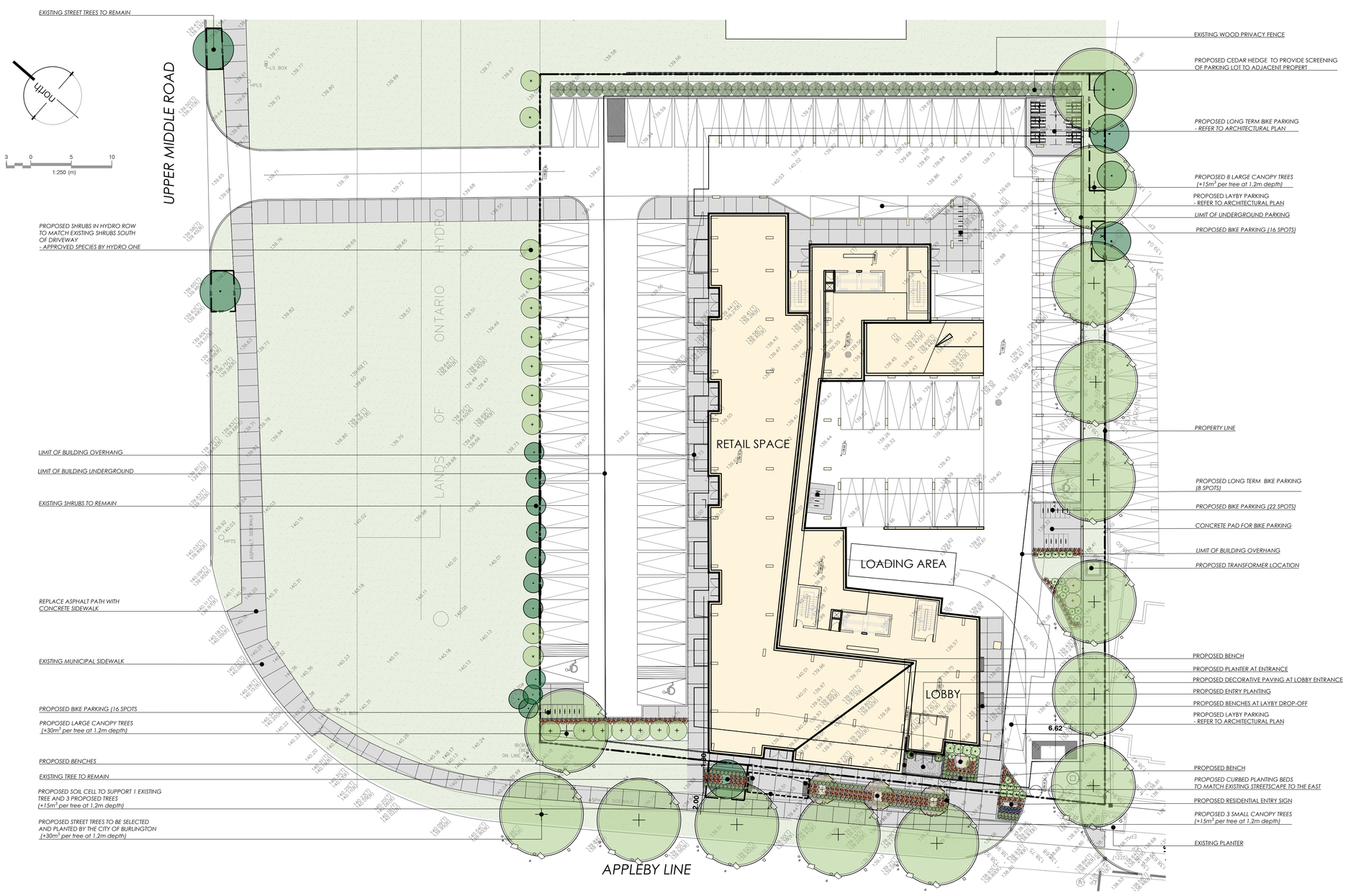
project #: 22-026



KEY MAP - N.T.S.



LEGEND

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

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1	2022-05-31	Issued for rezoning

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MUNICIPALITY
City of Burlington

PROJECT
1989 Appleby Line

MUNICIPAL FILE NUMBER

SHEET
Landscape Concept Plan

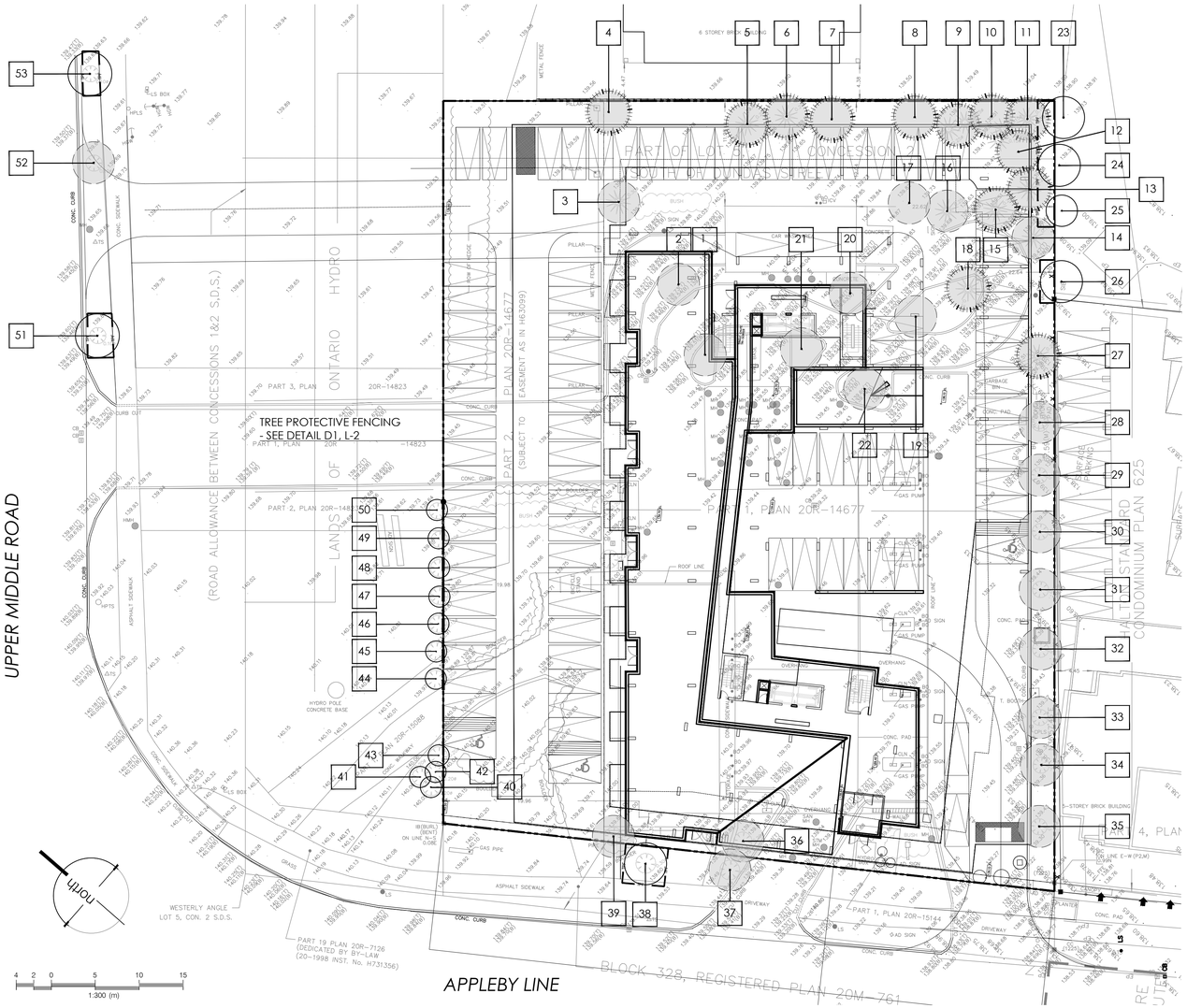
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project #: 22-026




Tree 1


Tree 3


Tree 4


Tree 5-9

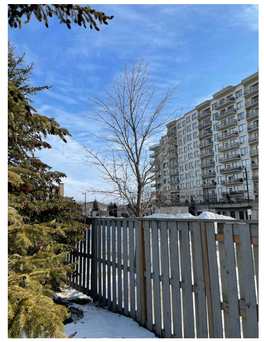

Tree 12-15


Tree 16-17

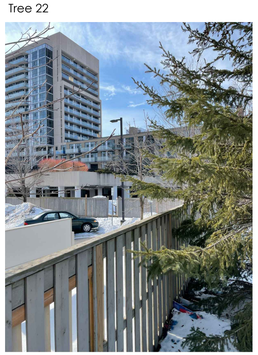

Tree 18-19


Tree 21


Tree 22


Tree 23


Tree 24


Tree 25


Tree 26


Tree 27


Tree 40-42


Tree 29-35


Tree 36-39

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
- 139.60 — existing elevations
- TPF — tree protective fencing - see detail D1, L-2

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NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-ON-1089A) on February 21, 2022.

REVISIONS/ SUBMISSIONS

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Tree Protection Plan
L-1

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project #: 22-026

EXISTING VEGETATION IDENTIFICATION TABLE

Tree #	Common Name	Scientific Name	DBH	Cond.	CW	mTPZ	CC	Location	Comments	Potential Impact from Construction	Recommendation
1	Little-leaf Linden	*Tilia cordata*	13	F	4	2.4	D	Subject Property	NOT ON SURVEY: Main stem dead in crown, multiple branch attachments	Conflict with proposed building	Remove
2	Little-leaf Linden	*Tilia cordata*	16	FG	4	2.4	D	Subject Property	NOT ON SURVEY: Multiple branch attachments	Conflict with proposed building	Remove
3	Little-leaf Linden	*Tilia cordata*	24	FG	6	2.4	D	Subject Property	Multiple branch attachments, girdling root	Conflict with proposed building	Remove
4	White Spruce	*Picea glauca*	11	G	4	2.4	D	Subject Property		Grading within root zone	Remove
5	White Spruce	*Picea glauca*	11	FG	4	2.4	D	Subject Property	Lean	Conflict with proposed underground	Remove
6	White Spruce	*Picea glauca*	13	G	4	2.4	D	Subject Property		Conflict with proposed underground	Remove
7	White Spruce	*Picea glauca*	11	G	4	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed underground	Remove
8	Blue Spruce	*Picea pungens*	12	G	4	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed underground	Remove
9	White Spruce	*Picea glauca*	12	G	4	2.4	D	Subject Property		Conflict with proposed underground	Remove
10	White Spruce	*Picea glauca*	13	FG	4	2.4	D	Subject Property	NOT ON SURVEY: Guy wires starting to girdle stem	Conflict with proposed underground	Remove
11	White Spruce	*Picea glauca*	11	G	4	2.4	D	Subject Property		Conflict with proposed underground	Remove
12	White Spruce	*Picea glauca*	10	FG	4	2.4	D	Subject Property	NOT ON SURVEY: Sparse crown	Conflict with proposed underground	Remove
13	White Spruce	*Picea glauca*	16	FG	6	2.4	CD	Subject Property	Dead leader	Conflict with proposed underground	Remove
14	Little-leaf Linden	*Tilia cordata*	15	FG	4	2.4	CD	Subject Property	Multiple branch attachments	Grading within root zone	Remove
15	Blue Spruce	*Picea pungens*	21	G	4	2.4	CD	Subject Property		Conflict with proposed underground	Remove
16	Little-leaf Linden	*Tilia cordata*	20	G	6	2.4	CD	Subject Property		Conflict with proposed building	Remove
17	Little-leaf Linden	*Tilia cordata*	16	FG	6	2.4	CD	Subject Property	NOT ON SURVEY: Union at 1.6 m	Conflict with proposed building	Remove
18	Blue Spruce	*Picea pungens*	~28	G	6	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed building	Remove
19	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	19	G	8	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed building	Remove
20	Little-leaf Linden	*Tilia cordata*	16	FG	4	2.4	D	Subject Property	NOT ON SURVEY: Union at 1.7 m/multiple branch attachments	Conflict with proposed building	Remove
21	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	12	G	6	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed building	Remove
22	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	14	G	6	2.4	D	Subject Property	NOT ON SURVEY	Conflict with proposed building	Remove
23	Norway Maple	*Acer platanoides*	~13	G	4	2.4	D	Neighbouring	NOT ON SURVEY		Save
24	Norway Maple	*Acer platanoides*	~13	FG	4	2.4	D	Neighbouring	NOT ON SURVEY		Save
25	Norway Maple	*Acer platanoides*	~6	FG	2	1.8	D	Neighbouring	NOT ON SURVEY: 10% crown dieback		Save
26	Silver Maple	*Acer saccharinum*	~20	G	8	2.4	D	Neighbouring	NOT ON SURVEY		Save
27	Blue Spruce	*Picea pungens*	27	G	6	2.4	D	Subject Property		Grading within root zone	Remove
28	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	19	G	6	2.4	D	Subject Property		Grading within root zone	Remove
29	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	17	G	6	2.4	D	Subject Property		Grading within root zone	Remove
30	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	15	G	6	2.4	D	Subject Property		Grading within root zone	Remove
31	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	21	FG	6	2.4	D	Subject Property	Seam	Grading within root zone	Remove
32	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	15	G	6	2.4	D	Subject Property		Grading within root zone	Remove
33	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	18	G	6	2.4	D	Subject Property		Grading within root zone	Remove
34	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	15	G	6	2.4	D	Subject Property		Grading within root zone	Remove
35	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	16	G	8	2.4	D	Subject Property		Grading within root zone	Remove
36	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	26	G	10	2.4	CD	Subject Property		Conflict with proposed underground	Remove
37	Little-leaf Linden	*Tilia cordata*	24	G	6	2.4	CD	ROW		Conflict with site removals	Remove
38	Little-leaf Linden	*Tilia cordata*	29	G	6	2.4	D	ROW			Save
39	Honey Locust cultiva	*Gleditsia triacanthos var. 'inermis'*	21	G	8	2.4	CD	Subject Property		Grading within root zone	Remove
40	Amur Maple	*Acer ginnala*	>10					ROW	Shrub to be retained		Save
41	Amur Maple	*Acer ginnala*	>10					ROW	Shrub to be retained	Conflict with proposed access driveway	Remove
42	Amur Maple	*Acer ginnala*	>10					ROW	Shrub to be retained		Save
43	Amur Maple	*Acer ginnala*	>10					ROW	Shrub to be retained		Save
44	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
45	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
46	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
47	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
48	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
49	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
50	Seviceberry	*Amelanchier canadensis*	>10					ROW	Shrub to be retained		Save
51	Japanese Flowering	*Syringa reticulata 'ivory silk'*	10	F	2	2.4	D	ROW	Large stem wound		Save
52	Japanese Flowering	*Syringa reticulata 'ivory silk'*	10	FG	2	2.4	D	ROW	Stem wound at flare		Remove
53	Japanese Flowering	*Syringa reticulata 'ivory silk'*	11	FG	2	2.4	D	ROW			Save

Legend		
DBH	Diameter at Breast Height	(cm)
Con.	Condition	(G, F, P)
CW	Crow n Width	(m)
mTPZ	Minimum Tree Preservation	(m)
CC	Crow n Class	(D, CD, I)
D	Dominant	
CD	Co-dominant	
I	Intermediate	
S	Suppressed	
G	Good	
F	Fair	
P	Poor	

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.*

NOTE:
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.

** 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)

Tree Protection and Preservation
Specification No.: SS12

Detail TP-1 – Tree Protection Detail

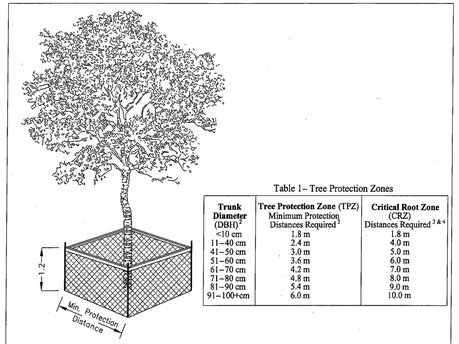


Table 1– Tree Protection Zones

Trunk Diameter (DBH)[1,2]	Tree Protection Zone (TPZ) Minimum Protection Distances Required[3]	Critical Root Zone (CRZ) Distances Required[3 & 4]
<10 cm	1.8 m	1.8 m
11–40 cm	2.4 m	4.0 m
41–50 cm	3.0 m	5.0 m
51–60 cm	3.6 m	6.0 m
61–70 cm	4.2 m	7.0 m
71–80 cm	4.8 m	8.0 m
81–90 cm	5.4 m	9.0 m
91–100+cm	6.0 m	10.0 m

TREE PROTECTION BARRIER

1. Tree protection barriers for trees situated on the City road allowance where visibility must be maintained can be 1.2m high and consist of orange plastic web snow fencing on a wood frame of 2" x 4" s, supported on metal "T" bars, 2.0m c/c max. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing shall be used.

2. Where some excavate or fill has to be temporarily located near a tree protection barrier plywood must be used to ensure no material enters the Tree Protection Zone.

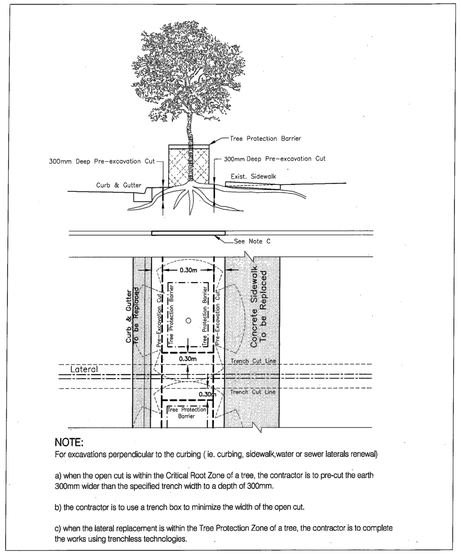
3. All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.

4. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the Tree Protection Zone.

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March 2011

Tree Protection and Preservation
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Detail TP-2 – Root Pruning Detail



NOTE:
For excavations perpendicular to the curbing (ie. curbing, sidewalk,water or sewer laterals renewal)

a) when the open cut is within the Critical Root Zone of a tree, the contractor is to pre-cut the earth 300mm wider than the specified trench width to a depth of 300mm.

b) the contractor is to use a trench box to minimize the width of the open cut.

c) when the lateral replacement is within the Tree Protection Zone of a tree, the contractor is to complete the works using trenchless technologies.

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March 2011

Tree Protection Fencing (with silt fence)

SCALE: NTS

1
L-2

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NOTE:
Vegetation inventory undertaken by Jeremy Jackson, ISA Certified Arborist (ON-1089A) on February 21, 2022.

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