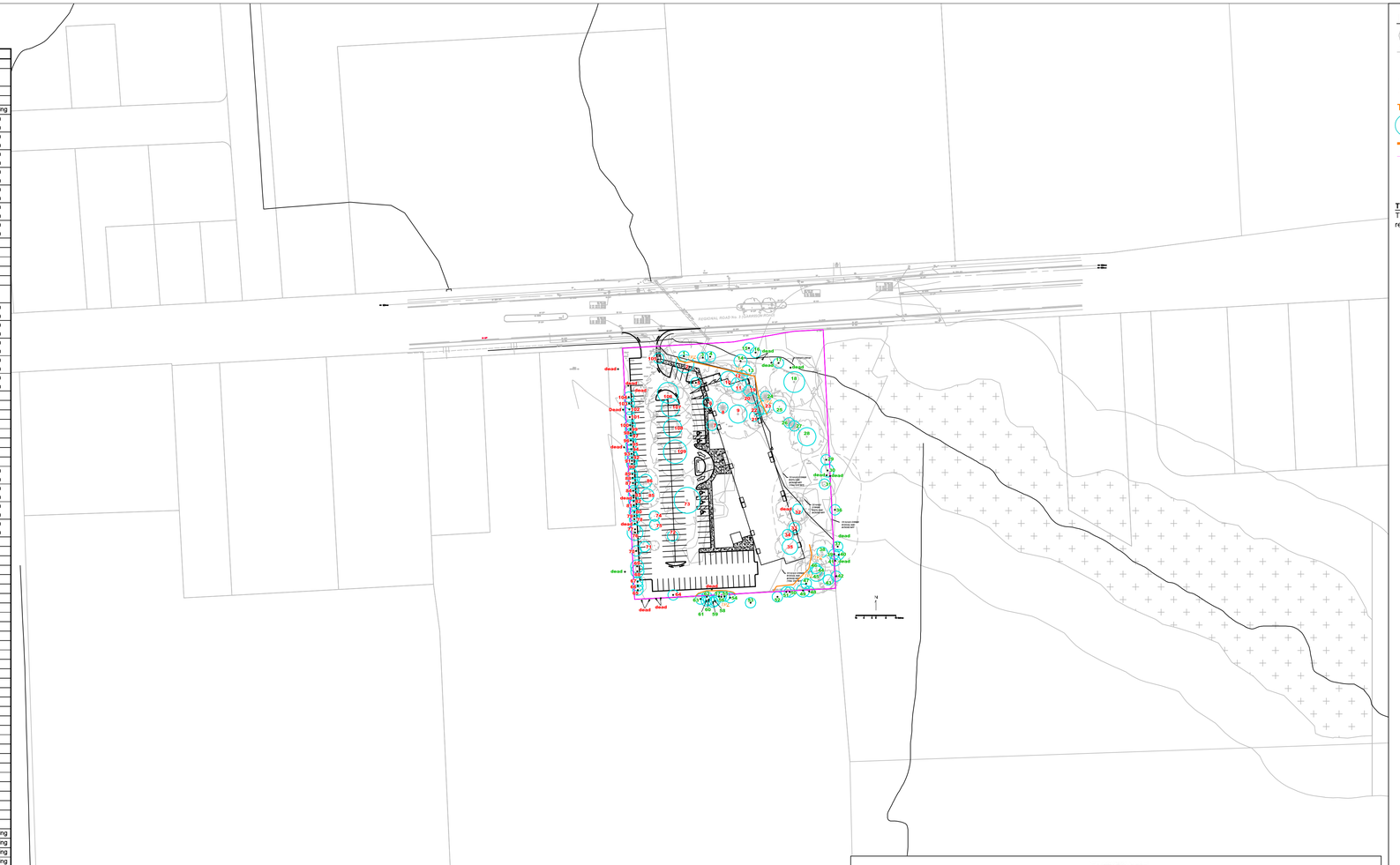
Table 1. Tree Inventory

Location: 825 Garrison Rd, Fort Erie Date: 16 June 2025 Surveyors: JJJ

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	mTPZ	Location	Comments	Action	Reason
1	Black Walnut	*Juglans nigra*	34	G	FG	F	5	2.4	Subject Property	20% crown dieback	Preserve	
2	Willow species	*Salix spp.*	68	G	F	F	4	4.2	Subject Property	Broken branches - top of crown failed	Remove	Concrete Sidewalk
3	White Spruce	*Picea glauca*	30	P	P	P	4	2.4	Subject Property	Root plate failure, snagged in tree #4	Preserve	
4	Black Walnut	*Juglans nigra*	23	G	G	G	3	2.4	Subject Property	Spruce snagged in crown	Preserve	
5	Norway Spruce	*Picea abies*	38	G	F	PF	4	2.4	Subject Property	Sparse crown	Remove	Asphalt Parking
6	Norway Spruce	*Picea abies*	26	G	G	FG	3	2.4	Subject Property		Remove	Foundation Excavation
7	Norway Spruce	*Picea abies*	27	P	P	P	3	2.4	Subject Property	90% crown dieback	Remove	Foundation Excavation
8	Norway Spruce	*Picea abies*	19	G	F	F	2	2.4	Subject Property	20% crown dieback	Remove	Foundation Excavation
9	Copper Beech	*Fagus sylvatica f. purpurea*	65	P	P	P	8	4.2	Subject Property	Heavy stem wound with heart rot	Remove	Foundation Excavation
10	Black Walnut	*Juglans nigra*	59	G	G	G	9	3.6	Subject Property		Remove	Foundation Excavation
11	Black Walnut	*Juglans nigra*	53	G	G	G	7	3.6	Subject Property		Remove	Foundation Excavation
12	Norway Spruce	*Picea abies*	18	G	G	G	3	2.4	Subject Property		Remove	Foundation Excavation
13	Black Walnut	*Juglans nigra*	31	G	G	G	5	2.4	Subject Property		Preserve	
14	Red Maple	*Acer rubrum*	37, 14, 16, 17	PF	PF	PF	5	3.0	Subject Property	Unions at ground, 0.5 and 1.1 m, 37 cm stem dead	Preserve	
15	Black Walnut	*Juglans nigra*	~25	G	G	G	5	2.4	Subject Property		Preserve	
16	White Elm	*Ulmus americana*	~35	G	G	G	8	2.4	Subject Property		Preserve	
17	White Elm	*Ulmus americana*	31	G	G	G	5	2.4	Subject Property		Preserve	
18	Silver Maple	*Acer saccharinum*	77	FG	FG	FG	6	4.8	Subject Property	Union at base of crown with included bark, frass - carpenter ants	Preserve	
19	Norway Spruce	*Picea abies*	34	G	G	G	4	2.4	Subject Property		Remove	Foundation Excavation
20	Norway Spruce	*Picea abies*	24	G	FG	FG	3	2.4	Subject Property		Remove	Foundation Excavation
21	White Mulberry	*Morus alba*	27, 25, 23	F	FG	G	8	2.4	Subject Property	Union at 1 m, bowed south	Remove	Foundation Excavation
22	White Spruce	*Picea glauca*	19	G	G	FG	3	2.4	Subject Property		Remove	Foundation Excavation
23	Silver Maple	*Acer saccharinum*	44	FG	FG	F	5	3.0	Subject Property	10% crown dieback, pruning wounds	Remove	Foundation Excavation
24	Norway Spruce	*Picea abies*	25	G	G	G	4	2.4	Subject Property		Preserve	
25	Silver Maple	*Acer saccharinum*	48	G	FG	FG	8	3.0	Subject Property	Sparse crown	Preserve	
26	White Spruce	*Picea glauca*	19	F	F	F	3	2.4	Subject Property	Stem wound, 20% crown dieback	Preserve	
27	White Spruce	*Picea glauca*	24	G	G	G	4	2.4	Subject Property		Preserve	
28	Silver Maple	*Acer saccharinum*	68	FG	P	P	7	4.2	Subject Property	Main stem failed in crown, 40% crown dieback	Preserve	
29	Black Walnut	*Juglans nigra*	22	G	G	G	4	2.4	Subject Property		Preserve	
30	Black Walnut	*Juglans nigra*	42	G	F	F	4	3.0	Subject Property	20% crown dieback	Preserve	
31	Basswood	*Tilia americana*	12	G	G	G	2	2.4	Subject Property		Preserve	
32	Basswood	*Tilia americana*	34	G	F	F	4	2.4	Subject Property	Poor form	Remove	Foundation Excavation
33	Pear species	*Pyrus spp.*	19	G	FG	FG	3	2.4	Subject Property		Remove	Foundation Excavation
34	Pear species	*Pyrus spp.*	11	G	G	G	2	2.4	Subject Property		Remove	Foundation Excavation
35	Pear species	*Pyrus spp.*	52	FG	FG	FG	5	3.6	Subject Property	Branch wound with heart rot	Remove	Foundation Excavation
36	Basswood	*Tilia americana*	29, 24	F	F	F	4	2.4	Neighbouring	Union at ground, 20 crown dieback	Preserve	
37	Basswood	*Tilia americana*	36	G	FG	FG	5	2.4	Neighbouring	10% crown dieback	Preserve	
38	Basswood	*Tilia americana*	21, 36, 26	F	FG	G	5	2.4	Subject Property	Union at ground with included bark	Preserve	
39	Basswood	*Tilia americana*	26	G	G	G	3	2.4	Boundary		Preserve	
40	Basswood	*Tilia americana*	18, 18, 13	F	FG	G	3	2.4	Neighbouring	Union at ground	Preserve	
41	Black Walnut	*Juglans nigra*	24	G	F	F	3	2.4	Neighbouring	20% crown dieback	Preserve	
42	Basswood	*Tilia americana*	28, 16	F	F	F	3	2.4	Neighbouring	Union at ground, seam, broken branches, understorey	Preserve	
43	Basswood	*Tilia americana*	30	FG	G	G	4	2.4	Subject Property	Lean east	Preserve	
44	Eastern Cottonwood	*Populus deltoides*	31	G	G	G	5	2.4	Subject Property		Preserve	
45	Eastern Cottonwood	*Populus deltoides*	53	G	G	G	6	3.6	Subject Property		Preserve	
46	Basswood	*Tilia americana*	24, 17	P	F	F	4	2.4	Subject Property	Union at ground, canker, understorey	Preserve	
47	Basswood	*Tilia americana*	28	F	F	F	3	2.4	Subject Property	Understorey - sparse crown	Preserve	
48	Pin Oak	*Quercus palustris*	~28	G	G	G	4	2.4	Neighbouring		Preserve	
49	Eastern Cottonwood	*Populus deltoides*	41	G	G	G	6	3.0	Boundary		Preserve	
50	Silver Maple	*Acer saccharinum*	~25	G	G	G	5	2.4	Neighbouring		Preserve	
51	Pin Oak	*Quercus palustris*	~20	G	G	G	4	2.4	Neighbouring		Preserve	
52	Pin Oak	*Quercus palustris*	~11	G	G	G	3	2.4	Neighbouring		Preserve	
53	Silver Maple	*Acer saccharinum*	~11	G	G	G	2	2.4	Neighbouring		Preserve	
54	Silver Maple	*Acer saccharinum*	~31	G	G	G	4	2.4	Neighbouring		Preserve	
55	Silver Maple	*Acer saccharinum*	~31	G	G	G	4	2.4	Neighbouring		Preserve	
56	Silver Maple	*Acer saccharinum*	~10	G	G	G	2	2.4	Neighbouring		Preserve	
57	Silver Maple	*Acer saccharinum*	~12	G	G	G	2	2.4	Neighbouring		Preserve	
58	Silver Maple	*Acer saccharinum*	~14	G	G	G	3	2.4	Neighbouring		Preserve	
59	Silver Maple	*Acer saccharinum*	~17	G	G	G	3	2.4	Neighbouring		Preserve	
60	Silver Maple	*Acer saccharinum*	~17	G	G	G	3	2.4	Neighbouring		Preserve	
61	Silver Maple	*Acer saccharinum*	~13	G	G	G	3	2.4	Neighbouring		Preserve	
62	Silver Maple	*Acer saccharinum*	~17	G	G	G	3	2.4	Neighbouring		Preserve	
63	Silver Maple	*Acer saccharinum*	~16	G	G	G	3	2.4	Neighbouring		Preserve	
64	White Elm	*Ulmus americana*	39	G	FG	FG	5	2.4	Subject Property		Remove	Grading
65	White Spruce	*Picea glauca*	25	G	P	P	3	2.4	Subject Property	40% crown dieback	Remove	Grading
66	White Spruce	*Picea glauca*	21	G	FG	FG	3	2.4	Subject Property	10% crown dieback	Remove	Grading
67	White Spruce	*Picea glauca*	27	G	FG	FG	3	2.4	Subject Property	10% crown dieback	Remove	Asphalt Parking
68	White Pine	*Pinus strobus*	41	G	G	G	6	3.0	Subject Property		Remove	Asphalt Parking
69	White Pine	*Pinus strobus*	46	G	G	G	7	3.0	Subject Property		Remove	Asphalt Parking
70	White Spruce	*Picea glauca*	31	G	G	G	4	2.4	Subject Property		Remove	Asphalt Parking
71	Pear species	*Pyrus spp.*	17, 17	FG	F	F	3	2.4	Subject Property	Union at ground, 20% crown dieback	Remove	Asphalt Parking
72	Apple species	*Malus spp.*	23, 17	FG	G	G	4	2.4	Subject Property	Union at 0.6 m	Remove	Asphalt Parking
73	Silver Maple	*Acer saccharinum*	94	G	F	F	13	6.0	Subject Property	Sparse crown	Remove	Asphalt Parking
74	Apple species	*Malus spp.*	11, 9	FG	G	G	3	2.4	Subject Property	Union at 0.4 m	Remove	Asphalt Parking
75	Apple species	*Malus spp.*	13	FG	G	G	3	2.4	Subject Property	Pruning wounds	Remove	Asphalt Parking
76	Norway Spruce	*Picea abies*	51	G	G	G	6	3.6	Subject Property		Remove	Asphalt Parking
77	Norway Spruce	*Picea abies*	24	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
78	Norway Spruce	*Picea abies*	36	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
79	Norway Spruce	*Picea abies*	27	G	G	G	5	2.4	Subject Property	Girdling root	Remove	Asphalt Parking
80	Norway Spruce	*Picea abies*	34	G	G	G	5	2.4	Subject Property	Girdling root	Remove	Asphalt Parking
81	Norway Spruce	*Picea abies*	11	G	G	G	2	2.4	Subject Property		Remove	Asphalt Parking
82	Norway Spruce	*Picea abies*	31	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
83	Norway Spruce	*Picea abies*	17	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
84	Norway Spruce	*Picea abies*	33	P	F	F	5	2.4	Subject Property	Root plate failure - tree leaning east	Remove	Asphalt Parking
85	Silver Maple	*Acer saccharinum*	44	G	G	G	7	3.0	Subject Property		Remove	Asphalt Parking
86	Silver Maple	*Acer saccharinum*	42	G	F	F	6	3.0	Subject Property	Sparse crown	Remove	Asphalt Parking
87	Norway Spruce	*Picea abies*	23, 9	FG	G	G	4	2.4	Subject Property	Union at ground	Remove	Asphalt Parking
88	Norway Spruce	*Picea abies*	34	G	G	G	4	2.4	Subject Property		Remove	Asphalt Parking
89	Norway Spruce	*Picea abies*	31	G	G	G	3	2.4	Subject Property		Remove	Asphalt Parking
90	White Spruce	*Picea glauca*	23	G	G	G	2	2.4	Subject Property		Remove	Asphalt Parking
91	Norway Spruce	*Picea abies*	27	G	G	G	4	2.4	Subject Property		Remove	Asphalt Parking
92	Norway Spruce	*Picea abies*	41	G	G	G	5	3.0	Subject Property		Remove	Asphalt Parking
93	Norway Spruce	*Picea abies*	22	G	G	G	4	2.4	Subject Property		Remove	Asphalt Parking
94	Norway Spruce	*Picea abies*	29	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
95	Norway Spruce	*Picea abies*	27	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
96	Norway Spruce	*Picea abies*	33	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
97	Norway Spruce	*Picea abies*	21	G	G	G	5	2.4	Subject Property	Girdling root	Remove	Asphalt Parking
98	Norway Spruce	*Picea abies*	37	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
99	Norway Spruce	*Picea abies*	29	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
100	Norway Spruce	*Picea abies*	34	G	G	G	5	2.4	Subject Property		Remove	Asphalt Parking
101	Norway Spruce	*Picea abies*	31	G	FG	G	4	2.4	Subject Property		Remove	Asphalt Parking
102	Norway Spruce	*Picea abies*	31	G	FG	G	5	2.4	Subject Property		Remove	Asphalt Parking
103	White Spruce	*Picea glauca*	18	FG	G	G	3	2.4	Subject Property	Stem wound	Remove	Asphalt Parking
104	White Spruce	*Picea glauca*	11	FG	G		2	2.4	Subject Property	Stem wound	Remove	Asphalt Parking
105	Black Walnut	*Juglans nigra*	31	G	G	G	4	2.4	Subject Property		Remove	Asphalt Parking
106	Silver Maple	*Acer saccharinum*	78	G	G	G	9	4.8	Subject Property	Vertical scaffold limb	Remove	Asphalt Parking
107	Silver Maple	*Acer saccharinum*	61	FG	FG	FG	8	4.2	Subject Property	Union at 1.8 m, sparse crown	Remove	Asphalt Parking
108	Silver Maple	*Acer saccharinum*	66	F	FG	G	8	4.2	Subject Property	Union at 2 m, stem wound at flare	Remove	Asphalt Parking
109	Silver Maple	*Acer saccharinum*	83	FG	G	G	7	5.4	Subject Property	Union at 3 m	Remove	Asphalt Parking

Legend	
DBH	Diameter at Breast Height (cm)
TI	Trunk Integrity (G, F, P)
CS	Crown Structure (G, F, P)
CV	Crown Vigor (G, F, P)
Con.	Overall Condition (G, F, P)
DL	Dripline (m)
mTPZ	Minimum Tree Preservation (m)
G	Good
F	Fair
P	Poor
EAB	emerald ash borer
~	Estimate



LEGEND

- Surveyed Deciduous Tree Location
- Surveyed Coniferous Tree Location
- GPS Tree Location
- 10 Tree Number Identified for Preservation (GREEN)
- 15 Tree Number Identified for Removal (Red)
- TPZ Tree Preservation Zone Symbol
- Minimum Tree Protection Zone (mTPZ)
- Tree Protection Fence Location
- Property Boundary

Tree Protection Recommendations

The following recommendations are made in attempts to reduce the impacts to trees identified for preservation:

- Tree protection fence must be installed at the mTPZ distance prior to the commencement of demolition, unless noted otherwise on Sheet 2.
- Once tree protection fence has been installed it must not be moved, relocated or altered in any way (unless repairing fallen fence etc.) for the duration of the construction period.
- No intrusion into an area identified on Sheet 2 as a tree preservation zone (TPZ) is allowed at anytime during construction unless noted otherwise on Sheet 2.
- No storage of machinery, construction debris, materials, waste or any other items is allowed within a TPZ.
- Any tree branches and roots that conflict with the proposed development must be pruned by a Certified Arborist in accordance with good arboricultural practice.
- Tree protection fencing should be inspected by a Certified Arborist prior to and during construction to ensure that the fencing remains intact and in good repair throughout the stages of development.

Table 2. Minimum tree preservation zone distances.

DBH (cm)	Min. Tree Preservation Zone Distance (m)*
	Radius
< 10	1.8
11 – 40	2.4
41 – 50	3
51 – 60	3.6
61 – 70	4.2
71 – 80	4.8
81 – 90	5.4
91 – 100	6
101 – 110	6.6

*As measured from the outside of the tree trunk.

TREE PROTECTION PLAN NOTES

Prior to site disturbance the owner must confirm that no migratory birds are making use of the site for nesting. The owner must ensure that the works are in conformance with the Migratory Bird Convention Act and that no migratory bird nests will be impacted by the proposed work. It is the applicants' responsibility to discuss potential tree injury of trees on shared property lines with their neighbours. Should such trees be injured to the point of instability or death the applicant may be held responsible for removal and such issues would be dealt with in civil court or through negotiation.

TREE PROTECTION ZONE: No construction activity including grade changes, surface treatments or excavations of any kind is permitted within the area identified on the Tree Protection Plan or Site Plan as a Tree Protection Zone (TPZ). No root cutting is permitted. No storage of materials or fill is permitted within the TPZ. No movement or storage of vehicles or equipment is permitted within the TPZ. Grade changes are not permitted within established TPZ. The area(s) identified as a TPZ must remain undisturbed at all times.

TREE PROTECTION BARRIERS:

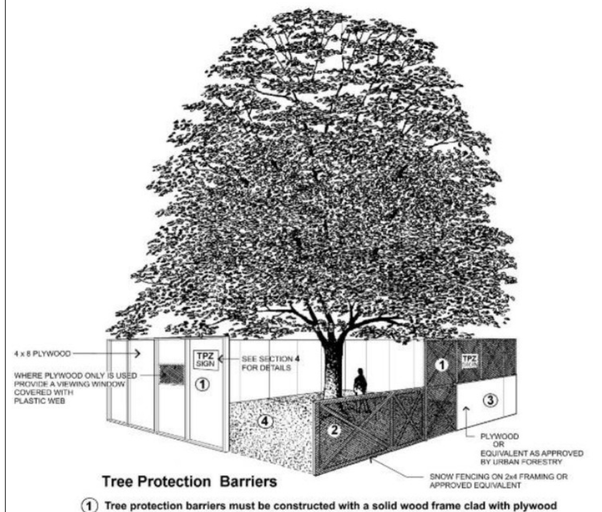
Tree protection barriers must be installed around trees to be protected using paige wire fence supported on metal T-bars. All supports and bracing to safely secure the barrier should be outside the TPZ. All such supports and bracing should minimize damage to roots outside the TPZ.

General Note:

Prior to the commencement of any site activity the tree protection barriers specified on this plan must be installed. Established tree protection zones must not be used as construction access, storage or staging areas. The tree protection barriers must remain in effective condition until all site activities including landscaping are complete. Permission from the City/Town must be provided prior to the removal of tree protection fence.

ARBORICULTURAL WORK:

Any roots or branches which extend beyond the TPZ indicated on this plan which require pruning, must be pruned by a Certified Arborist. All pruning of tree roots and branches must be in accordance with good arboricultural standards. Roots located outside the TPZ that have received approval from the City/Town to be pruned must first be exposed by hand digging or by using an air spade. This will allow a proper pruning cut and minimize tearing of the roots.



Tree Protection Barriers

1. Tree protection barriers must be constructed with a solid wood frame clad with plywood or approved equivalent. Height of hoarding may be less than 8 ft. to accomodate any branches that may be lower.
2. Tree protection barriers for trees situated on the City road allowance where visibility must be maintained can be 1.2m (4ft.) high and consist of orange plastic web snow fencing on a wood frame made of 2 x 4s.
3. Where some excavate or fill has to be temporarily located near a tree protection barrier, plywood must be used to ensure no material enters the Tree Protection Zone.
4. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

Figure 6 - Tree Protection Plan Details (photo by City of Toronto)

No.	Description	Date	By
1	Issued for Submission	7 Jul, 2025	JJ

Data Source: J.D. Barnes Limited

825 Garrison Road
Fort Erie, ON

2071380 Ontario Inc.
11 Nicholas Drive
St. Catharines, ON L2S 4C2

Tree Preservation Plan

JACKSON ARBORICULTURE INC.
CONSULTING AND GIS ANALYSIS
116 Pioneer Ridge Road
Brantford ON N3R 0H6
905-512-6303
jeremy@jacksonarbor.ca

Project #	P576
Date	7 July 2025
Scale	N/A
Sheet #	1