

TREE INFORMATION REPORT FOR 57 MURIEL STREET, OTTAWA

Prepared by Sid Thakar, OALA, Thakar Associates Design Consultants
February 22, 2023

Tree #	Tree Information	Location	Size	Condition	CRZ
#1	Sugar Maple <i>Acer saccharum</i>	57 Muriel St. Front yard	70mm cal.	Good	N/A
#2	Silver Maple <i>Acer saccharinum</i>	Adjacent property 53 Muriel St. (West)	80cm DBH	Good	8m
#3	Norway Maple <i>Acer platanoides</i>	Adjacent property 42 Gordon St. (Rear)	40cm DBH	Good	4m
#4	Red Maple <i>Acer rubrum</i>	Adjacent property 59 Muriel St. (East)	20cm DBH	Good	2m

Contact Information

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Overview of existing vegetation

Subject site:

The only existing vegetation of significance on the subject site is a single Sugar Maple *Acer saccharum* (Tree # 1) approximately 70mm cal. in good condition located at the south-west of the property in the front yard. The rest of the property has a variety of weedy and shrubby growth, including a multi stemmed Common Lilac *Syringa vulgaris* shrub approx. 3m in height and in fair condition at the southeast corner of the site on the property line. A small Eastern Cedar *Thuja occidentalis* shrub in poor condition is also growing along the property line adjacent to the lilac bush. The CRZ of this tree is approx. 2 m in diameter.

Adjacent sites:

On the adjacent properties, two large trees and a smaller one are worth noting, and are described as follows:

Tree # 2 Silver Maple: This is a 80cm DBH Silver Maple *Acer saccharinum* on 53 Muriel Street located just north of the existing driveway on the subject site and approx. 2.0 m from the property line. This massive tree is in good condition but has a pronounced root mass girdling the base of the tree that is approximately 80 cm higher than surrounding grade. The existing driveway has cut into the edge of this root mass but appears not to have affected the health or survivability of the tree. The CRZ of this tree is approx. 8m in diameter.

Tree # 3 Norway Maple: This is a 40cm DBH Norway Maple *Acer platanoides* located on 42 Gordon St to the rear of the subject site and approx. 10 cm from the property line. This tree is in good condition and has a CRZ approx. 4.0m in diameter.

Tree # 4: This is a 20cm DBH Red Maple *Acer rubrum* about 1.2 m south of the subject property in the rear yard of 59 Muriel St. It has a CRZ of 2 m. This tree is in good condition, but it is far enough away from the property line that any excavation or grade changes are unlikely to have any noticeable impacts on its health or survivability.

Impact of Development

Tree #1: The existing 50mm Sugar Maple (Tree # 1) will have to be removed as it will be in direct conflict with the proposed driveway location and related construction activities.

Tree #2: With proper protection during construction the large existing Silver Maple will not be significantly affected. Silver Maples are well adapted to urban conditions and site changes, so the long term survival of this tree should not be a concern.

Protection Measures: Excavation will be approx 6 m from this tree which will be just outside the CRZ; however a Tree Protection Fence should be installed prior to start of construction at the location indicated on the plan to ensure protection of the tree and its roots (see City of Ottawa Tree Protection Measures described on the plan)

Tree #3 The Red Maple on the adjoining property to the rear of 57 Muriel (42 Gordon St) is not expected to be affected by the proposed development as no major excavation or grade change is proposed in the close vicinity of this tree. Tree protection measures including standard snow fencing at the property line should be adequate; however additional measures to protect exposed roots, if required, as per attached City of Ottawa Tree Protection Measures described on the plan.

Tree #4: The Norway Maple on the adjoining property 59 Muriel St is not expected to be affected by the proposed development as no major excavation or grade change except the driveway is proposed in the vicinity of these trees. Tree protection measures including standard snow fencing at the property line should be adequate; however additional measures to protect exposed roots, if required, as per attached City of Ottawa Tree Protection Measures described on the plan.

Comments: The proximities of the subject trees are fairly common in infill projects, and with the exception of the Red Maple (Tree # 4), the other two trees are not the best species to have close to homes (e.g. Silver Maple) or not desirable from a native canopy perspective (e.g. Norway Maple).

The Silver Maple (Tree # 2) is a major concern for foundation damage because of its aggressive roots and its proximity to the buildings, and in any case, it is quite tolerant of disturbances around its roots. Retaining the existing driveway in its present location is not advisable as the aggressive surface roots of the Silver Maple will more than likely damage the asphalt.

The other tree at the back is a Norway Maple (Tree # 3) and it is not significantly affected by the corner of the garage encroaching into a very small section of its CRZ. The conflicts with the CRZ of the Red Maple (Tree # 4) is unavoidable because of the new driveway location, hence the protection fence will have to be located at the property line.

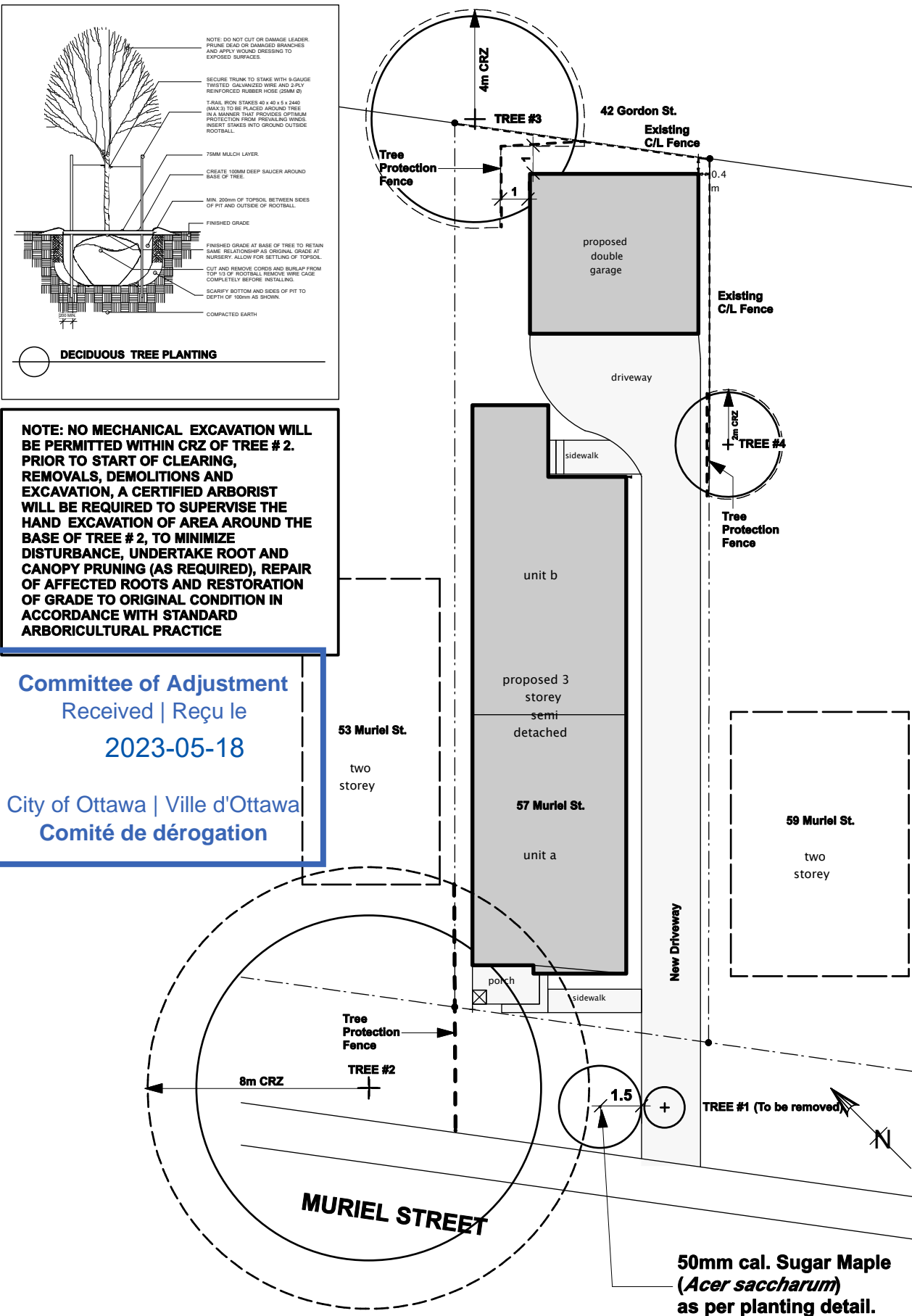
Recommended actions during construction:

To minimize damage during construction, the services of a certified arborist will be retained at the time of excavation so they can advise on the safest way to trim roots and branches to safeguard the trees.

Tree # 2: The actual site conditions at the time of excavation will determine the specific actions that will be taken to protect roots. The area around the base of Tree # 2, including the existing driveway materials and the soil surrounding the roots, will be excavated BY HAND, under the supervision of a certified arborist to identify and isolate the roots to the required depth (estimated to be approx. 30 cm). The exposed roots will be kept moist with a covering of moist burlap while root pruning and associated branch pruning is carried out to minimize conflict with existing roots and foundation of the proposed unit. This can only be estimated at this time because it is not possible to predict what actual site conditions will be. Once the root pruning is completed the whole excavated area will be backfilled with imported topsoil in 15 cm layers and lightly compacted to prevent excessive settlement and compaction around root zone. The area will be brought up to the prescribed finished grade and sodded. The affected area will be kept watered throughout the construction period to ensure optimum moisture availability for the roots and the sod.

Tree # 3: The proposed garage is slab on grade, so there will be very minimal disturbance to the CRZ. The tree protection fencing in this case can be located about a metre from the edge of the slab to minimize any impact on the CRZ area.

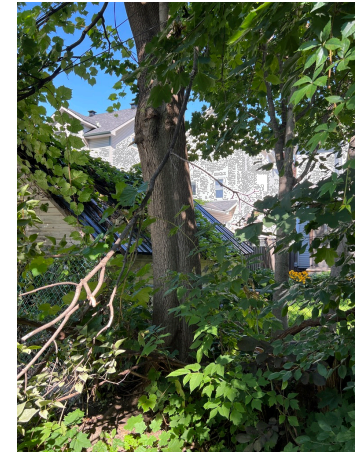
Compensatory planting: Due to the removal of Tree # 1, a replacement 50mm cal. Sugar Maple (*Acer saccharum*) will be planted 1.5m away from the edge of the new driveway as shown on the plan.



Tree #1



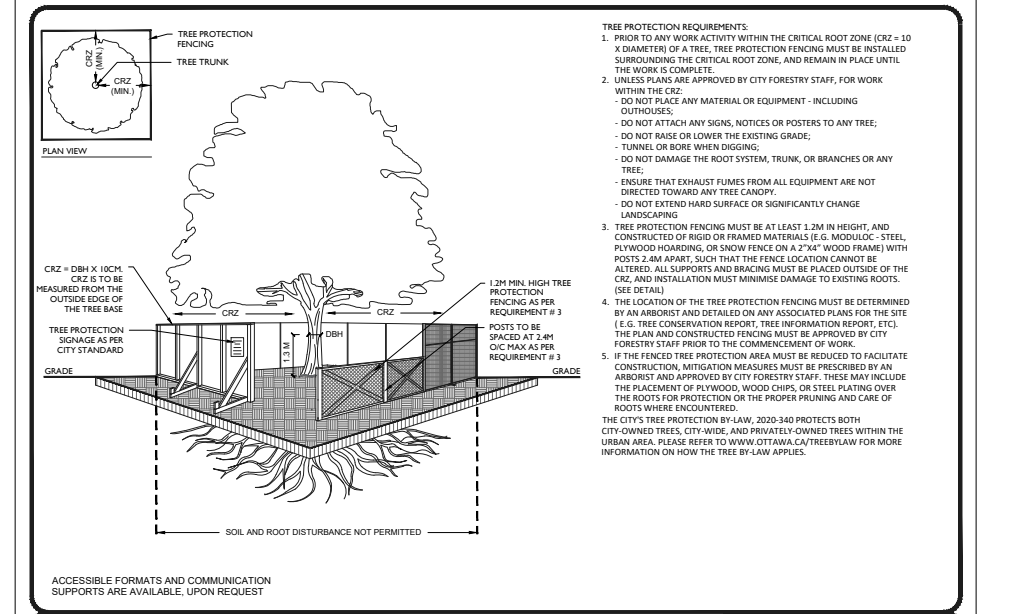
Tree #2



Tree #3



Tree #4



	TREE PROTECTION SPECIFICATION	SCALE: NTS
	TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.	DATE: MARCH 2021
		DRAWING NO.: 1 of 1

57 MURIEL STREET: TREE INFORMATION REPORT
Scale 1:200