ARBORIST REPORT

Pertaining to:

2362 Fairview St.
Burlington, ON
L7R 2E4

Prepared for:

McFarlan Tree Care Inc.
572 Huron Dr.
Burlington, ON
L7T 3V5

Prepared by:

Urban Arboretum Tree Consulting
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Created: March 20, 2023
Last revised: March 20, 2023

Introduction

Urban Arboretum Tree Consulting (the arborist) was retained by McFarlan Tree Care Inc. (the client) to complete an arborist report pertaining to 2362 Fairview Street, Burlington (the subject site). The report was requested relative to a proposed multi-residential building (the scope).

The purpose of this report is to:

- Establish species, size and condition of trees as required by the City of Burlington site plan review process & Public Tree By-law 68-2013, also to provide written tree protection recommendations.
- Provide a Tree Protection Plan showing required tree protection measures in accordance with the City of Burlington's Tree Protection and Preservation Specification SS12A & Guide to Tree Protection.

Methodology

1. The subject site was assessed on March 13, 2023 by the arborist.

2. Photos were taken at the time of assessment and the most representative are attached as Appendix I.

3. The methods used to collect data and the information provided in this report complies with the details and instructions provided in the City of Burlington SS12A Standard for Tree Protection and Preservation, Guide to Tree Protection, and Public Tree By-law 068-2013.

4. Trees within the following categories were assessed and recorded in this Arborist Report:

Ownership Category	Description
1 - Private	Trees with diameters of 10 cm or greater, situated on private property on the subject site.
2 – Neighbor	Trees with diameters of 10 cm or greater, situated on private property within 6 meters of the subject site.
5 – Public	Trees of all diameters situated within City property.
6 – Boundary	Trees located on the property line with an adjoining site where the property line crosses the main stem of the tree prior to the formation of the first scaffold limb.

5. Trunk diameter was measured using a calibrated diameter tape. The measurement was taken at 1.4 meters above ground level, generally referred to as the diameter at breast height (DBH). For trees located on adjacent private property DBH was estimated.

6. Trees were assessed in consideration of overall biological condition and structural condition and assigned a condition rating ranging from good (70-100%) to fair (40-69%) to poor (0-39%) for both categories.

7. Tree protection comments were added by the arborist to a site plan provided by the client dated March 8, 2022.

Tree Protection Plan

Pre-Construction

1. The following tree protection measures must be read in conjunction with the Tree Protection Plan (Appendix III). Both documents must be provided to the site supervisor prior to any work commencing on the site.

2. No disturbance is allowed within the Tree Protection Zone (TPZ) of protected trees without permission from the City of Burlington.

Trunk Diameter (DBH)	Minimum Tree Protection Zone (MTPZ)	Critical Root Zone (CRZ)
< 10 cm	1.8 m	1.8m
10 - 40 cm	2.4 m	4.0m
41 - 50 cm	3.0 m	5.0m
51 – 60 cm	3.6 m	6.0m
61 – 70 cm	4.2 m	7.0m
71 – 80 cm	4.8 m	8.0m
81 – 90 cm	5.4 m	9.0m
91-100+ cm	6 m	10.0m

3. Tree Protection Zones (TPZ) distances must be measured from the outside edge at the base of the tree.

4. The City of Burlington requires signs to be mounted on the construction-facing side of the tree protection barriers for the duration of the project. Signs can be found in the City of Burlington SS12A Standard Specification for Tree Protection and Preservation document detail TP-3. Tree protection sign example:



5. Once all tree protection measures have been installed, City of Burlington Forestry staff must be contacted to arrange for an inspection of the site and approval of the tree protection requirements. Photographs that clearly show the installed tree protection shall be provided for City of Burlington Forestry staff review.

Construction Phase

6. It is the responsibility of the site supervisor to inspect the condition of the tree protection measures outlined on the tree protection plan and within this report each morning. If disturbance to the barriers is observed, it is to be repaired prior to work commencing on site that day.

7. Tree protection barriers must remain in place and in good condition during demolition, construction and/or site disturbance, including landscaping, and must not be altered, moved, or removed until authorized by Urban Forestry.

8. During construction, if any tree roots are exposed or disturbed outside the tree protection zone (TPZ), care is to be taken to minimize their disturbance. If roots must be removed outside the TPZ, they are to be cleanly pruned. Tearing roots hinders wound closure and can increase risk of disease and root rot.

Post-Construction

9. At the completion of the project, Urban Forestry is to be notified prior to removal of the tree protection fencing on the site. With approval, the fencing may be dismantled.

Additional Notes

1. For additional information on tree care and management techniques as a tree owner see http://www.treesaregood.com/treeowner/treeownerinformation.aspx for a list of educational brochures provided by the International Society of Arboriculture.

Questions or requests for additional information relative to this report should be directed to the undersigned at 647-884-7716.



Kyle Berwick, N.P.D., R.P.F. in Training
I.S.A. Board Certified Master Arborist # ON-1786B
I.S.A. Tree Risk Assessment Qualified
Certified Butternut Health Assessor #437

Limitations of Assessment

It is the policy of Urban Arboretum Tree Consulting to attach the following clause regarding limitations. We do this to ensure that the client is aware of what is technically and professionally realistic in assessing and retaining trees.

The assessment(s) of the tree(s) presented in this report have been made using accepted and proper arboricultural techniques. This includes an aboveground examination of the tree(s) including but not limited to evidence of structural defects, external indications of rot or decay, cracking, included bark unions, pests and diseases, foliage and shoot health, natural or unnatural lean, root structures, site conditions, proximity to property and people. Unless otherwise noted assessments do not include probing, coring, sounding, climbing assessments, root excavation, pull testing, or any other advanced assessment techniques.

Notwithstanding the recommendations and conclusions in this report, it must be recognized that trees are living organisms and their health, structure and vigor are constantly changing. They can be susceptible to changes in the seasons or weather conditions. Weather events such as windstorms, ice storms and thunderstorms may result in partial or complete tree failure regardless of assessment results.

While reasonable efforts have been made to accurately assess the overall condition of the subject tree(s), no guarantee or warranty is offered, expressed, or implied, that the tree(s) or any of its parts will remain standing or in stable condition. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or its component parts, regardless of the assessment methodology implemented. Inevitably a standing tree will always pose some level of risk. Most trees have the potential for failure in adverse weather conditions.

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



Kyle Berwick, N.P.D., R.P.F. in Training
I.S.A. Board Certified Master Arborist # ON-1786B
I.S.A. Tree Risk Assessment Qualified
Certified Butternut Health Assessor #437

Appendix I – Photographs



Photo 1. Trees 1-10.



Photo 2. Trees 6 & 11.



Photo 3. Trees 12-14.



Photo 4. Trees 14-18.



Photo 5. Trees 19-26.



Photo 6. Trees 26-36.



Photo 7. Trees 37 & 38.

Appendix II – Tree Inventory

Date: March 20, 2023

Urban Arboretum

Chart Details:

Tree #: Inventoried trees were assigned an identification number
Species: Includes the botanical name and common name of each tree.
DBH: Diameter in cm measured at 1.4 meters from the ground (diameter at breast height). DBH measurements for trees on neighboring properties are estimated.
Crown Radius: Average radius of drip line in meters.
Biological Condition Rating: Overall condition rating from good (70-100%) to fair(40-69%) to poor (0-39%) based on overall health.
Structural Condition Rating: Overall rating from good (70-100%) to fair(40-69%) to poor (0-39%) based on tree Structure.
Condition Comments: Specific observations from the visual assessment that have informed the condition rating.
Minimum TPZ: Minimum required tree protection zone in meters.
CRZ: Critical Root Zone distance in meters.
Ownership Category: Ownership of tree based on the supplied survey.
Recommended Action & Details: Arborist Recommendations.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
1	*Syringa reticulata* (ivory silk lilac)	6	0.5	Fair	Fair	Decurrent habit; fair shoot extension.	1.8	1.8	Public	**Preserve** - Tree protection fence.
2	*Syringa reticulata* (ivory silk lilac)	6.5	0.5	Good	Fair	Decurrent habit; good shoot extension.	1.8	1.8	Public	**Remove** - Due to proposed entrance.
3	*Syringa reticulata* (ivory silk lilac)	5	0.5	Fair	Fair	Decurrent habit; fair shoot extension; epicormics around base.	1.8	1.8	Public	**Remove** - Due to proposed entrance.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
4	*Syringa reticulata* (ivory silk lilac)	5.5	0.5	Fair	Fair	Decurrent habit; stunted growth.	1.8	1.8	Public	**Preserve** - Tree protection fence.
5	*Syringa reticulata* (ivory silk lilac)	5	0.5	Poor	Fair	No visible living buds; likely dead.	1.8	1.8	Public	**Preserve** - Tree protection fence.
6	*Acer saccharinum* (silver maple)	57.5	5	Poor	Poor	Significant storm damage; 50% dead; heavy past suckering pruned from trunk; evidence of internal decay.	3.6	6	Public	**Preserve** - Tree protection fence.
7	*Celtis occidentalis* (hackberry)	22	2	Good	Poor	22cm DRH @ ~50cm; seven main stems at ~55cm; good shoot extension.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
8	*Acer platanoides* (Norway maple)	20	2.5	Good	Good	Good central leader; good shoot extension.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
9	*Picea pungens* (blue spruce)	36	3	Fair	Good	Good central leader; minor lower twig dieback on road side.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
10	*Picea pungens* (blue spruce)	41.5	3.5	Fair	Good	Significant Cooley Gall infestation; good central leader; moderate cytospora canker on trunk; full crown.	3	5	Private	**Remove** - Due to estimated underground parking over dig.
11	*Acer negundo* (Manitoba maple)	19	2	Good	Poor	Ten stems from base (7, 7, 6, 6, 5, 5, 6, 6, 7 & 6cm DBH); good shoot extension.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
12	*Ulmus pumlia* (Siberian elm)	20	2.5	Fair	Fair	Decurrent habit; fair budset.	2.4	4	Potential Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
13	*Ulmus pumlia* (Siberian elm)	17	2	Fair	Fair	Growing through fence; Two main stems at ~1m (12 & 12cmDBH) with a fair union; fair budset.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
14	*Catalpa speciosa* (Northern catalpa)	12	2	Fair	Good	Good central leader; fair shoot extension.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.

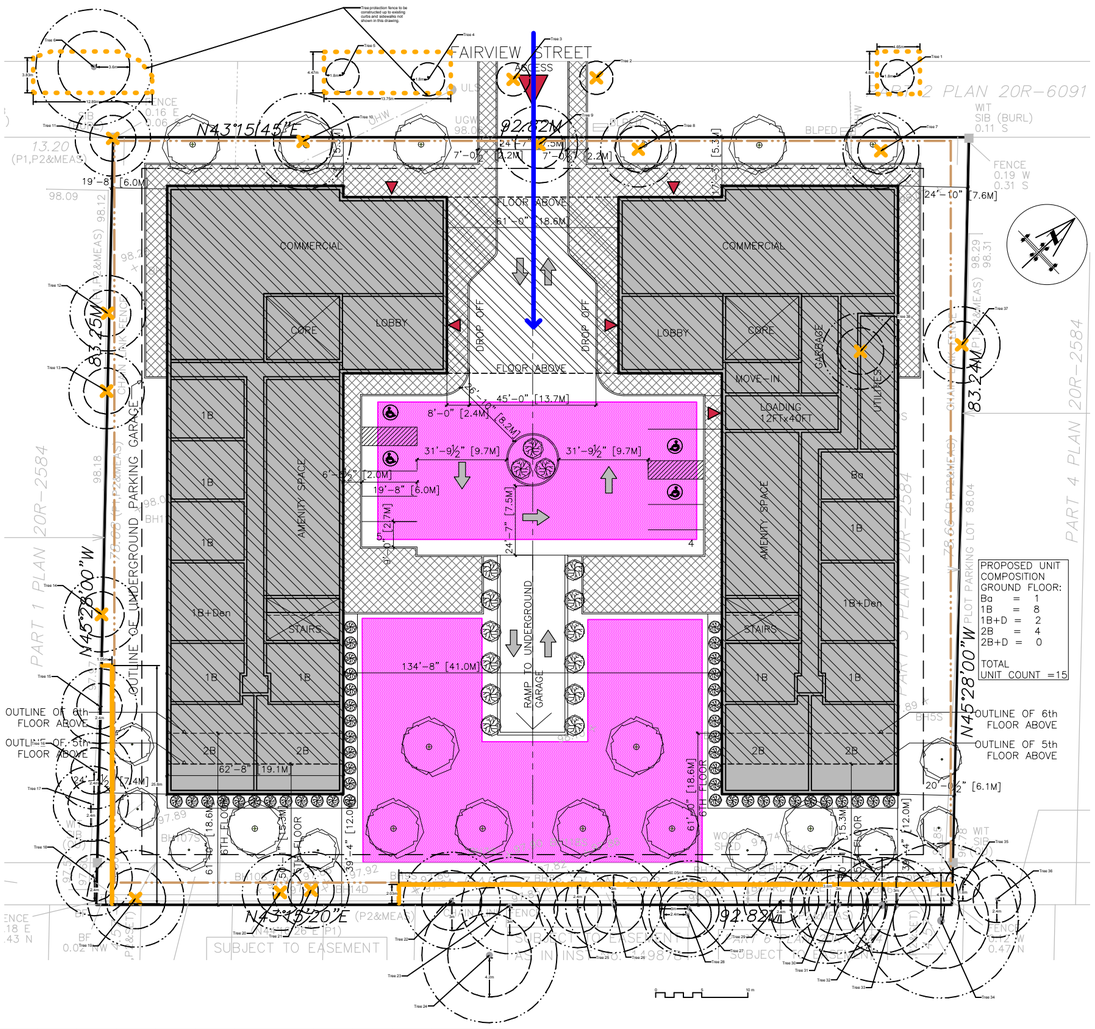
Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
15	*Ulmus pumlia* (Siberian elm)	11	2	Fair	Fair	Decurrent habit; fair budset.	2.4	4	Boundary 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
16	*Catalpa speciosa* (Northern catalpa)	21	3	Fair	Fair	Two main stems from base (17 & 13cmDBH); mechanical wounds on trunk; fair shoot extension.	2.4	4	Neighbor 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
17	*Ulmus pumlia* (Siberian elm)	14	2	Fair	Fair	Codominant leaders; fair budset.	2.4	4	Neighbor 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
18	*Acer negundo* (Manitoba maple)	23	4	Fair	Fair	Decurrent habit; fair shoot extension.	2.4	4	Potential Boundary 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
19	*Ulmus pumlia* (Siberian elm)	50	10	Good	Fair	Moderate deadwood; bacterial wetwood on scaffold limbs and trunk; good bud set.	3	5	Private	**Remove** - Due to estimated underground parking over dig.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
20	*Ulmus pumlia* (Siberian elm)	23	3	Good	Fair	Decurrent habit; good budset.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
21	*Ulmus pumlia* (Siberian elm)	24	4	Fair	Fair	Bifurcates at ~6m with fair union; fair budset.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
22	*Acer negundo* (Manitoba maple)	50	4	Fair	Fair	Moderate deadwood; natural lean; fair shoot extension.	3	5	Boundary 2355 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
23	*Acer negundo* (Manitoba maple)	45	4	Good	Fair	Natural lean; past heading pruning cuts; good shoot extension.	3	5	Boundary 2357 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
24	*Populus deltoides* (Eastern Cottonwood)	65	8	Good	Good	Fair central leader; good bud set.	4.2	7	Neighbor 2355 Barclay Rd	**Preserve** - Tree protection fence.
25	*Acer negundo* (Manitoba maple)	35	1	Fair	Poor	Failed at ~6m; epicormics on trunk.	2.4	4	Boundary 2357 Barclay Rd	**Injure** - within CRZ due to estimated underground parking over dig.
26	*Acer negundo* (Manitoba maple)	45	5	Good	Poor	Large past storm damage into trunk; good shoot extension.	3	5	Boundary 2361 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.

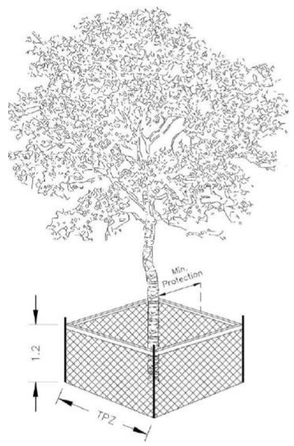
Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
27	*Ulmus pumlia* (Siberian elm)	42	8	Fair	Fair	Two stems from base (~30 & 30cm DBH); moderate deadwood; good budset.	3	5	Neighbor 2363 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
28	*Ulmus pumlia* (Siberian elm)	35	7	Fair	Fair	Decurrent habit; moderate deadwood; good budset.	2.4	4	Neighbor 2363 Barclay Rd	**Injure** - within CRZ due to estimated underground parking over dig.
29	*Acer negundo* (Manitoba maple)	15	3	Good	Fair	Decurrent habit; good shoot extension.	2.4	4	Potential Boundary 2367 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
30	*Ulmus pumlia* (Siberian elm)	55	7	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	3.6	6	Boundary 2367 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
31	*Ulmus pumlia* (Siberian elm)	50	7	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	3	5	Boundary 2367 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
32	*Ulmus pumlia* (Siberian elm)	75	9	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	4.8	8	Boundary 2369 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition	Structural Condition	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
33	*Ulmus pumlia* (Siberian elm)	45	4	Fair	Poor	Topped under utility lines; crown mainly large epicormic growth.	3	5	Boundary 2369 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
34	*Acer saccharinum* (silver maple)	77	5	Fair	Poor	Four main stems (~50, 30, 30 & 40cm DBH); large past storm damage; sparse.	4.8	8	Neighbor 2369 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
35	*Gleditsia triacanthos var. inermis* (thornless honey locust)	8.5	2	Fair	Fair	Suppressed by Tree 36; fair shoot extension.	1.8	1.8	Neighbor 2388 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
36	*Morus alba* (white mulberry)	33	5	Good	Fair	Bifurcates at ~6m with fair union; significant past storm damage; good shoot extension.	2.4	4	Neighbor 2388 Fairview St	**Preserve**
37	*Ulmus pumlia* (Siberian elm)	28.5	3	Fair	Fair	Three main with narrow unions; moderate deadwood; fair budset.	2.4	4	Potential Boundary 2388 Fairview St	**Remove** - Due to estimated underground parking over dig.
38	*Populus deltoides* (Eastern Cottonwood)	25	3.5	Good	Fair	Bifurcates at ~2m with a fair union; good budset.	2.4	4	Private	**Remove** - Due to proposed new building.

Appendix III – Tree Protection Plan



Tree Protection and Preservation Specification No.: SS12A



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

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.

TREE PROTECTION BARRIER

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".

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition Rating	Structural Condition Rating	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
1	*Syringa reticulata* (Ivory silk lilac)	6	0.5	Fair	Fair	Decurrent habit; fair shoot extension.	1.8	1.8	Public	**Preserve** - Tree protection fence.
2	*Syringa reticulata* (Ivory silk lilac)	6.5	0.5	Good	Fair	Decurrent habit; good shoot extension.	1.8	1.8	Public	**Remove** - Due to proposed entrance.
3	*Syringa reticulata* (Ivory silk lilac)	5	0.5	Fair	Fair	Decurrent habit; fair shoot extension; epicormics around base.	1.8	1.8	Public	**Remove** - Due to proposed entrance.
4	*Syringa reticulata* (Ivory silk lilac)	5.5	0.5	Fair	Fair	Decurrent habit; stunted growth.	1.8	1.8	Public	**Preserve** - Tree protection fence.
5	*Syringa reticulata* (Ivory silk lilac)	5	0.5	Poor	Fair	No visible living buds; likely dead.	1.8	1.8	Public	**Preserve** - Tree protection fence.
6	*Acer saccharinum* (silver maple)	57.5	5	Poor	Poor	Significant storm damage; 50% dead; heavy past suckering pruned from trunk; extensive rot of essential decay.	3.6	6	Public	**Preserve** - Tree protection fence.
7	*Celtis occidentalis* (hackberry)	22	2	Good	Poor	22cm DRH @ ~50cm; seven main stems at ~0.5cm; good shoot extension.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
8	*Acer platanoides* (Norway maple)	20	2.5	Good	Good	Good central leader; good shoot extension.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
9	*Picea pungens* (blue spruce)	36	3	Fair	Good	Good central leader; minor lower twig dieback on road side.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
10	*Picea pungens* (blue spruce)	41.5	3.5	Fair	Good	Significant Cooley Gall infestation; good central leader; moderate cytospora canker on trunk; full crown.	3	5	Private	**Remove** - Due to estimated underground parking over dig.
11	*Acer negundo* (Manitoba maple)	19	2	Good	Poor	Ten stems from base (7, 7, 6, 6, 5, 5, 6, 6, 7 & 6cm DBH); good shoot extension.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
12	*Ulmus pumila* (Siberian elm)	20	2.5	Fair	Fair	Decurrent habit; fair budset.	2.4	4	Potential Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
13	*Ulmus pumila* (Siberian elm)	17	2	Fair	Fair	Growing through fence; Two main stems at ~1m (12 & 12cmDBH) with a fair union; fair budset.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
14	*Catalpa speciosa* (Northern catalpa)	12	2	Fair	Good	Good central leader; fair shoot extension.	2.4	4	Boundary 2340 Fairview St	**Remove** - Due to estimated underground parking over dig.
15	*Ulmus pumila* (Siberian elm)	11	2	Fair	Fair	Decurrent habit; fair budset.	2.4	4	Boundary 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
16	*Catalpa speciosa* (Northern catalpa)	21	3	Fair	Fair	Two main stems from base (17 & 13cmDBH); Codominant leaders on trunk; fair shoot extension.	2.4	4	Neighbor 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
17	*Ulmus pumila* (Siberian elm)	14	2	Fair	Fair	Codominant leaders; fair budset.	2.4	4	Neighbor 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
18	*Acer negundo* (Manitoba maple)	23	4	Fair	Fair	Decurrent habit; fair shoot extension.	2.4	4	Potential Boundary 2340 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
19	*Ulmus pumila* (Siberian elm)	50	10	Good	Fair	Moderate deadwood; bacterial wetwood on scaffold limbs and trunk; good bud set.	3	5	Private	**Remove** - Due to estimated underground parking over dig.

Tree #	Species	DBH (cm)	Crown Radius (m)	Biological Condition Rating	Structural Condition Rating	Condition Comments	Min TPZ (m)	CRZ (m)	Ownership Category	Recommended Action & Details
20	*Ulmus pumila* (Siberian elm)	23	3	Good	Fair	Decurrent habit; good budset.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
21	*Ulmus pumila* (Siberian elm)	24	4	Fair	Fair	Bifurcates at ~4m with fair union; fair budset.	2.4	4	Private	**Remove** - Due to estimated underground parking over dig.
22	*Acer negundo* (Manitoba maple)	50	4	Fair	Fair	Moderate deadwood; natural lean; fair shoot extension.	3	5	Boundary 2355 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
23	*Acer negundo* (Manitoba maple)	45	4	Good	Fair	Natural lean; past heading pruning cuts; good shoot extension.	3	5	Boundary 2357 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
24	*Populus deltoides* (Eastern Cottonwood)	65	8	Good	Good	Fair central leader; good bud set.	4.2	7	Neighbor 2355 Barclay Rd	**Preserve** - Tree protection fence.
25	*Acer negundo* (Manitoba maple)	35	1	Fair	Poor	Failed at ~4m; epicormics on trunk.	2.4	4	Boundary 2357 Barclay Rd	**Injure** - within CRZ due to estimated underground parking over dig.
26	*Acer negundo* (Manitoba maple)	45	5	Good	Poor	Large past storm damage into trunk; good shoot extension.	3	5	Boundary 2361 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
27	*Ulmus pumila* (Siberian elm)	42	8	Fair	Fair	Two stems from base (~30 & 30cm DBH); moderate deadwood; good budset.	3	5	Neighbor 2343 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
28	*Ulmus pumila* (Siberian elm)	35	7	Fair	Fair	Decurrent habit; moderate deadwood; good budset.	2.4	4	Neighbor 2343 Barclay Rd	**Injure** - within CRZ due to estimated underground parking over dig.
29	*Acer negundo* (Manitoba maple)	15	3	Good	Fair	Decurrent habit; good shoot extension.	2.4	4	Potential Boundary 2343 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
30	*Ulmus pumila* (Siberian elm)	55	7	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	3.6	6	Boundary 2347 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
31	*Ulmus pumila* (Siberian elm)	50	7	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	3	5	Boundary 2347 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
32	*Ulmus pumila* (Siberian elm)	75	9	Fair	Fair	Decurrent habit; moderate deadwood; fair budset.	4.8	8	Boundary 2349 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
33	*Ulmus pumila* (Siberian elm)	45	4	Fair	Poor	Topped under utility lines; crown mainly large epicormic growth.	3	5	Boundary 2349 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
34	*Acer saccharinum* (silver maple)	77	5	Fair	Poor	Four main stems (~50, 30, 30 & 40cm DBH); large past storm damage, sprite	4.8	8	Neighbor 2349 Barclay Rd	**Injure** - within MTPZ due to estimated underground parking over dig.
35	*Gleditsia triacanthos var. inermis* (thornless honey locust)	8.5	2	Fair	Fair	Suppressed by Tree 34; fair shoot extension.	1.8	1.8	Neighbor 2388 Fairview St	**Injure** - within MTPZ due to estimated underground parking over dig.
36	*Morus alba* (white mulberry)	33	5	Good	Fair	Bifurcates at ~4m with fair union; significant past storm damage, good shoot extension.	2.4	4	Neighbor 2388 Fairview St	**Preserve**
37	*Ulmus pumila* (Siberian elm)	28.5	3	Fair	Fair	Three main with narrow unions; moderate deadwood; fair budset.	2.4	4	Potential Boundary 2388 Fairview St	**Remove** - Due to estimated underground parking over dig.
38	*Populus deltoides* (Eastern Cottonwood)	25	3.5	Good	Fair	Bifurcates at ~2m with a fair union; good budset.	2.4	4	Private	**Remove** - Due to proposed new building.

Tree Protection Comments:

•Tree protection comments were added by the arborist to a site plan provided by the client dated March 8, 2022.

• It is the responsibility of the site supervisor to inspect the condition of the tree protection measures outlined on the tree protection plan each morning. If disturbance to the barriers is observed, it is to be repaired prior to work commencing on site that day.

• Tree protection barriers must remain in place and in good condition during demolition, construction and/or site disturbance, including landscaping, and must not be altered, moved or removed until authorized by Urban Forestry.

• Tree Protection Zones (TPZ) distances must be measured from the outside edge at the base of the tree.

• During construction, if any tree roots are exposed or disturbed outside the tree protection zone (TPZ), care is to be taken to minimize their disturbance. If roots must be removed outside the TPZ, they are to be cleanly pruned. Tearing roots hinders wound closure and can increase risk of disease and root rot.

• All landscape and construction work within the Minimum Tree Protection Zones (MTPZs) of affected trees must be competed using hand tools only.

• At the completion of the project, the Forestry Department is to be notified prior to removal of the tree protection fencing on the site. With approval, the fencing may be dismantled.

Tree Protection Plan
Appendix III

2362 Fairview St.
Burlington, ON.

Legend:

- Tree Removal
- 4' Tall Plywood Tree Protection Fencing
- 4' Tall Snow Fence Tree Protection Fencing
- Minimum Tree Protection Zone
- Material Storage Area
- Site Access Route Approx. Width: 3m
- Estimated Overdig
- Critical Root Zone

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Scale: 1 - 500

Drawn By: Kyle Berwick

Last Revised: Mar 20, 2023

Date Created: Mar 20, 2023

Drawing No.

TPP1