INTEGRATED FORESTREE SERVICES INC.

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URBAN FORESTRY & FOREST MANAGEMENT

July 30, 2024

Fouad Matta
FM Renovations
886 Baseline Road
Ottawa, ON
K2C 0A4

RE: TREE INFORMATION REPORT (FULL) FOR 886 BASELINE ROAD

This Tree Information Report (TIR) was prepared by Integrated Forestree Services Inc. (IFS) in support of a severance application for 886 Baseline Road. The need for this report is related to trees protected under the City of Ottawa's Tree Protection By-law (By-law No. 2020-340). The work proposed at this address includes the demolition of an existing single-family dwelling and construction of two long semi-detached dwellings. A shared interior laneway and rear parking are proposed for the new dwellings.

Within the inner urban area of Ottawa, a TIR is required for infill developments and/or demolitions when a 'distinctive' tree is present (*i.e.* 30 cm in diameter at breast height (DBH) or greater). This includes distinctive trees on adjacent properties which have critical root zones (CRZ) extending onto a property slated for development or demolition. 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 TIR by the city and the issuing of a permit authorizes the removal of approved trees. **Importantly, although this report may be used to support the application for a 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 authorizing the injury or destruction of a tree in accordance with the By-law. Further, the removal of any trees shared with or fully on neighbouring properties will require written permission of the adjacent landowner.**

The inventory in this report details the assessment of all individual distinctive trees on the subject and adjacent private property. No trees were found nearby on City of Ottawa lands. Field work for this report was completed in January 2024.

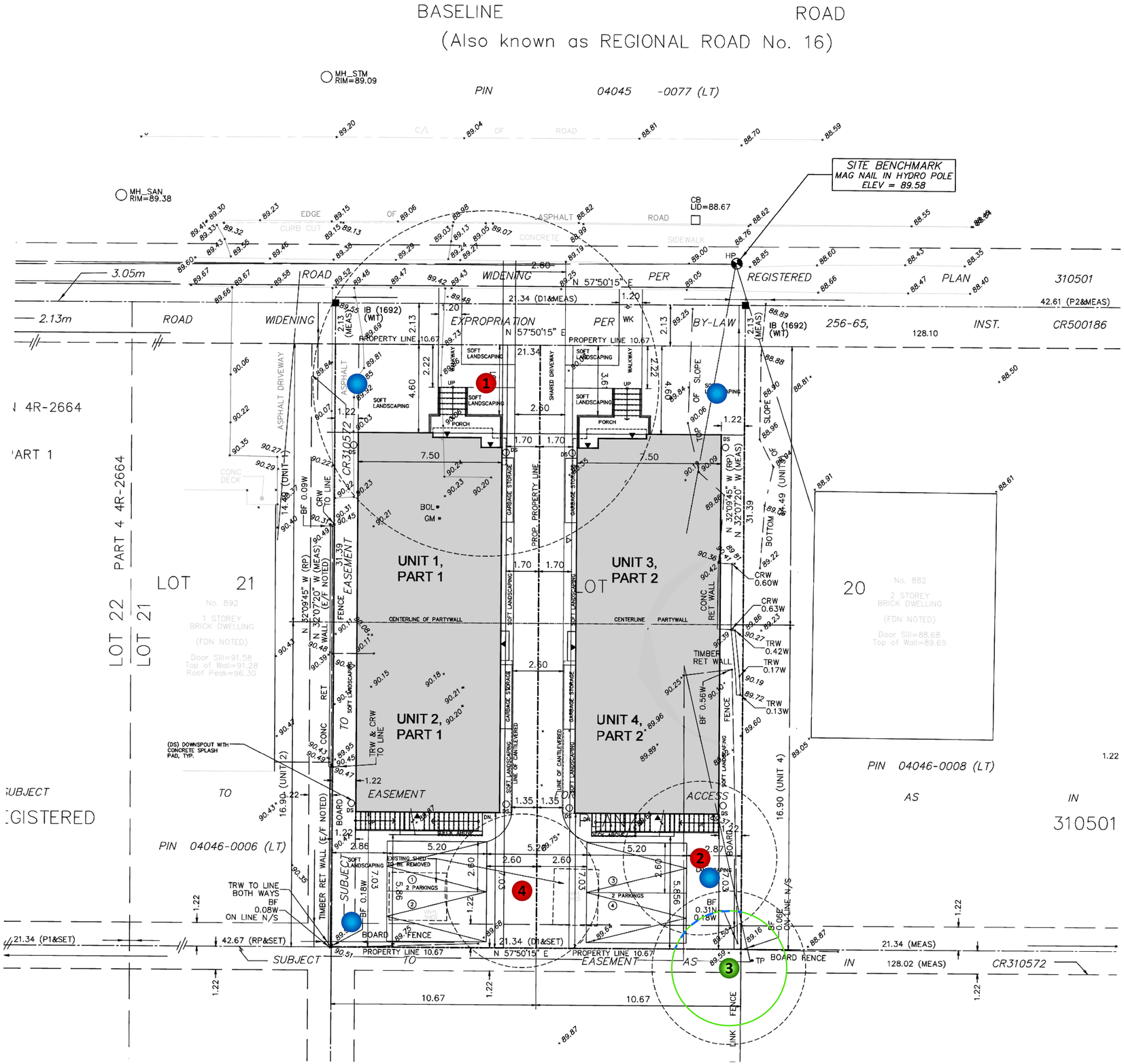
TREE SPECIES, CONDITION, SIZE AND STATUS

Table 1 on page 2 details the individual distinctive trees on and adjacent to the subject property. Each of these trees is referenced by the numbers plotted on the tree information plan included on page 3 of this report.

Table 1. Tree information for 886 Baseline Road

Tree No.	Tree species /Tolerance to Construction[1]	Owner ship	DBH[2] (cm)	CRZ[3] (m)	Distance to excavation (m)[4]	Tree Condition, Age Class, Condition Notes, Species Origin and **Status (to be removed or preserved and protected)**	Reason for removal	Forester's Opinion re. Removal
1	Silver maple *(Acer saccharinum)* / Poor - Moderate	Private	123	12.3	<1	Poor; overmature; tri-stemmed at 1m; all three stems bisect at 1.5m – very broad crown; dieback and deadwood present throughout crown; raised root plate and exposed surface roots; tree is in decline – has outgrown available rooting area; native species; **to be removed**	Conflicts with proposed front steps	Tree and stump be removed
2	Colorado spruce *(Picea pungens)* / Moderate - Good	Private	35.7	3.6	<2	Fair; mature; central dominant stem with generally symmetric crown; fair crown density, annual increment and needle colour; introduced species; **to be removed**	Will not survive root loss in relation to excavation	Tree and stump be removed
3	White spruce *(Picea glauca)* / Moderate - Good	Neigh-bour	+/-30	+/-3	>5	Very poor; mature; topped at 6m by Hydro; remaining crown displaying fair density, growth increment and needle colour; native species; **to be preserved and protected**	Not applicable – to be preserved	Not applicable
4	Norway spruce *(Picea abies)* / Moderate - Good	Private	46.6	4.7	<4	Good; mature; central dominant stem with generally symmetric crown; good crown density, annual increment and needle colour; introduced species; **to be removed**	Conflicts with proposed laneway	Tree and stump be removed

[1]As taken from Managing Trees during Construction; 2nd Ed., Fite and Smiley; [2] Diameter at breast height, or 1.3m from grade (unless otherwise indicated); [3] Critical root zone (CRZ) is considered as being 10 centimetres from the trunk of a tree for every centimetre of DBH. The CRZ is calculated as DBH x 10 cm; [4]Approximate distances only.



GENERAL NOTES

PLANS COMPLETED BY BING PROFESSIONAL ENGINEERING INC. (14/07/24)

LEGEND

- TREE TO REMAIN
- CRITICAL ROOT ZONE
- PROTECTIVE FENCING
- TREE TO BE REMOVED
- PROPOSED NEW MEDIUM-SIZED DECIDUOUS TREE

REPLACEMENT TREE OPTIONS

Medium-sized Deciduous Trees
Kentucky coffee tree *(Gymnocladus dioicus)*
Hackberry *(Celtis occidentalis)*
Red mulberry *(Morus rubra)*
Honey-locust (*Gleditsia triacanthos*)
Ginkgo (*Gingko biloba*)
Ohio buckeye (*Aesculus glabra*)
Pin cherry (*Prunus pensylvanica*)

0 2.5 5 Meters

DRAWING: Tree Information Plan

PROJECT: 886 BASELINE ROAD CITY OF OTTAWA

IFS ASSOCIATES
613-838-5717
Andrew K. Boyd, R.P.F

SCALE:	1:100
DATE:	2024-07-29
DRAWN BY:	SS
SHEET NO.	1
DRAWING NO.	886B

Pictures 1 and 2 on pages 7 and 8 of this report show the distinctive trees on the subject property.

PROVINCIAL REGULATIONS

Certain provincial regulations are applicable to trees on private property. In particular, the Endangered Species Act – ESA (2007) mandates that tree species on the Species at Risk in Ontario (SARO) list be identified. Butternut *(Juglans cinerea)* and black ask *(Fraxinus nigra)* are present in Eastern Ontario and are listed as threatened on the SARO. Because of this both species are protected from harm. No trees of these species were found on or near the subject property.

TREE PRESERVATION MEASURES

Excavation for the new foundation and rear parking will be within the CRZ of tree #3, the neighbouring white spruce. To help reduce the potential for tree decline due to root loss the following measures will be taken in relation to this tree:

1. Hydro or air knife excavation along the edge of excavation to carefully expose roots. Any roots will be cleanly cut and sealed before being reburied. Excavation can then resume using traditional mechanical means. Sealing the cleanly cut root ends with a beeswax product will help prevent the loss of moisture and facilitate healing.

2. If the excavation is to be left open for any time a covering of at least three layers of moistened burlap is to be draped over the exposed face of excavation closest to the trees. This will help reduce the loss of soil moisture.

TREE PROTECTION MEASURES

Protection measures intended to mitigate damage during construction will be applied to the tree to be preserved. The following measures are the minimum required by the City of Ottawa to ensure tree survival during and following construction:

1. Erect a fence as close as possible to the critical root zone (CRZ) of trees (City of Ottawa tree protection barrier detail included on page 6).
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.

REPLACEMENT TREE PLANTING OR COMPENSATION

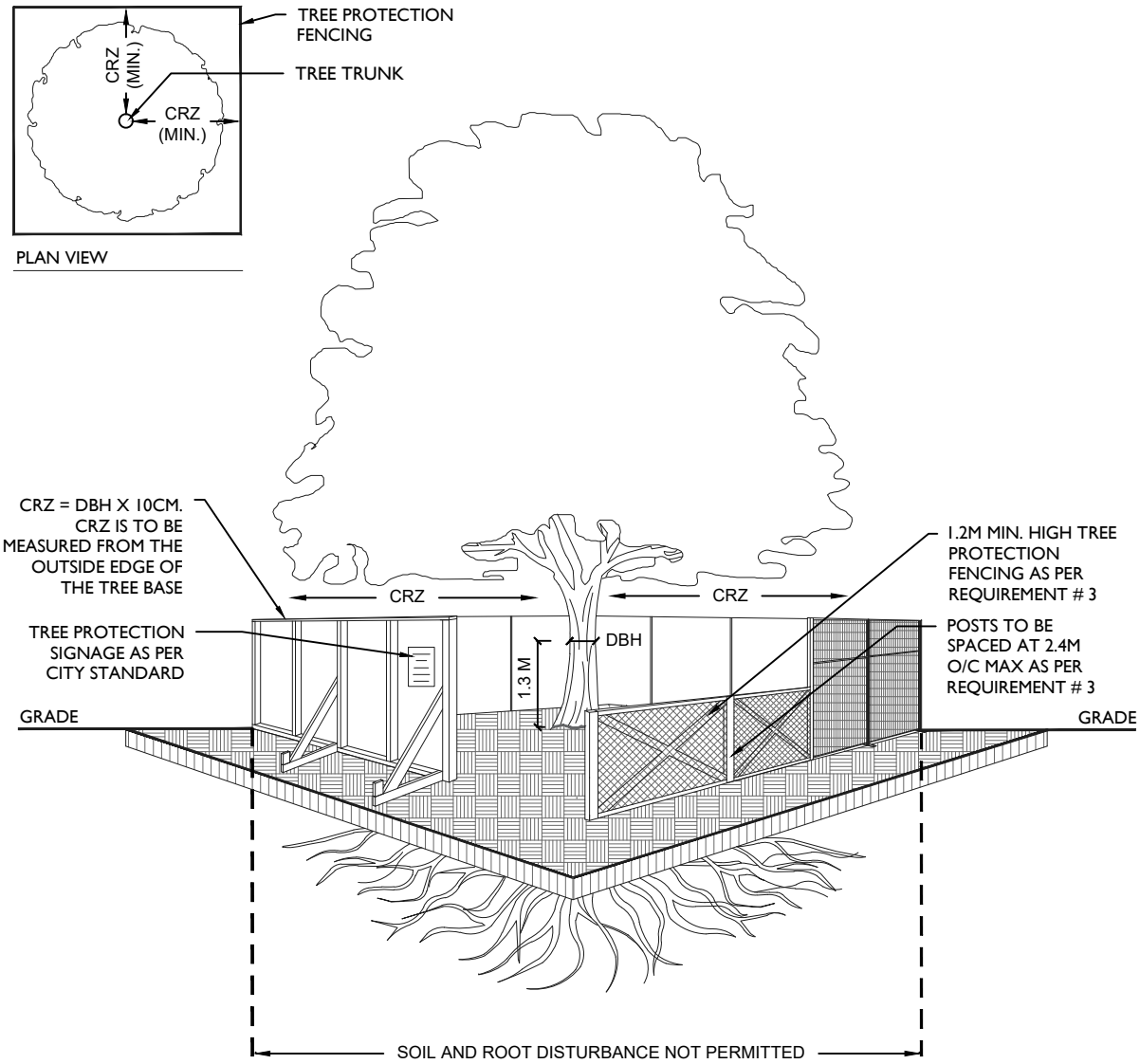
As the property is within the inner urban area, the following ratios are used in terms of replacement tree planting: 2:1 for each removed distinctive tree measuring 30-49 cm in diameter and 3:1 for each distinctive tree measuring 50 cm or greater in diameter. As one tree greater than 50cm and two in the range of 30-49cm are to be removed, compensation of seven (7) new trees is required. Replacement trees must be at least 50mm in caliper if deciduous and 2m in height if coniferous. Suggested replanting locations for four trees are shown on the plan on page 3. The remaining three trees will be compensated monetarily, at a cost of $400 per tree.

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 me 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



TREE PROTECTION REQUIREMENTS:

1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
   - DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
   - DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
   - DO NOT RAISE OR LOWER THE EXISTING GRADE;
   - TUNNEL OR BORE WHEN DIGGING;
   - DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
   - ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
   - DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS. (SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

THE CITY'S TREE PROTECTION BY-LAW, 2020-340 PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

ACCESSIBLE FORMATS AND COMMUNICATION SUPPORTS ARE AVAILABLE, UPON REQUEST

Ottawa

TREE PROTECTION SPECIFICATION

TO 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 WORK ACTIVITIES ON SITE.

SCALE:	NTS
DATE:	MARCH 2021
DRAWING NO.:	1 of 1

Picture 1. Tree #1, private silver maple at 886 Baseline Road

Picture 2. Trees #2 and 4 (left to right), private spruce at 886 Baseline Road

LIMITATIONS OF TREE ASSESSMENTS & LIABILITY

GENERAL

It is the policy of *IFS 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 prepared by *IFS 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 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.

<u>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</u>. 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.

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 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 Inc.* be employed to re-inspect the tree(s) with sufficient frequency to detect if conditions have changed significantly.

ASSUMPTIONS

Statements made to *IFS Inc.* regarding 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 Inc.* must be provided with 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 Inc.*

LIABILITY

Without limiting the foregoing, no liability is assumed by *IFS 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 of 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 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 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. If examination or supervision is requested, that request shall be made in writing and the details, including fees, agreed to in advance.