



May 3, 2023

Marietta Ruhland, BLA, OALA
Principal
RUHLAND & ASSOCIATES LTD.
Suite 200 - 1750 Courtwood Crescent
Ottawa, ON
K2C 2B5

RE: TREE CONSERVATION REPORT FOR 2700 SWANSEA CRESCENT, 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 addition to the front of an existing commercial building on the subject property. Trees on properties slated for development are protected under the City of Ottawa’s Tree Protection By-law (By-law no. 2020-340).

Under the Tree Protection By-law a TCR is required for all Plans of Subdivision, Site Plan Control Applications, Common Elements Condominium Applications, and Vacant Land Condominium Applications where there is a tree of 10 cm in diameter at breast height (DBH) or greater on a site and/or if there is a tree on an adjacent site that has a critical root zone (CRZ) extending onto a development site. Trees of any size on adjacent City lands must also be documented in a TCR. A “tree” is defined in the By-law as any species of woody perennial plant, including its root system, which has reached or can reach a minimum height of at least 450 cm at physiological maturity. The CRZ is calculated as DBH x 10 cm.

The approval of this TCR by the City of Ottawa and the issuing of a permit by them authorize the removal of approved trees. **Importantly, although this report may be used to support the application for a City tree removal permit, it does not by itself constitute permission to remove trees or begin site clearing activities. No such work should occur before a tree removal permit is issued by the City’s General Manager authorizing the injury or destruction of a tree in accordance with the by-law.**

The inventory in this report details the assessment of all individual trees on the subject property. One tree (tree #1) was found to be shared with nearby City of Ottawa property. Field work for this report was completed in March 2022.

TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 on pages 2 and 3 of this report details the species, condition, size (diameter) and the preservation status of the individual trees on and adjacent to the subject property. Each of these trees is referenced by the numbers plotted on the tree conservation plan included on page 5 of this report.



Table 1. Species, condition, size (diameter) and status of trees at 2700 Swansea Crescent

Tree No.	Tree species	Condition (VP→E)	DBH ¹ (cm)	Age class, tree condition notes, species origin & preservation status (to be removed or preserved and protected)
1	Hackberry (<i>Celtis occidentalis</i>)	Good	13	Maturing; good form and vigour; native species; to be preserved (shared with the City of Ottawa)
2	Colorado spruce (<i>Picea pungens</i>)	Good	10 avg.	Maturing; six trees in total; generally good form and vigour; introduced species; to be preserved
3	Hackberry (<i>Celtis occidentalis</i>)	Good	12	Maturing; good form and vigour; native species; to be preserved
4	Freeman maple (<i>Acer x. freemanii</i>)	Fair	14 & 19	Maturing; two trees in total; co-dominant leaders; very good vigour; cultivar; to be preserved
5	Freeman maple (<i>Acer x. freemanii</i>)	Poor to Fair	7, 12 & 12	Maturing; three trees in total; co-dominant leaders; poor to fair vigour; cultivar; to be preserved
6	Honey-locust (<i>Gleditsia triacanthos</i>)	Fair	8 & 12	Maturing; two trees in total; typical open crown forms; fair vigour; restricted rooting; introduced species to Eastern Ontario; both trees to be removed (conflict with construction)
7	Crab apple (<i>Malus</i> spp.)	Good	13, 14 & 15	Maturing; three trees in total; dense crown with heavy fruit set; very good vigour; basal sprouting; cultivar; all three trees to be removed (conflict with construction)
8	Honey-locust (<i>Gleditsia triacanthos</i>)	Fair	10	Maturing; typical open crown form; fair vigour; very restricted rooting; introduced species to Eastern Ontario; to be removed (conflicts with construction)
9	Crab apple (<i>Malus</i> spp.)	Good	14	Maturing; dense crown with heavy fruit set; very good vigour; basal sprouting; cultivar; to be preserved
10	Red oak (<i>Quercus rubra</i>)	Good	13 avg.	Maturing; four trees in total; good upright forms; good vigour; native species; to be preserved
11	Colorado spruce (<i>Picea pungens</i>)	Fair	10 & 10	Maturing; two trees in total; fair crown density, growth increment and needle colour; introduced species; to be preserved
12	Austrian pine (<i>Pinus nigra</i>)	Good	14 & 14	Maturing; two trees in total; good crown density, growth increment and needle colour; introduced species; to be preserved

Table 1. Con't

Tree No.	Tree species	Condition (VP→E)	DBH ¹ (cm)	Age class, tree condition notes, species origin & preservation status (to be removed or preserved and protected)
13	Colorado spruce (<i>Picea pungens</i>)	Good	10 avg.	Maturing; five trees in total; good crown density, growth increment and needle colour; introduced species; to be preserved
14	Austrian pine (<i>Pinus nigra</i>)	Fair	12	Maturing; lower stem divergent towards southeast – moved after planting; fair crown density, growth increment and needle colour; introduced species; to be preserved
15	Hackberry (<i>Celtis occidentalis</i>)	Good	15 & 16	Maturing; two trees in total; co-dominant stems at 2m from grade; broad crowns; native species; to be preserved
16	Austrian pine (<i>Pinus nigra</i>)	Good	15 avg.	Maturing; four trees in total; good crown density, growth increment and needle colour; introduced species; two of four trees to be removed (conflict with construction)
17	Hackberry (<i>Celtis occidentalis</i>)	Good	13 & 14	Maturing; two trees in total; co-dominant stems at 2m from grade; broad crowns; native species; to be preserved
18	Colorado spruce (<i>Picea pungens</i>)	Good	14 avg.	Maturing; five trees in total; fair crown density, growth increment and needle colour; introduced species; one of five trees to be removed (conflict with construction)
19	Honey-locust (<i>Gleditsia triacanthos</i>)	Fair	19	Maturing; typical open crown form; fair vigour; mildly restricted rooting; introduced species to Eastern Ontario; to be removed (conflict with construction)
20	Austrian pine (<i>Pinus nigra</i>)	Fair	15	Maturing; divergent and asymmetric towards southeast due to influence of tree #19; fair crown density, growth increment and needle colour; introduced species; to be removed (conflicts with construction)
21	Colorado spruce (<i>Picea pungens</i>)	Fair	14	Maturing; asymmetric towards southeast due to influence of trees #19 and 20; fair crown density, growth increment and needle colour; introduced species; to be preserved
22	Austrian pine (<i>Pinus nigra</i>)	Fair	15	Maturing; competing lateral at 2m on southeast; fair crown density, growth increment and needle colour; introduced species; to be preserved

¹ diameter at breast height, or 1.4m from grade (unless otherwise indicated); average diameters indicate multi-stemmed trees

Pictures 1 through 5 on pages 6, 7 and 8 of this report show selected individual trees and treed groupings on the subject property.

FEDERAL AND PROVINCIAL REGULATIONS

Federal and provincial regulations can be applicable to trees on private property. In particular, the following two regulations have been considered for this property:

- 1) Endangered Species Act (2007): 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.
- 2) Migratory Bird Convention Act (1994): In the period between April and August of each year nest surveys are required to be performed by a suitably trained person no more than five (5) days before trees or other similar nesting habitat are to be removed.

TREE PRESERVATION AND PROTECTION MEASURES

Preservation and protection measures intended to mitigate damage during construction will be applied for the trees to be retained. 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 (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 crown.

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.

This report is subject to the attached Limitations of Tree Assessments and Liability to which the reader's attention is directed.

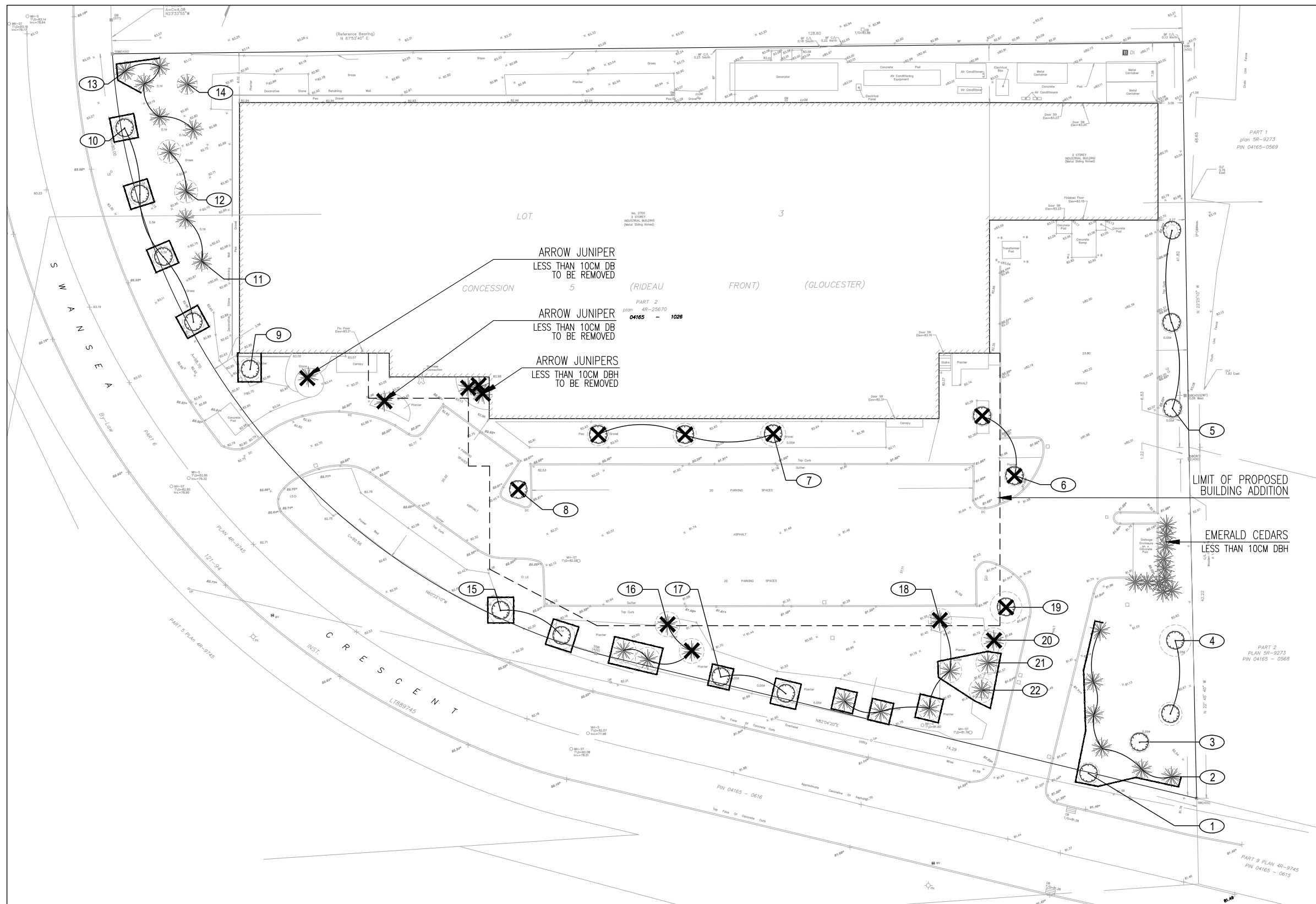
Please do not hesitate to contact the undersigned with any questions concerning this report.

Yours,



Andrew K. Boyd, B.Sc.F, R.P.F. (#1828)
Certified Arborist #ON-0496A and TRAQualified
Consulting Urban Forester

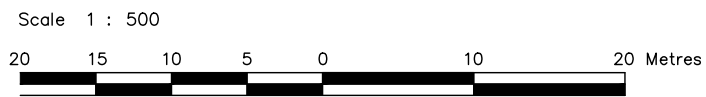




LEGEND

- TREE PROTECTION FENCE
- ✱ EXISTING CONIFEROUS TREE TO BE PRESERVED
- EXISTING DECIDUOUS TREE TO BE PRESERVED
- CRZ
- ⊗ TREE ID. REFER TO IFC ASSOCIATES TREE CHART

REFER TO MAP # 1B FOR TREE PROTECTION DETAIL



stamp



project **2700 SWANSEA CRESCENT
OTTAWA, ON**

drawing MAP # 1A - CURRENT VEGETATION			
scale 1:500	date JULY 6, 2022	project no. XX	dwg. no. MAP 1A
drawn by HP	checked by MR	revision no. 1	



Picture 1. Trees/groupings #1-4 at 2700 Swansea Crescent



Picture 2. Tree groupings #6 and 7 at 2700 Swansea Crescent



Picture 3. Tree groupings #10, 11 and 12 at 2700 Swansea Crescent



Picture 4. Tree groupings #16 at 2700 Swansea Crescent



Picture 5. Trees/groupings #19-22 at 2700 Swansea Crescent

LIMITATIONS OF TREE ASSESSMENTS & LIABILITY

GENERAL

It is the policy of *IFS Associates Inc.* to attach the following clause regarding limitations. We do this to ensure that our clients are clearly aware of what is technically and professionally realistic in assessing trees for retention.

This report was carried out by *IFS Associates Inc.* at the request of the client. The information, interpretation and analysis expressed in this report are for the sole benefit and exclusive use of the client. Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the client to whom it is addressed. Unless otherwise required by law, neither all or any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through public relations, news or other media, without the prior expressly written consent of the author, and especially as to value conclusions, identity of the author, or any reference to any professional society or institute or to any initialed designation conferred upon the author as stated in his qualifications.

This report and any values expressed herein represent the opinion of the author; his fee is in no way contingent upon the reporting of a specified value, a stipulated result, nor upon any finding to be reported.

Details obtained from photographs, sketches, *etc.*, are intended as visual aids and are not to scale. They should not be construed as engineering reports or surveys. Although every effort has been made to ensure that this assessment is reasonably accurate, the tree(s) should be reassessed at least annually. The assessment presented in this report is valid at the time of the inspection only. The loss or alteration of any part of this report invalidates the entire report.

LIMITATIONS

The information contained in this report covers only the tree(s) in question and no others. It reflects the condition of the assessed tree(s) at the time of inspection and was limited to a visual examination of the accessible portions only. *IFS Associates Inc.* has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the forestry and arboricultural professions, subject to the time limits and physical constraints applicable to this report. The assessment of the tree(s) presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground portions of each tree for structural defects, scars, cracks, cavities, external indications of decay such as fungal fruiting bodies, evidence of insect infestations, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of people and property. Except where specifically noted in the report, the tree(s) examined were not dissected, cored, probed or climbed to gain further evidence of their structural condition. Also, unless otherwise noted, no detailed root collar examinations involving excavation were undertaken.

While reasonable efforts have been made to ensure that the tree(s) proposed for retention are healthy, no warranty or guarantee, expressed or implied, are offered that these trees, or any parts of them, will remain standing. This includes other trees on or off the property not examined as part of this assignment. It is both professionally and practically impossible to predict with

absolute certainty the behaviour of any single tree or groups of trees or their component parts in all circumstances, especially when within construction zones. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of root loss due to excavation and other construction-related impacts. This risk can only be eliminated through full tree removal (which is recommended in this case).

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms, and their health and vigour constantly change over time. They are not immune to changes in site conditions, or seasonal variations in the weather. It is a condition of this report that *IFS Associates Inc.* be notified of any changes in tree condition and be provided an opportunity to review or revise the recommendations within this report.

Recognition of changes to a tree's condition requires expertise and extensive experience. It is recommended that *IFS Associates Inc.* be employed to re-inspect the tree(s) with sufficient frequency to detect if conditions have changed significantly.

ASSUMPTIONS

Statements made to *IFS Associates Inc.* in regards to the condition, history and location of the tree(s) are assumed to be correct. Unless indicated otherwise, all trees under investigation in this report are assumed to be on the client's property. A recent survey prepared by a Licensed Ontario Land Surveyor showing all relevant trees, both on and adjacent to the subject property, will be provided prior to the start of field work. The final version of the grading plan for the project will be provided prior to completion of the report. Any further changes to this plan invalidate the report on which it is based. *IFS Associates Inc.* must be provided the opportunity to revise the report in relation to any significant changes to the grading plan. The procurement of said survey and grading plan, and the costs associated with them both, are the responsibility of the client, not *IFS Associates Inc.*

LIABILITY

Without limiting the foregoing, no liability is assumed by *IFS Associates Inc.* for:

- 1) Any legal description provided with respect to the property;
- 2) Issues of title and/or ownership with respect to the property;
- 3) The accuracy of the property line locations or boundaries with respect to the property;
- 4) The accuracy of any other information provided by the client or third parties;
- 5) Any consequential loss, injury or damages suffered by the client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and,
- 6) The unauthorized distribution of the report.

Further, under no circumstances may any claims be initiated or commenced by the client against *IFS Associates Inc.* or any of its directors, officers, employees, contractors, agents or assessors, in contract or in tort, more than 12 months after the date of this report.

ONGOING SERVICES

IFS Associates Inc. accepts no responsibility for the implementation of any or all parts of the report, unless specifically requested to supervise the implementation or examine the results of activities recommended herein. In the event that examination or supervision is requested, that request shall be made in writing and the details, including fees, agreed to in advance.

