

**Tree Inventory and Preservation Plan Report
5783 Bloomington Sideroad
Stouffville, Ontario**

prepared for

**1398493 Ontario Inc.
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prepared by



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KUNTZ FORESTRY CONSULTING Inc. Project P4366

Introduction

Kuntz Forestry Consulting Inc. was retained by 1398493 Ontario Inc. to complete a Tree Inventory and Preservation Plan as part of a development application for the proposed construction in front of 5783 Bloomington Sideroad in Stouffville. The subject property is located on the south side of Bloomington Sideroad, west of Ninth Line, within a rural area.

The work plan for this tree preservation study included the following:

- Prepare inventory of the tree resources over 10cm DBH on and within six meters of the subject area, and trees of all sizes within the road right-of-way;
- Evaluate potential tree saving opportunities based on proposed development plans; and
- Document the findings in a Tree Inventory and Preservation Plan Report.

The results of the evaluation are provided below.

Methodology

Trees greater than 10cm DBH on and within six meters of the subject area and trees of all sizes within the road right-of-way were included in the tree inventory. Trees were located using the provided topographic survey, aerial imagery and in-field estimations. Trees were identified by numbers 1-11. One polygon (groups of trees) was identified as P1.

Individual tree resources were assessed utilizing the following parameters:

Tree # - number assigned to tree that corresponds to Figure 1.

Species - common and botanical names provided in the inventory table.

DBH - diameter (centimeters) at breast height, measured at 1.4 m above the ground.

Condition - condition of tree considering trunk integrity, crown structure and crown vigor. Condition ratings include poor (P), fair (F) and good (G).

Comments - additional relevant detail.

Tree locations are shown on Figure 1. See Table 1 for the results of the inventory. Refer to Appendix A for photographs of regional trees.

Existing Site Conditions

The limit of construction is currently occupied by a gravel driveway providing access to 5783 Bloomington Sideroad, and gravel shoulders on either side of Bloomington Sideroad. Tree resources exist in the form of landscape trees. Refer to Figure 1 for the existing site conditions.

Tree Resources

The tree inventory was conducted on 11 September 2024. The inventory documented 11 individual trees and one tree polygon (groups of trees) on and within six meters of the subject area. Refer to Tables 1 and 2 for the full tree inventory and Figure 1 for the location of trees reported in the tree inventory.

Tree resources were comprised of White Elm (*Ulmus americana*), Green Ash (*Fraxinus pennsylvanica*), Black Cherry (*Prunus serotina*), and Sugar Maple (*Acer saccharinum*) and Japanese Flowering Lilac (*Syringa reticulata*).

Proposed Development

The proposed development includes grading and culvert work on the north and south side of Bloomington Sideroad in front of 5783 Bloomington Sideroad. Refer to Figure 1 for the proposed development.

Discussion

The following sections provide a discussion and analysis of tree impacts and tree preservation relative to the approved development and existing conditions.

Development Impacts/Tree Removal

The removal of one tree, Tree 7, will be required to accommodate the proposed development. Tree 7 directly conflicts with the proposed regrading and building of the ditch.

Tree 7 is located within the road-right-of way, permission from York Region will be required prior to its removal.

Refer to Figure 1 for the location of the recommended tree removal.

Tree Preservation

The preservation of the remaining trees, including Trees 1-6, 8-11 and P1, will be possible with the use of appropriate tree protection measures as indicated on Figure 1. Trees 1-6 and P1 have been shown for interim preservation. It is our understanding that these trees may be impacted by works occurring on the subject property by others, outside of the proposed road widening works described in this report. Tree protection measures will have to be implemented prior to demolition to ensure tree resources designated for retention are not impacted by the development. Preservation specifications for Trees 1-6, 8-11 and P1 must conform to York Regional requirements per the NHF-series details and notes on Figure 1. Refer to Figure 1 for the location of required tree preservation fencing, general Tree Protection Plan Notes, and the tree preservation hoarding detail.

Tree 8

- All tree preservation shall be in accordance with York Region's Street Tree and Forest Preservation Guidelines.
- A Qualified Tree Professional must be present for all encroachment work within the within the TPZs.
- York Region Natural Heritage and Forestry Staff shall be notified with 24 hours notice prior to working within the TPZs
- Tree Protection barriers shall be placed at the limit of the encroachment and not be moved at any time during construction unless with the oversight of a qualified tree professional.

- At-grade encroachment - Root zone compaction protection provisions must be followed (NHF-404).
- Below-grade encroachment - Root sensitive excavation and root pruning shall be undertaken prior to conventional excavation (NHF-403).
- After the completion of construction, soil compaction and restoration provisions shall be followed when deemed necessary by York Region Natural Heritage and Forestry Staff.

Compensation

Tree Compensation – Regional Right-of-way

For trees within the York Region right-of-way identified for removal, the required replacement trees and associated compensation value is typically to be calculated in accordance with section 2.4 of York Region's "Street Tree and Forest Preservation Guidelines" document. For this exercise, the replacement tree caliper size is assumed to be 50mm.

The number of replacement trees is calculated as follows:

$$\text{Number of replacement trees} = (\text{DBH of tree to be removed/replacement tree caliper size}) \times \text{Condition rating}$$

Compensation value is calculated as follows:

$$\text{Compensation Value (\$)} = \text{Number of replacement trees} \times \text{Replacement Cost}$$

Refer to Appendix B for the compensation calculations.

Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by 1398493 Ontario Inc. to complete a Tree Inventory and Preservation Plan as part of a development application for the property at 5783 Bloomington Sideroad in Stouffville, Ontario. A tree inventory was conducted and reviewed in the context of the proposed site plan.

The findings of the study indicate a total of 11 trees and one tree polygon on and within six metres of the study area. The removal of one tree is required to accommodate the proposed development. The remaining trees can be saved provided appropriate tree protection measures are installed prior to the development.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for the location of required tree preservation fencing and general Tree Protection Plan Notes, and tree preservation fence detail.

- Tree protection barriers and fencing should be erected at locations as prescribed on Figure 1. All tree protection measures should follow the guidelines as set out in the tree preservation plan notes and the tree preservation fencing detail.

- No construction activity including surface treatments, excavations of any kind, storage of materials or vehicles, unless specifically outlined above, is permitted within the area identified on Figure 1 as a tree protection zone (TPZ) at any time during or after construction.
- Branches and roots that extend beyond prescribed tree protection zones that require pruning must be pruned by a qualified Arborist or other tree professional. All pruning of tree roots and branches must be in accordance with Good Arboricultural Standards.
- Site visits, pre, during and post construction is recommended by either a certified consulting arborist (I.S.A.) or registered professional forester (R.P.F.) to ensure proper utilization of tree protection barriers. Trees should also be inspected for damage incurred during construction to ensure appropriate pruning or other measures are implemented.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

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Limitations of Assessment

Only the tree(s) identified in this report were included in the inventory. The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These may include a visual examination taken from the ground of all the above-ground parts of the tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, discoloured foliage, the condition of any visible root structures, the degree of lean (if any), the general condition of the trees and the identification of potentially hazardous trees or recommendations for removal (if applicable). Where trees could not be directly accessed (ie. due to obstructions, and/or on neighbouring properties), trees were assessed as accurately as possible from nearby vantage points.

Locations of trees provided in the report are determined as accurately as possible based on the best information available. If official survey information is not provided, tree locations in the report may not be exact. Where KFCI's in-house GPS unit is used (if applicable), tree locations are accurate only to the extent that the technology allows, which can be variable based on satellite available, RTK network / cell coverage, canopy coverage, and/or projection transformation limitations. If trees occur on or near property boundaries, an official site survey may be required to determine ownership utilizing specialized survey protocol to gain precise location.

Furthermore, recommendations made in this report are based on the site plans that have been provided at the time of reporting. These recommendations may no longer be applicable should changes be made to the site plan and/or grading, servicing, or landscaping plans following report submission.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions or seasonal variations in the weather conditions. Any tree will fail if the forces applied to the tree exceed the strength of the tree or its parts.

Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.

Table 1. Tree Inventory

Location: 5783 Bloomington Sideroad Stouffville

Date: 11 September 2024 Surveyors: NB

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	YCR	DL	CDB	mTPZ	Comments	Action
1	White Elm	<i>Ulmus americana</i>	58	F-G	F	F-G	S	4.5		5.8	Union at 3m, bowing (L)	Interim preservation
2	Green Ash	<i>Fraxinus pennsylvanica</i>	3-5	F-G	F	F	PT	0.5		2.4	Epicormic branching	Interim preservation
3	Sugar Maple	<i>Acer saccharum</i>	65	P-F	F	F	Dc	5.0		6.5	Cavities in stem (M) with rot (L), deadwood (M), union at 1.4m, poor form (L)	Interim preservation
4	Black Cherry	<i>Prunus serotina</i>	46	F-G	F	F-G	PT	2.5		4.6	Union at 4.5m and 6m, poor form (L), vine competition (L)	Interim preservation
5	Sugar Maple	<i>Acer saccharum</i>	75	F	F	F-G	PT	4.0		7.5	Lost leader, cavity with rot where leader lost, epicormic branching (L), deadwood (L), bowing branches (L)	Interim preservation
6	Sugar Maple	<i>Acer saccharum</i>	~77	F-G	F	F-G	PT	4.0		7.7	Multiple branch attachment (L), union at 4m with included bark (M), vine competition (M)	Interim preservation
7	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	7	G	G	G	G	0.5		2.4		Remove
8	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	6	G	G	F	PT	0.5	20	2.4	Deadwood (L)	Preserve (Injure)
9	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	7	G	G	F-G	S	0.5		2.4		Preserve
10	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	4-7	F-G	F	F-G	PT	1.0		2.4	Multistem, union at 1.1m, deadwood (VL)	Preserve
11	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	4,5,3	F-G	F-G	G	S	0.5		2.4	Union at 1m	Preserve
P1	Green Ash	<i>Fraxinus pennsylvanica</i>	3-7	F-G	F	F	PT	0.5		2.4	9 trees, epicormic branching	Interim preservation

Codes		
DBH	Diameter at Breast Height	(cm)
TI	Trunk Integrity	(G, F, P)
CS	Crown Structure	(G, F, P)
CV	Crown Vigor	(G, F, P)
YCR	York Region Condition Rating	G - Good, S - Satisfactory, PT - Potential Trouble, Dc - Declining, DI - Death Imminent, D - Dead
CDB	Crown Die Back	(%)
mTPZ	minimum Tree Protection Zone based on Town of Stouffville's standard (for private trees) or York Region standards (for ROW trees)	(m), radius from outside edge of tree base
~ = estimate; (VL) = very light; (L) = light; (M) = moderate; (H) = heavy		

Appendix A. Photographs of Regional Trees



Image 1. Trees 1-6 (Right to left)



Image 2. P1



Image 3. Trees 7-11 (Right to left)



Image 4. ROW facing west on south side of Bloomington Sideroad, no trees. Shrubs present.

Appendix B. Replacement and Compensation Calculation for Regional Trees

Location: 5783 Bloomington Sideroad Stouffville

Tree #	Common Name	Scientific Name	DBH	Condition Rating	Owner	Action	Total DBH	DBH/50mm caliper	Number of Replacement Trees
7	Lilac, Japanese Flowering	<i>Syringa reticulata</i>	7	0.9	Region	Remove	7	1.4	1.26
								TOTAL	1.26
								Rounded Total	1
								\$1,260per tree	\$1,260.00