

TREE CONSERVATION REPORT

FOR PROPOSED 2710 DRAPER AVENUE RESIDENTIAL DEVELOPMENT (FRESH TOWNS)

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May 2017
Nov. 13/17 AMENDMENT 2

INTRODUCTION

Pursuant to Section 4.7.2 of the City of Ottawa's Official Plan, this Tree Conservation Report has been prepared in support of a Site Plan Control Application for the proposed residential development Town Homes, including interior private streets and Park, located north of existing Building E and previously approved Building F, situated on the north side of Baseline Road and bounded by Morrison Drive on the west and Draper Avenue to the north.

EXISTING TREE INVENTORY

An inventory of existing vegetation, subject to this application, was conducted on May 4, 2017.

Refer to **Tree Conservation Plan –TCP-1** attached to this report

The schedule listed below is a list of trees identified and evaluated on the subject property at time of inventory

EXISTING TREE INVENTORY SCHEDULE:

| CODE (REFERENCE) | SPECIES | SIZE (cm) dbh –approx | VISUAL / CONDITION / REMARKS |
|---------------------|-----------|--------------------------|------------------------------|
| 30 | Tree cut | - | |
| 31 | Tree cut | - | |
| 32 | Spruce | 65 | Good / Conflict / remove |
| 33 | Tree cut | - | |
| 34 | Maple | 80 | Fair / Conflict / remove |
| 35 | Tree cut | - | |
| 36 | Tree cut | - | |
| 37 | Spruce | 40 | Good / Conflict / remove |
| 38 | Maple | 50 | Good / Conflict / remove |
| 39 | Tree cut | - | |
| 40 | Pine | 35 | Good / Conflict / remove |
| 41 | Crabapple | 25 | Good / Conflict / remove |
| 42 | Maple | 60 | Good / Conflict / remove |
| 43 | Tree cut | - | |
| 44 | Pine | 50 | Good / Conflict / remove |
| 45 | Pine | 50 | Good / Conflict / remove |
| 46 | Tree cut | - | |
| 47 | Maple | 70 | Good / Conflict / remove |
| 48A | Pine | 38 | Good / Conflict / remove |
| 48B | Pine | 35 | Good / Conflict / remove |
| 49 | Pine | 35 | Good / Conflict / remove |
| 50 | Tree cut | - | |
| 51 | Pine | 50 | Good / Conflict / remove |
| 52 | Pine | 50 | Good / Conflict / remove |

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| | | | |
|----|----------|----|--|
| 53 | Tree cut | - | |
| 54 | Pine | 60 | Good / Conflict / remove |
| 55 | Tree cut | - | |
| 56 | Tree cut | - | |
| 57 | Pine | 40 | Good / Conflict / remove |
| 58 | Pine | 40 | Good / Conflict / remove |
| 59 | Pine | 40 | Good / Conflict / remove |
| 60 | Maple | 45 | Good / Conflict / remove |
| 61 | Tree cut | - | |
| 62 | Maple | 70 | Good / Conflict / remove |
| 63 | Maple | 65 | Good / Conflict / remove |
| 64 | Pine | 40 | Good / Conflict / remove |
| 65 | Tree cut | - | |
| 66 | Tree cut | - | |
| 67 | Pine | 40 | Good / Conflict / remove |
| 68 | Tree cut | - | |
| 69 | Pine | 40 | Good / Conflict / remove |
| 70 | Tree cut | - | |
| 71 | Maple | 40 | Good / Protect / Preserve / located on adjacent property |
| 72 | Spruce | 25 | Good / Protect / Preserve / located on adjacent property |
| 73 | Tree cut | - | |
| 74 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 75 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 76 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 77 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 78 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 79 | Tree cut | - | |
| 80 | Sumac | - | Good / Protect / Preserve / located on adjacent property |
| 81 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 82 | Spruce | 10 | Good / Protect / Preserve / located on adjacent property |
| 83 | Tree cut | - | |
| 84 | Spruce | 10 | Good / Protect / Preserve / located on adjacent property |
| 85 | Spruce | 20 | Dead / located on adjacent property |
| 86 | Spruce | 20 | Good / Protect / Preserve / located on adjacent property |
| 87 | Pine | 30 | Good / Protect / Preserve / located on adjacent property |
| 88 | Pine | 30 | Good / Protect / Preserve / located on adjacent property |

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DEFINITIONS

The **Critical Root Zone (CRZ)** is established as being 10 centimetres from the trunk of the tree for every centimetre of trunk DBH.

The **CRZ** is calculated as **dbh x 10cm**

(dbh) diameter at breast height means the measurement of a trunk of a tree at a height of **120cm** above grade for trees of 15cm diameter or greater and at a height of **30cm** above grade for trees of less than 15cm diameter.

TREE SPECIES AT RISK

No tree species at risk or tree species listed as endangered, under the Province of Ontario's Endangered Species Act (ESA), were found or identified on the subject development site or within 25m of development.

EXISTING VEGETATION IN THE PROPOSED LANDSCAPE

Due to proposed construction of buildings, site servicing and grading operations on the site, all of the existing trees will be removed. Trees on adjacent properties will be protected and preserved. (Refer to Mitigative Measures)

Trees located off-site, along Draper Avenue and Morrison Drive, are tentative for removal due to construction / grading operations.

The landscape proposal will see a generous planting of deciduous and coniferous trees, shrubs and groundcovers to complement the site design and compensate for the loss of the existing vegetation due to the prospective development.

MITIGATIVE MEASURES

Measures intended to mitigate long term damage to trees following construction generally require preserving current site characteristics, particularly below ground.

The following measures are recommended to promote survival for trees to be retained:

Tree Protection Barrier:

Barriers for tree protection shall be installed adjacent to the trees to be protected. At a minimum, this barrier should be placed at a distance equal to the furthest spread of outside branches (the "dripline") or the CRZ, whichever is greater. All of the supports and bracing for the barrier shall be placed outside of the protected area and installed to minimize root damage. Furthermore, while the desired effect of the barrier is to prevent construction traffic from entering the protected area, it shall be kept in place until all construction has been completed. The barrier shall also have signage attached to it indicating its purpose as a protection barrier. Repair, fuelling of machinery, storage and stockpiling of materials, shall not take place within this protected area.

Tree Protection Barrier material options:

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- 1.2m height min. solid plywood hoarding mounted securely on durable wood posts; posts to be max. 2.4m c/c; (to be approved City of Ottawa).
- 1.2m height min. chain-link fence with tubular steel support posts or "T" posts; posts to be max. 2.4m c/c; (to be approved City of Ottawa).
- 1.2m height min. plastic (polyethylene) "international orange" web fencing securely mounted on sturdy wood framework that includes top and bottom rail; posts to be max. 2.4m c/c; (to be approved City of Ottawa).
- Other methods and material approved by City of Ottawa.

In addition:

- Do not place any material or equipment within the CRZ of the tree;
- Do not attach any signs, notices or posters to any tree;
- Do not raise or lower the existing grade within the CRZ without approval;
- Tunnel or bore when digging within the CRZ of a tree;
- Do not damage the root system, trunk or branches of any tree;
- Ensure that exhaust fumes from all equipment are NOT directed towards any tree's Canopy.

Surface Treatment:

A protective root buffer is required for a minimum distance of 2.0 metres outside of the tree protection barrier. This buffer will consist of woodchips spread to a thickness of 10 cm covered by a layer of granular 'A' (gravel) deep enough to stabilize 2 cm thick plywood. This will help prevent the compaction of soil surrounding the trees' fine feeding roots.

Excavation & Root Pruning:

Excavation shall not take place within the CRZ. Instead, directional micro-tunnelling and boring shall be employed. When excavation must take place outside of the CRZ, a trench shall be carefully dug either by hand or with hydraulic or pneumatic air excavation technology. After the trench is established, a backhoe or other equipment stationed outside of the CRZ may be used to complete the work. If roots are encountered while trenching outside the CRZ, they shall be cleanly cut with either pruning shears or a saw wiped with alcohol before each cut.

Treatment of Exposed Roots:

If tree roots are exposed during construction, they shall be reburied immediately with soil or covered temporarily with burlap, filter cloth or woodchips and kept moist (i.e. watering with a soft-spray nozzle at least three times a week). A covering of plastic shall be used to facilitate moisture retention during an extended period when watering may not be possible (i.e. over weekends).

Fertilization:

Fertilizing the trees with a liquid, deep root, slow release fertilizer is recommended only after the completion of all construction.

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Retaining Walls/ Tree Wells:

Avoid changes in grade close to trees to be retained. Where grade changes cannot be avoided, the installation of retaining walls or tree wells shall be considered for tree preservation.

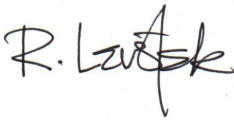
WILDLIFE PROTOCOL

No clearing of vegetation shall occur between April 15 and August 15, unless a qualified wildlife biologist has determined that no bird nesting is occurring within 5 days prior to clearing. If active nests are encountered mitigative measures shall be implemented conforming to the guidance outlined in City of Ottawa Protocol for Wildlife Protection During Construction.

We trust the aforementioned and attachment(s) satisfy the guidelines for the City of Ottawa's Tree Conservation Report.

Should further clarification be required regarding the contents of this Report, please do not hesitate to contact the undersigned.

Prepared by:



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Attachment:

Tree Conservation Plan – TCP-1

