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Urban Forestry & Forest Management Consulting

May 30, 2013

Doug Fountain
F.D. Fountain Landscape Architecture
1735 Courtwood Crescent, Suite 3
Ottawa, ON
K2C 3J2

Re: Tree Conservation Report – 192, 196 Bronson Ave. & 31 Cambridge St., Ottawa

Dear Doug,

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted properties in Ottawa. The need for this TCR is related to the future re-development of the site. Such reports are required for all Plans of Subdivision and Site Plan Control Applications where there is a tree of 10 centimetres in diameter or greater on the site. The approval of this TCR by the City of Ottawa constitutes the permit to remove the approved trees.

The inventory in this report details the assessment of both individual and groupings of trees impacted by the proposed construction. Importantly, no endangered or other significant tree species were found on the site. All trees on the property are to be removed due to the proposed construction of a multi-storey building and associated underground parking. Trees located on adjacent private and City properties can be retained as they are out of the way of construction. However it is anticipated these trees will suffer varying degrees of root loss considering the depth and extent of excavation required for the proposed underground parking. Because of this it is recommended the structural integrity of these trees be closely inspected during excavation.

Several of the Norway maples are possible candidates for transplanting. However, being a recognized invasive species moving them to other properties may not be environmentally responsible. Lastly, in terms of the species and location of trees to be planted on the site please refer to the landscape plan prepared by F.D. Fountain Landscape Architecture.

TREE SPECIES, SIZE, CONDITION AND STATUS

Table 1 below details the species, size, condition and status of each impacted tree:

Tree No.	Tree Species	Condition (VP→E)	D.B.H (cm)	Tree Condition Notes & Status (to be removed, or retained)
1	Manitoba maple (<i>Acer negundo</i>)	Very poor	26	Co-dominant stem previously removed; decay throughout remaining stem - tree is hazardous; to be removed



Table 1. Continued

Tree No.	Tree Species	Condition (VP→E)	D.B.H (cm)	Tree Condition Notes & Status (to be removed, or retained)
2	Manitoba maple	Poor	24	Cavity with decay @ 0.6m from grade; to be removed
3	Manitoba maple	Fair/Poor	28/25	Co-dominant stems @ 0.4m; to be removed
4	Manitoba maple	Very poor	28	Almost completely dead-only one secondary stem with viable buds; to be removed
5	Manitoba maple	Fair	27	Growing on moderate angle; shading tree #8; to be removed
6	Manitoba maple	Poor	33	Growing on heavy angle over road; pruned by Hydro; to be removed
7	Manitoba maple	Fair	34	Co-dominant stems @ 1.8m; heavily pruned by Hydro; to be removed
8	Norway maple (<i>Acer platanoides</i>)	Fair	9	Juvenile tree; shaded by tree #5-crown mildly asymmetrical; transplanting candidate; to be removed/transplanted
9	Norway maple	Good	7	Juvenile tree; transplanting candidate; to be removed/transplanted
10	Norway maple	Good	16	Maturing tree; transplanting candidate; to be removed/transplanted
11	Norway maple	Good	13	Maturing tree; transplanting candidate; to be removed/transplanted
12	Norway maple	Good	11	Juvenile tree; transplanting candidate; to be removed/transplanted
13	Norway maple	Good	11	Juvenile tree; transplanting candidate; to be removed/transplanted
14	Norway maple	Good	11	Juvenile tree; transplanting candidate; to be removed/transplanted
15	Norway maple	Poor	24	On City property; heavily pruned by Hydro; to be removed
16	Norway maple	Fair	10	Juvenile tree; main stem vandalized (mechanically girdled); not a candidate for transplanting/ to be removed
17	Norway maple	Poor	22	On City property; heavily pruned by Hydro; to be removed
18	Norway maple	Poor	9	Juvenile tree; main stem vandalized (mechanically girdled); not a candidate for transplanting/ to be removed
19	Norway maple	Poor	19	On City property; heavily pruned by Hydro; to be removed

Table 1. Continued

Tree No.	Tree Species	Condition (VP→E)	D.B.H (cm)	Tree Condition Notes & Status (to be removed, or retained)
20	Norway maple	Very poor	10	Juvenile tree; main stem vandalized (mechanically girdled); not a candidate for transplanting/ to be removed
21	White Cedar (<i>Thuja occidentalis</i>)	Fair	5 avg.	Maturing hedge; unmaintained but in generally good condition; seeded Manitoba maple and Siberian elm saplings competing for sunlight/ to be removed
22	Siberian elm (<i>Ulmus pumila</i>)	Good	25	On neighbouring private property; maturing tree; generally good growth form; invasive, undesirable species/ to be retained
23	Crab apple (<i>Malus</i> spp.)	Poor	33	Over-mature tree; major deadwood in crown-in advanced decline; trees #23-26 all with lilac underneath/ to be removed
24	Ash (<i>Fraxinus</i> spp.)	Fair	18	Early signs of Emerald ash borer (<i>Agrilus planipennis</i>) infestation-will soon be dead/ to be removed
25	Little-leaf linden (<i>Tilia cordata</i>)	Good	20	Typical tear-drop growth form-will benefit from loss of adjacent ash/ to be removed
26	Ash	Fair	16	Early signs of Emerald ash borer (<i>Agrilus planipennis</i>) infestation-will soon be dead/ to be removed
27	Siberian elm	Fair	41	Mature tree; growing on mild angle; slime flux apparent in mid-crown; trees #27-31 each an invasive, undesirable species with chokecherry underneath/ to be removed
28	Siberian elm	Fair	40	Mature tree; growing on moderate angle due to intercompetition for sunlight/ to be removed
29	Siberian elm	Fair	31	On neighbouring private property; mature tree; growing on mild angle; slime flux apparent in mid-crown/ to be retained
30	Siberian elm	Fair	53	On neighbouring private property; mature tree; growing on mild angle/ to be retained
31	Siberian elm	Fair	59	On neighbouring private property; mature tree; growing on moderate angle due to intercompetition for light/ to be retained

Table 1. Continued

Tree No.	Tree Species	Condition (VP→E)	D.B.H (cm)	Tree Condition Notes & Status (to be removed, or retained)
32	Manitoba maple	Poor	14 avg.	On neighbouring private property; five-stemmed from grade-all divergent; trees #32 & 33 with Siberian pea-shrub underneath/ to be retained
33	Manitoba maple	Fair	23	On neighbouring private property; growing on mild lean/ to be retained
34	Norway maple	Good	24	Fair vigour and growth increment/ to be removed
35	Norway maple	Fair	23	Very restricted rooting area-low vigour, poor growth increment/ to be removed
36	Siberian elm	Fair	42	Crown asymmetrical due to proximity of building; invasive, undesirable species/ to be removed

Pictures 1 through 5 on pages 5 through 8 show selected trees on the property.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied to the trees on neighbouring private and City property. The following measures are required by the City of Ottawa to ensure tree survival during construction:

1. Erect a fence at the critical root zone (CRZ¹) of trees;
2. Do not place any material or equipment within the CRZ of the tree;
3. Do not attach any signs, notices or posters to any tree;
4. Do not raise or lower the existing grade within the CRZ without approval;
5. Tunnel or bore when digging within the CRZ of a tree;
6. Do not damage the root system, trunk or branches of any tree;
7. Ensure that exhaust fumes from all equipment are NOT directed towards any tree's canopy.

¹ The critical root zone (CRZ) is established as being 10 centimetres from the trunk of a tree for every centimetre of trunk Diameter at breast height (DBH). The CRZ is calculated as DBH x 10 cm.

Please do not hesitate to contact me if you have any questions concerning this Tree Conservation Report.

Yours,

Andrew Boyd

Andrew K. Boyd, B.Sc.F., R.P.F.
Consulting Urban Forester





Picture 1. Trees #1 through 4 on subject properties.



Picture 2. Trees #12, 13 and 14 on subject properties.



Picture 3. Trees #20, 21 and 22 on subject properties.



Picture 4. Trees #27 through 31 on subject properties.



Picture 5. Tree #36 on subject properties.