GLN
FARM & FOREST

Arborist Report and Tree Preservation Plan

For:
BROOKLYN CONSTRUCTION

Regarding:
276 – 292 Plains Rd East

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Arborist Report and Tree Preservation Plan

Client
292 Plains Rd East, and 292 Plains Rd East

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Contents

SUMMARY **1**
INTRODUCTION **1**
Background and History 1
Assignment 1
Limits of the Assignment 1
Purpose and Use of This Report 1
Methodology 1
SITE **2**
Current Site Characteristics 2
Proposed Construction 2
Construction Phases and Anticipated Injury to Encroachment Ratios 2
TREE INVENTORY SUMMARY **3**
Tree Population 3
Overview 3
Species Distribution 4
Trees Receiving TPZ Encroachment or Proposed for Removal 5
Trees Proposed for Removal for Construction 6
ANALYSIS OF PROPOSED ENCROACHMENTS **9**
Impacted Trees: 9
ARBORIST MINIMZATION OF DAMAGE RECOMMENDATIONS **10**
Pre-Construction Phase 10
Construction Phases 11
Post-Construction 12
GENERAL TREE PROTECTION GUIDELINES **13**
Tree Protection Zones 13
Tree Protection Barriers 13
General Note 13
Arboricultural Work 13
APPENDIX I – TREE INVENTORY AND SUMMARY TABLES **14**
Tree Inventory 14
Summary Tables 26
Trees by Owner 26
Summary of Trees by Status 26
Summary of Permit Requirements by Jurisdiction 26
APPENDIX II – ARBORIST'S DECLARATIONS ..... **I**
Certificate of Performance ii
Assumptions and Limiting Conditions iii
Disclaimer iv
APPENDIX III – METHODOLGY ..... **I**
Location i
Measurements i
Evaluation of Tree Condition ii
Appraisal ii
Assessment of TPZ Encroachment and Anticipated Impact ii
APPENDIX IV – DRAWING REFERENCE ..... **I**
Drawing Indexing and Content i
APPENDIX V – DRAWINGS ..... **I**

SUMMARY

The proposed construction will require the removal of 37 bylaw-significant sized trees (20cm dbh or greater) and 15 small sized trees. An additional 5 trees, located at the rear of the site, will incur minor to moderate encroachment into their protected root zones.
Per City of Burlington specifications, replacement planting of 59 trees will be required as compensation for removals. Where the full 59 trees cannot be planted on the site, cash-in-lieu compensation of $250 per remaining tree may be levied by the City of Burlington.

INTRODUCTION

Background and History

The sites – 276, 284 and 292 Plains Road East, Burlington – are currently separate lots with 2-storey residential-style buildings on 284 and 292, and a commercial building on 276. 284 and 292 are currently unoccupied and have been most recently used as commercial facilities.

Assignment

The arborist was retained in July 2023 to prepare an Arborist Report and Tree Preservation Plan for the Client property located at 292 Plains Rd East, and 292 Plains Rd East for submission to Burlington Forestry Department as required by the City of Burlington tree protection by-laws.
The report is to include an inventory and location (tree survey) including rating and comments (where required) regarding the current Health and Soundness of each subject tree. Additionally, plan drawings showing proposed construction and tree preservation fencing, any tpz area encroachments, and proposed tree removals, at minimum, are also included.

Limits of the Assignment

Unless specifically noted, all trees are rated by Limited Visual Assessment (Ground-based), and no exploratory excavation was, or is to be, conducted to verify the presence or absence of tree roots in a given area.

Purpose and Use of This Report

This report is intended to outline all encroachments, tree injuries, and tree removals resulting from the proposed construction (or otherwise proposed by the client) as outlined in subsequent sections for review and approval by the Burlington Forestry Department. It should be noted that the approval, waiver, exemption, or denial of Approvals and/or any necessary Permits rests strictly with the Burlington Forestry Department.

Methodology

For details regarding the onsite protocols and methods used in the creation of this report, please see Appendix II - Methodology

SITE

Current Site Characteristics

The sites currently consists of a detached dwellings (with prior additional commercial use) on 284 and 292 Plains Road, and an occupied commercial building on 276 Plains Road.

Proposed Construction

Tree inventory preservation plan for demolition of existing structures and construction of new building on the combined lots.

Construction Phases and Anticipated Injury to Encroachment Ratios

HARDSCAPE - PLAINS ROAD CONCRETE SURFACES – HARDSCAPE - PLAINS ROAD CONCRETE SURFACES

Initial Assumptions Regarding Proposed Work

Encroachment Type: Sidewalk
Maximum Excavation Depth (m): 0
Maximum Build Height or Clearance (m): 3

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)
Root Zone: 0.5 **Canopy:** 0.5

CONSTRUCTION - BUILDING AND UNDERGROUND PARKING – CONSTRUCTION - BUILDING AND UNDERGROUND PARKING

Initial Assumptions Regarding Proposed Work

Encroachment Type: Full Foundation
Maximum Excavation Depth (m): 6
Maximum Build Height or Clearance (m): 20

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)
Root Zone: 1 **Canopy:** 1

DRIVEWAY PORTIONS OUTSIDE OTHER CONSTRUCTION ENVELOPES – DRIVEWAY PORTIONS OUTSIDE OTHER CONSTRUCTION ENVELOPES

Initial Assumptions Regarding Proposed Work

Encroachment Type: Asphalt Driveway
Maximum Excavation Depth (m): 0
Maximum Build Height or Clearance (m): 0

Assumed Ratio of Injury to Encroachment

(Injury = Ratio x Encroachment)
Root Zone: 0.75 **Canopy:** 0

TREE INVENTORY SUMMARY

Tree Population

Overview

There were Seventy-Three (73) trees inventoried within the scope of this survey. Of these, there are Forty-Six (46) of "significant size" regulated under the Private and/or Public tree bylaws on the municipality and/or region. Trees regulated under these bylaws and considered "significant size" are as follows:

20 cm or larger in DBH located on private land, or

A tree of any size, which is located on Municipal/Public land.

The following outlines the distribution of all trees within the inventory presenting their deemed ownership (location), and further presents a species distribution for the site.

Burlington Forestry Department

There are a total of Forty Six (46) trees of significant size (DBH of 20cm or greater) located on, or adjacent to the client site within the area of the Burlington Forestry Department, and within the scope of this project.

Of these:

- Client Tree 24
- Client/Neighbor Shared Ownership Tree 5
- Neighbor owned tree 17
- Small sized (<20cm dbh) trees 27

Species Distribution

Species distribution (significant size trees only), average DBH, and count are as follows:

Species	Count	Average DBH (cm)
White Fir *Abies concolor*	1	48.0
boxelder, Ash-leaved Maple *Acer negundo*	1	35.0
Norway maple *Acer platanoides*	2	49.0
paper birch *Betula papyrifera*	1	44.0
katsura tree *Cercidiphyllum japonicum*	3	28.7
maidenhair tree *Ginkgo biloba*	1	25.0
thornless honey locust *Gleditsia triacanthos var inermis*	1	69.0
sweetgum *Liquidambar styraciflua*	1	23.0
Magnolia Species *Magnolia spp*	1	37.0
white mulberry *Morus alba*	2	24.0
Norway spruce *Picea abies*	17	39.9
Serbian Spruce *Picea omorika*	2	35.5
blue spruce *Picea pungens*	2	36.0
Austrian pine *Pinus nigra*	8	46.4
Japanese tree lilac *Syringa reticulata*	1	21.0
White Cedar, Arborvitae *Thuja occidentalis*	1	24.0
Siberian elm *Ulmus pumila*	1	24.0

Trees Receiving TPZ Encroachment or Proposed for Removal

This section lists all trees which will receive encroachment/injury or require removal as a result of the proposed construction activities, and/or their current condition. The City of Burlington must approve a Permit to Injure or Permit to Remove, where construction activities (including access) are to take place within the Tree Protection Zone of a tree which is:

20cm or larger in DBH located on private land, or

A tree of any size, which is located on Municipal/Public land.

Trees located on Municipal land may be removed only with the consent of City of Burlington, and may be subject to additional fees at the discretion of, the Municipality.

Additionally, any tree requiring a Permit to Remove may be subject to a Tree Replacement Requirement specifying the number of replacement trees to be planted on the site, or in some case, 'cash-in-lieu' where such planting would be infeasible.

Trees Proposed to Receive Encroachment into the Protected Root Zone Area

Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Injury
229 **Austrian Pine {Pinus nigra)** **Client Tree**	44 cm 8.0 M	Moderate injury due to excavation for primary construction.
231 **Austrian Pine {Pinus nigra)** **Client Tree**	47 cm 6.0 M	Minor injury due to excavation for primary construction.
233 **Austrian Pine {Pinus nigra)** **Client Tree**	48 cm 8.0 M	Moderate injury due to excavation for primary construction.
234 **Austrian Pine {Pinus nigra)** **Client Tree**	45 cm 10.0 M	Minor injury due to excavation for primary construction.
302 **Blue Spruce {Picea pungens)** **Client Tree**	45 cm 8.0 M	Trivial injury (Injury <3%) due to excavation for primary construction.

Please see subsequent section of this report for a detailed analysis of all of the above proposed injuries, as well as recommendations for the minimization of damages in these areas.

Injuries to smaller trees

The following small-sized trees (not subject to Tree Protection Bylaw) may also incur some injury as a result of the proposed construction.

204 (White Mulberry – Neighbor-owned Tree), 307 (Norway Maple – Neighbor-owned Tree), 308 (Norway Maple – Neighbor-owned Tree), 309 (White Cedar),

Trees Proposed for Removal for Construction

There are 37 of significant sized trees (20cm dbh and greater) within the scope of this project, which will require removal.

Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal	Compensation Required (Trees)
219 Sweetgum {Liquidambar styraciflua) Client Tree	23 6.0	Within zone of excavation for primary construction.	2
221 Katsura Tree {Cercidiphyllum japonicum) Client Tree	37 8.0	Within zone of excavation for primary construction.	3
222 Katsura Tree {Cercidiphyllum japonicum) Client Tree	29 6.0	Compromised (Injury >30%) due to excavation for primary construction.	2
224 Katsura Tree {Cercidiphyllum japonicum) Client Tree	20 6.0	Within zone of excavation for primary construction.	2
225 Norway Maple {Acer platanoides) Client Tree	53 14.0	Within zone of excavation for primary construction.	3
226 Austrian Pine {Pinus nigra) Client Tree	55 10.0	Within zone of excavation for primary construction.	3
227 Austrian Pine {Pinus nigra) Client Tree	39 10.0	Within zone of excavation for primary construction.	3
228 Japanese Tree Lilac {Syringa reticulata) Client Tree	21 8.0	Within zone of excavation for primary construction.	2
230 Austrian Pine {Pinus nigra) Client Tree	45 8.0	Compromised by excavation for primary construction (Injury > 30%)	3
232 Austrian Pine {Pinus nigra) Client Tree	48 10.0	Severe injury due to excavation for primary construction.	3
235 Maidenhair Tree {Ginkgo biloba) Client Tree	25 6.0	Within zone of excavation for primary construction.	2
236 Serbian Spruce {Picea omorika) Client/Neighbor Shared Ownership Tree	46 6.0	Severely injured by primary construction (Injury ~30%). Also poor structural condition with indications of internal decay.	3
237 Serbian Spruce {Picea omorika) Client/Neighbor Shared Ownership Tree	25 6.0	Severe injury (>25%) due to excavation for primary construction. Probable stability compromise. Removal is recommended.	2

Tree # Species Ownership	DBH (cm) Canopy Dia. (m)	Comments Regarding Removal	Compensation Required (Trees)
238 Norway Spruce {Picea abies) Client/Neighbor Shared Ownership Tree	38 8.0	Within zone of excavation for primary construction.	3
239 Norway Spruce {Picea abies) Client/Neighbor Shared Ownership Tree	53 10.0	Compromised by excavation for primary construction (Injury > 30%)	3
301 Thornless Honey Locust {Gleditsia triacanthos var inermis) Client Tree	69 16.0	Within zone of excavation for primary construction.	3
320 Norway Spruce {Picea abies) Neighbor owned tree	23 2.0	Dead tree should be removed.	2
327 Norway Spruce {Picea abies) Client Tree	42 8.0	Within zone of excavation for primary construction.	3
328 Norway Spruce {Picea abies) Client Tree	45 10.0	Within zone of excavation for primary construction.	3
329 Magnolia Species {Magnolia spp) Client Tree	37 10.0	Within zone of excavation for primary construction.	3
332 White Fir {Abies concolor) Client Tree	48 6.0	Within zone of excavation for primary construction.	3
333 Paper Birch {Betula papyrifera) Client Tree	44 10.0	Within zone of excavation for primary construction.	3

Smaller Sized Trees Also Proposed for Removal

The following small sized (< 20cm dbh) trees will require removal as part of the proposed construction.

Tree	DBH
207 European Beech	13
208 White Mulberry	11
209 White Mulberry	15
210 White Mulberry	11
211 White Mulberry	11
212 White Mulberry	16
213 Boxelder	10
214 Japanese Maple	16
215 White Mulberry	11
216 Canadian Serviceberry	13
217 Canadian Serviceberry	12
218 Canadian Serviceberry	10
220 American Witchhazel	16
223 Katsura	19
240 Callery Pear	7

Regarding Compensation/Replacement Plantings

As per the City of Burlington requirements for replacement of trees to be removed, the following presents the anticipated requirement for replacement trees to compensate for the tree removals proposed within the application.

Trunk Diameter (DBH) of the Tree Removed	Compensation Ratio
20 – 35 cm	2:1
36 – 74 cm	3:1
Greater than or equal to 75 cm	4:1

Replacement trees are to be of the following minimum size on installation.

Deciduous Tree: 30mm Caliper
Coniferous Tree: 125cm Height

Replacement Tree Plantings are to be planted within a reasonable timeline (as specified by the municipality) upon completion of tree removal. For sites with development occurring, it is the recommendation of this arborist that the planting occur during the first planting season post construction completion. For example, if construction finishes in the winter, planting of replacement trees is to be conducted in the Spring season immediately following construction conclusion. If construction finishes in the spring/summer, planting of replacement trees is to be conducted in the Fall of that same year.

It should be noted that replacement trees that may be required are to be of Native species, or other species/varieties, deemed as acceptable by the City of Burlington. Please refer to the City of Burlington website for the current lists of suitable replacement trees. Please note that all replacement trees are subject to approval by the City of Burlington.

There are Fifty-nine (59) replacement trees required as a result of the proposed construction activities. Where suitable replacement trees cannot be planted on the site, cash-in-lieu of $250 per tree will be required.

ANALYSIS OF PROPOSED ENCROACHMENTS

The following sections outline the anticipated tree encroachments and injuries for each phase of the proposed construction. Please refer to the subsequent section – Minimization of Damage Recommendations – for recommendations for each phase of construction affecting trees, including Pre-Construction and Post-Construction recommendations.

Construction - Building and Underground Parking

Impacted Trees:

#204 - white mulberry / #229 - Austrian pine / #231 - Austrian pine / #233 - Austrian pine / #234 - Austrian pine / #302 - blue spruce / #307 - Norway maple / #308 - Norway maple / #309 - White Cedar, Arborvitae /

This zone concerns the excavation for primary (building and underground parking) construction.
Excavation allowance (distance between proposed foundation and pit walls) is assumed to be 2m to allow for shoring if needed or sloping of pit wall to prevent collapse.
The following presents the calculated encroachment and anticipated impact proposed to the affected tree(s) from the above construction:

Tree #	Encroachment (area/area)	Anticipated Injury
#204: white mulberry {Morus alba) 13cm DBH	0.41%	0.41%
#229: Austrian pine {Pinus nigra) 44cm DBH	19.76%	19.76%
#231: Austrian pine {Pinus nigra) 47cm DBH	7.35%	7.35%
#233: Austrian pine {Pinus nigra) 48cm DBH	10.62%	10.62%
#234: Austrian pine {Pinus nigra) 45cm DBH	6.11%	6.11%
#302: blue spruce {Picea pungens) 45cm DBH	0.93%	0.93%
#307: Norway maple {Acer platanoides) 11cm DBH	0.01%	0.01%
#308: Norway maple {Acer platanoides) 16cm DBH	0.01%	0.01%
#309: White Cedar, Arborvitae {Thuja occidentalis) 18cm DBH	13.39%	13.39%

ARBORIST MINIMZATION OF DAMAGE RECOMMENDATIONS

The following presents recommendations for ensuring tree protection through construction. Further, this section presents some recommendations for prior to construction commencement, as well as recommendations for post construction.

Pre-Construction Phase

Prior to the commencement of construction, tree preservation hoarding, as well as arboricultural work with regards to any removals and any required pruning for construction, should be implemented as follows:

1. All Tree Preservation Hoarding is to be erected and placed as per the location presented on the attached Tree Preservation Plan Drawing: TPR 101.
   Note: Tree Protection Hoarding must be installed upon approval of the tree preservation plan, and prior to release of the permits regarding tree injury. Upon approval of the Arborist Report and Tree Preservation Plan, and conditions of permit release being sent to the client, the hoarding is to be erected.
2. If it is determined by engineering that silt fencing be required for the site to prevent silt movement, it is the recommendation of the arborist that the silt fencing be placed following and on the construction side of tree protection hoarding.
3. If silt fencing is deemed required within hoarded areas of tree protection, it is not to be dug in in this area, but instead have a minimal amount of clear stone placed at the base. This will prevent impact to tree roots in area from the digging in of the silt fence base, while still allowing for the prevention of silt movement beyond the silt fence.
4. All tree protection hoarding (vertical and/or horizontal), and silt fencing (if required), is to be inspected for correct construction and placement as per the approved Tree Preservation Plan Drawing and Site Plan by a Certified Arborist, or other approved consultant, or by a member City of Burlington Staff. If inspected by other than the City of Burlington staff, the consultant will provide written certification to the municipality that all protective hoarding and sediment control measures (if/where required) have been satisfactorily installed
5. Any pruning of trees that is to occur, as approved and permitted by the City of Burlington for significant size trees, should occur during this phase. No pruning of significant size trees may occur until such time as the pruning has been approved by Forestry and tree injury permits have been released and are present on site.
6. Any removal of trees of significant size, as approved and permitted by the City of Burlington should occur during this phase. No removals of significant size trees may occur until such time as tree removal permits have been released and are present on site.

Construction Phases

The following is recommended to be adhered to during the construction phase of the project in order to minimize the damage to trees where an encroachment into the Protected Root Zone (TPZ) is anticipated.

Open Excavation Area - Building Area Excavation

Construction - Building and Underground Parking
TPZ Encroachment of Trees: #302 Picea pungens, #229 Pinus nigra, #231 Pinus nigra, #233 Pinus nigra, #234 Pinus nigra

1. A Certified Arborist is to be present to assess and treat any roots discovered during the excavation activities occurring within the TPZ areas of trees.
2. The Zones of Construction (as shown in the attached arborist drawing TPR 101) in this area must be strictly adhered to. The excavation allowance allotted for the constructions on the side of tree protection zone confliction is as follows:
    a. 2.0from the building foundation extent on the side of tree protection zone confliction has been allotted for overdig purposes in these areas. This must be strictly adhered to and is not exceeded by any means.
3. Excavations are to be conducted using hand/light equipment only where within the protection zone areas. Prior to excavations with standard excavation equipment for the greater excavation area, a trench excavation along the extent of the excavation area (limit of overdig) within the area of tree protection zone encroachment is to be conducted using hand equipment (shovel) or root sensitive equipment only (air-spade or VAC equipment). This trench is to be excavated to a minimum depth of 1m, in order to expose roots for assessment and pruning/treatment by the onsite Arborist and to prevent root shatter from occurring during subsequent excavation equipment use.
4. Any roots discovered within the excavation area are to be cut cleanly and protected as well as possible from dehydration while exposed for prolonged periods.
5. Where the extent trench used for root pruning is to remain for a prolonged period prior to the remaining excavations through the area, the trench should be either backfilled with soil or filled with mulch to prevent desiccation of cut root ends.
6. No roots of significant structural size, or significant structural masses of smaller roots (as discerned by the on-site arborist), are to be severed by any means.
7. Any construction aggregate used is to be of neutral pH, so as not to alter the adjacent soil pH through leaching of minerals over time.
8. Fill soil used for backfilling the excavation areas is to be of high quality and is to be of the same texture as that of the existing site soil.
9. If construction is to occur during the summer months provisions must be made to supply adequate watering in the absence of regular rainfall levels.

Post-Construction

Upon completion of the construction on the site, it is recommended that the following be undertaken to promote health and vigor of trees on the site as they recover from construction impacts.

1. Upon completion of construction and approval of such from the City of Burlington, tree protection hoarding may be removed from the site.

2. Areas proposed for finish grading in preparation for turf installation/garden bed/plant installation is to occur. In regard to this finish grading work and soft landscaping the following is recommended:

    - Finish Grading/Soft Landscaping is not to commence until all aspects of primary construction, landscape construction, and swale/berm creation (including access) are completed.
    - Upon completion of the construction phases, with the only phase remaining being that of the finish grading and soft landscaping (planting/installation of turf grass), the tree protection hoarding may be removed to allow for finish grading/soft landscaping in these areas to occur.
    - All finish grading/soft landscaping in areas of protected root zones should be done using hand equipment only.
    - All finish grading/soft landscaping in areas of tree protection zones should be done by foot access only.

3. Replacement Tree Plantings, where/if required for tree removals, and as per an approved Replacement Tree Planting Plan/Landscape Plan, are to be conducted. Any replacement tree planting should be conducted in the next planting season post construction completion as follows:

    - If construction completion occurs in the fall/winter, compensation planting is recommended to occur in the first spring season post completion.
    - If construction completion occurs in the spring/summer, compensation planting is recommended to occur in the first fall season post construction completion.
    - It is recommended that a mulch bed be placed in the areas surrounding the base of trees. This area is recommended to be 6:1 of DBH at minimum, up to the size of the canopy area extent. Further, the mulch bed should be no greater than 2.5cm - 5cm (1 - 2 inches) in depth. A mulch layer in the root zone area will moderate soil temperature and moisture loss through evaporation, creating a better growing environment for roots.

GENERAL TREE PROTECTION GUIDELINES

Except as specifically stated in this report, all tree protection policies and zones are to be maintained in accordance with City of Burlington Tree Protection Policy and Specifications.

Tree Protection Zones

All tree protection zones are to be implemented as shown in the arborist drawing. Tree protection barriers are shown and to be constructed not closer than specified in the table: Appendix I – Tree Inventory – (Minimum TPZ radius). Where practicable (and this cannot be anticipated in the drawing phase), these barriers may be increased in size up to the Recommended TPZ radius as described in that same table.

No construction activity including grade changes, surface treatments or excavations of any kind is permitted within the area identified on the plan as a Tree Protection Zone (TPZ). No root cutting is permitted. No storage of materials or fill is permitted within the TPZ. The areas identified as Tree Protection Zones must remain undisturbed at all times.

Tree Protection Barriers

Tree protection barriers should be constructed of solid plywood or equivalent, to a height of 1.2m around the front and sides of the construction envelope. In areas where visibility is of concern poly fencing may be used as a suitable tree protection-hoarding substitute. This will provide adequate tree protection while allowing for ample visibility.

All tree protection hoarding must be erected as shown in the attached arborist sketch TPR – 101.

General Note

Prior to the commencement of any site activity the tree protection barriers specified herein must be installed and written notice provided to City of Burlington, Forestry Department. The tree protection barriers must remain in effective condition until all site activities including landscaping are complete. A sign as specified in Tree Protection Policy and Specification for Construction Near Trees must be attached to all sides of the barrier and at regular intervals for lengthy barriers. Written notice must be provided to City of Burlington prior to the removal of the tree protection barriers.

Arboricultural Work

Any roots or branches extending beyond the tree protection zones indicated in this report and its associated drawings, which require pruning, must be pruned by a Qualified Arborist or other tree professional as approved by City of Burlington. All pruning of tree roots and branches must be in accordance with good arboricultural standards. The Arborist must contact the City of Burlington no less than 48 hours prior to conducting any specified work.

APPENDIX I – TREE INVENTORY AND SUMMARY TABLES

Tree Inventory

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M) Base	TPZ Radius (M) Crown	Condition Health (0-5)	Condition Soundness (0-5)	Condition Form (0-5)	Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area) Base	TPZ Encroachment (Area/Area) Crown	Anticipated Injury From Encroachment % Base	Anticipated Injury From Encroachment % Crown	Status
201	Picea pungens Blue Spruce Neighbor owned tree	27		4.0	1.9	2.54	2.00	4	4	3	72% - Good Occluded west side.	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
202	Morus alba White Mulberry Neighbor owned tree	13		6.0	1.3	2.46	3.00	4	3	2	55% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
203	Morus alba White Mulberry Neighbor owned tree	13		8.0	1.3	2.46	4.00	3	3	2	51% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
204	Morus alba White Mulberry Neighbor owned tree	13		8.0	1.3	2.46	4.00	3	3	2	51% - Fair Trivial injury (<3%) due to excavation for primary construction.	Construction - Building and Underground Parking Totals:	2.4	0.4% 0.4%	14.6% 14.6%	0.4% 0.4%	14.6% 14.6%	Injured (not significant size)
205	Ulmus pumila Siberian Elm Neighbor owned tree	18		8.0	1.6	2.49	4.00	3	3	3	60% - Fair Canopy offset east NTN	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
206	Ulmus pumila Siberian Elm Neighbor owned tree	24		8.0	1.8	2.52	4.00	3	3	3	60% - Fair NTN	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)

Tree Num	Botanical/ Common Name Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
207	Fagus sylvatica European Beech Client Tree	13		4.0	1.3	2.46	2.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
208	Morus alba White Mulberry Client Tree	11		6.0	1.2	2.46	3.00	4	4	3	72% - Good Between cedar hedge and fence. Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
209	Morus alba White Mulberry Client Tree	15		6.0	1.4	2.48	3.00	4	4	3	72% - Good Same as 208 Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
210	Morus alba White Mulberry Client Tree	11		4.0	1.2	2.46	2.00	4	4	3	72% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
211	Morus alba White Mulberry Client Tree	11		8.0	1.2	2.46	4.00	4	4	3	72% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
212	Morus alba White Mulberry Client Tree	16		8.0	1.5	2.48	4.00	4	4	3	72% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
213	Acer negundo Boxelder	10		6.0	1.2	1.85	3.00	4	4	3	72% - Good	Construction - Building and Underground Parking	0.9	21.0%	31.7%	21.0%	31.7%	Remove (not significant size)
	Client Tree											Totals:		21.0%	31.7%	21.0%	31.7%	
											Major injury due to excavation for primary construction. This tree is can be preserved, but should be removed due to undesirable species.							
214	Acer palmatum Japanese Maple	16		6.0	1.5	2.48	3.00	4	4	4	80% - Good	Construction - Building and Underground Parking	0.7	32.7%	35.7%	32.7%	35.7%	Remove (not significant size - within zone)
	Client Tree											Totals:		32.7%	35.7%	32.7%	35.7%	
											Within zone of excavation for primary construction.							
215	Morus alba White Mulberry	11		4.0	1.2	2.46	2.00	4	4	3	72% - Good	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
	Client Tree											Totals:		100.0%	100.0%	100.0%	100.0%	
											Within zone of excavation for primary construction.							
216	Amelanchier canadensis Canadian Serviceberry	13		6.0	1.3	2.46	3.00	4	4	4	80% - Good	Construction - Building and Underground Parking	0.0	57.0%	55.7%	57.0%	55.7%	Remove (not significant size - within zone)
	Client Tree											Hardscape - Plains Road Concrete Surfaces	0.3	43.0%	44.3%	21.5%	22.1%	
											Compromised by excavation for primary construction (injury > 30%)	Totals:		100.0%	100.0%	78.5%	77.9%	
217	Amelanchier canadensis Canadian Serviceberry	12		4.0	1.3	2.46	2.00	4	4	4	80% - Good	Construction - Building and Underground Parking	0.4	40.3%	38.1%	40.3%	38.1%	Remove (not significant size - within zone)
	Client Tree											Hardscape - Plains Road Concrete Surfaces	0.0	59.7%	61.9%	29.8%	30.9%	
											Compromised by excavation for primary construction (injury > 30%)	Totals:		100.0%	100.0%	70.2%	69.1%	
218	Amelanchier canadensis Canadian Serviceberry	10		4.0	1.2	1.85	2.00	4	4	4	80% - Good	Construction - Building and Underground Parking	0.4	39.1%	39.9%	39.1%	39.9%	Remove (not significant size - within zone)
	Client Tree											Hardscape - Plains Road Concrete Surfaces	0.0	60.9%	60.1%	30.5%	30.1%	
											Compromised by excavation for primary construction (injury > 30%)	Totals:		100.0%	100.0%	69.5%	69.9%	

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
219	Liquidambar styraciflua Sweetgum / Client Tree	23		6.0	1.8	2.52	3.00	4	4	4	80% - Good / Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
220	Hamamelis virginiana American Witchhazel / Client Tree	16		6.0	1.5	2.48	3.00	4	4	4	80% - Good / Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (not significant size - within zone)
												Totals:		100.0%	100.0%	100.0%	100.0%	
221	Cercidiphyllum japonicum Katsura Tree / Client Tree	37		8.0	2.3	2.58	4.00	4	4	4	80% - Good / Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
222	Cercidiphyllum japonicum Katsura Tree / Client Tree	29		6.0	2.0	2.54	3.00	4	4	4	80% - Good / Compromised (Injury >30%) due to excavation for primary construction.	Construction - Building and Underground Parking	0.0	61.1%	59.4%	61.1%	59.4%	Remove (within zone of construction)
												Totals:		61.1%	59.4%	61.1%	59.4%	
223	Cercidiphyllum japonicum Katsura Tree / Client Tree	19		6.0	1.6	2.50	3.00	4	4	4	80% - Good / Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	97.0%	91.5%	97.0%	91.5%	Remove (not significant size - within zone)
												Totals:		97.0%	91.5%	97.0%	91.5%	
224	Cercidiphyllum japonicum Katsura Tree / Client Tree	20		6.0	1.7	2.50	3.00	4	4	4	80% - Good / Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	87.7%	82.2%	87.7%	82.2%	Remove (within zone of construction)
												Totals:		87.7%	82.2%	87.7%	82.2%	

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
225	Acer platanoides Norway Maple Client Tree	53		14.0	2.7	3.86	7.00	4	3	4	72% - Good Included union of primaries w trunk, some can branch decay Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
226	Pinus nigra Austrian Pine Client Tree	55		10.0	2.8	3.88	5.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
227	Pinus nigra Austrian Pine Client Tree	39		10.0	2.3	2.60	5.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
228	Syringa reticulata Japanese Tree Lilac Client Tree	21		8.0	1.7	2.50	4.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
229	Pinus nigra Austrian Pine Client Tree	44		8.0	2.5	3.22	4.00	4	4	4	80% - Good Moderate injury due to excavation for primary construction.	Construction - Building and Underground Parking	1.6	19.8%	25.3%	19.8%	25.3%	Injured (major encroachment on BTPZ)
												Totals:		19.8%	25.3%	19.8%	25.3%	
230	Pinus nigra Austrian Pine Client Tree	45		8.0	2.5	3.22	4.00	4	4	4	80% - Good Compromised by excavation for primary construction (Injury > 30%)	Construction - Building and Underground Parking	1.1	30.3%	34.1%	30.3%	34.1%	Remove (within zone of construction)
												Totals:		30.3%	34.1%	30.3%	34.1%	

Tree Num	Botanical/ Common Name Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
231	Pinus nigra Austrian Pine Client Tree	47		6.0	2.6	3.24	3.00	4	4	4	80% - Good Minor injury due to excavation for primary construction.	Construction - Building and Underground Parking	2.5	7.3%	5.0%	7.3%	5.0%	Injured (minor encroachment on BTPZ)
												Totals:		7.3%	5.0%	7.3%	5.0%	
232	Pinus nigra Austrian Pine Client Tree	48		10.0	2.6	3.24	5.00	4	4	4	80% - Good Severe injury due to excavation for primary construction.	Construction - Building and Underground Parking	1.1	29.1%	36.3%	29.1%	36.3%	Remove (within zone of construction)
												Totals:		29.1%	36.3%	29.1%	36.3%	
233	Pinus nigra Austrian Pine Client Tree	48		8.0	2.6	3.24	4.00	4	4	4	80% - Good Moderate injury due to excavation for primary construction.	Construction - Building and Underground Parking	2.2	10.6%	17.1%	10.6%	17.1%	Injured (minor encroachment on BTPZ)
												Totals:		10.6%	17.1%	10.6%	17.1%	
234	Pinus nigra Austrian Pine Client Tree	45		10.0	2.5	3.22	5.00	4	4	4	80% - Good Minor injury due to excavation for primary construction.	Construction - Building and Underground Parking	2.6	6.1%	19.5%	6.1%	19.5%	Injured (minor encroachment on BTPZ)
												Totals:		6.1%	19.5%	6.1%	19.5%	
235	Ginkgo biloba Maidenhair Tree Client Tree	25		6.0	1.9	2.52	3.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
236	Picea omorika Serbian Spruce Client/Neighbor Shared Ownership Tree	46		6.0	2.5	3.23	3.00	3	2	3	51% - Fair Sounds hollow. Poor needle growth. Severely injured by primary construction (Injury ~30%). Also poor structural condition with indications of internal decay.	Construction - Building and Underground Parking	1.1	29.7%	28.2%	29.7%	28.2%	Remove (within zone of construction)
												Totals:		29.7%	28.2%	29.7%	28.2%	

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
237	Picea omorika Serbian Spruce Client/Neighbor Shared Ownership Tree	25		6.0	1.9	2.52	3.00	3	3	4	65% - Good Severe injury (>25%) due to excavation for primary construction. Probable stability compromise. Removal is recommended.	Construction - Building and Underground Parking Totals:	1.1	25.3% 25.3%	29.1% 29.1%	25.3% 25.3%	29.1% 29.1%	Remove (within zone of construction)
238	Picea abies Norway Spruce Client/Neighbor Shared Ownership Tree	38		8.0	2.3	2.59	4.00	3	3	4	65% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking Totals:	0.9	29.7% 29.7%	36.7% 36.7%	29.7% 29.7%	36.7% 36.7%	Remove (within zone of construction)
239	Picea abies Norway Spruce Client/Neighbor Shared Ownership Tree	53		10.0	2.7	3.86	5.00	4	4	4	80% - Good Compromised by excavation for primary construction (Injury > 30%)	Construction - Building and Underground Parking Totals:	1.0	33.8% 33.8%	37.4% 37.4%	33.8% 33.8%	37.4% 37.4%	Remove (within zone of construction)
240	Pyrus spp Pear Species Client Tree	7		2.0	1.0	1.84	1.00	4	4	4	80% - Good Included for reference only. Within zone of excavation for primary construction.	Construction - Building and Underground Parking Totals:	0.0	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	Remove (not significant size - within zone)
301	Gleditsia triacanthos var inermis Thornless Honey Locust Client Tree	69		16.0	3.1	4.54	8.00	4	4	4	80% - Good 1 dead branch on east side (small dia) Within zone of excavation for primary construction.	Construction - Building and Underground Parking Totals:	0.0	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	Remove (within zone of construction)
302	Picea pungens Blue Spruce Client Tree	45		8.0	2.5	3.22	4.00	3	4	3	65% - Good Some accumulated dead branches. Trivial injury (Injury <3%) due to excavation for primary construction.	Construction - Building and Underground Parking Totals:	2.9	0.9% 0.9%	4.1% 4.1%	0.9% 0.9%	4.1% 4.1%	Injured (minor encroachment on BTPZ)

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
304	Ulmus pumila Siberian Elm Neighbor owned tree	15		2.0	1.4	2.48	1.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
307	Acer platanoides Norway Maple Neighbor owned tree	11		4.0	1.2	2.46	2.00	3	3	2	51% - Fair Growing in retaining wall. Trivial injury (<3%) due to excavation for primary construction.	Construction - Building and Underground Parking	2.5	0.0%		0.0%		Injured (not significant size)
												Totals:		0.0%	0.0%	0.0%	0.0%	
308	Acer platanoides Norway Maple Neighbor owned tree	16		6.0	1.5	2.48	3.00	3	3	2	51% - Fair Growing in retaining wall Trivial injury (<3%) due to excavation for primary construction.	Construction - Building and Underground Parking	2.5	0.0%	4.3%	0.0%	4.3%	Injured (not significant size)
												Totals:		0.0%	4.3%	0.0%	4.3%	
309	Thuja occidentalis White Cedar Client Tree	18		4.0	1.6	2.49	2.00	4	4	4	80% - Good Moderate injury due to excavation for primary construction (Injury >10% and <20%)	Construction - Building and Underground Parking	1.6	13.4%	6.5%	13.4%	6.5%	Injured (not significant size)
												Totals:		13.4%	6.5%	13.4%	6.5%	
310	Picea abies Norway Spruce Neighbor owned tree	45		10.0	2.5	3.22	5.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
311	Picea abies Norway Spruce Neighbor owned tree	45		10.0	2.5	3.22	5.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
312	Picea abies Norway Spruce Neighbor owned tree	30		8.0	2.0	2.55	4.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
313	Picea abies Norway Spruce Neighbor owned tree	25		6.0	1.9	2.52	3.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
314	Morus alba White Mulberry Client/Neighbor Shared Ownership Tree	20		6.0	1.7	2.50	3.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
315	Picea abies Norway Spruce Neighbor owned tree	20		6.0	1.7	2.50	3.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
316	Picea abies Norway Spruce Neighbor owned tree	50		8.0	2.6	3.25	4.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
317	Picea abies Norway Spruce Neighbor owned tree	16		6.0	1.5	2.48	3.00	3	3	3	60% - Fair Occluded	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
318	Picea abies Norway Spruce Neighbor owned tree	43		10.0	2.4	3.22	5.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
319	Picea abies Norway Spruce Neighbor owned tree	45		10.0	2.5	3.22	5.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
320	Picea abies Norway Spruce Neighbor owned tree	23		2.0	1.8	2.52	1.00	0	1	1	0% - Dead/Dying Dead Dead tree should be removed.	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Remove (dead tree)

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
321	Morus alba White Mulberry Client/Neighbor Shared Ownership Tree	15		6.0	1.4	2.48	3.00	4	3	3	65% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
322	Picea abies Norway Spruce Neighbor owned tree	50		10.0	2.6	3.25	5.00	3	3	4	65% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
323	Morus alba White Mulberry Neighbor owned tree	28		10.0	2.0	2.54	5.00	4	4	3	72% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
324	Picea abies Norway Spruce Neighbor owned tree	35		8.0	2.2	2.58	4.00	3	3	4	65% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
325	Picea abies Norway Spruce Neighbor owned tree	45		10.0	2.5	3.22	5.00	3	4	4	72% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
326	Picea abies Norway Spruce Neighbor owned tree	45		10.0	2.5	3.22	5.00	3	4	4	72% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
327	Picea abies Norway Spruce Client Tree	42		8.0	2.4	3.21	4.00	3	3	3	60% - Fair Deadwood east side Within zone of excavation for primary construction.	Construction - Building and Underground Parking Totals:	0.0	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	100.0% 100.0%	Remove (within zone of construction)

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
328	Picea abies Norway Spruce Client Tree	45		10.0	2.5	3.22	5.00	4	4	4	80% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
329	Magnolia spp Magnolia Species Client Tree	37		10.0	2.3	2.58	5.00	4	2	4	60% - Fair Large hollow at base west side. Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
330	Thuja occidentalis White Cedar Client Tree	14		2.0	1.4	2.47	1.00	3	3	3	60% - Fair	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (not significant size)
331	Thuja occidentalis White Cedar Client Tree	24		4.0	1.8	2.52	2.00	4	4	4	80% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
332	Abies concolor White Fir Client Tree	48		6.0	2.6	3.24	3.00	1	2	1	24% - Poor Mostly dead. Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
333	Betula papyrifera Paper Birch Client Tree	44		10.0	2.5	3.22	5.00	3	4	4	72% - Good Within zone of excavation for primary construction.	Construction - Building and Underground Parking	0.0	100.0%	100.0%	100.0%	100.0%	Remove (within zone of construction)
												Totals:		100.0%	100.0%	100.0%	100.0%	
901	Acer platanoides Norway Maple Neighbor owned tree	45		10.0	2.5	3.22	5.00	4	3	3	65% - Good Large are of decay (wound) on north side.	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)

Tree Num	Botanical/ Common Name / Owner	DBH (cm)	Trunk Lean and Direction	Canopy Diameter (M)	Critical Root Zone Radius (M)	TPZ Radius (M)		Condition			Comments – Condition Related / Comments – Construction Related	Construction / Demolition / Access Phase	Minimum Distance From Phase (M)	TPZ Encroachment (Area/Area)		Anticipated Injury From Encroachment %		Status
						Base	Crown	Health (0-5)	Soundness (0-5)	Form (0-5)				Base	Crown	Base	Crown	
902	Acer negundo Boxelder Neighbor owned tree	35		10.0	2.2	2.58	5.00	4	3	3	65% - Good	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)
903	Thuja occidentalis White Cedar Neighbor owned tree	15		4.0	1.4	2.48	2.00	4	4	4	80% - Good Hedge on neighbor to rear of 276.	Construction activities (including access) do not encroach upon the protected root zone, or crown of this tree.						Protected (significant size)

Summary Tables

Trees by Owner

All Trees

Ownership	Count
Client Tree	38
Client/Neighbor Shared Ownership Tree	6
Neighbor owned tree	29
Total	**73**

Significant Trees Only

Ownership		Count
Burlington Forestry Department	**DBH 20cm or greater**	
Client Tree		22
Client/Neighbor Shared Ownership Tree		5
Neighbor owned tree		19
Total		**46**

Summary of Trees by Status

Status	Count
Protected (not significant size)	7
Protected (significant size)	20
Injured (not significant size)	4
Injured (minor encroachment on BTPZ)	4
Injured (major encroachment on BTPZ)	1
Remove (not significant size - within zone)	14
Remove (within zone of construction)	21
Remove (not significant size)	1
Remove (dead tree)	1
Total	**73**

Summary of Permit Requirements by Jurisdiction

Tree #	Species	DBH (cm)
Total Click here to enter text.		

APPENDIX II – ARBORIST'S DECLARATIONS

This report represents a fair and accurate assessment of the number, type, size, and condition of the tree(s) on the aforementioned property.

Certificate of Performance

I, Shayne Plowman, certify that:

- I have personally inspected the trees and the property referred to in this report and have stated my findings accurately. The extent of the evaluation or appraisal is stated in the attached report and the Terms of Assignment.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved.
- The analysis, opinions, and conclusions stated herein are my own and are based on current scientific procedures and facts.
- My analysis, opinions, and conclusions were developed and this report has been prepared in accordance with commonly accepted arboricultural practices.
- No one provided significant professional assistance to me, except as indicated within this report.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.
- I further certify that I am a member in good standing of the International Society of Arboriculture, and that I carry the designation of ISA Certified Arborist ON-0425A I have been involved in the field of Arboriculture in a full-time capacity for a period of more than 30 years.

Shayne Plowman

ISA Certified Arborist: ON-0425A

20 July 2023

Assumptions and Limiting Conditions

- Any legal description provided to the consultant is assumed to be correct. Any titles and ownerships to any property are assumed to be good and marketable. No responsibility is assumed for matters legal in character. Any and all property is appraised or evaluated as free and clear, under responsible ownership and competent management.
- Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, the consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
- The consultant shall not be required to give testimony or attend court by reason of this report unless subsequent contractual arrangements are made, including payment of an additional fee for such services as described in the fee schedule and contract of engagement.
- Loss or alteration of any part of this report invalidates the entire report.
- Possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without the prior expressed written consent or verbal consent of the consultant.
- Neither all nor any part of the contents of this report, nor copy thereof, shall be conveyed by anyone, including the client, to the public through advertising, public relations, news, sales or other media, without the prior expressed written or verbal consent of the consultant particularly as to value conclusions, identity of the consultant, or any reference to any professional society or institute or to any initialed designations conferred upon the consultant as stated in his qualifications.
- This report and values expressed herein represent the opinion of the consultant, and the consultant's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- Sketches, diagrams, graphs, and photographs in this report, being intended as visual aids, are not necessarily to scale and should not be construed as engineering or architectural reports or surveys.
- Unless expressed otherwise:
    1. Information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection; and
    2. The inspection is limited to visual examination of accessible items without dissection, excavation, probing or cutting.
    3. There is no warranty or guarantee, expressed or implied, that problems or deficiencies of the plants or property in question may not arise in the future.

Disclaimer

This report is based upon Land Survey drawings (with tree locations marked) provided by the client and prepared by a professional Land Surveyor. No grading information was provided at the time of preparation of this report.
The arborist is not a professional Land Surveyor, and as such can make no claim as to the accuracy of the provided drawings.

20 July 2023

Shayne Plowman

ISA Certified Arborist: ON-0425A

APPENDIX III – METHODOLGY

Location

Unless otherwise specified, this Tree Survey is based upon Land Survey drawings for tree locations. Where additional trees are located, by the arborist, the locations of these trees are approximate only, to within 30cm. This dilution of precision is sufficient for most Tree Preservation requirements but should not be used to determine ownership of the subject tree. Additionally, where additional trees are located by GPS positioning (GIS) although without use of Differential GPS equipment, positional accuracy is limited to 3-5m (not sufficient for most tree preservation calculations).

Measurements

DBH (D140/D150)

The Tree Survey (inventory and location) will encompass any trees on the client site having a DBH of 10cm or greater; trees of any size on adjacent municipal lands and situated within 6m of the client site, or zone of construction; trees having a DBH of 10cm or greater on adjacent private lands and situated within 6m of the client site. Trunk diameters are measured using a diameter tape and rounded upwards to the nearest centimeter. In the case of a multi-stemmed tree, nominal DBH will be calculated as the square root of the sum of the squares of the stem diameters. In the case of hedges, the nominal DBH will be considered to be the diameter of the largest tree.

Canopy

Canopy diameters are representative of the greatest distance from canopy edge to trunk, and should be accurate to ±50cm, unless otherwise specified. In the case of hedges, the nominal canopy radius will be considered to be the greatest extent perpendicular to the line of the hedge.

Other Measurements

Where applicable, Height (measured by clinometer and accounting for grade), Trunk Lean (measured by angle protractor), with compass direction, and Canopy Offset (distance and compass direction), may also be recorded for some or all subject trees.

Evaluation of Tree Condition

All trees are evaluated based on Health, Structure and Form. These individual ratings are then combined into one overall Condition Rating. All ratings are based on criteria as shown below.

RATING	HEALTH	STRUCTURE	FORM
0	Dead	Dead	Dead
1 (Very Poor)	Appears to be dying and in last stages of life. Little live foliage	Single or multiple severe defects. Failure is probable or imminent.	Visually unappealing. Provides little or no function in the landscape
2 (Poor)	Unhealthy and declining in appearance. Extensive twig or branch dieback.	Single serious or multiple significant defects. Recent changes in orientation. Uncorrectable. Failure may occur at any time.	Largely asymmetrical or abnormal. Detracts from intended use or aesthetics to a significant degree.
3 (Fair)	Reduced vigor. Damage due to insects or diseases may be significant, but unlikely to be fatal. Dieback, defoliation, or dead branches may comprise up to 50% of the crown.	Single defect of significant or multiple moderate defects. Defects are not practical to correct or would require multiple treatments over several years.	Major asymmetries or deviations from either species norms or intended use. Function or aesthetics are compromised.
4 (Good)	Normal vigor. No significant damage from insects or diseases. Twig dieback, defoliation or discoloration is minor.	Well-developed structure. Defects are minor and can be corrected.	Minor asymmetries or deviations from species norms. Mostly consistent with intended use. Function and aesthetics are not compromised.
5 (Excellent)	High vigor and nearly perfect health. Little or no twig dieback, defoliation, or discoloration.	Nearly ideal and free from defects.	Nearly ideal for the species. Consistent with intended use.
Unless otherwise specified, tree condition is determined by Limited Visual Assessment (ground based), and is determined on site, as separate Health, Structural, and Form score according to the above ratings as per Guide for Plant Appraisal 10th Edition. Overall Condition Rating is calculated as the Harmonic Mean of the Health, Structure and Form Ratings.			

Appraisal

Where required, some or all of the inventoried trees will be Appraised (monetarily valued). All appraisals are conducted in accordance with the Guide for Plant Appraisal 10th Edition.

Assessment of TPZ Encroachment and Anticipated Impact

All trees are evaluated for root impact potential where a TPZ encroachment is proposed. To provide an anticipated impact, the following assumptions are made:

1. Unless otherwise specified, root distribution on all sides of the tree is equal. For purposes of root assessment, the rooting area is assumed to be an equally distributed disc of rooting around the tree.
2. Unless otherwise specified, rooting profile depth is anticipated to be 1.2m. as is consistent with the rooting profile of trees in average soil profile conditions.
3. Encroachment is calculated using Area x Area method unless otherwise specified (such as for bisecting trenches).
4. Anticipated Root Impact takes in to account the area of encroachment, depth of excavations/fill required, and any mitigating factors (such as a limited rooting profile – e.g. foundation preventing rooting beyond wall extent) to determine an expected root mass injury to the tree

From the anticipated root mass impact, a designation regarding the impact to botanical health is assigned. This is separated in to four categories as follows:

1. **0.5% - 10% Anticipated Impact: Minimal Impact**
   - No Significant Dieback anticipated, however, some branch tip/branchlet dieback may occur in impacts approaching 10%
   - Minimal reduction in growth rate through recovery post impact (1-2 seasons)
   -Sensitive Species may have a minor increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
   - No long term detriment to the botanical health, or structural integrity of the tree. The tree is expected to fully recover from injury.
2. **11% - 19% Anticipated Impact: Moderate Impact**
   - Branch Dieback anticipated, however, it is expected to be minimal to moderate, affecting no greater than 15% of the total canopy area
   - Reduction in growth rate through recovery of post impact (2 - 5 seasons)
   - Reduced Canopy Density
   - Increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
   - No significant detriment to the function of the tree anticipated long term, however, botanical health will receive impact for multiple seasons.
   - No Impact to structural integrity is expected
   - The tree is expected to recover from injury to its' pre construction impact health rating (approximately), however, monitoring is recommended post construction to provide treatment through recovery including (but not limited to): fertilization, treatment of disorders as may arise (abiotic/biotic), compaction alleviation (where applicable), maintenance pruning, etc.
3. **20% - 25% Anticipated Impact: Major Impact**
   - Branch Dieback anticipated to be major and significant but tolerable with after care, affecting no greater than 25% of the total canopy area
   - Significantly reduced growth rate through recovery post impact (>5 seasons)
   - Reduced Canopy Density
   - Increase in susceptibility to biotic/abiotic disorders (insect/disease/environmental)
   - Long term (>5yr) detriment to the function of the tree anticipated. Botanical health will receive impact for multiple seasons, if not be impacted permanently.
   - The tree is expected to recover from injury and tolerate the impact, however, it is expected that it will be reduced in botanical health as compared to its' pre construction impact health rating. Additionally, form will be permanently impacted by either dieback or required pruning. Monitoring is recommended post construction to provide treatment through recovery and ensure survival including (but not limited to): fertilization, treatment of disorders as may arise (abiotic/biotic), compaction alleviation (where applicable), maintenance pruning/deadwood removal (as required), etc.
   - Specialized fertilization or insect/disease treatments may be required due to total root mass injury through recovery, such as direct stem injection.
   - Note: Where Major impact tree are to be preserved, no significant impact to stability of the root plate is expected to occur.
4. **> 25% Anticipated Impact or Stability Impact to Root Plate: Critical Impact – Tree to be Removed due to Construction Impact**
   - Botanical impact not anticipated to be tolerable (Tree anticipated to have a 50% or less chance of survival from impact), or
   - Impacted stability of root plate from construction
   - Tree to be proposed for removal

APPENDIX IV – DRAWING REFERENCE

Based upon the information obtained in the tree survey, the trees are to be plotted, to scale. Depending on the intended use of the drawings, these will be overlayed on: Survey, Site Plan or Grading Plan provided by others. The arborist is not responsible for deficiencies in drawings prepared by others.
For most purposes, drawings will be published at a scale of 1:200 (metric) with dimensions in metric and imperial units, on a standard sheet size of Arch-D (24x36). Where permitted by the recipient, drawings may be produced at a scale of 1:250, or in a larger sheet size of Arch-E (36x48). Should multiple sheets be required, an index drawing (TPR-100) will be provided at a smaller scale (e.g., 1:500, 1:1000).

Drawing Indexing and Content

TPR-1xx series

- All surveyed trees, with Tree Number, Species, DBH, Minimum TPZ, and Canopy extents plotted.
- Any trees which are proposed to be removed.
- Trees which will potentially be subject to Injury because of the proposed site work are not uniquely identified.
- Hatching to clearly identify areas of Tree Protection Zone encroachment by the proposed construction. *(Hatching may be omitted for clarity)*
- Locations for prescribed Tree Protection Fencing.
- Minimization of Damage notes.
- Scale 1:100 *(small sites only)*, 1:200, 1:250

TPR-9xx series *(on smaller sites, photos may be included in TPR-101 drawing)*

- Photo Reference Drawings, providing photo records of each tree.
- Photos are indexed by Tree and *(per tree)* Photo letter.
- Scale as listed above *(TPR-1xx series)*

If required, additional drawings may be rendered as follows:

- TPR-2xx – Section views
- TPR-3xx – Elevation views
- TPR-5xx – Detail views
- TPR-6xx – Schedules and/or Diagrams

APPENDIX V – DRAWINGS

PLAINS ROAD EAST

(BY ORDER IN COUNCIL 4000/69, FORMERLY THE KING'S HIGHWAY No. 2)
(ROAD ALLOWANCE BETWEEN BROKEN FRONT CONCESSION AND CONCESSION 1)
(PART 3, INST. 1431 DEPARTMENT OF HIGHWAYS PLAN P-1957-44)
PIN 07113-0002(LT)

ARBORIST DRAWING LENGEND

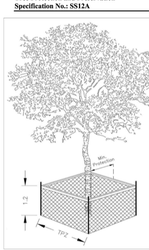
- MINIMUM TREE PROTECTION ZONE (MTPZ AS PER BYLAW)
- CRITICAL ROOT ZONE (CRZ AS PER TREE BYLAW)
- CANOPY LIMIT
- TREE PROTECTION FENCE – (POLY MESH) – MIN 1.2M HT
- TREE PROTECTION FENCE – (POLY MESH) – MIN 1.2M HT OPTIONAL TREE PROTECTION HOARDING FOR SMALL SIZE/HEDGE/SHRUBS
- BUILDER INSTALLED WOOD FRAME FENCE (1.2M HT)
- ZONE OF CONSTRUCTION / DEMOLITION / EXCAVATION
- AREA OF TREE PROTECTION ZONE ENCROACHMENT EXCAVATION WHICH MAY REQUIRE ROOT PRUNING ARBORIST TO BE PRESENT DURING ANY EXCAVATION IN THESE AREAS.
- TREE PROTECTION ZONE

TREE BLOCK SYMBOLS

- TREE TO BE PRESERVED/RETAINED
  - CANOPY EXTENT
  - # Ø0.20 DBH (TRUNK DIAMETER AT 1.4M ABOVE GRADE)
  - MINIMUM TREE PROTECTION ZONE RADIUS
- # Ø0.20 TREE TO BE REMOVED PERMIT REQUIRED
- # Ø0.20 TREE TO BE REMOVED NO PERMIT REQUIRED/SMALL SIZE
- TREE DOES NOT EXIST OR PREVIOUSLY REMOVED
- HEDGE/SHRUB (SMALL SIZE PROTECTION OPTIONAL)

Tree Protection and Preservation Specification No.: SS12A

Detail TP-1 – Tree Protection Detail.



Trunk Diameter (DBH) [1]	Minimum Tree Protection Zone (MTPZ) Distances Required [2]	Critical Root Zone (CRZ) Distances Required [3a]
< 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.
[3a] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 6 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 City Arborist.
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 City Arborist.
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".

ARBORIST MINIMZATION OF DAMAGE RECOMMENDATIONS

THE FOLLOWING PRESENTS RECOMMENDATIONS FOR ENSURING TREE PROTECTION THROUGH CONSTRUCTION. FURTHER, THIS SECTION PRESENTS SOME RECOMMENDATIONS FOR PRIOR TO CONSTRUCTION COMMENCEMENT, AS WELL AS RECOMMENDATIONS FOR POST CONSTRUCTION.

PRE-CONSTRUCTION PHASE

PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TREE PRESERVATION HOARDING, AS WELL AS ARBORICULTURAL WORK WITH REGARDS TO ANY REMOVALS AND ANY REQUIRED PRUNING FOR CONSTRUCTION, SHOULD BE IMPLEMENTED AS FOLLOWS:

1. ALL TREE PRESERVATION HOARDING IS TO BE ERECTED AND PLACED AS PER THE LOCATION PRESENTED ON THE ATTACHED TREE PRESERVATION PLAN DRAWING: TPR 101.
   NOTE: TREE PROTECTION HOARDING MUST BE INSTALLED UPON APPROVAL OF THE TREE PRESERVATION PLAN, AND PRIOR TO RELEASE OF THE PERMITS REGARDING TREE INJURY. UPON APPROVAL OF THE ARBORIST REPORT AND TREE PRESERVATION PLAN, AND CONDITIONS OF PERMIT RELEASE BEING SENT TO THE CLIENT, THE HOARDING IS TO BE ERECTED.
2. IF IT IS DETERMINED BY ENGINEERING THAT SILT FENCING BE REQUIRED FOR THE SITE TO PREVENT SILT MOVEMENT, IT IS THE RECOMMENDATION OF THE ARBORIST THAT THE SILT FENCING BE PLACED FOLLOWING AND ON THE CONSTRUCTION SIDE OF TREE PROTECTION HOARDING.
3. IF SILT FENCING IS DEEMED REQUIRED WITHIN HOARDED AREAS OF TREE PROTECTION, IT IS NOT TO BE DUG IN IN THIS AREA, BUT INSTEAD HAVE A MINIMAL AMOUNT OF CLEAR STONE PLACED AT THE BASE. THIS WILL PREVENT IMPACT TO TREE ROOTS IN AREA FROM THE DIGGING IN OF THE SILT FENCE BASE, WHILE STILL ALLOWING FOR THE PREVENTION OF SILT MOVEMENT BEYOND THE SILT FENCE.
4. ALL TREE PROTECTION HOARDING (VERTICAL AND/OR HORIZONTAL), AND SILT FENCING (IF REQUIRED), IS TO BE INSPECTED FOR CORRECT CONSTRUCTION AND PLACEMENT AS PER THE APPROVED TREE PRESERVATION PLAN DRAWING AND SITE PLAN BY A CERTIFIED ARBORIST, OR OTHER APPROVED CONSULTANT, OR BY A MEMBER CITY OF BURLINGTON STAFF. IF INSPECTED BY OTHER THAN THE CITY OF BURLINGTON STAFF, THE CONSULTANT WILL PROVIDE WRITTEN CERTIFICATION TO THE MUNICIPALITY THAT ALL PROTECTIVE HOARDING AND SEDIMENT CONTROL MEASURES (IF/WHERE REQUIRED) HAVE BEEN SATISFACTORILY INSTALLED
5. ANY PRUNING OF TREES THAT IS TO OCCUR, AS APPROVED AND PERMITTED BY THE CITY OF BURLINGTON FOR SIGNIFICANT SIZE TREES, SHOULD OCCUR DURING THIS PHASE. NO PRUNING OF SIGNIFICANT SIZE TREES MAY OCCUR UNTIL SUCH TIME AS THE PRUNING HAS BEEN APPROVED BY FORESTRY AND TREE INJURY PERMITS HAVE BEEN RELEASED AND ARE PRESENT ON SITE.
6. ANY REMOVAL OF TREES OF SIGNIFICANT SIZE, AS APPROVED AND PERMITTED BY THE CITY OF BURLINGTON SHOULD OCCUR DURING THIS PHASE. NO REMOVALS OF SIGNIFICANT SIZE TREES MAY OCCUR UNTIL SUCH TIME AS TREE REMOVAL PERMITS HAVE BEEN RELEASED AND ARE PRESENT ON SITE.

CONSTRUCTION PHASES

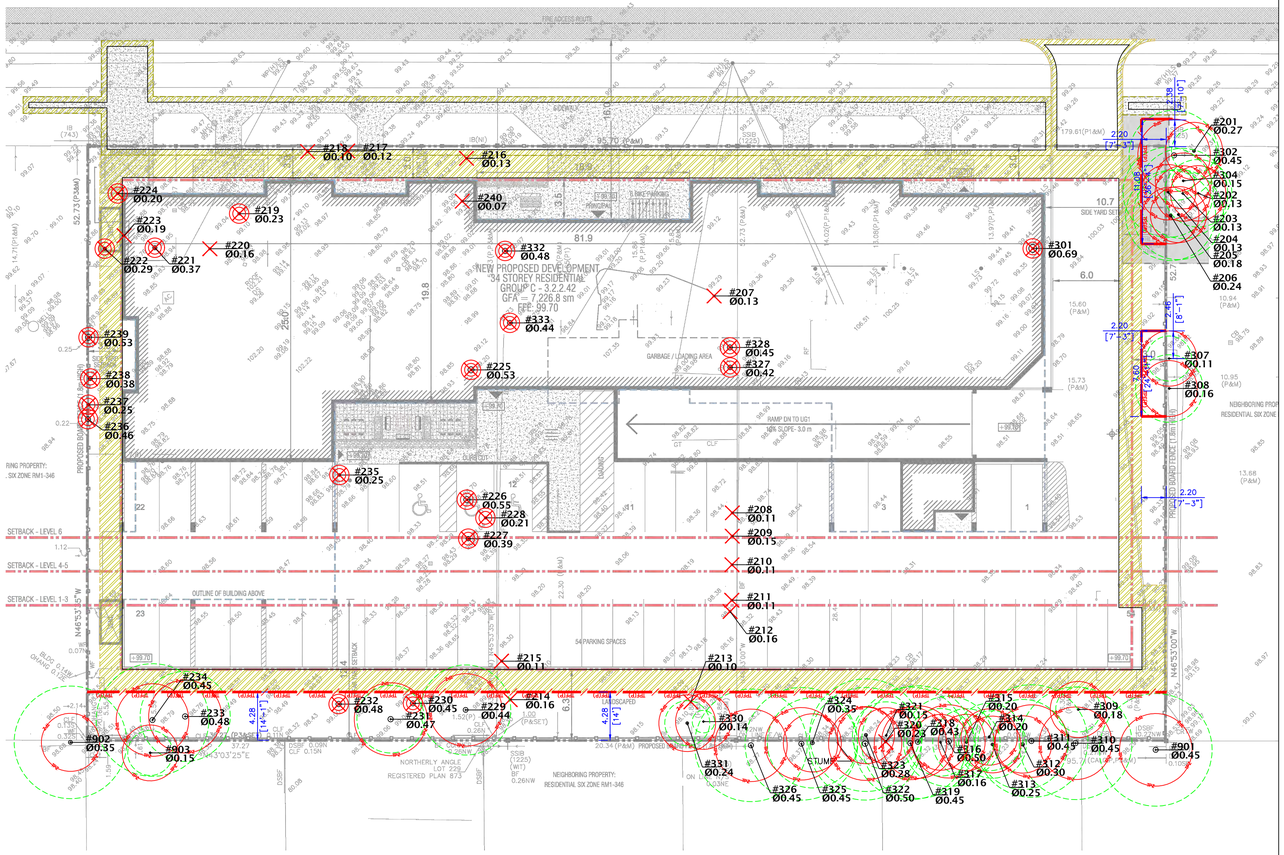
THE FOLLOWING IS RECOMMENDED TO BE ADHERED TO DURING THE CONSTRUCTION PHASE OF THE PROJECT IN ORDER TO MINIMIZE THE DAMAGE TO TREES WHERE AN ENCROACHMENT INTO THE PROTECTED ROOT ZONE (TPZ) IS ANTICIPATED.

OPEN EXCAVATION AREA – BUILDING AREA EXCAVATION

CONSTRUCTION – BUILDING AND UNDERGROUND PARKING

TPZ ENCROACHMENT OF TREES: #302 PICEA PUNGENS, #229 PINUS NIGRA, #231 PINUS NIGRA, #233 PINUS NIGRA, #234 PINUS NIGRA

1. A CERTIFIED ARBORIST IS TO BE PRESENT TO ASSESS AND TREAT ANY ROOTS DISCOVERED DURING THE EXCAVATION ACTIVITIES OCCURRING WITHIN THE TPZ AREAS OF TREES.
2. THE ZONES OF CONSTRUCTION (AS SHOWN IN THE ATTACHED ARBORIST DRAWING (IN) THIS AREA MUST BE STRICTLY ADHERED TO. THE EXCAVATION ALLOWANCE ALLOTTED FOR THE CONSTRUCTIONS ON THE SIDE OF TREE PROTECTION ZONE CONFLICTION IS AS FOLLOWS:
   a. 2.0FROM THE BUILDING FOUNDATION EXTENT ON THE SIDE OF TREE PROTECTION ZONE CONFLUCTION HAS BEEN ALLOTTED FOR OVERDIG PURPOSES IN THESE AREAS. THIS MUST BE STRICTLY ADHERED TO AND IS NOT EXCEEDED BY ANY MEANS.
3. EXCAVATIONS ARE TO BE CONDUCTED USING HAND/LIGHT EQUIPMENT ONLY WHERE WITHIN THE PROTECTION ZONE AREAS. PRIOR TO EXCAVATIONS WITH STANDARD EXCAVATION EQUIPMENT FOR THE GREATER EXCAVATION AREA, A TRENCH EXCAVATION ALONG THE EXTENT OF THE EXCAVATION AREA (LIMIT OF OVERDIG) WITHIN THE AREA OF TREE PROTECTION ZONE ENCROACHMENT IS TO BE CONDUCTED USING HAND EQUIPMENT (SHOVEL) OR ROOT SENSITIVE EQUIPMENT ONLY (AIR-SPADE OR VAC EQUIPMENT). THIS TRENCH IS TO BE EXCAVATED TO A MINIMUM DEPTH OF 1M, IN ORDER TO EXPOSE ROOTS FOR ASSESSMENT AND PRUNING/TREATMENT BY THE ONSITE ARBORIST AND TO PREVENT ROOT SHATTER FROM OCCURRING DURING SUBSEQUENT EXCAVATION EQUIPMENT USE.
4. ANY ROOTS DISCOVERED WITHIN THE EXCAVATION AREA ARE TO BE CUT CLEANLY AND PROTECTED AS WELL AS POSSIBLE FROM DEHYDRATION WHILE EXPOSED FOR PROLONGED PERIODS.
5. WHERE THE EXTENT TRENCH USED FOR ROOT PRUNING IS TO REMAIN FOR A PROLONGED PERIOD PRIOR TO THE REMAINING EXCAVATIONS THROUGH THE AREA, THE TRENCH SHOULD BE EITHER BACKFILLED WITH SOIL OR FILLED WITH MULCH TO PREVENT DESICCATION OF CUT ROOT ENDS.
6. NO ROOTS OF SIGNIFICANT STRUCTURAL SIZE, OR SIGNIFICANT STRUCTURAL MASSES OF SMALLER ROOTS (AS DISCERNED BY THE ON-SITE ARBORIST), ARE TO BE SEVERED BY ANY MEANS.
7. ANY CONSTRUCTION AGGREGATE USED IS TO BE OF NEUTRAL PH, SO AS NOT TO ALTER THE ADJACENT SOIL PH THROUGH LEACHING OF MINERALS OVER TIME.
8. FILL SOIL USED FOR BACKFILLING THE EXCAVATION AREAS IS TO BE OF HIGH QUALITY AND IS TO BE OF THE SAME TEXTURE AS THAT OF THE EXISTING SITE SOIL.
9. IF CONSTRUCTION IS TO OCCUR DURING THE SUMMER MONTHS PROVISIONS MUST BE MADE TO SUPPLY ADEQUATE WATERING IN THE ABSENCE OF REGULAR RAINFALL LEVELS.



General Notes

TREE PROTECTION PLAN NOTES

PRIOR TO SITE DISTURBANCE THE OWNER MUST CONFIRM THAT NO MIGRATORY BIRDS ARE MAKING USE OF THE SITE FOR NESTING. THE OWNER MUST ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE MIGRATORY BIRD CONVENTION ACT AND THAT NO MIGRATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK.
IT IS THE APPLICANTS RESPONSIBILITY TO DISCUSS POTENTIAL TREE INJURY OF TREES ON SHARED PROPERTY LINES WITH THEIR NEIGHBOURS. SHOULD SUCH TREES BE INJURED TO THE POINT OF INSTABILITY OR DEATH THE APPLICANT MAY BE HELD RESPONSIBLE FOR REMOVAL AND SUCH ISSUES WOULD BE DEALT WITH IN CIVIL COURT OR THROUGH NEGOTIATION. THE APPLICANT WOULD BE REQUIRED TO REPLACE SUCH TREES TO THE SATISFACTION OF URBAN FORESTRY.

TREE PROTECTION ZONE(S):
NO CONSTRUCTION ACTIVITY INCLUDING GRADE CHANGES, SURFACE TREATMENTS OR EXCAVATIONS OF ANY KIND IS PERMITTED WITHIN THE AREA IDENTIFIED ON THE TREE PROTECTION PLAN OR SITE PLAN AS A TREE PROTECTION ZONE (TPZ). NO ROOT CUTTING IS PERMITTED. NO STORAGE OF MATERIALS OR FILL IS PERMITTED WITHIN THE TPZ. NO MOVEMENT OR STORAGE OF VEHICLES OR EQUIPMENT IS PERMITTED WITHIN THE TPZ. THE AREA(S) IDENTIFIED AS A TPZ MUST REMAIN UNDISTURBED AT ALL TIMES.

TREE PROTECTION BARRIERS:
FOR CITY-OWNED TREES:
TREE PROTECTION BARRIERS FOR TREES SITUATED ON THE CITY ROAD ALLOWANCE WHERE VISIBILITY MUST BE MAINTAINED, CAN BE 1.2M (4FT.) HIGH AND CONSIST OF CHAIN LINK, OR ORANGE PLASTIC WEB SNOW FENCING ON A 2" X 4" WOOD FRAME. ALL SUPPORTS AND BRACING USED TO SECURE THE BARRIER SHOULD BE LOCATED OUTSIDE THE TPZ. ALL SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ.
WHERE SOME FILL OR EXCAVATE HAS TO BE TEMPORARILY LOCATED NEAR A TREE PROTECTION BARRIER, PLYWOOD MUST BE USED TO ENSURE NO MATERIAL ENTERS THE TPZ.
IF THE TPZ NEEDS TO BE REDUCED TO FACILITATE CONSTRUCTION ACCESS, THE TREE PROTECTION BARRIER MUST BE MAINTAINED AT A LESSER DISTANCE AND THE EXPOSED TPZ PROTECTED WITH PLYWOOD AND WOOD CHIPS. THIS MUST FIRST BE APPROVED BY URBAN FORESTRY.

FOR TREES ON PRIVATE PROPERTY SITUATED ON OR ADJACENT TO CONSTRUCTION SITES:
TREE PROTECTION BARRIERS MUST BE INSTALLED AROUND TREES TO BE PROTECTED USING PLYWOOD CLAD HOARDING OR AN EQUIVALENT APPROVED BY URBAN FORESTRY. ALL SUPPORTS AND BRACING TO SAFELY SECURE THE BARRIER SHOULD BE OUTSIDE THE TPZ. ALL SUCH SUPPORTS AND BRACING SHOULD MINIMIZE DAMAGE TO ROOTS OUTSIDE THE TPZ.

GENERAL NOTE:
PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY THE TREE PROTECTION BARRIERS SPECIFIED ON THIS PLAN MUST BE INSTALLED AND WRITTEN NOTICE PROVIDED TO URBAN FORESTRY. THE TREE PROTECTION BARRIERS MUST REMAIN IN EFFECTIVE CONDITION UNTIL ALL SITE ACTIVITIES INCLUDING LANDSCAPING ARE COMPLETE. WHERE REQUIRED, SIGNS AS AS SPECIFIED IN SECTION 4 "TREE PROTECTION SIGNAGE" MUST BE ATTACHED TO ALL SIDES OF THE BARRIER.
WRITTEN NOTICE MUST BE PROVIDED TO URBAN FORESTRY PRIOR TO THE REMOVAL OF THE TREE PROTECTION BARRIERS.

ARBORICULTURAL WORK:
ANY ROOTS OR BRANCHES WHICH EXTEND BEYOND THE TPZ INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, MUST BE PRUNED BY A QUALIFIED ARBORIST OR OTHER TREE PROFESSIONAL AS APPROVED BY URBAN FORESTRY. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL STANDARDS. ROOTS LOCATED OUTSIDE THE TPZ THAT HAVE RECEIVED APPROVAL FROM URBAN FORESTRY TO BE PRUNED MUST FIRST BE EXPOSED BY HAND DIGGING OR BY USING A LOW PRESSURE HYDRO VAC METHOD. THIS WILL ALLOW A PROPER PRUNING CUT AND MINIMIZE TEARING OF THE ROOTS. THE ARBORIST/TREE PROFESSIONAL RETAINED TO CARRY OUT CROWN OR ROOT PRUNING MUST CONTACT URBAN FORESTRY NO LESS THAN 48 HOURS PRIOR TO CONDUCTING ANY SPECIFIED WORK.

No.	Revision/Issue	Date

S. PLOWMAN ON-0425A

GLN FARM & FOREST RESEARCH CO. LTD.
2511 BRIDGE ROAD
OAKVILLE, ON L6L 2H3
TEL: 905-827-1134

Client:
BROOKLYN CONSTRUCTION

276 – 292 PLAINS RD EAST

Drawing Title:
TREE PRESERVATION PLAN AND HOARDING DETAILS

Date:	20-Jul-23
Scale:	1:250
Drawn By:	SP
Tree Survey Date:	10 JULY 2023
Total Drawings:	1 of 3
Project	276-292PLAINS
Sheet	TPR-101

TREE INVENTORY

TREE #	SPECIES BOTANICAL	COMMON	DBH (CM)	CANOPY (M)	CONDITION %	OWNERSHIP	STATUS
201	PICEA PUNGENS	BLUE SPRUCE	27	4	72 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
202	MORUS ALBA	WHITE MULBERRY	13	6	55 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (NOT SIGNIFICANT SIZE)
203	MORUS ALBA	WHITE MULBERRY	13	8	51 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (NOT SIGNIFICANT SIZE)
204	MORUS ALBA	WHITE MULBERRY	13	8	51 - FAIR	NEIGHBOR OWNED TREE	INJURED (NOT SIGNIFICANT SIZE)
205	ULMUS PUMILA	SIBERIAN ELM	18	8	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (NOT SIGNIFICANT SIZE)
206	ULMUS PUMILA	SIBERIAN ELM	24	8	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (MINOR ENCROACHMENT ON BTPZ)
207	FAGUS SYLVATICA	EUROPEAN BEECH	13	4	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
208	MORUS ALBA	WHITE MULBERRY	11	6	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
209	MORUS ALBA	WHITE MULBERRY	15	6	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
210	MORUS ALBA	WHITE MULBERRY	11	4	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
211	MORUS ALBA	WHITE MULBERRY	11	8	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
212	MORUS ALBA	WHITE MULBERRY	16	8	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
213	ACER NEGUNDO	BOXELDER	10	6	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE)
214	ACER PALMATUM	JAPANESE MAPLE	16	6	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
215	MORUS ALBA	WHITE MULBERRY	11	4	72 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
216	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	13	6	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
217	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	12	4	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
218	AMELANCHIER CANADENSIS	CANADIAN SERVICEBERRY	10	4	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
219	LIQUIDAMBAR STYRACIFLUA	SWEETGUM	23	6	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
220	HAMAMELIS VIRGINIANA	AMERICAN WITCHHAZEL	16	6	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
221	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	37	8	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
222	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	29	6	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
223	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	19	6	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
224	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	20	6	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
225	ACER PLATANOIDES	NORWAY MAPLE	53	14	72 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
226	PINUS NIGRA	AUSTRIAN PINE	55	10	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
227	PINUS NIGRA	AUSTRIAN PINE	39	10	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
228	SYRINGA RETICULATA	JAPANESE TREE LILAC	21	8	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
229	PINUS NIGRA	AUSTRIAN PINE	44	8	80 - GOOD	CLIENT TREE	INJURED (MAJOR ENCROACHMENT ON BTPZ)
230	PINUS NIGRA	AUSTRIAN PINE	45	8	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
231	PINUS NIGRA	AUSTRIAN PINE	47	6	80 - GOOD	CLIENT TREE	INJURED (MINOR ENCROACHMENT ON BTPZ)
232	PINUS NIGRA	AUSTRIAN PINE	48	10	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
233	PINUS NIGRA	AUSTRIAN PINE	48	8	80 - GOOD	CLIENT TREE	INJURED (MINOR ENCROACHMENT ON BTPZ)
234	PINUS NIGRA	AUSTRIAN PINE	45	10	80 - GOOD	CLIENT TREE	INJURED (MINOR ENCROACHMENT ON BTPZ)
235	GINKGO BILOBA	MAIDENHAIR TREE	25	6	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
236	PICEA OMORIKA	SERBIAN SPRUCE	46	6	51 - FAIR	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
237	PICEA OMORIKA	SERBIAN SPRUCE	25	6	65 - GOOD	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
238	PICEA ABIES	NORWAY SPRUCE	38	8	65 - GOOD	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
239	PICEA ABIES	NORWAY SPRUCE	53	10	80 - GOOD	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
240	PYRUS SPP	PEAR SPECIES	7	2	80 - GOOD	CLIENT TREE	REMOVE (NOT SIGNIFICANT SIZE - WITHIN ZONE)
301	GLEDITSIA TRIACANTHOS VAR INERMIS	THORNLESS HONEY LOCUST	69	16	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
302	PICEA PUNGENS	BLUE SPRUCE	45	8	65 - GOOD	CLIENT TREE	INJURED (MINOR ENCROACHMENT ON BTPZ)
304	ULMUS PUMILA	SIBERIAN ELM	15	2	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (NOT SIGNIFICANT SIZE)
307	ACER PLATANOIDES	NORWAY MAPLE	11	4	51 - FAIR	NEIGHBOR OWNED TREE	INJURED (NOT SIGNIFICANT SIZE)
308	ACER PLATANOIDES	NORWAY MAPLE	16	6	51 - FAIR	NEIGHBOR OWNED TREE	INJURED (NOT SIGNIFICANT SIZE)
309	THUJA OCCIDENTALIS	WHITE CEDAR	18	4	80 - GOOD	CLIENT TREE	INJURED (NOT SIGNIFICANT SIZE)
310	PICEA ABIES	NORWAY SPRUCE	45	10	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
311	PICEA ABIES	NORWAY SPRUCE	45	10	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
312	PICEA ABIES	NORWAY SPRUCE	30	8	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
313	PICEA ABIES	NORWAY SPRUCE	25	6	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
314	MORUS ALBA	WHITE MULBERRY	20	6	60 - FAIR	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	PROTECTED (SIGNIFICANT SIZE)
315	PICEA ABIES	NORWAY SPRUCE	20	6	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
316	PICEA ABIES	NORWAY SPRUCE	50	8	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
317	PICEA ABIES	NORWAY SPRUCE	16	6	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (NOT SIGNIFICANT SIZE)
318	PICEA ABIES	NORWAY SPRUCE	43	10	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
319	PICEA ABIES	NORWAY SPRUCE	45	10	60 - FAIR	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
320	PICEA ABIES	NORWAY SPRUCE	23	2	0 - DEAD/DYING	NEIGHBOR OWNED TREE	REMOVE (DEAD TREE)
321	MORUS ALBA	WHITE MULBERRY	15	6	65 - GOOD	CLIENT/NEIGHBOR SHARED OWNERSHIP TREE	PROTECTED (NOT SIGNIFICANT SIZE)
322	PICEA ABIES	NORWAY SPRUCE	50	10	65 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
323	MORUS ALBA	WHITE MULBERRY	28	10	72 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
324	PICEA ABIES	NORWAY SPRUCE	35	8	65 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
325	PICEA ABIES	NORWAY SPRUCE	45	10	72 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
326	PICEA ABIES	NORWAY SPRUCE	45	10	72 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
327	PICEA ABIES	NORWAY SPRUCE	42	8	60 - FAIR	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
328	PICEA ABIES	NORWAY SPRUCE	45	10	80 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
329	MAGNOLIA SPP	MAGNOLIA SPECIES	37	10	60 - FAIR	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
330	THUJA OCCIDENTALIS	WHITE CEDAR	14	2	60 - FAIR	CLIENT TREE	PROTECTED (NOT SIGNIFICANT SIZE)
331	THUJA OCCIDENTALIS	WHITE CEDAR	24	4	80 - GOOD	CLIENT TREE	PROTECTED (SIGNIFICANT SIZE)
332	ABIES CONCOLOR	WHITE FIR	48	6	24 - POOR	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
333	BETULA PAPYRIFERA	PAPER BIRCH	44	10	72 - GOOD	CLIENT TREE	REMOVE (WITHIN ZONE OF CONSTRUCTION)
901	ACER PLATANOIDES	NORWAY MAPLE	45	10	65 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
902	ACER NEGUNDO	BOXELDER	35	10	65 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)
903	THUJA OCCIDENTALIS	WHITE CEDAR	15	4	80 - GOOD	NEIGHBOR OWNED TREE	PROTECTED (SIGNIFICANT SIZE)

GLN



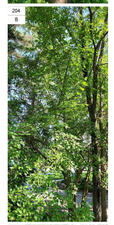


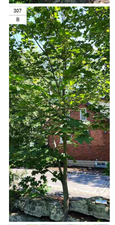




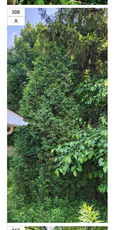








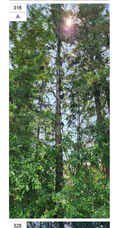




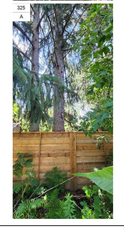


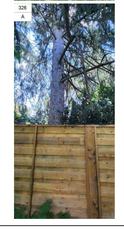










PLAINS ROAD EAST

(BY ORDER IN COUNCIL 4000/69, FORMERLY THE KING'S HIGHWAY No. 2)
(ROAD ALLOWANCE BETWEEN BROKEN FRONT CONCESSION AND CONCESSION 1)
(PART 3, INST. 1431 DEPARTMENT OF HIGHWAYS PLAN P-1957-44)
PIN 07113-0002(LT)

General Notes

No.	Revision/Issue	Date

S. PLOWMAN ON-0425A

GLN FARM & FOREST RESEARCH CO. LTD.
2511 BRIDGE ROAD
OAKVILLE, ON L6L 2H3
TEL: 905-827-1134

Client:
BROOKLYN CONSTRUCTION

276 - 292 PLAINS RD EAST

Drawing Title:
TREE INVENTORY AND PHOTO REFERENCES

Date: 20-Jul-23	Project: 276-292PLAINS
Scale: 1:250	
Drawn By: SP	Sheet: TPR-901
Tree Survey Date: 10 JULY 2023	
Total Drawings: 2 of 3	



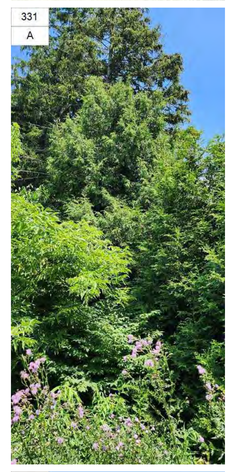












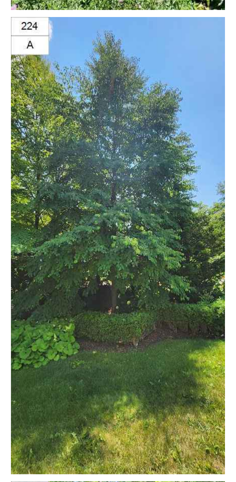


















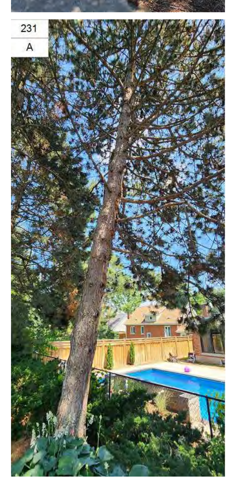














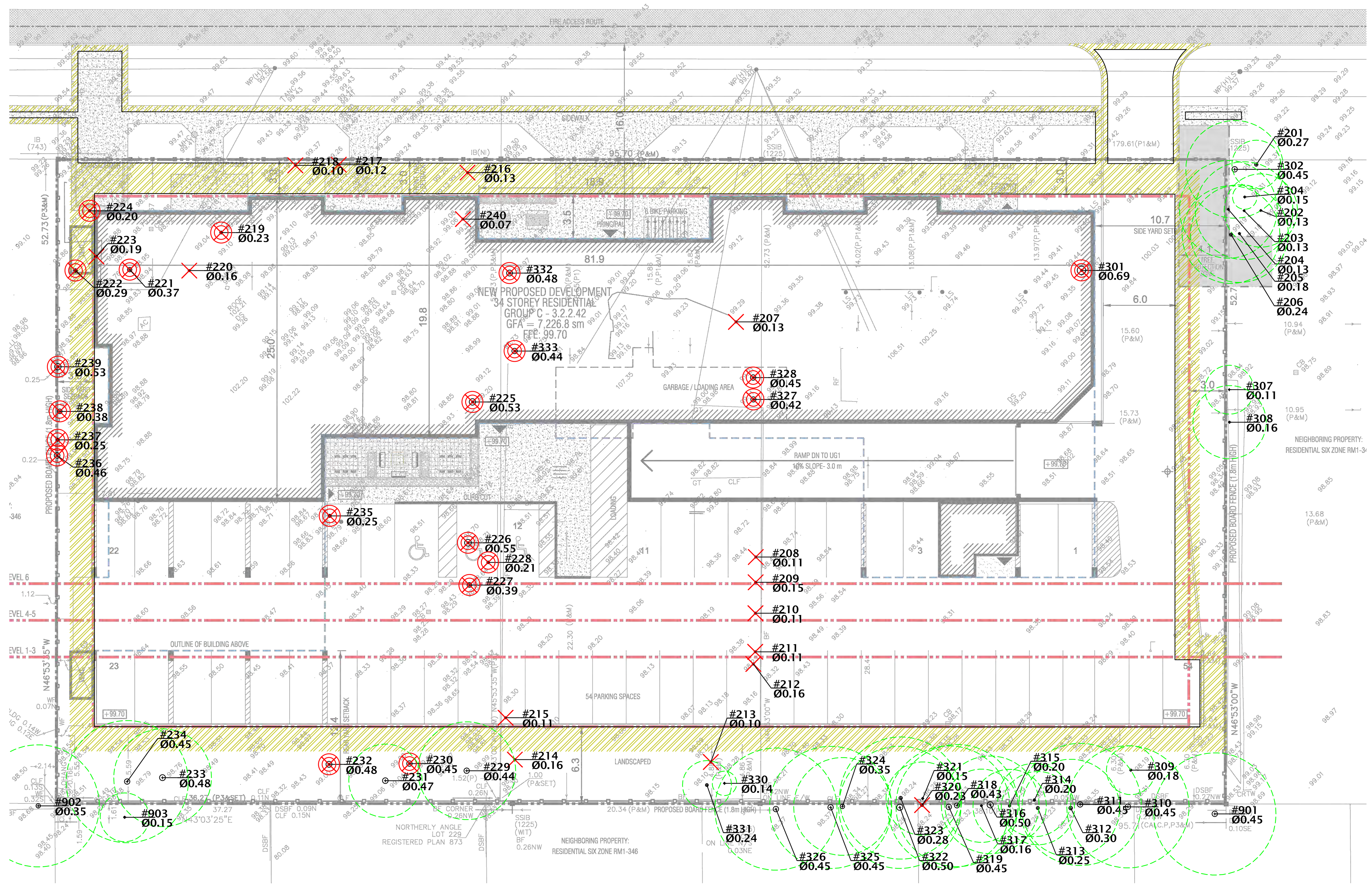


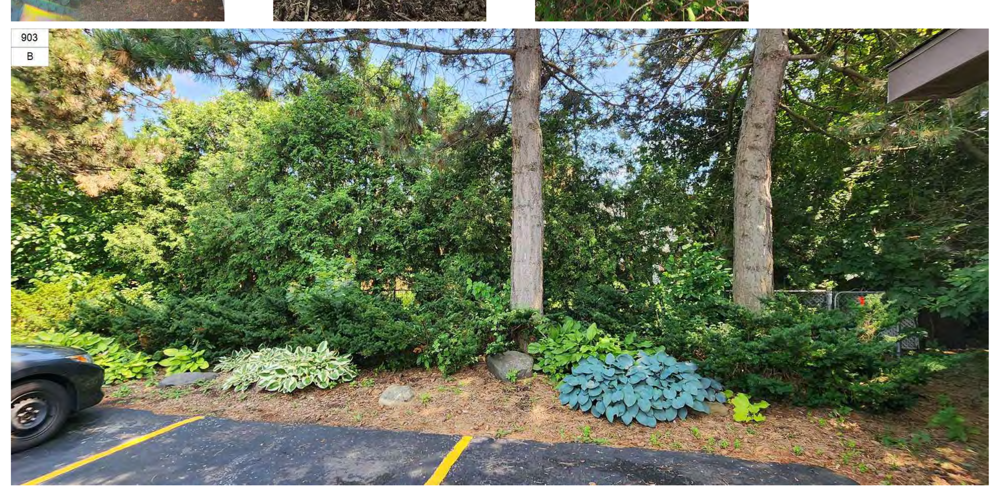


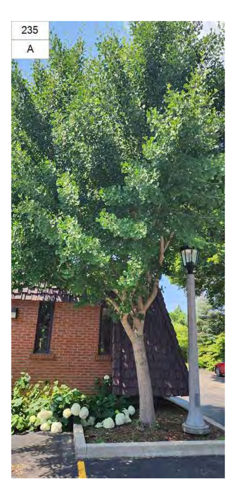


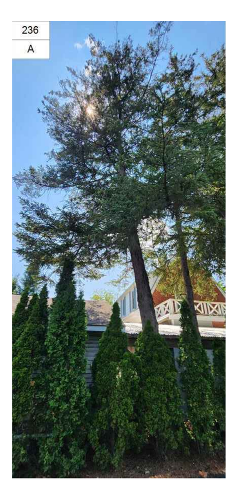


PLAINS ROAD EAST
(BY ORDER IN COUNCIL 4000/69, FORMERLY THE KING'S HIGHWAY No. 2)
(ROAD ALLOWANCE BETWEEN BROKEN FRONT CONCESSION AND CONCESSION 1)
(PART 3, INST. 1431 DEPARTMENT OF HIGHWAYS PLAN P-1957-44)
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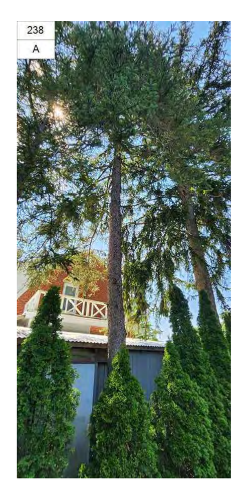
















General Notes

No.	Revision/Issue	Date

S. PLOWMAN ON-0425A

GLN FARM & FOREST RESEARCH CO. LTD.
2511 BRIDGE ROAD
OAKVILLE, ON L6L 2H3
TEL: 905-827-1134

Client:
BROOKLYN CONSTRUCTION
276 – 292 PLAINS RD EAST

Drawing Title:
TREE INVENTORY AND PHOTO REFERENCES

Date: 20–Jul–23	Project	276–292PLAINS
Scale: Custom		
Drawn By: SP	Sheet	TPR -902
Tree Survey Date: 10 JULY 2023		
Total Drawings: 3 of 3		