 2.4                           | 3.22           | 5.00  | 3            | 3               | 3          | 60% - Fair                   | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                 |                              |        |  |       | Protected (significant size)         |
|          | Some deadwood and minor decay sites but otherwise fair condition   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
|          | Protected.   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
| 056      | Salix fragilis<br>Crack Willow   | 69       |                          | 14.0                | 3.1                           | 4.54           | 7.00  | 3            | 3               | 3          | 60% - Fair                   | Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree. |                                 |                              |        |  |       | Protected (significant size)         |
|          | Some deadwood and minor decay sites but otherwise fair condition   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
|          | Protected.   |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |
| 057      | Fraxinus americana<br>White Ash  | 15       |                          | 6.0                 | 1.4                           | 2.48           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area  | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Young ash in fair condition at this time   |          |                          |                     |                               |                |       |              |                 |            | Totals:                      | 100.0%  |                                 | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |                              |   |                                 |                              |        |  |       |                                      |



| Tree Num | Botanical/<br>Common Name<br>Owner  | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |        | Anticipated Injury From Encroachment % |       | Status                               |
|----------|---|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|------------------------------|--|---------------------------------|------------------------------|--------|--|-------|--------------------------------------|
|          |   |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |                              |  |                                 | Base                         | Crown  | Base                                   | Crown |                                      |
| 058      | Populus canadensis [deltoides x nigra]<br>Carolina Poplar   | 11       |                          | 6.0                 | 1.2                           | 2.46           | 3.00  | 3            | 4               | 3          | 65% - Good                   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair-good condition - growing among phragmites  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |        |  |       |                                      |
| 059      | Populus canadensis [deltoides x nigra]<br>Carolina Poplar   | 10       |                          | 4.0                 | 1.2                           | 2.45           | 2.00  | 3            | 4               | 3          | 65% - Good                   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair-good condition - growing among phragmites  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |        |  |       |                                      |
| 060      | Populus canadensis [deltoides x nigra]<br>Carolina Poplar   | 21       |                          | 6.0                 | 1.7                           | 2.50           | 3.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair condition although location poor and appears stressed  |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |        |  |       |                                      |
| 061      | Populus canadensis [deltoides x nigra]<br>Carolina Poplar   | 25       |                          | 4.0                 | 1.9                           | 2.52           | 2.00  | 3            | 3               | 3          | 60% - Fair                   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair condition - growing in poor location   |          |                          |                     |                               |                |       |              |                 |            | Totals:                      |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |                              |  |                                 |                              |        |  |       |                                      |

| Tree Num | Botanical/<br>Common Name<br><br>Owner  | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related<br><br>Comments – Construction Related | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |        | Anticipated Injury From Encroachment % |       | Status                               |
|----------|---|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|---|--|---------------------------------|------------------------------|--------|--|-------|--------------------------------------|
|          |   |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |   |  |                                 | Base                         | Crown  | Base                                   | Crown |                                      |
|          |   |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |
| 062      | Populus canadensis [deltoides x nigra]<br>Carolina Poplar   | 20       |                          | 6.0                 | 1.7                           | 2.50           | 3.00  | 3            | 3               | 3          | 60% - Fair  | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair condition - although appears somewhat stressed over past season  |          |                          |                     |                               |                |       |              |                 |            | Totals:   |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |
| 063      | Robinia pseudoacacia<br>Black Locust  | 27       |                          | 8.0                 | 1.9                           | 2.54           | 4.00  | 3            | 3               | 3          | 60% - Fair  | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (within zone of construction) |
|          | Fair condition - growing in poor location however   |          |                          |                     |                               |                |       |              |                 |            | Totals:   |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |
| 064      | Fraxinus americana<br>White Ash   | 50       |                          | 12.0                | 2.6                           | 3.25           | 6.00  | 0            | 1               | 0          | 0% - Dead/Dying   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (dead tree)                   |
|          | Dead Ash - Recommended for removal  |          |                          |                     |                               |                |       |              |                 |            | Totals:   |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe. - Dead Tree  |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |
| 065      | Fraxinus americana<br>White Ash   | 49       |                          | 10.0                | 2.6                           | 3.24           | 5.00  | 0            | 1               | 0          | 0% - Dead/Dying   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (dead tree)                   |
|          | Dead Ash - Recommended for removal  |          |                          |                     |                               |                |       |              |                 |            | Totals:   |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe. - Dead Tree  |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |
| 066      | Fraxinus americana<br>White Ash   | 45       |                          | 10.0                | 2.5                           | 3.22           | 5.00  | 0            | 1               | 0          | 0% - Dead/Dying   | Temporary Use Area                       | 0.0                             | 100.0%                       | 100.0% | 25.0%                                  | 0.0%  | Remove (dead tree)                   |
|          | Dead Ash - Recommended for removal  |          |                          |                     |                               |                |       |              |                 |            | Totals:   |  | 100.0%                          | 100.0%                       | 25.0%  | 0.0%                                   |       |                                      |
|          | In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe. - Dead Tree  |          |                          |                     |                               |                |       |              |                 |            |   |  |                                 |                              |        |  |       |                                      |

| Tree Num | Botanical/<br>Common Name<br><br>Owner   | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br><br>Comments – Construction Related  | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                       |
|----------|--|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|--|--|---------------------------------------|------------------------------------|-------|---|-------|------------------------------|
|          |  |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |  |  |                                       | Base                               | Crown | Base  | Crown |                              |
|          |  |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 067      | Ulmus rubra<br>Red Elm                   | 10          |                             | 4.0                    | 1.2                              | 2.45              | 2.00  | 4               | 4                  | 4             | 80% - Good<br><br>Good condition although growing in poor location directly abutting fence<br><br>Protected. |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client/Neighbor Shared<br>Ownership Tree |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 068      | Ulmus rubra<br>Red Elm                   | 10          |                             | 4.0                    | 1.2                              | 2.45              | 2.00  | 4               | 4                  | 4             | 80% - Good<br><br>Good condition although growing in poor location directly abutting fence<br><br>Protected. |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client/Neighbor Shared<br>Ownership Tree |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 069      | Acer platanoides<br>Norway Maple         | 30          |                             | 8.0                    | 2.0                              | 2.55              | 4.00  | 4               | 4                  | 4             | 80% - Good<br><br>Protected.   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                              |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 070      | Ulmus rubra<br>Red Elm                   | 10          |                             | 4.0                    | 1.2                              | 2.45              | 2.00  | 3               | 4                  | 4             | 72% - Good<br><br>Protected.   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                              |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 071      | Acer negundo<br>Boxelder                 | 23          |                             | 6.0                    | 1.8                              | 2.52              | 3.00  | 4               | 4                  | 4             | 80% - Good<br><br>Protected.   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                              |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 072      | Ulmus rubra<br>Red Elm                   | 19          |                             | 8.0                    | 1.6                              | 2.50              | 4.00  | 4               | 4                  | 4             | 80% - Good<br><br>Protected.   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                              |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |
| 073      | Fraxinus americana<br>White Ash          | 14          |                             | 6.0                    | 1.4                              | 2.47              | 3.00  | 4               | 4                  | 4             | 80% - Good<br><br>Protected.   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                              |             |                             |                        |                                  |                   |       |                 |                    |               |  |  |                                       |                                    |       |   |       |                              |

| Tree Num | Botanical/<br>Common Name       | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related   | Construction /<br>Demolition / Access<br>Phase | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |       | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                       |
|----------|---------------------------------|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|--|--|---------------------------------------|------------------------------------|-------|---|-------|------------------------------|
|          |                                 |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |  |  |                                       | Base                               | Crown | Base  | Crown |                              |
| 074      | Fraxinus americana<br>White Ash | 17          |                             | 6.0                    | 1.5                              | 2.48              | 3.00  | 4               | 4                  | 4             | 80% - Good   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Appears healthy at this time - Adjacent small size group of ash (additional small trees) extends into woodlot east. All 5-7 cm |  |                                       |                                    |       |   |       |                              |
| 075      | Fraxinus americana<br>White Ash | 10          |                             | 4.0                    | 1.2                              | 2.45              | 2.00  | 3               | 3                  | 2             | 51% - Fair   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Under tree 49 - trunk slightly twisted/kinked and defect on trunk  |  |                                       |                                    |       |   |       |                              |
| 076      | Salix fragilis<br>Crack Willow  | 34          |                             | 10.0                   | 2.2                              | 3.17              | 5.00  | 4               | 4                  | 4             | 80% - Good   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Protected.   |  |                                       |                                    |       |   |       |                              |
| 077      | Salix fragilis<br>Crack Willow  | 38          |                             | 10.0                   | 2.3                              | 3.19              | 5.00  | 4               | 2                  | 4             | 60% - Fair   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | All regrowth from downed limb. Collapsed codominant of tree 78   |  |                                       |                                    |       |   |       |                              |
| 078      | Salix fragilis<br>Crack Willow  | 60          |                             | 14.0                   | 2.9                              | 3.90              | 7.00  | 4               | 3                  | 4             | 72% - Good   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Decay and some deadwood present - otherwise fair condition   |  |                                       |                                    |       |   |       |                              |
| 079      | Salix fragilis<br>Crack Willow  | 14          |                             | 4.0                    | 1.4                              | 2.47              | 2.00  | 4               | 4                  | 3             | 72% - Good   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Understory to other Willow in area   |  |                                       |                                    |       |   |       |                              |
| 080      | Salix fragilis<br>Crack Willow  | 47          |                             | 8.0                    | 2.6                              | 3.24              | 4.00  | 4               | 3                  | 4             | 72% - Good   |  |                                       |                                    |       |   |       | Protected (significant size) |
|          | Client Tree                     |             |                             |                        |                                  |                   |       |                 |                    |               | Some decay sites present   |  |                                       |                                    |       |   |       |                              |
|          |                                 |             |                             |                        |                                  |                   |       |                 |                    |               | Protected.   |  |                                       |                                    |       |   |       |                              |

| Tree Num | Botanical/<br>Common Name<br>Owner  | DBH<br>(cm) | Trunk Lean and<br>Direction | Canopy<br>Diameter (M) | Critical Root Zone<br>Radius (M) | TPZ Radius<br>(M) |       | Condition       |                    |               | Comments – Condition Related<br>Comments – Construction Related | Construction /<br>Demolition / Access<br>Phase  | Minimum<br>Distance From<br>Phase (M) | TPZ<br>Encroachment<br>(Area/Area) |        | Anticipated<br>Injury From<br>Encroachment<br>% |       | Status                                     |
|----------|---|-------------|-----------------------------|------------------------|----------------------------------|-------------------|-------|-----------------|--------------------|---------------|---|---|---------------------------------------|------------------------------------|--------|---|-------|--|
|          |   |             |                             |                        |                                  | Base              | Crown | Health<br>(0-5) | Soundness<br>(0-5) | Form<br>(0-5) |   |   |                                       | Base                               | Crown  | Base  | Crown |  |
| 081      | Rhus spp<br>Sumac Species   | 13          |                             | 6.0                    | 1.3                              | 2.46              | 3.00  | 4               | 4                  | 4             | 80% - Good  | Construction activities<br>(including access) do not<br>encroach upon the<br>protected root zone, or<br>crown of this tree. |                                       |                                    |        |   |       | Protected (significant<br>size)            |
|          | Sumac - understory in area of willows   |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
|          | Protected.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
| 082      | Populus nigra<br>Lombardy Poplar  | 14          |                             | 2.0                    | 1.4                              | 2.47              | 1.00  | 4               | 4                  | 4             | 80% - Good  | Temporary Use Area  | 2.5                                   | 0.1%                               |        | 0.0%  |       | Injured (minor<br>encroachment on<br>BTPZ) |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   | 0.1%  | 0.0%                                  | 0.0%                               | 0.0%   |   |       |  |
|          | Encroachment (all phases): Minor.<br>Anticipated Injury: Negligible.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
| 083      | Populus nigra<br>Lombardy Poplar  | 14          |                             | 4.0                    | 1.4                              | 2.47              | 2.00  | 4               | 4                  | 4             | 80% - Good  | Temporary Use Area  | 0.0                                   | 100.0%                             | 100.0% | 25.0%   | 0.0%  | Remove (within zone<br>of construction)    |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   | 100.0%  | 100.0%                                | 25.0%                              | 0.0%   |   |       |  |
|          | Located abutting C/L fence<br><br>In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended. |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
| 084      | Salix fragilis<br>Crack Willow  | 10          |                             | 2.0                    | 1.2                              | 2.45              | 1.00  | 4               | 4                  | 4             | 80% - Good  | Temporary Use Area  | 1.8                                   | 9.5%                               |        | 2.4%  |       | Injured (minor<br>encroachment on<br>BTPZ) |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   | 9.5%  | 0.0%                                  | 2.4%                               | 0.0%   |   |       |  |
|          | Encroachment (all phases): Minor.<br>Anticipated Injury: Negligible.  |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
| 085      | Platanus acerifolia<br>London Planetree   | 23          |                             | 8.0                    | 1.8                              | 2.52              | 4.00  | 4               | 4                  | 4             | 80% - Good  | Temporary Use Area  | 1.0                                   | 26.3%                              | 41.5%  | 6.6%  | 0.0%  | Remove (within zone<br>of construction)    |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   | 26.3%   | 41.5%                                 | 6.6%                               | 0.0%   |   |       |  |
|          | Located abutting C/L fence<br><br>At edge of open area (lawn w trees and<br>phragmite at edge of property area)<br>proposed for temp use parking/storage            |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |
| 086      | Fraxinus americana<br>White Ash   | 11          |                             | 2.0                    | 1.2                              | 2.46              | 1.00  | 2               | 2                  | 2             | 40% - Poor  | Temporary Use Area  | 0.0                                   | 100.0%                             | 100.0% | 25.0%   | 0.0%  | Remove (within zone<br>of construction)    |
|          | Totals:   |             |                             |                        |                                  |                   |       |                 |                    |               |   | 100.0%  | 100.0%                                | 25.0%                              | 0.0%   |   |       |  |
|          | Growing through fence.<br><br>In Zone: Temporary Use Area.<br>Encroachment (all phases): Severe.<br>Anticipated Injury: Not survivable.<br>Removal recommended.     |             |                             |                        |                                  |                   |       |                 |                    |               |   |   |                                       |                                    |        |   |       |  |

| Tree Num | Botanical/<br>Common Name     | DBH (cm) | Trunk Lean and Direction | Canopy Diameter (M) | Critical Root Zone Radius (M) | TPZ Radius (M) |       | Condition    |                 |            | Comments – Condition Related   | Construction / Demolition / Access Phase | Minimum Distance From Phase (M) | TPZ Encroachment (Area/Area) |       | Anticipated Injury From Encroachment % |       | Status                               |
|----------|-------------------------------|----------|--------------------------|---------------------|-------------------------------|----------------|-------|--------------|-----------------|------------|--|--|---------------------------------|------------------------------|-------|--|-------|--------------------------------------|
|          |                               |          |                          |                     |                               | Base           | Crown | Health (0-5) | Soundness (0-5) | Form (0-5) |  |  |                                 | Base                         | Crown | Base                                   | Crown |                                      |
| 087      | Populus nigra Lombardy Poplar | 23       |                          | 6.0                 | 1.8                           | 2.52           | 3.00  | 4            | 4               | 4          | 80% - Good   | Temporary Use Area                       | 0.0                             | 63.4%                        | 61.3% | 15.9%                                  | 0.0%  | Remove (within zone of construction) |
|          |                               |          |                          |                     |                               |                |       |              |                 |            | Totals:  |  | 63.4%                           | 61.3%                        | 15.9% | 0.0%                                   |       |                                      |
|          | Client Tree                   |          |                          |                     |                               |                |       |              |                 |            | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |  |                                 |                              |       |  |       |                                      |
| 088      | Ulmus pumila Siberian Elm     | 10       |                          | 2.0                 | 1.2                           | 2.45           | 1.00  | 2            | 2               | 2          | 40% - Poor   | Temporary Use Area                       | 1.4                             | 17.2%                        |       | 4.3%                                   |       | Remove (health or soundness)         |
|          |                               |          |                          |                     |                               |                |       |              |                 |            | Totals:  |  | 17.2%                           | 0.0%                         | 4.3%  | 0.0%                                   |       |                                      |
|          | Client Tree                   |          |                          |                     |                               |                |       |              |                 |            | Bark beetle and poor condition - removal recommended due to condition  |  |                                 |                              |       |  |       |                                      |

## 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, Michael 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-1118A I have been involved in the field of Arboriculture in a full-time capacity for a period of more than 15 years.



Michael R. Plowman  
Assoc. Dipl. Horticulture  
ISA Certified Arborist: ON-1118A

GLN Farm and Forest Research Co Ltd  
905 827 1134 – tel  
905 599 1290 – cell  
mrplowman@glnconsulting.com  
mrplowman.glnconsulting@gmail.com

## 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.

3 December 2023



Michael R. Plowman  
Assoc. Dipl. Horticulture  
ISA Certified Arborist: ON-1118A

GLN Farm and Forest Research Co Ltd  
905 827 1134 – tel  
905 599 1290 – cell  
mrplowman@glnconsulting.com  
mrplowman.glnconsulting@gmail.com

## 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 ±50cm, 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   |
|----------------------|--|--|--|
| <b>0</b>             | Dead   | Dead   | Dead   |
| <b>1 (Very Poor)</b> | Appears to be dying and in last stages 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  |
| <b>2 (Poor)</b>      | 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.                |
| <b>3 (Fair)</b>      | 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. |

|   |  |   |   |
|---|--|---|---|
| <b>4 (Good)</b>   | 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. |
| <b>5 (Excellent)</b>  | 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.   |
| <p>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 10<sup>th</sup> Edition.</p> <p>Overall Condition Rating is calculated as the Harmonic Mean of the Health, Structure and Form Ratings.</p> |  |   |   |

**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 10<sup>th</sup> Edition.

**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' pre construction 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' pre construction 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 tree 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*)

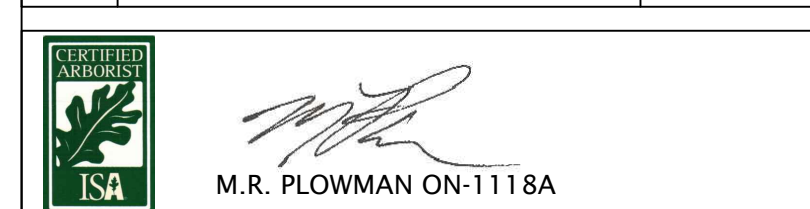
If required, additional drawings may be rendered as follows:

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

| TREE INVENTORY |  |                                       |          |                |                                       |                                      |  |
|----------------|--|---------------------------------------|----------|----------------|---------------------------------------|--------------------------------------|--|
| Tree #         | Species                                | Common                                | DBH (cm) | Condition %    | Ownership                             | Status                               | Reason/Comments  |
| 1              | Pinus nigra                            | Austrian pine                         | 50       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 2              | Pinus nigra                            | Austrian pine                         | 42       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 3              | Pinus nigra                            | Austrian pine                         | 29       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) |  |
| 4              | Pinus nigra                            | Austrian pine                         | 40       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 5              | Pinus nigra                            | Austrian pine                         | 35       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 6              | Pinus nigra                            | Austrian pine                         | 35       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 7              | Pinus nigra                            | Austrian pine                         | 31       | 51 - Fair      | Client Tree                           | Remove (within zone of construction) |  |
| 8              | Pinus nigra                            | Austrian pine                         | 47       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 9              | Pinus nigra                            | Austrian pine                         | 37       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) |  |
| 10             | Pinus nigra                            | Austrian pine                         | 34       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 11             | Pinus nigra                            | Austrian pine                         | 40       | 65 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 12             | Pinus nigra                            | Austrian pine                         | 42       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 13             | Pinus nigra                            | Austrian pine                         | 35       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 14             | Pinus nigra                            | Austrian pine                         | 54       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 15             | Acer rubrum                            | red maple, scarlet maple, swamp maple | 41       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 16             | Acer rubrum                            | red maple, scarlet maple, swamp maple | 29       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 17             | Acer platanoides                       | Norway maple                          | 26       | 40 - Poor      | Client Tree                           | Remove (health or soundness)         | Removal Recommended due to condition   |
| 18             | Betula pendula                         | European white birch                  | 19       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 19             | Acer platanoides                       | Norway maple                          | 35       | 60 - Fair      | Client Tree                           | Injured (major encroachment on BTPZ) | Encroachment (all phases): Major. Anticipated Injury: Negligible.  |
| 20             | Acer platanoides                       | Norway maple                          | 36       | 60 - Fair      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 21             | Carpinus betulus                       | European hornbeam                     | 39       | 65 - Good      | Client Tree                           | Injured (major encroachment on BTPZ) | Encroachment (all phases): Major. Anticipated Injury: Minor.   |
| 22             | Carpinus betulus                       | European hornbeam                     | 37       | 60 - Fair      | Client Tree                           | Injured (major encroachment on BTPZ) | Encroachment (all phases): Major. Anticipated Injury: Minor.   |
| 23             | Acer platanoides                       | Norway maple                          | 34       | 60 - Fair      | Client Tree                           | Injured (major encroachment on BTPZ) | Encroachment (all phases): Major. Anticipated Injury: Minor.   |
| 24             | Acer platanoides                       | Norway maple                          | 32       | 51 - Fair      | Client Tree                           | Injured (major encroachment on BTPZ) | Encroachment (all phases): Major. Anticipated Injury: Minor.   |
| 25             | Acer platanoides                       | Norway maple                          | 28       | 60 - Fair      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 26             | Acer saccharum                         | sugar maple, rock maple, hard maple   | 59       | 30 - Poor      | Client Tree                           | Remove (health or soundness)         | Removal Recommended due to condition   |
| 27             | Acer platanoides                       | Norway maple                          | 26       | 60 - Fair      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 28             | Acer saccharum                         | sugar maple, rock maple, hard maple   | 86       | 33 - Poor      | Client Tree                           | Remove (health or soundness)         | Removal Recommended due to condition   |
| 29             | Populus nigra                          | Lombardy poplar                       | 22       | 60 - Fair      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 30             | Acer platanoides                       | Norway maple                          | 20       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 31             | Pinus nigra                            | Austrian pine                         | 40       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 32             | Pinus nigra                            | Austrian pine                         | 36       | 72 - Good      | Client Tree                           | Remove (within zone of construction) | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| 33             | Pinus nigra                            | Austrian pine                         | 29       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 34             | Pinus nigra                            | Austrian pine                         | 24       | 0 - Dead/Dying | Client Tree                           | Remove (dead tree)                   | Remove - Dead Tree   |
| 35             | Pinus nigra                            | Austrian pine                         | 28       | 72 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 36             | Pinus nigra                            | Austrian pine                         | 35       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 37             | Ulmus pumila                           | Siberian elm                          | 27       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 38             | Pinus nigra                            | Austrian pine                         | 50       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 39             | Pinus nigra                            | Austrian pine                         | 27       | 80 - Good      | Client Tree                           | Remove (within zone of construction) | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| 40             | Acer platanoides                       | Norway maple                          | 29       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 41             | Pinus nigra                            | Austrian pine                         | 37       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 42             | Pinus nigra                            | Austrian pine                         | 40       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 43             | Acer platanoides                       | Norway maple                          | 53       | 30 - Poor      | Client Tree                           | Remove (health or soundness)         | Removal Recommended due to condition   |
| 44             | Pinus nigra                            | Austrian pine                         | 35       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 45             | Pinus nigra                            | Austrian pine                         | 38       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 46             | Pinus nigra                            | Austrian pine                         | 31       | 80 - Good      | Client Tree                           | Remove (within zone of construction) | Within open area (currently lawn w trees) proposed for temp use parking/storage  |
| 47             | Pinus nigra                            | Austrian pine                         | 36       | 80 - Good      | Client Tree                           | Remove (within zone of construction) |  |
| 48             | Acer platanoides                       | Norway maple                          | 33       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 49             | Pinus nigra                            | Austrian pine                         | 37       | 72 - Good      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 50             | Pinus nigra                            | Austrian pine                         | 28       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 51             | Salix fragilis                         | crack willow                          | 35       | 65 - Good      | Client Tree                           | Protected (significant size)         |  |
| 52             | Pinus nigra                            | Austrian pine                         | 45       | 72 - Good      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 53             | Salix fragilis                         | crack willow                          | 68       | 65 - Good      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 54             | Salix fragilis                         | crack willow                          | 55       | 60 - Fair      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 55             | Salix fragilis                         | crack willow                          | 43       | 60 - Fair      | Client Tree                           | Protected (significant size)         |  |
| 56             | Salix fragilis                         | crack willow                          | 69       | 60 - Fair      | Client Tree                           | Protected (significant size)         |  |
| 57             | Fraxinus americana                     | white ash                             | 15       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 58             | Populus canadensis [deltoides x nigra] | Carolina poplar                       | 11       | 65 - Good      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 59             | Populus canadensis [deltoides x nigra] | Carolina poplar                       | 10       | 65 - Good      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 60             | Populus canadensis [deltoides x nigra] | Carolina poplar                       | 21       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 61             | Populus canadensis [deltoides x nigra] | Carolina poplar                       | 25       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 62             | Populus canadensis [deltoides x nigra] | Carolina poplar                       | 20       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 63             | Robinia pseudoacacia                   | black locust                          | 27       | 60 - Fair      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 64             | Fraxinus americana                     | white ash                             | 50       | 0 - Dead/Dying | Client Tree                           | Remove (dead tree)                   | Remove - Dead Tree   |
| 65             | Fraxinus americana                     | white ash                             | 49       | 0 - Dead/Dying | Client Tree                           | Remove (dead tree)                   | Remove - Dead Tree   |
| 66             | Fraxinus americana                     | white ash                             | 45       | 0 - Dead/Dying | Client Tree                           | Remove (dead tree)                   | Remove - Dead Tree   |
| 67             | Ulmus rubra                            | Red elm                               | 10       | 80 - Good      | Client/Neighbor Shared Ownership Tree | Protected (significant size)         |  |
| 68             | Ulmus rubra                            | Red elm                               | 10       | 80 - Good      | Client/Neighbor Shared Ownership Tree | Protected (significant size)         |  |
| 69             | Acer platanoides                       | Norway maple                          | 30       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 70             | Ulmus rubra                            | Red elm                               | 10       | 72 - Good      | Client Tree                           | Protected (significant size)         |  |
| 71             | Acer negundo                           | boxelder, Ash-leaved Maple            | 23       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 72             | Ulmus rubra                            | Red elm                               | 19       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 73             | Fraxinus americana                     | white ash                             | 14       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 74             | Fraxinus americana                     | white ash                             | 17       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 75             | Fraxinus americana                     | white ash                             | 10       | 51 - Fair      | Client Tree                           | Protected (significant size)         |  |
| 76             | Salix fragilis                         | crack willow                          | 34       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 77             | Salix fragilis                         | crack willow                          | 38       | 60 - Fair      | Client Tree                           | Protected (significant size)         |  |
| 78             | Salix fragilis                         | crack willow                          | 60       | 72 - Good      | Client Tree                           | Protected (significant size)         |  |
| 79             | Salix fragilis                         | crack willow                          | 14       | 72 - Good      | Client Tree                           | Protected (significant size)         |  |
| 80             | Salix fragilis                         | crack willow                          | 47       | 72 - Good      | Client Tree                           | Protected (significant size)         |  |
| 81             | Rhus spp                               | Sumac Species                         | 13       | 80 - Good      | Client Tree                           | Protected (significant size)         |  |
| 82             | Populus nigra                          | Lombardy poplar                       | 14       | 80 - Good      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 83             | Populus nigra                          | Lombardy poplar                       | 14       | 80 - Good      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 84             | Salix fragilis                         | crack willow                          | 10       | 80 - Good      | Client Tree                           | Injured (minor encroachment on BTPZ) | Encroachment (all phases): Minor. Anticipated Injury: Negligible.  |
| 85             | Platanus acerifolia                    | London planetree                      | 23       | 80 - Good      | Client Tree                           | Remove (within zone of construction) | Encroachment (all phases): Major. Anticipated Injury: Minor.   |
| 86             | Fraxinus americana                     | white ash                             | 11       | 40 - Poor      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 87             | Populus nigra                          | Lombardy poplar                       | 23       | 80 - Good      | Client Tree                           | Remove (within zone of construction) | In Zone: Temporary Use Area. Encroachment (all phases): Severe. Anticipated Injury: Not survivable. Removal recommended. |
| 88             | Ulmus pumila                           | Siberian elm                          | 10       | 40 - Poor      | Client Tree                           | Remove (health or soundness)         | Removal Recommended due to condition   |

General Notes

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |



GLN FARM & FOREST RESEARCH CO. LTD.  
251 BRIDGE ROAD  
OKMVILLE, OH US, 43057  
TEL: 608-827-1134

Client: ROSE DEVELOPMENT  
420 SOUTH SERVICE RD EAST OKMVILLE

Drawing Title: TREE INVENTORY TABLE - FOR REFERENCE W TREE PROTECTION PLAN DRAWINGS

|                   |              |          |                 |
|-------------------|--------------|----------|-----------------|
| Date:             | 2-Dec-23     | Project: | 420SOUTHSERVICE |
| Drawn By:         | mo           | Sheet:   | TPR - Inventory |
| Tree Survey Date: | 3/4-Nov-2023 |          |                 |
| TSP Drawings:     | 1 of 1       |          |                 |

### ARBORIST DRAWING LEGEND

- MINIMUM TREE PROTECTION ZONE (MPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE - (POLY MESH) - MIN 1.2M HT
- TREE PROTECTION FENCE - (POLY MESH) - MIN 1.2M HT
- OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
- AREA OF TREE PROTECTION ZONE (TRENCHMENT) EXCAVATION WHICH MAY REQUIRE ROOT PROTECTION
- ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS
- TREE PROTECTION ZONE

### TREE BLOCK SYMBOLS

- TREE TO BE PRESERVED/RETAINED
- CANOPY EXTENT
- DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
- MINIMUM TREE PROTECTION ZONE RADIUS
- TREE TO BE REMOVED PERMIT REQUIRED
- TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
- COLLAPSED TREE - NOT IN INVENTORY
- HEDE/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

### SCHEDULE 1 TREE PROTECTION BARRIER

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, waterboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic w/ wood framing on a wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| Distance of Tree to (DBH) in metres | Tree Protection Zone (m) |
|-------------------------------------|--------------------------|
| < 30                                | 1.8                      |
| 31 - 50                             | 2.4                      |
| 51 - 70                             | 3.0                      |
| 71 - 90                             | 3.6                      |
| 91 - 100                            | 4.2                      |
| 101 - 120                           | 4.8                      |
| 121 - 150                           | 5.4                      |
| 151 - 180                           | 6.0                      |

1. For trees over 100 cm DBH, add 50 cm to the TPZ.  
 2. Roots can extend from the trunk to 2-3 times the distance of the stem to the tree detail (see TABLE 4).  
 3. Diameter at breast height (DBH) measurement of tree for further information.  
 4. Tree Protection Zone distance only to be measured from the outside edge of the tree trunk towards the way and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.



#### General Notes

**TREE PROTECTION PLAN NOTES**

FROM TO SITE DETERMINE THE OWNER MUST CONFIRM THAT NO MANDATORY BYLAW ARE MAKING USE OF THE SITE FOR PROTECTING THE TREES MOST ENDANGERED BY THE WORKING IN CONFORMANCE WITH THE MANDATORY BYLAW CONVENTION ACT AND THAT NO MANDATORY BYLAW WILL BE IMPACTED BY THE PROPOSED WORK.

IT IS THE APPLICANT'S RESPONSIBILITY TO DISCOVER POTENTIAL TREE INVENTORY ON SHARED PROPERTY LOTS WITH THEIR NEIGHBOURS SHOULD SUCH TREES BE INJURED TO THE POINT OF INSTABILITY OR DEATH THE APPLICANT MAY BE HELD LIAISON IN CIVIL COURT OR THROUGH NEGOTIATION THE GREAT APPLICANT SHOULD BE REQUIRED TO REPLACE SUCH TREES TO THE SATISFACTION OF URBAN FORESTRY.

**TREE PROTECTION ZONES**

NO CONSTRUCTION ACTIVITY INCLUDING GRADE CHANGES, SURFACE TREATMENTS OR EXCAVATIONS OF ANY KIND IS PERMITTED WITHIN THE AREA IDENTIFIED ON THE TREE PROTECTION PLAN AS A TREE PROTECTION ZONE (TPZ). NO ROOT CUTTING IS PERMITTED. NO STORAGE OF MATERIALS OR FILL IS PERMITTED WITHIN THE TPZ. NO MOVEMENT OF STORAGE OF MATERIALS OR EQUIPMENT IS PERMITTED WITHIN THE TPZ. THE AREAS IDENTIFIED AS A TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

**TREE PROTECTION BARRIERS**

TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED CAN BE 1.2M (4FT) HIGH AND CONSIST OF CHAIN LINK OR GRASS PLASTIC WOOD BOARDING ON A 2" X 4" WOOD FRAME. ALL SUPPORTS AND BRACING USED TO SECURE BARRIERS SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ.

WHERE SOME FILL OR EXCAVATE HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, WOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TREE PROTECTION ZONE. IF THE TPZ NEEDS TO BE REMOVED TO FACILITATE CONSTRUCTION ACCESS THE TREE PROTECTION BARRIER MUST BE MAINTAINED AT A LESSED DISTANCE AND THE EXPOSED TREE PROTECTED WITH PLYWOOD HOARDING. THIS MUST BE APPROVED BY URBAN FORESTRY.

**FOR TREES ON PRIVATE PROPERTY SITUATED ON OR ADJACENT TO CONSTRUCTION SITES**

WHERE NEARBY TREES TO BE PROTECTED USING PLWOOD CLAD HOARDING ON AN EXCAVATION APPROVED BY URBAN FORESTRY ALL SUPPORTS AND BRACING SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ.

**GENERAL NOTE:**

FROM TO THE COMMENCEMENT OF ANY SITE ACTIVITY THE TREE PROTECTION BARRIERS SPECIFIED ON THIS PLAN MUST BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE TREE PROTECTION BARRIERS MUST REMAIN IN EFFECTIVE CONDITION UNTIL ALL SITE ACTIVITIES INCLUDING LANDSCAPING AND COMPLETE WORKS ARE COMPLETED. SIGNAGE AS SPECIFIED IN SECTION 4 TREE PROTECTION BARRIERS MUST BE ATTACHED TO ALL BARRIERS. WRITTEN NOTICE MUST BE PROVIDED TO URBAN FORESTRY PRIOR TO THE REMOVAL OF THE TREE PROTECTION BARRIERS.

**ARBORESCENTIAL WORK:**

ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TPZ INDICATED ON THIS PLAN WHICH REQUIRE PRUNING MUST BE PRUNED BY A QUALIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY URBAN FORESTRY. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORESCENTIAL PRACTICES. ALL PRUNING MUST BE PERFORMED BY A TREE PROFESSIONAL WHO HAS RECEIVED APPROVAL FROM URBAN FORESTRY TO BE PERFORMED. ALL PRUNING MUST BE LIMITED TO HAND CUTTING OR BY USING A LOW PRESSURE PRUNING AND TRIMMING TRIMMER. ALL PRUNING MUST BE LIMITED TO THE REMOVAL OF DEAD, DAMAGED, DISEASED, OR DEFECTIVE BRANCHES. ALL PRUNING MUST BE LIMITED TO THE REMOVAL OF DEAD, DAMAGED, DISEASED, OR DEFECTIVE BRANCHES. ALL PRUNING MUST BE LIMITED TO THE REMOVAL OF DEAD, DAMAGED, DISEASED, OR DEFECTIVE BRANCHES.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |

M.R. FLOWMAN ON-1118A  
 GLN  
 CLN FARM & FOREST RESEARCH CO. LTD.  
 251 BRIDGE STREET, SUITE 101  
 OAKVILLE, ON L6L 2H5  
 TEL: 905-827-1134

**Client:** ROSE DEVELOPMENT  
 420 SOUTH SERVICE RD EAST OAKVILLE

**Drawing Title:** SITE OVERVIEW W AERIAL IMAGERY

| Date:             | 2-Dec-23     | Project:        |
|-------------------|--------------|-----------------|
| Scale:            | 1 : 500      | 420SOUTHSERVICE |
| Drawn By:         | mo           | Sheet:          |
| Tree Survey Date: | 3/4 Nov-2023 | TPR-401         |
| TSP Drawings:     | 1 of 7       |                 |

### ARBORIST DRAWING LEGEND

- MINIMUM TREE PROTECTION ZONE (MPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE - (POLY MESH) - MIN 1.2M HT
- TREE PROTECTION FENCE - (POLY MESH) - MIN 1.2M HT
- OPTIMAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
- AREA OF TREE PROTECTION ZONE (INDETERMINATE EXCAVATION WHICH MAY REQUIRE ROOT ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS)
- TREE PROTECTION ZONE

### TREE BLOCK SYMBOLS

- TREE TO BE PRESERVED/RETAINED
- CANOPY EXTENT
- DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
- MINIMUM TREE PROTECTION ZONE RADIUS
- TREE TO BE REMOVED PERMIT REQUIRED
- TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
- COLLAPSED TREE - NOT IN INVENTORY
- HEDE/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

#### Pre-Construction Phase

This is the commencement of construction. Pre-approval hearing, as well as other related work, must be completed prior to the start of construction.

- All Tree Protection Hoarding must be installed prior to the start of construction. The height of the hoarding shall be 1.2m.
- It is advised to temporarily fill all existing excavations for the purpose of preventing soil erosion. This is to be done in advance of the start of construction. The filling shall be done using suitable material such as crushed stone or concrete.
- It is advised to temporarily fill all existing excavations for the purpose of preventing soil erosion. This is to be done in advance of the start of construction. The filling shall be done using suitable material such as crushed stone or concrete.
- All tree protection hoarding must be installed prior to the start of construction. The height of the hoarding shall be 1.2m. The hoarding shall be made of wood or metal, and shall be supported by stakes or posts driven into the ground at intervals of 2.4m.

#### During and Post-Construction

Upon completion of the proposed work, the contractor shall be responsible for the following to ensure the protection of the trees and shrubs.

- Upon completion of construction and approval of work from the Town of Oakville, the contractor shall remove the Tree Protection Hoarding.
- Replacement of the Hoarding, which may be required for the purpose of maintaining the protection of the trees and shrubs, shall be done in accordance with the approved Tree Protection Plan.
- Any and all work shall be done in accordance with the approved Tree Protection Plan. The contractor shall be responsible for the removal and replacement of any trees or shrubs that have been removed or damaged during the construction process.

### OAKVILLE

## SCHEDULE 1 TREE PROTECTION BARRIER

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, w/afboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic w/ snow fencing on a wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize disturbing roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| DBH    | Tree Protection Zone |
|--------|----------------------|
| 10-20  | 1.8                  |
| 21-30  | 2.4                  |
| 31-40  | 3.0                  |
| 41-50  | 3.6                  |
| 51-60  | 4.2                  |
| 61-70  | 4.8                  |
| 71-80  | 5.4                  |
| 81-90  | 6.0                  |
| 91-100 | 6.6                  |

- For trees over 100 cm DBH, add 50 cm to the TPZ.
- Roots can extend from the trunk to 2-3 times the diameter of the stem (see Detail T1 (CONSOLE 4) for further information).
- Distance of street height (DBH) measurement of tree from base of CP.
- Tree Protection Zone distance can be measured from the outside edge of the tree from the trunk and may be limited by an existing paved surface, provided the existing paved surface meets street throughout the construction work.



#### General Notes

**TREE PROTECTION PLAN NOTES**  
 PRIOR TO THE COMMENCEMENT OF CONSTRUCTION THE OWNER MUST CONFIRM THAT NO MANDATORY BIRD NESTS ARE PRESENT ON THE SITE FOR THE PROPOSED WORK. THE OWNER IS RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT NO MANDATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK.

IF THE APPLICANT'S RESPONSIBILITY TO IDENTIFY POTENTIAL BIRD NESTS IS DELETED FROM THE PROTECTION PLAN, THE APPLICANT MUST BE HELD RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT NO MANDATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK. IF A BIRD NEST IS IDENTIFIED AND IS NOT IDENTIFIED AS A MANDATORY BIRD NEST, THE APPLICANT SHALL BE HELD RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT THE BIRD NEST IS NOT A MANDATORY BIRD NEST.

**TREE PROTECTION ZONES**  
 NO CONSTRUCTION ACTIVITY INCLUDING GRADE CHANGES, SURFACE TREATMENT OR EXCAVATIONS OF ANY KIND IS PERMITTED WITHIN THE TREE PROTECTION ZONE (TPZ) OR ROOT CUTTING PERMITTED. NO STORAGE OF MATERIALS OR FILL IS PERMITTED WITHIN THE TPZ. NO PERMITTED WITHIN THE TPZ. THE APPLICANT SHALL BE HELD RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT NO MANDATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK.

**TREE PROTECTION BARRIERS**  
 TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED CAN BE 1.2M (4FT) HIGH AND CONSIST OF CHAIN LINK OR GALVANIZED STEEL SHEET PILING ON A 2" X 4" WOOD FRAME. ALL SUPPORTS AND BRACING USED TO SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. WHERE SOME FILL OR EXCAVATION HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, PLYWOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TPZ. THE TPZ MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. THE TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

**TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED**  
 CAN BE 1.2M (4FT) HIGH AND CONSIST OF CHAIN LINK OR GALVANIZED STEEL SHEET PILING ON A 2" X 4" WOOD FRAME. ALL SUPPORTS AND BRACING USED TO SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. WHERE SOME FILL OR EXCAVATION HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, PLYWOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TPZ. THE TPZ MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. THE TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

**TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED**  
 CAN BE 1.2M (4FT) HIGH AND CONSIST OF CHAIN LINK OR GALVANIZED STEEL SHEET PILING ON A 2" X 4" WOOD FRAME. ALL SUPPORTS AND BRACING USED TO SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. WHERE SOME FILL OR EXCAVATION HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, PLYWOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TPZ. THE TPZ MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. THE TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

**GENERAL NOTE**  
 PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY THE TREE PROTECTION BARRIERS SPECIFIED ON THIS PLAN MUST BE INSTALLED AND WRITTEN NOTES PROVIDED TO URBAN FORESTRY SERVICES. THE TREE PROTECTION BARRIERS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ. THE TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

**APPROPRIATE WORK**  
 ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TPZ MUST BE PROTECTED BY A QUALIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY URBAN FORESTRY. ALL PRUNING OF ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULAR STANDARDS. ROOTS LOCATED OUTSIDE THE TPZ MUST BE PROTECTED FROM URBAN FORESTRY TO BE MAINTAINED MUST FIRST BE IDENTIFIED BY HAND DIGGING OR BY USING A NON-DISTURBING GROUND PENETRATING RADIAR (GPR) OR OTHER NON-DISTURBING GROUND PENETRATING TECHNIQUE. THIS WILL ALLOW A PROPER PRUNING CUT AND MINIMIZE DAMAGE TO THE ROOTS. THE ARBORIST/TREE PROFESSIONAL SHOWN ON THIS PLAN IS NOT RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT NO MANDATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK. THE APPLICANT SHALL BE HELD RESPONSIBLE FOR IDENTIFYING AND CONFIRMING THAT NO MANDATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |

M.R. PLOWMAN ON-1118A

CLN FARM & FOREST RESEARCH CO. LTD.  
 2511 DUNDAS ST. W.  
 OAKVILLE, ON L6L 2H5  
 TEL: 905-827-1134

Client: ROSE DEVELOPMENT  
 420 SOUTH SERVICE RD EAST OAKVILLE

Drawing Title: TREE PROTECTION PLAN - SITE OVERVIEW (AERIAL IMAGERY REMOVED)

|               |          |                   |                 |
|---------------|----------|-------------------|-----------------|
| Date:         | 2-Dec-23 | Project:          | 420SOUTHSERVICE |
| Scale:        | 1 : 500  | Sheet:            |                 |
| Drawn By:     | mo       | Tree Survey Date: | 3/4-Nov-2023    |
| TPZ Drawings: | 2 of 7   | TPZ Reference:    | TPR-402         |



### ARBORIST DRAWING LEGEND

- MINIMUM TREE PROTECTION ZONE (MTPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
- TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
- OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
- AREA OF TREE PROTECTION ZONE REMEDIATION / EXCAVATION WHICH MAY REQUIRE ROOT ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS
- TREE PROTECTION ZONE

### TREE BLOCK SYMBOLS

- TREE TO BE PRESERVED/RETAINED
- DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
- MINIMUM TREE PROTECTION ZONE RADII
- TREE TO BE REMOVED PERMIT REQUIRED
- TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
- COLLAPSED TREE - NOT IN INVENTORY
- HEGGE/SHRUB (SMALL SIZE PROTECTION OPTIONAL)



### Pre-Construction Phase

1. All trees to be preserved shall be inspected and tagged by the Arborist prior to construction. The Arborist shall provide a Tree Protection Plan (TPP) to the Owner and the Contractor. The TPP shall include the following information:

- All trees to be preserved shall be inspected and tagged by the Arborist prior to construction. The Arborist shall provide a Tree Protection Plan (TPP) to the Owner and the Contractor. The TPP shall include the following information:
- All trees to be preserved shall be inspected and tagged by the Arborist prior to construction. The Arborist shall provide a Tree Protection Plan (TPP) to the Owner and the Contractor. The TPP shall include the following information:
- All trees to be preserved shall be inspected and tagged by the Arborist prior to construction. The Arborist shall provide a Tree Protection Plan (TPP) to the Owner and the Contractor. The TPP shall include the following information:
- All trees to be preserved shall be inspected and tagged by the Arborist prior to construction. The Arborist shall provide a Tree Protection Plan (TPP) to the Owner and the Contractor. The TPP shall include the following information:

### During and Post-Construction

1. The Contractor shall ensure that all trees to be preserved are protected throughout the construction process. This includes the installation and maintenance of Tree Protection Barriers (TPBs) and the use of Tree Protection Zones (TPZs).

- The Contractor shall ensure that all trees to be preserved are protected throughout the construction process. This includes the installation and maintenance of Tree Protection Barriers (TPBs) and the use of Tree Protection Zones (TPZs).
- The Contractor shall ensure that all trees to be preserved are protected throughout the construction process. This includes the installation and maintenance of Tree Protection Barriers (TPBs) and the use of Tree Protection Zones (TPZs).
- The Contractor shall ensure that all trees to be preserved are protected throughout the construction process. This includes the installation and maintenance of Tree Protection Barriers (TPBs) and the use of Tree Protection Zones (TPZs).
- The Contractor shall ensure that all trees to be preserved are protected throughout the construction process. This includes the installation and maintenance of Tree Protection Barriers (TPBs) and the use of Tree Protection Zones (TPZs).

### SCHEDULE 1 TREE PROTECTION BARRIER

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, w/afelboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic w/ wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| Distance of Tree to DBH | Distance from Tree to Barrier in metres |
|-------------------------|---|
| < 10                    | 1.8                                     |
| 10 - 20                 | 2.4                                     |
| 20 - 30                 | 3.0                                     |
| 30 - 40                 | 3.6                                     |
| 40 - 50                 | 4.2                                     |
| 50 - 60                 | 4.8                                     |
| 60 - 70                 | 5.4                                     |
| 70 - 80                 | 6.0                                     |
| 80 - 90                 | 6.6                                     |
| 90 - 100                | 7.2                                     |

1. For trees over 100 cm DBH, add 50 cm to the TPZ  
 2. Roots are added from the trunk to 2-3 times the diameter of the tree (see Detail T-1 (CONSOLE 4))  
 3. Diameter of lowest large DBH measurement of tree  
 4. Tree Protection Zone distance may be measured from the widest edge of the tree canopy the way the tree may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.

### General Notes

TREE PROTECTION PLAN NOTES

THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE ARBORIST SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF THE TREE PROTECTION PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND MONITORING OF THE TREE PROTECTION PLAN. THE ARBORIST SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE TREE PROTECTION PLAN UPON COMPLETION OF THE PROJECT.

TREE PROTECTION BARRIERS

TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE SHALL BE INSTALLED AS FOLLOWS:

- ALL BARRIERS SHALL BE 1.2M (4FT) HIGH AND MADE OF 2 X 4'S.
- ALL BARRIERS SHALL BE INSTALLED OUTSIDE THE TREE PROTECTION ZONE.
- ALL BARRIERS SHALL BE INSTALLED OUTSIDE THE TREE PROTECTION ZONE.

GENERAL NOTE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND MONITORING OF THE TREE PROTECTION PLAN. THE ARBORIST SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE TREE PROTECTION PLAN UPON COMPLETION OF THE PROJECT.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |
|     |                |      |

Client: ROSE DEVELOPMENT  
 420 SOUTH SERVICE RD EAST OAKVILLE

Drawing Title: TREE PROTECTION PLAN WEST PORTION OF SITE

Scale: 1:250  
 Date: 2-Dec-23  
 Project: 420SOUTHSERVICE

Drawn By: mo  
 Tree Survey Date: 3/4 Nov - 2023  
 TPR #03  
 100% Drawings: 3 of 7

- ### ARBORIST DRAWING LEGEND
- MINIMUM TREE PROTECTION ZONE (MTPZ AS PER BYLAW)
  - CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
  - CANOPY LIMIT
  - TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
  - TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
  - OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
  - BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
  - ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
  - AREA OF TREE PROTECTION ZONE FOUNDATION/ EXCAVATION WHICH MAY REQUIRE ROOT PROTECTION
  - ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS
  - TREE PROTECTION ZONE
- ### TREE BLOCK SYMBOLS
- TREE TO BE PRESERVED/RETAINED
  - CANOPY EXHIBIT
  - DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
  - MINIMUM TREE PROTECTION ZONE RADII
  - TREE TO BE REMOVED PERMIT REQUIRED
  - TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
  - COLLAPSED TREE - NOT IN INVENTORY
  - HEGGE/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

#### Pre-Construction Phase

1. All trees to be preserved/retained shall be inspected by the arborist prior to any construction work. The arborist shall provide a written report detailing the condition of all trees to be preserved/retained and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be preserved/retained. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

2. All trees to be removed shall be inspected by the arborist prior to any construction work. The arborist shall provide a written report detailing the condition of all trees to be removed and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be removed. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

3. All trees to be preserved/retained shall be inspected by the arborist prior to any construction work. The arborist shall provide a written report detailing the condition of all trees to be preserved/retained and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be preserved/retained. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

#### Planting and Post-Construction

1. The arborist shall provide a written report detailing the condition of all trees to be preserved/retained and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be preserved/retained. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

2. The arborist shall provide a written report detailing the condition of all trees to be removed and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be removed. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

3. The arborist shall provide a written report detailing the condition of all trees to be preserved/retained and the proposed Tree Protection Plan (TPP) to be implemented. The TPP shall include the location and extent of the Tree Protection Zone (TPZ) and Critical Root Zone (CRZ) for all trees to be preserved/retained. The TPP shall also include the location and extent of the Zone of Construction/Remediation/Excavation (ZC/RE/EX) for all excavation work. The TPP shall be approved by the City of Oakville prior to the start of construction work.

### SCHEDULE 1 TREE PROTECTION BARRIER

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, weatherboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic mesh snow fencing on a wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| Diameter of Trunk (DBH) | Tree Protection Zone (TPZ) Distance from Trunk (meters) |
|-------------------------|---|
| < 10                    | 1.8   |
| 10 - 20                 | 2.4   |
| 21 - 30                 | 3.0   |
| 31 - 40                 | 3.6   |
| 41 - 50                 | 4.2   |
| 51 - 60                 | 4.8   |
| 61 - 70                 | 5.4   |
| 71 - 80                 | 6.0   |
| 81 - 90                 | 6.6   |
| 91 - 100                | 7.2   |

1. For trees over 100 cm DBH, add 50 cm to the TPZ distance.

2. Roots are added from the trunk to 2-3 times the diameter of the tree (see Detail T-1 (SCHEDULE 4) for further information).

3. Diameter of trunk height (DBH) measurement of tree shall be taken at 1.4m above ground level.

4. Tree Protection Zone distance may be measured from the outside edge of the tree canopy the way the tree may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.



### General Notes

**TREE PROTECTION PLAN NOTES**

THE OWNER MUST ENSURE THAT THE TREE PROTECTION PLAN IS MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE OWNER MUST ENSURE THAT THE TREE PROTECTION PLAN IS MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. THE OWNER MUST ENSURE THAT THE TREE PROTECTION PLAN IS MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.

**TREE PROTECTION BARRIERS**

TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE TOWN ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED CAN BE 1.2M (4FT) HIGH AND CONSIST OF PLASTIC MESH SNOW FENCING ON A WOOD FRAME MADE OF 2 X 4'S.

**CONCRETE AREA**

CONCRETE AREA TO BE PROTECTED BY TEMPORARY HOARDING FOR TRIP AND FALL PREVENTION.

**GENERAL NOTE:**

ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TPZ INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A QUALIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY URBAN FORESTRY SERVICES. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS. ROOTS LOCATED OUTSIDE THE TPZ THAT HAVE RECEIVED APPROVAL FROM URBAN FORESTRY SERVICES TO BE PRUNED MUST BE COVERED BY HAND WRITTEN NOTICES. A LOW PRESSURE HYDRO BLASTING METHOD WILL ALLOW A PROPER PRUNING CUT AND MINIMIZE DAMAGE TO THE ROOTS. THE ARBORIST/ TREE PROFESSIONAL RETAINED TO CARRY OUT CROWN OR ROOT PRUNING MUST CONTACT URBAN FORESTRY SERVICES AT LEAST 48 HOURS PRIOR TO CONDUCTING ANY SPECIFIED WORK.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |
|     |                |      |
|     |                |      |

**ARBORIST:** M.R. FLOWMAN ON-11184

**CLIENT:** ROSE DEVELOPMENT

**DRAWING TITLE:** TREE PROTECTION PLAN NORTHWEST AREA OF SITE

**DATE:** 2-Dec-23

**SCALE:** 1:250

**PROJECT:** 420 SOUTH SERVICE

**DRAWN BY:** [Name]

**CHECKED BY:** [Name]

**DATE:** 3/1/Nov-2023

**SHEET:** TPR-04

**TOTAL DRAWINGS:** 4 of 7

**ARBORIST DRAWING LEGEND**

- MINIMUM TREE PROTECTION ZONE (MPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
- TREE PROTECTION FENCE - (POLY MESH) - MIN. 1.2M HT
- OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
- AREA OF TREE PROTECTION ZONE (TRENCHING/ EXCAVATION WHICH MAY REQUIRE ROOT ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS)
- TREE PROTECTION ZONE

**TREE BLOCK SYMBOLS**

- TREE TO BE PRESERVED/RETAINED
- CANOPY EXTENT
- DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
- MINIMUM TREE PROTECTION ZONE RADII
- TREE TO BE REMOVED (NO PERMIT REQUIRED)
- TREE TO BE REMOVED (NO PERMIT REQUIRED)/SMALL SIZE
- COLLAPSED TREE - NOT IN INVENTORY
- SHRUB/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

**Pre-Construction Phase**

1. All trees to be removed shall be marked with a red 'X' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

2. All trees to be preserved shall be marked with a green 'O' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

3. All trees to be removed shall be marked with a red 'X' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

4. All trees to be preserved shall be marked with a green 'O' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

**Planting and Post-Construction**

1. All trees to be removed shall be marked with a red 'X' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

2. All trees to be preserved shall be marked with a green 'O' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

3. All trees to be removed shall be marked with a red 'X' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

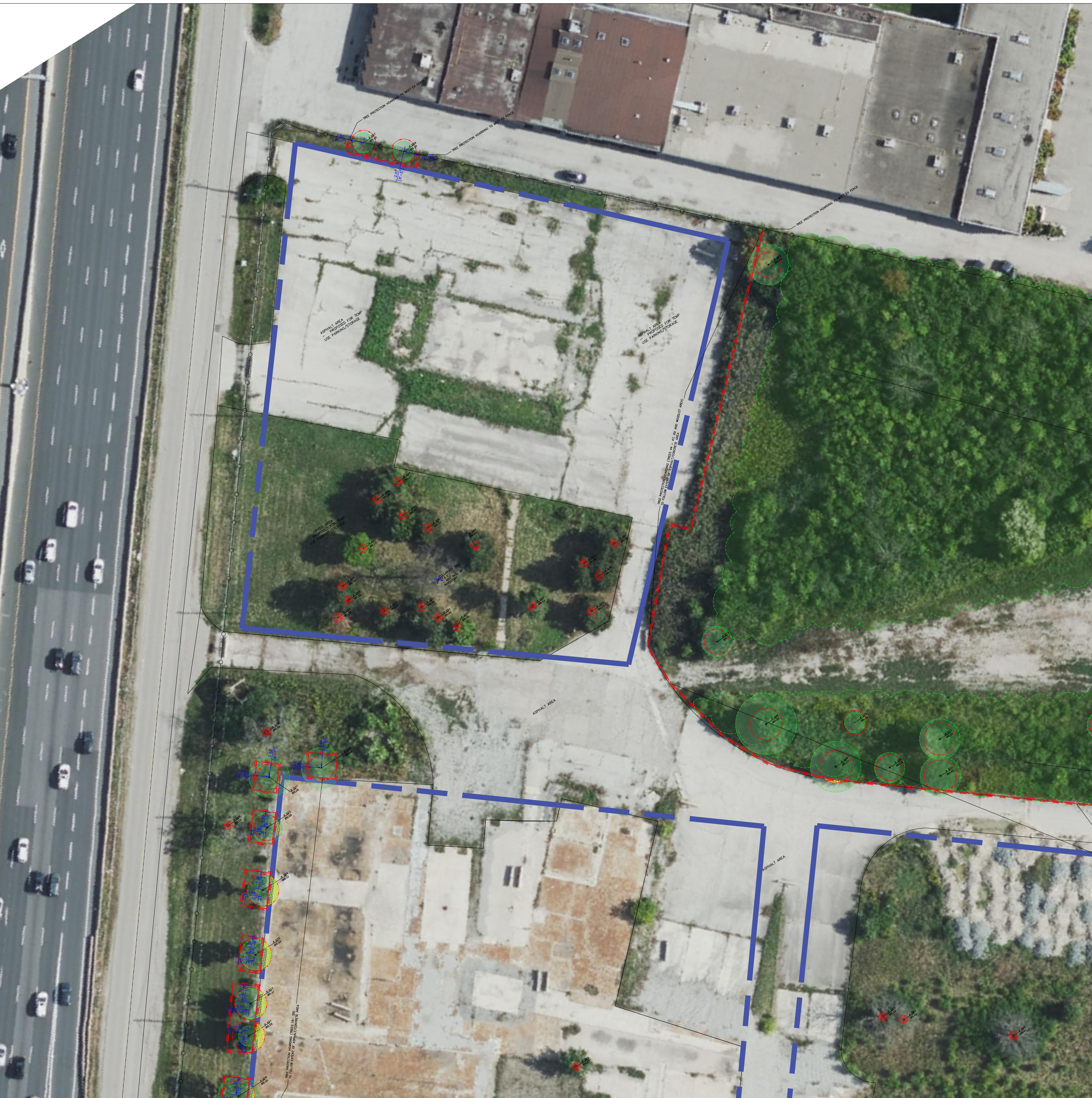
4. All trees to be preserved shall be marked with a green 'O' and a tag indicating the tree's location and size. The tag should be placed in a visible location on the tree.

**SCHEDULE 1 TREE PROTECTION BARRIER**

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, weatherboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic web snow fencing on a wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize snagging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| Distance of Trunk to Tree Protection Zone (m) | Tree Protection Zone (m) |
|---|--------------------------|
| 0-20  | 1.8                      |
| 21-30   | 2.4                      |
| 31-40   | 3.0                      |
| 41-50   | 3.6                      |
| 51-60   | 4.2                      |
| 61-70   | 4.8                      |
| 71-80   | 5.4                      |
| 81-90   | 6.0                      |
| 91-100  | 6.6                      |



**General Notes**

TREE PROTECTION PLAN NOTES

1. THE OWNER MUST CONFIRM THAT NO MANDATORY BYLAW REQUIREMENTS APPLY TO THIS SITE FOR THE PROTECTION OF TREES. THE OWNER MUST ENSURE THAT ANY WORK IS IN COMPLIANCE WITH THE MANDATORY BYLAW REQUIREMENTS.

2. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

3. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

4. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

5. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

6. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

7. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

8. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

9. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

10. THE APPLICANT'S RESPONSIBILITY TO PROTECT TREES IS LIMITED TO THE PROTECTION OF TREES ON THE SITE. THE APPLICANT IS RESPONSIBLE FOR THE PROTECTION OF TREES ON ADJACENT PROPERTIES.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |
|     |                |      |
|     |                |      |

**ARBORIST**  
M.R. FLOWMAN ON-1118A

**CLIENT**  
ROSE DEVELOPMENT  
420 SOUTH SERVICE RD EAST OAKVILLE

**DRAWING TITLE**  
TREE PROTECTION PLAN  
NORTH AREA OF SITE

**DATE**  
2-Dec-23

**PROJECT**  
420SOUTHSERVICE

**SCALE**  
1:250

**DRAWN BY**  
mo

**CHECKED BY**  
3/4-Nov-2023

**TSP DRAWINGS**  
5 of 7



### ARBORIST DRAWING LEGEND

- MINIMUM TREE PROTECTION ZONE (MPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE (POLY MESH) - MIN 1.2M HT
- TREE PROTECTION FENCE (POLY MESH) - MIN 1.2M HT
- OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE TREES/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / REMEDIATION / EXCAVATION
- AREA OF TREE PROTECTION ZONE FOUNDATION/ EXCAVATION WHICH MAY REQUIRE ROOT PROTECTORS TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS
- TREE PROTECTION ZONE

### TREE BLOCK SYMBOLS

- TREE TO BE PRESERVED/RETAINED
- CANOPY EXTENT
- DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
- MINIMUM TREE PROTECTION ZONE RADII
- TREE TO BE REMOVED PERMIT REQUIRED
- TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
- COLLAPSED TREE - NOT IN INVENTORY
- SHRUB/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

#### Pre-Construction Phase

1. All Tree Protection Planning to be completed and approved by the Town of Oakville prior to the start of construction.

2. All Tree Protection Planning to be completed and approved by the Town of Oakville prior to the start of construction.

3. All Tree Protection Planning to be completed and approved by the Town of Oakville prior to the start of construction.

4. All Tree Protection Planning to be completed and approved by the Town of Oakville prior to the start of construction.

#### Excavation and Post-Construction

1. Upon completion of the temporary use of the site, all existing temporary structures and materials shall be removed and the site shall be returned to its original condition.

2. Replacement Tree Plantings, where required by the Town of Oakville, shall be completed within the specified time frame.

3. All Tree Protection Planning to be completed and approved by the Town of Oakville prior to the start of construction.

### SCHEDULE 1 TREE PROTECTION BARRIER

**Tree Protection Barriers**

- Tree protection barriers must be 1.2m (4ft) high, w/aleboard hoarding or an equivalent approved by Urban Forestry Services.
- Tree protection barriers for trees situated on the Town Road allowance where visibility must be maintained can be 1.2m (4ft) high and consist of plastic web snow fencing on a wood frame made of 2 x 4's.
- Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
- All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize snagging roots outside the Tree Protection Barrier.
- No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

| Diameter of Trunk (DBH) | Distance from Trunk to Barrier in metres |
|-------------------------|--|
| < 30                    | 1.8                                      |
| 31 - 50                 | 2.4                                      |
| 51 - 70                 | 3.0                                      |
| 71 - 80                 | 3.6                                      |
| 81 - 90                 | 4.2                                      |
| 91 - 100                | 4.8                                      |
| > 100                   | 5.4                                      |
| > 100                   | 6.0                                      |

1. For trees over 100 cm DBH, add 50 cm to the TPZ.  
2. Roots are staked from the trunk to 2-3 times the distance of the size the tree (see Table 1) (CONDUCE 4) for further information.  
3. Diameter of trunk height (DBH) measurement of tree.  
4. Tree Protection Zone distance may be measured from the outside edge of the tree trunk towards the site and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.



### General Notes

TREE PROTECTION PLAN NOTES

1. THE OWNER MUST CONFIRM THAT NO MODIFIED AREAS ARE MARKED USE OF THE SITE FOR VEHICLE STORAGE OR OTHER USES THAT WILL BE IN CONFORMANCE WITH THE MODIFIED AREAS CONVENTION ACT AND THAT NO MODIFIED AREAS WILL BE IMPACTED BY THE PROPOSED WORK.

2. IT IS THE APPLICANT'S RESPONSIBILITY TO DISCUSS POTENTIAL TREE DAMAGE TO SHARED PROPERTY LINES WITH THEIR NEIGHBOURS. SHOULD SUCH TREES BE INJURED TO THE POINT OF INSTABILITY OR DEATH, THE APPLICANT MAY BE HELD LIABLE FOR THE REMOVAL AND COSTS INCURRED BY NEIGHBOURS. NEIGHBOURS SHOULD BE NOTIFIED IN WRITING IN ADVANCE OF ANY WORK TO BE DONE ON THE SITE AND THROUGH NEGOTIATION THE APPLICANT SHOULD BE REQUIRED TO REPLACE SUCH TREES TO THE SATISFACTION OF URBAN FORESTRY.

3. TREE PROTECTION ZONES

NO CONSTRUCTION ACTIVITY INCLUDING GRADE CHANGES, SURFACE TREATMENTS OR EXCAVATIONS OF ANY KIND IS PERMITTED WITHIN THE AREA IDENTIFIED ON THE TREE PROTECTION PLAN OR SITE PLAN AS A TREE PROTECTION ZONE UNLESS NO OTHER NOTICE IS PERMITTED. THE STORAGE OF MATERIALS OR FILL IS PERMITTED WITHIN THE TPZ SO LONG AS MOVEMENT OF STORAGE OF MATERIALS IS PERMITTED WITHIN THE TPZ. THE AREAS IDENTIFIED AS A TPZ MUST REMAIN UNOBTAINED AT ALL TIMES.

4. TREE PROTECTION BARRIERS FOR CITY-OWNED TREES

TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE SHOULD BE INSTALLED AS FOLLOWS:

- ALL BARRIERS MUST BE 1.2M HIGH AND CONSIST OF CHAIN LINK OR ORANGE PLASTIC MESH SNOW FENCING ON A 2" X 4" WOOD FRAME.
- ALL BARRIERS MUST BE INSTALLED AT A LEAST 1.2M FROM THE TREE TRUNK.
- ALL BARRIERS MUST BE INSTALLED AT A LEAST 1.2M FROM THE TREE TRUNK.
- ALL BARRIERS MUST BE INSTALLED AT A LEAST 1.2M FROM THE TREE TRUNK.

5. WHERE SOME FILL OR EXCAVATION HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, WOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TPZ. IF THE TPZ NEEDS TO BE REMOVED TO FACILITATE CONSTRUCTION WORK, THE TREE PROTECTION BARRIER MUST BE REINSTALLED AT A LEAST 1.2M FROM THE TREE TRUNK. THE BARRIER MUST BE REINSTALLED WITHIN 24 HOURS OF THE REMOVAL OF THE TPZ. THE BARRIER MUST BE APPROVED BY URBAN FORESTRY.

6. FOR TREES ON PRIVATE PROPERTY SITUATED ON OR ADJACENT TO CONSTRUCTION SITES

TREE PROTECTION BARRIERS MUST BE INSTALLED AROUND TREES TO BE PROTECTED USING A WOOD CLAD HOARDING ON ALL EXCAVATION APPROVED BY URBAN FORESTRY. APPROVED AND BRACING TO SAFELY SECURE THE BARRIER SHOULD BE INSTALLED OUTSIDE THE TPZ. ALL SUCH SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ.

7. GENERAL NOTE

COMPLETION OF ANY SITE ACTIVITY THE TREE PROTECTION BARRIERS SPECIFIED ON THIS PLAN MUST BE MAINTAINED AND WRITTEN NOTICE PROVIDED TO URBAN FORESTRY. THE TREE PROTECTION BARRIERS MUST REMAIN IN EFFECTIVE CONDITION UNTIL ALL SITE ACTIVITIES INCLUDING LANDSCAPING AND CONSTRUCTION ARE COMPLETE. WRITTEN NOTICE MUST BE ATTACHED TO ALL SITES OF WORK. WRITTEN NOTICE MUST BE PROVIDED TO URBAN FORESTRY PRIOR TO THE REMOVAL OF THE TREE PROTECTION BARRIERS.

8. ARBORICULTURAL WORK

ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TPZ INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A QUALIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY URBAN FORESTRY. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS. ROOTS LOCATED OUTSIDE THE TPZ THAT HAVE RECEIVED APPROVAL FROM URBAN FORESTRY TO BE PRUNED MUST BE PRUNED BY A QUALIFIED ARBORIST. THIS WILL ALLOW A PROPER PRUNING CUT AND MINIMIZE DAMAGE TO THE ROOTS. THE ARBORIST/TREE PROFESSIONAL RETAINED TO CARRY OUT CROWN OR ROOT PRUNING MUST CONTACT URBAN FORESTRY AT LEAST 48 HOURS PRIOR TO CONDUCTING ANY SPECIFIED WORK.

| No. | Revision/Issue | Date |
|-----|----------------|------|
|     |                |      |

Client: ROSE DEVELOPMENT  
420 SOUTH SERVICE RD EAST OAKVILLE

Drawing Title: TREE PROTECTION PLAN SOUTH AND SOUTHWEST PORTION OF SITE (WOODLOT B)

Date: 2-Dec-23 Project: 420SOUTHSERVICE

Scale: 1:250 Sheet: TPR-407

Drawn By: mo  
Tree Survey Date: 1/A - Nov-2023  
TSP Drawings: 7 of 7

M.R. FLOWMAN ON-1118A  
CLN FARM & FOREST RESEARCH CO. LTD.  
251 BRIMLEY RD. UNIT 10  
DANFORTH, ON L6B 2H5  
TEL: 905-827-1134