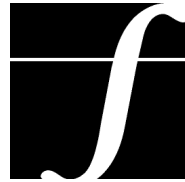


ARBORIST REPORT

ALMA Guelph Phase 2
Guelph, Ontario



Ferris + Associates Inc.
Landscape Architecture and Urban Design

September 25, 2023

Arborist Report for Development Applications

Municipal Address of Property:
601 Scottsdale Drive
Toronto, Ontario

Section 1 - Arborist Report

Consulting Arborist Information:

Ferris + Associates Inc.

Paul Ferris

pferris@ferrisassociatesinc.com

T. 416.366.6800

11 Church Street, Suite 302, Toronto, Ontario M5E 1W1

Date of Inspection:

June 23, 2023; 24°C, cloudy little rain

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
1	Austrian pine <i>Pinus nigra</i>	53	6.0	10	Fair	Balanced crown form; high Live Crown Ratio (LCR); minimal pruning -crown raising: sumac grouping beside tree.	Remove - Construction	Private Onsite	Yes
2	Norway maple <i>Acer platanoides</i>	46	6.5	11	Fair	Trees 2, 3, and 4 located adjacent parking strip; surface and girdling roots present; vertical branch crack; crown pruned; balanced crown; high LCR.	Retain - Injure	Private Onsite	
3	Norway maple <i>Acer platanoides</i>	41	5.5	9	Fair	Competing crowns with trees 2 and 4; thinning inside crown.	Retain - Injure	Private Onsite	
4	Norway maple <i>Acer platanoides</i>	52	6.5	11	Fair	Surface and girdling roots; dense crown condition; balanced crown shape.	Retain - Injure	Private Onsite	
5	Northern catalpa <i>Catalpa speciosa</i>	52	6.0	10	Fair	Tree located in parking island; balanced crown; minimal deadwood.	Remove - Construction	Private Onsite	Yes
6	Northern catalpa <i>Catalpa speciosa</i>	52	5.5	9	Poor to fair	Large vertical trunk scars; tree beside concrete walkway and new interlocking paving patio close to building; imbalanced crown shape.	Retain - Injure	Private Onsite	
7	Northern catalpa <i>Catalpa speciosa</i>	70	6.5	11	Fair	Lower branches pruned (crown raised); generally balanced crown form; basal cavity with rot and ant frass.	Retain - Injure	Private Onsite	
8	Austrian pine <i>Pinus nigra</i>	39	4.5	7	Poor	Tree located very close to building on slope; imbalanced crown form; crown deadwood; crown pruned.	Retain - Injure	Private Onsite	
9	Norway maple <i>Acer platanoides</i>	39	5.5	9	Poor to fair	Surface roots present; crown competing with tree 10; minimal deadwood; thinning inside crown condition.	Retain - Injure	Private Onsite	

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
10	Norway maple <i>Acer platanoides</i>	46	6.5	11	Fair	Surface and girdling roots; competing crown with tree 8 and 11; crown deadwood; foliage is chlorotic.	Retain - Injure	Private Onsite	
11	Norway maple <i>Acer platanoides</i>	45.5	6.0	10	Poor	Poor crown form with deadwood in upper crown section; broken branches.	Retain - Injure	Private Onsite	
12	Silver maple <i>Acer saccharinum</i>	46.5	7.0	12	Poor to fair	Defined trunk flare; trunk splits at 1.8m into 2 branches; large branch cut at 1m with centre rot; deadwood on south side; dense crown condition.	Remove - Construction	Private Onsite	Yes
13	Silver maple <i>Acer saccharinum</i>	13, 21	3.0	4	Very poor	Surface roots; trunk with split; 2 stems at 0.5m; significant crown deadwood.	Retain	Private Onsite	
14	Silver maple <i>Acer saccharinum</i>	18, 21	3.0	4	Very poor	Three dead trunk stems; bark peeling off trunk; Fruiting body of <i>Armillaria mellea</i> .	Retain	Private Onsite	
15	Little leaf linden <i>Tilia cordata</i>	33	5.0	8	Fair	Dense and balanced crown conditions; trunk base bulge; minimal crown deadwood; high LCR; defined trunk flare.	Remove - Construction	Private Onsite	Yes
16	Norway maple <i>Acer platanoides</i>	33	4.5	7	Poor	Large vertical trunk scar with fluxing seam; tree located beside parking strip; broken branches; crown deadwood.	Remove - Construction	Private Onsite	No
17	Norway maple <i>Acer platanoides</i>	33	5.0	8	Poor	Low live crown volume; crown deadwood; normal trunk form with no visible large defects.	Retain	Private Onsite	
18	Norway maple <i>Acer platanoides</i>	30	4.5	7	Poor	Girdling root; crown with top dead; broken branches.	Retain	Private Onsite	
19	Norway maple <i>Acer platanoides</i>	30	4.5	7	Poor	Trunk with base bulge; crown deadwood – poor crown form.	Retain	Private Onsite	
20	Norway maple <i>Acer platanoides</i>	30	5.0	8	Very poor	Girdling root; significant crown mortality.	Retain	Private Onsite	

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
21	Norway maple <i>Acer platanoides</i>	37.5	6.0	10	Poor	Surface roots; flat section on lower trunk area; crown deadwood; dead terminal portion of crown.	Retain	Private Onsite	
22	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-10cm)	2.5	3	Fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; Mulch surrounding tree; balanced crown form.	Remove - Construction	Municipal	Yes
23	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-8cm)	2.0	2	Fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown.	Remove - Construction	Municipal	No
24	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-8cm)	2.5	3	Fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown.	Retain	Municipal	
25	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-12cm)	2.5	3	Fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown; thinning crown condition.	Retain	Municipal	
26	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-8cm)	2.0	2	Poor to fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown; thinning crown condition; poor crown form.	Retain	Municipal	
27	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-12cm)	2.0	2	Poor to fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown; thinning crown condition; poor crown form.	Retain	Municipal	

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
28	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-10cm)	2.0	2	Poor to fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown; thinning crown condition; poor crown form.	Retain	Municipal	
29	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-12cm)	2.0	2	Poor to fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; thinning crown on west side – competing with Norway maple crown – one sided live crown to the east; thinning crown condition; poor crown form; slight trunk lean.	Retain	Municipal	
30	Pyramidal English oak <i>Quercus robur</i> 'Fastigiata'	Multi-stemmed (1-8cm)	2.25	2.5	Fair	Tree located between concrete sidewalk and curb with Hydro lines above crown; dense crown condition; competing with Norway maple crown.	Retain	Municipal	
31	Weeping cherry variety <i>Prunus pendula</i> var.	16	3.0	4	Fair	Short stature tree with light standard positioned in crown; dense and balanced crown condition; minimal internal crown deadwood.	Retain	Private Onsite	
32	Weeping cherry variety <i>Prunus pendula</i> var.	14.5	3.0	4	Fair	Short stature tree with light standard positioned in crown; dense and balanced crown condition; minimal internal crown deadwood.	Remove - Construction	Private Onsite	Yes
33	Thornless honey locust <i>Gleditsia triacanthos</i> var. <i>inermis</i>	30	5.5	9	Fair	Trunk with no visible major defects; imbalanced crown form; minimal crown deadwood; crown pruned on building side.	Retain	Private Onsite	
34	Thornless honey locust <i>Gleditsia triacanthos</i> var. <i>inermis</i>	21	3.5	5	Poor to fair	Trunk damage at 3m; thinning crown; crown pruned; crown deadwood.	Retain	Private Onsite	

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
35	Thornless honey locust Gleditsia triacanthos var. inermis	27	4.5	7	Poor to fair	Tree located on slope with driveway and concrete walkway; crown pruned; thinning crown; some crown deadwood; new mulch around tree.	Retain	Private Onsite	
36	Thornless honey locust Gleditsia triacanthos var. inermis	23.5	4.5	7	Poor to fair	Tree located on slope with driveway and concrete walkway; crown pruned; thinning crown; some crown deadwood; crown with epicormic shoots; new mulch around tree.	Retain	Private Onsite	
37	Thornless honey locust Gleditsia triacanthos var. inermis	27.5	4.0	6	Poor to fair	Tree located on slope with driveway and concrete steps; crown pruned; thinning crown; some crown deadwood; crown with epicormic shoots; new mulch around tree.	Retain	Private Onsite	
38	Austrian pine Pinus nigra	43	4.0	6	Very poor	Trunk with lean; very poor crown form – competing with adjacent tree; crown raised; trees 38 through 47 all with competing crowns with inside branches sometimes dead.	Remove - Construction	Private Onsite	No
39	Austrian pine Pinus nigra	37	4.0	6	Poor	Crooked upper branching form; crown raised; very poor crown form.	Retain - Injure	Private Onsite	
40	Austrian pine Pinus nigra	35	3.0	4	Poor	Trunk with co-dominant stems at ~5m; poor crown form; crown raised; thinning crown.	Retain	Private Onsite	
41	Austrian pine	50	3.5	5	Very poor	Trunk with 3 upper branches at ~1.5m; crown raised; thinning crown; poor crown form.	Retain	Private Onsite	
42	Austrian pine Pinus nigra	37	3.5	5	Very poor	Very low live crown present; crown raised.	Retain	Private Onsite	
43	Austrian pine Pinus nigra	42	4.0	6	Very poor	Very poor crown form; low live crown volume.	Retain	Private Onsite	
44	Austrian pine Pinus nigra	36.5	4.0	6	Very poor	Very poor crown form; low live crown volume.	Retain	Private Onsite	
45	Austrian pine Pinus nigra	43	4.5	7	Poor	Poor crown form; imbalanced crown form; crown raised.	Retain	Private Onsite	
46	Austrian pine Pinus nigra	36	4.0	6	Poor	Low LCR; crown raised.	Retain	Private Onsite	

Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
47	Austrian pine Pinus nigra	36.5	3.0	4	Very poor	Crooked trunk and crown form; minimal live crown volume.	Retain - Injure	Private Onsite	
48	Norway maple Acer platanoides	35	6.0	10	Poor to fair	Tree located beside parking strip and curb; thinning inside crown; balanced crown; surface roots; crown deadwood; trunk scar healing with woundwood present.	Retain - Injure	Private Onsite	
49	Norway maple Acer platanoides	34	6.0	10	Fair	Surface roots; thinning inside crown; balanced crown.	Retain - Injure	Private Onsite	
50	Norway maple Acer platanoides	36	6.0	10	Fair	Surface and girdling roots; balanced crown; thinning inside crown.	Retain - Injure	Private Onsite	
51	Norway maple Acer platanoides	40	5.5	9	Fair	Surface and girdling roots; balanced crown; thinning inside crown.	Retain - Injure	Private Onsite	
52	Norway maple Acer platanoides	49	7.5	13	Fair	Surface and girdling roots; balanced crown; thinning inside crown; broken branch end.	Retain - Injure	Private Onsite	
53	Norway maple Acer platanoides	48	6.0	10	Fair	Defined root flare; surface and girdling roots; balanced crown; thinning inside crown; broken branch end.	Retain - Injure	Boundary	
54	Norway maple Acer platanoides	50	6.5	11	Fair	Defined root flare; surface and girdling roots; balanced crown; thinning inside crown; broken branch end.	Retain - Injure	Private Offsite	
55	Norway maple Acer platanoides	22.5	2.5	3	Very poor	Small very poor formed tree in parking island; crown deadwood; vertical trunk scar; low live crown volume.	Remove - Construction	Private Onsite	No
56	Austrian pine Pinus nigra	36	4.0	6	Fair to poor	Trunk with no visible major defects; thinning crown; low live crown volume; crown deadwood.	Retain - Injure	Private Offsite	
57	Austrian pine Pinus nigra	42	4.0	6	Fair to poor	Trunk with no visible major defects; thinning crown; low live crown volume; crown deadwood; competing tree crowns.	Retain	Private Offsite	
58	Austrian pine Pinus nigra	60.5	5.5	9	Fair	Trunk with 2 stems (co-dominant) at ~2.2m; crown pruned.	Remove - Construction	Private Onsite	Yes


Tree No.	Tree Species	DBH (cm) *	TPZ (m) **	Crown Diameter (m)	Plant Condition **** Health & Structure Elements	Observations & Comments	Recommended Action (retain, relocate or Remove - Construction)	Ownership (private; on or offsite, boundary and municipal)	Compensation **** (yes or no)
59	Austrian pine Pinus nigra	40	4.0	6	Poor to fair	Trunk with 2 stems above 1.4m; poor crown form; crown deadwood; crown raised.	Remove - Construction	Private Onsite	Yes
60	Austrian pine Pinus nigra	54	4.5	7	Very poor	Scaffold branch at 1.6m; poor crown form; no true form to upper crown section; crown raised.	Remove - Construction	Private Onsite	No
61	Austrian pine Pinus nigra	42	4.5	7	Very poor	Two scaffold branches (38cm + 27.5cm diameters) at 0.75m; one scaffold branch at 1.6m; imbalanced crown form.	Remove - Construction	Private Onsite	No
62	Austrian pine Pinus nigra	46	4.5	7	Poor	Poor form to trunk and crowns; thinning crown condition.	Remove - Construction	Private Onsite	No
63	Austrian pine Pinus nigra	41	4.0	6	Poor	Poor form to trunk and crowns; thinning crown condition; crown deadwood; trunk lean.	Remove - Construction	Private Onsite	No
64	Austrian pine Pinus nigra	53	4.0	6	Very poor	Very poor formed tree; large scaffold branch; thinning crown.	Remove - Construction	Private Onsite	No
65	Austrian pine Pinus nigra	50	5.0	8	Poor	Poor formed tree; crown deadwood; crown raised.	Remove - Construction	Private Onsite	No
66	Austrian pine Pinus nigra	32	4.5	7	Poor	Poor formed tree; trunk lean; crown deadwood; crown raised.	Remove - Construction	Private Onsite	No
67	Austrian pine Pinus nigra	49	6.0	10	Fair	Trunk with no major visible defects; balanced crown form.	Remove - Construction	Private Onsite	Yes
68	Black walnut Juglans nigra	19 @ 1m	4.5	7	Good to fair	High LCR; dense crown condition; balanced crown form; somewhat crooked trunk form.	Remove - Construction	Private Onsite	Yes
69	Black walnut Juglans nigra	17.5	4.5	7	Good	High LCR; dense crown condition; balanced crown form.	Remove - Construction	Private Onsite	Yes
Tree group #1	2 black walnuts, 4 Northern catalpas Juglans nigra, Catalpa speciosa (6 trees)	average 10cm	7.0	12	Fair	Closely grouped trees with lack of live inside crowns; sumac vegetation abutting tree grouping.	Remove - Construction	Private Onsite	Yes

- * All trees to be retained on the development site and on adjacent sites where driplines are within 6m of the property line that are greater than or equal to 10 cm DBH (Diameter at breast height is the measurement of tree trunk diameter at 1.4 meters above grade).
- ** Tree Protection Zone (TPZ) indicates the minimum protection distance required and is to be measured from the outside edge of the tree base, or dripline plus 1m, whichever is greater.
- *** Plant Condition rating is determined based on International Society of Arboriculture (I.S.A.) protocol.
- **** Compensation for tree removals is set by the City of Guelph at 3 trees planted for every tree (DBH >=10cm) in Fair or better condition that is removed.

Removal of trees owned by others (e.g. private off-site, municipal or shared/boundary trees) require approval from the owner.

I verify that the information provided above is true, accurate and has been provided to the best of my ability.

<i>Paul D. Ferris</i>		<i>September 25, 2023</i>
_____	_____	_____
<i>Name of Consulting Arborist</i>	<i>Signature of Consulting Arborist</i>	<i>Date</i>

<i>Tony Molnar</i>		<i>September 25, 2023</i>
_____	_____	_____
<i>Name of Registered Professional Forester Ontario Professional Foresters Association Member RPF (#1781)</i>	<i>Signature of Registered Professional Forester</i>	<i>Date</i>

Compensation Requirements

The City of Guelph requires compensation for the loss of canopy cover for trees in **fair or better condition**, with the exception of invasive species. The City requires a replacement ratio of 3:1, or cash in lieu for each tree removed.

There will seventeen (**17**) **trees** currently identified for removal that will require compensation. This means that **51 native trees are to be planted** for compensation, or cash in lieu as mentioned above.

Existing Tree Conditions



Fig. 1 - Tree T1



Fig. 2 - Tree T2



Fig. 3 - Tree T3



Fig. 4 - Tree T4



Fig. 5 - Tree T5



Fig. 6 - Tree T6



Fig. 7 - Tree T6 Base of Trunk



Fig. 8 - Tree T6 Trunk



Fig. 9 - Tree T7



Fig. 10 - Tree T8



Fig. 11 - Tree T9



Fig. 12 - Tree T10



Fig. 13 - Tree T10 Base of Trunk



Fig. 14 - Tree T11



Fig. 15 - Tree T11 Canopy



Fig. 16 - Tree T12



Fig. 17 - Tree T13



Fig. 18 - Tree T14



Fig. 19 - Tree T15



Fig. 20 - Tree T16



Fig. 21 - Tree T16 Trunk



Fig. 22 - Tree T17



Fig. 23 - Tree T18



Fig. 24 - Tree T19



Fig. 25 - Tree T20



Fig. 26 - Tree T21



Fig. 27 - Tree T22



Fig. 28 - Tree T23



Fig. 29 - Tree T24



Fig. 30 - Tree T25



Fig. 31 - Tree T26



Fig. 32 - Tree 27



Fig. 33 - Tree T28



Fig. 34 - Tree T29



Fig. 35 - Tree T30



Fig. 36 - Tree T31



Fig. 37 - Tree T31 Canopy and Light



Fig. 38 - Tree T32



Fig. 39 - Tree T32 Canopy and Light



Fig. 40 - Tree T33



Fig. 41 - Tree T34



Fig. 42 - Tree T35



Fig. 43 - Trees T37, T36



Fig. 44 - Tree T37



Fig. 45 - Trees T41, T40, T39, T38



Fig. 46 - Trees T43, T42, T41, T40



Fig. 47 - Trees T45, T44, T43



Fig. 48 - Trees T46, T47



Fig. 49 - Tree T48



Fig. 50 - Tree T49



Fig. 51 - Tree T50



Fig. 52 - Tree T51



Fig. 53 - Tree T51 Trunk



Fig. 54 - Tree T52



Fig. 55 - Tree T53



Fig. 56 - Tree T52



Fig. 57 - Tree T55



Fig. 58 - Tree T56



Fig. 59 - Tree T57



Fig. 60 - Tree T58



Fig. 61 - Tree T59



Fig. 62 - Tree 60



Fig. 63 - Tree T60 Trunk



Fig. 64 - Tree T61



Fig. 65 - Tree T62



Fig. 66 - Trees T63, T64



Fig. 67 - Tree T64



Fig. 68 - Tree T65



Fig. 69 - Trees T65, T66, T67



Fig. 70 - Trees T66, T67



Fig. 71 - Tree 68



Fig. 72 - Tree 69



Fig. 73 - Tree T69



Notes
 BASE INFORMATION PROVIDED BY:
 VAN HARTEN SURVEYING INC., COMPLETED
 ON JULY 21, 2021 AND DATED JULY 20, 2022.

BASED ON:
 SURVEYOR'S REAL PROPERTY REPORT
 PLAN OF
 BLOCK 'K', REGISTERED PLAN 649
 CITY OF GUELPH
 COUNTY OF WELLINGTON

Legend

- Existing Trees, refer to Arborist Report
- Extent of Tree Protection Zone (Typical) as per City of Guelph Standards
- Extent of Tree Canopy
- Trees to be Preserved (Red circle with blue center)
- Trees to be Injured (Blue circle with blue center)
- Trees to be Removed (Red circle with red 'X' center)
- Tree Protection Fence (Orange line with cross-ticks)
- Property Line (Black dashed line)

TREE LOCATIONS HAVE BEEN LOCATED
 IN FIELD AND ARE APPROXIMATE

No.	Date	Revision
1.	SEPT. 25-23	Issued for Arborist Report

This drawing is to be used for the following purpose:
 Not to be used for construction unless signed by the Landscape Architect

Ferris + Associates Inc.
 Landscape Architecture and Urban Design
 11 Church Street
 Suite 302
 Toronto, Ontario
 M5E 1W1
 Telephone 416 366 6800
 www.ferrisassociatesinc.com

Client: **Forum Asset Management**

Project: **ALMA Guelph Phase 2**

Guelph, Ontario
 Drawing Title: **Tree Inventory / Preservation Plan**

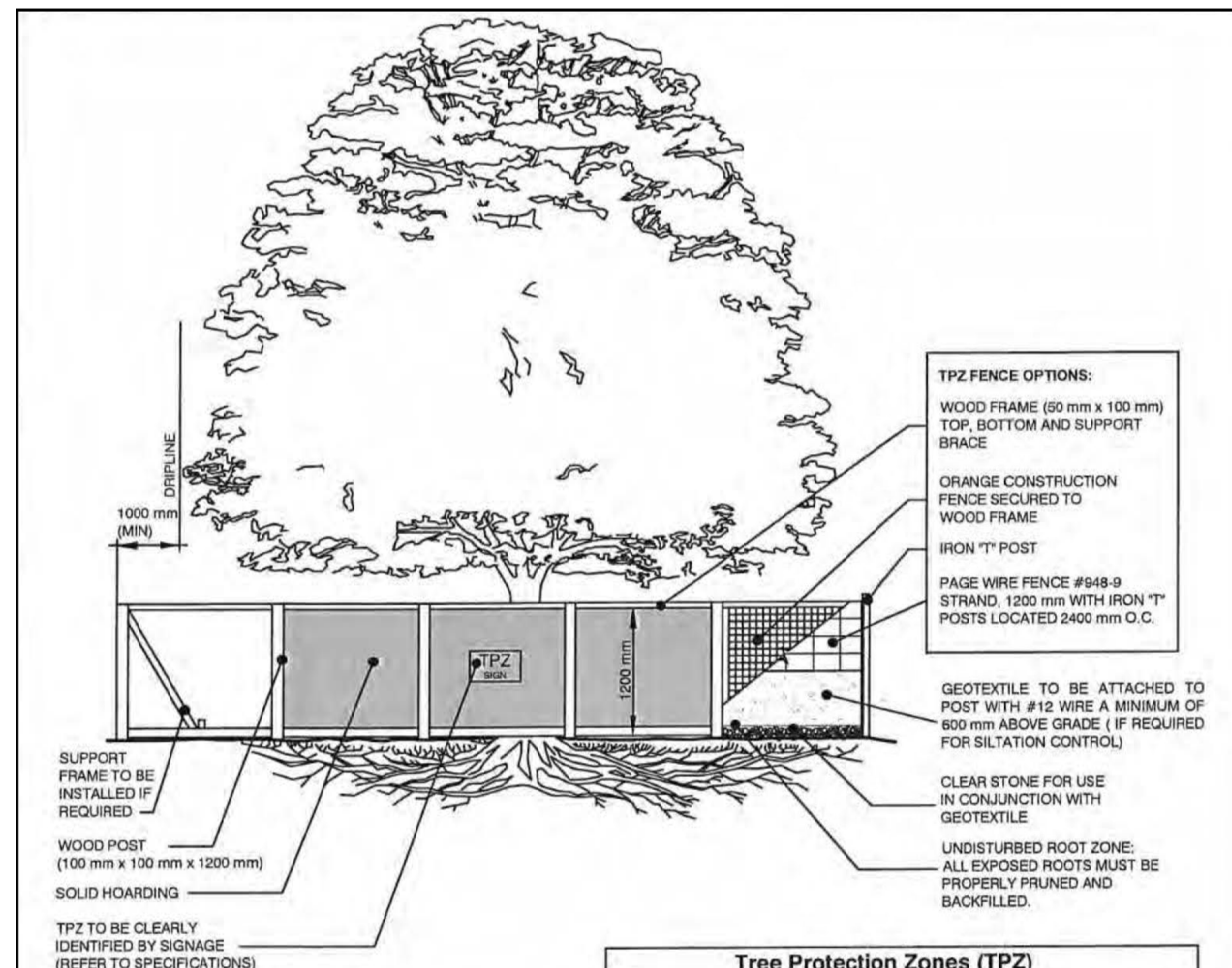
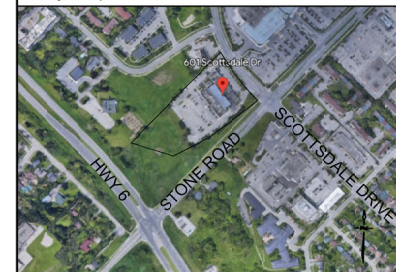
Date Plotted: **SEPTEMBER 2023**
 Scale: **1:750**
 Drawn: **AD**
 Checked: **PF**
 Project No: **27'9**
 Drawing No: **TIPP-1**

TREE TOTALS

Total Trees Inventoried: 75
 Total Trees Preserved: 28
 Total Trees Removed (Construction): 28
 Total Trees Injured: 19

COMPENSATION TOTALS
 *for trees (dbh>=10cm) being removed in fair or better condition)

Compensation Yes: 17
 Compensation No: 11
 Total Compensation Required at 3:1 for Tree Removals: 51



- TPZ FENCE OPTIONS:**
- WOOD FRAME (50 mm x 100 mm) TOP, BOTTOM AND SUPPORT BRACE
 - ORANGE CONSTRUCTION FENCE SECURED TO WOOD FRAME
 - IRON "T" POST
 - PAGE WIRE FENCE #948-9 STRAND, 1200 mm WITH IRON "T" POSTS LOCATED 2400 mm O.C.

Tree Protection Zones (TPZ)		
Diameter of Trunk Centimetres at 1.4 m above grade (DBH)	Minimum Tree Protection Zone (TPZ) Distance from trunk, measured in metres. ¹	Potential Rooting Area (PRA) for all trees and TPZ for trees in NHS, ² parks, open spaces and other significant natural heritage areas. ¹
<10	1.2	2.4
10-29	1.8	3.6
30-40	2.4	4.8
41-50	3.0	6.0
51-60	3.6	7.2
61-70	4.2	8.4
71-80	4.8	9.6
81-90	5.4	10.8
91-100	6.0	12.0
>100	6 cm per 1 cm DBH	12 cm per 1 cm DBH

Note:
 1- Or dripline plus 1 metre, whichever is greater.
 2- Natural Heritage System

- TREE PROTECTION BARRIER NOTES:**
- ALL TREE PROTECTION TO BE IN ACCORDANCE WITH THE "TREE TECHNICAL MANUAL".
 - REFER TO SPECIFICATION FOR ADDITIONAL DETAILS AND REQUIREMENTS RELATED TO THIS DETAIL.
 - HOARDING TYPE SHOULD BE DETERMINED IN CONSULTATION WITH THE CITY.
 - ALL TREE PROTECTION HOARDING SHALL BE IN PLACE AND MUST BE INSPECTED AND APPROVED BY THE CITY PRIOR TO ANY CONSTRUCTION ACTIVITIES.
 - ALL ARBORICULTURE WORK SUCH AS PRUNING OF BRANCHES AND ROOTS SHALL BE CONDUCTED BY OR UNDER THE SUPERVISIONS OF AN ARBORIST.
 - CONSTRUCTION ACTIVITIES, GRADE CHANGES, AND STORAGE OF EQUIPMENT AND MATERIALS ARE NOT ALLOWED WITHIN THE TREE PROTECTION ZONE.

CITY OF GUELPH STANDARD DRAWING		DATE DRAWN : MAY/19	REV. No. : -	
TREE PROTECTION ZONE (TPZ) FENCE DETAIL		DESCRIPTION : N.T.S.	REV. DATE : -	
		REV. DATE : -	REV. BY. : T.F.	PARKS OPERATIONS AND FORESTRY
		APPROVED BY:		UF 1.1
		MANAGER PARKS, OPERATIONS AND FORESTRY		

TREE PROTECTION ZONE (TPZ)

**NO GRADE CHANGE
DUMPING
STORAGE OF MATERIALS
STORAGE OF EQUIPMENT
UNAUTHORIZED ENTRY
TREE INJURY OR REMOVAL
DISTURBANCE OF ANY KIND**

THIS FENCING MUST NOT BE DAMAGED OR MOVED

CONTACT: Contractor name and telephone number of contact

City of Guelph: Forestry 519-837-5626 (parks@guelph.ca)
 Planning 519-837-5616 (planning@guelph.ca)

40 CM MIN. (height)
60 CM MIN. (width)

Sign Design, Installation and Maintenance: TPZ information signs shall be constructed from metal, corrugated plastic, Gatorboard or wood, and shall be installed in an appropriate manner such that it will be able to withstand inclement weather conditions. Signage shall be maintained in good condition and in the original location throughout the duration of site development works. Signage shall be clearly legible, with black text on a white background being the preferred design.

Sign Content: The TPZ information sign shall, at minimum, provide a list of activities prohibited within the TPZ. Such activities shall include, but not be limited to: grade change, dumping, storage of equipment and materials, unauthorized entry by personnel, tree injury or removal, or other disturbance of any kind. The signage shall also note that TPZ fencing shall not be damaged or removed. The signage shall also provide the contact information for the City of Guelph. A City of Guelph corporate logo shall be displayed on the TPZ information sign.

Sign Placement: TPZ information signs shall be affixed no more than 20 m apart on each side of tree protection fencing, at a height of no less than 100 cm.

Sign Size: TPZ information signs shall be a minimum of 40 cm x 60 cm in size

CITY OF GUELPH STANDARD DRAWING		DATE DRAWN : MAY/19	REV. No. : -	
TREE PROTECTION ZONE (TPZ) INFORMATION SIGNAGE DETAIL		DESCRIPTION : N.T.S.	REV. DATE : -	
		REV. DATE : -	REV. BY. : -	PARKS OPERATIONS AND FORESTRY
		APPROVED BY:		UF 1.2
		MANAGER PARKS, OPERATIONS AND FORESTRY		

No.	Date:	Revision
1.	SEPT. 25-23	Issued for Arborist Report

Ferris + Associates Inc.
 Landscape Architecture and Urban Design
 11 Church Street
 Suite 302
 Toronto, Ontario
 M5E 1W1
 Telephone 416 366 6800
 www.ferrisassociatesinc.com

Client: **Forum Asset Management**

Project: **ALMA Guelph Phase 2**

Drawing Title: **Tree Inventory / Preservation Plan Details**

Date Plotted: **SEPTEMBER 2023**
 Scale: **NTS**
 Drawn: **AD**
 Checked: **PF**
 Project No: **2719**
 Drawing No: **TIPP-2**