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URBAN FORESTRY & FOREST MANAGEMENT CONSULTING

June 19, 2019

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RE: TREE CONSERVATION REPORT FOR 3490 INNES ROAD, OTTAWA

This report details a pre-construction Tree Conservation Report (TCR) for the above-noted property in Ottawa. The need for this TCR is related to the proposed development of the subject property. Such reports are required for all Plans of Subdivision and Site Plan Control Applications where a tree of 10 centimetres in diameter or greater is present on the property. The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorize the removal of approved trees. No tree removal should occur before such a permit is issued.

The inventory in this report details the assessment of all individual trees on the subject property and those shared with neighbouring private property. No trees are present on adjacent City of Ottawa property. Field work for this report was completed on May 19 and 27, 2019.

The construction proposed for the site includes eight multi-storey apartment buildings with underground parking. The foot print of the buildings in addition to the excavation necessary for the underground parking will result in the removal of all trees currently on the subject property with the exception of those located in close proximity to the eastern property line. All trees on adjacent private property will be retained. The tree preservation and protection measures cited in this report will be followed to ensure the survival of trees proposed for retention.

TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 below details the species, condition, size (diameter) and status of individual and groups of trees on the subject and nearby private property. Each of these is referenced by the numbers plotted on the accompanying tree conservation plan.

Table 1. Species, condition, diameter, ownership and status of trees at 3490 Innes Road.

Tree No.	Tree Species	Condition (VP→E)	DBH[1] (cm)	Owner -ship	Age Class, Tree Condition Notes & **Preservation Status** (to be removed or preserved and protected)
1	White elm *(Ulmus americana)*	Good	25 avg.	Private	Mature; five-stemmed from grade; broad, open grown crown; native species; no outward signs of Dutch elm disease *(Ophiostoma novo-ulmi)*; **to be removed**

2	Crab apple *(Malus spp.)*	Poor	34	Private	Overmature; second stem previously removed from north side; cavity with advanced decay in remaining stem; cultivar; **to be removed**
3	Manitoba maple *(Acer negundo)*	Fair	36 avg.	Private	Mature; double-stemmed from grade; third stem previously removed; crown divergent and asymmetrical towards south; naturalized species; **to be removed**
4	Manitoba maple	Fair	41	Private	Mature; upright form with co-dominant leaders at 4.5m; lateral stem removed from east side at 1m; **to be removed**
5	Manitoba maple	Fair	47	Private	Mature; upright form with major wound in main stem 1.5-4m on south side; lateral stem removed from east side at 1m; **to be removed**
6	White cedar *(Thuja occidentalis)*	Good	12 avg.	Private	Maturing; two clusters – one with 7 stems, one with 11 stems; good crown density and needle colour; native species; **to be removed**
7	Manitoba maple	Poor	62	Private	Mature; divergent towards northwest; **to be removed**
8	White elm	Dead	44 avg.	Private	Mature; double-stemmed from grade; hazardous; **to be removed**
9	Manitoba maple	Poor	21 avg.	Private	Mature; double-stemmed at 0.5m; divergent towards west; **to be removed**
10	Manitoba maple	Poor	25 avg.	Private	Mature; double-stemmed from grade, third stem previously removed; co-dominant leaders at 3m; divergent towards west; **to be removed**
11	Mixedwood grouping	Poor-fair	10-43	Private	Mature to overmature; primarily naturalized species (Manitoba and Norway maple *(Acer platanoides)*); native species: white birch *(Betula papyrifera)*-23cm, sugar maple *(Acer saccharum)*-14cm avg, largetooth aspen *(Populus grandidentata)*-26cm, white elm-10 and 14cm, white spruce *(Picea glauca)*-12, 13 & 17cm; **to be removed**

Table 1. Con't

12	Crab apple	Good	19	Private	Maturing; asymmetrical towards north due to tree #13; **to be removed**
13	White spruce	Good	33	Private	Mature; good crown density, growth increment and needle colour; **to be removed**
14	Trembling aspen *(Populus tremuloides)*	Good-dead	17 & 13 avg.	Private	Maturing; one living tree (double-stemmed from grade), one dead due to hypoxylon canker *(Hypoxylon mammatum)*; native species; **to be removed**
15	White elm	Good	23 avg.	Private	Mature; double-stemmed from grade – one suppressed by the other; co-dominant leaders at 3.5m; no outward signs of Dutch elm disease; **to be preserved and protected**
16	Manitoba maple	Fair	21	Shared	Maturing; divergent towards adjacent property; **to be preserved and protected**
17	Bur oak *(Quercus macrocarpa)*	Good	34 & 14	Private	Two trees – one mature, the other maturing (and suppressed by its neighbour); upright growth form; **to be removed**
18	White elm	Good	23	Neigh-bour	Mature; upright form; co-dominant leaders at 4m; no outward signs of Dutch elm disease; **to be preserved and protected**
19	White elm	Fair	19 & 11	Private	Two trees – one mature, the other maturing; no outward signs of Dutch elm disease; **to be removed**
20	White spruce	Good	16	Private	Mature; planted; good crown density, growth increment and needle colour; **to be removed** (could be transplanted)
21	White spruce	Good	16	Private	Mature; planted; good crown density, growth increment and needle colour; **to be removed** (could be transplanted)
22	White spruce	Good	14	Private	Mature; planted; good crown density, growth increment and needle colour; **to be removed** (could be transplanted)

Table 1. Con't

23	White cedar	Fair	14	Private	Mature; planted; fair crown density, growth increment and needle colour; **to be removed** (could be transplanted)
24	White elm	Fair	17	Private	Maturing; no outward signs of Dutch elm disease; **to be preserved and protected**
25	White spruce	Fair	16	Private	Mature; planted; fair crown density, growth increment and needle colour; **to be removed** (could be transplanted)

[1]Diameter at breast height, or 1.4m from grade.

Pictures 1 through 4 on pages 5, 6 and 7 show selected trees on and adjacent to the subject property.

ENDANGERED SPECIES

No butternuts *(Juglans cinerea)* were identified on the subject or adjacent properties. This species of tree is listed as threatened under the Province of Ontario's Endangered Species Act (2007) and so is protected from harm.

TREE PRESERVATION AND PROTECTION MEASURES

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

1. Erect a fence at the critical root zone (CRZ[1]) 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 questions regarding this tree conservation report.

Yours,

Andrew Boyd

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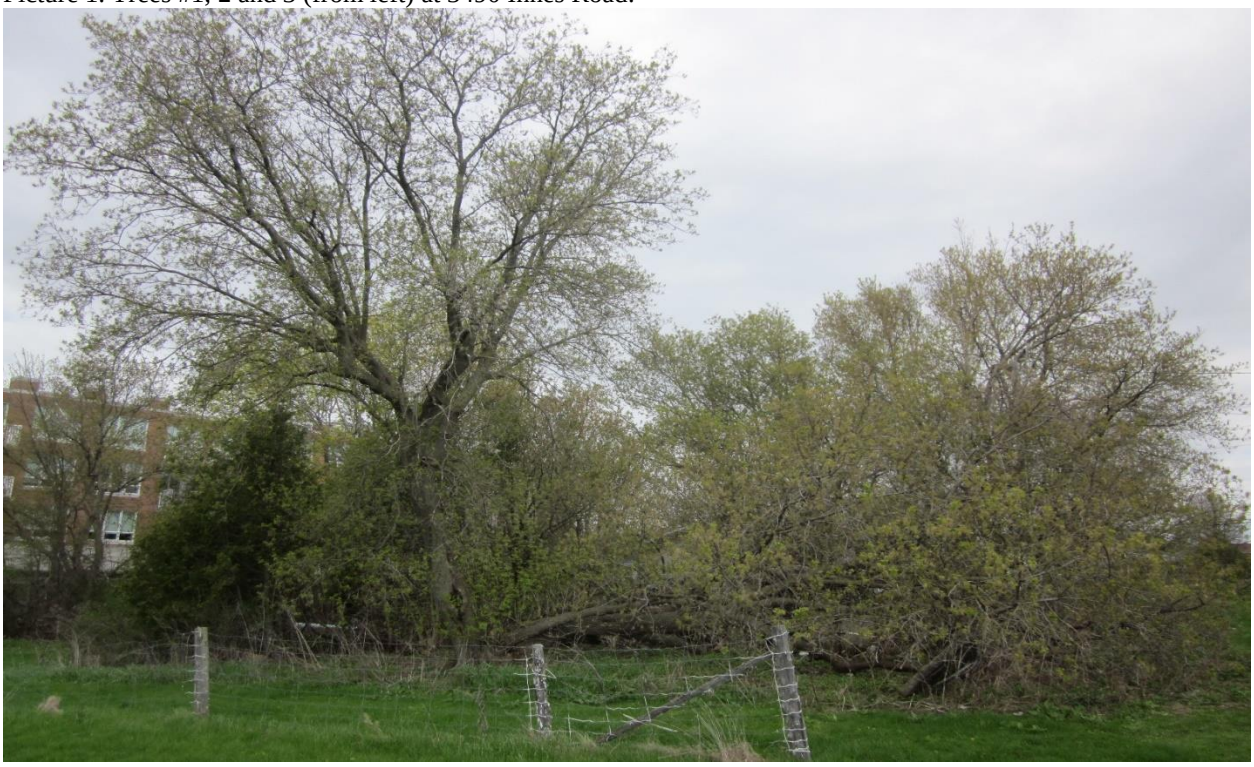
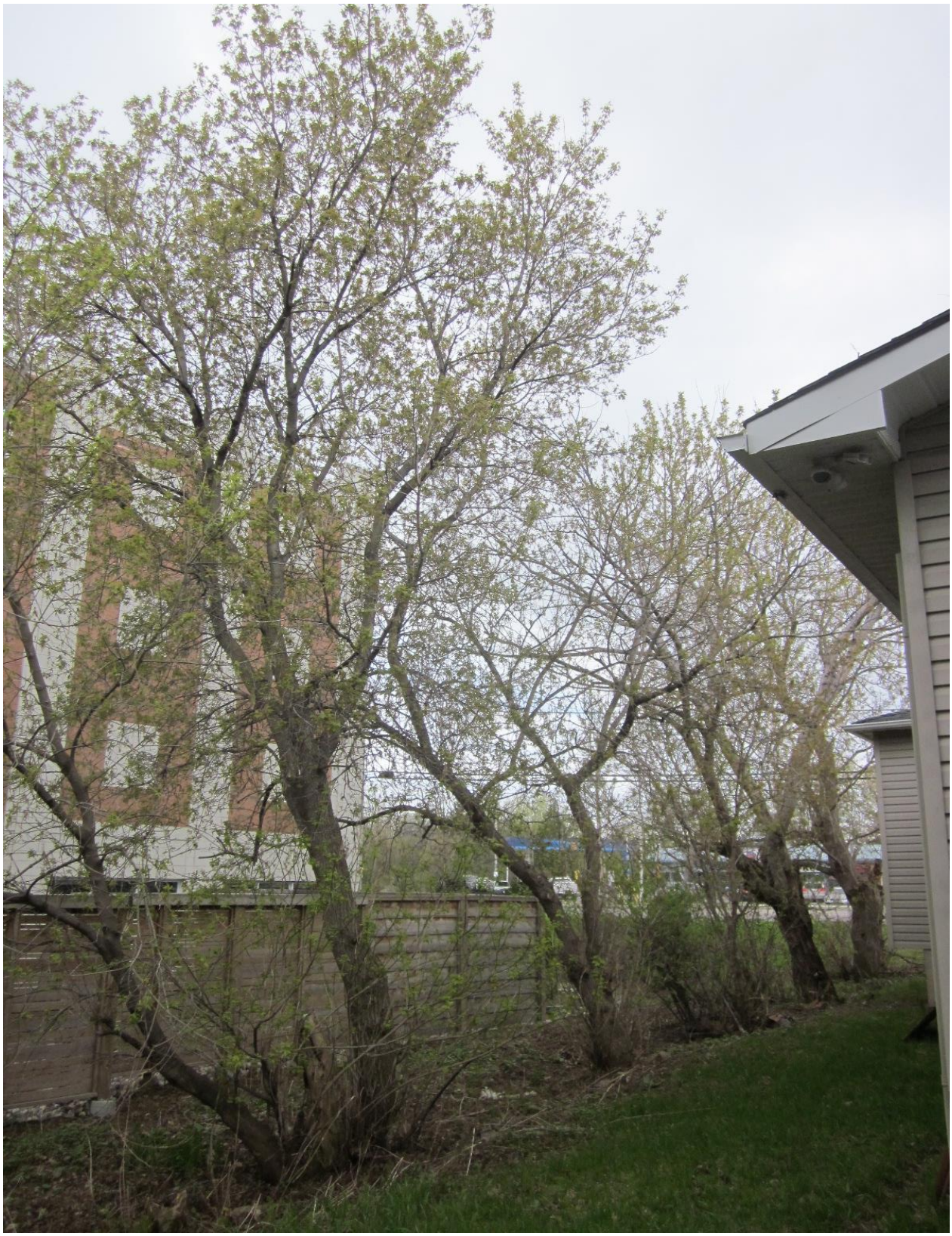
Certified Arborist #ON-0496A and TRAQualified
Consulting Urban Forester

Picture 1. Trees #1, 2 and 3 (from left) at 3490 Innes Road.



Picture 2. Wooded area #11 at 3490 Innes Road.



Picture 3. Trees #7, 8, 9 and 10 (from right) at 3490 Innes Road

Picture 4. Trees #17 and 18 (from right) at 3490 Innes Road