ARBORIST REPORT



4495 North Service Road, Burlington

Arborist Report and Tree Protection Plan

Prepared for Dream Summit Industrial

LGL FILE NO 9453

June 2026

ARBORIST REPORT AND TREE PROTECTION PLAN

4495 North Service Road, Burlington

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JUNE 2026
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1 Introduction

LGL Limited (LGL) was retained by Dream Summit Industrial (Dream) to provide an arborist assessment for a redevelopment project located at 4495 North Service Road in the City of Burlington, herein referred to as the Subject Property (**Figure 1**). The intent is to develop two single storey industrial buildings with associated office space. The development has a proposed GFA of 40,769.07 square metres and will provide 497 parking spaces.

This Arborist Report documents the results of the tree inventory and assessment undertaken by an ISA Certified Arborist in October 2024. This report includes a tree impact assessment and Tree Protection Plan in accordance with City of Burlington guidelines.

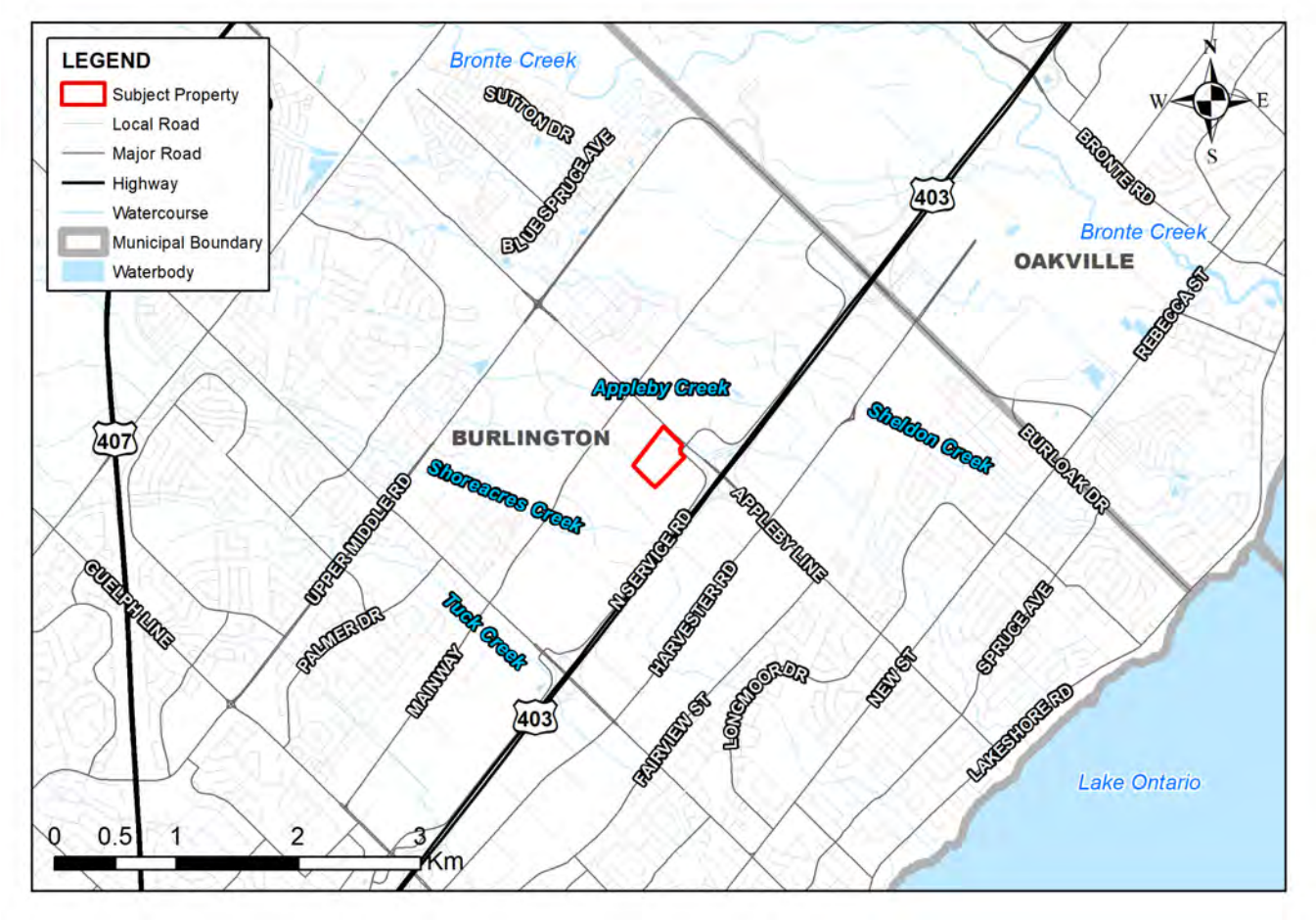


Figure 1. Map of Subject Property

2 Methodology

An ISA Certified Arborist conducted an inventory of tree resources on October 3, 2024, to identify potential tree constraints within and adjacent to the Subject Property. The inventory was conducted in accordance with City of Burlington Tree Protection and Preservation Specification SS12A and documents all existing trees greater than 10cm DBH on site and on adjacent properties within 6m of the property lines as well all trees of any size on city property.

Tree locations were matched to an existing survey and trees that were not identified by the survey were captured by LGL using an EOS Arrow 100 with an accuracy of ± 1 m. Attention was paid to canopy size and shape where tree

canopies overhang the access roads and workspace and may conflict with development activities such as machinery manoeuvring.

The following information was collected for each tree: tree species (common and scientific name), diameter at breast height (DBH), radial dripline, tree condition assessed in a matrix of trunk integrity (TI), crown structure (CS), and crown vigour (CV), and general comments as warranted.

Surveyed trees have been screened for rare species as referenced by the Ministry of Natural Resources and Forestry (MNRF) Natural Heritage Information Centre (NHIC), which includes classification of Endangered, Threatened, and Special Concern species both at a provincial and federal scale.

3 Results

A total of 208 trees were identified and assessed during the tree inventory. Trees within the study area range in size from 3 cm to 80 cm DBH and are generally in good to fair condition. The majority of trees within the study area occur naturally with some occurring as streetscape and amenity trees on private and city property. A detailed summary of all trees surveyed is presented in the **Appendix A: Tree Inventory** and the locations of each tree (by identifier number) are presented in **Figure 2**.

No trees within the study area were identified as Species at Risk.

4 Proposed Site Plan

The applicant is proposing a modular logistics building to facilitate outdoor storage, including 463 trailer storage spaces that are accessory to the building. The building is 278.6sqm in GFA and 5 parking spaces are proposed, and the development is proposed in the lands zoned GE1.

5 Impact Assessment

An impact assessment was completed to determine the impacts to tree resources as a result of the proposed construction plan. The impact assessment was completed by comparing the extent of the tree dripline and tree protection zones with the proposed disturbance limits. Trees recommended for removal include trees within or outside the disturbance limits (>25%) that would not be able to withstand construction-related impacts. Trees identified as injured likely will require root and/or canopy pruning; however, impacts will be minor, and the trees can be retained. In addition, trees identified as retained are those considered to be minimally affected and will be protected through mitigation measures. Note that this impact assessment is an estimate based on the information provided in the design.

5.1 Trees Identified for Removal

Recommendations for removal include trees located within or just outside the disturbance zone that would not withstand construction-related impacts. A total of 54 trees have been identified for removal as a result of the proposed site plan. Trees identified for removal are presented in **Figure 3a-3c** and listed in **Appendix A**.

5.2 Trees Identified as Injured

Injured trees are those that are identified for retention, but minor encroachment into the minimum TPZ will occur. A total of 4 trees have been identified for injury and will require tree protection hoarding to be installed. Trees identified for injury, and tree protection measures are presented in **Figure 3a-3c** and listed in **Appendix A**.

5.3 Trees Identified as Retained

Trees with a TPZ outside of the project limits and canopies not overhanging proposed works will be retained. A total of 150 trees are identified to be Retained. Tree protection hoarding is proposed for a portion of retained trees that occur near the proposed site plan disturbance limits. Retained trees are presented in **Figure 3a-3c** and listed in **Appendix A**.

6 Common and Potential Impacts

This section outlines the common and potential impacts to trees that may arise during construction and staging activities. Such impacts typically include physical injury, root cutting, and soil compaction.

Physical injury including cutting, tearing, or other damage to the trunk, branches, or roots—can occur if construction equipment operates too close to a tree. These injuries can be prevented by following the approved mitigation measures described in Section 7.

Root cutting is a significant threat to tree health. Roots are responsible for nutrient and water uptake, carbohydrate storage, and structural stability. Most roots are located within the upper 30 to 60 cm of soil, meaning any excavation within a tree's dripline can sever roots and compromise tree stability. Severing structural roots can even lead to tree failure. To protect roots within the Minimum Tree Protection Zone, techniques such as air spading, hydro-vac excavation, or hand-digging are recommended.

Soil compaction is another major contributor to tree decline, often resulting from vehicle and machinery traffic, material storage, or general movement within the root zone. Compacted soil reduces pore space, limiting oxygen and water availability and suffocating roots. The effects of compaction may not be immediately visible and could take up to five years to manifest as tree decline.

Establishing a **Minimum Tree Protection Zone (MTPZ)** is essential to safeguard retained trees. The MTPZ restricts construction activity and equipment from entering sensitive areas and damaging roots, trunks, or branches. Physical barriers, such as plywood hoarding or approved fencing systems, should be installed around all trees near construction works.

Tree removals in Burlington are also subject to provincial and federal legislation, including the Migratory Birds Convention Act, the Conservation Authorities Act, the Endangered Species Act, and the Fisheries Act. To protect nesting birds, vegetation removal should generally be avoided between March 30 and September 1. If work during this period is unavoidable, a nest survey is required, and consultation with Environment Canada may be necessary.

6.1 Minimum Tree Protection Zone (MTPZ)

The City of Burlington requires a minimum Tree Protection Zone (MTPZ) to be established around all trees that are to be retained during construction or development activities. The MTPZ is intended to safeguard the tree's root system, trunk, and canopy from damage caused by grading, excavation, or equipment movement. The size of the TPZ is generally determined by the trunk diameter at breast height (DBH) and follows standardized guidelines to ensure adequate space for healthy growth and long-term preservation. Proper fencing and signage are mandatory to clearly define the TPZ and prevent unauthorized entry.

The following is a table showing minimum required distances for determining a MTPZ. Some trees and some site conditions may require a larger MTPZ at the discretion of the City.

Table 1. City of Burlington Tree Protection Zones

Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100+ cm	6.0 m	10.0 m

NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

7 Mitigation Recommendations

The following recommendations should be considered during detail design to prevent or mitigate impacts to trees near construction:

- No trees shall be pruned, removed or impacted without prior approval from the City of Burlington;
- It is the responsibility of the project team to become directly acquainted with the site, to carefully examine the location of the proposed work, and to notify the City of any discrepancies in the site conditions;
- Prior to starting any work, the Contractor is to review the site with their arborist, City of Burlington, Region of Halton and exp to determine/confirm tree impacts using the Contractor's construction methods;
- Prior to the start of any site work, the Contractor shall supply and install tree protection barriers around each tree or cluster of trees designated for protection to the satisfaction of the City of Burlington Arborist (identified in **Figures 3a to 3c**);
- Exposed roots from excavation must be covered with soil, mulch or burlap and watered within 24 hours of exposure to prevent drying out;
- Prior to commencing work, the Contractor is required to raise the crown of all branches to provide adequate clearance for construction equipment. This should be done by an approved Arborist or Tree service company for trees adjacent to the boulevard;
- No fill, machinery, chemicals, fuel or materials are to be placed within the protective barrier; heavy machinery is not to be operated within the MTPZ (including overhead swinging of machine arms);
- Heavy Duty Tree Protection Barriers as outlined in Tree Protection and Preservation Specification No. SS12A (**Appendix B**) to delineate the work zone and restrict machinery from access to the minimum tree protection zones (identified in **Figure 3a to 3c**) shall be installed prior to construction activities;
- No re-grading, including filling or excavation, is to take place within the MTPZ unless permitted by the City Arborist

- Written authorization from the City Arborist is required prior to removing all tree protection fencing upon completion of construction activities;
- No signs or objects should be displayed or affixed to any retained trees;
- All supports and bracing should be installed outside of the protection zone to minimize root damage;
- A laminated Minimum Tree Protection Zone sign must be attached to the most visible side of the protection fencing to inform workers that entry is not permitted. Sign size is 10'x14' (**Appendix B**);
- Excavation within the MTPZ should be completed by water or air-powered excavation tools under the supervision of a qualified arborist. Upon air-spade/hydrovac excavation, should tree roots be found, an effort to avoid/work-around is strongly encouraged. If avoidance is not feasible, roots shall be cleanly severed with sharp hand tools by a qualified arborist. Photographic documentation should be conducted during this activity, specifically to illustrate the excavation near the tree, the physical structure of the exposed roots, and the condition of roots upon severing;
- Root pruning under 2 cm can be pruned using a tool such as a hand pruners or a sharp spade under the supervision of the Construction Inspector;
- Root pruning between 2 and 8 cm can be pruned by the arborist using a sharp tool, such as a handsaw, hand pruner or loppers and under the supervision of a certified Arborist;
- All roots over 8 cm in diameter must be assessed by the Project Arborist prior to pruning unless the arborist on-site can confidently assess the effects of the removal of the root as not detrimental to the tree;
- Excavation areas should be backfilled with the same soil or new topsoil or compost; and,
- Should any additional, incidental or accidental tree injury occur during construction, a qualified Arborist or City Arborist should be consulted to determine additional mitigation measures that need to be implemented within 5 days of the damage.

8 Tree Removal Compensation (To be completed once site plan is available)

The City of Burlington has enacted replacement requirements for the disturbance or removal of regulated trees. Replacement requirements are based on the number and diameter of tree(s) approved for removal using a ratio-based system, as shown in **Table 2**. The 54 trees impacted will require 35 trees in replacement as per city of Burlington standards.

Table 2. City of Burlington Tree Compensation Requirements

Trunk Diameter (DBH) of tree approved for removal	Tree replacement ratio	Number of trees proposed for removal	Number of required replacement trees
Less than 20 cm	0:1	40	0
20-35 cm	2:1	8	16
36 to 74cm	3:1	5	15
75 cm or more	4:1	1	4
	Total	54	35

Replacement trees must be the following minimum sizes at the time of installation:

- 30 mm caliper if deciduous (broadleaf)
- 125 cm tall if coniferous (evergreen)

9 Summary and Closing

An evaluation of tree resources was conducted in April 2025. An impact assessment has been undertaken based on the site plan design and has identified the following impacts to trees on the subject property:

- Removal – 54 are identified for removal;
- Injury – 4 tree is identified for injury and will require tree protection hoarding; and,
- Retained – 150 trees are identified for retention without injury.

A Tree Protection Plan (**Figure 3a-3c**) has been prepared and details the tree protection hoarding requirements. All trees are listed in the **Appendix A Tree Inventory**.

10 Disclaimer

10.1 Limitations of this Assessment

This Assessment is based on the circumstances and observations as they existed at the time of the site inspection of the Client's Property and the trees situated thereon and upon information provided by the Client to LGL Limited. The opinions in this Assessment are given based on observations made and using generally accepted professional judgment; however, because trees and plants are living organisms and subject to change, damage and disease, the results, observations, recommendations, and analysis as set out in this Assessment are valid only as at the date any such testing, observations and analysis took place and no guarantee, warranty, representation or opinion is offered or made as to the length of the validity of the results, observations, recommendations and analysis contained within this Assessment. As a result, the Client shall not rely upon this Assessment, save and except for representing the circumstances and observations, analysis and recommendations that were made as at the date of such inspections. It is recommended that the trees discussed in this Assessment should be re-assessed periodically.

10.2 Restriction of Assessment

The Assessment carried out was restricted to the Property. No assessment of any other trees or plants has been undertaken by LGL. LGL is not legally liable for any other trees or plants on the Property except those expressly discussed herein. The conclusions of this Assessment do not apply to any areas, trees, plants or any other property not within the study area or referenced in this Assessment.

10.3 Professional Responsibility

In carrying out this Assessment, LGL Limited and any Assessor appointed for and on behalf of LGL Limited to perform and carry out the Assessment has exercised a reasonable standard of care, skill and diligence as would be customarily and normally provided in carrying out this Assessment. The Assessment has been made using accepted arboricultural techniques. These include a visual examination of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discoloured foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the current or planned proximity of property and people. Except where specifically noted in the Assessment, none of the trees examined on the property were dissected, cored, probed, or climbed and detailed root crown examinations involving excavation were not undertaken.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or all parts of them will remain standing. It is professionally impossible to predict with absolute certainty the behaviour of any single tree or group of trees, or all their component parts, in all given circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential to fall, lean, or otherwise pose a danger to property and persons in the event of adverse weather conditions, and this risk can only be eliminated if the tree and stump are removed. Without limiting the foregoing, no liability is assumed by LGL or its directors, officers, employers, contractors, agents or Assessors for:

a) any legal description provided with respect to the Property;

b) issues of title and or ownership respect to the Property;

c) the accuracy of the Property line locations or boundaries with respect to the Property;

d) the accuracy of any other information provided to LGL by the Client or third parties;

e) any consequential loss, injury or damages suffered by the Client or any third parties, including but not limited to replacement costs, loss of use, earnings and business interruption; and,

f) the unauthorized distribution of the Assessment.

Tree Resource Figures

City of Burlington
Regional Municipality of Halton

Appleby Creek Trib.

APPLEBY LINE

N SERVICE RD

QUEEN ELIZABETH WAY

LEGEND

- Subject Property
- Tree Resource
- Regulation Limit Halton Conservation - Approximate
- Watercourse

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0 20 40 60 80 m

4495 North Service Road

Tree Resources

LGL Est. 1971 LIMITED
environmental research associates

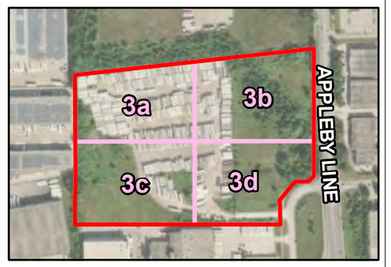
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Date:	October, 2025	**Prepared By:**	AME
Scale:	1:1,400	**Verified By:**	JPB

City of Burlington
Regional Municipality of Halton

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Fig. 3b
Fig. 3c
Fig. 3d

LEGEND

- Subject Property
- Tree to be Protected
- Tree to be Injured
- Tree to be Removed
- Tree Protection Fence
- Dripline
- Tree Protection Zone
- Regulation Limit Halton Conservation - Approximate
- Watercourse



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0 10 20 30 40 m

4495 North Service Road

Tree Impacts

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Project:	TA9453	**Figure:**	3a
Date:	June, 2026	**Prepared By:**	AME
Scale:	1:800	**Verified By:**	JPB

City of Burlington
Regional Municipality of Halton

1372 1371 1370 1369 1367 1368 1366 1365 1364 1363 1362 1357 1361 1359 1358 1360 1346 1347 1345 1356 1344 1355 1353 1348 1354 1349 1350 1343 1351 1352 1342 1337 1340 1341 1339 1336 1338 1332 1335 1331 1330 1333 1334 1326 1327 1325 1324 1328 1323 1315 1318 1319 1314 1320 1313 1322 1312 1317 1310 1321 1311 1308 1265 1307 1267 1309 1316 1306 1266 1270 1271 1264 1279 1263 1280 1262 1373 1374 1375 1376

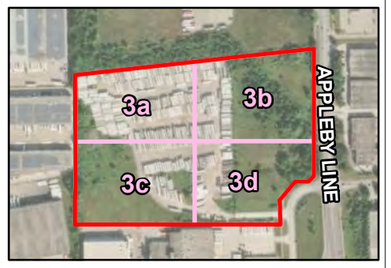
Fig. 3a

Fig. 3c

Fig. 3d

LEGEND

- Subject Property
- Tree to be Protected
- Tree to be Injured
- Tree to be Removed
- Tree Protection Fence
- Dripline
- Tree Protection Zone
- Regulation Limit Halton Conservation - Approximate
- Watercourse



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0 10 20 30 40 m

4495 North Service Road

Tree Impacts

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Project:	TA9453	**Figure:**	3b
Date:	June, 2026	**Prepared By:**	AME
Scale:	1:800	**Verified By:**	JPB

City of Burlington
Regional Municipality of Halton

Fig. 3a

Fig. 3b

Fig. 3d

LEGEND

- Subject Property
- Tree to be Protected
- Tree to be Injured
- Tree to be Removed
- Tree Protection Fence
- Dripline
- Tree Protection Zone
- Regulation Limit Halton Conservation - Approximate
- Watercourse



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4495 North Service Road

Tree Impacts

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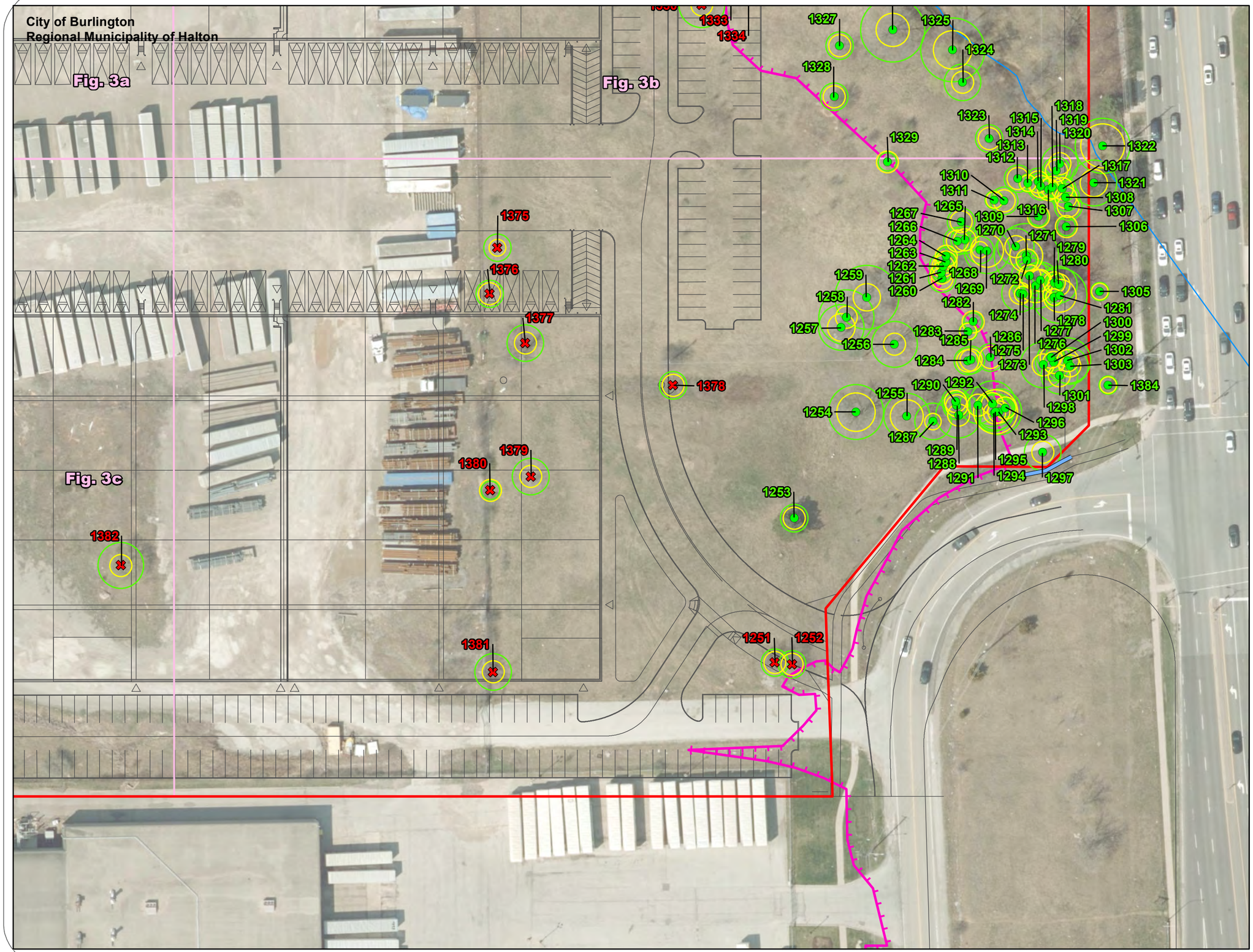
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Date:	June, 2026	**Prepared By:**	AME
Scale:	1:800	**Verified By:**	JPB

City of Burlington
Regional Municipality of Halton

Fig. 3a

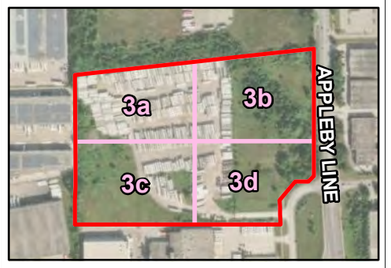
Fig. 3b

Fig. 3c



LEGEND

- Subject Property
- Tree to be Protected
- Tree to be Injured
- Tree to be Removed
- Tree Protection Fence
- Dripline
- Tree Protection Zone
- Regulation Limit Halton Conservation - Approximate
- Watercourse



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0 10 20 30 40 m

4495 North Service Road

Tree Impacts

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Project:	TA9453	**Figure:**	3d
Date:	June, 2026	**Prepared By:**	AME
Scale:	1:800	**Verified By:**	JPB

Appendix A
Tree Inventory Table

Project: TA9453
Client: Dream Summit Industrial
Collectors: JPB
Date: October 3, 2024
Area: 4495 North Service Road, Burlington

Tree #	Scientific Name	Common Name	DBH (cm)	Additional Stems	Estimation of DBH (x)	Radial Dripline (m)	Condition			Ownership	Minimum Tree Protection Zone (m)	Critical Root Zone (m)	Impact Assessment			Tree Preservation Measures						Comments
							TI	CS	CV				Impact	% TPZ Within Disturbance Limit	Reason	Canopy Pruning	Protect with Hoarding	Root Pruning	Air-spade/hand dig pit	Open Trench Excavation	Trenchless Excavation	
1	*Carya ovata var. ovata*	shagbark hickory	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								behind fence
2	*Carya ovata var. ovata*	shagbark hickory	30.0		x	4	G	F	F	Private	2.4	4.0	Retain	0								behind fence
3	*Carya ovata var. ovata*	shagbark hickory	10.0		x	6	G	G	G	Private	1.8	1.8	Retain	0								
4	*Carya ovata var. ovata*	shagbark hickory	45.0		x	4	G	G	G	Private	3.0	5.0	Retain	0								behind fence
5	*Carya ovata var. ovata*	shagbark hickory	16.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
6	*Carya ovata var. ovata*	shagbark hickory	15.0	10.0	x	3	G	G	G	Private	2.4	4.0	Retain	0								not tagged
7	*Picea pungens*	blue spruce	15.0		x	2	G	G	G	Private	2.4	4.0	Retain	0			x					not tagged
8	*Picea pungens*	blue spruce	25.0		x	3	G	G	G	Private	2.4	4.0	Injure	16.9	Tree TPZ within site plan limits		x					behind fence, not tagged
9	*Tilia americana*	basswood	25.0	20,15,14	x	5	G	G	G	Private	2.4	4.0	Retain	0								
10	*Prunus avium*	sweet cherry	18.0			4	G	G	G	Private	2.4	4.0	Retain	0								behind fence
11	*Carya ovata var. ovata*	shagbark hickory	12.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
12	*Carya ovata var. ovata*	shagbark hickory	10.0		x	3	G	G	G	Private	1.8	1.8	Retain	0								behind fence
13	*Quercus macrocarpa*	bur oak	10.0			3	G	G	G	Private	1.8	1.8	Retain	0								behind fence
14	*Carya ovata var. ovata*	shagbark hickory	11.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
15	*Carya ovata var. ovata*	shagbark hickory	35.0		x	4	G	G	G	Private	2.4	4.0	Retain	0								behind fence
16	*Prunus avium*	sweet cherry	15.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
17	*Prunus avium*	sweet cherry	11.0		x	3	G	G	G	Private	2.4	4.0	Retain	0.1			x					behind fence
18	*Carya ovata var. ovata*	shagbark hickory	15.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
19	*Carya ovata var. ovata*	shagbark hickory	47.0			5	G	G	G	Private	3.0	5.0	Remove	61.5	Within Site Plan Limits							
20	*Ulmus americana*	American elm	11.0			2	G	G	G	Private	2.4	4.0	Remove	64.4	Within Site Plan Limits							
21	*Ulmus americana*	American elm	13.0	12,11,9		2	G	G	G	Private	2.4	4.0	Remove	48.8	Within Site Plan Limits							behind fence
22	*Ulmus americana*	American elm	12.0			2	G	G	G	Private	2.4	4.0	Remove	25.9	Within Site Plan Limits							behind fence
23	*Pyrus sp.*	pear	29.0		x	3	G	G	G	Private	2.4	4.0	Retain	0								behind fence
24	*Picea pungens*	blue spruce	3.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
25	*Picea pungens*	blue spruce	3.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
26	*Picea pungens*	blue spruce	3.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
27	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
28	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
29	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
30	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
31	*Pinus strobus*	white pine	6.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
32	*Pinus strobus*	white pine	5.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
33	*Pinus strobus*	white pine	6.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
34	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
35	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
36	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
37	*Acer x freemanii*	Freeman's maple	7.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
38	*Picea pungens*	blue spruce	4.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
39	*Picea pungens*	blue spruce	4.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
40	*Picea pungens*	blue spruce	4.0			1	G	G	G	Private	1.8	1.8	Retain	0			x					planted tree
844	*Morus alba*	white mulberry	22.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
845	*Morus alba*	white mulberry	18.0	17,15		4	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
846	*Tilia americana*	basswood	20.0	15,10,7		4	F	G	G	Private	2.4	4.0	Remove	50.6	Within 30cm of Site Plan Limits							growing through fence
847	*Quercus rubra*	red oak	18.0	17.0		4	F	G	G	Private	2.4	4.0	Remove	75.5	Within Site Plan Limits							
848	*Tilia americana*	basswood	13.0	6,7		4	G	G	G	Private	2.4	4.0	Injure	15.2	Tree TPZ within site plan limits		x					growing through fence
849	*Carya ovata var. ovata*	shagbark hickory	16.0			3	G	G	G	Private	2.4	4.0	Remove	49.1	Within Site Plan Limits							
850	*Carya ovata var. ovata*	shagbark hickory	12.0			3	G	G	G	Private	2.4	4.0	Remove	85.8	Within Site Plan Limits							
851	*Carya ovata var. ovata*	shagbark hickory	32.0			4	G	G	P	Private	2.4	4.0	Remove	31.5	Within Site Plan Limits							
852	*Quercus macrocarpa*	bur oak	21.0			3	G	G	G	Private	2.4	4.0	Retain	7.5								behind fence tagged on fence
853	*Carya ovata var. ovata*	shagbark hickory	14.0			3	G	G	G	Private	2.4	4.0	Remove	98	Within Site Plan Limits							
854	*Populus deltoides ssp. deltoides*	eastern cottonwood	37.0			5	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
855	*Acer negundo*	Manitoba maple	12.0			3	G	G	G	Private	2.4	4.0	Injure	10.3	Tree TPZ within site plan limits		x					
856	*Salix x rubens*	crack willow	13.0	10,7,6		4	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
857	*Ailanthus altissima*	tree of heaven	12.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
858	*Carya ovata var. ovata*	shagbark hickory	29.0			4	F	G	G	Private	2.4	4.0	Retain	0								wound on trunk
859	*Tilia americana*	basswood	19.0	17,13,15		3	G	G	G	Private	2.4	4.0	Retain	0								growing through fence
860	*Carya ovata var. ovata*	shagbark hickory	25.0			4	G	G	G	Private	2.4	4.0	Retain	0								behind fence
861	*Carya ovata var. ovata*	shagbark hickory	35.0			4	G	G	G	Private	2.4	4.0	Retain	0								behind fence
1,251	*Elaeagnus angustifolia*	Russian olive	14.0	12,10,9		3	G	G	G	Private	2.4	4.0	Remove	90.5	Within Site Plan Limits							
1,252	*Elaeagnus angustifolia*	Russian olive	15.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,253	*Pinus nigra*	Austrian pine	38.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,254	*Juglans nigra*	black walnut	63.0			6	G	G	G	Private	4.2	7.0	Retain	0								
1,255	*Acer negundo*	Manitoba maple	55.0	36,45,53		5	F	F	G	Private	3.6	6.0	Retain	0								
1,256	*Juglans nigra*	black walnut	40.0	30.0		5	G	G	G	Private	2.4	4.0	Retain	0								
1,257	*Juglans nigra*	black walnut	43.0			5	G	G	G	Private	3.0	5.0	Retain	0								
1,258	*Juglans nigra*	black walnut	39.0			6	G	G	G	Private	2.4	4.0	Retain	0								
1,259	*Juglans nigra*	black walnut	47.0	39.0		7	G	G	G	Private	3.0	5.0	Retain	0								
1,260	*Robinia pseudoacacia*	black locust	12.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,261	*Robinia pseudoacacia*	black locust	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,262	*Robinia pseudoacacia*	black locust	14.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,263	*Robinia pseudoacacia*	black locust	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,264	*Robinia pseudoacacia*	black locust	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,265	*Robinia pseudoacacia*	black locust	20.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,266	*Robinia pseudoacacia*	black locust	15.0	10.0		3	G	G	G	Private	2.4	4.0	Retain	0								
1,267	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,268	*Fraxinus americana*	white ash	10.0			3	G	G	G	Private	1.8	1.8	Retain	0								
1,269	*Aesculus hippocastanum*	horsechestnut	57.0			5	G	G	G	Private	3.6	6.0	Retain	0								
1,270	*Juglans nigra*	black walnut	18.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,271	*Juglans nigra*	black walnut	56.0			7	G	G	G	Private	3.6	6.0	Retain	0								
1,272	*Juniperus virginiana*	Eastern red cedar	15.0			2	F	F	F	Private	2.4	4.0	Retain	0								
1,273	*Fraxinus pennsylvanica*	red ash	31.0	20.0		4	P	P	P	Private	2.4	4.0	Retain	0								
1,274	*Robinia pseudoacacia*	black locust	20.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,275	*Robinia pseudoacacia*	black locust	10.0			1	F	G	G	Private	1.8	1.8	Retain	0								wound on trunk
1,276	*Fraxinus pennsylvanica*	red ash	59.0			5	P	P	P	Private	3.6	6.0	Retain	0								
1,277	*Juglans nigra*	black walnut	23.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,278	*Fraxinus americana*	white ash	10.0	10,8		2	F	F	F	Private	1.8	1.8	Retain	0								
1,279	*Juglans nigra*	black walnut	17.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,280	*Fraxinus americana*	white ash	15.0			4	P	P	P	Private	2.4	4.0	Retain	0								
1,281	*Juglans nigra*	black walnut	54.0			6	G	G	G	Private	3.6	6.0	Retain	0								
1,282	*Robinia pseudoacacia*	black locust	11.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,283	*Robinia pseudoacacia*	black locust	10.0	9.0		2	G	G	G	Private	1.8	1.8	Retain	0								
1,284	*Robinia pseudoacacia*	black locust	12.0	10.0		3	G	G	G	Private	2.4	4.0	Retain	0								
1,285	*Robinia pseudoacacia*	black locust	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,286	*Robinia pseudoacacia*	black locust	15.0	12.0		3	G	G	G	Private	2.4	4.0	Retain	0								
1,287	*Juglans nigra*	black walnut	10.0			4	G	G	G	Private	1.8	1.8	Retain	0								
1,288	*Robinia pseudoacacia*	black locust	37.0			5	G	F	G	Private	2.4	4.0	Retain	0								
1,289	*Robinia pseudoacacia*	black locust	24.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,290	*Robinia pseudoacacia*	black locust	20.0			3	P	G	G	Private	2.4	4.0	Retain	0								fungus on trunk
1,291	*Robinia pseudoacacia*	black locust	36.0			4	P	P	F	Private	2.4	4.0	Retain	0								
1,292	*Robinia pseudoacacia*	black locust	24.0	24.0		5	G	G	G	Private	2.4	4.0	Retain	0								
1,293	*Robinia pseudoacacia*	black locust	36.0			5	G	G	G	Private	2.4	4.0	Retain	0								
1,294	*Juglans nigra*	black walnut	20.0			4	G	G	G	Private	2.4	4.0	Retain	0								growing next to 1293
1,295	*Malus pumila*	apple	74.0			4	P	P	P	Private	4.8	8.0	Retain	0								cavity in trunk
1,296	*Robinia pseudoacacia*	black locust	17.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,297	*Elaeagnus angustifolia*	Russian olive	28.0	20.0		4	G	G	G	Private	2.4	4.0	Retain	0			x					
1,298	*Robinia pseudoacacia*	black locust	37.0			5	G	G	G	Private	2.4	4.0	Retain	0								
1,299	*Robinia pseudoacacia*	black locust	21.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,300	*Robinia pseudoacacia*	black locust	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,301	*Robinia pseudoacacia*	black locust	21.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,302	*Robinia pseudoacacia*	black locust	26.0			5	G	G	G	Private	2.4	4.0	Retain	0								
1,303	*Robinia pseudoacacia*	black locust	21.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,305	*Juglans nigra*	black walnut	10.0			2	G	G	G	City	1.8	1.8	Retain	0								

Tree #	Scientific Name	Common Name	DBH (cm)	Additional Stems	Estimation of DBH (x)	Radial Dripline (m)	Condition			Ownership	Minimum Tree Protection Zone (m)	Critical Root Zone (m)	Impact Assessment			Tree Preservation Measures						Comments
							TI	CS	CV				Impact	% TPZ Within Disturbance Limit	Reason	Canopy Pruning	Protect with Hoarding	Root Pruning	Air-spade/hand dig pit	Open Trench Exavation	Trenchless Excavation	
1,306	*Juglans nigra*	black walnut	14.0			2	G	F	G	Private	2.4	4.0	Retain	0								vines up trunk
1,307	*Juglans nigra*	black walnut	14.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,308	*Juglans nigra*	black walnut	16.0			3	G	G	G	Private	2.4	4.0	Retain	0								vines up trunk
1,309	*Juglans nigra*	black walnut	11.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,310	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,311	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0								
1,312	*Juglans nigra*	black walnut	16.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,313	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0								
1,314	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,315	*Juglans nigra*	black walnut	12.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,316	*Juglans nigra*	black walnut	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,317	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,318	*Juglans nigra*	black walnut	15.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,319	*Juglans nigra*	black walnut	14.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,320	*Juglans nigra*	black walnut	16.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,321	*Pinus nigra*	Austrian pine	47.0			5	G	G	G	City	3.0	5.0	Retain	0								
1,322	*Salix x rubens*	crack willow	80.0	53,37		6	F	F	G	City	4.8	8.0	Retain	0								
1,323	*Juglans nigra*	black walnut	16.0			3	G	G	G	Private	2.4	4.0	Retain	0								vines up trunk
1,324	*Ulmus americana*	American elm	13.0	9.0		4	G	G	G	Private	2.4	4.0	Retain	0								
1,325	*Salix x rubens*	crack willow	61.0	36,38,36		7	G	G	G	Private	4.2	7.0	Retain	0								
1,326	*Juglans nigra*	black walnut	56.0			7	F	G	G	Private	3.6	6.0	Retain	0								wound at base
1,327	*Juglans nigra*	black walnut	20.0	11.0		3	G	G	G	Private	2.4	4.0	Retain	0								
1,328	*Malus pumila*	apple	14.0	11,11,9,8,7		3	G	G	G	Private	2.4	4.0	Retain	0								
1,329	*Pyrus sp.*	pear	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,330	*Juglans nigra*	black walnut	23.0			5	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,331	*Juglans nigra*	black walnut	49.0			5	G	G	G	Private	3.0	5.0	Remove	37.4	Within Site Plan Limits							
1,332	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Injure	10.7	Tree TPZ within site plan limits		x					
1,333	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Remove	55	Within Site Plan Limits							
1,334	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Remove	46.6	Within Site Plan Limits							
1,335	*Juglans nigra*	black walnut	25.0	23.0		5	G	G	G	Private	2.4	4.0	Retain	0								
1,336	*Juglans nigra*	black walnut	25.0			5	G	G	G	Private	2.4	4.0	Retain	0								
1,337	*Juglans nigra*	black walnut	29.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,338	*Juglans nigra*	black walnut	14.0	8.0		3	G	G	G	Private	2.4	4.0	Retain	0								
1,339	*Juglans nigra*	black walnut	19.0	15.0		4	G	G	G	Private	2.4	4.0	Retain	0								
1,340	*Juglans nigra*	black walnut	30.0			5	G	G	G	Private	2.4	4.0	Retain	0								
1,341	*Juglans nigra*	black walnut	31.0	21.0		6	G	G	G	Private	2.4	4.0	Retain	0								
1,342	*Juglans nigra*	black walnut	23.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,343	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,344	*Juglans nigra*	black walnut	11.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,345	*Juglans nigra*	black walnut	14.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,346	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0								
1,347	*Juglans nigra*	black walnut	12.0			2	G	G	G	Private	2.4	4.0	Retain	0								
1,348	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,349	*Juglans nigra*	black walnut	16.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,350	*Juglans nigra*	black walnut	20.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,351	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0			x					
1,352	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0			x					
1,353	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,354	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Remove	83.7	Within Site Plan Limits							
1,355	*Juglans nigra*	black walnut	15.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,356	*Juglans nigra*	black walnut	14.0			3	G	G	G	Private	2.4	4.0	Retain	0			x					
1,357	*Juglans nigra*	black walnut	22.0			4	G	G	G	Private	2.4	4.0	Retain	0			x					
1,358	*Juglans nigra*	black walnut	15.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,359	*Juglans nigra*	black walnut	21.0	20.0		4	G	G	G	Private	2.4	4.0	Retain	0								
1,360	*Juglans nigra*	black walnut	10.0			3	G	G	G	Private	1.8	1.8	Retain	0								
1,361	*Juglans nigra*	black walnut	18.0			3	G	G	G	Private	2.4	4.0	Retain	0			x					
1,362	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Remove	85.2	Within Site Plan Limits							
1,363	*Quercus macrocarpa*	bur oak	12.0			2	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,364	*Populus deltoides ssp. deltoides*	eastern cottonwood	13.0	12.0		2	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,365	*Populus deltoides ssp. deltoides*	eastern cottonwood	45.0			4	G	G	G	Private	3.0	5.0	Retain	0			x					
1,366	*Juglans nigra*	black walnut	14.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,367	*Populus deltoides ssp. deltoides*	eastern cottonwood	22.0	15,15,17,21		4	G	G	G	Private	2.4	4.0	Retain	0								
1,368	*Juglans nigra*	black walnut	10.0			2	G	G	G	Private	1.8	1.8	Retain	0								
1,369	*Juglans nigra*	black walnut	13.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,370	*#N/A*	Accolade elm	12.0	10,10,8		3	G	F	G	Private	2.4	4.0	Retain	0								
1,371	*Juglans nigra*	black walnut	26.0			4	G	G	G	Private	2.4	4.0	Retain	0								
1,372	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Retain	0								
1,373	*Prunus avium*	sweet cherry	12.0	9,8	x	2	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							behind fence, tagged on fence
1,374	*Elaeagnus angustifolia*	Russian olive	10.0	7,5	x	3	G	G	G	Private	1.8	1.8	Remove	100	Within Site Plan Limits							behind fence, tagged on fence
1,375	*Juglans nigra*	black walnut	10.0	7.0		3	G	G	G	Private	1.8	1.8	Remove	100	Within Site Plan Limits							
1,376	*Juglans nigra*	black walnut	16.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,377	*Morus alba*	white mulberry	32.0	14,19,11		4	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,378	*Juglans nigra*	black walnut	11.0			3	G	G	G	Private	2.4	4.0	Remove	33.4	Within Site Plan Limits							
1,379	*Juglans nigra*	black walnut	22.0			4	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,380	*Prunus avium*	sweet cherry	13.0			2	G	G	F	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,381	*Elaeagnus angustifolia*	Russian olive	17.0	15.0		4	G	G	F	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,382	*Acer platanoides*	Norway maple	36.0			5	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,383	*Populus deltoides ssp. deltoides*	eastern cottonwood	12.0	11,11		3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,384	*Robinia pseudoacacia*	black locust	10.0	22,22		2	G	G	G	Private	1.8	1.8	Retain	0								
1,384	*Acer saccharinum*	silver maple	23.0	i		4	G	F	G	City	2.4	4.0	Remove	100	Within Site Plan Limits							
1,385	*Ulmus americana*	American elm	13.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,386	*Acer negundo*	Manitoba maple	14.0	11,7,7,12,10		4	G	F	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,387	*Pyrus sp.*	pear	11.0	7,7		3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,388	*Quercus rubra*	red oak	80.0	40,40,20,60	x	8	G	G	G	Private	4.8	8.0	Remove	46.2	Within Site Plan Limits							
1,389	*Tilia americana*	basswood	15.0	8.0	x	2	G	G	G	Private	2.4	4.0	Remove	72.6	Within Site Plan Limits							behind fence, tagged on fence
1,390	*Tilia americana*	basswood	25.0	15,24	x	4	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							behind fence, tagged on fence
1,391	*Tilia americana*	basswood	13.0			3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,392	*Fraxinus americana*	white ash	15.0	10,13,13,9		3	F	F	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							growing through fence
1,393	*Tilia americana*	basswood	13.0	10,9,7		3	G	G	G	Private	2.4	4.0	Remove	100	Within Site Plan Limits							
1,394	*Quercus rubra*	red oak	14.0	12.0		3	G	G	G	Private	2.4	4.0	Remove	46.5	Within Site Plan Limits							
1,395	*Carya ovata var. ovata*	shagbark hickory	17.0			4	G	G	G	Private	2.4	4.0	Remove	46.4	Within Site Plan Limits							growing up against fence
1,396	*Tilia americana*	basswood	18.0			4	G	G	G	Private	2.4	4.0	Remove	75.2	Within Site Plan Limits							
1,397	*Tilia americana*	basswood	16.0			3	G	G	G	Private	2.4	4.0	Remove	75.6	Within Site Plan Limits							
1,398	*Quercus macrocarpa*	bur oak	41.0			5	G	G	G	Private	3.0	5.0	Remove	56.4	Within Site Plan Limits							growing up against fence
1,399	*Carya ovata var. ovata*	shagbark hickory	13.0			3	G	G	F	Private	2.4	4.0	Remove	79.6	Within Site Plan Limits							
1,400	*Tilia americana*	basswood	14.0			2	G	G	G	Private	2.4	4.0	Remove	82.1	Within Site Plan Limits							growing next to fence

Legend

DBH (cm)	Diameter at breast height
TI	Trunk Integrity
CS	Crown Structure
CV	Crown Vigour
DL (m)	Drip Line
CDB	Crown Dieback
EAB	Emerald Ash Borer
ESA/SARA	Species at Risk
TPZ	Tree Protection Zone
Lean Dir.	Lean Direction
PFW	Canopy Pruned for Overhead Wires
GPS Corrected	GPS location corrected due to restricted property access

Condition

G	Good
F	Fair
P	Poor
D	Dead
L	Light
M	Moderate
H	Heavy
E	East
W	West
N	North
S	South
F	Frost
C	Compression
T	Tension
S	Shear Plane

Appendix B
Tree Protection Specifications

CORPORATION OF THE CITY OF BURLINGTON

SPECIFICATIONS

INDEX FOR

Tree Protection and Preservation

(SPEC NO. SS12A)

Amended December 2025

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7. Tree Removal and Relocation 4
8. Site Services or Excavations within the Minimum Tree Protection Zone 4
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1. Scope

This specification describes the measures required to protect trees not designated for removal for all work on public property within the City of Burlington and for those situated on private property within the City's Urban Planning Area Boundary.

2. Definitions

For the purpose of this specification, the following definitions apply:

a) Certified Arborist:
An arborist certified by the International Society of Arboriculture (ISA) who has a diploma (minimum) in arboriculture or urban forestry. They may be required to provide their ISA Certification number. The arborist must have minimum job experience of at least 6 years in Tree Protection and Mitigation;
b) Barrier:
A fence placed around a single tree or group of trees to protect them from removal and injury;
c) Dripline:
The location on the ground surface directly beneath the theoretical vertical line from the tips of the outermost branches of the trees.

3. Application of Policy

a) Tree protection measures are required for City trees and other trees protected by the Public Tree By-law 098-2025 (as amended), and those privately-owned trees protected by the Private Tree By-law 040-2022 (as amended);
b) All trees situated on City property are protected under provisions of the Public Tree By-law (098-2025).
c) Trees that are of permittable size situated on private property are protected under the provisions of the Private Tree By-law (040-2022);
d) Trees protected by the Public Tree By-law (098-2025) may not be removed, injured or destroyed in any way without authorization from the Manager of Urban Forestry or designate. Note that the term "tree" refers to all parts of the tree, including all roots. Trees protected by the Private Tree By-law (040-2022) may not be injured or destroyed without a permit;
e) The specifications set out in this policy shall be the standard specifications for tree protection measures during construction whenever tree protection measures are required by the City and in every instance where construction activities may result in damage to trees;
f) Higher standards of tree protection may be imposed where warranted in the opinion of the Manager of Urban Forestry or designate for municipal trees and for private trees with regard to the size, variety, location, and health of the tree and any circumstances surrounding the construction which may pose a particular hazard to the tree;
g) Lesser standards of tree protection shall only be permitted on the recommendation of a Certified Arborist (as defined in this policy) and with the written consent of the Manager of Urban Forestry or designate; and
h) Anyone failing to adhere to the tree protection policies and specifications outlined below will be financially responsible for any resulting damage to trees.

4. General Policy

Construction activities near trees may result in injury to the trunk, limbs or roots of trees causing damage or death of the tree. In order to prevent such damage:

a) Trees within or adjacent to a construction area must be protected during construction by means of a barrier surrounding the Minimum Tree Protection Zone (MTPZ) as outlined in Sections 5 & 6 of this standard specification;
b) Activities which are likely to injure or destroy the tree are not permitted within the MTPZ. Equipment or

vehicles shall not be operated, parked, repaired or refueled within the dripline of trees;

c) Tree pruning or root cutting of City owned trees is to be done in accordance with Section 8 of this specification;

d) No objects may be attached to trees protected by the Public Tree by-law without written authorization by the City. Construction material, supplies, or equipment and earth shall not be stockpiled within the dripline of any tree;

e) No City tree or tree protected by the Public Tree by-law may be removed without the written permission of the Manager of Urban Forestry or designate; and

f) Exposed roots from excavation must be covered with soil, mulch or burlap and watered within 24 hours of exposure to prevent drying out.

5. The Minimum Tree Protection Zone (MTPZ)

The following is a chart showing minimum required distances for determining a Minimum Tree Protection Zone. Some trees and some site conditions may require a larger Minimum Tree Protection Zone at the discretion of the City.

Table 1 – Minimum Tree Protection Zones

Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100 cm	6.0 m	10.0 m
100 + cm	6.0 m + 10cm per 1cm DBH	10.0 m + 10cm per 1 cm DBH

NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

6. Tree Protection Barriers

Trees within Minimum Tree Protection Zones shall be protected by means of a “tree protection barrier” meeting the following specifications:

a) The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2” x 4” frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.

b) Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.

c) All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports

and bracing should minimize damage to roots.

d) Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.

e) No materials or fill may be stored within the MTPZ.

f) Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.

g) No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.

h) A laminated Minimum Tree Protection Zone sign (see attached) must be attached to the most visible side of the Tree Protection, where it will be visible by those persons entering the site. Minimum size must be 10”x14”.

7. Tree Removal and Relocation

Any requests for removal, cutting, pruning or relocating a tree must be made in writing to the City. If approval is granted for removal of a tree, the contractor will assume all costs involved. In most instances tree replacement or compensation will be required.

8. Site Services or Excavations within the Minimum Tree Protection Zone

It is recognized that there are cases where trees are growing overtop existing underground utilities that may require inspection and/or new installation. While the guidelines in this standard specification still apply, in these cases some modification to the Minimum Tree Protection Zone, in addition to pre-construction pruning, may be required where work within or near the MTPZ is approved by the Manager of Urban Forestry or designate. The objective is to avoid severance of anchor roots and or major branches and minimize damage to the tree(s) and to maintain the natural form of the crown.

a) Above ground clearance for overhanging branches in the work zone must be anticipated. The contractor is required to have a City approved tree service raise the crown of all branches to provide adequate clearance for construction equipment. The cost of above ground pre-construction pruning is to be borne by the party that requires the work to be completed.

b) When excavation is required for inspection (only) of private water and sanitary lateral connections at the property line, are within the limits of the MTPZ and the CRZ and have the potential to damage tree roots, excavation must be completed by a qualified arborist or under an arborist’s supervision using a hydro vacuum unit or air powered soil excavation tools in order to preserve the integrity of the tree’s roots. When new private water and sanitary lines must be installed, and there is not a suitable location outside of the MTPZ and the CRZ, directional micro tunneling and boring is the preferred option for installation within the MTPZ and CRZ.

c) When any site works, are within the limits of the MTPZ and the CRZ and have the potential to damage tree roots, root pruning using a hydro vacuum unit or air powered soil excavation tools is acceptable, provided it is operated by a qualified arborist or under an arborist’s supervision, and completed to a depth of 300mm. Roots are to be cut a maximum of 150 mm from the edge of excavation (grading or removals). The limit of excavation, grading or removals is to be minimized to the greatest extent possible and is to include the use of excavation shoring, smaller excavation equipment or rubber-tired machines. See Detail TP-2 (attached as an appendix) for further information.

9. Tree Repair

Trees damaged by construction operations shall be repaired as follows, within five days of the damage:

a) Branches 25 mm or greater in diameter that are broken shall be cut back cleanly on the tree side of the break or to within 10 mm of their base, if a substantial portion of the branch is damaged.

b) Bark that is damaged shall be neatly trimmed back to the uninjured bark without causing further injury to the tree.

c) Root pruning within the **Minimum Tree Protection Zone** of any tree requires root exploration via supersonic air tool or hydro vacuum unit to first remove the soil and expose the roots.

d) Roots under 2 cm in diameter can be pruned using a sharpened tool such as hand pruners or a sharpened spade under the supervision of the Construction Inspector.

e) Roots between 2 and 8 cm in diameter can be pruned by the arborist using a sharp tool, such as a handsaw, hand pruner or loppers and under the supervision of the Construction Inspector and the advisement of the Project Arborist.

f) All roots over 8 cm in diameter must be assessed by the Project Arborist prior to pruning unless the arborist on-site can confidently assess the effect of the removal of the root as not detrimental to the tree.

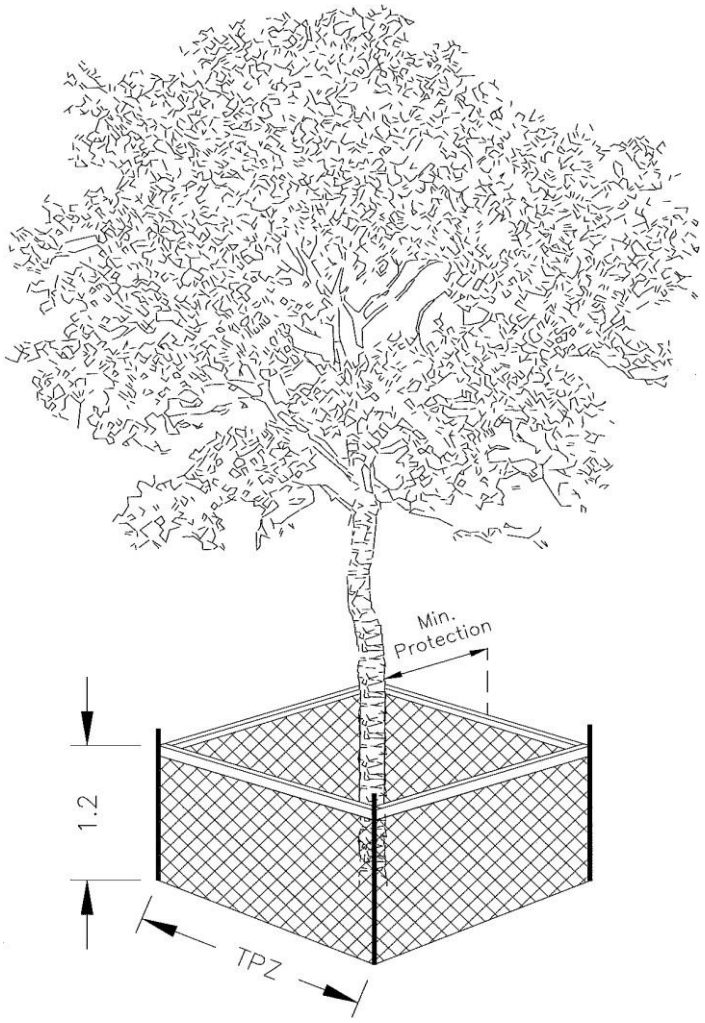
g) Root pruning within the **Critical Root Zone** and outside of the MTPZ, typically requires the use of a sharpened garden spade, cutting a line to a depth of about 30 cm by the on-site arborist under the **advisement of the Project Arborist** if needed. However, the same pruning protocol for the size of roots encountered (in the MTPZ) applies to the roots found within this area.

h) The trenches are typically backfilled with the same excavated soil or new topsoil or compost and hoarding should be installed along this trench to project the remaining roots.

10. Securities for Non-Compliance

Where a tree has been damaged through non-compliance with the Tree Protection and Preservation Specification, any security provided for tree preservation or replacement may be held by the City for up to three (3) years from the date of the final inspection of the construction project. If the tree dies or needs to be replaced within those three years, the Owner shall pay for replacement planting with nursery stock according to the City of Burlington standards. Replacement trees must have a minimum height of 180cm for coniferous trees and 80mm caliper for deciduous replacements. Replacements must be made to the satisfaction of the Manager of Urban Forestry or designate. If the Owner meets their financial obligations and there is no further need to care for the tree, after three (3) years, the City shall return the deposit(s) or the balance of the deposit(s) if the City had to use some of the money for monitoring, preservation or replacement of the tree. If the tree does not recover to the satisfaction of the Manager of Urban Forestry or designate, then the City shall retain the deposit(s) for the continued maintenance, preservation or eventual replacement of the tree. The Owner may be required to post additional securities if, in the opinion of the Manager of Urban Forestry or designate, the saved tree is very damaged and will need on-going monitoring, preservation or replacement that will exceed the cost of the deposit(s) mentioned above.

Securities may be released prior to the expiry of the three-year period provided the City is satisfied that the tree has not been damaged. Applicants for the early release or reduction of securities shall submit a report from a Certified Arborist certifying that the tree is in a state of vigorous health and has not been injured or destroyed as a result of the construction activities.



TREE PROTECTION BARRIER

Detail TP-1 – Tree Protection Detail.

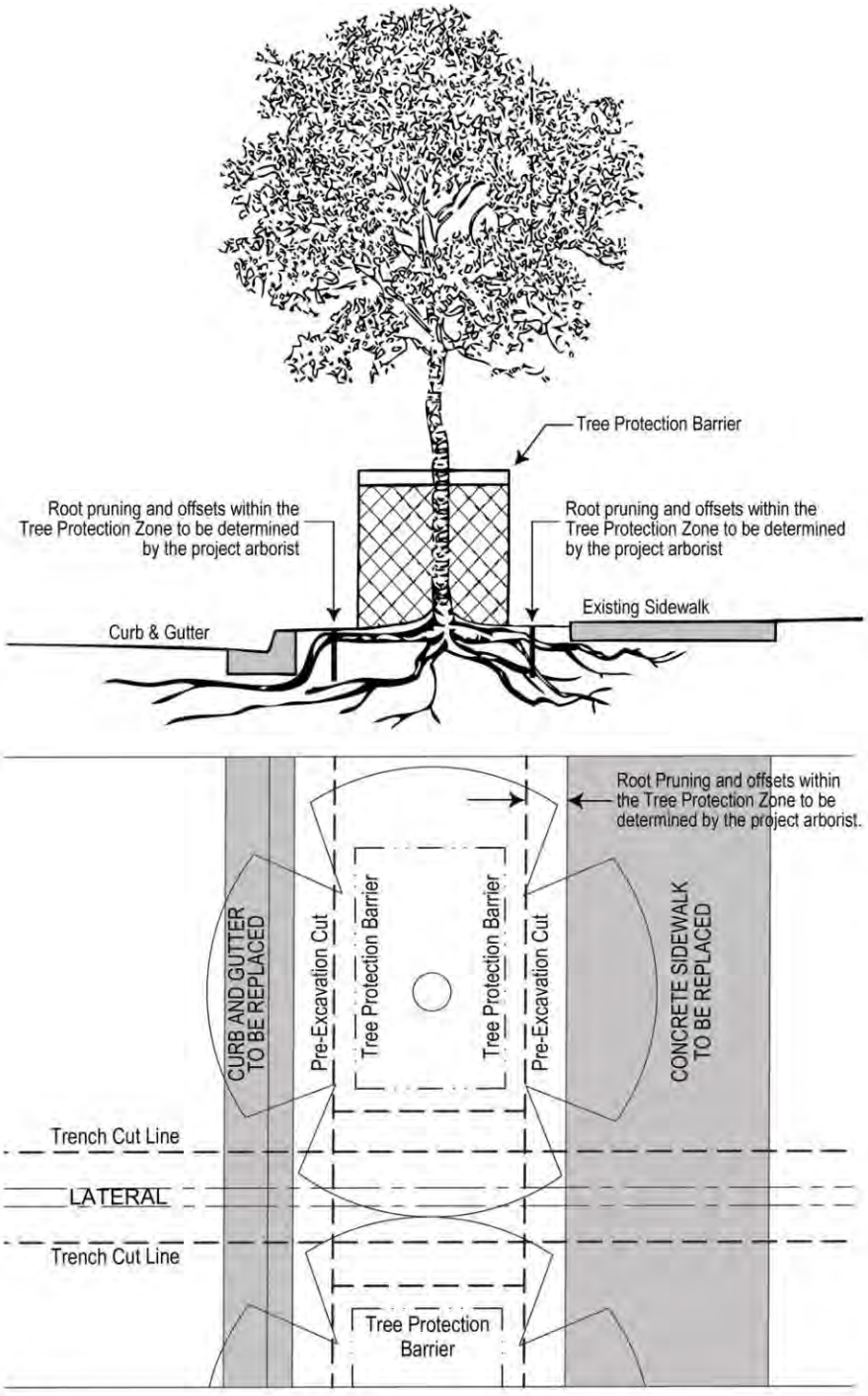
Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) Distances Required [3]	Critical Root Zone (CRZ) Distances Required [3&4]
< 10 cm	1.8 m	1.8 m
11 - 40 cm	2.4 m	4.0 m
41 - 50 cm	3.0 m	5.0 m
51 - 60 cm	3.6 m	6.0 m
61 - 70 cm	4.2 m	7.0 m
71 - 80 cm	4.8 m	8.0 m
81 - 90 cm	5.4 m	9.0 m
91 - 100 cm	6.0 m	10.0 m
100+ cm	6.0m +10cm per 1cm DBH	10.0 m + 10cm per 1cm DBH

NOTES:

[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) is the measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

1. The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2” x 4” frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
2. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the Manager of Urban Forestry or designate.
3. All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports and bracing should minimize damage to roots.
4. Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
5. No materials or fill may be stored within the MTPZ.
6. Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
7. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the Manager of Urban Forestry or designate.
8. A laminated Minimum Tree Protection Zone sign (See Detail TP-3 – Minimum Tree Protection Zone Sign) must be attached to the side of the Tree Protection where it will be visible by persons entering the site. Minimum size must be 10”x14”.

Detail TP-2 – Root Pruning Detail



NOTE:
For excavations perpendicular to to the curbing (ie. sidewalk, curbing, water or sewer laterals renewal)

(a) The contractor is to use a trench box to minimize the width of the open cut.
(b) When the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

Detail TP-3 – Minimum Tree Protection Zone Sign

CITY OF Burlington

TREE PROTECTION ZONE (TPZ)

No equipment or vehicles shall be operated, parked, repaired or refueled within the Tree Protection Zone.

No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

No materials or fill may be stored within the Tree Protection Zone.

This tree protection barrier must not be removed prior to the completion of construction without written authorization from the City of Burlington, Urban Forestry Department.

For more information, please contact 905-335-7777