



**200 John Street East and  
588 Charlotte Street, Niagara-on-  
the-Lake, Ontario Arborist Report  
and Tree Inventory Report**

April 9, 2021

Prepared for:

Solmar (Niagara 2) Corp.  
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Concord, ON L4K 4Z7

Prepared by:

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In association with

Buchanan Expert Tree Care Inc.

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200 JOHN STREET EAST AND 588 CHARLOTTE STREET, NIAGARA-ON-THE-LAKE, ONTARIO  
ARBORIST REPORT AND TREE INVENTORY REPORT

This document entitled "200 John Street East and 588 Charlotte Street, Tree Inventory Report" was prepared by Stantec Consulting Ltd. ("Stantec") in association with Buchanan Expert Tree Care Inc. (BETC). The report was prepared for Solmar (Niagara 2) Corp. in support of the development applications for lands located on the aforementioned properties, 200 John Street East and 588 Charlotte Street in Niagara-On-The-Lake, Ontario (the "Project"). In connection thereto, this document may be reviewed and used by the provincial and municipal government agencies participating in the permitting process in the normal course of their duties. Except as set forth in the previous sentence, any reliance on this document by any third party for any other purpose is strictly prohibited. The material in this document reflects Stantec's and BETC's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec, BETC and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec and BETC did not verify information supplied to it by others. Any unauthorized use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec and BETC shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on unauthorized use of this document.

Prepared by  \_\_\_\_\_  
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**Bill Buchanan, HBScForestry**  
**ISA Board Certified Master Arborist NY-0392B**

Approved by  \_\_\_\_\_  
(signature)

**David Waverman, CAHP, OALA, CSLA**  
**Senior Landscape Architect**



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Introduction  
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## 1.0 INTRODUCTION

Stantec Consulting Ltd. (Stantec) and Buchanan Expert Tree Care (BETC) were retained by Solmar (Niagara 2) Corp (Applicant) to prepare an addendum to previously prepared reports - a Tree Inventory and Condition Report and an Arborist Report for the 200 John Street East and 588 Charlotte Street properties located in Niagara-On-The-Lake, Ontario. All tree inventory and assessment was conducted by Bill Buchanan, HBSForestry, ISA Board Certified Master Arborist NY-0392B. Graphic preparation and field technician support was provided by Stantec.

The original reports: Tree Inventory and Condition Report May 2020 and Arborist Report and Tree Preservation Plan September 9, 2020 were prepared by BETC in support of the Applicant's submission on July 10, 2020 for an Official Plan Amendment, Zoning By-Law Amendment and Draft Plan of Subdivision approval to facilitate the construction of a residential community on the Properties consisting of single and semi-detached dwellings (Applications).

The Arborist Report and Tree Preservation Plan of September 9, 2020 contained the following:

- a. A methodology, which describes what was assessed in the field work and corresponding report and how that work was carried out;
- b. A chart that indicated which trees are proposed to be removed; and
- c. An analysis of proposed mitigation measures.

This report constitutes an addendum to the two previous reports and has been prepared and submitted at the request of the Town of Niagara-of-the-Lake to satisfy and complete the municipal submission requirements associated with the proposed development plans. The scope of work for this report was established as per communications (January 27, 2021) with the Town's representatives and can be found in Appendix A.

The tree inventory was conducted on March 8 and 10, 2021, led by Bill Buchanan, ISA Board Certified Master Arborist. Mr. Buchanan was assisted by David Waverman, Senior Landscape Architect and Cultural Heritage Specialist on March 8, 2021, and by Frank Smith, Stantec, Cultural Heritage Specialist and Kimberley Beech, Stantec, Landscape Architect Intern on March 8 and March 10, 2021.

## 1.1 PURPOSE OF REPORT

As indicated above, this report is an addendum to the earlier described reports and is being provided to address additional criteria/scope in the specific Terms of Reference which were provided by the Town on January 27, 2021.

The proponent was advised by the Town of its position that the policy basis for determining the parameters of the expanded scope of the tree inventory was based on the following:



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- Section 2(d) of the Planning Act and policy 2.6.3 of the PPS, 2020 (designated hotel property and listed property to the east).
- Lands and surrounding lands are within the “John Street East Summer Homes Character Area” in section 7.2.4.8 of NOTL 2019 adopted (but not yet approved OP). Heritage attributes include “mature vegetation on large lots”. Policies identify as a CHL.
- All work to current ISA standards.
- To conduct a photographic record of the trees to: *“assess tree character and the basis for the health rating assigned”*.

Based on the Town’s request, the Applicant has undertaken the additional scope of work as requested, all of which is set out in this report.



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## 2.0 METHODOLOGY

At the request of the Town, the following information on the individual and tree groups was inventoried and appears graphically on the tree inventory plans; as text in the tree inventory charts, and as photographs, found in Appendices B, C and D.

- 3.1 **Tree species**, scientific and common name.
- 3.2 **Trees on private and public adjacent lands** within 6 metres of the subject properties.
- 3.3 **Diameter at Breast Height (DBH)** (metric). Measurement of the trunk at 1.4m above grade. Expressed as diameter in centimetres.
- 3.4 **Tree Canopies/Dripline:** All tree canopies (also referred to as “Dripline”) of individual trees inventoried have their approximate dripline mapped onto the tree inventory plan. All tree driplines had the measurements of the approximate extents of the branches measured from the trunk of the tree. This also represents the general root zone of the tree. Note that tree canopies are not entirely symmetrical nor perfectly circular in shape, canopies indicated are based on the main distance radiating out from the tree.  
Outline of tree grouping canopies based on air photo interpretation.
- 3.5 **Health Rating System:** The following health rating system has been used and has been based on visual inspection on the days of the field work:
  - 0 – Dead, hazardous, or uprooting. Tree exhibits no signs of life. Needs removal.
  - 1 – Declining or diseased tree. Too weak to survive construction. Recommend removal.
  - 2 – Relatively healthy but less vigorous. Will struggle with construction.
  - 3 – Healthy and vigorous. Defects if present are minor (e.g. twig dieback, small wounds) Good chance of survival with construction depending on proximity.
- 3.6 **Tree Preservation Status:** Dead trees on the subject properties that should be removed as they may become potential hazards have been denoted on plan with an x and in Table 2. Dead trees on adjacent properties have been identified as they may be potential hazard trees.  
All trees that are to be potentially removed for construction/development have been demarcated with an “X” symbol as denoted in the legend and found on L-901. Please note this is high level only, as to date this drawing was prepared without the preparation of a composition utility plan, final extent of development of above and below ground infrastructure and final grades. Final Preservation Status is typically determined during the Site Application stages based on final and complete engineering drawings.



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- 3.7 **Natural (occurring) or Cultural (planted):** The tree inventory also included identifying if the tree appeared as per professional opinion of the ISA Certified Master Arborist and Senior Landscape Architect to be naturally occurring (labelled natural on tree inventory plans) or cultural (planted). This information will help inform the municipality whether the trees and their associated siting's are part of a CHL and/or an original DG designed landscape.
- 3.8 **Photographic Record:** A photographic record of each individual tree was recorded and can be found in Appendix C.

Please refer to Tables 1, 2 and 3 below for summaries of findings.

**Table 1: Tree Inventory Summary of Findings**

Item	Description	Quantity
1	Total Number of Individual Trees Inventoried	175
2	Total Tree Groups Inventoried	8
3	Total Number of Trees Inventoried on Adjacent Properties	60
4	Total Number of Inventoried Cultural (planted) Trees on Subject Properties	78
5	Total Number of Inventoried Natural Trees on Subject Properties	37
6	Total Number of Dead Trees on Subject Properties	20
7	Total Number of Dead Trees on Adjacent Properties	2

**Table 2: Trees for Removal/Preservation**

Item	Description	C or N	Preservation
1	<i>Gleditsia triacanthos</i> Honey Locust	N	R
2	<i>Pinus strobus</i> White Pine	C	R
3	<i>Pinus sylvestris</i> Scots Pine	C	R
4	<i>Pinus sylvestris</i> Scots Pine	C	D
5	<i>Fraxinus americana</i> White Ash	N	D
6	<i>Pinus strobus</i> White Pine	C	R
7	<i>Betula papyrifera</i> Paper Birch	N	R
8	<i>Betula papyrifera</i> Paper Birch	N	R
9	<i>Acer saccharinum</i> Silver Maple	N	R
10	<i>Aesculus hippocastanum</i> Horsechestnut	N	R
11	<i>Pinus strobus</i> White Pine	C	R
12	<i>Pinus strobus</i> White Pine	C	R
13	<i>Pinus strobus</i> White Pine	C	R
14	<i>Ailanthus altissima</i> Tree of Heaven	N	R
15	<i>Fraxinus americana</i> White Ash	N	D
16	<i>Pinus strobus</i> White Pine	C	D
17	<i>Salix nigra</i> Black Willow	C	R
18	<i>Pinus strobus</i> White Pine	N	R



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**Table 2: Trees for Removal/Preservation**

Item	Description	C or N	Preservation	
19	<i>Pinus strobus</i>	White Pine	N	R
20	<i>Pinus strobus</i>	White Pine	C	R
21	<i>Prunus serotina</i>	Black Cherry	N	D
22	<i>Prunus serotina</i>	Black Cherry	C	R
23	<i>Ailanthus altissima</i>	Tree of Heaven	N	D
24	<i>Ailanthus altissima</i>	Tree of Heaven	N	R
25	<i>Aesculus hippocastanum</i>	Horsechestnut	C	R
26	<i>Aesculus hippocastanum</i>	Horsechestnut	C	R
27	<i>Pinus strobus</i>	White Pine	C	R
28	<i>Picea abies</i>	Norway Spruce	C	R
29	<i>Aesculus hippocastanum</i>	Horsechestnut	C	D
30	<i>Tilia cordata</i>	Little Leaf Linden	C	R
31	<i>Abies pseudotsuga</i>	Douglas Fir	C	R
32	<i>Tilia cordata</i>	Little Leaf Linden	C	R
33	<i>Picea abies</i>	Norway Spruce	C	R
34	<i>Picea abies</i>	Norway Spruce	C	R
35	<i>Aesculus hippocastanum</i>	Horsechestnut	C	R
36	<i>Abies pseudotsuga</i>	Douglas Fir	C	R
37	<i>Abies pseudotsuga</i>	Douglas Fir	C	R
38	<i>Pinus strobus</i>	White Pine	C	D
39	<i>Pinus strobus</i>	White Pine	C	R
40	<i>Pinus strobus</i>	White Pine	C	R
41	<i>Aesculus hippocastanum</i>	Horsechestnut	N	R
42	<i>Picea abies</i>	Norway Spruce	C	R
43	<i>Picea abies</i>	Norway Spruce	C	R
44	<i>Picea abies</i>	Norway Spruce	C	R
45	<i>Picea abies</i>	Norway Spruce	C	R
46	<i>Juglans nigra</i>	Black Walnut	N	R
47	<i>Quercus rubra</i>	Red Oak	N	R
48	<i>Prunus serotina</i>	Black cherry	N	R
49	<i>Pinus strobus</i>	White Pine	C	R
50	<i>Juglans nigra</i>	Black Walnut	N	R
51	<i>Pinus sylvestris</i>	Scots Pine	C	R
52	<i>Pinus nigra</i>	Austrian Pine	C	R
53	<i>Pinus nigra</i>	Austrian Pine	C	D
54	<i>Pinus sylvestris</i>	Scots Pine	C	R
55	<i>Pinus sylvestris</i>	Scots Pine	C	R
56	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	R
57	<i>Thuja occidentalis</i>	Eastern White Cedar	C	R
58	<i>Thuja occidentalis</i>	Eastern White Cedar	C	R
59	<i>Pinus sylvestris</i>	Scots Pine	C	R
60	<i>Pinus nigra</i>	Austrian Pine	C	D
61	<i>Pinus sylvestris</i>	Scots Pine	C	R
62	<i>Pinus sylvestris</i>	Scots Pine	C	R





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**Table 2: Trees for Removal/Preservation**

Item	Description	C or N	Preservation
63	<i>Pinus sylvestris</i>	Scots Pine	C R
64	<i>Pinus nigra</i>	Austrian Pine	C R
65	<i>Pinus nigra</i>	Austrian Pine	C D
66	<i>Pinus sylvestris</i>	Scots Pine	C D
67	<i>Pinus nigra</i>	Austrian Pine	C D
68	<i>Pinus sylvestris</i>	Scots Pine	C R
69	<i>Pinus sylvestris</i>	Scots Pine	C D
70	<i>Pinus nigra</i>	Austrian Pine	C R
71	<i>Quercus alba</i>	White Oak	N R
72	<i>Quercus alba</i>	White Oak	N R
73	<i>Quercus rubra</i>	Red Oak	N P
74	<i>Juglans nigra</i>	Black Walnut	N P
75	<i>Quercus alba</i>	White Oak	N P
76	<i>Fraxinus americana</i>	White Ash	N D
77	<i>Pinus nigra</i>	Austrian Pine	C R
78	<i>Ulmus pumila</i>	Siberian Elm	N R
79	<i>Quercus alba</i>	White Oak	N P
80	<i>Quercus alba</i>	White Oak	N P
81	<i>Aesculus hippocastanum</i>	Horsechestnut	N R
82	<i>Fraxinus americana</i>	White Ash	N D
83	<i>Pinus sylvestris</i>	Scots Pine	C D
84	<i>Pinus sylvestris</i>	Scots Pine	C D
85	<i>Pinus sylvestris</i>	Scots Pine	C D
86	<i>Populus deltoides</i>	Cottonwood	N R
87	<i>Populus deltoides</i>	Cottonwood	N R
88	<i>Picea abies</i>	Norway Spruce	C R
89	<i>Acer platanoides</i>	Norway Maple	N R
90	<i>Morus alba</i>	Mulberry	N R
91	<i>Pinus sylvestris</i>	Scots Pine	C R
92	<i>Pinus nigra</i>	Austrian Pine	C R
93	<i>Pinus sylvestris</i>	Scots Pine	C R
94	<i>Pinus nigra</i>	Austrian Pine	C R
95	<i>Cercidiphyllum japonicum</i>	Katsura	C R
96	<i>Betula nigra</i>	River Birch	C R
97	<i>Acer rubrum</i>	Red Maple	C R
98	<i>Pinus strobus</i>	White Pine	C R
99	<i>Pinus strobus</i>	White Pine	C R
100	<i>Pinus strobus</i>	White Pine	C R
101	<i>Fraxinus americana</i>	White Ash	N D
102	<i>Quercus palustris</i>	Pin Oak	C R
103	<i>Acer rubrum</i>	Red Oak	C R
104	<i>Ulmus pumila</i>	Siberian Elm	N R
105	<i>Metasequoia glyptostroboides</i>	Dawn Redwood	C R
106	<i>Pinus strobus</i>	White Pine	C R



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**Table 2: Trees for Removal/Preservation**

Item	Description	C or N	Preservation
107	<i>Pinus strobus</i> White Pine	C	R
108	<i>Pinus nigra</i> Austrian Pine	C	R
109	<i>Juglans nigra</i> Black Walnut	N	R
110	<i>Ulmus pumila</i> Siberian Elm	C	R
111	<i>Chamaecyparis sp.</i> Cypress	C	R
112	<i>Taxus cuspidata</i> Japanese Yew	C	R
147	<i>Gymnocladus dioicus</i> Kentucky Coffee-Tree	C	R
148	<i>Betula papyrifera</i> Paper Birch	C	R
149	<i>Pinus nigra</i> Austrian Pine	C	R

Natural/Cultural Species

N Naturally Occurring Tree

C Cultural (planted) Tree

Preservation/Removal Status

R Recommended for Removal as per development plans.

P Preserve

D Dead/Dying tree identified as potential hazard tree.

**Table 3: Trees for Removal/Preservation on Adjacent Properties**

Item	Description	C or N	Preservation
1A	<i>Juglans nigra</i> Black Walnut	N	P
2A	<i>Juglans nigra</i> Black Walnut	N	P
3A	<i>Quercus alba</i> White Oak	N	P
4A	<i>Carya laciniosa</i> Big Shell Bark Hickory	N	P
5A	<i>Pinus strobus</i> White Pine	N	P
6A	<i>Pinus strobus</i> White Pine	N	P
7A	<i>Pinus strobus</i> White Pine	N	P
8A	<i>Prunus serotina</i> Black Cherry	N	P
9A	<i>Carya laciniosa</i> Big Shell Bark Hickory	N	P
10A	<i>Juglans nigra</i> Black Walnut	N	P
11A	<i>Picea abies</i> Norway Spruce	N	P
12A	<i>Quercus rubra</i> Red Oak	C	P
13A	<i>Aesculus hippocastanum</i> Horsechestnut	N	P
14A	<i>Prunus serotina</i> Black Cherry	N	P
15A	<i>Ailanthus altissima</i> Tree of Heaven	N	P
16A	<i>Ailanthus altissima</i> Tree of Heaven	N	P
17A	<i>Ailanthus altissima</i> Tree of Heaven	N	P
18A	<i>Gymnocladus dioicus</i> Kentucky Coffee-Tree	C	P
19A	<i>Gymnocladus dioicus</i> Kentucky Coffee-Tree	N	P
20A	<i>Juglans nigra</i> Black Walnut	N	D
21A	<i>Ailanthus altissima</i> Tree of Heaven	N	P
22A	<i>Juglans nigra</i> Black Walnut	N	P
23A	<i>Quercus rubra</i> Red Oak	N	P
24A	<i>Ailanthus altissima</i> Tree of Heaven	N	P
25A	<i>Juglans nigra</i> Black Walnut	N	P
26A	<i>Acer platanoides</i> Norway Maple	C	P



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**Table 3: Trees for Removal/Preservation on Adjacent Properties**

Item	Description	C or N	Preservation	
27A	<i>Juglans nigra</i>	Black Walnut	N	P
28A	<i>Quercus rubra</i>	Red Oak	N	P
29A	<i>Quercus alba</i>	White Oak	C	P
30A	<i>Picea abies</i>	Norway Spruce	C	P
31A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
32A	<i>Juglans nigra</i>	Black Walnut	N	P
33A	<i>Ulmus americana</i>	American Elm	N	P
34A	<i>Fraxinus americana</i>	White Ash	N	D
35A	<i>Juglans nigra</i>	Black Walnut	N	P
36A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
37A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
38A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
39A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
40A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	N	P
41A	<i>Pinus nigra</i>	Austrian Pine	C	P
42A	<i>Pinus nigra</i>	Austrian Pine	C	P
43A	<i>Pinus nigra</i>	Austrian Pine	C	P
44A	<i>Pinus nigra</i>	Austrian Pine	C	P
45A	<i>Ulmus pumila</i>	Siberian Elm	N	P
46A	<i>Ulmus pumila</i>	Siberian Elm	N	P
47A	<i>Ulmus pumila</i>	Siberian Elm	N	P
48A	<i>Ulmus pumila</i>	Siberian Elm	N	P
49A	<i>Ulmus pumila</i>	Siberian Elm	N	P
50A	<i>Ulmus pumila</i>	Siberian Elm	N	P
51A	<i>Ulmus pumila</i>	Siberian Elm	N	P
52A	<i>Ulmus pumila</i>	Siberian Elm	N	P
53A	<i>Ulmus pumila</i>	Siberian Elm	N	P
54A	<i>Ulmus pumila</i>	Siberian Elm	N	P
60A	<i>Ulmus pumila</i>	Siberian Elm	N	P
61A	<i>Ulmus pumila</i>	Siberian Elm	N	P
62A	<i>Chamaecyparis sp.</i>	Cypress	C	P
63A	<i>Chamaecyparis sp.</i>	Cypress	C	P
64A	<i>Acer platanoides</i>	Norway Maple	C	P
65A	<i>Acer platanoides</i>	Norway Maple	C	P

Natural/Cultural Species

N Naturally Occurring Tree

C Cultural (planted) Tree

Preservation/Removal Status

P Preserve

D Dead/Dying tree identified as potential hazard tree.



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## 3.0 SUMMARY AND RECOMMENDATIONS

This report was prepared at the request of the Town to address their specific terms of reference set out in Appendix A as an addendum to the previously prepared Tree Inventory and Condition Report (BECT May 2020) and the Arborist Report and Tree Preservation Plan (BECT September 9, 2020) for the 200 John Street East and 588 Charlotte Street properties and as such is meant to be read in conjunction with them.

The original reports were prepared by BETC in support of the Applicant's submission on July 10, 2020 for an Official Plan Amendment, Zoning By-Law Amendment and Draft Plan of Subdivision approval to facilitate the construction of a residential community on the Subject Lands consisting of single and semi-detached dwellings (Applications).

Please refer to the September 9, 2020 Arborist Report and Tree Preservation Plan for specification, direction regarding:

1. Detailed information on the methodology of the tree inventory.
2. Tree Preservation, Protection & Management.
3. Tree Protection Barriers.
4. Tree Maintenance (Pre-Construction, During Construction and Post-Construction);
5. Town By-law 4571-12, *A By-law to Authorize and Regulate the Planting, Care, Maintenance and Removal of Trees on the Town of Niagara-on-the-Lake's Property* (the "**Public Tree By-law**"); and
6. Town By-law 5139-19, *A By-law to Regulate the Destruction or Injuring of Trees on Private Property in the Urban Areas of the Municipality and to Rescind By-law 5106-18* (the "**Private Tree Bylaw**").

Note that any species ranked as Endangered, Threatened, or of Special Concern, located on the Subject Lands or within 6 m of the property lines were inventoried and assessed.

**There are no trees identified as *species at risk or regionally significant/endangered* species identified for removal.**

Consistent with the original reports, all inventoried trees have been identified by their scientific name and regionally used common name.

In summary, to date, based on current development site plans, 90 of the inventoried trees are recommended for removal (due to development) and 20 to be removed as potential hazard trees as they are dead or dying. Two (2) tree groups (#5 and #6) are recommended for removal, and four (4) trees groups (#1,2,3 & 4) will be partially impacted (for removals) by development based on current site plans. As noted previously, this summary of preservation/removals is typically assessed at the Site Plan



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approval stages and accompanied by final engineering drawings, including above and below ground utilities and final grading plans.

It is recommended that the Applicant follow all tree preservation measures for the trees to be retained as per the cited original Arborist Report and Preservation Plan.



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Disclaimer  
April 9, 2021

## 4.0 DISCLAIMER

The assessment of the trees presented within this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay, evidence of insect presence, discoloured foliage, the general condition of the trees and the surrounding site, as well as the proximity of property and people. None of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be realized that trees are living organisms and their health and vigour is constantly changing. They are not immune to changes in site conditions or seasonal variations in the weather.

While reasonable efforts have been made to ensure the trees recommended for retention are healthy, no guarantees are offered or implied, that these trees or any part of them will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or group of trees in all circumstances. Inevitably a standing tree will always pose some risk. Most trees have the potential for failure if provided with the necessary combinations of stresses and elements. This risk can only be eliminated if the tree is removed.

Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.



# **APPENDIX A**

## **Town of Niagara-on-the-Lake List of Tree Inventory Requirements**

**200 JOHN STREET EAST AND 588 CHARLOTTE STREET, NIAGARA-ON-THE-LAKE, ONTARIO  
ARBORIST REPORT AND TREE INVENTORY REPORT**

Appendix A

**Original List of Tree Inventory Requirements from the Town of Niagara-on-the-Lake**

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***TERMS OF REFERENCE***

*Given this history and context, we are looking for an Arborist Report and Tree Inventory that includes:*

- 1. Trees on adjacent private and municipal lands that are within 6 m of the Subdivision Property boundary.*
- 2. Identification and use of the minimum DBH for trees to be surveyed as per ISA standards. Survey all trees that meet that standard. Include DBH in Tree Inventory Chart.*
- 3. DBH in metric.*
- 4. An indication as to whether tree canopies shown are conceptual or accurate.*
- 5. A Health Rating System based on the tree health in its current condition.*
- 6. A Tree Inventory that identifies and differentiates trees proposed for removal due to poor health v. the proposed development.*
- 7. Photos sufficient to assess tree character and the basis for the health rating assigned.*
- 8. The dates for site visits or visual inspections.*



# **APPENDIX B**

## **Tree Inventory Charts**

Group #	Botanical Name	Common Name	Percentage	Approximate Age (Years)
1A	<i>Carya laciniosa</i>	Shell bark Hickory	98	5
	<i>Platanus occidentalis</i>	Sycamore (1 tree)	2	
1	<i>Populus deltoides</i>	Cottonwood (1 tree)	2	30
	<i>Fraxinus americana</i>	White Ash	49	
	<i>Acer saccharinum</i>	Silver maple	49	
2A	<i>Fraxinus americana</i>	White Ash	35	20-50
	<i>Quercus alba</i>	White Oak	15	
	<i>Tilia americana</i>	Linden	2	
	<i>Prunus sp.</i>	Sweet Cherry	2	
	<i>Pyrus sp.</i>	Pear	1	
	<i>Carya ovata</i>	Hickory	5	
	<i>Ulmus americana</i>	Elm	10	
	<i>Juglans nigra</i>	Black Walnut	20	
2	<i>Acer negundo</i>	Manitoba Maple	10	20-150
	<i>Quercus alba</i>	White Oak	20	
	<i>Crataegus sp.</i>	Hawthorn	5	
	<i>Fraxinus americana</i>	White Ash	10	
	<i>Ulmus americana</i>	Elm	5	
	<i>Carya ovata</i>	Shagbark Hickory	35	
	<i>Quercus palustris</i>	Pin Oak	5	
	<i>Populus deltoides</i>	Cottonwood	5	
	<i>Prunus serotina</i>	Black Cherry	5	
	<i>Tilia americana</i>	Linden	5	
3	<i>Gleditsia triacanthos</i>	Honey Locust	5	20-75
	<i>Pinus strobus</i>	White Pine	7	
	<i>Picea abies</i>	Norway Spruce	3	
	<i>Fraxinus americana</i>	White Ash	65	
	<i>Quercus alba</i>	White Oak	10	
	<i>Quercus palustris</i>	Pin Oak	10	
4	<i>Juglans nigra</i>	Black Walnut	5	27
	<i>Pinus nigra</i>	Austrian Pine	80	
	<i>Picea pungens</i>	Blue Spruce	5	
	<i>Pinus strobus</i>	White Pine	5	
	<i>Ulmus pumila</i>	Siberian Elm	2	
	<i>Pinus sylvestris</i>	Scots Pine	3	
	<i>Picea glauca</i>	White Spruce	3	
<i>Salix discolor</i>	Pussy Willow	2		
5	<i>Syringa sp.</i>	Lilac	100	Existing trunks 30 years, possible regeneration
6	<i>Prunus nigra</i>	Canadian Plum	100	100





Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Age
1A	<i>Juglans nigra</i>	Black Walnut	83	3	13	N	100
2A	<i>Juglans nigra</i>	Black Walnut	59	3	11.5	N	40
3A	<i>Quercus alba</i>	White Oak	41	3	5.5	N	40
4A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	63	3	11.5	N	100
5A	<i>Pinus strobus</i>	White Pine	37	3	6	N	20
6A	<i>Pinus strobus</i>	White Pine	44	2	10	N	40
7A	<i>Pinus strobus</i>	White Pine	49	2	7	N	40
1	<i>Gleditsia triacanthos</i>	Honey Locust	73	3	13	N	100
2	<i>Pinus strobus</i>	White Pine	36	2	5	C	30
3	<i>Pinus sylvestris</i>	Scots Pine					
4	<i>Pinus sylvestris</i>	Scots Pine	38	0	6	C	30
5	<i>Fraxinus americana</i>	White Ash	38	0	7	N	30
8A	<i>Prunus serotina</i>	Black Cherry	54	1	7	N	30
6	<i>Pinus strobus</i>	White Pine	56	2	8	C	30
7	<i>Betula papyrifera</i>	Paper Birch	28	2	4	N	20
8	<i>Betula papyrifera</i>	Paper Birch	29	2	6	N	20
9	<i>Acer saccharinum</i>	Silver Maple	32	3	6	N	20
10	<i>Aesculus hippocastanum</i>	Horsechestnut	22	3	6	N	20
11	<i>Pinus strobus</i>	White Pine	50	2	7	C	40
12	<i>Pinus strobus</i>	White Pine	48	2	7	C	40
13	<i>Pinus strobus</i>	White Pine	24	1	4	C	30
14	<i>Ailanthus altissima</i>	Tree of Heaven	31	1	4	N	10
15	<i>Fraxinus americana</i>	White Ash	96	0	10	N	70
16	<i>Pinus strobus</i>	White Pine	31	0	3	C	30
17	<i>Salix nigra</i>	Black Willow	107	1	8	C	50
18	<i>Pinus strobus</i>	White Pine	57	2	8	N	40
19	<i>Pinus strobus</i>	White Pine	42	2	4	N	20
20	<i>Pinus strobus</i>	White Pine	88	3	12	C	100
21	<i>Prunus serotina</i>	Black Cherry	60	0	3	N	50
9A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	30	3	5	N	25
10A	<i>Juglans nigra</i>	Black Walnut	44	2	9	N	40
11A	<i>Picea abies</i>	Norway Spruce	39	2	5	N	40
12A	<i>Quercus rubra</i>	Red Oak	46	3	8	C	40
13A	<i>Aesculus hippocastanum</i>	Horsechestnut	22	1	4	N	20
14A	<i>Prunus serotina</i>	Black Cherry	38	1	3	N	30
22	<i>Prunus serotina</i>	Black Cherry	89	1	8	C	60
23	<i>Ailanthus altissima</i>	Tree of Heaven	79	0	0	N	40
15A	<i>Ailanthus altissima</i>	Tree of Heaven	24	1	3	N	10
16A	<i>Ailanthus altissima</i>	Tree of Heaven	34	1	5	N	20
17A	<i>Ailanthus altissima</i>	Tree of Heaven	29	1	5	N	20
18A	<i>Gymnocladus dioicus</i>	Kentucky Coffee-Tree	45	3	8	C	40
19A	<i>Gymnocladus dioicus</i>	Kentucky Coffee-Tree	25	2	5	N	20
20A	<i>Juglans nigra</i>	Black Walnut	31	0	0	N	20
21A	<i>Ailanthus altissima</i>	Tree of Heaven	34	1	5	N	20
22A	<i>Juglans nigra</i>	Black Walnut	26	2	6	N	20
23A	<i>Quercus rubra</i>	Red Oak	28	2	7	N	15
24A	<i>Ailanthus altissima</i>	Tree of Heaven	21	2	5	N	10
25A	<i>Juglans nigra</i>	Black Walnut	31	3	6	N	20
26A	<i>Acer platanoides</i>	Norway Maple	36	1	5	C	20
27A	<i>Juglans nigra</i>	Black Walnut	63	3	15	N	60
28A	<i>Quercus rubra</i>	Red Oak	57	3	11	N	40
24	<i>Ailanthus altissima</i>	Tree of Heaven	24	1	5	N	20
25	<i>Aesculus hippocastanum</i>	Horsechestnut	76	2	13	C	100
26	<i>Aesculus hippocastanum</i>	Horsechestnut	59	2	8	C	100
27	<i>Pinus strobus</i>	White Pine	80	3	12	C	100
28	<i>Picea abies</i>	Norway Spruce	74	3	9	C	100
29A	<i>Quercus alba</i>	White Oak	43	3	9	C	50
30A	<i>Picea abies</i>	Norway Spruce	78	3	13	C	100
29	<i>Aesculus hippocastanum</i>	Horsechestnut	79	0	2	C	100
30	<i>Tilia cordata</i>	Little Leaf Linden	24	2	7	C	20
31	<i>Abies pseudotsuga</i>	Douglas Fir	43	2	4	C	100
32	<i>Tilia cordata</i>	Little Leaf Linden	29	3	6	C	20
33	<i>Picea abies</i>	Norway Spruce	73	3	11	C	100
34	<i>Picea abies</i>	Norway Spruce	61	2	9	C	100
35	<i>Aesculus hippocastanum</i>	Horsechestnut	75	1	10	C	100
36	<i>Abies pseudotsuga</i>	Douglas Fir	25	2	3	C	20
37	<i>Abies pseudotsuga</i>	Douglas Fir	25	2	3	C	20
38	<i>Pinus strobus</i>	White Pine	50	0	0	C	100
39	<i>Pinus strobus</i>	White Pine	51	2	6	C	100
40	<i>Pinus strobus</i>	White Pine	45	2	6	C	100
41	<i>Aesculus hippocastanum</i>	Horsechestnut	27	1	4	N	20
42	<i>Picea abies</i>	Norway Spruce	63	3	8	C	100
43	<i>Picea abies</i>	Norway Spruce	47	3	6	C	100
44	<i>Picea abies</i>	Norway Spruce	66	3	14	C	100
31A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	55	3	11	N	100





45	<i>Picea abies</i>	Norway Spruce	62	3	12	C	100
32A	<i>Juglans nigra</i>	Black Walnut	52	3	16	N	75
33A	<i>Ulmus americana</i>	American Elm	25	1	5	N	15
34A	<i>Fraxinus americana</i>	White Ash	22	0	0	N	10
46	<i>Juglans nigra</i>	Black Walnut	27	3	6	N	15
47	<i>Quercus rubra</i>	Red Oak	29	2	8	N	25
48	<i>Prunus serotina</i>	Black cherry	35	1	6	N	30
49	<i>Pinus strobus</i>	White Pine	70	2	11	C	100
50	<i>Juglans nigra</i>	Black Walnut	36	2	10	N	25
51	<i>Pinus sylvestris</i>	Scots Pine	48	2	8	C	50
52	<i>Pinus nigra</i>	Austrian Pine	32	1	5	C	50
53	<i>Pinus nigra</i>	Austrian Pine	45	0	7	C	50
54	<i>Pinus sylvestris</i>	Scots Pine	46	2	7	C	50
55	<i>Pinus sylvestris</i>	Scots Pine	34	1	4	C	50
56	<i>Carya laciniosa</i>	Big Shell Bark Hickory	60	3	16	N	100
57	<i>Thuja occidentalis</i>	Eastern White Cedar	42	2	4	C	100
58	<i>Thuja occidentalis</i>	Eastern White Cedar	41	2	4	C	100
59	<i>Pinus sylvestris</i>	Scots Pine	53	2	6	C	100
60	<i>Pinus nigra</i>	Austrian Pine	46	0	5	C	100
61	<i>Pinus sylvestris</i>	Scots Pine	39	1	5	C	100
35A	<i>Juglans nigra</i>	Black Walnut	35	1	5	N	15
36A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	43	3	7	N	75
37A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	42	3	7	N	75
62	<i>Pinus sylvestris</i>	Scots Pine	21	1	1	C	50
63	<i>Pinus sylvestris</i>	Scots Pine	41	1	5	C	50
64	<i>Pinus nigra</i>	Austrian Pine	36	1	4	C	50
65	<i>Pinus nigra</i>	Austrian Pine	39	0	4	C	50
66	<i>Pinus sylvestris</i>	Scots Pine	49	0	8	C	50
67	<i>Pinus nigra</i>	Austrian Pine	33	0	4	C	50
68	<i>Pinus sylvestris</i>	Scots Pine	29	1	4	C	50
69	<i>Pinus sylvestris</i>	Scots Pine	36	0	3	C	50
70	<i>Pinus nigra</i>	Austrian Pine	56	2	8	C	50
38A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	43	3	10	N	75
39A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	37	3	5	N	75
40A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	29	3	5	N	30
71	<i>Quercus alba</i>	White Oak	82	2	10	N	75
72	<i>Quercus alba</i>	White Oak	76	2	15	N	125
73	<i>Quercus rubra</i>	Red Oak	113	1	18	N	225
74	<i>Juglans nigra</i>	Black Walnut	44	3	8	N	30
75	<i>Quercus alba</i>	White Oak	74	1	14	N	125
76	<i>Fraxinus americana</i>	White Ash	32	0	5	N	30
41A	<i>Pinus nigra</i>	Austrian Pine	28	1	4	C	20
42A	<i>Pinus nigra</i>	Austrian Pine	32	1	4	C	20
43A	<i>Pinus nigra</i>	Austrian Pine	45	1	7	C	20
44A	<i>Pinus nigra</i>	Austrian Pine	38	1	7	C	20
45A	<i>Ulmus pumila</i>	Siberian Elm	59	2	9	N	40
46A	<i>Ulmus pumila</i>	Siberian Elm	21	2	3	N	10
47A	<i>Ulmus pumila</i>	Siberian Elm	22	2	3	N	10
48A	<i>Ulmus pumila</i>	Siberian Elm	23	2	3	N	10
49A	<i>Ulmus pumila</i>	Siberian Elm	40	2	5	N	10
50A	<i>Ulmus pumila</i>	Siberian Elm	38	2	5	N	10
51A	<i>Ulmus pumila</i>	Siberian Elm	36	2	5	N	10
52A	<i>Ulmus pumila</i>	Siberian Elm	91	2	14	N	40
53A	<i>Ulmus pumila</i>	Siberian Elm	24	2	5	N	20
54A	<i>Ulmus pumila</i>	Siberian Elm	24	2	5	N	20
60A	<i>Ulmus pumila</i>	Siberian Elm	36	2	8	N	30
61A	<i>Ulmus pumila</i>	Siberian Elm	40	2	8	N	30
77	<i>Pinus nigra</i>	Austrian Pine	33	1	4	C	20
78	<i>Ulmus pumila</i>	Siberian Elm	30	2	4	N	20
79	<i>Quercus alba</i>	White Oak	92	3	11.5	N	175
80	<i>Quercus alba</i>	White Oak	119	3	23	N	250
81	<i>Aesculus hippocastanum</i>	Horsechestnut	66	2	9	N	50
82	<i>Fraxinus americana</i>	White Ash	23	0	3	N	15
83	<i>Pinus sylvestris</i>	Scots Pine	44	0	3	C	30
84	<i>Pinus sylvestris</i>	Scots Pine	43	0	6	C	30
85	<i>Pinus sylvestris</i>	Scots Pine	39	0	6	C	30
86	<i>Populus deltoides</i>	Cottonwood	24	1	4	N	10
87	<i>Populus deltoides</i>	Cottonwood	35	1	6	N	20
88	<i>Picea abies</i>	Norway Spruce	68	2	11	C	75
89	<i>Acer platanoides</i>	Norway Maple	22	2	3	N	10
90	<i>Morus alba</i>	White Mulberry	42	1	5	N	15
91	<i>Pinus sylvestris</i>	Scots Pine	61	2	8	C	75
92	<i>Pinus nigra</i>	Austrian Pine	65	1	10	C	75
93	<i>Pinus sylvestris</i>	Scots Pine	43	1	6	C	75
94	<i>Pinus nigra</i>	Austrian Pine	48	1	6	C	75
95	<i>Cercidiphyllum japonicum</i>	Katsura	44	2	4	C	20
96	<i>Betula nigra</i>	River Birch	31	3	6	C	20
97	<i>Acer rubrum</i>	Red Maple	20	2	6	C	20
98	<i>Pinus strobus</i>	White Pine	25	3	7	C	20
99	<i>Pinus strobus</i>	White Pine	30	3	7	C	20

100	<i>Pinus strobus</i>	White Pine	30	3	7	C	20
101	<i>Fraxinus americana</i>	White Ash	27	0	5	N	20
102	<i>Quercus palustris</i>	Pin Oak	29	3	6	C	20
103	<i>Acer rubrum</i>	Red Oak	23	3	5	C	20
104	<i>Ulmus pumila</i>	Siberian Elm	21	3	4	N	10
105	<i>Metasequoia glyptostroboides</i>	Dawn Redwood	25	3	5	C	20
106	<i>Pinus strobus</i>	White Pine	22	3	7	C	20
107	<i>Pinus strobus</i>	White Pine	21	3	7	C	20
108	<i>Pinus nigra</i>	Austrian Pine	71	1	11	C	75
109	<i>Juglans nigra</i>	Black Walnut	61	2	11	N	50
110	<i>Ulmus pumila</i>	Siberian Elm	53	2	10	C	40
111	<i>Chamaecyparis sp.</i>	Cypress	42	3	5	C	40
112	<i>Taxus cuspidata</i>	Japanese Yew	21	2	5	C	40
147	<i>Gymnocladus dioica</i>	Kentucky Coffee-Tree	32	3	5	C	20
148	<i>Betula papyrifera</i>	Paper Birch	23	3	5	C	20
149	<i>Pinus nigra</i>	Austrian Pine	38	2	5	C	20
62A	<i>Chamaecyparis sp.</i>	Cypress	26	3	4	C	20
63A	<i>Chamaecyparis sp.</i>	Cypress	26	3	4	C	20
64A	<i>Acer platanoides</i>	Norway Maple	50	1	6	C	20
65A	<i>Acer platanoides</i>	Norway Maple	50	1	6	C	20
BW1	<i>Buxus sp.</i>	Boxwood	19 & 14	3		C	100
BW2	<i>Buxus sp.</i>	Boxwood	31	3		C	100
BW3	<i>Buxus sp.</i>	Boxwood	15	3		C	100
BW4	<i>Buxus sp.</i>	Boxwood	16	3		C	100




# **APPENDIX C**

## **Photographic Inventory**





Tag #	Botanical Name	Common Name	Tree Photo
1A	<i>Juglans nigra</i>	Black Walnut	
2A	<i>Juglans nigra</i>	Black Walnut	
3A	<i>Quercus alba</i>	White Oak	
4A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	





5A	<i>Pinus strobus</i>	White Pine	
6A	<i>Pinus strobus</i>	White Pine	
7A	<i>Pinus strobus</i>	White Pine	
1	<i>Gleditsia triacanthos</i>	Honey Locust	









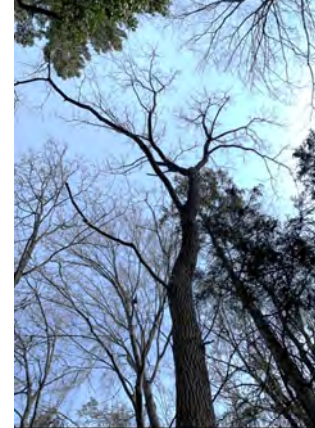

2	<i>Pinus strobus</i>	White Pine	
3	<i>Pinus sylvestris</i>	Scots Pine	Has been removed (Dead).
4	<i>Pinus sylvestris</i>	Scots Pine	
5	<i>Fraxinus americana</i>	White Ash	





8A	<i>Prunus serotina</i>	Black Cherry			
6	<i>Pinus strobus</i>	White Pine			
7	<i>Betula papyrifera</i>	Paper Birch			
8	<i>Betula papyrifera</i>	Paper Birch			



9	<i>Acer saccharinum</i>	Silver Maple			
10	<i>Aesculus hippocastanum</i>	Horsechestnut			
11	<i>Pinus strobus</i>	White Pine			
12	<i>Pinus strobus</i>	White Pine			

13	<i>Pinus strobus</i>	White Pine			
14	<i>Ailanthus altissima</i>	Tree of Heaven			
15	<i>Fraxinus americana</i>	White Ash			
16	<i>Pinus strobus</i>	White Pine			





17	<i>Salix nigra</i>	Black Willow			
18	<i>Pinus strobus</i>	White Pine			
19	<i>Pinus strobus</i>	White Pine			
20	<i>Pinus strobus</i>	White Pine			





21	<i>Prunus serotina</i>	Black Cherry			
9A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
10A	<i>Juglans nigra</i>	Black Walnut			
11A	<i>Picea abies</i>	Norway Spruce			

12A	<i>Quercus rubra</i>	Red Oak			
13A	<i>Aesculus hippocastanum</i>	Horsechestnut			
14A	<i>Prunus serotina</i>	Black Cherry			
22	<i>Prunus serotina</i>	Black Cherry			

23	<i>Ailanthus altissima</i>	Tree of Heaven			
15A	<i>Ailanthus altissima</i>	Tree of Heaven			
16A	<i>Ailanthus altissima</i>	Tree of Heaven			
17A	<i>Ailanthus altissima</i>	Tree of Heaven			








18A	<i>Gymnocladus dioicus</i>	Kentucky Coffee-Tree			
19A	<i>Gymnocladus dioicus</i>	Kentucky Coffee-Tree			
20A	<i>Juglans nigra</i>	Black Walnut			
21A	<i>Ailanthus altissima</i>	Tree of Heaven			

22A	<i>Juglans nigra</i>	Black Walnut			
23A	<i>Quercus rubra</i>	Red Oak			
24A	<i>Ailanthus altissima</i>	Tree of Heaven			
25A	<i>Juglans nigra</i>	Black Walnut			





26A	<i>Acer platanoides</i>	Norway Maple			
27A	<i>Juglans nigra</i>	Black Walnut			
28A	<i>Quercus rubra</i>	Red Oak			
24	<i>Ailanthus altissima</i>	Tree of Heaven			

25	<i>Aesculus hippocastanum</i>	Horsechestnut			
26	<i>Aesculus hippocastanum</i>	Horsechestnut			
27	<i>Pinus strobus</i>	White Pine			
28	<i>Picea abies</i>	Norway Spruce			





29A	<i>Quercus alba</i>	White Oak			
30A	<i>Picea abies</i>	Norway Spruce			
29	<i>Aesculus hippocastanum</i>	Horsechestnut			
30	<i>Tilia cordata</i>	Little Leaf Linden			


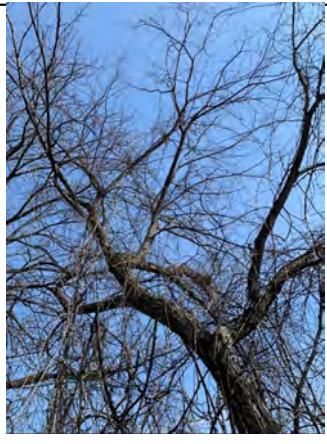

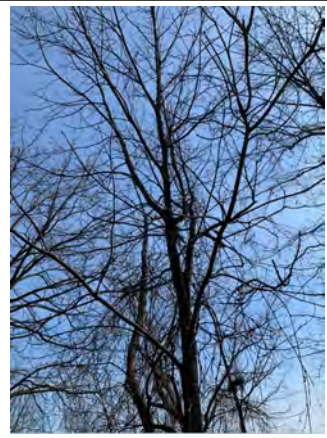
31	<i>Abies pseudotsuga</i>	Douglas Fir			
32	<i>Tilia cordata</i>	Little Leaf Linden			
33	<i>Picea abies</i>	Norway Spruce			
34	<i>Picea abies</i>	Norway Spruce			





35	<i>Aesculus hippocastanum</i>	Horsechestnut			
36	<i>Abies pseudotsuga</i>	Douglas Fir			
37	<i>Abies pseudotsuga</i>	Douglas Fir			
38	<i>Pinus strobus</i>	White Pine			





39	<i>Pinus strobus</i>	White Pine			
40	<i>Pinus strobus</i>	White Pine			
41	<i>Aesculus hippocastanum</i>	Horsechestnut			
42	<i>Picea abies</i>	Norway Spruce			


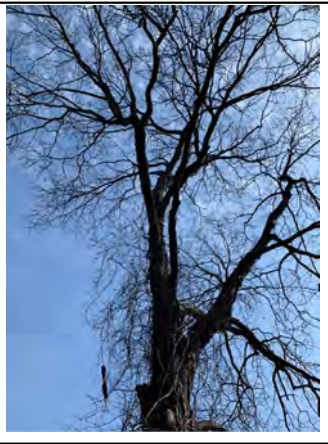







43	<i>Picea abies</i>	Norway Spruce			
44	<i>Picea abies</i>	Norway Spruce			
31A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
45	<i>Picea abies</i>	Norway Spruce			





32A	<i>Juglans nigra</i>	Black Walnut			
33A	<i>Ulmus americana</i>	American Elm			
34A	<i>Fraxinus americana</i>	White Ash			
46	<i>Juglans nigra</i>	Black Walnut			



47	<i>Quercus rubra</i>	Red Oak			
48	<i>Prunus serotina</i>	Black cherry			
49	<i>Pinus strobus</i>	White Pine			
50	<i>Juglans nigra</i>	Black Walnut			

51	<i>Pinus sylvestris</i>	Scots Pine			
52	<i>Pinus nigra</i>	Austrian Pine			
53	<i>Pinus nigra</i>	Austrian Pine			
54	<i>Pinus sylvestris</i>	Scots Pine			

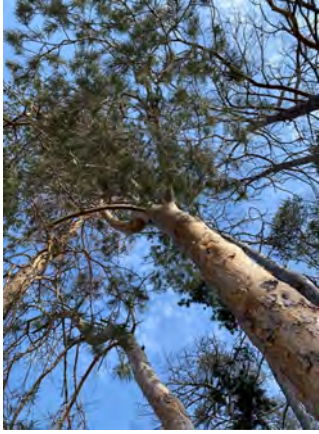



55	<i>Pinus sylvestris</i>	Scots Pine			
56	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
57	<i>Thuja occidentalis</i>	Eastern White Cedar			
58	<i>Thuja occidentalis</i>	Eastern White Cedar			





59	<i>Pinus sylvestris</i>	Scots Pine			
60	<i>Pinus nigra</i>	Austrian Pine			
61	<i>Pinus sylvestris</i>	Scots Pine			
35A	<i>Juglans nigra</i>	Black Walnut			





36A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
37A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
62	<i>Pinus sylvestris</i>	Scots Pine			
63	<i>Pinus sylvestris</i>	Scots Pine			

64	<i>Pinus nigra</i>	Austrian Pine			
65	<i>Pinus nigra</i>	Austrian Pine			
66	<i>Pinus sylvestris</i>	Scots Pine			
67	<i>Pinus nigra</i>	Austrian Pine			








68	<i>Pinus sylvestris</i>	Scots Pine			
69	<i>Pinus sylvestris</i>	Scots Pine			
70	<i>Pinus nigra</i>	Austrian Pine			
38A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			





39A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
40A	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
71	<i>Quercus alba</i>	White Oak			
72	<i>Quercus alba</i>	White Oak			





73	<i>Quercus rubra</i>	Red Oak			
74	<i>Juglans nigra</i>	Black Walnut			
75	<i>Quercus alba</i>	White Oak			
76	<i>Fraxinus americana</i>	White Ash			

41A	<i>Pinus nigra</i>	Austrian Pine			
42A	<i>Pinus nigra</i>	Austrian Pine			
43A	<i>Pinus nigra</i>	Austrian Pine			
44A	<i>Pinus nigra</i>	Austrian Pine			

45A	<i>Ulmus pumila</i>	Siberian Elm			
46A	<i>Ulmus pumila</i>	Siberian Elm			
47A	<i>Ulmus pumila</i>	Siberian Elm			
48A	<i>Ulmus pumila</i>	Siberian Elm			

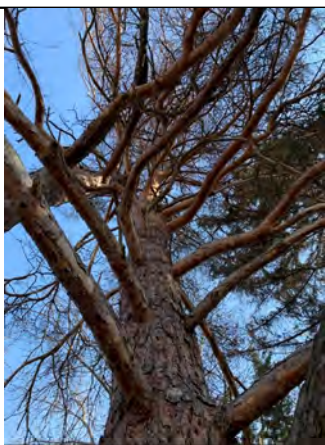

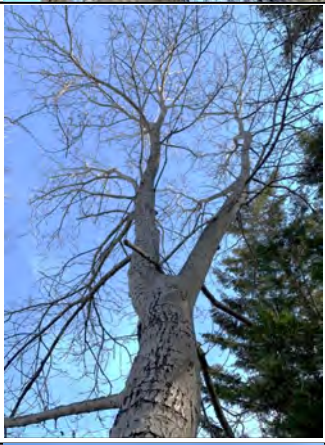

49A	<i>Ulmus pumila</i>	Siberian Elm			
50A	<i>Ulmus pumila</i>	Siberian Elm			
51A	<i>Ulmus pumila</i>	Siberian Elm			
52A	<i>Ulmus pumila</i>	Siberian Elm			

53A	<i>Ulmus pumila</i>	Siberian Elm			
54A	<i>Ulmus pumila</i>	Siberian Elm			
60A	<i>Ulmus pumila</i>	Siberian Elm			
61A	<i>Ulmus pumila</i>	Siberian Elm			

77	<i>Pinus nigra</i>	Austrian Pine			
78	<i>Ulmus pumila</i>	Siberian Elm			
79	<i>Quercus alba</i>	White Oak			
80	<i>Quercus alba</i>	White Oak			










81	<i>Aesculus hippocastanum</i>	Horsechestnut			
82	<i>Fraxinus americana</i>	White Ash			
83	<i>Pinus sylvestris</i>	Scots Pine			
84	<i>Pinus sylvestris</i>	Scots Pine			



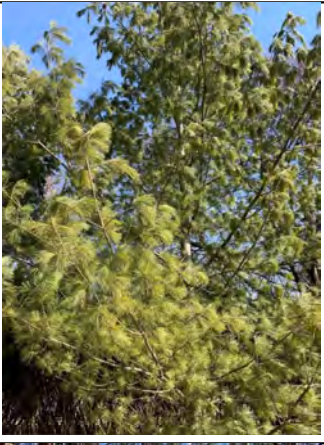

85	<i>Pinus sylvestris</i>	Scots Pine			
86	<i>Populus deltoides</i>	Cottonwood			
87	<i>Populus deltoides</i>	Cottonwood			
88	<i>Picea abies</i>	Norway Spruce			





89	<i>Acer platanoides</i>	Norway Maple			
90	<i>Morus alba</i>	White Mulberry			
91	<i>Pinus sylvestris</i>	Scots Pine			
92	<i>Pinus nigra</i>	Austrian Pine			

93	<i>Pinus sylvestris</i>	Scots Pine			
94	<i>Pinus nigra</i>	Austrian Pine			
95	<i>Cercidiphyllum japonicum</i>	Katsura			
96	<i>Betula nigra</i>	River Birch			

97	<i>Acer rubrum</i>	Red Maple			
98	<i>Pinus strobus</i>	White Pine			
99	<i>Pinus strobus</i>	White Pine			
100	<i>Pinus strobus</i>	White Pine			





101	<i>Fraxinus americana</i>	White Ash			
102	<i>Quercus palustris</i>	Pin Oak			
103	<i>Acer rubrum</i>	Red Oak			
104	<i>Ulmus pumila</i>	Siberian Elm			

105	<i>Metasequoia glyptostroboides</i>	Dawn Redwood			
106	<i>Pinus strobus</i>	White Pine			
107	<i>Pinus strobus</i>	White Pine			
108	<i>Pinus nigra</i>	Austrian Pine			

109	<i>Juglans nigra</i>	Black Walnut			
110	<i>Ulmus pumila</i>	Siberian Elm			
111	<i>Chamaecyparis</i> <i>sp.</i>	Cypress			
112	<i>Taxus cuspidata</i>	Japanese Yew			



147	<i>Gymnocladus dioicus</i>	Kentucky Coffee-Tree			
148	<i>Betula papyrifera</i>	Paper Birch			
149	<i>Pinus nigra</i>	Austrian Pine			
62A	<i>Chamaecyparis</i> sp.	Cypress			

63A	<i>Chamaecyparis</i> sp.	Cypress			
64A	<i>Acer platanoides</i>	Norway Maple			
65A	<i>Acer platanoides</i>	Norway Maple			
BW1	<i>Buxus</i> sp.	Boxwood			

BW2	Buxus sp.	Boxwood			
BW3	Buxus sp.	Boxwood			
BW4	Buxus sp.	Boxwood			

# **APPENDIX D**

**Preliminary Drawings (Not For Construction)**



Stantec Consulting Ltd.  
100-300 Hagey Boulevard  
Waterloo ON N2L 0A4  
Tel: (519) 579-4410  
www.stantec.com



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Key Map NTS.



**Legend**

- Dead Standing Tree
- Existing Natural Deciduous Tree
- Existing Natural Coniferous Tree
- Existing Cultural Deciduous Tree
- Existing Cultural Coniferous Tree
- Cultural Tree
- Natural Tree
- Cultural Trees Within 5m on Adjacent Properties
- Natural Tree Within 5m on Adjacent Properties
- Tree Grouping
- Tree To Be Removed
- Tree Grouping To Be Removed

Revision/Issue	By	Appd	YYYY.MM.DD
File Name: 161414045_L1-M	KB	DW/WB	2021.04.09
	Dwn.	Dsgn.	Chkd.

Permit-Seal

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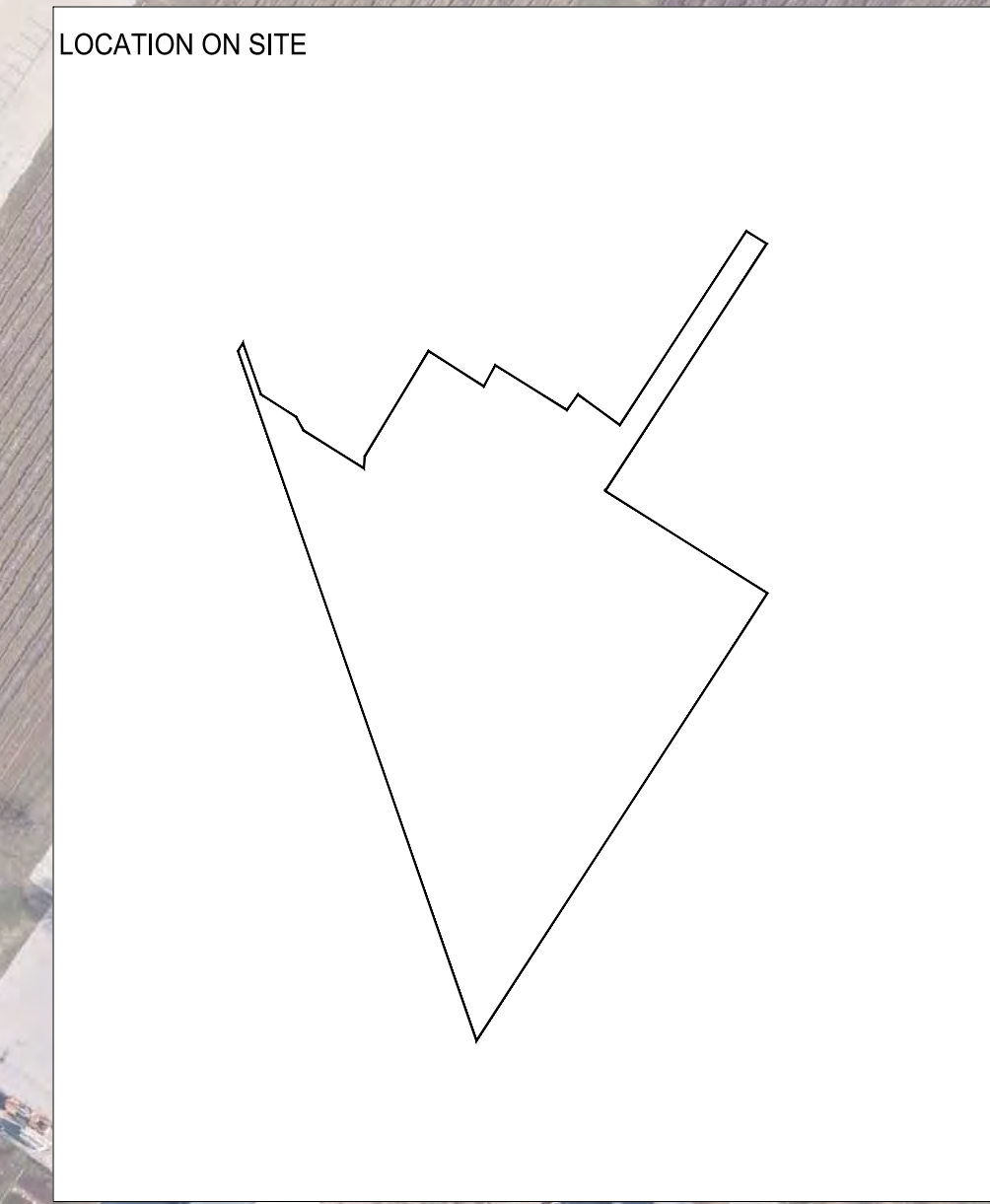
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Client/Project  
**SOLMAR**

200 JOHN STREET EAST & 588 CHARLOTTE STREET  
NIAGARA-ON-THE-LAKE  
ONTARIO, CANADA

Title  
**EXISTING TREE INVENTORY PLAN  
FULL SITE**

Project No.	Scale
161414045	1:1250
Revision	Sheet
	1 of 8
Drawing No.	
<b>L-900</b>	



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 ORIGINAL SHEET - ARCH D





**BUCHANAN**  
expert tree care

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Key Map NTS.



**Legend**

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- Tree Grouping
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- Tree Grouping To Be Removed

Revision/Issue	By	Appd	YYYY.MM.DD
File Name: 161414045-L1-M	KB	DW/WB	2021.04.09
	Dwn.	Dsgn.	Chkd.

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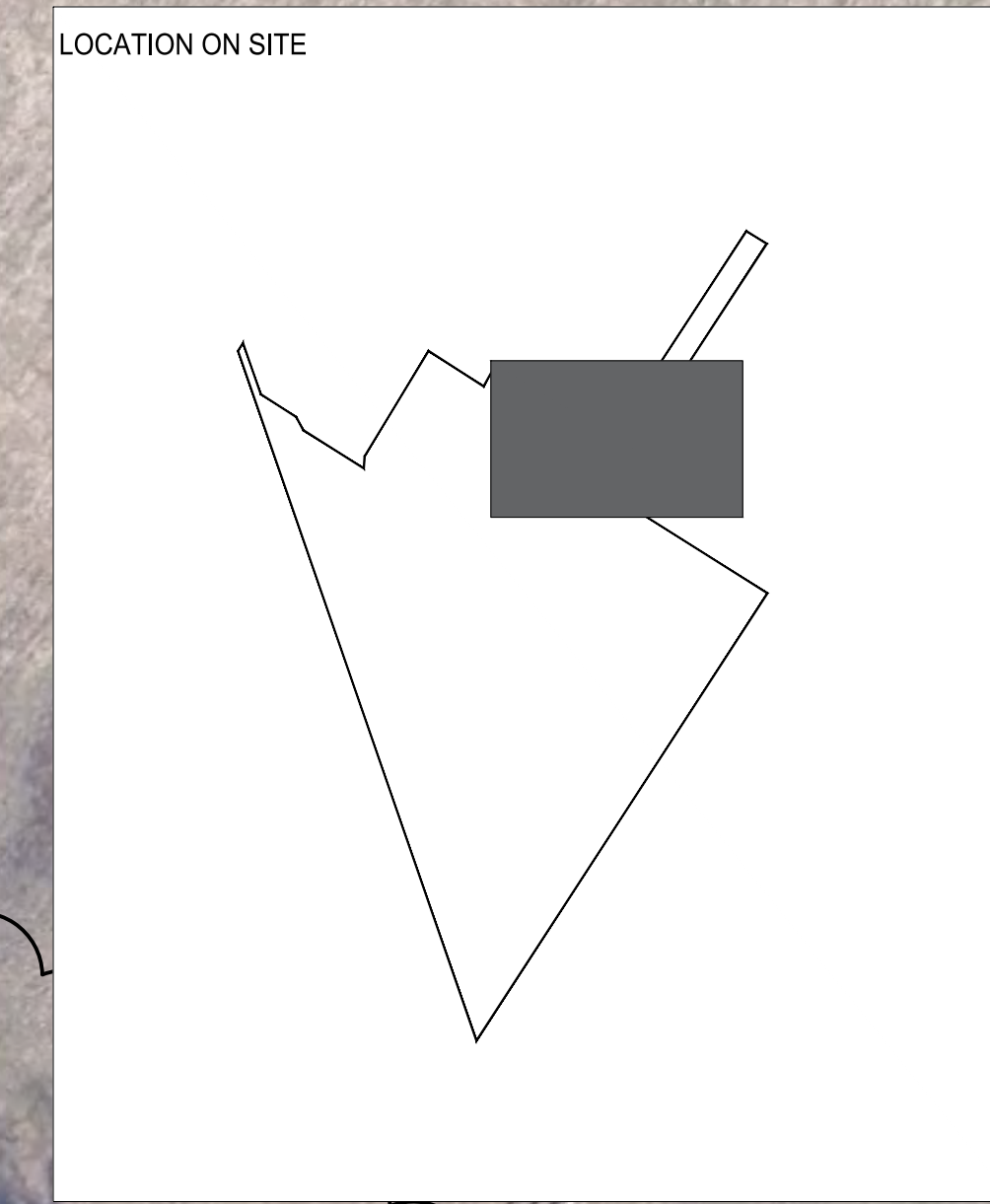
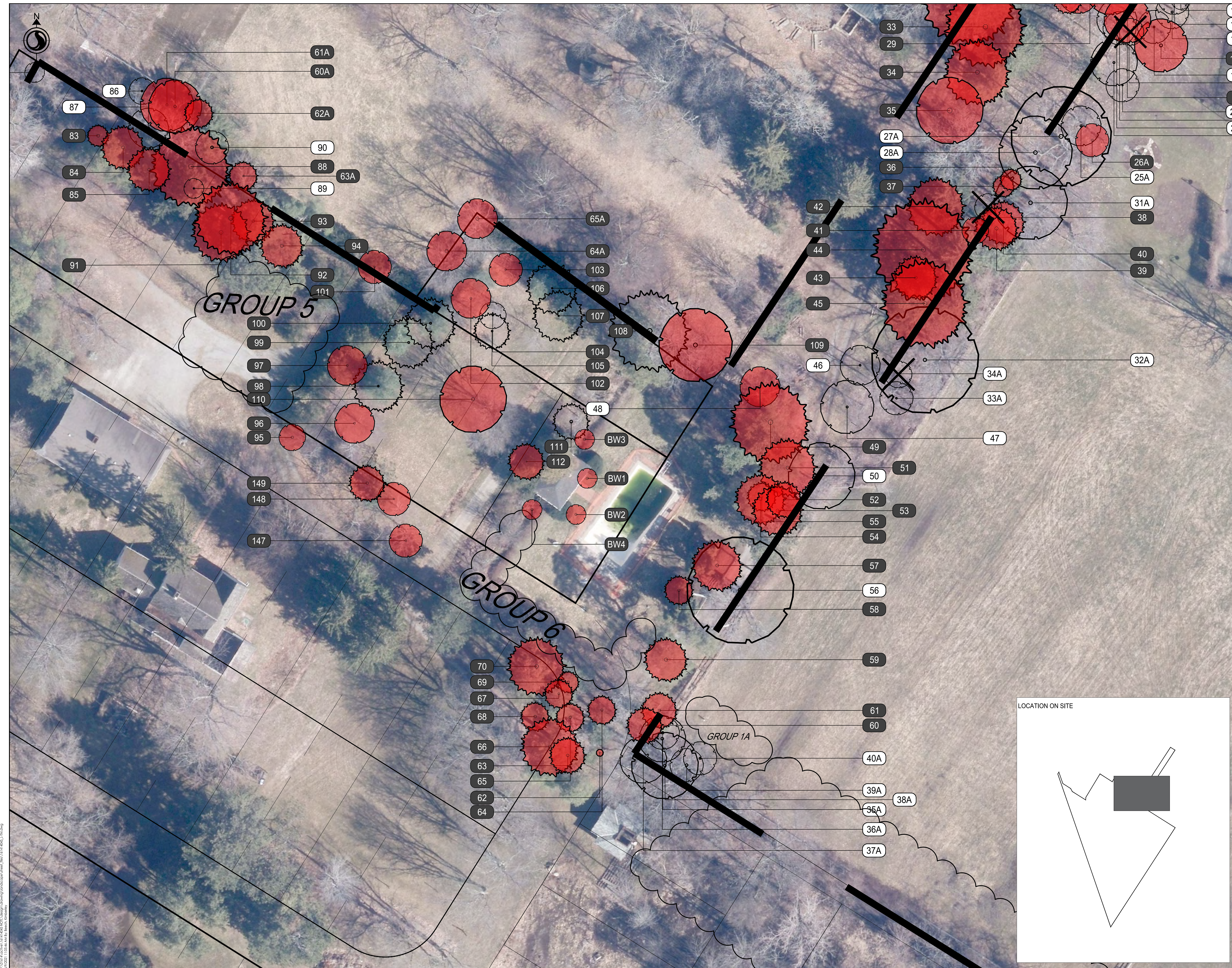
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NIAGARA-ON-THE-LAKE  
ONTARIO, CANADA

Title  
**EXISTING TREE INVENTORY PLAN  
QUADRANT B**

Project No. 161414045 Scale 1:250

Revision Sheet 3 of 8 Drawing No. L-900B



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Key Map NTS.



**Legend**

- Dead Standing Tree
- Existing Natural Deciduous Tree
- Existing Natural Coniferous Tree
- Existing Cultural Deciduous Tree
- Existing Cultural Coniferous Tree
- Cultural Tree
- Natural Tree
- Cultural Trees Within 5m on Adjacent Properties
- Natural Tree Within 5m on Adjacent Properties
- Tree Grouping
- Tree To Be Removed
- Tree Grouping To Be Removed

Revision/Issue	By	Appd	YYYY.MM.DD
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ONTARIO, CANADA

Title  
**EXISTING TREE INVENTORY PLAN  
QUADRANT C**

Project No. 161414045 Scale 1:750

Revision Sheet 4 of 8 Drawing No. **L-900C**

