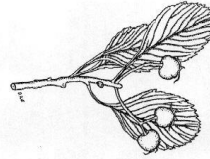


Arborist Report for 6939 King Street

Caledon, Ontario

June 13, 2022



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1. Introduction

The following is an arborist report for the property at 6939 King Street Drive, in Caledon Ontario. The purpose of this report was to ascertain the potential impacts of the proposed construction of a new development on the trees on the site and on adjacent properties.

2. Methods

An on-site inspection was made on August 17, 2020. The sizes of individual trees were measured as diameter at breast height (DBH), breast height being 137 cm from ground level. The locations of these trees are indicated on the modified site plan (Fig. 1). From the data collected plant Condition Rating (CR), Location Rating (LR), Species Rating (SR), and minimum Tree Protection Zones (TPZ), were estimated.^{1,2} The Appraised Values (AV) of road allowance trees were calculated according to the Trunk Method.²

It is necessary to protect all trees designated for preservation during both demolition and construction. This tree protection can be accomplished by protecting the said trees with *tree protection barriers*. The minimum tree protection zone (TPZ) radius is based on the diameter of the tree ($TPZ \approx 0.06_{m/cm} \times DBH_{cm}$). Tree barriers for road allowance areas would be composed of a 1.2 metres (4 ft.) high plastic safety fencing secured on metal T-bar supports as per city “framed hoarding” detail. Usually, tree protection barriers, not on road allowance, are to be “solid board hoarding” at 1.2 metres (4 ft.) high, and composed of plywood.³

No T-bars should be used to secure TPZ barriers as they could injure roots or come into contact with energized underground conductors. TPZ signs must be added to TPZ barriers. The phone number required to be printed on TPZ signage should be that of the appropriate District of the Tree Protection and Plan Review.

3. Discussion

There are plans to develop the site at 6939 King Street several non-exempt trees would need to be injured or removed, in order to allow for the proposed development (Table 1, Fig. 1).

Private trees

Twenty four (24) private trees are candidates for preservation. Twenty-Seven (27) non-exempt private trees with a DBH over 10cm will require removal due to the extent of grading to allow for the proposed development.

Refer to Figure #1 and Tree Preservation & Removal Plan prepared by *MSLA Landscape Architects* for locations.

4. Conclusion

In order to allow for the proposed construction at 6939 King St, several non-exempt trees would be removed or injured as follows:

Twenty Seven (27) privately owned non exempt trees over 10cm DBH are proposed for removal.

No (0) city owned trees are proposed for removal.

No (0) neighbouring trees are proposed for removal..

Based on the Town of Caledon Tree Removal Compensation Requirements as total of Fourty-seven (47) compensation trees are required (refer to chart below)

Caledon Tree Removal Compensation:

Compensation shall be determined based on the diameter at breast height (dbh) as follows

<u>Diameter at Breast Heigh (cm)</u>	<u>Compensation Ratio</u>	<u>Trees per DBH</u>	<u>Compensation Req'd</u>
<10	N/A		
10-20	1:1	11	11
21-35	2:1	13	26
36-50	3:1	2	6
51-65	4:1	1	4
>65	5:1	0	0
	Total:	27	47

MSLA Landscape Architects has developed a detailed tree preservation plan and proposed landscape plan for the subject site.

D. Andrew White M. Sc.



June 2022

Table #1. Tree number (No.), species, diameter at breast height (DBH), Condition Rating (CR) Tree Category (TC) and comments.

No.	Tree Species	DBH (cm)	CR (%)	TC	Comments	Recommendation
#1+	privet hedge	1-4	65-70	Private	Front yard hedge	To be Removed
#2	bur oak	14	55	Private	Small ok with dead branches	To be Removed
#3	privet	2-5	65	Private	Untrimmed privet	To be Removed
#4	buckthorn	1-3	65	Private	Naturalised tree near utility pole	To be Removed
#5	green ash	10	50	Private	Ash tree in poor condition	To be Removed
#6	weeping willow	40	65	Private	Tree with crown base at 2 m	To be Removed
#7	weeping willow	16-46	60	Private	Tree with crown base at 2 m	To be Removed
#8	green ash	15	0	Private	Small dead tree	To be Removed
#9	green ash	21	0	Private	Small dead tree	To be Removed
#10	green ash	15	0	Private	Small dead tree	To be Removed
#11	weeping willow	65	65	Private	Tree with crown base at 2.5 m	To be Removed
#12	white birch	18	55	Private	Trunk bifurcates at 0 m	To be Removed
#13	white birch	23-24	60	Private	Trunk bifurcates at 0 m	To be Removed
#14	Manitoba maple	18	60	Private	Multi-stem tree	To be Removed
#15	Manitoba maple	22	65	Private	Multi-stem tree	To be Removed
#16	Manitoba maple	34	60	Private	Multi-stem tree	To be Removed
#17	green ash	16	0	Private	Dead tree	To be Removed
#18	catalpa	11	60	Private	Probably from coppice	To be Removed
#19	apple tree	6	65	Private	Small new tree	To be Removed
#20-36	Emerald cedars	8-12	65-75	Private	Ornamentals, fair to good condition	To be Removed
#37	Manitoba maple	22	65	Private	Naturalised small tree	To be Removed
#38	Manitoba maple	21	65	Private	Naturalised small tree	To be Removed
#39	Manitoba maple	9	70	Private	Naturalised small tree	To be Removed
#40	Manitoba maple	32-34	65	Private	Double stem tree near house	To be Removed
#41	Norway maple	27	70	Private	Tree in good condition	To be Removed
#41	horse-chestnut	16-18	60	Private	Tree in low-fair condition	To be Removed
#41b	silver maple	2-6	65	Private	Probably a coppice	To be Removed
#42	cottonwood	20	55	Private	Declining tree	To be Removed
#43	apple tree	4-5	55	Private	Untrimmed fruit tree	To be Removed
#44	apple tree	4-5	60	Private	Untrimmed fruit tree	To be Removed
#45	apple tree	1-3	60	Private	Untrimmed fruit tree	To be Removed

#46	apple tree	4-5	60	Private	Untrimmed fruit tree	To be Removed
#47	plum	3-4	60	Private	Untrimmed fruit tree	To be Removed
#48	apple tree	9-14	60	Private	Untrimmed fruit tree	To be Removed
#49	apricot	1-2	60	Private	Untrimmed fruit tree	To be Removed
#50	apple tree	22-28	55	Private	Untrimmed fruit tree	To be Removed
#51	apple tree	19-27	60	Private	Untrimmed fruit tree	To be Removed
#52	apple tree	24-26	55	Private	Tree bifurcates at 1.3 m	To be Removed
#53	apple tree	16-19	55	Private	Untrimmed fruit tree	To be Removed
#54	shining willow	16-26	60	Private	Multi-stem tree near shed	To be Removed
#55	Russian olive	14-35	65	Private	Tree bifurcates at 1.6 m	To be Removed
#56	apple tree	10-14	50	Private	Declining tree, with dead top	To be Removed
#57	pear tree	15-16	0	Private	Dead tree near shed	To be Preserved
#58	weeping willow	28	55	Private	Tree near property line & swale	To be Preserved
#59	weeping willow	27	55	Private	Tree near property line & swale	To be Preserved
#60	weeping willow	19	60	Private	Tree near property line & swale	To be Preserved
#61	weeping willow	62	55	Private	Large tree near swale	To be Preserved
#62	weeping willow	19	60	Private	Large tree near swale	To be Preserved
#63	weeping willow	34	60	Private	Large tree near swale	To be Preserved
#64	weeping willow	18	55	Private	Large tree near swale	To be Preserved
#65	cottonwood	12	50	Private	Declining tree	To be Preserved
#66	weeping willow	48	60	Private	Large tree near swale	To be Preserved
#67	weeping willow	34	60	Private	Large tree near swale	To be Preserved
#68	weeping willow	42	60	Private	Large tree near swale	To be Preserved
#69	weeping willow	36	60	Private	Large tree near swale	To be Preserved
#70	weeping willow	16	50	Private	Large tree near swale, poor condition	To be Preserved
#71	weeping willow	22	55	Private	Large tree near swale	To be Preserved
#72	weeping willow	18	55	Private	Large tree near swale	To be Preserved
#73	weeping willow	56	55	Private	Tree near property line & swale	To be Preserved
#74	weeping willow	52	60	Private	Tree near pond	To be Preserved
#75	weeping willow	58	60	Private	Tree near pond	To be Preserved
#76	weeping willow	22	55	Private	Tree near pond	To be Preserved
#77	weeping	32	60	Private	Tree near pond	To be Preserved

	willow					
#78	weeping willow	32	60	Private	Tree near pond	To be Preserved
#79	weeping willow	34	60	Private	Tree near pond	To be Preserved
#80	weeping willow	14-64	55	Private	Tree trifurcates at 1.2 m	To be Preserved

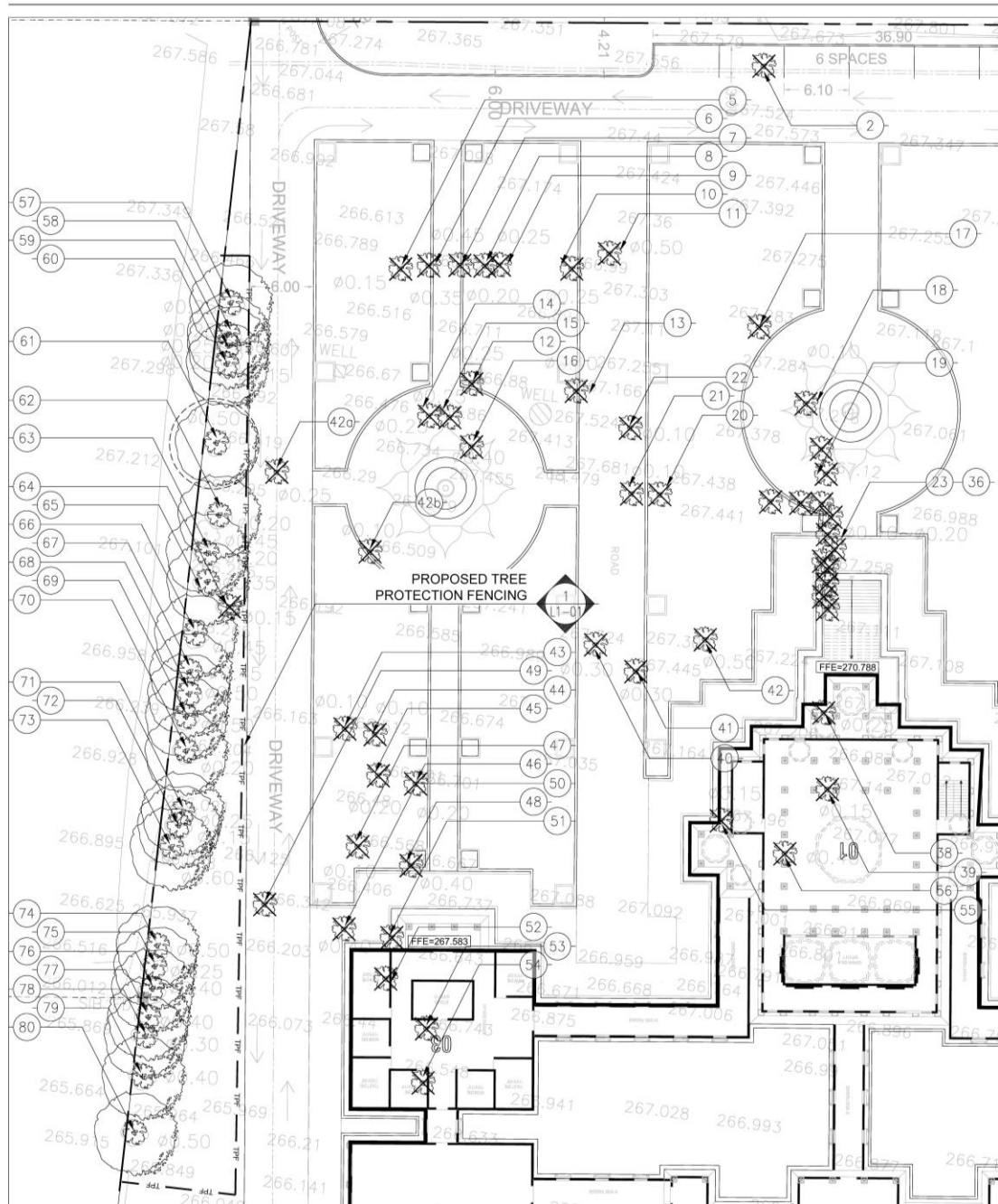
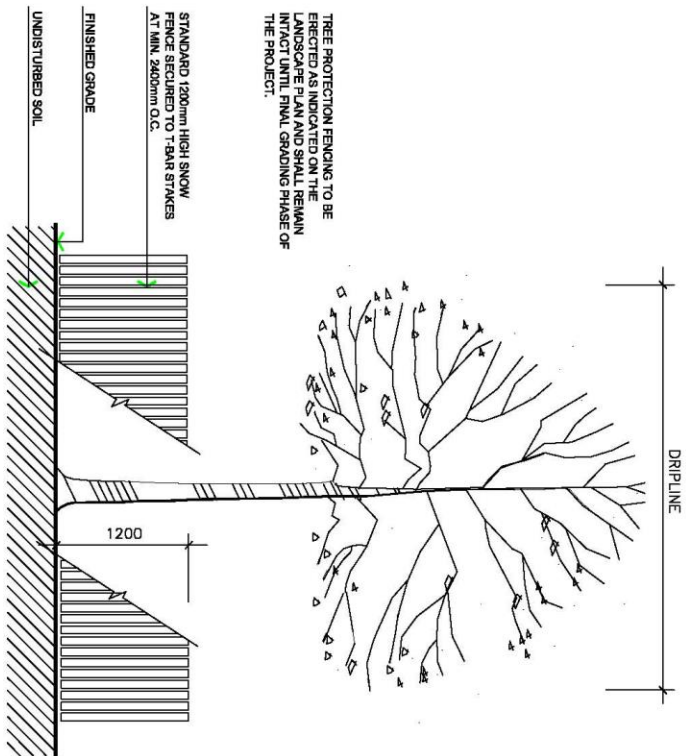


Figure #1: Tree locations on the 6939 King Street development site.

Figure #2: Caledon General Notes

- During construction and prior to final approval by the Town, the consulting Arborist along with appropriate Town staff shall intermittently inspect the entire site. Any noted hazardous trees must be identified and removed prior to Assumption or earlier if deemed hazardous at the sole cost of the Owner/Applicant. Any records of maintenance or removals are to be submitted to the Town.
- Compensation will be required for all tree removals at a rate as determined by the Town's Tableland Tree Removal Compensation. Tree compensation planting will be in addition to the standard required planting. In the event tree compensation cannot be accommodated for in the planting design, financial compensation shall be collected at a rate (per tree) as determined by the Town. Based on the compensation ratio, (insert number) replacement trees are required to compensate for the removal of trees on the subject property.
- Removals should occur outside of the breeding bird season (April 1- August 1). If this is not possible, clearance with an ecologist should occur prior to construction to ensure no loss of bird nest, egg or unfledged young.
- Any trees located on the property line or on the adjacent property that are proposed to be removed, pruned or injured, will require written consent from the adjacent landowner. All correspondence is to be forwarded to the Town prior to any removals.
- Minor grading works may be permitted at the edge of the preservation zone as required to correct localized grading issues adjacent to the proposed development at the discretion of the Town. This work is to be undertaken under the supervision of the consulting Arborist. The consulting Arborist is to verify in writing to the Town, confirming that the work has been completed as per the approved design using best arboricultural practices.
- Areas within the tree protection zone shall remain undisturbed for the duration of site construction and shall not be used for the storage of excavated fill, building/construction material, structures or equipment.
- The limit of tree protection hoarding shall be confirmed in the field by the consulting arborist, Town staff and conservation authority (if applicable). The Owner/Applicant shall be responsible for ongoing maintenance and repairs to tree protection fencing to the satisfaction of the Town, until final approval by the Town and conservation authority (if applicable). The Owner/Applicant shall not remove and not cause or permit any tree preservation fencing to be removed without the approval of the Town and conservation authority (if applicable).



- SPECIFICATIONS FOR THE PROTECTION AND PRESERVATION OF EXISTING VEGETATION:
1. PRIOR TO ISSUANCE OF THE BUILDING PERMIT, ALL EXISTING TREES THAT ARE TO BE PRESERVED SHALL BE FULLY PROTECTED WITH HOARDING (IE SNOW FENCING OUTSIDE THEIR DRIPLINES), TO THE SATISFACTION OF THE TOWN.
 2. GROUPS OF TREES AND OTHER EXISTING PLANTINGS TO BE PROTECTED SHALL BE TREATED IN A LIKE MANNER WITH HOARDING AROUND THE ENTIRE CLUMPS).
 3. AREAS WITHIN THE PROTECTIVE FENCING SHALL REMAIN UNDISTURBED AND SHALL BE KEPT FREE OF ALL BUILDING MATERIALS OR EQUIPMENT AND CONTAMINANTS SHALL BE DUMPED OR FLUSHED WHERE FEEDER ROOTS OF TREES EXIST.
 4. PRUNE BRANCHES TO REMOVE DAMAGED LIMBS ONLY. DO NOT DAMAGE LEADERS. ALL CUTS OVER 25mm SHALL BE TREATED IN ACCORDANCE WITH APPROPRIATE HORTICULTURAL PRACTICES AS APPROVED BY THE TOWN.
 6. CUTTING OF ROOTS OR CHANGING OF GRADES AROUND EXISTING TREES TO BE PRESERVED WILL NOT BE PERMITTED WITHOUT THE APPROVAL OF THE PUBLIC WORKS AND ENGINEERING DEPARTMENT.
 7. TREES THAT HAVE DIED, OR HAVE BEEN DAMAGED BEYOND REPAIR SHALL BE REPLACED AT THE DEVELOPER'S EXPENSE, WITH TREES OF A SIZE AND SPECIES APPROVED BY THE TOWN.
 8. IF TREES ARE BEING ADVERSELY AFFECTED BY CONSTRUCTION, A WATERING AND FERTILIZING PROGRAM IS TO BE SET UP TO THE SATISFACTION OF THE TOWN.
 9. TREE PRESERVATION FENCE TO BE INSPECTED BY THE CONSULTING LANDSCAPE ARCHITECT AND APPROVED PRIOR TO CONSTRUCTION COMMENCING.

TOWN OF CALEDON

TREE PRESERVATION

NO.	REVISION	APRD	DATE
2	STANDARD No. 1158 NOW 707, NOTES ENT NOTE NO. 9 ADDED		JUNE 08
1			MARCH 08

APRD: C. C. DATE: JUNE 08

DRAWN: abal SCALE: NTS

STANDARD No. 707

5. References

1- Council of Tree Landscape Appraisers. 2000. Guide for Plant Appraisal. 9th Edition. International Society of Arboriculture.

2- International Society of Arboriculture of Ontario. 1998. Ontario Supplement to Guide for Plant Appraisal 8th Edition. Ontario Chapter, International Society of Arboriculture.



NW Front Willows



NW Drive Aisle



NW Drive Aisle



NW Willows



NW Road



West Property Line



West Yard



West Yard near Dwelling