

TREE CONSERVATION REPORT

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FOR PROPOSED 2781, 2791, 2797 BASELINE ROAD and 2704, 2706, 2724,
2734 DRAPER AVENUE RESIDENTIAL DEVELOPMENT
PHASE 1

August 2012

AMENDED-October 31, 2012

AMENDMENT 2- Sept. 30 , 2014

AMENDMENT No. 2

The scope of this amendment, dated Sept. 30, 2014 includes the revision of **Phase 1** boundary limit and the inventory of four (4) existing trees within the **revised limit** (tree #'s 31, 33, 35 and 36) and one (1) tree # 22 within the existing Phase 1 limit.

The request for amendment is to permit the cutting and removal of the trees listed to allow for the excavation and installation of sanitary and storm sewer connections from Building E. along Morrison Drive to Draper Avenue.

Trees 33 and 35 are infected with the Emerald Ash Borer (EAB) and are dying.

Trees 22, 31 and 36 are in good condition but are in conflict with construction operations.

This amendment requests for a cutting permit to remove the specified trees listed above.

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 **Phase 1** residential development located 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 on the subject site was initially conducted in late 2009 and updated in August 2012.

Presently, there are seven existing (7) townhouse units with at grade parking on the subject property. Some of the existing trees appear to be over 50 years old and therefore, most likely planted as part of the landscape development of the site during the 1960's. There are no 'natural' stands of trees and no known environmentally sensitive areas on the site.

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 recent inventory (Aug. 2012):

EXISTING TREE INVENTORY SCHEDULE:

Tree (Code) highlighted are identified for removal.

CODE (REFERENCE)	SPECIES	SIZE (cm) dbh –approx	VISUAL / CONDITION / REMARKS
1	Linden	30	Good / Retain
2	Ash	40	Good / Conflict / remove
3	Ash	60	Good / Retain
4	Maple	50	Poor / sparse canopy / Conflict / remove

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5	Pine	45	Good / Conflict / remove
6	Pine	45	Good / Conflict / remove
7	Pine	5	Good / Conflict / remove
8	Ash	50	Good / Conflict / remove
9	Ash	75	Good / Conflict / remove
10	Maple	45	Fair / trunk decay / Conflict / remove
11	Pine	50	Good / Conflict / remove
12	Pine	45	Good / Conflict / remove
13	Spruce	35	Good / Retain
14	Pine	45	Good / Conflict / remove
15	Pine	45	Good / Conflict / remove
16	Ash	65	Good / Conflict / remove
17	Ash	65	Good / Conflict / remove
18	Pine	35	Poor / top canopy heavily pruned under Hydro wires / remove
19	Pine	35	Poor / top canopy heavily pruned under Hydro wires / remove
20	Ash	40	Poor / top canopy heavily pruned under Hydro wires / remove
21	Ash	65	Good / Conflict / remove
22	Spruce	45	Good / Retain
23	Spruce	45	Good / Conflict / remove
24	Pine	40	Good / Conflict / remove
25	Pine	40	Good / Conflict / remove
26	Pine	40	Good / Conflict / remove
27	Ash	50	Good / Conflict / remove
28	Pine	30	Good / Conflict / remove
29	Pine	40	
30	Ash	75	Fair / Conflict / remove
31	Spruce	35	Good / Conflict / remove
32	Spruce	65	Good / Retain
33	Ash	55	very poor, EAB infection / remove
34	Maple	80	N/A
35	Ash	85	very poor, EAB infection / remove
36	Spruce	40	Good / Conflict / remove
37	Spruce	40	N/A
38	Maple	50	N/A
39	Tree cut	-	N/A
40	Pine	35	N/A
41	Crabapple	25	N/A
42	Maple	60	N/A
43	Maple	50	N/A
44	Pine	50	N/A
45	Pine	50	N/A
46	Ash	80	N/A
47	Maple	70	N/A
48A	Pine	38	Good / Conflict / remove
48B	Pine	35	Good / Conflict / remove

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49	Pine	35	Good / Conflict / remove
50	Ash	60	Good / Retain
51	Pine	50	N/A
52	Pine	50	N/A
53	Ash	50	N/A
54	Pine	60	N/A
55	Tree cut	-	N/A
56	Tree cut	-	N/A
57	Pine	40	N/A
58	Pine	40	N/A
59	Pine	40	N/A
60	Maple	45	N/A
61	Ash	60	N/A
62	Maple	70	N/A
63	Maple	65	N/A
64	Pine	40	N/A
65	Maple	45	N/A
66	Pine	25	N/A
67	Pine	40	N/A
68	Ash	50	N/A
69	Pine	40	N/A
70	Ash	40	Good / Protect / Preserve / located on adjacent property
71	Maple	40	Good / Protect / Preserve / located on adjacent property
72	Spruce	25	Good / Protect / Preserve / located on adjacent property
73	Ash	60	Good / Protect / Preserve / located on adjacent property
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	Ash	50	Good / Protect / Preserve / located on adjacent property
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	Ash	75	Good / Protect / Preserve / located on adjacent property
84	Spruce	10	Good / Protect / Preserve / located on adjacent property

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85	Spruce	20	Good / Protect / Preserve / located on adjacent property
86	Spruce	20	Good / Protect / Preserve / located on adjacent property
87	Pine	30	Good / Protect / Preserve / located on adjacent property
	Pine	30	Good / Protect / Preserve / located on adjacent property
89	Ash	50	Good / Protect / Preserve / located on adjacent property

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.

DISTINCTIVE TREES & TREE SPECIES AT RISK

Under the Urban Tree Conservation By-law, a 'distinctive tree' is defined as any tree with a dbh of 50cm or greater.

There are a total of thirty (30) 'distinctive trees' on subject property. Nine (9) of these are to be removed due to conflict of Phase 1 development; Of these, one (1) Maple and one(1) Ash are evaluated as 'poor' and 'fair', respectively. Six (6) are Ash trees.

The future projection is that the Ash trees in the Ottawa area may eventually succumb to EAB within the next 5 years.

No tree species at risk were found or identified on the subject or nearby adjacent property.

EXISTING VEGETATION IN THE PROPOSED LANDSCAPE

Phase 1 of the new development has been designed to retain existing trees on the north portion of the site. Trees outside the development shall be retained and preserved in manner defined in Tree Conservation Guidelines. The 'street' trees which line Baseline Road, have been heavily top- pruned to avoid overhead wires. These will be replaced by deciduous 'canopy' trees which will make the street much more pedestrian friendly. The new proposal will also see a line of street trees along Morrison Drive where few exist now. The new inner 'court' will be landscaped with generous trees, complimenting the architectural design of the new residential development.

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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:

- 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.

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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.

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.

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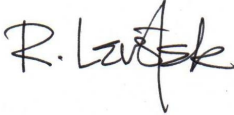
AMENDED-October 31, 2012

AMENDMENT 2- Sept. 30 , 2014

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:



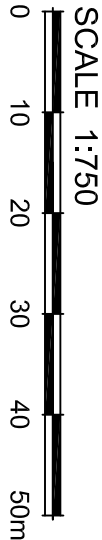
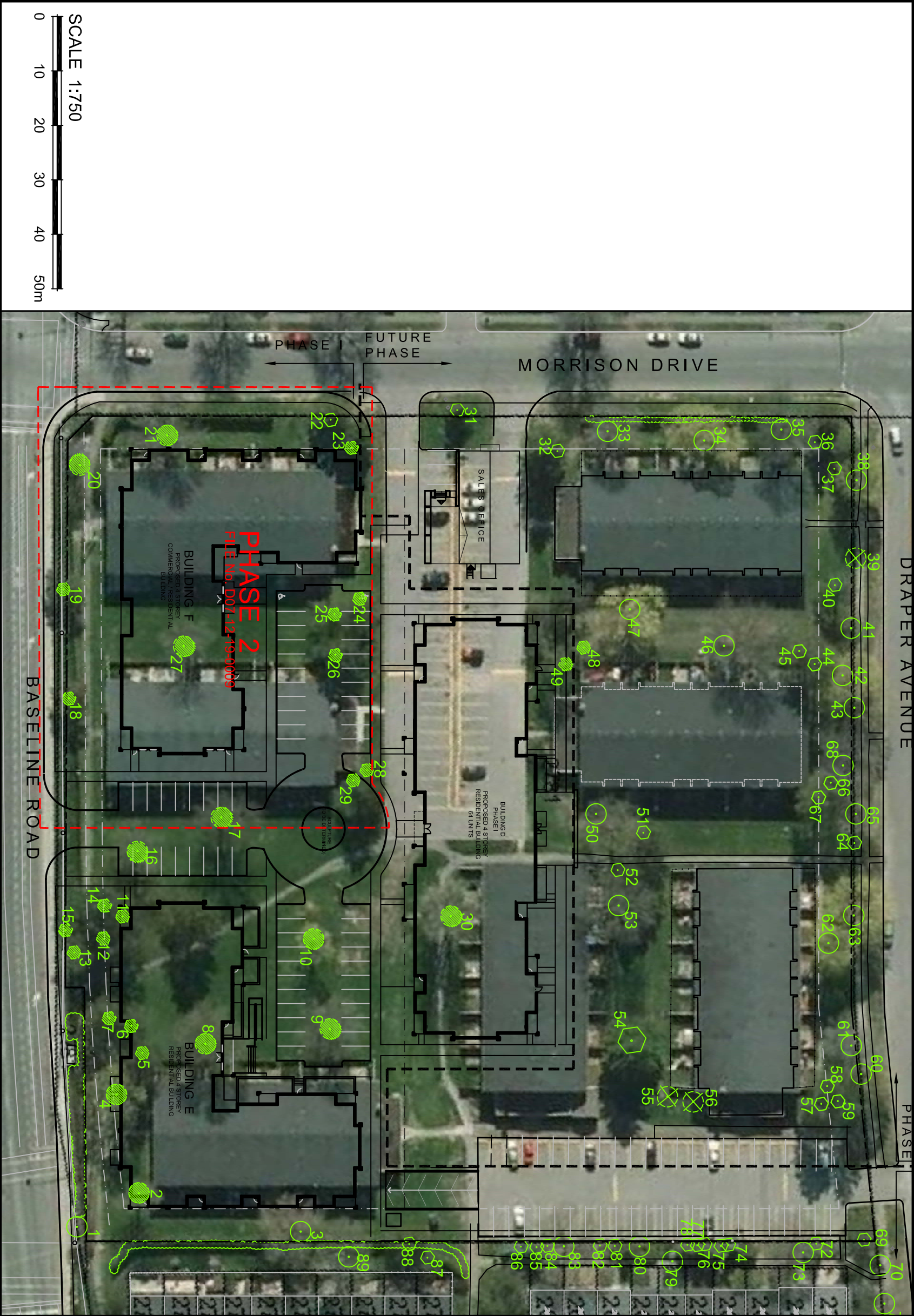
Rudy Levstek,

Levstek Consultants Inc.

5871 Hugh Crescent
Ottawa ON K0A 2W0
(613) 826-0518
rlevstek@larocquelevstek.com

Attachment:

Tree Conservation Plan – TCP-1



2.	DEC.4/19	ADD PHASE 2 LIMITS
1.	AUG. 22/12	ISSUE FOR SITE PLAN APPROVAL
no.	date	revision

LEGEND/SYMBOLS

- EX. DECIDUOUS TREE TO BE RETAINED AND PRESERVED
- EX. CONIFEROUS TREE TO BE RETAINED AND PRESERVED
- EX. VEGETATION TO BE RETAINED AND PRESERVED
- EX. DECIDUOUS TREE TO BE REMOVED
- EX. CONIFEROUS TREE TO BE REMOVED
- EX. VEGETATION TO BE REMOVED

LEVSTEK CONSULTANTS INC.
LANDSCAPE ARCHITECTS
5871 Hugh Crescent · Ottawa · Ontario · K0A 2W0
613 · 826 · 0518

Project
QUALICUM WOODS CROSSING
OTTAWA, ONTARIO

2781, 2791, 2797 BASELINE ROAD
2704, 2706, 2724, 2734 DRAPER AVENUE / PHASE 1

Drawing Title		
TREE CONSERVATION PLAN		
Drawn	MGB	Date
Scale	1:750	Project No.
		904.02
		Drawing No.
		LTC-1



File Number: D06-01-12-0145

January 2, 2013

Redwood Residences Limited
311 Richmond Road, Suite 301
Ottawa, ON K1Z 6X3

Attention Redwood Residences;

Re: Tree Permit for 2781, 2791, & 2792 Baseline Road issued in accordance with Urban Tree Conservation By-law No. 2009-200

This letter confirms receipt of the Tree Conservation Report prepared by Laroque Levstek Consulting Services. Permission is hereby granted to remove the trees identified in the above-noted report for Phase I. This permission is granted subject to the following conditions:

a) A minimum of one replacement tree is planted for every tree removed. Where possible, these replacement trees shall be native to the Ottawa area, sourced from nurseries growing seed-zone appropriate planting stock, and appropriate to the site conditions as recommended by a qualified arborist.

b) The following protection measures must 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 construction on site:

- Under the guidance of an arborist, erect a fence at the critical root zone (CRZ) of trees where the CRZ is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk diameter at breast height. The CRZ is calculated as DBH X 10 cm.;
- 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 or any tree;
- Ensure that exhaust fumes from all equipment are NOT directed towards any tree canopy.

c) No clearing of vegetation shall occur between April 15 and July 31, unless a qualified biologist has determined that no bird nesting is occurring within 5 days prior to the clearing. A pre-clearing survey for active stick nests and cavity nests shall also be conducted between April 1 and April 15, in order to identify and protect early-nesting owls and raptors.

d) Compliance with the Ministerial Order issued by the Canadian Food Inspection Agency prohibiting the movement of any ash material and firewood of all species of ash trees from the Ottawa area. Those ash trees which are removed from the above-noted address must be disposed of in accordance with the City of Ottawa Guidelines attached hereto and which can also be found on the following website:

http://www.ottawa.ca/en/env_water/tlg/trees/preservation/eab/index.html

Unless otherwise specified, this permit does not authorize the harm or removal of trees located on either City-owned land or adjacent properties. In addition, this permit does not relieve the owner, applicant and/or permit holder from any responsibility to comply with all applicable provincial or federal legislation.

Please note that any personal information required for this permit is collected under the authority of Section 135 of the Municipal Act, 2001, S.O. 2001, c. 25, as amended and will be used for the administration and enforcement of the City's Urban Tree Conservation By-law No. 2009-200, as amended.

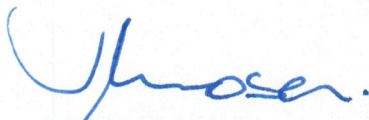
If you have any questions regarding this permission, please contact Eric Thompson R.P.F, in the Planning and Growth Management Department at 613-580-2424, ext. 17922.

In signing this letter in duplicate you agree to the following:

- (a) to comply with the above noted conditions;
- (b) to indemnify and save harmless the City from any claims, demands and causes of action arising out of or incurred by reason of the issuance of permit or the tree removal, and;
- (c) that the removal of the above-noted trees in this permit is done at the owner's risk and the City of Ottawa assumes no responsibility for the removal or any residual effects of the removal.

Please sign both copies of the letter and retain a copy for yourself and mail the other copy back to the City at the address located at the bottom of this page.

Regards,



John L. Moser
General Manager
Planning and Growth Management Department

Attach. 1

City Of Ottawa
Planning and Growth Management Department
110 Laurier Avenue
Ottawa, ON K1P 1J1
Tel. : 613-580-2424 ex. 17922
Fax: 613-580-2459
eric.thompson@ottawa.ca
www.Ottawa.ca

Ville d'Ottawa
Service de l'urbanisme et de la gestion de la croissance
110, avenue Laurier ouest
Ottawa (ON) K1P 1J1
Tél. : 613-580-2424 poste: 17922
Télécopieur: 613-580-2459
eric.thompson@ottawa.ca
www.Ottawa.ca

Property Address where tree removal will occur: 2781, 2791, & 2792 Baseline Road

Name of Owner/Property Manager: Redwood Residence Limited

Date: JAN. 15 / 2013

Print: SAMUEL GROSZ

Signature:



Witness:

NATAN ARY



NOTE: THIS PERMIT MUST BE AVAILABLE ON-SITE DURING TREE REMOVAL, GRADING, CONSTRUCTION, AND ANY OTHER SITE ALTERATION ACTIVITIES