

October 29, 2015

Town of Oakville, Forestry Section

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Engine Developments

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Re: #2266 Lakeshore Road W. and 83 East St. (Ward 1)

Arborist Report – Construction/Tree Protection

Central Tree Care Ltd. has been retained by Engine Developments to provide a professional arborist report related to the proposed construction at 2266 Lakeshore Road West and 83 East Street. The nature of the construction includes the excavation of both lots, up to the property line. The purpose of this report is to document the impact to each tree and make recommendations for their care.

To facilitate the construction, **two trees require a permit for injury** and **three trees over the diameter of 20cm require removal**. This arborist report and attached protection plan is based on the assumption that no additional trees will be injured or removed.

TREE INVENTORY

An inventory of all trees (over 20 cm plus city trees) on or within six meters of the work area was conducted on September 17, 2015. All trees were inspected from the ground only:

Tree #	Common	Scientific	Health	Structure	DBH (cm)	Crown Spread (m)	TPZ (m)	Comments	Recommended Action
1a	Linden	<i>Tilia cordata</i>	Fair - Poor	Fair	Max 10	1.5	1.8	Various stems in the area, approx. 25 small stems no greater than 10cm. Some belong to an Amur Maple.	Below the size of a protected tree; requires removal due to proposed development.
1	Green Ash	<i>Fraxinus pennsylvanica</i>	Poor	Fair	27	2	2.4	Tree is infested with Emerald Ash Borer (EAB), dieback within the canopy.	Tree is infested with EAB; removal is recommended. Requires removal due to proposed development.
2	Norway Maple	<i>Acer platanoides</i>	Fair	Good	17	1	2.4	Tree foliage is affected by leaf scorch. Tree belongs to the Town of Oakville.	Tree belongs to the Town of Oakville; requires permission to injure due to proposed development.
3	Norway Maple	<i>Acer platanoides</i>	Poor	Good	21	1	2.4	Tree has about 40% dieback, with the rest of the foliage severely affected by leaf scorch. Tree is City owned.	Outside of work area.

4	Honey Locust	<i>Gleditsia triacanthos</i>	Fair	Good	25	3	2.4	Deadwood throughout the canopy, including some large deadwood. Some stubs remain from old pruning cuts. Tree belongs to neighbouring property on Lakeshore Rd W.	Requires permission to injure due to proposed development.
5	Silver Maple	<i>Acer saccharinum</i>	Poor	Poor	85	8	5.4	Tree is about 80% dead, with remaining foliage dying back due to leaf scorch.	Tree is in advanced state of decline; removal is recommended. Requires removal due to proposed development.
6	Honey Locust	<i>Gleditsia triacanthos</i>	Good	Good	32	3	2.4	A healthy specimen. Tree belongs to neighbouring property on Lakeshore Rd W.	Outside of work area.
7	Silver Maple	<i>Acer saccharinum</i>	Fair	Fair	70, 65	3	4.2	Two main stems have been removed, with the remaining stubs decaying. Epicormic shoots grow from the base around the removed stems. Small deadwood throughout the canopy, and included bark within the main unions. Tree is located on neighbouring property, at 2262 Lakeshore Rd W.	Requires permission to remove due to proposed development.
8	Green Ash	<i>Fraxinus pennsylvanica</i>	Fair - Poor	Fair	8	1	1.8	Tree grows within the canopy of a dead willow tree, canopy is sparse.	Below the size of a protected tree; requires removal due to proposed development.
9	Silver Maple	<i>Acer saccharinum</i>	Fair	Fair	35, 40	3	2.4	Tree has branch failures due to ice storm. A leader has died back from one of the main stems, leaving a large cavity within. Some epicormic shoots grow along the main stems. Tree belongs to the neighbouring property of Lakeshore Rd W.	Outside of work area.

****Trees #1 -3 in the above inventory are on Town property**

EXPECTED IMPACT TO EXISTING TREES

Trees #1a, and 8 are located within the excavation footprint at 2266 Lakeshore Road West and 83 East Street, and will require removal. The subject trees are under 20cm in diameter, and are not protected under the Private Tree Bylaw.

Tree #2 is located on town property, at the northernmost corner of the property lines at 2266 Lakeshore Road West. The proposed excavation will encroach into the tree protection zone (TPZ), at 1.2m from the base of tree #2. It is expected that the subject tree will suffer some root loss due to the excavation. If the recommendations are adhered to, we expect the tree to tolerate the injury.

Tree #4 is located on the neighbouring property, at 2262 Lakeshore Road West. The proposed excavation will encroach into the tree protection zone (TPZ), at 1.6m from the base of tree #4. It is expected that the subject tree will suffer minor root loss due to the excavation. If the recommendations are adhered to, we expect the tree to tolerate the injury. In order to facilitate the construction, **tree #4 will require permission to be injured.**

Trees #1, 5, and 7 are located close to the construction footprint. Of these, trees #5 and 7 are located along the south property line of 2262 Lakeshore Road West. Trees #1 and 5 are located within the footprint of the proposed excavation area, and will require removal. These trees are in advanced stages of decline and are also recommended for removal on this basis.

The excavation zone will encroach into the TPZ of tree #7 up to the base, which will cause destabilization from the root zone. It is expected that tree #7 will suffer intolerable root loss and is recommended for removal. **Trees #1, 5, and 7 will require removal due to the proposed excavation.**

RECOMMENDATIONS

Under the current plan, excavation work is required within the TPZ of trees #2 and 4. The following recommendations must be followed to minimize damage to the trees:

- A qualified arborist must be on site for the complete duration of each dig. It is the arborist duty to instruct the labourers, and minimize damage to the tree.
- The arborist is also responsible for all root pruning, and to promote 'working around' roots whenever possible.
- All excavation within the TPZ is to be done by hand in order to accurately locate roots.
- All excavation within the TPZ of a protected tree is to be documented; a report of the findings should then be submitted to the Forestry Department.
- Should the occasion arise, the onsite arborist must also determine if the impact is too great for the tree to be preserved the subject tree must then be considered for removal. Proper permit removal and replacement process must be followed in accordance with the Forestry Department standards.

Hoarding must be installed by a qualified contractor and put in place as accurately as possible using the scale plan as the reference. It must conform to the recommendation put forth by the Town of Oakville and recommendations within this report. All the protective fencing must be maintained throughout the construction project and its removal must be approved by the Forestry planner. All hoarding must be installed before demolition or construction commences and approved by the Forestry planner.

The TPZ is established on construction sites to help protect the trees from:

- Alteration of existing grades
- Changes in grade by excavating and scraping
- Movement of construction vehicles and people
- Disposal of foreign materials
- Storage of waste of construction materials

The tree protection barriers can be constructed from:

- 4ft. high plywood hoarding that can be lowered around limbs, with the supports on the outside
- 4ft. high orange plastic snow fence on a 2"X 4" frame work, this is recommended were visibility is an issue This is recommended for city trees
- If fill or excavates are going to be placed near the plastic fence a plywood barrier must be used to stop these materials from entering the TPZ.
- For more information on the construction of a tree protection zone please see the Town of Oakville's web site and go to By-laws and Policies.

Implementation of protection:

- All TPZ must be erected before any type of construction commences on the subject site.
- Before construction begins the TPZ must be inspected by city forestry staff and the consulting arborist.
- Before any digging commences around a tree subject to injury by permit, the consulting arborist must be informed.
- To dig near a tree subject to injury by permit the consulting arborist must be on site to supervise the excavation.
- Hoarding cannot be removed until all construction is finished

SUMMARY

2266 Lakeshore Road West and 83 East Street are going to undergo excavation of the whole site to construct a new structure on site. Trees #1, 5, and 7 require removal in relation to the work, and trees #2 and 4 require permission for injury. Trees #1a and 8 are under 20cm in diameter, and are not protected under the Private Tree Bylaw.

I trust this report meets or exceeds the standard that is required by the Town of Oakville Forestry department. If there are any questions please contact me at 613 219 4625.

Thank you,

c/o Alexandria Leung Humber Certified
Mike Spencley ON-1379A
Central Tree Care Ltd.



ON-1379A

ATTACHEMENT: PHOTOS

Photo 1: Trees #1a and 1.

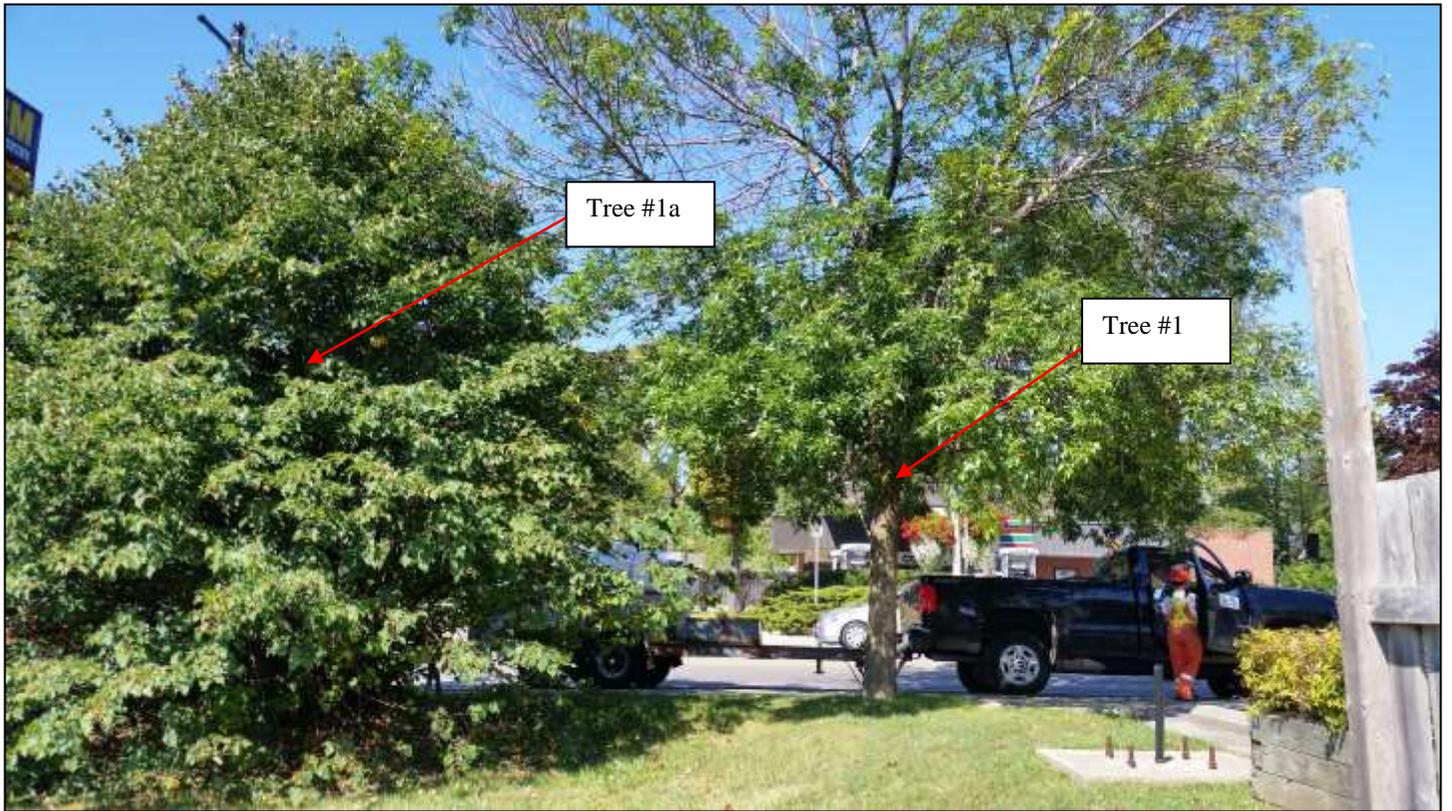


Photo 2: Trees #2 - 6.

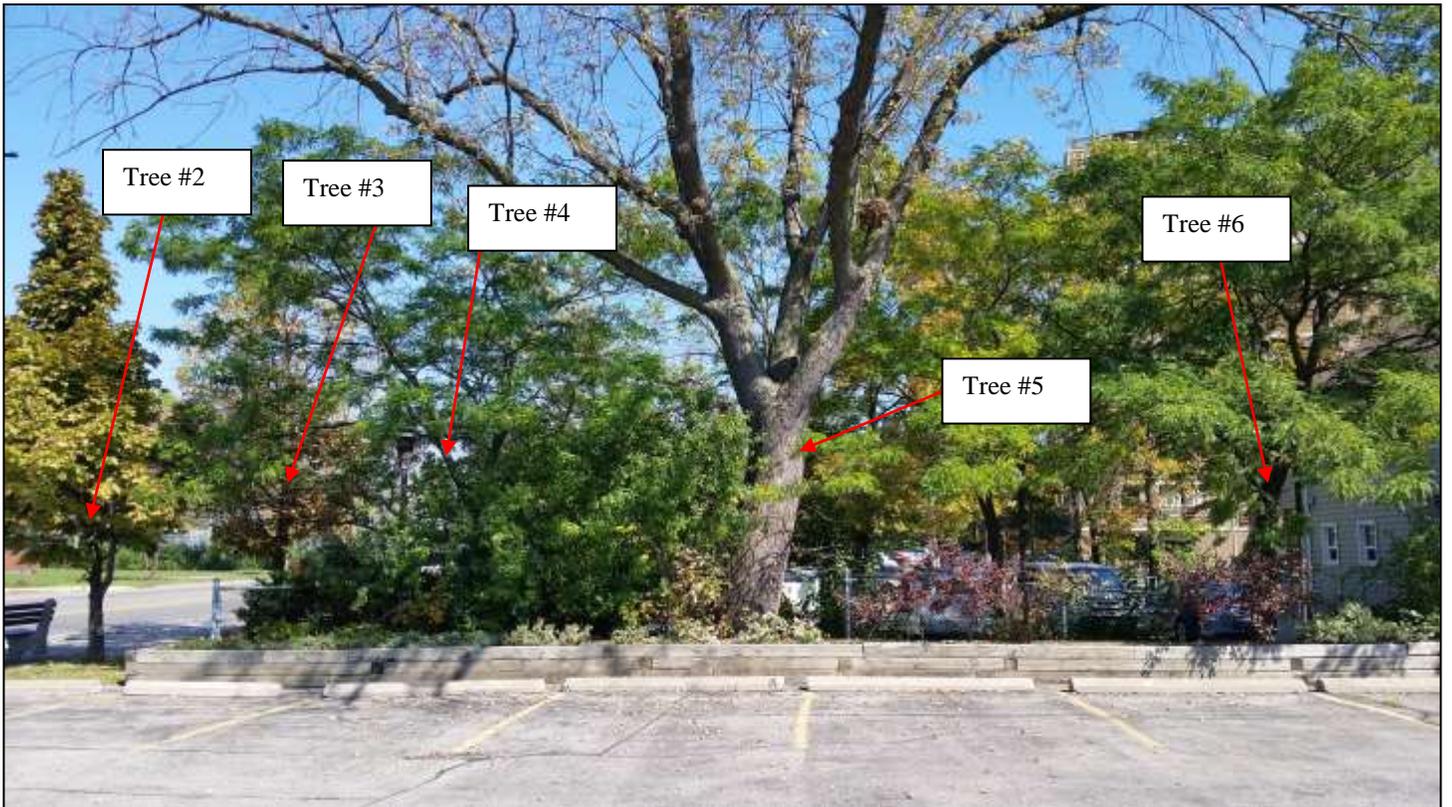
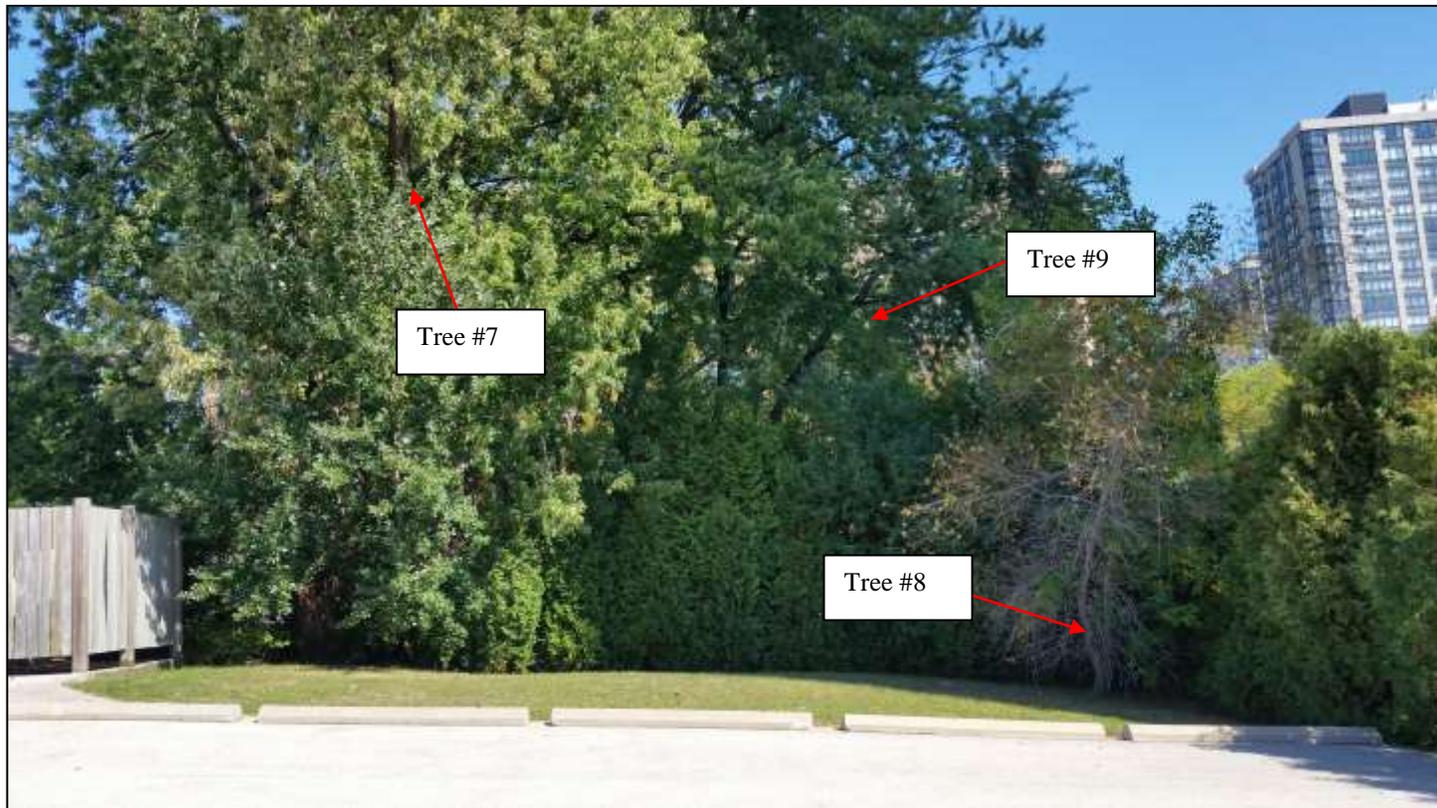


Photo 3: Trees #7 - 9.



Photos 4 and 5: (Left) Alternate angle of tree #9. (Right) Tree #5, showing severe decline in the canopy.

