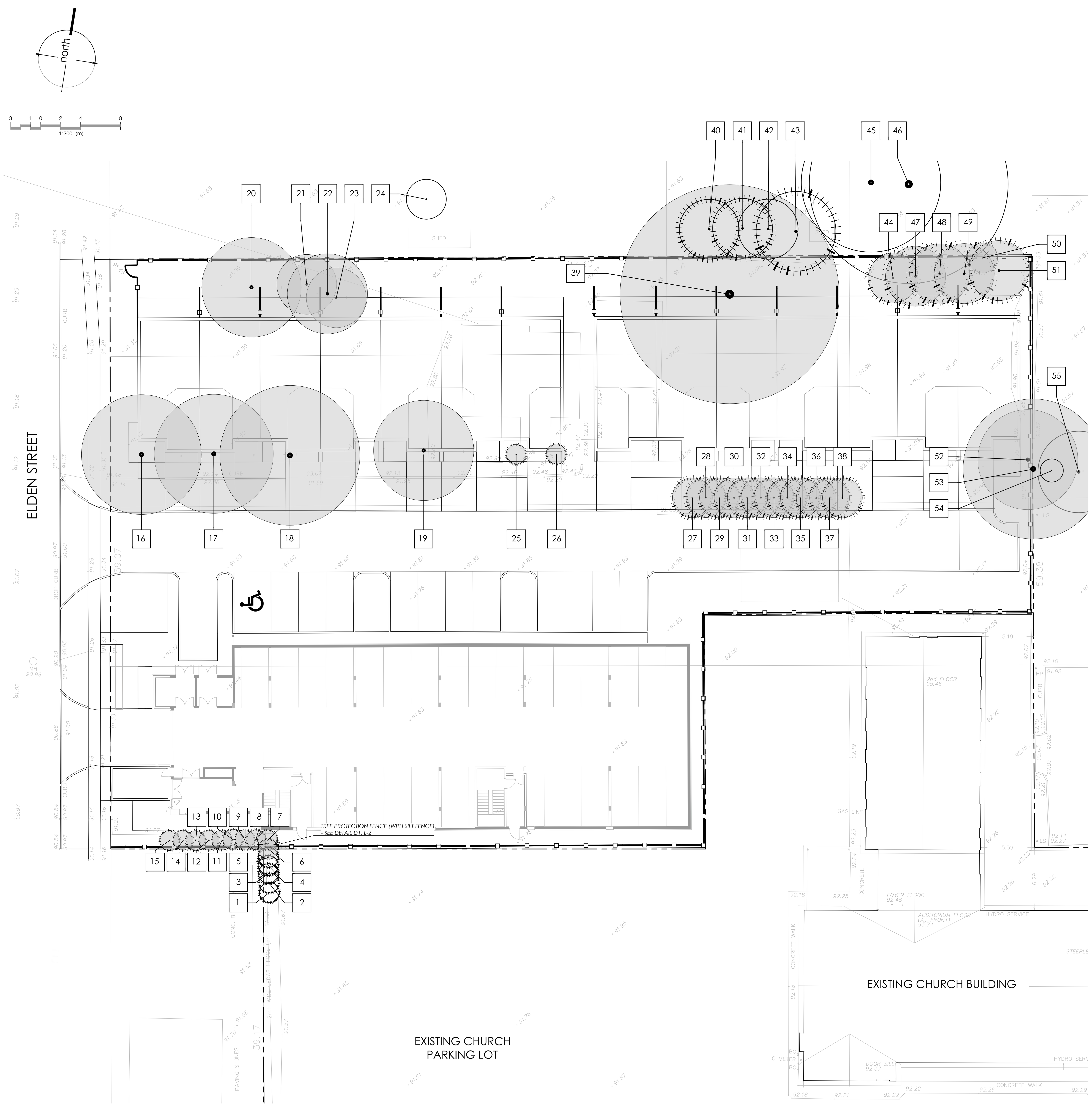


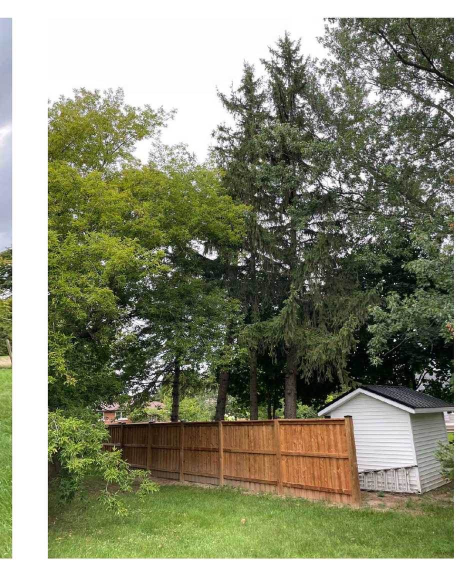
Trees #1-15

Trees #16-18

Tree #19

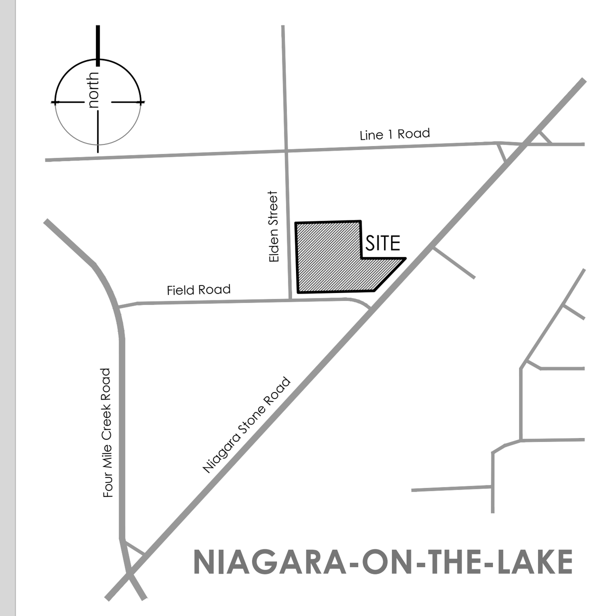
Tree #20-23

Tree #39


Tree #40-43

Trees #52-55

KEY MAP - N.T.S.



LEGEND

- property line
- UNIT 2 — vegetation unit (refer to chart)
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- existing vegetation to be removed
- 91.76 — existing elevations
- TPF — tree protection fence (with silt fence) - see detail D1, L-2

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NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on 09/13/2023.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
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Upper Canada Consultants (UCC)

MUNICIPALITY
Town of Niagara-on-the-Lake

PROJECT
1570 Niagara Stone Road

MUNICIPAL FILE NUMBER

SHEET
Tree Protection Plan

L-1

adesso design inc.
landscape architecture

69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
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project #: 23-201

EXISTING VEGETATION IDENTIFICATION TABLE

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	CC	Comments	Potential Impact from Construction	Ownership	Reccomendation
1	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~12, 9, 9	G	G	G	CD	Union at ground		Subject Property	SAVE
2	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~11, 11, 7	G	G	G	CD	Union at ground		Subject Property	SAVE
3	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~10, 8, 7	G	G	G	CD	Union at ground		Subject Property	SAVE
4	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~12, 9	G	G	G	CD	Union at ground		Subject Property	SAVE
5	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~10, 9, 7	G	G	G	CD	Union at ground		Subject Property	SAVE
6	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~10, 8, 7	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
7	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~10, 12	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
8	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~8, 7	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
9	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~6, 7, 7	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
10	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	~10, 13	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
11	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	15	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
12	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	11, 9, 9	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
13	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	13, 6, 7	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
14	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	9, 8, 8	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
15	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	12, 8, 8	G	G	G	CD	Union at ground	Conflict with proposed walkway and wood privacy fence	Subject Property	REMOVE
16	Norway Maple	*Acer platanoides*	43	F	G	G	CD	Union at 1.7 m, girdling roots	Conflict with proposed townhouse	Subject Property	REMOVE
17	Norway Maple	*Acer platanoides*	55	F	G	G	CD	Union at 1.8 m, growth deficit, girdling roots, stem wound in scaffold lim	Conflict with proposed townhouse	Subject Property	REMOVE
18	Norway Maple	*Acer platanoides*	62	F	G	G	CD	Union at 2 m, girdling roots	Conflict with proposed townhouse	Subject Property	REMOVE
19	Honey Locust cultivar	*Gleditsia triacanthos var. 'inermi*	51	G	G	G	CD		Conflict with proposed townhouse	Subject Property	REMOVE
20	Sweet Cherry	*Prunus avium*	26	G	F	F	CD	20% crown dieback	Conflict with proposed townhouse	Subject Property	REMOVE
21	Sweet Cherry	*Prunus avium*	18, 17	P	P	P	I	Union at 0.5 m with heavy stem wound, 90% crown dieback	Conflict with proposed townhouse	Subject Property	REMOVE
22	Black Walnut	*Juglans nigra*	18	G	G	G	CD		Conflict with proposed townhouse	Subject Property	REMOVE
23	Norway Maple	*Acer platanoides*	16	G	G	G	CD		Conflict with proposed townhouse	Subject Property	REMOVE
24	English Walnut	*Juglans regia*	~45	G	G	G	D			Neighbouring	SAVE
25	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	12, 18	G	G	G	D	Union at ground	Conflict with proposed townhouse	Subject Property	REMOVE
26	Emerald Cedar	*Thuja occidentalis 'Smaragd'*	1, 13, 14, 10, 1	FG	G	G	D	Unions at ground and 0.6 m	Conflict with proposed townhouse	Subject Property	REMOVE
27	Eastern White Cedar	*Thuja occidentalis*	13, 13, 16	G	G	G	CD	Unions at ground and 0.4 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
28	Eastern White Cedar	*Thuja occidentalis*	17, 10	G	G	G	CD	Union at 0.4 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
29	Eastern White Cedar	*Thuja occidentalis*	17, 7, 7	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
30	Eastern White Cedar	*Thuja occidentalis*	12, 13, 14	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
31	Eastern White Cedar	*Thuja occidentalis*	11, 11, 8	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
32	Eastern White Cedar	*Thuja occidentalis*	13, 14, 15	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
33	Eastern White Cedar	*Thuja occidentalis*	17, 11	G	G	G	CD	Union at 0.5 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
34	Eastern White Cedar	*Thuja occidentalis*	17, 17, 16	G	G	G	CD	Unions at ground and 0.5 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
35	Eastern White Cedar	*Thuja occidentalis*	17, 8	G	G	G	CD	Union at 1 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
36	Eastern White Cedar	*Thuja occidentalis*	18, 12, 7	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
37	Eastern White Cedar	*Thuja occidentalis*	20, 17	G	G	G	CD	Union at 0.5 m	Conflict with proposed townhouse driveway	Subject Property	REMOVE
38	Eastern White Cedar	*Thuja occidentalis*	20, 29	G	G	G	CD	Union at ground	Conflict with proposed townhouse driveway	Subject Property	REMOVE
39	Manitoba Maple	*Acer negundo*	64, 63	F	FG	G	CD	Union at 1 m, stem wound	Conflict with proposed townhouse	Subject Property	REMOVE
40	White Spruce	*Picea glauca*	~28	G	G	G	CD			Neighbouring	SAVE
41	Norway Spruce	*Picea abies*	~35	G	G	G	CD			Neighbouring	SAVE
42	Norway Spruce	*Picea abies*	~30	G	G	G	CD			Neighbouring	SAVE
43	Norway Spruce	*Picea abies*	~35	G	G	G	CD			Neighbouring	SAVE
44	White Spruce	*Picea glauca*	12	G	G	G	I		Conflict with proposed townhouse	Subject Property	REMOVE
45	Silver Maple	*Acer saccharinum*	~60	G	G	G	CD			Neighbouring	SAVE
46	Silver Maple	*Acer saccharinum*	~60	FG	G	G	CD	Union at 1.6 m		Neighbouring	SAVE
47	White Spruce	*Picea glauca*	19	G	G	G	I		Conflict with proposed townhouse	Subject Property	REMOVE
48	White Spruce	*Picea glauca*	~18, 9	FG	G	G	I	Union at ground	Conflict with proposed townhouse	Subject Property	REMOVE
49	White Spruce	*Picea glauca*	15	G	G	G	I		Conflict with proposed townhouse	Subject Property	REMOVE
50	Eastern White Cedar	*Thuja occidentalis*	~10, 10, 8, 7, 7	G	G	G	I	Union at ground	Conflict with proposed townhouse and wood privacy fence	Subject Property	REMOVE
51	White Spruce	*Picea glauca*	16	G	G	G	CD		Conflict with proposed townhouse	Subject Property	REMOVE
52	English Walnut	*Juglans regia*	32	G	G	G	CD		Conflict with proposed townhouse and wood privacy fence	Subject Property	REMOVE
53	Manitoba Maple	*Acer negundo*	41	PF	F	FG	CD	Heavy lean west	Conflict with proposed townhouse and wood privacy fence	Boundary	REMOVE
54	English Walnut	*Juglans regia*	13	P	P	P	I	Stem failed at 1.7 m		Neighbouring	SAVE
55	English Walnut	*Juglans regia*	~20, 15	FG	G	G	CD	Union at ground		Neighbouring	SAVE

MIGRATORY BIRDS AND NESTS:

1. The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically;
    - No tree removal or construction activity shall contravene the Act.
    - Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 31.
    - If work must occur during the migratory bird breeding season, a nest survey should be taken by a qualified avian biologist.
    - A mitigation plan (showing active nests and appropriate buffers) may be required for review and approval by the Canadian Wildlife Services.

TREE REMOVAL:

1. No trees shall be removed prior to municipal approvals of the Tree Management/Tree Preservation Plan.

BOUNDARY TREES:

2. Note that boundary trees are protected under the Ontario Forestry Act. Boundary trees are defined in the Forestry Act (Section 10.2) and are considered shared or co-owned property. The Forestry Act indicates that it is a prosecutable offense for one co-owner to injure or cut down a boundary tree without the other co-owner's permission.
3. Written permission from the neighbouring property owner is required prior to removal or injury of any boundary tree(shared ownership) or any tree that is not fully on the subject property.
4. An ISA certified Arborist should be on site prior to any work being performed within the rootzone of a boundary or neighbouring tree to perform root pruning as required.

* CROWN CLASS
Dominant- (D) Emergent canopy (receives full sunlight)
Co-dominant - (C) Not fully emergent (top of canopy receives sunlight)
Intermediate - (I) Sub-canopy tree (receives partial sunlight)

** CONDITION - consideration of trunk integrity, crown structure and crown vigor
Good - few or no issues related to trunk integrity, crown structure or crown vigor
Fair - minor issues related to trunk integrity, crown structure (form, some dead or damged branches) or crown vigor (20-80% healthy foliage)
Poor - issues with trunk integrity such as cavities or exposed dead wood, poor crown structure (poor form, no clear leader, significant dead or damaged branches) or poor crown vigor (<20% healthy foliage)

CONDITION OF TREES
The decision to remove or retain a tree is subject to the forecasted development impacts, the structural condition of the tree (e.g. cracks, cavities, decay, weak branching, leaning, hazard potential), the biological condition of the tree (e.g. pest or disease concerns, overall health) and the suitability of the tree in its location (e.g. hardiness, soil conditions, salt tolerance, visual obstruction, available soil volume)

CHART LEGEND/CODES

DBH: Diameter at Breast Height (cm)

Trunk Integrity (TI): G = Good, F = Fair, P = Poor

Crown Structure (CS): G = Good, F = Fair, P = Poor

Crown Vigor (CV): G = Good, F = Fair, P = Poor

Crown Class: D = Dominant, CD = Codominant, I = Intermediate, S = Suppressed

NOTE:
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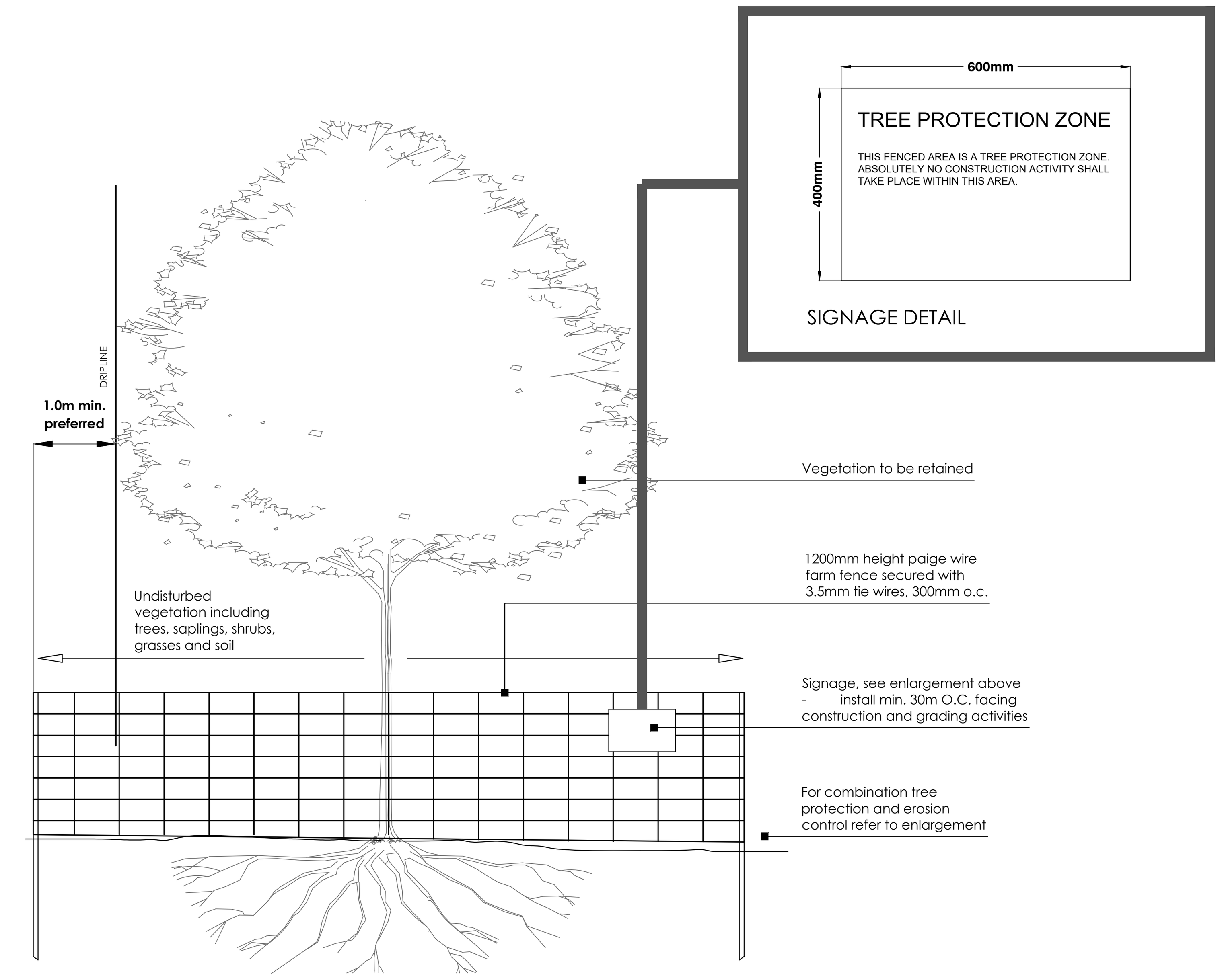

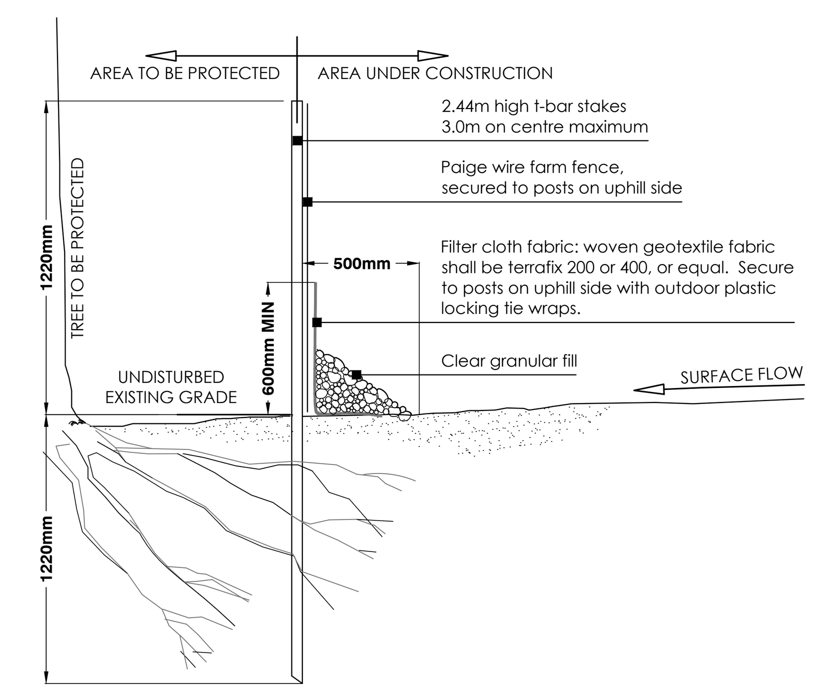

NOTES:

1. The area within the dripline of all existing trees shall be properly protected with temporary fencing.
2. The area within the protective fencing shall remain undisturbed with no construction activity, grade changes, surface treatment, compaction, or excavation. Area shall not be used for the storage of building materials or equipment access/storage or project related garbage.
3. Tree protection measures shall be installed prior to any demolition, tree removal or construction and shall remain until the completion of fine grading and sodding or seeding.
4. Prune all trees for dead, diseased, weak or hazardous branches only. also trim back branches which will interfere with construction, prune for structural restoration where necessary.
5. No stockpiles and/or excavated material shall be placed within the tree preservation area.
6. No rigging cable shall be wrapped around or installed to trees.
7. Where root systems of protected trees are exposed directly adjacent to or damaged by construction work they are to be root pruned and the area back filled with topsoil to prevent root desiccation. An Arborist is required to be on site for any injury or cutting to the root system or surface roots of a protected tree.
8. Any fine grading within the preservation area is to be done by hand. no heavy equipment is permitted within the preservation zone.
9. Sediment accumulations to be removed by subdivider/builder when sediment deposits reach within 150mm of top of filter fabric barrier.
10. A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon request.
11. This detail does not represent any particular tree species.

Tree Protection Fencing (with silt fence) 1 / L-2
N.T.S.

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NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on 09/13/2023.

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PROJECT
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SHEET
Tree Protection Plan L-2

adesso design inc.
landscape architecture
69 John Street South, Suite 250
Hamilton, ON L8N 2B9
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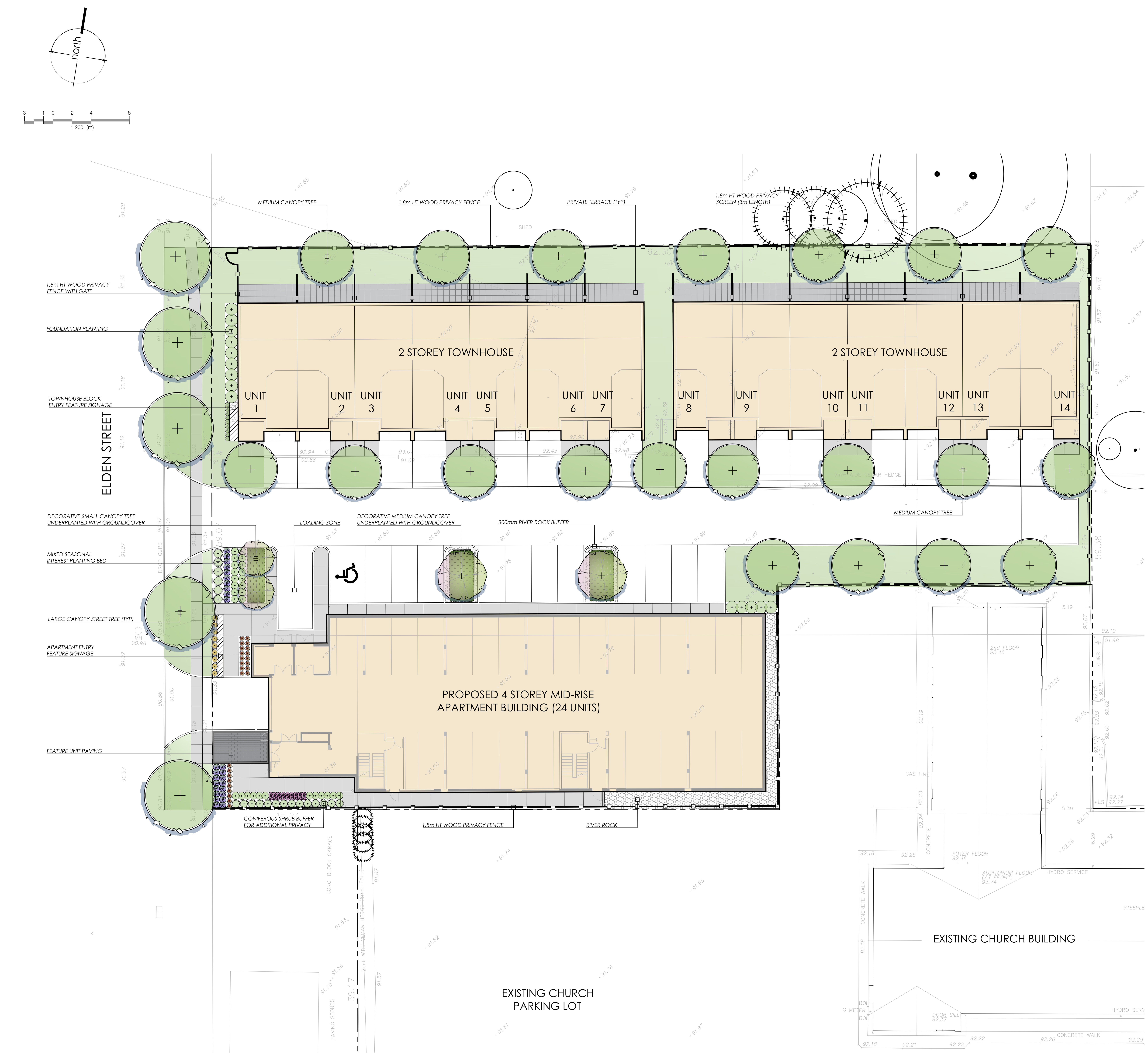
project #: 23-201



LANDSCAPE NOTES:

1. All work to be carried out in accordance with by-laws and codes having jurisdiction over site location.
2. Complete all work to the satisfaction of the Landscape Architect.
3. Report any changes, discrepancies or substitutions to the Landscape Architect for review. Obtain approval from the Landscape Architect before proceeding.
4. It is the contractor's responsibility to determine existing service locations.
5. Exact locations of plant material will be determined by placement of site services such as hydro vaults, meters, utilities roof rain water leaders, driveways, light standards, etc.
6. All plant material locations to be staked or marked out and approved by Landscape Architect prior to installation.
7. Supply all plant material in accordance with the Canadian Standards for Nursery Stock (8th ed.).
8. Install plant material according to details shown.
9. Supply and place mulch in accordance with Canadian Landscape Standard (Section 10, Mulching). Disturbed soil areas around trees and shrubs are to be covered with shredded conifer bark mulch such as 'Cedar Bark Mulch' by All Treat Farms or 'Classic Cedar Mulch' by Gro-Bark, or approved equivalent. Alternative mulches must be approved by the Landscape Architect.
10. Contractor to utilize layout dimensions where provided
11. Provide planting bed area as noted on the drawing or to accommodate mature size of plant material.
12. All support systems must be removed by the contractor at time of final acceptance. No extras will be paid to complete this work
13. Supply and place topsoil in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) to a minimum depth of 150mm unless otherwise specified.
14. Supply and place sod in accordance with Canadian Landscape Standard (Section 7, Lawns & Grass and Section 8, Turfgrass Sod)unless otherwise specified.
15. Supply and place seed in accordance with Canadian Landscape Standard (Section 4, Grading & Drainage and Section 6, Growing Medium) unless otherwise specified. All 5:1 or greater slopes to be seeded with tacifier. Contractor to provide necessary erosion control protection as required to ensure soil stabilization and proper seed germination.
16. All dimensions in meters unless otherwise noted.
17. If discrepancies arise between plant material count shown on drawing and plant list, the drawing shall be considered correct.
18. Contractor to provide minimum one (1) year warranty (including trees on municipal property) from date accepted on all work unless otherwise specified.
19. Any site plan or grading and servicing shown is for information only. Refer to approved drawings.
20. Not for construction unless stamped, signed and dated by Landscape Architect.
21. Drawings not to be reproduced without written consent from Landscape Architect.
22. Approval of landscape plan to be obtained from municipality.
23. All plant material to be planted a minimum of 1.0m from any swales or ditches.
24. For grading and servicing information refer to the consulting Engineer's drawings.
25. For lighting information and power distribution refer to the electrical consultant's drawings.

KEY MAP - N.T.S.

LEGEND

- property line
- existing tree to remain
- proposed deciduous tree
- proposed shrub
- proposed perennial
- proposed groundcover
- existing elevation
- proposed elevation
- min. 150mm topsoil, fine grade & sod
- C.I.P. concrete
- precast concrete unit pavers

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