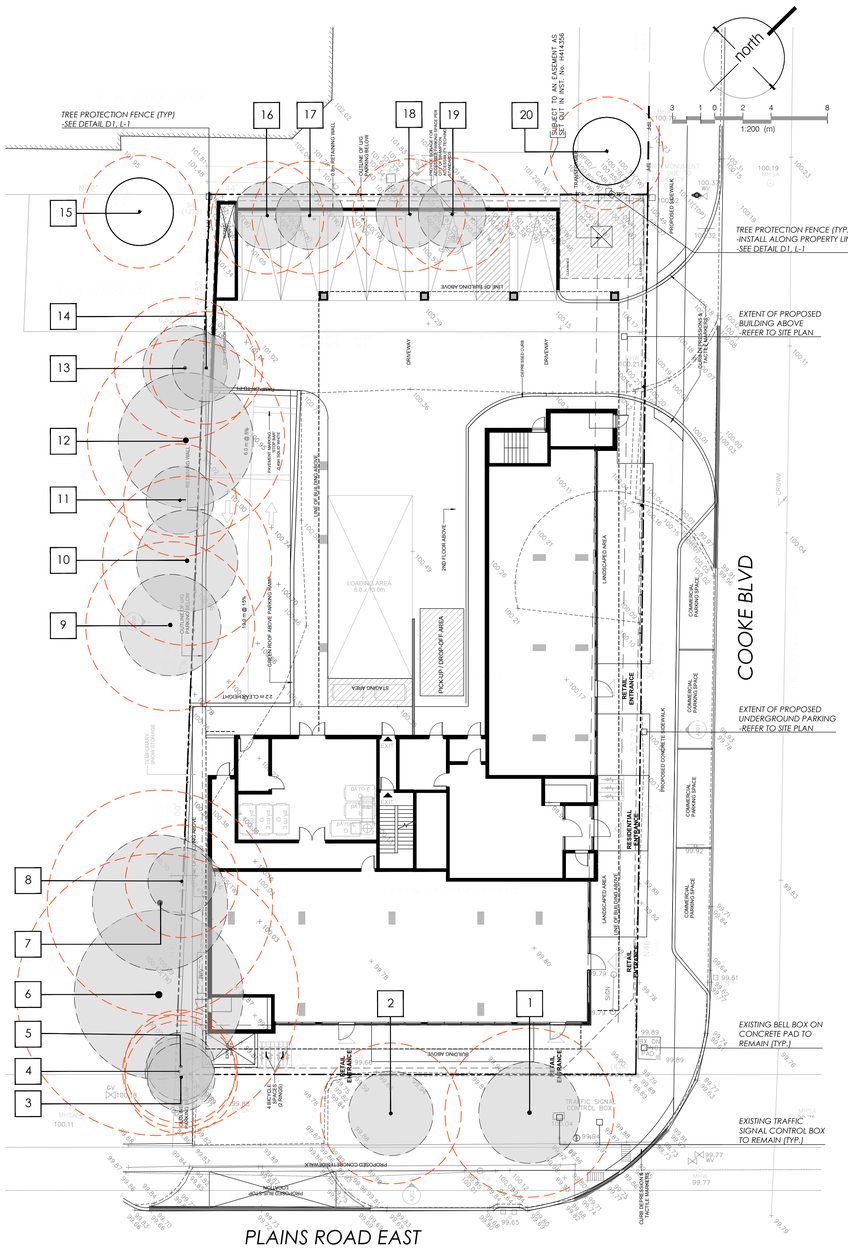
project #: 21-093



EXISTING VEGETATION IDENTIFICATION TABLE

TREE #	SPECIES (COMMON NAME)	SPECIES (BOTANICAL NAME)	DBH (cm)	STRUCTURAL (%)	HEALTH(%)	OVERALL CONDITION (%)	CONDITION **	CROWN CLASS	CROWN WIDTH (m)	mTPZ (m)	CRZ (m)	COMMENTS	POTENTIAL IMPACTS FROM CONSTRUCTION	OWNERSHIP	RECOMMENDATION
1	Little Leaf Linden	*Tilia cordata*	52	80%	90%	85%	GOOD	D	7	3.6	6.0	watersprouts (severe), epicormic branching, dead branches (minor), canopy dieback <10%	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE
2	Norway Maple	*Acer platanoides*	42	80%	90%	85%	GOOD	D	6	3.0	5.0	co-dominant leaders @1.8m, included bark at union, canopy dieback 10-20%, helead stem wound	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE
3	Tree-of-Heaven	*Ailanthus altissima*	8, 11, 10	80%	80%	80%	GOOD	C	3	2.4	4.0	asymmetrical crown	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE
4	Tree-of-Heaven	*Ailanthus altissima*	11	60%	80%	70%	GOOD	C	3	2.4	4.0	poor form	encrochment due to proposed paving and servicing	Public - Plains Rd E ROW	REMOVE
5	Tree-of-Heaven	*Ailanthus altissima*	10, 9	60%	80%	70%	GOOD	C	3	2.4	4.0	asymmetrical crown, co-dominant leaders @0.3m	encroachment due to proposed paving	Subject Site - 35 Plains Rd E	REMOVE
6	Paper Birch	*Betula papyrifera*	25, 25, 26, 24	40%	30%	35%	POOR	C	9	6.0	10.0	canopy dieback ~40%, helaed stem wound, included bark poor form	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
7	Austrian Pine	*Pinus nigra*	77	40%	40%	40%	POOR	C	12	4.8	8.0	co-dominant leaders @1.8m, included bark, woodpecker damage, Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
8	Manitoba Maple	*Acer negundo*	35	40%	40%	40%	POOR	C	10	2.4	4.0	broken branches, dead branches, canopy dieback ~20%	encroachment due to proposed underground parking structure and building footprint	Boundary - 15 & 35 Plains Road East	REMOVE
9	Austrian Pine	*Pinus nigra*	54	70%	40%	55%	FAIR	C	10	3.6	6.0	Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
10	Austrian Pine	*Pinus nigra*	56	70%	50%	60%	FAIR	C	12	3.6	6.0	co-dominant leaders @2.6m, Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
11	Austrian Pine	*Pinus nigra*	30	50%	30%	40%	POOR	C	8	2.4	4.0	grapevine competition in canopy, slight lean west, asymmetrical crown, canopy dieback 20%	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
12	Austrian Pine	*Pinus nigra*	40, 33	40%	35%	38%	POOR	C	7	4.8	8.0	co-dominant leaders @0.6m, included bark, Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
13	Austrian Pine	*Pinus nigra*	42	80%	50%	65%	GOOD	C	9	3.0	5.0	Oozing wounds, canopy dieback 20%, Diplodia tip blight	encroachment due to proposed underground parking structure and building footprint	Neighbouring - 15 Plains Rd E	REMOVE
14	Rock Elm	*Ulmus thomasii*	14	60%	70%	65%	GOOD	C	6	2.4	4.0	asymmetrical crown, conflict with existing chain link fence	encroachment due to proposed underground parking structure and building footprint	Boundary - 15 & 35 Plains Road East	REMOVE
15	Austrian Pine	*Pinus nigra*	39	70%	40%	55%	FAIR	C	8	2.4	4.0	Diplodia tip blight, co-dominant leaders @4m, asymmetrical crown canopy dieback 30%	none	Neighbouring - 15 Plains Rd E	SAVE
16	Siberian Elm	*Ulmus pumila*	18	60%	80%	70%	GOOD	C	5	2.4	4.0	poor branch structure and branch taper, included bark	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
17	Siberian Elm	*Ulmus pumila*	12, 21	60%	70%	65%	GOOD	C	5	2.4	4.0	co-dominant leaders@0.3m, included bark, asymmetrical crown, wet wound	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
18	Siberian Elm	*Ulmus pumila*	12	70%	70%	70%	GOOD	C	4	2.4	4.0	canopy dieback 20%	encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
19	Siberian Elm	*Ulmus pumila*	12	80%	80%	80%	GOOD	C	4	2.4	4.0		encroachment due to proposed surface parking	Subject Site - 35 Plains Rd E	REMOVE
20	Crimson King Norway Maple	*Acer platanoides 'Crimson King'*	24	80%	90%	85%	GOOD	C	5	2.4	4.0	healed stem wound, exposed surface roots, poor branch taper	minor encroachment due to proposed transformer	Neighbouring - 1026 Cooke Blvd	SAVE

CHART LEGEND/CODES

***DBH** = Diameter at Breast Height (cm)*

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

***mTPZ =** minimum Tree Protection Zone*

***CRZ =** Critical Root Zone*

*** 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)



Trees 10-12



Tree 20



Tree 1



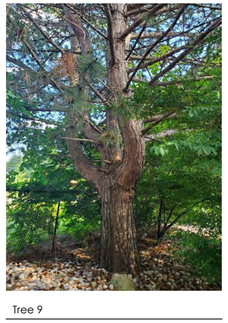
Tree 2 - healed stem wound



Trees 3-5



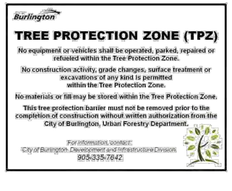
Tree 7



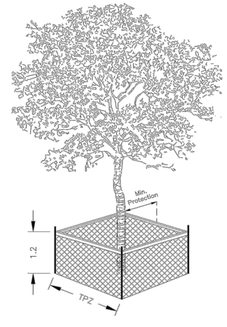
Tree 9



Tree 15



Tree Protection and Preservation
Specification No.: SS12A



Detail TP-1 – Tree Protection Detail.

Trunk Diameter (DBH) [2]	Minimum Tree Protection Zone (MTPZ) 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

NOTES:
[1] The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the drip line.
[2] Diameter at breast height (DBH) is the measurement of tree trunk taken at 1.4 metres above ground.
[3] Minimum Tree Protection Zone and Critical Root Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work and is subject to Section 6 of this specification.
[4] Where work is being performed beyond the Minimum Tree Protection Zone but within the Critical Root Zone the works are subject to Section 8 of this specification.

TREE PROTECTION BARRIER

1. The required barrier is a 1.2 metre (4 ft) high orange plastic web snow fencing on 2" x 4" frame. Where orange plastic web snow fencing creates a restriction to sightlines, page wire fencing with reflective tape can be used.
2. Tree protection barriers are to be erected prior to the commencement of any construction or grading activities on the site and are to remain in place throughout the entire duration of the project. The barriers shall be maintained erect and in good repair throughout the duration of construction operations with breaks and unsupported sections repaired immediately. Tree protection may be not be removed prior to the completion of construction without written authorization from the City Arborist.
3. All supports and bracing used to safely secure the barrier should be located outside the MTPZ. All supports and bracing should minimize damage to roots.
4. Where some fill or excavated material must be temporarily located near a MTPZ, a wooden barrier with silt fencing must be used to ensure no material enters the MTPZ.
5. No materials or fill may be stored within the MTPZ.
6. Equipment or vehicles shall not be operated, parked, repaired, or refueled within the MTPZ.
7. No construction activity, grade changes, surface treatment or excavations of any kind is permitted within the MTPZ without written authorization from the City Arborist.
8. A laminated Minimum Tree Protection Zone Sign (See Detail TP-3 – Minimum Tree Protection Zone Sign) must be attached to the side of the Tree Protection where it will be visible by persons entering the site. Minimum size must be 10"x14".

City of Burlington Tree Protection Barrier Detail & Signage

1
L-1

SCALE: NTS

TREE REMOVAL:

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

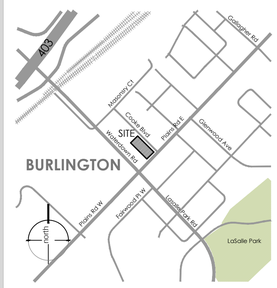
BOUNDARY TREES:

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.

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.*

KEY MAP - N.T.S.



LEGEND

- property line
- 2 — existing tree number (refer to chart)
- existing vegetation to remain
- existing vegetation to be removed
- 100.50 — existing elevations
- TPF — tree protection fence (with silt fence) - see detail D1, L-1
- critical root zone
- minimum tree protection zone

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on 2021-09-08.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2023-10-18	Issued for client review
2	2024-04-25	Issued for client submision

STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MMXO PATRIOR — OALA — MEMBER

CLIENT

MUNICIPALITY
City of Burlington

PROJECT
35 Plains Road East

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
www.adessodesigninc.ca

REVIT\Project Files\Projects\21-093\21-093_35 Plains Rd_Burlington-MZ_Central_Detailing2-24_Mac_LHOFOT_TPP
EAST.RVT5 (e) Thursday, May 9, 2024 4:54:58 AM PLOTTED BY:Thursday, May 9, 2024 4:30:44 AM