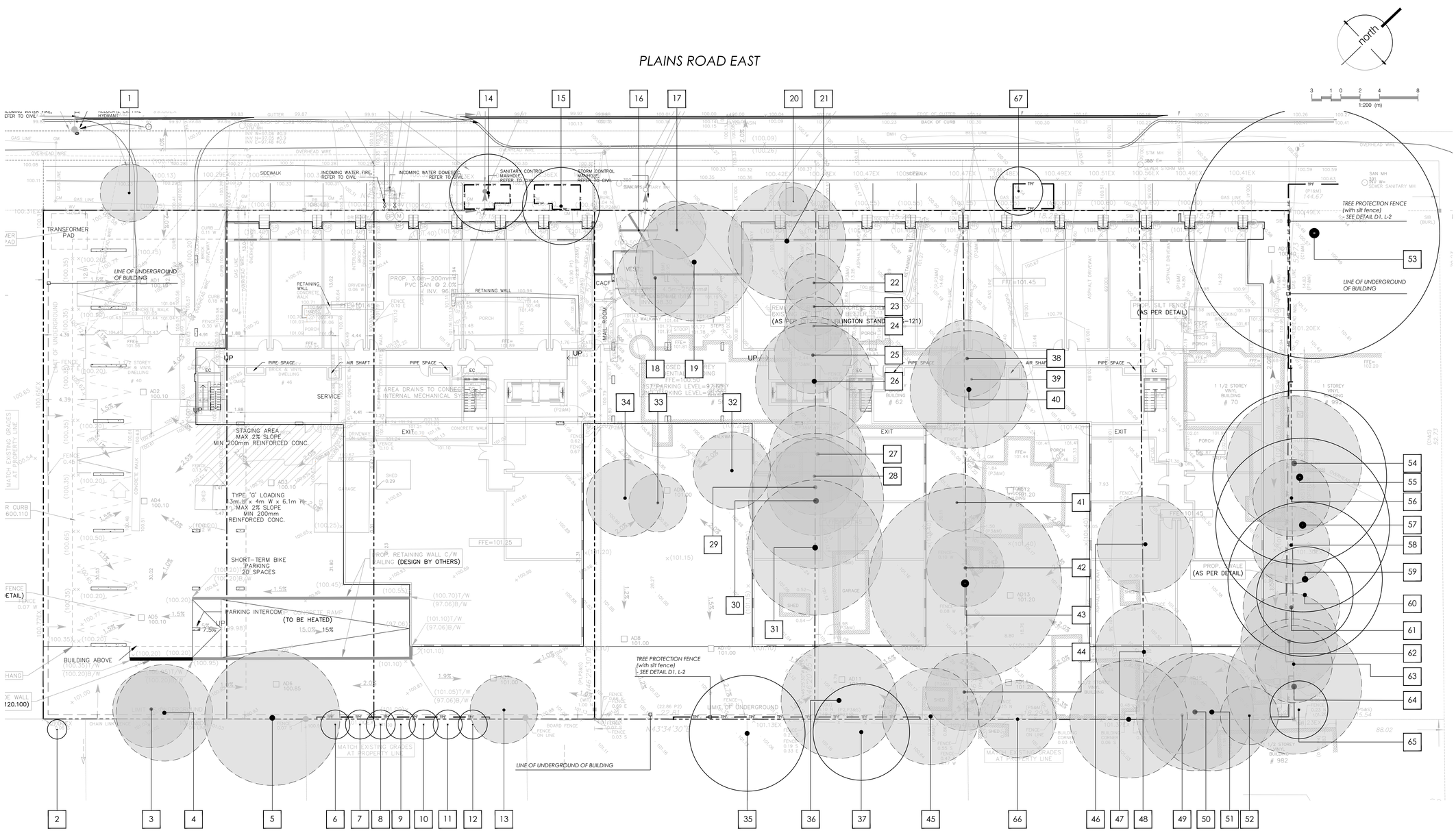
project #: 20-146



Tree #1



Trees #6 - 13



Tree #43



Tree #53



KEY MAP - N.T.S.



LEGEND

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

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NOTE:
Vegetation inventory undertaken by Nate Torenvliet, ISA Certified Arborist (ON-1782A) on August 27, 2020.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2020-08-31	Issued for review
2	2020-09-04	Issued for submission
3	2020-09-29	Issued for submission
4	2021-04-16	Issued for submission

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MARIO PATRIZIO — OALA — MEMBER

CLIENT
Infinity Development Group

MUNICIPALITY
City of Burlington

PROJECT
40-70 Plains Road East

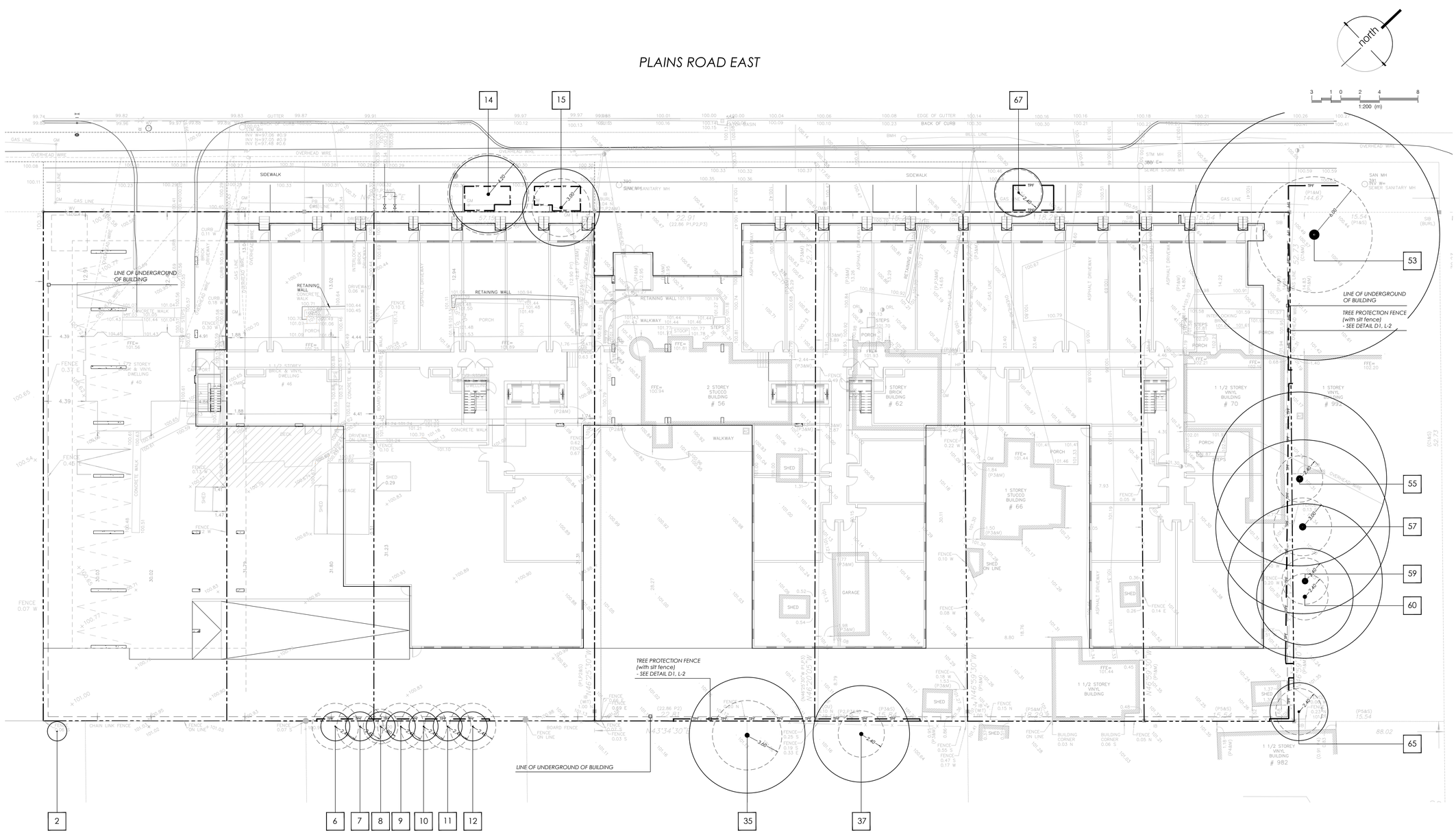
MUNICIPAL FILE NUMBER

SHEET
Tree Protection Plan
L-1

adesso design inc.
landscape architecture
218 Locke Street South, 2nd Floor
Hamilton, ON L8P 4B4
t. 905.526.8876
www.adessodesigninc.ca

REF:C:\Users\Rob\Dropbox (ADESSO DESIGN INC)\ADESSO Files\By Municipality\01 Current Drawings\20-146\20-146 LAYOUT1.PPF
LAST SAVED BY:Rob (ADESSO) - Friday, April 16, 2021 4:13:29 PM PLOTTED BY:Rob (ADESSO) - Saturday, April 17, 2021 2:54:21 AM

project #: 20-146



KEY MAP - N.T.S.



LEGEND

- property line
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- tree protection zones as per City of Burlington Guidelines
- existing elevations
- TPF — tree protection fence (with silt fence) - see detail D1, L-2

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NOTE:
Vegetation inventory undertaken by Nate Torenvliet, ISA Certified Arborist (ON-1782A) on August 27, 2020.

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATTIROLI
MEMBER

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Infinity Development Group

MUNICIPALITY
City of Burlington

PROJECT
40-70 Plains Road East

MUNICIPAL FILE NUMBER

SHEET
Tree Protection Plan
TPZs of Retained Trees
L-2

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project #: 20-146

EXISTING VEGETATION IDENTIFICATION TABLE

TREE/UNIT NO.	SPECIES (COMMON NAME)	SPECIES (BOTANICAL NAME)	DBH (cm)	CROWN CLASS*	CONDITION**	VEGETATION VALUE & PHYSICAL CONSTRAINTS	POTENTIAL IMPACTS FROM CONSTRUCTION	OWNERSHIP	RECOMMENDATION
1	Norway Maple	Acer plantanoides	40	D	Fair	Blading on south side from removed tree.	Conflict with driveway entrance	R.O.W.	REMOVE
2	White Cedar	Thuja occidentalis	10	D	Good	-	None	Neighbouring	SAVE
3	White Pine	Pinus strobus	23	C	Good	-	Conflict with proposed parking structure and building	On property	REMOVE
4	White Pine	Pinus strobus	50	C	Good	-	Conflict with proposed parking structure and building	On property	REMOVE
5	White Mulberry	Morus alba	67	C	Fair	Large broken limb	Conflict with proposed parking structure	Boundary	REMOVE
6	Norway Spruce	Picea abies	13	C	Fair	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
7	White Cedar	Thuja occidentalis	12 [5, 10]	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
8	White Cedar	Thuja occidentalis	8	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
9	White Cedar	Thuja occidentalis	25 [15, 20]	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
10	White Cedar	Thuja occidentalis	27 [10, 15, 20]	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
11	White Cedar	Thuja occidentalis	31 [15, 15, 22]	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
12	White Cedar	Thuja occidentalis	24 [10, 15, 15]	C	Fair	Poor form - bald on north side.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
13	White Mulberry	Morus alba	26	D	Good	-	Conflict with proposed development	On property	REMOVE
14	Littleleaf Linden	Tilia cordata	62	C	Good	-	Proposed sidewalks in area leading to front doors = grading within root zone, refer to Arborist Report	R.O.W.	SAVE
15	Littleleaf Linden	Tilia cordata	45	C	Good	-	Proposed sidewalks in area leading to front doors = grading within root zone, refer to Arborist Report	R.O.W.	SAVE
16	Sp.	sp.	-	-	Dead	-	Dead, hazard	On property	REMOVE
17	Colorado Spruce	Picea pungens	39	C	Poor	-	Conflict with proposed development	On property	REMOVE
18	London Plane	Platanus x acerifolia	43	C	Good	-	Conflict with proposed development	On property	REMOVE
19	Honey Locust	Gleditsia tricanthos	45	C	Good	-	Conflict with proposed development	On property	REMOVE
20	Colorado Spruce	Picea pungens	10	I	Fair	-	Conflict with proposed development, in fair condition	R.O.W.	REMOVE
21	Honey Locust	Gleditsia tricanthos	50	C	Good	-	Conflict with proposed building	On property	REMOVE
22	White Spruce	Picea glauca	39	C	Poor	Significant decline.	Conflict with proposed building	On property	REMOVE
23	White Spruce	Picea glauca	32 [21, 24]	C	Fair	Poor form - tight crotch.	Conflict with proposed building	On property	REMOVE
24	Siberian Elm	Ulmus pumila	23 [10, 14, 15]	C	Fair	-	Conflict with proposed building	On property	REMOVE
25	White Spruce	Picea glauca	40	C	Fair	Dead in canopy	Conflict with proposed building	On property	REMOVE
26	White Spruce	Picea glauca	55	C	Good	-	Conflict with proposed building	On property	REMOVE
27	Norway Spruce	Picea abies	39	C	Poor	Dead in canopy	Conflict with proposed building	On property	REMOVE
28	Siberian Elm	Ulmus pumila	28	C	Fair	-	Conflict with proposed building	On property	REMOVE
29	Norway Maple	Acer plantanoides	25	C	Fair	-	Conflict with proposed building	On property	REMOVE
30	Norway Spruce	Picea abies	56	C	Fair	Poor form - reiterated main stem.	Conflict with proposed building	On property	REMOVE
31	Norway Spruce	Picea abies	55	C	Good	-	Conflict with proposed building	On property	REMOVE
32	Sweet Cherry	Prunus avium	26	D	Good	Landscape tree.	Conflict with proposed building	On property	REMOVE
33	Sweet Cherry	Prunus avium	13	C	Good	Landscape tree.	Conflict with proposed building	On property	REMOVE
34	Sweet Cherry	Prunus avium	22	C	Good	Landscape tree.	Conflict with proposed building	On property	REMOVE
35	Siberian Elm	Ulmus pumila	60	D	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
36	Manitoba Maple	Acer negundo	46	C	Fair	Poor form - broken top/leader.	Conflict with proposed development, in fair condition and poor form.	On property	REMOVE
37	Siberian Elm	Ulmus pumila	38	D	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
38	Norway Maple	Acer plantanoides	29	C	Fair	-	Conflict with proposed building	On property	REMOVE
39	Norway Maple	Acer plantanoides	17	I	Poor	-	Conflict with proposed building	On property	REMOVE
40	Black Walnut	Juglans nigra	45	D	Good	-	Conflict with proposed building	On property	REMOVE
41	Norway Maple	Acer plantanoides	13	C	Poor	-	Conflict with proposed building	On property	REMOVE
42	Manitoba Maple	Acer negundo	18	I	Poor	-	Conflict with proposed building	On property	REMOVE
43	Black Walnut	Juglans nigra	86	D	Good	-	Conflict with proposed building	On property	REMOVE
44	Norway Maple	Acer plantanoides	28 [13, 14, 20]	C	Poor	Heavily shaded.	Conflict with proposed building	On property	REMOVE
45	White Mulberry	Morus alba	33	C	Fair	-	Conflict with proposed development	On property	REMOVE
46	Norway Maple	Acer plantanoides	36 [24, 26]	D	Fair	Poor form - tight crotch.	Conflict with proposed building	On property	REMOVE
47	Norway Spruce	Picea abies	39	D	Fair	-	Conflict with proposed building	On property	REMOVE
48	Siberian Elm	Ulmus pumila	44	C	Poor	Dead and broken limbs in canopy.	Conflict with proposed parking structure	Boundary	REMOVE
49	White Mulberry	Morus alba	24	I	Poor	South lean.	Conflict with proposed development	On property	REMOVE
50	White Mulberry	Morus alba	46 [29, 35]	C	Fair	Gummosis at base of trunk. Poor form.	Conflict with proposed development	On property	REMOVE
51	White Mulberry	Morus alba	41	C	Fair	Gummosis at base of trunk. Poor form.	Conflict with proposed development	On property	REMOVE
52	White Mulberry	Morus alba	18	C	Poor	South lean.	Conflict with proposed development	On property	REMOVE
53	Silver Maple	Acer saccharinum	96	D	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
54	Norway Spruce	Picea abies	55	C	Good	-	Conflict with proposed parking structure	Boundary	REMOVE
55	Norway Maple	Acer plantanoides	34	C	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
56	Norway Spruce	Picea abies	44	D	Fair	-	Conflict with proposed parking structure	Boundary	REMOVE
57	Norway Maple	Acer plantanoides	48 [22, 42]	C	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
58	Norway Spruce	Picea abies	46	C	Poor	-	Conflict with proposed parking structure	Boundary	REMOVE
59	Norway Maple	Acer plantanoides	33	C	Good	-	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
60	Norway Maple	Acer plantanoides	18	C	Fair	Poor form - significant lean.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
61	Norway Spruce	Picea abies	47	C	Fair	-	Conflict with proposed parking structure	Boundary	REMOVE
62	Norway Spruce	Picea abies	48	C	Fair	-	Conflict with proposed development	On property	REMOVE
63	Norway Spruce	Picea abies	26	I	Poor	-	Conflict with proposed parking structure	Boundary	REMOVE
64	Norway Maple	Acer plantanoides	40	C	Good	-	Conflict with proposed parking structure	Boundary	REMOVE
65	Norway Maple	Acer plantanoides	16 [10, 12]	I	Fair	Heavily shaded.	Underground parking structure to property line = grading within root zone, refer to Arborist Report	Neighbouring	SAVE
66	Eastern Hemlock	Tsuga canadensis	26	C	Good	-	Conflict with proposed parking structure	Boundary	REMOVE
67	Japanese Tree Lilac	Syringa reticulata	24	D	Good	Suckers at base of trunk.	Proposed sidewalks in area leading to front doors = grading within root zone, refer to Arborist Report	R.O.W.	SAVE

* 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)

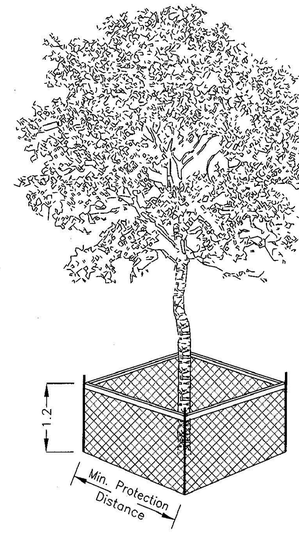


Table 1– Tree Protection Zones

Trunk Diameter (DBH)[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.

Tree Protection Fencing (City of Burlington Detail TP-1 SS12 - March 2011)

SCALE: NTS

1
L-2

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.

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NOTE:
Vegetation inventory undertaken by Nate Torenvliet, ISA Certified Arborist (ON-1782A) on August 27, 2020.

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STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATINO
OALA MEMBER

CLIENT
Infinity Development Group

MUNICIPALITY
City of Burlington

PROJECT
40-70 Plains Road East

MUNICIPAL FILE NUMBER

SHEET
Tree Protection Plan
L-3

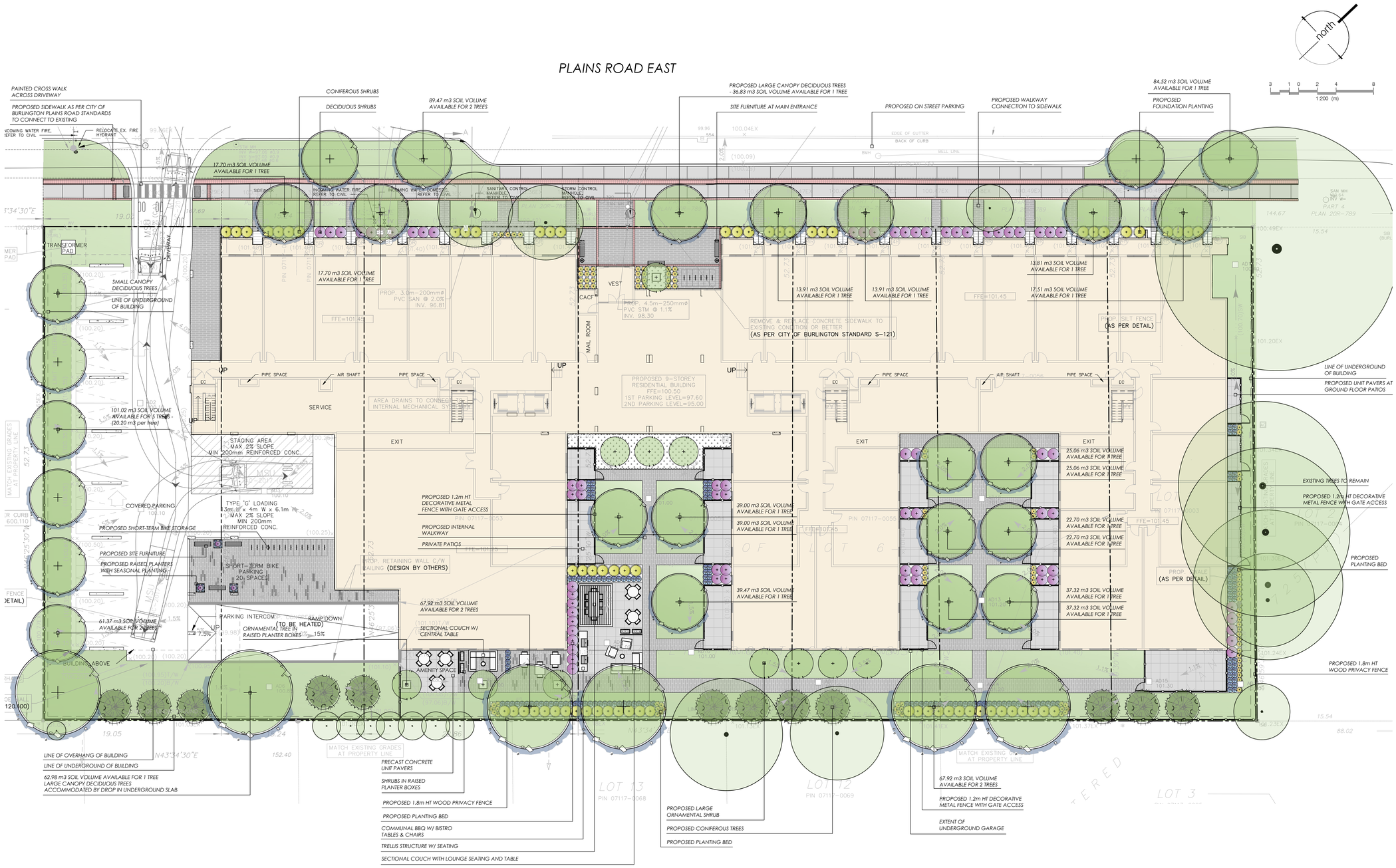
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project #: 20-146

PLAINS ROAD EAST



KEY MAP - N.T.S.



LEGEND

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

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MUNICIPALITY
City of Burlington

PROJECT
40-70 Plains Road East

MUNICIPAL FILE NUMBER

SHEET
Landscape Concept Plan
LC-1

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