



Tree Inventory Report and Preservation Plan

Site Address:

**559 Garner Road East
Hamilton, Ontario
L9G 3K9**

Prepared For:

**Elite Developments
102-3410 South Service Road
Burlington, ON
L7N 3T2**

Date:

August 11, 2021

Prepared By:

John Stewart
Principal Consulting Arborist
ISA ON-0455AM
urbantreemanagementgroup@gmail.com

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Summary

The scope of this report assessed forty trees (referred to as the “Subject Tree”) that is or may potentially be affected by the proposed project at **559 Garner Road East, Hamilton, ON** (referred to as the “Subject Site”). The Urban Tree Management Group conducted a tree inventory and an assessment to evaluate the species, health and impact on the Subject Tree during and due to the construction of a proposed project at the Subject Site.

All inventoried trees are numbered and noted within an attached Tree Inventory Table referred to as **Appendix 1** and their locations are noted within an attached Tree Preservation Plan referred to as **Appendix 2**. There are several pertinent photographs of the Subject Tree and Subject Site which are attached within **Appendix 3** that may have relevance for this project. Reference material from the governing/regulating body, which in this case is the City of Hamilton, is attached within **Appendix 4**. These references have been noted to help assist the applicant of the proposed project during this process and while working with the governing/regulating body.

Assignment

The Urban Tree Management Group was retained by Elite Developments to assess the Subject Trees at or near the Subject Site and compile a Tree Inventory. In addition, a preservation plan for this proposed project was created and will contain preservation fencing comments with locations noted if required. The work was completed by Consulting Arborist John Stewart, whose qualifications are set out in **Appendix 5**.

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Limitations of the Scope of work/Assignment

The Urban Tree Management Group was contracted to conduct an identification, health and structure assessment of the inventoried trees as well as to provide a preservation report and plan. It is the owner/applicant's obligation to ensure that the recommendations provided in this report are carried out, as deemed appropriate by the City of Hamilton's governing staff.

Anyone reading this report should be familiar with trees and all their potential reactive physiological responses to the proposed project; otherwise further discussion with the consulting arborist will be required to understand the impact on the Subject Trees.

Arboriculture Considerations

Tree preservation is a pro-active measure that starts at the planning stage and continues throughout the project until completion. It is important to understand that tree root protection affects overall tree health and survivability is essential to effective tree preservation.

The roots provide nutrients and water to the leaves and branches, while supporting the tree in wind storms and preventing injury. Once a tree is injured, it is never the same. An injured tree allocates a great deal of energy to try to repair itself, often times at the expense of its vitality and sometimes leading it into a spiral decline.

Tree Preservation Fencing

The installation of tree preservation fencing is detailed in the Tree Preservation Plan attached as **Appendix 2**. Each tree in the inventory requires a minimum separation distance for adequate protection, and these requirements are listed in Tree Inventory Table.

Preservation fencing must remain in good condition throughout the construction project until completion and must not be removed for any reason without prior consent from the Town's appropriate governing staff. There must not be any access to or storage within the

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tree protection zone during the project. Materials and design specifications are listed are attached with in **Appendix 4**.

Access to the TPZ is only for general and regular maintenance of the grass and landscape. The preservation fencing should be inspected by the appropriate governing staff prior to construction, location and distances from the Subject Trees are noted within an attached Tree Preservation Plan referred to as **Appendix 2**.

Staging areas and Construction Access

Staging areas are understood to be outside the TPZ and at no time are materials, vehicles, traffic or debris to be stacked, staged, or piled inside the tree preservation fencing. If these areas are required to complete the proposed project they must be listed and shown with in the tree preservation plan. Approval of these areas must be approved by City of Hamilton's appropriate governing staff prior to commencement of construction of proposed project.

Observations

On Friday, the 6th of August 2021, Mr. Stewart visited the Subject Site and compiled the tree inventory. At the time, the weather was a sunny and humid. In general, the Subject Trees appeared to have a healthy growth pattern and is developing at a normal rate considering its close proximity to a serviced road/overhead utility lines.

Recommendations

Upon inspecting the Subject Site and review of the proposed plans it is the opinion of the onsite consulting arborist that the Subject Trees will not survive this project, due to their close proximity to the new building fabric and parking lots.

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Conclusion

It is the opinion of the onsite arborist that the Subject Trees on the Subject Site will require removal and will require permitting and permission from the City of Hamilton's appropriate department and staff. Any alteration to the Tree Preservation Plan or this report recommendations must be discussed with the consulting arborist and approved by The City of Hamilton prior to work commencing.

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Appendix 1 –Tree Inventory Table

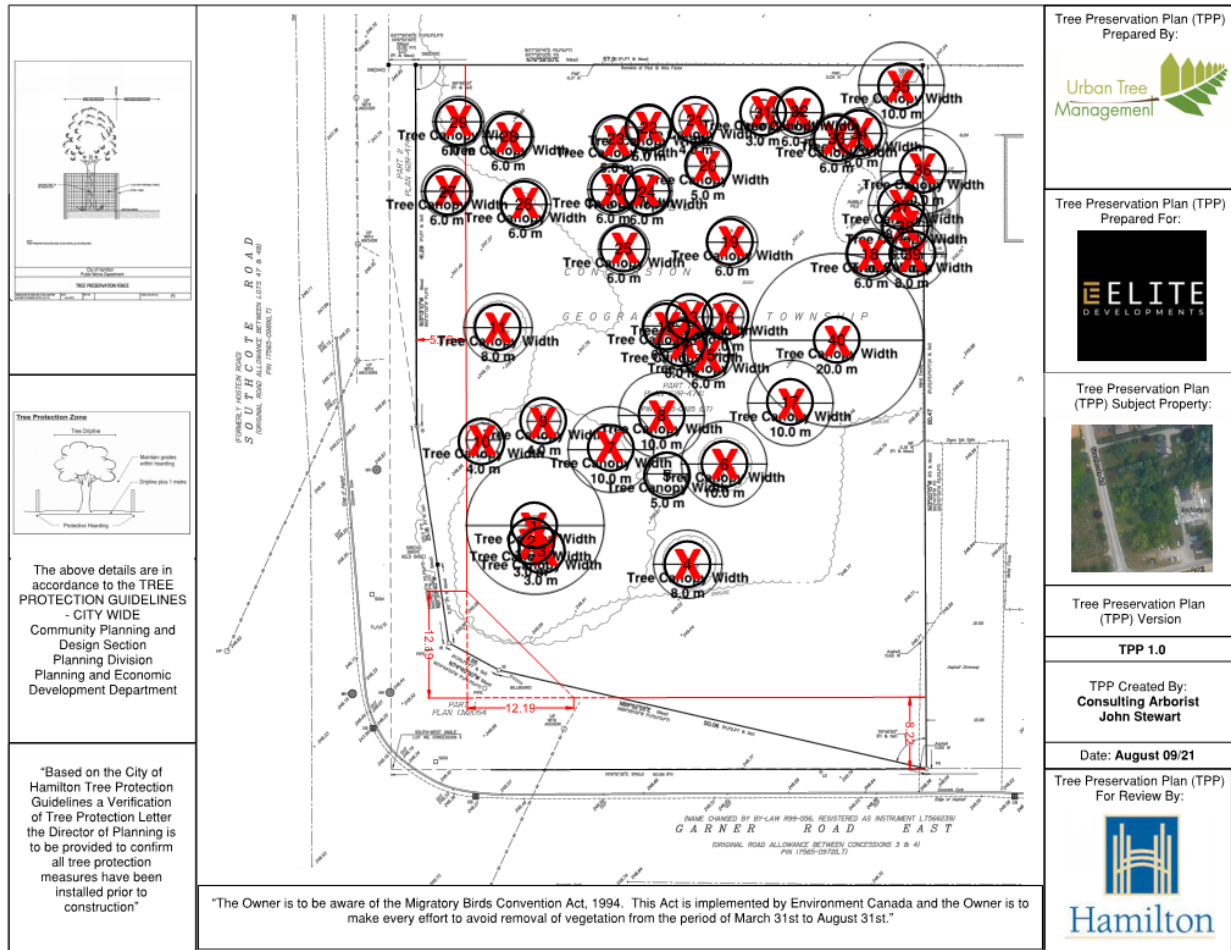
Tree Tag Number	Common Name	Botanical Name	dbh (cm) @ 1.4 m	Canopy Width in Metres	Tree Ownership	Tree Protection Zone (m)	Health	Structure	Construction Impact (None, Low, Medium, High)	Preservation Fencing Required	Removal	Field Notes/Recommendations
1	willow, weeping	Salix babylonica	186	16	Client	6.0	Good	Poor	High	No	Yes	High Impact From Proposed Project
2	maple, Norway	Acer platanoides	18	3	Client	2.4	Good	Fair	High	No	Yes	High Impact From Proposed Project
3	maple, Manitoba	Acer negundo	10	3	Client	2.4	Good	Fair	High	No	Yes	High Impact From Proposed Project
4	maple, Manitoba	Acer negundo	20	8	Client	2.4	Dead	Dead	None	No	Yes	High Impact From Proposed Project
5	hawthorn, spp.	Crataegus spp.	30	5	Client	2.4	Good	Fair	High	No	Yes	High Impact From Proposed Project
6	maple, Manitoba	Acer negundo	32	10	Client	2.4	Fair	Poor	High	No	Yes	High Impact From Proposed Project
7	ash, white	Fraxinus americana	16	10	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
8	cherry, black	Prunus serotina	50	10	Client	3.0	Fair	Fair	High	No	Yes	High Impact From Proposed Project
9	ash, white	Fraxinus americana	10	4	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
10	ash, white	Fraxinus americana	10	4	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
11	elm, Siberian	Ulmus pumila	42	8	Client	3.0	Fair	Fair	High	No	Yes	High Impact From Proposed Project
12	maple, Manitoba	Acer negundo	30	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
13	maple, Manitoba	Acer negundo	20	4	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
14	maple, Manitoba	Acer negundo	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
15	maple, Manitoba	Acer negundo	40	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
16	maple, Manitoba	Acer negundo	20	4	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
17	oak, white	Quercus alba	84	10	Client	5.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
18	maple, Manitoba	Acer negundo	30	6	Client	2.4	Fair	Good	High	No	Yes	High Impact From Proposed Project
19	maple, Manitoba	Acer negundo	34	6	Client	2.4	Fair	Poor	High	No	Yes	High Impact From Proposed Project
20	maple, Manitoba	Acer negundo	26	5	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
21	maple, Manitoba	Acer negundo	18	4	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
22	maple, Manitoba	Acer negundo	20	5	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
23	maple, Manitoba	Acer negundo	26	5	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
24	maple, Manitoba	Acer negundo	18	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
25	maple, Manitoba	Acer negundo	26	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project

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26	walnut, black	Juglans nigra	10	3	Client	2.4	Good	Fair	High	No	Yes	High Impact From Proposed Project
27	walnut, black	Juglans nigra	20	6	Client	2.4	Good	Fair	High	No	Yes	High Impact From Proposed Project
28	maple, Manitoba	Acer negundo	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
29	maple, Manitoba	Acer negundo	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
30	walnut, black	Juglans nigra	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
31	ash, white	Fraxinus americana	14	3	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
32	maple, Manitoba	Acer negundo	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
33	maple, Manitoba	Acer negundo	30	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
34	ash, white	Fraxinus americana	30	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
35	walnut, black	Juglans nigra	54	10	Client	3.6	Good	Good	High	No	Yes	High Impact From Proposed Project
36	maple, Manitoba	Acer negundo	48	10	Client	3.0	Fair	Fair	High	No	Yes	High Impact From Proposed Project
37	maple, Manitoba	Acer negundo	30	8	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
38	maple, Manitoba	Acer negundo	20	6	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
39	maple, Manitoba	Acer negundo	34	8	Client	2.4	Fair	Fair	High	No	Yes	High Impact From Proposed Project
40	sumac, staghorn	Rhus typhina	10	20	Client	2.4	Fair	Fair	High	No	Yes	Stand approximatly 20x20m canopy High Impact From Proposed Project

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Appendix 2 – Tree Preservation Plan



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Appendix 3 - Photos



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Appendix 4 – References

- <http://www2.hamilton.ca/NR/2015-Bylaws/15125.pdf>
- <https://treeshamilton.ca/wp-content/uploads/2017/04/City-of-Hamilton-Tree-Preservation-and-Sustainability-Policy.pdf>
- <http://www2.hamilton.ca/NR/rdonlyres/EC6F16CE-9DAC-46A6-A694-86ACA54155D9/0/treeprotectionguidelines.pdf>
- <http://www2.hamilton.ca/NR/rdonlyres/5F9F5453-4915-4379-8CD4-D10A7EA40778/0/Feb02PD02229eRev.pdf>

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Appendix 5 - Arborist Qualifications

JOHN STEWART

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WORK EXPERIENCE | PRINCIPAL CONSULTING ARBORIST, THE URBAN TREE MANAGEMENT GROUP

2016 - PRESENT

Conduct site monitoring and reporting for public and private sector construction projects for delivery to municipal foresters to ensure adherence to Tree Protection bylaws and specifications. Reports include mitigating recommendations as needed if subject trees are negatively impacted.

Perform vegetation impact assessments and pre-construction reports for civil infrastructure projects for various municipalities.

Complete tree risk assessments in both public and private settings through the utilization of TRAQ/QTRA/TRACE protocols and procedures.

Provide expert witness testimony in a variety of municipal and private tree risk related situations.

Conduct various tree health assessments and provide mitigating options and procedures. Create and carry out Plant Health Care (PHC) programs.

Perform professional expert arboriculture practices necessary to provide complete and ethical tree care.

Comprehensive knowledge of tree dendrology of over 150 trees with the ability to identify trees in all seasons.

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SENIOR CONSULTING ARBORIST, DAVEY RESOURCE GROUP

2014 - 2016

Perform vegetation impact assessments and pre-construction reports for civil infrastructure projects for various municipalities throughout the Golden Horseshoe and Greater Toronto Areas.

Conduct site monitoring and reporting for public and private sector construction projects for delivery to municipal foresters' to ensure adherence to Tree Protection bylaws and specifications. Reports include mitigating recommendations as needed if subject trees were negatively impacted.

Supervision and management of consulting arborists.

Completion of tree risk assessments utilizing GIS software in both public and private settings through the utilization of TRAQ protocols.

Completion of several visual tree inventory projects within a municipal context. Tree data was recorded electronically in a GIS program for future access by the municipality.

Comprehensive knowledge of tree dendrology for over 150 trees with the ability to identify trees in all seasons.

Provide expert witness testimony in a variety of municipal and private tree risk related situations.

MANAGER OF FORESTRY AND HORTICULTURE, CITY OF WATERLOO

2010 - 2014

Responsible for the daily activities and programs of the Forestry and Horticulture Departments.

Create and maintain budgets, report writing, briefing notes, strategies and council presentations.

Developed Emerald Ash Borer Management Plan and oversaw execution of plan.

Responsible for tree maintenance on Region of Waterloo right of ways.

Filled in as Acting Director of Environment and Parks on a regular basis.

Liaised with local media as necessary.

Oversaw winter snow removal operations for Parks Department.

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Liaised with community groups such as TD Green Streets, Trees Canada and 10000 Trees.

Negotiated easement and secondary land use agreements with organizations such as Hydro One and Grand River Conservation Authority.

FORESTRY OPERATIONS COORDINATOR, GRAND RIVER CONSERVATION AUTHORITY
2008 – 2010

Responsible for the daily activities of the forestry operations.

Risk assessment and hazard mitigation within the conservation areas and lands.

Responsible for the care of nursery stock including bare root refrigerated stock and potted material.

Liaised with tree planting initiative groups such as Trees for Guelph, Trees for Mapleton and Green Legacy.

Responsible for noxious weed management with all conservation properties.

Responsible for chainsaw safety training for all GRCA employees.

Developed Forestry Operations Safety Protocol.

URBAN FORESTRY FOREMAN, CITY OF BRAMPTON
2006 – 2008

Responsible for the daily activities and scheduling of the cities forestry department.

Met with residents, councilors and consultants to discuss, diagnosis and prescribe courses of action on Brampton's urban forest.

Had a key role in several events and initiatives such as the Communities in Bloom competition in which the City of Brampton was named the National Champion 2006 and World Champion 2008. During the 2008 event our forestry department received the highest ranking amongst Canada's other municipality forestry departments.

Acted as Brampton's delegate in a cooperative with Trees Canada and Toronto Conservation. This cooperative designed and created a community education forest from a regional buffer zone in order to help educate local schools and community groups on their urban forest.

Led a team from Brampton's forestry department to help out the Callander Bay community, which was devastated by a summer storm in 2006.

Oversaw winter snow removal operations within Parks Department.

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**EDUCATION AND
TRAINING**

INTERNATIONAL SOCIETY OF ARBORICULTURE

CERTIFIED ARBORIST: ON 0455AM
CERTIFIED MUNICIPAL SPECIALIST
CERTIFIED TREE RISK ASSESSMENT QUALIFIED

HUMBER COLLEGE

HORTICULTURE APPRENTICESHIP PROGRAM
ARBORICULTURE APPRENTICESHIP PROGRAM

EUSA

SAFETY AND AWARENESS FOR LINE CLEARING CERTIFICATE
SAFETY IN LINE CLEARING CERTIFICATE
8 TON CRANE CERTIFICATE

ARBORICULTURE CANADA

CHAINSAW SAFETY AND TECHNICAL TREE FELLING CERTIFICATE
HAZARD AND DANGER TREE CUTTING AND FELLING CERTIFICATE
TREE DYNAMICS AND INTEGRATED RISK ASSESSMENT CERTIFICATE

ONTARIO ARBORIST PROVINCIAL DESIGNATION 444A-373728

HORTICULTUREALIST LANDSCAPER GREENSKEEPER 441B-31950

PNW-International Society of Arboriculture – Certified Tree Risk Assessor Qualification (TRACE)

**Quantified Tree Risk Assessment System – Quantified Tree Risk Assessor (QTRA No.4426)
Butternut Health Assessor – BHA # 569 designated by the Ministry of Natural Resources and Forestry (MNR).**

Ontario Exterminator License – Landscape Exterminator 047496

OFSWA – PROFESSIONAL CHAINSAW OPERATOR AND TRAINER

EMERGENCY FIRST AID, CPR/AED A

MENTAL FIRST AID CANADA – BASIC MENTAL FIRST AID CERTIFICATE

ONTARIO DZ DRIVER'S LICENSE

OCCUPATIONAL HEALTH AND SAFETY, SUPERVISOR HEALTH AND SAFETY AWARENESS

TOWN OF OAKVILLE BUSINESS LICENCE TYPE: ARBORIST/NO. 19-102706

**TEACHING AND
TRAINING
EXPERIENCE**

HUMBER COLLEGE OF APPLIED TECHNOLOGIES, *Teacher Arboriculture Apprenticeship Program*

Taught the classes of Plant Health Care and Arboriculture Theory for three years
Technician for the Advanced Climbing class for two years

COLLEGE OF THE NORTH ATLANTIC, *Instructor, Skills Development Program*

Contract Instructor for the college delivering modern climbing and felling techniques for this skills development program

UNIVERSITY OF TORONTO, *Instructor, Employee Safety Training*

Delivered chainsaw safety and operation, chipper and stumper operation and felling procedures programs to the maintenance staff for the university.

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**PROFESSIONAL
VOLUNTEER
ACTIVITIES**

ISAO Past President Executive Board of Directors
ISAO President 2018
ISAO Board Member with duties including Trade Magazine and MAUF Liaison
Technical Editor of Ontario Arborist magazine for ISAO
ISAO Climbing Competition Committee Member
ISA Exam Proctor for ISA Certifications
MTCU Industry Committee Member - Arboriculture
Part of a risk management for woodlots committee for MAUF (Municipal Arborist and Urban Foresters Association).

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