



# JACKSON ARBORICULTURE INC.

*CONSULTING AND GIS ANALYSIS*

118 Pleasant Ridge Road, Brantford ON, N3R 0B8

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## Tree Inventory and Preservation Plan Report

Subject Property:

**DeMachri Subdivision**  
Milton, ON

Prepared For:

**Branthaven Fourth Line Inc.**  
720 Oval Court  
Burlington, ON L7L 6A9

Prepared By:

**Jackson Arboriculture Inc.**  
118 Pleasant Ridge Road  
Brantford, ON N3R 0B8

18 September 2024

Jackson Arboriculture Inc. Project No. P523

## 1.0 Introduction

Jackson Arboriculture Inc. was retained by Branthaven Fourth Line Inc. to complete a Tree Inventory and Preservation Plan report for a property identified as the DeMachri Property in the Town of Milton, Ontario, hereby referred to as the subject property. It is understood that an application will be filed with the Town for the construction of a residential subdivision.

The following study has been completed in accordance with the Town of Milton's Engineering and Parks Standards Manual.

## 2.0 Methodology

At the onset of the project the scope of work was coordinated with the client and the consulting team. Prior to conducting a site visit, the topographic survey and current aerial photography were overlaid utilizing geographic information software for use on site during the completion of the tree inventory. The tree locations and the site plan were then overlaid and a tree preservation analysis was completed to determine the impacts to the trees included in the inventory.

### 2.1 Tree Inventory

A site visit was conducted on the 11<sup>th</sup> of September 2024 to complete the tree inventory. All trees 10 cm in diameter and larger situated on subject property, on neighbouring property within 6 m and within the road allowance were included in the tree inventory. A visual assessment was completed on each tree included in the inventory and the following information is provided in the tree inventory table (Table 1):

- **Tree #:** A number assigned to each tree corresponding to the tree inventory (Table 1) and the Tree Preservation Plan (Sheet 1).
- **Species:** Common and scientific (Latin) species names.
- **DBH:** The trunk diameter at breast height, measured in centimeters at 1.4 m from the ground.
- **Condition:** The health of the tree considering the trunk integrity, the crown structure and the crown vigour; each rated as good, fair or poor. The condition ratings are based on the signs, symptoms and defects exhibited by each tree, considering the surroundings in which it is growing.
- **Dripline:** The distance from the trunk to the tips of the live branches.
- **Location:** The property where the tree is situated, based on the topographic survey and gps locations taken on site.
- **Comments:** Any additional notes relevant to the tree's health or growing conditions.
- **Recommendation:** The recommended removal or preservation of each tree based on the results of the impact assessment.

The trees included in the inventory were identified with numbers 1-46 and were located using a tablet computer with a GPS receiver and estimates made on site.

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## **2.2 Impact Assessment**

A tree preservation analysis was completed on each tree included in the inventory considering the impacts from the proposed development and many other factors including, but not limited to, tree condition, species, DBH and the existing site conditions. The impacts from the proposed development will occur where tree roots and branches conflict with machinery during pre-grading and construction.

During the tree preservation analysis the distance of dripline was utilized to assess the impacts to the trees included in the tree inventory. Where considerable encroachment is required within the dripline tree removal may be required.

## **3.0 Existing Conditions**

The subject property is situated on the northwest corner of Derry Road and Fourth Line and occupied by active agricultural fields with a watercourse traversing the middle of the property in a north to south direction. The property is bound by a watercourse channel and an elementary school to the north, the closed Fourth Line road allowance to the east, Derry Road to the south and residential development to the west.

## **4.0 Tree Inventory Results**

The results of the tree inventory indicate that a total of 46 trees 10 cm in diameter or larger reside on subject property, on neighbouring property within 6 m and within the road allowance. The trees included in the inventory appear to be comprised of naturally occurring trees and landscape plantings.

No rare, threatened or endangered tree species were documented in the tree inventory. Refer to Table 1 for the complete tree inventory and Sheet 1 for the tree locations.

## **5.0 Proposed Development**

The proposed development includes the construction of a residential subdivision, including a re-constructed watercourse channel and a village square.

## **6.0 Discussion**

The following sections discuss the tree removal requirements, tree preservation opportunities, and the tree preservation recommendations.

## 6.1 Tree Removal

The removal of the following trees will be required to accommodate the proposed development:

- 9-12, 14-29 and 46.

Tree 46 appears to reside on the boundary between the Fourth Line road allowance and subject property. Permission from the appropriate Town Department will be required prior to removal.

## 6.2 Tree Preservation

The preservation of the following trees will be possible with the use of appropriate tree protection measures:

- 1-8, 13 and 30-45.

Tree protection fence must be installed prior to the commencement of construction (pre-grading) to ensure that the trees identified for preservation are not impacted by the proposed development. Trees 30-44 will be sufficiently protected by the chain-link fence situated on the property boundary and no dedicated tree protection fence is required.

Tree protection fence must be installed at the dripline unless noted otherwise in this report and on Sheet 1. Refer to Sheet 1 for the prescribed tree protection fence locations, additional tree protection plan notes and the tree protection fence detail.

## 6.3 Tree Preservation Recommendations

The following recommendations are made in attempts to reduce the impacts to trees identified for preservation:

- Tree protection fence must be installed at the mTPZ distance prior to the commencement of construction, unless noted otherwise in this report and on Sheet 1.
- Once tree protection fence has been installed it must not be moved, relocated or altered in any way (unless repairing fallen fence etc.) for the duration of the construction period.
- No intrusion into an area identified on Sheet 1 as a tree preservation zone (TPZ) is allowed at anytime during construction unless noted otherwise in this report and on Sheet 1.
- No storage of machinery, construction debris, materials, waste or any other items is allowed within a TPZ.
- Any tree branches and roots that conflict with the proposed development must be pruned by a Certified Arborist in accordance with good arboricultural practice.
- Tree protection fencing should be inspected by a Certified Arborist prior to and during construction to ensure that the fencing remains intact and in good repair throughout the stages of development.

## 7.0 Summary

Jackson Arboriculture Inc. was retained by Branthaven Fourth Line Inc. to complete a Tree Inventory and Preservation Plan report for a property identified as the DeMachri Property in the Town of Milton, Ontario. A tree inventory was conducted and an impact assessment was completed in the context of the proposed development plan.

The tree inventory documented a total of 46 trees situated on subject property, in the road allowance and on neighbouring property within 6 m. The results of the impact assessment indicate that the removal of 21 trees will be required to accommodate the proposed development.

Respectfully submitted,  
**Jackson Arboriculture Inc.**

*Jeremy Jackson*

Jeremy Jackson, H.B.Sc.,  
ISA Certified Arborist #ON-1089A  
GIS Analyst

## 8.0 Limitations of Assessment

It is our policy to attach the following limitations of assessment to ensure that the client, municipalities and agencies are fully aware of what is technically and professionally realistic when visually assessing and retaining trees.

The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above ground parts of each 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 and direction of any lean, the general condition of the trees and the surrounding site, and the proximity of property and people.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour constantly change. They are not immune to changes in site conditions, or seasonal variations in the weather conditions, including severe storms with high-speed winds.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy no guarantees are offered, or implied, that these trees, or any parts of them, will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behaviour of any single tree or group of trees or their component parts in all circumstances. Inevitably a standing tree will always pose some risk. Most trees have the potential for failure under adverse weather conditions, and the risk can only be eliminated if the tree is removed.

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

**Table 1. Tree Inventory**

Location: DeMachri, Milton

Date: 12 Sep. 2024 Surveyors: JJJ

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	Location	Comments	Action
1	Pear species	<i>Pyrus spp.</i>	13	G	G	G	2.5	Regional ROW	Coppice growth	Preserve
2	Pear species	<i>Pyrus spp.</i>	14	G	G	G	2.5	Regional ROW	Coppice growth	Preserve
3	Blue Spruce	<i>Picea pungens</i>	10	G	G	G	1	Regional ROW		Preserve
4	Blue Spruce	<i>Picea pungens</i>	5	G	FG	FG	0.5	Regional ROW	Dead leader	Preserve
5	Blue Spruce	<i>Picea pungens</i>	8	G	G	G	1	Regional ROW		Preserve
6	Unknown landscape tree	<i>unknown</i>	~5	G	G	G	1	Town ROW		Preserve
7	Sugar Maple	<i>Acer saccharum</i>	5	G	F	F	1	Town ROW	Top of crown dead	Preserve
8	Yellowwood	<i>Cladrastis kentukea</i>	8	G	G	G	1	Town ROW	Flare and stem buried in woodchips	Preserve
9	Manitoba Maple	<i>Acer negundo</i>	13, 10, 14, 16	F	F	G	3	Subject Property	Unions at ground and 0.6 m, sweep	Remove
10	Manitoba Maple	<i>Acer negundo</i>	19, 18, 20, 10	F	FG	G	4	Subject Property	Unions at ground and 0.5 m	Remove
11	Manitoba Maple	<i>Acer negundo</i>	27, 17, 23	P	F	F	4	Subject Property	Unions at ground and 1 m, tree failed and lying in the ground - root plate failure	Remove
12	Pin Oak	<i>Quercus palustris</i>	11, 7, 6	F	F	F	2	Subject Property	Union at 0.6 m, guy wire girdling trunk, 10% crown dieback	Remove
13	Pear species	<i>Pyrus spp.</i>	12	G	G	G	1.5	Regional ROW	Coppice growth	Preserve
14	Manitoba Maple	<i>Acer negundo</i>	10	FG	G	G	3	Subject Property	Light lean south	Remove
15	Manitoba Maple	<i>Acer negundo</i>	29	FG	G	FG	3	Subject Property		Remove
16	Eastern Cottonwood	<i>Populus deltoides</i>	27, 32, 28, 24, 28	F	FG	G	10	Subject Property	Union at ground	Remove
17	Eastern Cottonwood	<i>Populus deltoides</i>	11	G	G	G	2	Subject Property		Remove
18	Eastern Cottonwood	<i>Populus deltoides</i>	20	G	G	G	4	Subject Property		Remove
19	Eastern Cottonwood	<i>Populus deltoides</i>	34	G	G	G	5	Subject Property		Remove
20	Eastern Cottonwood	<i>Populus deltoides</i>	55, 33, 17, 41	F	FG	G	8	Subject Property	Union at ground	Remove
21	Eastern Cottonwood	<i>Populus deltoides</i>	51, 44, 53	F	FG	G	10	Subject Property	Union at ground	Remove
22	Willow species	<i>Salix spp.</i>	10-31, avg: 20	P	PF	F	8	Subject Property	Union at ground with dry rot, 16 stems, some stems failed and lying in ground	Remove
23	Green Ash	<i>Fraxinus pennsylvanica</i>	12, 23, 22	P	P	P	3	Subject Property	Union at 0.5 m, peeling bark, epicormic branching, 60% crown dieback, EAB infestation	Remove
24	Green Ash	<i>Salix spp.</i>	32, 9, 11	P	P	P	3	Subject Property	Union at 0.5 m	Remove
25	Willow species		23, 22, 21, 13, 20, 28	PF	F	FG	8	Subject Property	Union at ground, 1 dead stem lying on ground	Remove
26	Manitoba Maple	<i>Acer negundo</i>	25	FG	G	G	5	Subject Property	Lean north	Remove
27	Manitoba Maple	<i>Acer negundo</i>	22, 17, 28, 15	F	FG	G	4	Subject Property	Union at ground	Remove

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	Location	Comments	Action
28	Manitoba Maple	<i>Acer negundo</i>	30, 23, 28, 21, 36, 41, 27, 35	PF	F	G	8	Subject Property	Union at ground with dry rot and failed stem	Remove
29	Manitoba Maple	<i>Acer negundo</i>	13, 17	P	F	P	3	Subject Property	Union at ground, peeling bark, epicormic branching, EAB infestation	Remove
30	White Spruce	<i>Picea glauca</i>	~7	G	G	G	1	Neighbouring		Preserve
31	Bur Oak	<i>Quercus macrocarpa</i>	~6	G	F	F	1	Neighbouring	20% crown dieback	Preserve
32	Bur Oak	<i>Quercus macrocarpa</i>	~6	G	FG	FG	1	Neighbouring	~10% crown dieback	Preserve
33	Bur Oak	<i>Quercus macrocarpa</i>	~6	G	G	G	2	Neighbouring		Preserve
34	White Spruce	<i>Picea glauca</i>	~5	G	G	G	0.5	Neighbouring		Preserve
35	White Spruce	<i>Picea glauca</i>	~7	G	G	G	1	Neighbouring		Preserve
36	Blue Spruce	<i>Picea pungens</i>	~6	G	G	G	1	Neighbouring		Preserve
37	Sugar Maple	<i>Acer saccharum</i>	~8	G	G		1	Neighbouring		Preserve
38	Sugar Maple	<i>Acer saccharum</i>	~7	G	G	G	1	Neighbouring		Preserve
39	Tulip-tree	<i>Liriodendron tulipifera</i>	~7	FG	G	G	1	Neighbouring	Stem wounds	Preserve
40	Tulip-tree	<i>Liriodendron tulipifera</i>	~7	PF	F	PF	1	Neighbouring	Stem wounds at flare, top of crown dead, lean	Preserve
41	Tulip-tree	<i>Liriodendron tulipifera</i>	~7	F	G	G	1	Neighbouring	Stem wounds at flare	Preserve
42	Tulip-tree	<i>Liriodendron tulipifera</i>	~7	F	G	G	1	Neighbouring	Stem wound at flare	Preserve
43	Sugar Maple	<i>Acer saccharum</i>	~9	G	G	G	2	Neighbouring		Preserve
44	Sugar Maple	<i>Acer saccharum</i>	~8	FG	G	G	2	Neighbouring	Stem wound at flare	Preserve
45	Hedge Maple	<i>Acer campestra</i>	7	G	G	G	1	Town ROW		Preserve
46	Bur Oak	<i>Quercus macrocarpa</i>	77	F	G	G	9	Boundary - Town/Subject Property	Pruning wound at 1.5 m, diameter measured at 1 m due to pruning wound	Remove

Legend		
DBH	Diameter at Breast Height	(cm)
TI	Trunk Integrity	(G, F, P)
CS	Crown Structure	(G, F, P)
CV	Crown Vigor	(G, F, P)
DL	Dripline	(m)
G	Good	
F	Fair	
P	Poor	
~	Estimate	