

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

June 28, 2021

Prepared for:

Solmar (Niagara 2) Corp.  
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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, Niagara-On-The-Lake, Ontario Arborist Report and Tree Inventory Report was prepared by Buchanan Expert Tree Care Inc. (BETC) in association with Stantec Consulting Ltd. 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 BETC's and Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between BETC, Stantec 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, HBSc Forestry  
ISA Board Certified Master Arborist NY-0392B**



Reviewed by \_\_\_\_\_

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

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

Introduction  
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## 1.0 INTRODUCTION

Buchanan Expert Tree Care (BETC), was retained by Solmar (Niagara 2) Corp. (the Property Owner) to prepare a Tree Inventory and Arborist Report for the properties located at 200 John Street and 588 Charlotte Street (the Study Area), in the Town of Niagara-on-the-Lake, Ontario. Adjacent to the Study Area are the designated properties 144 John Street East and 176 John Street East. Together, the properties historically made up the estate known as “Randwood”. Other lands adjacent to the properties were also formerly part of the Randwood Estate but have been severed into subdivisions surrounding Christopher Street and Weatherstone Court.

On August 23, 2018, the Town issued notices of intention to designate (NOID) the properties at 200 John Street East at 588 Charlotte Street East. The owner objected to the NOIDs on the basis of the identification of heritage attributes, initiating a hearing at the Conservation Review Board (CRB). The objective of this Tree Inventory and Arborist Report is to support the location any cultural heritage value or interest (CHVI) within the property and to specifically assist the team with the identification heritage attributes that are specified as items of issues in the CRB hearing, particularly which elements of the property relate to the Dunington-Grubb landscape architect duo.

All tree inventory and assessments conducted by Bill Buchanan, HBSc Forestry, ISA Board Certified Master Arborist NY-0392B. Graphic preparation and field technician support was provided by Stantec.

Note that as per Attachment 6: Guidance to Parties on Expert Reports & Other Disclosure Materials of the March 24, 2021 Procedural Order this Tree Inventory and Arborist Report may vary from the expert report guidelines on the basis that it is not a heritage report, but rather an arborist report.

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

The tree inventory was conducted on the following dates:

- March 8, 2021 (Bill Buchanan, David Waverman, Frank Smith, Kimberley Beech).
- March 10, 2021 (Bill Buchanan, Frank Smith, Kimberley Beech).
- May 12, 2021 (Bill Buchanan, David Waverman, Frank Smith, Kimberley Beech).
- June 17<sup>th</sup> 2021 (Bill Buchanan, Kimberley Beech, David Waverman).



**200 JOHN STREET EAST AND 588 CHARLOTTE STREET, NIAGARA-ON-THE-LAKE, ONTARIO  
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## **2.0 METHODOLOGY**

### **2.1.1 Report Framework**

The report content and structure has been guided by the CRB *Guidance to Parties on Expert Reports & Other Disclosure Materials* (Attachment 6 in the Conservation Review Board Procedural Order dated March 24, 2021). The Report Framework provided is outlined in Table 1.

**Table 1: Report Framework**

<b>Reference #</b>	<b>CRB Report Guidance</b>	<b>Relevant Section</b>
1a.	An analysis of the property as it exists, describing its features in terms, and placing such features and overall design in the context of architectural history by citing academically credible secondary sources on such history. Images appropriate for highlighting features described should be included. Accurate reference to the architectural lexicon is expected when describing architectural features.	Section 3.0
1b	Where applicable, an analysis of the property as it relates to the available corpus of work of the architect or craftsman in question with reference to primary/archival sources, including contemporaneous issues of relevant architectural journals. Reference should also be made to academically credible secondary sources including, if applicable, the Biographical Dictionary of Architects in Canada.	N.A.
1c	Where applicable, a review of the history of the property and the historically relevant themes, events, beliefs, persons, activities, organizations or institutions connected with the property (whichever is applicable), placing the property or such relevant factors in its historical context by citing primary/archival sources, including (but not limited to) archival photographs, historical atlases, archival newspapers, fire insurance plans, original business directories, and archival diaries and correspondence, together with academically credible secondary sources.	N.A.
1d	A detailed and criterion-by-criterion evaluation of the property, in light of the analysis conducted, as it applies to the criteria set out in O. Reg. 9/06.	N.A.
1e	A conclusion, drawing together these various analytical elements	Section 4.0
1f	A bibliography	Section 7.0



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**Table 1: Report Framework**

Reference #	CRB Report Guidance	Relevant Section
1g	Appendices consisting of: <ul style="list-style-type: none"><li>Fully and clearly replicated historic and archival materials relied upon in the expert report.</li><li>Relevant extracts from secondary sources relied upon in the expert report.</li></ul>	Appendix A

## **2.1.2 Tree Inventory 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 **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).



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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.

- 3.7 **Photographic Record:** A photographic record of each individual tree was recorded and can be found in Appendix C.

## 2.1.3 Town of Niagara-on-the-lake Tree Inventory Requirements

The methodology used for the tree inventory was adopted from the tree inventory requirements provided by the Town of Niagara-on-the-lake. These requirements were acquired from the town for the purpose of the initial "200 John Street East and 588 Charlotte Street, Niagara-on-the-lake, Ontario Arborist Report and Tree Inventory Report" completed on April 9<sup>th</sup>, 2021 for the Solmar subdivision application. Refer to Appendix A for the full list of requirements.

## 2.1.4 Methodology of Sectioned Properties

The tree inventory of properties 200 John Street East and 588 Charlotte Street was conducted and organized into smaller parcels of land, or 'sections', to allow a more thorough analysis of each specific 'section'. Both properties were divided into three sections, based on geographic location. Within each section individual trees and groupings of trees were inventoried. The decision to inventory an 'individual tree' verse a 'grouping of trees' was based on:

- 1) Which form of field data would provide the best-informed understanding of the particular landscape;
- 2) Where it was determined that inventorying trees in groups, where the individual specimen of a uniform species and size would not provide any benefit in understanding the nature of the landscape, and;
- 3) The municipal requirements did not require trees under 10cm caliber to be inventoried, therefore it was determined that immature species would be best accounted for in a group composition.

The groupings were also assessed as to their composition pertained to natural versus planted/cultural character and the approximate age of these groupings.

The reasoning for these choices is listed below.

### 200 John Street East

- Linear Strip Accessed via John Street East
  - Individual trees were inventoried due to their potential cultural value, and age.
- Northwest Section
  - Individual trees were inventoried as the Northwest Section is known to be of cultural interest. However, tree groupings were used for Groups 5 and 6 within



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this section because these areas are monoculture plantings of the same species and of similar age.

- Southeast Section
  - Individual trees and groups of trees were inventoried within this section. The individual trees noted in this section were not included in a tree group due to their geographical distance from the tree groupings inventoried. The tree groupings were formulated based on geographical location.

### 588 Charlotte Street

- Strip Providing Access to Charlotte Street Section
  - Individual trees were inventoried in this section because there were no tree groupings, and the trees in this section are of significant age.
- North Section
  - Individual trees and groups of trees were inventoried within this section. The individual trees noted in this section were not included in a tree group due to their geographical distance from the tree grouping inventoried. The tree grouping inventoried, Group 4, is a mass planting intended to provide screening for the Weatherstone Court subdivision.
- Southeast Section
  - Individual trees and groups of trees were inventoried within this section. The individual trees noted in this section were not included in a tree group due to their geographical distance from the tree groupings inventoried, and the trees are of significant age. The tree groupings were formulated based on geographical location.



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Description of the Study Area.  
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## 3.0 DESCRIPTION OF THE STUDY AREA.

### 3.1 200 JOHN STREET EAST

The 200 John Street East property is an irregularly shaped parcel of land that can be accessed via John Street East. The property borders 210 John Street east and 240 John Street east to the east, 588 Charlotte Street, 144 John Street East, 176 John Street East, and the residential subdivisions along Weatherstone Court and Christopher Street to the west, and the Upper Canada Heritage Trail (formerly the Erie and Ontario Railway line) to the south. The tree inventory for 200 John Street East will be described in three sections as illustrated in Appendix D and as listed: Linear Strip Access, Northwest Section, and Southeast Section.

#### 3.1.1 Linear Strip Accessed via John Street East

200 John Street East is accessed via a linear strip of land 66 feet (20.1 metres) wide located along John Street East. The access entrance is between 176 John Street East and 210 John Street East. The linear strip of land that provides access to 200 John Street East consists of a mix of both coniferous and deciduous tree and shrub species. There were 47 trees inventoried within the property lines of this section, and 34 inventoried within a 6 metre buffer along the adjacent properties. The trees inventoried in this area range from 10 to 100 years of age. Of the trees inventoried 44 were classified as natural and 35 were classified as cultural/planted. Horsechestnut (*Aesculus hippocastanum*), White Pine (*Pinus strobus*), Norway Spruce (*Picea abies*), Honey Locust (*Gleditsia triacanthos*), Black Walnut (*Juglans nigra*), Big Shell Bark Hickory (*Carya laciniata*) species were documented as 80-100 years old and cultural/planted.

**Table 2 Tree Inventory: Linear Strip Accessed via John Street East Section, 200 John Street East**

Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
2	<i>Pinus strobus</i>	White Pine	36	2	5	C	30
3	<i>Pinus sylvestris</i>	Scots Pine	Tree has been removed (Dead).				
4	<i>Pinus sylvestris</i>	Scots Pine	38	0	6	C	30
5	<i>Fraxinus americana</i>	White Ash	38	0	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



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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
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
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
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



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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
45	<i>Picea abies</i>	Norway Spruce	62	3	12	C	100
46	<i>Juglans nigra</i>	Black Walnut	27	3	6	N	15
47	<i>Quercus rubra</i>	Red Oak	29	2	8	N	25
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
8A	<i>Prunus serotina</i>	Black Cherry	54	1	7	N	30
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
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 dioica</i>	Kentucky Coffee-Tree	45	3	8	C	40
19A	<i>Gymnocladus dioica</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





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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
29A	<i>Quercus alba</i>	White Oak	43	3	9	C	50
30A	<i>Picea abies</i>	Norway Spruce	78	3	13	C	100
31A	<i>Carya laciniosa</i>	Big Shell Bark Hickory	55	3	11	N	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

### 3.1.2 Northwest Section

The northwest section of 200 John Street East contains the pool area and a couple groupings of tree species. There were 57 trees inventoried within the property lines of this section, and 6 inventoried within a 6 metre buffer along the adjacent properties. Within this section, 54 trees were categorized as cultural and 12 natural. The following species were categorized as cultural and documented between ages 80-100: White Pine (*Pinus strobus*), Big Shell Bark Hickory (*Carya laciniosa*), Eastern White Cedar (*Thuja occidentalis*), Scots Pine (*Pinus sylvestris*), Austrian Pine (*Pinus nigra*), and Boxwood (*Buxus sp.*).

The north corner of this section has a pool area that is bordered to the south with Purple Plum (*Prunus pissardii nigra*), Group 6. At the 66ft access the pool entrance is framed by two Eastern White Cedars (*Thuja occidentalis*) (trees 57 and 58), both approximately 100 years of age. Within the pool area the Tea House is cornered by four Boxwoods (*Buxus sp.*) (BW1, BW2, BW3, BW4), all approximately 100 years of age. To the south of the pool area there is a row of Austrian pine (*Pinus nigra*) and Scots pine trees (*Pinus sylvestris*).

Between the Calvin Rand summer house, the carriage house and the 176 John Street East property there is a buffer of plantings identified as Group 5. Group 5 is comprised of a grove of Lilac species (*Syringa sp.*) approximately 100 years old. Within this area there is also a row of Rose of Sharon (*Hibiscus syriacus*), and a row of cedar (*Platycladus orientalis*).

**Table 3: Tree Inventory, Northwest Section, 200 John Street East**

Tag #	Botanical Name	Common Name	DBH (cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx . Age
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



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**Table 3: Tree Inventory, Northwest Section, 200 John Street East**

Tag #	Botanical Name	Common Name	DBH (cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
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
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
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
60A	<i>Ulmus pumila</i>	Siberian Elm	36	2	8	N	30



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

Description of the Study Area.  
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**Table 3: Tree Inventory, Northwest Section, 200 John Street East**

Tag #	Botanical Name	Common Name	DBH (cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx . Age
61A	<i>Ulmus pumila</i>	Siberian Elm	40	2	8	N	30
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
Group 5	Refer to Table 17						
Group 6	Refer to Table 17						

## 3.1.3 Southeast Section

The Southeast section of 200 John Street East is predominantly an open field with low growing herbaceous material. The trees inventoried are primarily along the borders this section. There are three main groupings identified within this section.

The north grouping bordering 210 John Street, is Group 1. Group 1 consists of one Cottonwood (*Populus deltoides*), 49 % White Ash (*Fraxinus americana*), and 49% Silver Maple (*Acer saccharinum*). This grouping is approximately 30 years in age.

The east grouping borders 210 John Street East and 240 John Street East, identified at Group 2. This grouping contains trees in various stages of growth ranging from 20-150 years, including: 20% White Oak (*Quercus alba*), 5% Hawthorn (*Crataegus sp.*), 10% White Ash (*Fraxinus americana*), 5% Elm (*Ulmus americana*), 35% Shagbark Hickory (*Carya ovata*), 5% Pin Oak (*Quercus palustris*), 5% Cottonwood (*Populus deltoides*), 5% Black Cherry (*Prunus serotina*), 5% Linden (*Tilia americana*), 5% Honey Locust (*Gleditsia triacanthos*). The understory of this grouping is less dense and is easily accessible on foot.

The south grouping bordering the Upper Canada Trail is identified as Group 3. Group 3 consists of trees ranging from 20-75 years of age. The trees within this grouping comprise of the following species: 7% White Pine (*Pinus strobus*), 3% Norway Spruce (*Picea abies*), 65% White Ash (*Fraxinus americana*), 10 % White Oak (*Quercus alba*), 10% Pin Oak (*Quercus palustris*), and 5% Black Walnut (*Juglans nigra*).



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Description of the Study Area.  
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**Table 4: Tree Inventory, Southeast Section, 200 John Street East**

Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
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
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
Group 1A	Refer to Table 17						
Group 1	Refer to Table 17						
Group 2	Refer to Table 17						
Group 3	Refer to Table 17						

## 3.2 588 CHARLOTTE STREET

### 3.2.1 Introduction

The 588 Charlotte Street property borders 200 John Street East to the east, Charlotte Street and the residential subdivisions along Weatherstone Court and Christopher Street to the west, 144 John Street East to the north, and the Upper Canada Heritage Trail to the south. The property can be accessed via a gated strip of land found along Charlotte Street. The tree inventory for 588 Charlotte Street will be described in three sections as illustrated in Appendix D and as listed: Strip Providing Access to Charlotte Street Section, North Section, and South Section.

### 3.2.2 Strip Providing Access to Charlotte Street Section

The Strip Providing Access to Charlotte Street section of 588 Charlotte provides access to the entire site via a gate along Charlotte Street. There were 4 trees inventoried within this section of the property, and one tree inventoried within a 6m buffer on the adjacent property along Weatherstone Court. There are two significant trees within this section of the property, trees 71 and 72. Both trees 71 and 72 are White oaks (*Quercus alba*), approximately 175 to 250 years old respectively. The north part of this section bordering the residential subdivision at Weatherstone Court is screened by a row of White cedar (*Thuja occidentalis*).



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Description of the Study Area.  
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**Table 5: Tree Inventory, Strip Providing Access to Charlotte Street, 588 Charlotte Street**

Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
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
66A	<i>Juglans regia</i>	Persian Walnut	55	3	12	C	40

## 3.2.3 North Section

The north section of 588 Charlotte Street borders Weatherstone Court to the west. There is a grouping of trees, Group 4, which provides a privacy screen between both properties. Group 4 is approximately 27 years old consisting of: 80% Austrian Pine (*Pinus nigra*), 5% Blue Spruce (*Picea pungens*), 5% White Pine (*Pinus strobus*), 2% Siberian Elm (*Ulmus pumila*), 3% Scots Pine (*Pinus sylvestris*), 3% White Spruce (*Picea glauca*), 2% Pussy Willow (*Salix discolor*). The remainder of the north section consists of lower herbaceous grass material.

**Table 6: Tree Inventory, North Section, 588 Charlotte Street**

Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
77	<i>Pinus nigra</i>	Austrian Pine	33	1	4	C	20
78	<i>Ulmus pumila</i>	Siberian Elm	30	2	4	N	20
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
Group 4	Refer to Table 17						

## 3.2.4 South Section

The south section of 588 Charlotte Street consists of 6 inventoried trees all categorized as natural. The trees inventoried in this section are located along the south border lining the Upper Canada Heritage Trail. Of the 6 trees inventoried in this section 3 are of a significant age: tree 72 White Oak (*Quercus alba*) is approximately 125 years old; tree 73 Red Oak (*Quercus rubra*) is approximately 225 years old; and tree 75 White Oak (*Quercus alba*) is approximately 125 years old.



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**Table 7: Tree Inventory: South Section, 588 Charlotte Street**

Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy Dripline Diameter (m)	Cultural (C) or Natural (N)	Approx. Age
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

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

Summary of Findings  
June 28, 2021

## 4.0 SUMMARY OF FINDINGS

This report was prepared for the Conservation Review Board (CRB) for the 200 John Street East and 588 Charlotte Street properties. The purpose of this report is to provide supporting information for the Stantec Cultural Heritage Landscape team to aid in their determination what vegetation on the property can be attributed to the Dunington and Grubb canon.

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.

**Table 8: Summary of Inventory**

Item	Description	Quantity
1	Total Number of Individual Trees Inventoried	176
2	Total Tree Groups Inventoried	8
3	Total Number of Trees Inventoried on Adjacent Properties	61
4	Total Number of Inventoried Cultural Trees on Subject Properties	79
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

The following sections outline observations.

### 4.1 200 JOHN STREET EAST

#### 4.1.1 Linear Strip Accessed via John Street East Section

**Table 9: Summary of Findings, Linear Strip Accessed via John Street East Section, 200 John Street East**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	80	100
2	Total Number of Naturally Occurring Trees	46	57.5
3	Total Number of Planted/Cultural Trees	34	42.5
4	Total Number of Trees Approximately 100 years and older	21	26.25
5	Total Number of Tree Groupings	0	N/A



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

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Due to the higher percentage of naturally occurring trees the linear strip access via John Street East is not believed to be a man-made landscape.

### 4.1.2 Northwest Section

**Table 10: Summary of Findings, Northwest Section, 200 John Street East**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	67	100
2	Total Number of Naturally Occurring Trees	12	18
3	Total Number of Planted/Cultural Trees	54	80.5
4	Total Number of Trees Approximately 100 years and older	11	16.5
5	Total Number of Tree Groupings	2	N/A

Due to the percentage of planted/cultural trees this section it is believed to be a man-made landscape. The north corner of this section contains a man-made pool area that is bordered to the south by Group 6. The pool area is a man-made landscape.

### 4.1.3 Southeast Section

**Table 11: Summary of Findings, Southeast Section, 200 John Street East**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	6	100
2	Total Number of Naturally Occurring Trees	6	100
3	Total Number of Planted/Cultural Trees	0	0
4	Total Number of Trees Approximately 100 years and older	0	0
5	Total Number of Tree Groupings	4	N/A

Due to the percentage of naturally occurring trees the southeast section of 200 John Street East is not believed to be a man-made landscape.

## 4.2 588 CHARLOTTE STREET

### 4.2.1 Strip Providing Access to Charlotte Street Section

**Table 12: Summary of Findings, Strip Providing Access to Charlotte Street Section, 588 Charlotte Street**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	4	100
2	Total Number of Naturally Occurring Trees	3	75
3	Total Number of Planted/Cultural Trees	1	25





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

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4	Total Number of Trees Approximately 100 years and older	2	50
5	Total Number of Tree Groupings	0	N/A

Due to the percentage of naturally occurring trees the strip providing access to Charlotte Street section is not believed to be a man-made landscape. However, the two trees older than 100 years old are significant, and preservation should be highly considered.

### 4.2.2 North Section

**Table 13: Summary of Findings, North Section, 588 Charlotte Street**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	16	100
2	Total Number of Naturally Occurring Trees	11	68.75
3	Total Number of Planted/Cultural Trees	5	31.25
4	Total Number of Trees Approximately 100 years and older	0	0
5	Total Number of Tree Groupings	1	N/A

Due to the percentage of naturally occurring trees this not believed to be a man-made landscape. However, Group 4 is believed to be planted/cultural to provide screening for the Weatherstone Court properties.

### 4.2.3 South Section

**Table 14: Summary of Findings, Southeast Section, 200 John Street East**

Item	Description	Quantity	Percentage
1	Total Number of Individual Trees Inventoried	6	100
2	Total Number of Naturally Occuring Trees	6	100
3	Total Number of Planted/Cultural Trees	0	0
4	Total Number of Trees Approximately 100 years and older	3	50
5	Total Number of Tree Groupings	0	N/A

Due to the percentage of naturally occurring trees this not believed to be a man-made landscape. However, the three trees older than 100 years old are significant.



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

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## 4.2.4 Tree Groupings Summary

**Table 15 Summary of Tree Grouping**

Tree Group	General Composition: Planted/Cultural or Naturally Occurring	Approx Age of Grouping
1A	Natural Occuring	75-100
1	Natural Occuring	30
2A	Natural Occuring	20-50
2	Natural Occuring	20-150
3	Natural Occuring	20-75
4	Planted/Cultural	27
5	Planted/Cultural	Existing trunks 30 years, possible regeneration
6	Planted/Cultural	40

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**").
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**").



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

Disclaimer  
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## 5.0 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 except where noted for the dead limb of a purple plum and previously removed juniper, 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**

## 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**

Table 16: Individually Inventoried Trees

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	Tree has been removed (Dead).				
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</i> sp.	Cypress	42	3	5	C	40
112	<i>Taxus cuspidata</i>	Japanese Yew	21	2	5	C	40
147	<i>Gymnocladus dioicus</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</i> sp.	Cypress	26	3	4	C	20
63A	<i>Chamaecyparis</i> sp.	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
66A	<i>Juglans regia</i>	Persian Walnut	55	3	12	C	40
BW1	<i>Buxus</i> sp.	Boxwood	19 & 14	3		C	100
BW2	<i>Buxus</i> sp.	Boxwood	31	3		C	100
BW3	<i>Buxus</i> sp.	Boxwood	15	3		C	100
BW4	<i>Buxus</i> sp.	Boxwood	16	3		C	100




Table 17: Inventoried Tree Groupings

Group #	Botanical Name	Common Name	Percentage	Approximate Age (Years)
1A	<i>Carya laciniosa</i>	Shell bark Hickory	98	75-100
	<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</i> sp.	Sweet Cherry	2	
	<i>Pyrus</i> sp.	Pear	1	
	<i>Carya ovata</i>	Hickory	5	
	<i>Ulmus americana</i>	Elm	10	
	<i>Juglans nigra</i>	Black Walnut	20	
	<i>Acer negundo</i>	Manitoba Maple	10	
2	<i>Quercus alba</i>	White Oak	20	20-150
	<i>Crataegus</i> sp.	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	
5	<i>Salix discolor</i>	Pussy Willow	2	Existing trunks 30 years, possible regeneration
	<i>Syringa</i> sp.	Lilac	100	
6	<i>Prunus pissardii nigra</i>	Purple Plum	100	40




# **APPENDIX C**

## **Photographic Inventory**



Tag #	Botanical Name	Common Name	Tree Photo	
1A	<i>Juglans nigra</i>	Black Walnut		 A photograph of a Black Walnut tree (Juglans nigra) with a thick, dark trunk and a wide, spreading canopy of bare branches against a blue sky with light clouds. The tree is surrounded by other trees in a forest setting.
2A	<i>Juglans nigra</i>	Black Walnut		 A photograph of a Black Walnut tree (Juglans nigra) with a thick, dark trunk and a wide, spreading canopy of bare branches against a blue sky with light clouds. The tree is surrounded by other trees in a forest setting.
3A	<i>Quercus alba</i>	White Oak		 A photograph of a White Oak tree (Quercus alba) with a thick, light-colored trunk and a canopy of bare branches against a blue sky with light clouds. The tree is surrounded by other trees in a forest setting.
4A	<i>Carya laciniosa</i>	Big Shell Bark Hickory		 A photograph of a Big Shell Bark Hickory tree (Carya laciniosa) with a thick, light-colored trunk and a canopy of bare branches against a blue sky with light clouds. The tree is surrounded by other trees in a forest setting.

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			



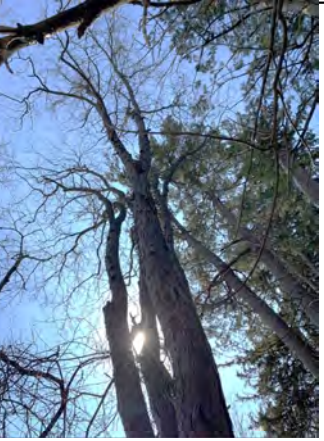

29A	<i>Quercus alba</i>	White Oak			
30A	<i>Picea abies</i>	Norway Spruce			
29	<i>Aesculus hippocastanum</i>	Horsechestnut			
30	<i>Tilia cordata</i>	Little Leaf Linden			

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			

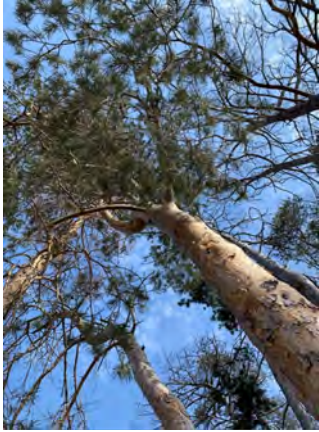

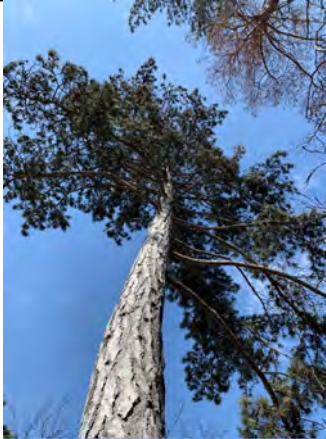

55	<i>Pinus sylvestris</i>	Scots Pine			
56	<i>Carya laciniosa</i>	Big Shell Bark Hickory			
57	<i>Thuja occidentalis</i>	Eastern White Cedar			
58	<i>Thuja occidentalis</i>	Eastern White Cedar			

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			


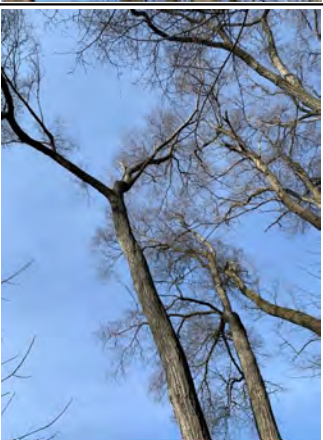




41A	<i>Pinus nigra</i>	Austrian Pine			
42A	<i>Pinus nigra</i>	Austrian Pine			
43A	<i>Pinus nigra</i>	Austrian Pine			
44A	<i>Pinus nigra</i>	Austrian Pine			




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			

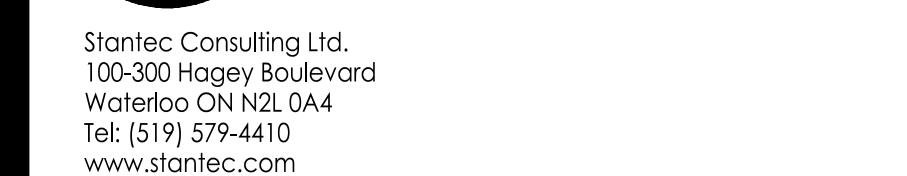
63A	<i>Chamaecyparis</i> <i>sp.</i>	Cypress			
64A	<i>Acer platanoides</i>	Norway Maple			
65A	<i>Acer platanoides</i>	Norway Maple			
BW1	<i>Buxus sp.</i>	Boxwood			

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

# **APPENDIX D**

## **Tree Inventory Plans**





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



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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                                   |

[illegible]

Revision/Issue	By	Appd	YYYY.MM.DD
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File Name: 161414045_I-TM	K8	DW/WB	2021.04.09
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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	Drawing No.
	1 of 8	L 800

**L-900**



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ORIGINAL SHEET - ARCH D





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expert tree care

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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

Revision/Issue By Appd YYYY.MM.DD

File Name: 161414045\_LTM KB DW/RB 2021\_04/09  
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NIAGARA-ON-THE-LAKE

ONTARIO, CANADA

Title

**EXISTING TREE INVENTORY PLAN**  
Linear Strip Accessed via John Street East  
Section, 200 John Street East

Project No. Scale  
161414045 1:500

Revision Sheet Drawing No.  
2 of 8 L-900A



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Tel: (519) 579-4410  
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



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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                                   |

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Revision/Issue	By	Appd	YYYY.MM.DD
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File Name: 161414045-L-TM	KB	DW/WB	2021.04.09
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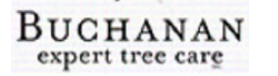
ONTARIO, CANADA

Title  
EXISTING TREE INVENTORY PLAN  
Northwest Section, 200 John Street East

Project No.	Scale
161414045	1:300

Revision	Sheet	Drawing No.
	3 of 8	<b>I 800B</b>















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Key Map      NTS.



- |   |   |
|---|---|
|    | 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                                   |

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

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ONTARIO, CANADA

Title  
EXISTING TREE INVENTORY PLAN  
Southeast Section, 200 John Street East

Project No.	Scale
161414045	1:750

Revision Sheet  
4 of 8

# L-900C



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ORIGINAL SHEET - ARCH D















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Key Map      NTS.



- |   |   |
|---|---|
|    | 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 Trees Within 5m on Adjacent Properties  |
|  | Tree Grouping                                   |

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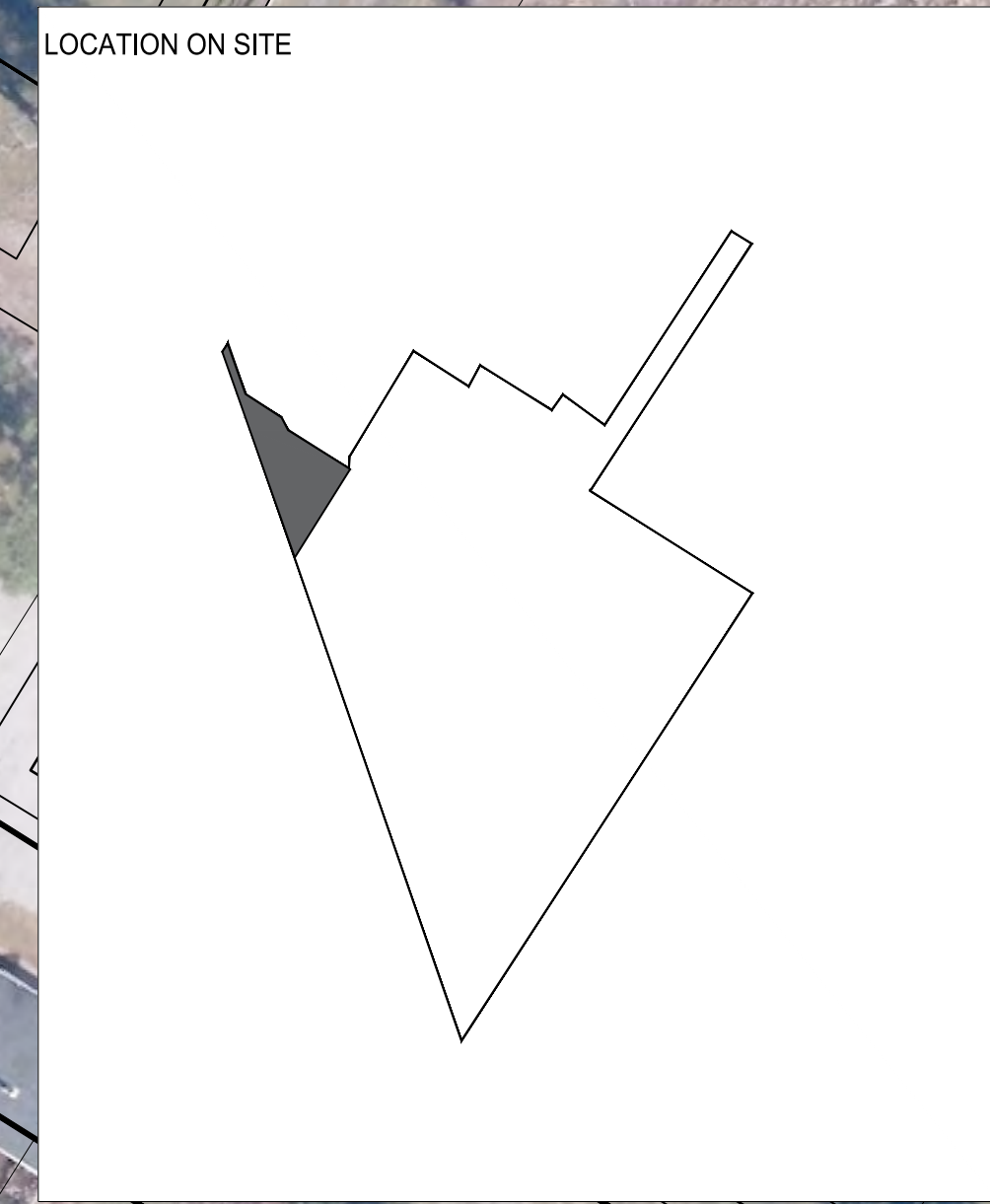
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NIAGARA-ON-THE-LAKE  
ONTARIO, CANADA

Title  
EXISTING TREE INVENTORY PLAN  
Strip Providing Access to Charlotte Street  
Section, 588 Charlotte Street

Project No.	Scale
161414045	1:300

Revision	Sheet	Drawing No.
	4 of 8	L-900D







- 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

Revision/Issue By Appd YYYY.MM.DD

File Name: 161414045\_L-1M K8 DW/WB 2021.04.09  
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ONTARIO, CANADA

Title  
**EXISTING TREE INVENTORY PLAN**  
North Section, 588 Charlotte Street

Project No. 161414045 Scale 1:250

Revision Sheet 5 of 8 Drawing No. **L-900E**





- 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 Trees Within 5m on Adjacent Properties
  - Tree Grouping


Revision/Issue	By	Appd	YYYY.MM.DD
File Name: 161414045_LTM	K8	DW/WB	2021.04.09
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ONTARIO, CANADA

Title  
EXISTING TREE INVENTORY PLAN  
South Section, 588 Charolette Street

Project No.	Scale
161414045	1:500
Revision	Sheet
	5 of 8
Drawing No.	
	<b>L-900F</b>



Tag #	Botanical Name	Common Name	DBH(cm)	Health (Overall Condition)	Canopy DripLine Diameter (m)	Cultural (C) or Natural (N)	Age
1A	Juglans nigra	Black Walnut	83	3	13	N	100
2A	Juglans nigra	Black Walnut	59	3	11.5	N	40
3A	Quercus alba	White Oak	41	3	5.5	N	40
4A	Carya laciniosa	Big Shell Bark Hickory	43	3	11.5	N	100
5A	Pinus strobus	White Pine	37	3	6	N	20
6A	Pinus strobus	White Pine	44	2	10	N	40
7A	Pinus strobus	White Pine	49	2	7	N	40
1	Gleditsia triacanthos	Honey Locust	73	3	13	N	100
2	Pinus strobus	White Pine	36	2	5	C	30
3	Pinus sylvestris	Scots Pine	38	1	5	C	30
4	Pinus sylvestris	Scots Pine	38	0	6	C	30
5	Fraxinus americana	White Ash	38	0	/	N	30
8A	Prunus serotina	Black Cherry	34	1	/	N	30
6	Pinus strobus	White Pine	56	2	8	C	30
7	Betula papyrifera	Paper Birch	28	2	4	N	20
8	Betula papyrifera	Paper Birch	29	2	6	N	20
9	Acer saccharinum	Silver Maple	32	3	6	N	20
10	Aesculus hippocastanum	Horsechestnut	22	3	6	N	20
11	Pinus strobus	White Pine	50	2	7	C	40
12	Pinus strobus	White Pine	48	2	7	C	40
13	Pinus strobus	White Pine	24	1	4	C	30
14	Allanthus altissima	Tree of Heaven	31	1	4	N	10
15	Fraxinus americana	White Ash	96	0	10	N	70
16	Pinus strobus	White Pine	31	0	3	C	30
17	Salix nigra	Black Willow	101	1	8	C	50
18	Pinus strobus	White Pine	57	2	8	N	40
19	Pinus strobus	White Pine	42	2	4	N	20
20	Pinus strobus	White Pine	88	3	12	C	100
21	Pinus serotina	Black Cherry	60	3	3	N	50
7A	Carya laciniosa	Big Shell Bark Hickory	30	3	25	N	40
10A	Juglans nigra	Black Walnut	44	2	9	N	40
11A	Picea abies	Norway Spruce	39	2	5	N	40
12A	Quercus rubra	Red Oak	46	3	8	C	40
13A	Aesculus hippocastanum	Horsechestnut	22	1	4	N	20
14A	Prunus serotina	Black Cherry	38	1	3	N	30
22	Pinus serotina	Black Cherry	89	1	8	C	60
23	Allanthus altissima	Tree of Heaven	79	0	4	N	40
15A	Allanthus altissima	Tree of Heaven	24	1	3	N	10
16A	Allanthus altissima	Tree of Heaven	34	1	5	N	20
17A	Allanthus altissima	Tree of Heaven	29	1	5	N	20
18A	Gymnocladus dioica	Kentucky Coffee Tree	45	3	8	C	40
19A	Gymnocladus dioica	Kentucky Coffee Tree	25	2	5	N	20
20A	Juglans nigra	Black Walnut	31	0	20	N	20
21A	Allanthus altissima	Tree of Heaven	34	1	5	N	20
22A	Juglans nigra	Black Walnut	26	2	6	N	20
23A	Quercus rubra	Red Oak	28	2	7	N	15
24A	Allanthus altissima	Tree of Heaven	21	2	5	N	10
25A	Juglans nigra	Black Walnut	31	3	6	N	20
26A	Acer platanoides	Norway Maple	36	1	5	C	20
27A	Juglans nigra	Black Walnut	63	3	15	N	60
28A	Quercus rubra	Red Oak	57	3	11	N	40
24	Allanthus altissima	Tree of Heaven	24	1	5	N	20
25	Aesculus hippocastanum	Horsechestnut	76	2	13	C	100
26	Aesculus hippocastanum	Horsechestnut	59	2	8	C	100
27	Pinus strobus	White Pine	80	3	12	C	100
28	Picea abies	Norway Spruce	74	3	9	C	100
29A	Quercus alba	White Oak	43	3	9	C	100
30A	Picea abies	Norway Spruce	28	3	13	C	100
29	Aesculus hippocastanum	Horsechestnut	79	0	2	C	100
30	Tilia cordata	Little Leaf Linden	24	2	7	C	20
31	Abies pseudotsuga	Douglas Fir	43	2	4	C	100
32	Tilia cordata	Little Leaf Linden	29	3	6	C	20
33	Picea abies	Norway Spruce	73	3	11	C	100
34	Picea abies	Norway Spruce	61	2	9	C	100
35	Aesculus hippocastanum	Horsechestnut	75	1	10	C	100
36	Abies pseudotsuga	Douglas Fir	25	2	3	C	20
37	Abies pseudotsuga	Douglas Fir	25	2	3	C	20
38	Pinus strobus	White Pine	50	0	0	C	100
39	Pinus strobus	White Pine	51	2	6	C	100
40	Pinus strobus	White Pine	45	2	6	C	100
41	Aesculus hippocastanum	Horsechestnut	27	1	4	N	20
42	Picea abies	Norway Spruce	63	3	8	C	100
43	Picea abies	Norway Spruce	47	3	6	C	100
44	Picea abies	Norway Spruce	66	3	14	C	100
31A	Carya laciniosa	Big Shell Bark Hickory	55	3	11	N	100
45	Picea abies	Norway Spruce	62	3	12	C	100
32A	Juglans nigra	Black Walnut	59	3	16	N	75
33A	Ulmus americana	American Elm	25	1	5	N	15
34A	Fraxinus americana	White Ash	22	0	0	N	10
46	Juglans nigra	Black Walnut	27	3	6	N	15
47	Quercus rubra	Red Oak	29	2	8	N	25
48	Prunus serotina	Black Cherry	35	1	6	N	30
49	Pinus strobus	White Pine	70	2	11	C	100
50	Juglans nigra	Black Walnut	36	2	10	N	25
51	Pinus sylvestris	Scots Pine	48	2	8	C	50
52	Pinus nigra	Austrian Pine	32	1	5	C	50
53	Pinus nigra	Austrian Pine	45	0	7	C	50
54	Pinus sylvestris	Scots Pine	46	2	7	C	50
55	Pinus sylvestris	Scots Pine	34	1	4	C	50
56	Carya laciniosa	Big Shell Bark Hickory	60	3	16	N	100
57	Thuja occidentalis	Eastern White Cedar	47	2	4	C	100
58	Thuja occidentalis	Eastern White Cedar	41	2	4	C	100
59	Pinus sylvestris	Scots Pine	53	2	6	C	100
60	Pinus nigra	Austrian Pine	46	0	5	C	100
61	Pinus sylvestris	Scots Pine	39	1	5	C	100
35A	Juglans nigra	Black Walnut	35	1	5	N	15
36A	Carya laciniosa	Big Shell Bark Hickory	43	3	7	N	75
37A	Carya laciniosa	Big Shell Bark Hickory	42	3	7	N	75

TREE INVENTORY CONDUCTED ON MARCH 8TH & 10TH 2021 BY:  
BILL BUCHANAN, HBSCFORESTRY, ISA BOARD CERTIFIED MASTER ARBORIST NY-0392B  
DAVID WAVERMAN, CSLA, OALA, CAHP  
FRANK SMITH, MA  
KIMBERLEY BEECH, MLA



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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


Revision/Issue	By	Appd	YYYY.MM.DD

File Name:	161414045_LTM	K8	DW/WB	2021.04.09
		Dwn.	Dsgn.	Chkd.

Permit-Seal

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Client/Project  
SOLMAR

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

ONTARIO, CANADA

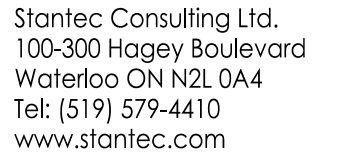
Title

EXISTING TREE INVENTORY PLAN  
TREE INVENTORY CHARTS

Project No.	Scale
161414045	

Revision	Sheet	Drawing No.
	6 of 8	

**L-900G**



Key Map NTS.



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ONTARIO, CANADA

Revision	Sheet	Drawing No.
	7 of 7	<b>L 900H</b>

Group #	Botanical Name	Common Name	Percentage	Approximate Age (Years)
1A	<i>Carya laciniosa</i>	Shell bark Hickory	98	75-100
	<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	
	<i>Fraxinus americana</i>	White Ash	35	
2A	<i>Quercus alba</i>	White Oak	15	20-50
	<i>Tilia americana</i>	Linden	2	
	<i>Prunus</i> sp.	Sweet Cherry	2	
	<i>Pyrus</i> sp.	Pear	1	
	<i>Carya ovata</i>	Hickory	5	
	<i>Ulmus americana</i>	Elm	10	
	<i>Juglans nigra</i>	Black Walnut	20	
	<i>Acer negundo</i>	Manitoba Maple	10	
	<i>Quercus alba</i>	White Oak	20	
	<i>Crataegus</i> sp.	Hawthorn	5	
2	<i>Fraxinus americana</i>	White Ash	10	20-150
	<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	
	<i>Juglans nigra</i>	Black Walnut	5	
4	<i>Pinus nigra</i>	Austrian Pine	80	27
	<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</i> sp.	Lilac	100	Existing trunks 30 years, possible regeneration
6	<i>Prunus pissardii nigra</i>	Purple Plum	100	40

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