

**Tree Inventory and Preservation Plan Report
2085 Pine Street
Burlington, ON**

prepared for

**Pine Street Burlington Corp
1039 Fourth Line
Milton, ON
L9T 6P9**

prepared by



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KUNTZ FORESTRY CONSULTING INC Project 915

Introduction

Kuntz Forestry Consulting was retained by the Pine Street Burlington Corp to complete a Tree Inventory and Preservation Plan report in support of a development application for a property situated at 2085 Pine Street in Burlington, Ontario.

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

- Prepare field mapping (overlay concept plan on topographic survey);
- Prepare inventory of tree resources with a diameter at breast height (DBH) greater than or equal to 10 cm on and within 6m of the subject property;
- Evaluate potential tree saving opportunities based on proposed development plans; and,
- Document the findings in a Tree Inventory and Preservation Plan Report.

Field assessments were completed on the 21st of October 2014 and updated on the 29th of January 2019. 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 (centimetres) at breast height, measured at 1.4 m above the ground.

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

Crown Dieback (CDB) – Percent of crown which no longer supports foliage;

Dripline – distance from the stem to the edge of the crown, and

Comments - additional relevant detail.

Trees were located by topographic survey and measurements made on site.

Existing Site Conditions

The property at 2085 Pine Street is comprised of a red brick house with a detached garage surrounded by an asphalt driveway, manicured lawn and amenity areas. Tree resources are comprised of naturally occurring trees and landscape plantings within vicinity of the property boundaries.

The tree inventory documented a total of 8 Trees situated on subject property, on neighbouring property and within the Pine Street road allowance. Trees included in the inventory are comprised of White Birch (*Betula papyrifera*), Little-Leaf Linden (*Tilia Cordata*), White Ash (*Fraxinus Americana*), Black Walnut (*Juglans nigra*) and Green Ash (*Fraxinus pennsylvanica*). Refer to Table 1 for the complete tree inventory and Figure 1 for the location of trees reported on in the tree inventory.

Proposed Development

The proposed development includes the construction of a 11 storey residential complex. The existing red brick house is proposed to be retained within the design of the proposed structure.

Discussion

The following sections provide a discussion and analysis of development impacts, tree removal requirements and tree preservation relative to the proposed development and existing conditions.

Development Impacts

The minimum Tree Preservation Zones (mTPZ) distances, as outlined in the City of Burlington's Specifications For Tree Protection and Preservation (Spec No. SS12A), were used in the preservation planning process to determine tree removal requirements. Where encroachment is required within the mTPZ there is the potential to damage tree roots and tree removal may be required.

Tree Removal

Removal of Trees 2-7 will be required to accommodate the proposed development.

Trees formerly identified as numbers 1 and 8-10 have previously been removed and are no longer present.

The stem of Tree 2 has been cracked due to vehicles on Pine St. hitting a branch, formerly located in the crown, and should be replaced with a new street tree.

Trees 2 and 3 are City street trees and will require permission from the City prior to their removal.

Trees 4, 5, 6 and 7 are in close vicinity to the property boundaries and may be dually or fully owned by the neighbouring property owner. Permission from the respective neighbouring property owner will be required prior to the removal of dually owned trees.

Tree Preservation

Preservation of Trees 11 and 12 will be possible. No tree protection fence is required for Trees 11 and 12 as they reside in fenced rear yards and are already protected by a board fence. The board fence resides in the same location that tree protection fence would be installed and should sufficiently protect the trees during construction. If any roots are exposed during excavation they should be pruned by a Certified Arborist in accordance with good arboricultural practice.

It appears as though encroachment within the mTPZs of Trees 11 and 12 will be required to accommodate the proposed development, however, the area of encroachment is occupied by asphalt and it is anticipated that there are no roots below this area. As such, the required encroachment will not have any impacts to Trees 11 and 12. To ensure that no tree roots are damaged the existing asphalt driveway must remain in place throughout the construction phase.

The crowns of Trees 11 and 12 extend onto subject property and they may require pruning prior to construction to ensure their branches are not damaged by machinery. Pruning of tree branches must be completed by a Certified Arborist in accordance with good arboricultural practice.

Summary and Recommendations

Kuntz Forestry Consulting was retained by the Pine Street Burlington Corp to complete a Tree Inventory and Preservation Plan report in support of a development application for a property situated at 2085 Pine Street in Burlington, 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 8 trees situated on subject property, on neighbouring property and in the road allowance with the potential to be impacted by the proposed development. Removal of 6 Trees is required to accommodate the proposed development.

The following recommendations are suggested to minimize impacts to trees identified for preservation.

- The board fence lining the back yards occupied by Trees 11 and 12 will sufficiently protect the trees during construction, as such dedicated tree protection fence is not required.
- Any roots and branches that extend past 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.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

Jeremy Jackson

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Table 1. Tree Inventory

Location: 2085 Pine St.
Burlington

Date: 21 Oct. 2014 & 29 Jan. 2019 Surveyors: JJJ (AC)

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	CDB	DL	mTPZ	Comments	Action	Reason
1	White Birch	<i>Betula papyrifera</i>	36	F	F	F	20	5	2.4	Lean (L) south, cavity at base	Removed	
2	Little-leaf Linden	<i>Tilia cordata</i>	40	F	G	G		4	2.4	Crack (M), pruning wounds (L), large scaffold limb appears to have been damaged by a truck which has nearly split the stem in half	Remove	Condition
3	Little-leaf Linden	<i>Tilia cordata</i>	37	FG	G	G		4	2.4	Girdling roots (H), union at 2 m, it appears that roots extend under the sidewalk - sidewalk lifting, vertical scaffold limbs with included bark(H)	Remove	Conflicts with entrance to underground parking
4	White Ash	<i>Fraxinus americana</i>	~62	P	P	P	90	7	4.2	Dying/almost dead, Trumpet creeper vine climbing stem (L)	Remove	Proposed structure
5	White Ash	<i>Fraxinus americana</i>	30, 25	P	P	P		5	2.4	Dying/ almost dead, Union at ground, bowed (L) east, understory	Remove	Proposed structure
6	Black Walnut	<i>Juglans nigra</i>	~75	FG	G	G		10	4.8	Asphalt paved up to the flare	Remove	Proposed structure
7	Black Walnut	<i>Juglans nigra</i>	76	FG	G	G		10	4.8		Remove	Proposed structure
8	Green Ash	<i>Fraxinus pennsylvanica</i>	~32	G	G	G		5	2.4	Pruning wounds (L)	Removed	
9	Honey Locust (shademaster)	<i>Gleditsia triacanthos inermis</i>	~14	G	G	G		4	2.4		Removed	
10	Honey Locust (shademaster)	<i>Gleditsia triacanthos inermis</i>	~15	G	G	G		3	2.4		Removed	
11	Honey Locust (shademaster)	<i>Gleditsia triacanthos inermis</i>	~15	G	G	G		2	2.4		Retain	encroachment - however occurs in an asphalt area so no impacts
12	Honey Locust (shademaster)	<i>Gleditsia triacanthos inermis</i>	~13	G	G	G		2	2.4		Retain	encroachment - however occurs in an asphalt area so no impacts

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)
CDB	Crown Die Back	(%)
DL	Dripline	(m)
~ = estimate; (L) = light; (M) = moderate; (H) = heavy		