

**Tree Inventory and Preservation Plan Report
12909 Kennedy Road
Caledon, Ontario**

prepared for

**Candevcon Group Inc.
9358 Goreway Drive
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prepared by



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KUNTZ FORESTRY CONSULTING INC Project P4232

Introduction

Kuntz Forestry Consulting Inc. was retained by Candevcon Group Inc. to complete a Tree Inventory and Preservation Plan Report as part of a development application for the property located at 12909 Kennedy Road in the Town of Caledon, Ontario. The subject property is located at the southeast corner of Kennedy Road and Old School Road, within an agricultural area.

The work plan for this study included the following:

- Prepare inventory of the tree resources over 10cm diameter at breast height (DBH) on and within six metres of the disturbance limit and trees of all sizes within the Town road right-of-way;
- Evaluate tree saving opportunities based on proposed site plans; and,
- Document the findings in a Tree Inventory and Preservation Plan report.

The results of the evaluation are provided below.

Methodology

The tree inventory was conducted on 10 June 2024. Trees greater than 10cm DBH on and within six metres of the disturbance limit and trees of all sizes within the Town road right-of-way were included in the tree inventory. Trees were located using KFCI's Trimble GPS unit with an accuracy of +/- 30cm. Trees included in the inventory were tagged using the numbers 414-499, 500, 501, and 664-700. Trees on the subject property that could not be tagged were identified as Trees A-H. Trees on neighbouring properties were identified using the numbers 1-50. Five (5) polygons (groups of trees) were identified as P1-P5. Refer to Table 1 for the results of the inventory and Figure 1 for the locations of the trees. See Appendix A for photographs of the trees.

Individual tree resources were visually assessed for condition utilizing the following parameters:

Tree # – Number assigned to trees that corresponds to Figure 1.

Species – Common and botanical names provided in the inventory table.

DBH – Diameter (centimeters) at breast height, measured at 1.4 m above the ground.

Condition – Condition of tree considering trunk integrity (TI), crown structure (CS) and crown vigor (CV). Condition ratings include poor (P), fair (F), and good (G).

Crown Dieback – Percentage of dead branches within the crown.

Dripline – Radius of crown in metres.

Comments – Any other relevant tree condition information.

Existing Site Conditions

The subject property is currently occupied by agricultural lands with a detached house, multiple barns, sheds, and a gravel driveway providing access to Kennedy Road. Natural Heritage System land passes through the north corner of the property. Tree resources exist in the form of landscape and naturally-occurring trees. Refer to Figure 1 for the existing site conditions.

Individual Tree Resources

The inventory documented 183 trees and five (5) polygons on and within six metres of the disturbance limit.

Tree resources were comprised of Austrian Pine (*Pinus nigra*), Black Walnut (*Juglans nigra*), Blue Spruce (*Picea pungens*), Copper Beech (*Fagus sylvatica*), Eastern Cottonwood (*Populus deltoides*), Eastern White Cedar (*Thuja occidentalis*), English Walnut (*Juglans regia*), Freeman Maple (*Acer x freemanii*), Honey Locust (*Gleditsia triacanthos 'inermis'*), Manitoba Maple (*Acer negundo*), Norway Maple (*Acer platanoides*), Norway Spruce (*Picea abies*), Pear (*Pyrus spp.*), Red Maple (*Acer rubrum*), Scots Pine (*Pinus sylvestris*), Shagbark Hickory (*Carya ovata*), Silver Birch (*Betula pendula*), Silver Maple (*Acer saccharinum*), Sugar Maple (*Acer saccharum*), Trembling Aspen (*Populus tremuloides*), White Birch (*Betula papyrifera*), White Fir (*Abies concolor*), White Mulberry (*Morus alba*), White Pine (*Pinus strobus*), White Spruce (*Picea glauca*), and Willow (*Salix spp.*)

Proposed Development

The proposed development includes the demolition of the existing house, barns, and sheds, and the construction of a residential subdivision with public roads, a park, and a storm water management pond. Refer to Figure 1 for the proposed development.

Discussion

The following sections provide a discussion and analysis of development impacts, tree removal requirements and tree preservation relative to the proposed development.

Development Impacts/Tree Removals

The removal of 146 trees and two (2) polygons will be required to accommodate the proposed development. These trees directly conflict with proposed re-grading or significant encroachment into their minimum tree protection zones (mTPZs) would be required such that they would not be expected to tolerate the resulting injuries. Refer to Table 1 for tree removal information.

Trees 2, 9, 11-16, 18, 20, 22-34, 39-49, and P2 require removal and are located partially for fully on neighbouring property. Permission from the respective property owners will be required prior to their removal. The remainder of the trees identified for removal are located on the subject property.

Refer to Figure 1 for the location of trees identified for removal.

Tree Preservation

The preservation of 37 trees and three (3) polygons will be possible with the use of appropriate tree protection measures as indicated on Figure 1. Tree protection measures must be installed prior to the commencement of the proposed works to ensure tree resources identified for preservation are not impacted by the development. Refer to Figure 1 for the location of trees identified for preservation, prescribed tree preservation fencing, tree preservation plan notes, and the tree protection fencing detail. Refer to Table 1 for tree preservation information.

Areas within the tree protection zone shall remain undisturbed for the duration of site construction and shall not be used for the storage of excavated fill, building/construction materials, or equipment.

Dripline encroachment is required for Trees 1, 3-7, 19, 21, 36-38, and P3-P5 to accommodate construction; however, given that adequate protection is still being afforded relative to their stem diameter, they are expected to respond well to injury. The minimum tree protection zones (mTPZ) utilized in this preservation exercise are consistent with the policies implemented by numerous municipalities across southern Ontario. The mTPZs for each diameter class are outlined in the table below:

Diameter at Breast Height (DBH)	mTPZ (radius)
<10cm	1.2m
10-29cm	1.8m
31-40cm	2.4m
41-50cm	3.0m
51-60cm	3.6m
61-70cm	4.2m
71-80cm	4.8m
81-90cm	5.4m
91-100cm	6.0m
>100cm	Dripline or 12m

Prior to construction, under the supervision of a Certified Arborist, AirSpade or HydroVac technology must be utilized to excavate a trench at the proposed disturbance limits within the driplines of Trees 1, 3-7, 19, 21, 36-38, and P3-P5. Exposed roots must be pruned within the trench in accordance with Good Arboricultural Standards and the trench back filled with native soil material.

It is presumed that the entire siter will be re-graded except for the proposed park area. Preservation recommendations may change pending more detailed site plan and/or grading plan.

Tree Compensation

The Town of Caledon requires tree compensation for any healthy tree removal. The compensation ratio is below:

Diameter at Breast Height (DBH)	Compensation Ratio
<10cm	Not applicable
10-20cm	1:1
21-35cm	2:1
36-50cm	3:1
51-65cm	4:1
>65cm	5:1

To compensate for the removal of healthy trees required for removal due to the development 318 replacement trees are required. Refer to Table 1 for details.

Summary and Recommendations

Kuntz Forestry Consulting Inc. was retained by Candevcon Group Inc. to complete a Tree Inventory and Preservation Plan as part of a development application for the property located at 12909 Kennedy Road in Caledon, Ontario. A tree inventory was conducted and reviewed in the context of the proposed development plan.

The findings of the study indicate a total of 183 trees and five (5) polygons on and within six meters of the disturbance limit. The removal of 146 trees and two (2) polygons is required to accommodate the proposed development. The preservation of the remaining 37 trees and three (3) polygons will be possible with the use of appropriate tree protection measures.

The following recommendations are suggested to minimize impacts to trees identified for preservation. Refer to Figure 1 for additional Tree Protection Plan Notes and tree preservation fence detail.

- Tree protection barriers and fencing should be erected at locations as prescribed on Figure 1. All tree protection measures should follow the guidelines as set out in the tree preservation plan notes and the tree preservation fencing detail.
- No construction activity including surface treatments, excavations of any kind, storage of materials or vehicles, unless specifically outlined above, is permitted within the area identified on Figure 1 as a tree protection zone (TPZ) at any time during or after construction.
- Branches that extend beyond prescribed tree protection zones that require pruning must be pruned by a qualified Arborist or other tree professional. All pruning of tree branches must be in accordance with Good Arboricultural Standards.
- Site visits pre, during and post construction are recommended by either a certified consulting arborist (I.S.A.) or registered professional forester (R.P.F.) to ensure proper utilization of tree protection barriers. Trees should also be inspected for damage incurred during construction to ensure appropriate pruning or other measures are implemented.

Respectfully Submitted,

Kuntz Forestry Consulting Inc.

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Limitations of Assessment

Only the tree(s) identified in this report were included in the inventory. The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These may include a visual examination taken from the ground of all the above-ground parts of the tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of attack by insects, discoloured foliage, the condition of any visible root structures, the degree of lean (if any), the general condition of the trees and the identification of potentially hazardous trees or recommendations for removal (if applicable). Where trees could not be directly accessed (ie. due to obstructions, and/or on neighbouring properties), trees were assessed as accurately as possible from nearby vantage points.

Locations of trees provided in the report are determined as accurately as possible based on the best information available. If official survey information is not provided, tree location in the report may not be exact. In this case, if trees occur on or near property boundaries, an official site survey may be required to determine ownership.

Furthermore, recommendations made in this report are based on the site plans that have been provided at that time. These recommendations may no longer be applicable should changes be made to the site plan and/or grading, servicing, or landscaping plans following report submission.

Notwithstanding the recommendations and conclusions made in this report, it must be recognized that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions or seasonal variations in the weather conditions. Any tree will fail if the forces applied to the tree exceed the strength of the tree or its parts.

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.

Table 1. Tree Inventory

Location: 12909 Kennedy Rd Caledon

Date: 10 June 2024

Surveyors: IB

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	CDB	DL	mTPZ	Comments	Action	Comp
1	White Spruce	<i>Picea glauca</i>	~25	G	G	G	0	2	1.8		Preserve	
2	White Pine	<i>Pinus strobus</i>	~31	G	G	G	0	3.5	2.4		Remove	2
3	Norway Maple	<i>Acer platanoides</i>	~31	G	G	G	0	4	2.4		Preserve	
4	White Pine	<i>Pinus strobus</i>	~31	G	G	G	0	4	2.4	~3.5m from property line	Preserve	
5	Eastern White Cedar	<i>Thuja occidentalis</i>	~10	G	G	G	0	2	1.8	~2m from Property line	Preserve	
6	Eastern White Cedar	<i>Thuja occidentalis</i>	~14	G	G	G	0	2	1.8	~2m from property line	Preserve	
7	Eastern White Cedar	<i>Thuja occidentalis</i>	~15,13,10,10	F	G	G	0	2	1.8	Codominant at base	Preserve	
8	Eastern White Cedar	<i>Thuja occidentalis</i>	~16,13,10	F	G	G	0	2	1.8	Codominant at base	Preserve	
9	Eastern White Cedar	<i>Thuja occidentalis</i>	~10,9,8,7,7	F	G	G	0	2	1.8	Codominant at base	Remove	1
10	Norway Maple	<i>Acer platanoides</i>	~24	G	G	G	0	3	1.8	~3m from property line	Preserve	
11	Eastern White Cedar	<i>Thuja occidentalis</i>	~8,8,7,7,6,5	F	G	G	0	1.5	1.2	Codominant at base, on property line	Remove	
12	Eastern White Cedar	<i>Thuja occidentalis</i>	~8,8,7,7,6,5	F	G	G	0	1.5	1.2	On property line	Remove	
13	White Spruce	<i>Picea glauca</i>	~18	G	G	G	0	2.5	1.8	On property line	Remove	1
14	White Pine	<i>Pinus strobus</i>	~13	G	G	G	0	1.5	1.8		Remove	1
15	White Birch	<i>Betula papyrifera</i>	~12	G	G	G	0	2	1.8		Remove	1
16	White Birch	<i>Betula papyrifera</i>	11	G	G	G	0	1.5	1.8	On property line	Remove	1
17	White Fir	<i>Abies concolor</i>	~25	G-F	G-F	G-F	0	2	1.8	Exposed roots (L), leaning (L), asymmetrical crown (L), ~2m from property line	Preserve	
18	Eastern White Cedar	<i>Thuja occidentalis</i>	~15,10	F	G-F	G-F	0	2	1.8	Codominant at base	Remove	1
19	Norway Maple	<i>Acer platanoides</i>	~18	G	G	G	0	3	1.8		Preserve	
20	Eastern White Cedar	<i>Thuja occidentalis</i>	~16,14,9	F	G	G	0	2.5	1.8	Codominant at base	Remove	1
21	White Birch	<i>Betula papyrifera</i>	~20	G	F	G	0	2	1.8	Codominant at 1.6m	Preserve	
22	Eastern White Cedar	<i>Thuja occidentalis</i>	~17	G	G	G	0	2	1.8		Remove	1
23	Eastern White Cedar	<i>Thuja occidentalis</i>	~10,8,8	F	F	G	0	2	1.8	Codominant at base, poor form (M)	Remove	1
24	Honey Locust (shadem)	<i>Gleditsia triacanthos 'inermis'</i>	~8	G	G	G	0	2	1.2	Located at the corner of a shed on neighbouring property	Remove	
25	Eastern White Cedar	<i>Thuja occidentalis</i>	~27,17	F-P	G-F	F	0	2	1.8	Codominant at base, poor form (M)	Remove	2
26	Eastern White Cedar	<i>Thuja occidentalis</i>	~26,17	F	G-F	G-F	0	2	1.8	Codominant at base	Remove	2
27	Manitoba Maple	<i>Acer negundo</i>	~15	P	F-P	G	0	5	1.8	Leaning (H) towards property, poor form (H)	Remove	1
28	White Spruce	<i>Picea glauca</i>	~41	G	G	F	0	2	3		Remove	3
29	Black Walnut	<i>Juglans nigra</i>	~22	G	G-F	G	0	4	1.8	Asymmetrical crown (L)	Remove	2
30	Blue Spruce		~31	G	G	G	0	2.5	2.4		Remove	2
31	Silver Maple	<i>Acer saccharinum</i>	~48,45	G-F	G	G	0	6	3	Codominant at 1.3m, ingrown fence	Remove	3
32	White Spruce	<i>Picea glauca</i>	~30	G	G	G	0	2	2.4		Remove	2
33	White Spruce	<i>Picea glauca</i>	~30	G	G	G	0	2	2.4		Remove	2
34	Eastern White Cedar	<i>Thuja occidentalis</i>	~15,12	F	F	F	0	2	1.8	Codominant at base, grapevine competition	Remove	1
35	Manitoba Maple	<i>Acer negundo</i>	~48,38	F	F-P	G	0	5	3	Codominant at base, poor form (M)	Preserve	
36	Trembling Aspen	<i>Populus tremuloides</i>	~5	G	G	F	30	1	1.2	Behind board fence	Preserve	
37	Pear species	<i>Pyrus spp.</i>	~8	G	G	G	0	1.5	1.2		Preserve	
38	Copper Beech	<i>Fagus sylvatica</i>	~7	G	G	G	0	1	1.2		Preserve	
39	Eastern Cottonwood	<i>Populus deltoides</i>	~12	G	G-F	G	0	0	1.8		Remove	1
40	Manitoba Maple	<i>Acer negundo</i>	~35	P	P	G-F	0	4	2.4	Poor form (H)	Remove	2
41	Eastern Cottonwood	<i>Populus deltoides</i>	~15	G	G	G	0	3	1.8		Remove	1
42	Willow species	<i>Salix spp.</i>	~28,15,15	F	G-F	G-F	0	4	1.8	Codominant at 1m, ingrown fence	Remove	2
43	Willow species	<i>Salix spp.</i>	~17,15,12	F	G-F	G-F	0	4	1.8	Codominant at base	Remove	1
44	Eastern White Cedar	<i>Thuja occidentalis</i>	~110	G	F	G	0	4	6.6	Codominant at 1.7m, ~0.8m from property line	Remove	5
45	Eastern White Cedar	<i>Thuja occidentalis</i>	5,34,50,48,39	F	G-F	G-F	0	6	3.6	Codominant at base, leaning (L)	Remove	4
46	Eastern White Cedar	<i>Thuja occidentalis</i>	~45,45,45	G-F	G-F	G-F	0	4	3	Codominant at 1m	Remove	3

47	Eastern White Cedar	<i>Thuja occidentalis</i>	~68,50	F	F	G-F	0	3	4.2	Codominant at 1m, poor form (M)	Remove	5
48	Manitoba Maple	<i>Acer negundo</i>	~14,10	P	P	G-F	0	3	1.8	Codominant at base, leaning (H) towards property, growing through fence	Remove	1
49	Eastern White Cedar	<i>Thuja occidentalis</i>	~52,50	G-F	F	G-F	0	4	3.6	Codominant at 1.4m	Remove	4
50	Red Maple	<i>Acer rubrum</i>	~9,7	G	G	G-F	0	2	1.2	Codominant at 1.3m	Preserve	
414	Norway Maple	<i>Acer platanoides</i>	78	G	G-F	G-F	0	6	4.8	Codominant at 1.5m	Remove	5
415	Norway Spruce	<i>Picea abies</i>	42	G	G-F	G-F	0	3.5	3	Asymmetrical crown (L)	Remove	3
416	Norway Spruce	<i>Picea abies</i>	70	G	G	G	0	4	4.2		Remove	5
417	Sugar Maple	<i>Acer saccharum</i>	58	G	G-F	F	20	5.5	3.6	Poor form (L)	Remove	4
418	Sugar Maple	<i>Acer saccharum</i>	109	F	G	G	0	8	6.6	Trunk injury (M)	Remove	5
419	Sugar Maple	<i>Acer saccharum</i>	91.5	G	G	G	0	7	6		Remove	5
420	Sugar Maple	<i>Acer saccharum</i>	95	G	G	G	0	7	6		Remove	5
421	Silver Birch	<i>Betula pendula</i>	56	G	G	G	0	6	3.6		Remove	4
422	Austrian Pine	<i>Pinus nigra</i>	23	F	F	G-F	0	3	1.8	Crook (M)	Remove	2
423	Norway Maple	<i>Acer platanoides</i>	61	G	G-F	G	0	4	4.2	Asymmetrical crown (L)	Remove	4
424	Sugar Maple	<i>Acer saccharum</i>	98	G	F	G	0	7	6	Codominant at 2m, slime flux (L)	Remove	5
425	White Pine	<i>Pinus strobus</i>	79	G	G-F	G-F	0	6	4.8		Remove	5
426	Sugar Maple	<i>Acer saccharum</i>	92	G	G	G	0	8	6		Remove	5
427	Norway Spruce	<i>Picea abies</i>	54	G	G	G	0	3.5	3.6		Remove	4
428	Norway Spruce	<i>Picea abies</i>	34	G	G	G	0	2	2.4		Remove	2
429	White Pine	<i>Pinus strobus</i>	54	G-F	G-F	G-F	0	4	3.6	Leaning (L), asymmetrical crown (L)	Remove	4
430	Scots Pine	<i>Pinus sylvestris</i>	38	G	F	G-F	0	3	2.4	Poor form (M), crook (L)	Remove	3
431	Norway Spruce	<i>Picea abies</i>	37.5	G	G	G	0	2	2.4		Remove	3
432	Norway Spruce	<i>Picea abies</i>	30	G	G	G	0	2	2.4		Remove	2
433	Scots Pine	<i>Pinus sylvestris</i>	46	G	F	G-F	0	4	3	Asymmetrical crown (M)	Remove	3
434	Scots Pine	<i>Pinus sylvestris</i>	64	G	G	G	0	4	4.2		Remove	4
435	Norway Spruce	<i>Picea abies</i>	24	G	F	G-F	0	1.5	1.8	Asymmetrical crown (H)	Remove	2
436	Norway Spruce	<i>Picea abies</i>	24	G	F	G-F	0	2.5	1.8	Asymmetrical crown (H)	Remove	2
437	Norway Spruce	<i>Picea abies</i>	55	G	G	G	0	5	3.6		Remove	4
438	Norway Spruce	<i>Picea abies</i>	87	F	G-F	G	0	3.5	5.4	Codominant at 1.5m	Remove	5
439	White Pine	<i>Pinus strobus</i>	25	G	G	G	0	3	1.8		Remove	2
440	White Pine	<i>Pinus strobus</i>	19,17	F	F-P	G-F	0	4	1.8	Codominant at 1m, poor form (H)	Remove	1
441	White Pine	<i>Pinus strobus</i>	27	G	G	G	0	3	1.8		Remove	2
442	White Pine	<i>Pinus strobus</i>	18	G	G	G	0	3	1.8		Remove	1
443	White Pine	<i>Pinus strobus</i>	20,20	G-F	G-F	G	0	2.5	1.8	Codominant at base	Remove	1
444	White Pine	<i>Pinus strobus</i>	23	G	G	G	0	3	1.8		Remove	2
445	Manitoba Maple	<i>Acer negundo</i>	15,12	F	F-P	G	0	4	1.8	Codominant at base, leaning (H), poor form (H)	Remove	1
446	Norway Spruce	<i>Picea abies</i>	11	G	G-F	F-P	60	2	1.8	suppressed crown	Remove	1
447	Norway Spruce	<i>Picea abies</i>	16	G	G	F	30	2.5	1.8		Remove	1
448	Norway Spruce	<i>Picea abies</i>	20	G	G	G	0	2	1.8		Remove	1
449	White Birch	<i>Betula papyrifera</i>	22,17,14	F-P	F	G	0	3	1.8	Codominant at base, growing directly against building	Remove	2
450	Manitoba Maple	<i>Acer negundo</i>	18	G	G	G	0	2.5	1.8		Remove	1
451	Trembling Aspen	<i>Populus tremuloides</i>	23	G	G	G	0	4	1.8		Remove	2
452	Norway Maple	<i>Acer platanoides</i>	15	G	F	G	0	3	1.8	Asymmetrical crown (M)	Remove	1
453	Trembling Aspen	<i>Populus tremuloides</i>	23	G	F	G	0	4	1.8	Asymmetrical crown (M)	Remove	2
454	Eastern White Cedar	<i>Thuja occidentalis</i>	26,22	G	F	G	0	2	1.8	Codominant at 1.2m	Remove	2
455	Eastern White Cedar	<i>Thuja occidentalis</i>	20	G	G	G	0	2	1.8		Remove	1
456	Eastern White Cedar	<i>Thuja occidentalis</i>	36,25,25	F	G	G	0	2	2.4	Codominant at base	Remove	3
457	Eastern White Cedar	<i>Thuja occidentalis</i>	34,15	G-F	G-F	G	0	2	2.4	Codominant at 1m	Remove	2
458	Eastern White Cedar	<i>Thuja occidentalis</i>	26,17	G	G-F	G	0	2	1.8	Codominant at 1.2m	Remove	2
459	Eastern White Cedar	<i>Thuja occidentalis</i>	16,15,14	F	F	G-F	0	2.5	1.8	Codominant at base, leaning (M)	Remove	1

460	Eastern White Cedar	<i>Thuja occidentalis</i>	~25,24,23	G-F	F	G-F	0	2.5	1.8	Codominant at base, lost leader (M)	Remove	2
461	Austrian Pine	<i>Pinus nigra</i>	35	G-F	G-F	G-F	0	3	2.4	Leaning (L), asymmetrical crown (L)	Remove	2
462	English Walnut	<i>Juglans regia</i>	36	G	F	G	0	4.5	2.4	Codominant at 1.6m	Remove	3
463	English Walnut	<i>Juglans regia</i>	~65	P	P	G	0	7	4.2	Codominant at 1.6m, union failure	Remove	4
464	English Walnut	<i>Juglans regia</i>	27,25,,15,15	F-P	F	G	0	5	2.4	Codominant at base, poor form (M)	Remove	2
465	Austrian Pine	<i>Pinus nigra</i>	28	G-F	G-F	G	0	2.5	1.8	ingrown fence, asymmetrical crown (L)	Remove	2
466	Austrian Pine	<i>Pinus nigra</i>	53	G	G	G	0	3	3.6		Remove	4
467	Austrian Pine	<i>Pinus nigra</i>	28,28	G	G-F	G-F	0	2	1.8	Codominant at 1.3m	Remove	2
468	Austrian Pine	<i>Pinus nigra</i>	38	G	G	G	0	3	2.4		Remove	3
469	Austrian Pine	<i>Pinus nigra</i>	29	G	F	G	0	2	1.8	Crook (M)	Remove	2
470	Austrian Pine	<i>Pinus nigra</i>	36	G	G	G	0	2.5	2.4		Remove	3
471	Austrian Pine	<i>Pinus nigra</i>	15	G-F	P	P	0	2	1.8	Bowed (H), poor form (H)	Remove	1
472	Austrian Pine	<i>Pinus nigra</i>	39	G	F-P	G	0	3	2.4	Poor form (H)	Remove	3
473	Austrian Pine	<i>Pinus nigra</i>	26	G	P	P	80	2	1.8	Poor form (H)	Remove	2
474	Austrian Pine	<i>Pinus nigra</i>	32	G	G-F	F	20	2	2.4		Remove	2
475	Austrian Pine	<i>Pinus nigra</i>	26	F	P	F	0	2.5	1.8	Lost leader (M), poor form (H), broken branches (H)	Remove	2
476	Shagbark Hickory	<i>Carya ovata</i>	21	G	G	G	0	3	1.8		Remove	2
477	Shagbark Hickory	<i>Carya ovata</i>	22	G	G	G	0	2.5	1.8		Remove	2
478	Shagbark Hickory	<i>Carya ovata</i>	20	G	G	G	0	2	1.8		Remove	1
479	Shagbark Hickory	<i>Carya ovata</i>	19	G-F	F-P	G	0	3	1.8	Leaning (L), poor form (H)	Remove	1
480	Shagbark Hickory	<i>Carya ovata</i>	19,10	G	G-F	G	0	3	1.8	Codominant at 1.3m	Remove	1
481	White Pine	<i>Pinus strobus</i>	18	G	G	G	0	2	1.8		Remove	1
482	White Pine	<i>Pinus strobus</i>	18	G	G	G	0	2	1.8		Remove	1
483	White Pine	<i>Pinus strobus</i>	~10	G	G	G	0	2	1.8		Remove	1
484	Eastern White Cedar	<i>Thuja occidentalis</i>	18,10	F	F	F	0	1.5	1.8	Codominant at 1m, poor form (M)	Remove	1
485	Manitoba Maple	<i>Acer negundo</i>	55	F-P	F-P	G-F	0	6	3.6	Leaning (H), poor form (H), epicormic branching (H)	Remove	4
486	Norway Maple	<i>Acer platanoides</i>	34	G	G-F	G	0	6	2.4	Asymmetrical crown (L)	Remove	2
487	Manitoba Maple	<i>Acer negundo</i>	17,15	G-F	F	G	0	3	1.8	Codominant at 1m	Remove	1
488	Norway Maple	<i>Acer platanoides</i>	17,13	F	F	G	0	2.5	1.8	Codominant at base, poor form (M), growing from base of garage	Remove	1
489	Manitoba Maple	<i>Acer negundo</i>	21,21,20,18,	P	P	G	0	6	1.8	Codominant at base, leaning (H), poor form (H)	Remove	2
490	Manitoba Maple	<i>Acer negundo</i>	24.5	G-F	P	F-P	80	4	1.8	Top failure (H), epicormic branching (H)	Remove	2
491	Manitoba Maple	<i>Acer negundo</i>	21	F	F-P	G-F	0	4	1.8	Leaning (M), poor form (H)	Remove	2
492	Manitoba Maple	<i>Acer negundo</i>	15	F	F-P	G-F	0	4	1.8	Leaning (M), epicormic branching (M), poor form (H)	Remove	1
493	Manitoba Maple	<i>Acer negundo</i>	20	F	F-P	G-F	0	4	1.8	Leaning (M), bowed (M), poor form (H), growing from base of shed	Remove	1
494	Manitoba Maple	<i>Acer negundo</i>	17,15	F	F	G-F	0	3	1.8	Codominant at 1m, poor form (M)	Preserve	
495	Manitoba Maple	<i>Acer negundo</i>	17,15,13	F	F	G	0	3.5	1.8	Codominant at base, poor form (M)	Remove	1
496	Manitoba Maple	<i>Acer negundo</i>	43	G	G-F	G-F	0	5	3		Remove	3
497	Manitoba Maple	<i>Acer negundo</i>	~20	G	F	F	0	3	1.8	Grapevine competition (H)	Remove	1
498	Manitoba Maple	<i>Acer negundo</i>	15,10	G-F	F	G-F	0	4	1.8	Codominant at 1m, ingrown fence	Remove	1
499	Willow species	<i>Salix spp.</i>	11	G	G	F	0	3	1.8		Remove	1
501	Eastern Cottonwood	<i>Populus deltoides</i>	26	G	G	G	0	4	1.8		Remove	2
502	Manitoba Maple	<i>Acer negundo</i>	~15	F	F	F	0	4	1.8	Leaning (M) towards property	Remove	1
664	Norway Maple	<i>Acer platanoides</i>	45.5	G	F	G	0	4	3	spiral seam, poor form (M)	Remove	3
665	Norway Maple	<i>Acer platanoides</i>	39	G-F	G-F	G-F	0	4	2.4	Spiral seam, asymmetrical crown (L)	Remove	3
666	Norway Maple	<i>Acer platanoides</i>	34	G	G-F	G	0	4	2.4		Remove	2
667	Sugar Maple	<i>Acer saccharum</i>	18.5	G	G	G	0	3	1.8		Remove	1
668	Sugar Maple	<i>Acer saccharum</i>	18.5	G	G	G	0	3	1.8		Remove	1
669	Austrian Pine	<i>Pinus nigra</i>	36,26	G-F	F	G-F	0	3	2.4	Codominant at 1.3m	Remove	3
670	Austrian Pine	<i>Pinus nigra</i>	33	G	F	G-F	0	3	2.4	Asymmetrical crown (M)	Remove	2
671	Austrian Pine	<i>Pinus nigra</i>	32,30	F	F	G-F	0	4	2.4	Codominant at 1.2m, asymmetrical crown (L)	Preserve	
672	Austrian Pine	<i>Pinus nigra</i>	21,18,12	F-P	P	F	30	3	1.8	Codominant at base, poor form (H)	Preserve	

673	Austrian Pine	<i>Pinus nigra</i>	41,35	F-P	P	G-F	0	4	3	Leaning (M), codominant at 1.2m, poor form (H)	Preserve	
674	Austrian Pine	<i>Pinus nigra</i>	35,30,24	G	F	G-F	0	4	2.4	Codominant at 1m	Preserve	
675	Austrian Pine	<i>Pinus nigra</i>	36,24,22	F-P	P	F	30	4	2.4	Leaning (M), codominant at 1m, poor form (H)	Preserve	
676	Austrian Pine	<i>Pinus nigra</i>	35	G	G-F	G-F	20	4	2.4		Preserve	
677	Austrian Pine	<i>Pinus nigra</i>	32,33	F	P	F	30	4	2.4	Codominant at 1.2m, poor form (H)	Preserve	
678	Austrian Pine	<i>Pinus nigra</i>	35	G	G-F	F	30	3	2.4		Preserve	
679	Austrian Pine	<i>Pinus nigra</i>	47	G	G	G	0	4	3		Preserve	
680	Eastern White Cedar	<i>Thuja occidentalis</i>	12	G	F	P	90	2	1.8	Winterburn (H)	Preserve	
681	Austrian Pine	<i>Pinus nigra</i>	~49	G	G-F	F	40	4	3		Preserve	
682	Eastern White Cedar	<i>Thuja occidentalis</i>	17	G-F	G-F	G-F	0	2	1.8	Bowed (L)	Preserve	
683	Austrian Pine	<i>Pinus nigra</i>	38,24	G	F	F	40	4	2.4	Codominant at 1.3m, poor form (M)	Preserve	
684	Austrian Pine	<i>Pinus nigra</i>	51	G	F	F	30	4	3.6	Codominant at 2.2m, poor form (M)	Preserve	
685	Austrian Pine	<i>Pinus nigra</i>	24	G-F	P	P	70	3	1.8	Poor form (H)	Preserve	
686	Austrian Pine	<i>Pinus nigra</i>	44	G	G-F	F	40	3	3		Preserve	
687	Austrian Pine	<i>Pinus nigra</i>	23	G	G-F	F-P	60	3	1.8		Remove	2
688	Austrian Pine	<i>Pinus nigra</i>	20	F	P	P	0	3	1.8	Lost leader (H), poor form (H)	Preserve	
689	Austrian Pine	<i>Pinus nigra</i>	41,26	G	F	G-F	0	4	3	Codominant at 1.4m, poor form (M)	Remove	3
690	Austrian Pine	<i>Pinus nigra</i>	58	G	F	G-F	0	4	3.6	Codominant at 2m, poor form (M)	Preserve	
691	Manitoba Maple	<i>Acer negundo</i>	15	F-P	F-P	G-F	0	3	1.8	Codominant at base, union failure	Preserve	
692	Manitoba Maple	<i>Acer negundo</i>	16	F	F-P	G-F	0	3	1.8	Codominant at 1m, lost leader (M)	Preserve	
693	Black Walnut	<i>Juglans nigra</i>	44	G-F	G-F	G	0	6	3	Codominant at 2m	Remove	3
694	Black Walnut	<i>Juglans nigra</i>	37	G	G	G	0	5	2.4		Remove	3
695	Black Walnut	<i>Juglans nigra</i>	36	G	G-F	G-F	0	5	2.4	Codominant at 1.6m, asymmetrical crown (L)	Remove	3
696	Black Walnut	<i>Juglans nigra</i>	17	G	G	G	0	3	1.8		Remove	1
697	Black Walnut	<i>Juglans nigra</i>	38	G	G	G	0	5	2.4		Remove	3
698	White Mulberry	<i>Morus alba</i>	30	G-F	F	G-F	0	4	2.4	Codominant at 2m	Remove	2
699	Black Walnut	<i>Juglans nigra</i>	32	G-F	G-F	G	0	4	2.4		Remove	2
700	Black Walnut	<i>Juglans nigra</i>	30	G	G	G	0	5	2.4		Remove	2
A	Norway Spruce	<i>Picea abies</i>	~20	G	G	G	0	3	1.8		Remove	1
B	White Pine	<i>Pinus strobus</i>	~22	G	G	G	0	3	1.8		Remove	2
C	Norway Spruce	<i>Picea abies</i>	~10	G	G	F-P	60	2	1.8	Suppressed lower crown	Remove	1
D	White Pine	<i>Pinus strobus</i>	~19	G	G	G	0	2.5	1.8		Remove	1
E	Norway Spruce	<i>Picea abies</i>	~11	G	F	G	0	1.5	1.8	Asymmetrical crown (M)	Remove	1
F	Austrian Pine	<i>Pinus nigra</i>	~34	G	G-F	F	0	3	2.4	Asymmetrical crown (L), grapevine competition	Remove	2
G	White Spruce	<i>Picea glauca</i>	~14	G	G	G	0	2	1.8		Remove	1
H	White Pine	<i>Pinus strobus</i>	~15	G	G	G	0	2	1.8		Remove	1
P1	Eastern White Cedar, N	<i>Thuja occidentalis, Picea a</i>	5-25	G	G	G	0	2	1.8	20 trees total. Three trees 10-20cm DBH and one tree ~25cm DBH. Average DBH 10cm	Remove	5
P2	Eastern White Cedar	<i>Thuja occidentalis</i>	5-12	F	F	F	0	2	1.8	6 trees, average DBH 9cm. One tree ~12cm	Remove	1
P3	Beech cultivar	<i>Fagus sylvatica</i>	2-4	G	G	G	0	0.5	1.2	8 trees, average DBH 3cm	Preserve	
P4	Freeman Maple	<i>Acer X Freemanii</i>	12-14	G	G	G	0	2.5	1.8	5 trees, average DBH 13cm. ~1m from fence	Preserve	
P5	Freeman Maple	<i>Acer X Freemanii</i>	7	G	G	G	0	2	1.2	3 trees, all ~7cm DBH. ~1.2m from fence	Preserve	

Codes		
DBH	Diameter at Breast Height	(cm)
TI	Trunk Integrity	(G, F, P)
CS	Crown Structure	(G, F, P)
CV	Crown Vigor	(G, F, P)
CDB	Crown Dieback	(%)
DL	Dripline (Radius)	(m)
mTPZ	Minimum Tree Protection Zone (Radius)	(m)
Comp	Compensation	#
~ = estimate, P = poor, F = fair, G = good, (VL) = very light, (L) = light, (M) = moderate, (H) = heavy		

Appendix A. Site Photographs



Image 1. Tree 1-16



Image 2. Tree 17-26



Image 3. Tree 27-34



Image 4. Tree 439-448



Image 5. Tree 449-453



Image 6. Tree 454-480



Image 7. Tree 494-497



Image 8. Tree 669-692



Image 9. P1

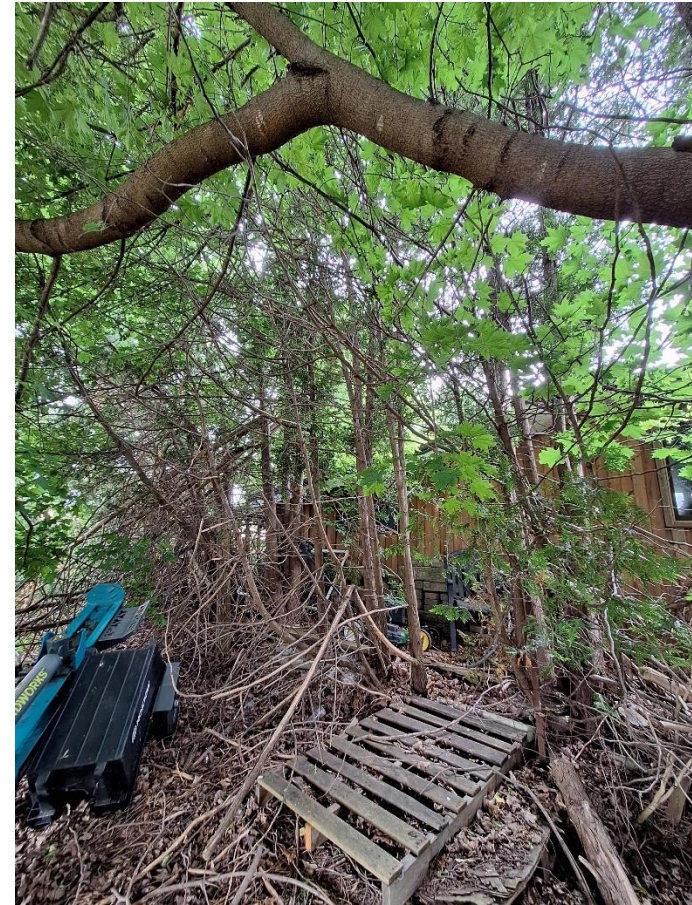


Image 10. P2



Image 11. East property boundary (facing south)



Image 12. Existing driveway and house (facing north)



Image 13. Tree on north side of Dixon's Union Cemetery (facing south)