



Manotick Tree

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1966 Carsonby Road West
North Gower, ON K0A 2T0
Phone: (613) 489-1116
Fax: (613) 489-1117
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Ardington and Associates
43 Eccels Street Unit C, Ottawa, ON
613-882-3425 • steve@ardington.ca

ATT'N: Steve Ardington

RE: Tree Information Report for 626 Tweedsmuir Ave

Committee of Adjustment
Received | Reçu le
2023-08-08
City of Ottawa | Ville d'Ottawa
Comité de dérogation

July 7, 2023

This report details pre-construction tree information for the above noted property in Ottawa. The proposed work for this site consists of demolition of the existing single-family home and rebuilding of a new single-family home.

This report includes assessments of all the trees on the property, including boundary and adjacent trees that are greater than 10cm diameter at breast height (DBH).

Under the Tree Protection By-law, the following protected trees cannot be injured or removed without a tree permit from the City:

- All City-owned trees throughout the urban and rural area
- All trees 10 cm or more in diameter at breast height on private properties within the urban area that are subject to a Planning Act application for Site Plan, Plan of Subdivision, or Plan of Condominium
- All trees 10 cm or more in diameter at breast height on private properties within the urban area that are over 1 hectare in size
- All distinctive trees on private properties 1 hectare or less in size, where distinctive trees are defined as:
 - Trees measuring 30 cm or more in diameter at breast height within the inner urban area (urban lands inside the Greenbelt)
 - Trees measuring 50 cm or more in diameter at breast height within the suburban area (urban lands outside the Greenbelt)

The properties of these trees are noted in the table on page 2. Pictures are provided on page 3 for any distinctive tree that requires a removal permit from the City.

The information for this report was gathered on Friday, June 30, 2023.

Tree	Species	DBH (cm)	Location	Ownership	CRZ (m)	DE (m)	Tree Condition	Reason for Removal	Arborist's opinion if removal
A	Norway Maple	20	Back right	Client	2	1	Good	Construction	Recommend remove tree, inferior species
B	Buckthorn	33, 30, 15	Back right	Client	3	1	Poor	Construction	Recommend remove tree, poor health
C	Buckthorn	20, 20, 20, 20, 20	Back right	Client	2	1.5	Poor	Construction	Recommend remove tree, poor health

Key Definitions

CRZ (Critical Root Zone): is established as being 10cm from the trunk of a tree for every centimetre of trunk DBH.

The CRZ is calculated as DBH x 10cm. This provides direction for the location of the tree protection fencing.

DBH (Diameter at breast height): The measurement of a trunk of a tree at a height of 120cm.

DE (Distance to excavation): The measurement of the distance from the nearest edge of the tree's trunk to adjacent excavation limits.

Boundary Tree means a tree, of which any part of the trunk is growing across one or more property lines.

Adjacent Tree means a tree whose trunk is growing on a property sharing a boundary with the subject site.

Figure 1: Buckthorn (B) A removal permit is required for removing this tree



Provincial Regulations

As the arborist, we are responsible to abide by all Provincial Regulations such as the Endangered Species Act which mandates that tree species on the Species at Risk in Ontario list be identified. Butternut (*Juglans cinerea*) is found in Eastern Ontario and is listed as threatened. Due to it being on the list, it must be protected from harm.

No protected species were identified on this or adjacent properties.

Impact of Development:

Items A-C are all within 2 meters of the proposed construction, these trees will become unstable after excavation. Items B and C are also in poor condition.

Tree Protection Measures:

The Tree Protection By-law requires that anyone working near protected trees must adhere to the following unless otherwise authorized by the City:

- Erect a 1.2m high fence around the outer edge of the critical root zone (CRZ) of trees prior to beginning other site work, and maintain the fence until the work is complete
- Not place any material or equipment within the CRZ of the tree
- Not raise or lower the existing grade within the CRZ of a tree
- Not extend any hard surface or significantly change landscaping within the CRZ of a tree
- Not attach any signs, notices or posters to any tree, except as required by this by-law for trees to be removed
- Not damage the root system, trunk or branches of any tree
- Ensure that exhaust fumes from equipment are not directed toward any tree's canopy

It is an offence under the Tree Protection By-law to fail to adequately protect a tree that has not been approved for removal.

Pre-Construction Measures:

To retain any tree where excavation falls within the critical root zone, the best practice would be to use hydra excavation to expose any roots along the area where the excavation will be dug and then cut any roots visible with a pair of sterilized snips or a sharp saw before continuing to excavate.

Where digging encounters roots, we suggest that cutting the roots is the preferred method to tearing roots by equipment. Limit construction equipment from the area as much as possible to prevent extra root compaction. If travel over the root zone is required a buffer of woodchips spread thick enough to stabilize a ¾-inch sheet of plywood should be applied. Fertilizing in the spring and applying mulch post-construction is advised.

Post-Construction Measures:

Aerate and fertilize the retained trees if impacted by construction. Applying mulch post-construction is advised. Deadwood and weakly attached branches can be pruned out post-construction, but other pruning should be minimized, if possible, for a couple of years to allow the trees to recover.

Replacement Tree Planting or Compensation:

When tree removals cannot be avoided, and compensation planting is required it must be done post-construction and at final grade. Otherwise, the City will request monetary compensation if planting a new tree is not feasible after the construction has commenced. There will not be sufficient space on the property to plant a new tree after construction, it is likely the City will request monetary compensation. Otherwise, we recommend planting a small ornamental or dwarf tree species. Unfortunately, Manotick Tree Movers does not carry dwarf trees so we would suggest looking for one at your local garden centre if a new tree planting is required.

Respectfully submitted,
Fred Stevens
613-229-6653
Certified Arborist #ON-0320A and TRAQ Certified

Self- Declaration (to be signed by property owner):

By signing the application, you are acknowledging and understanding that an inspector may enter the property at a reasonable time for the purpose of carrying out an inspection. You also acknowledge and understand that through failure to abide by the recommendations of the approved Tree Information Report, damaging or destructing trees identified for protection, you will be responsible to bear fully the cost of compensation, removal, and replacement.

It is the owner/applicant's responsibility to ensure that all protection and mitigation measures described in the TIR are followed, and where necessary are done so under the supervision of an arborist.

X _____
Client Name and Phone Number

