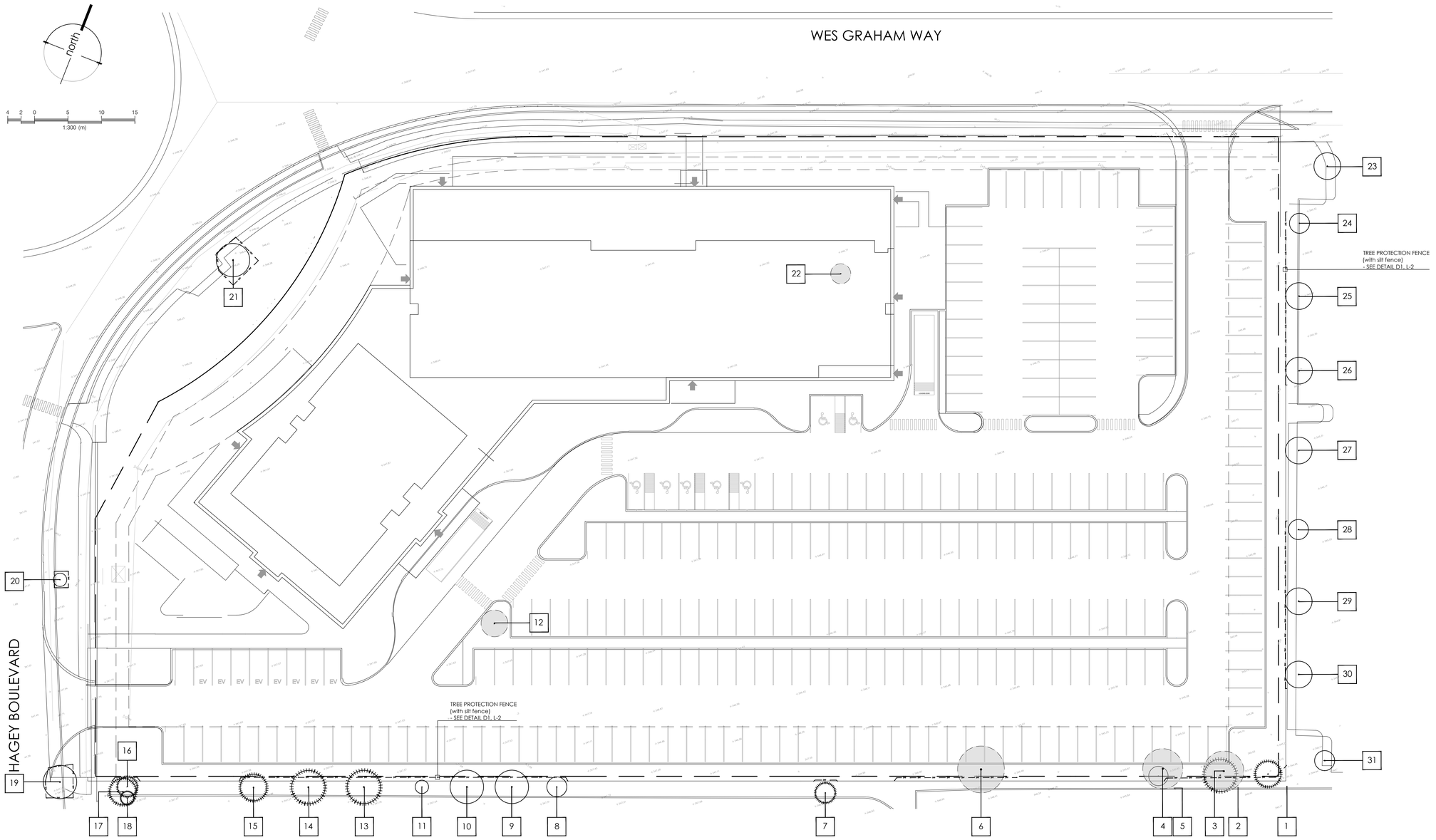
project #: 24-318





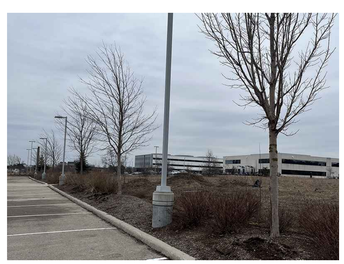
Tree #6



Tree #7



Trees #13-15



Trees #24 - 26

MINIMUM TREE PROTECTION ZONES:

TRUNK DIAMETER (DBH)	MINIMUM TREE PROTECTION ZONE (MTPZ)[1] DISTANCE REQUIRED
<10 cm	1.8m
11-40 cm	2.4m
41-50 cm	3.0m
51-60 cm	3.6m
61-70 cm	4.2m
71-80 cm	4.8m
81-90 cm	5.4m
91-100+ cm	6.0m

[1] MTPZ distance to be measured from outside edge of a tree towards the dripline

NOTE:
1.Any work within the driplines of a tree to be preserved, to be completed carefully by hand under supervision of a qualified tree professional. Any required root pruning to be completed by a qualified tree professional.

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 elevations
- tree protection fence (with silt fence) - see detail D1, L-2

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Carleigh Pope, ISA Certified Arborist (ON-2578A) on March 28 2025.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2025-04-10	Issued for 1st OPA ZBA Submission

STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATTUCCI
MEMBER

CLIENT

MUNICIPALITY
City of Waterloo

PROJECT
Hyatt Hotel &
Conference Centre
380 Hagey Boulevard

MUNICIPAL FILE NUMBER

SHEET
Vegetation
Management 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 File Path: D:\24-318 Waterloo Hyatt\01 Current Drawings\24-318_hyatt_LV_MEP_CENTRAL_R23_adessoV4.rvt Thursday, April 10, 2025 4:48:59 PM PLOTTED BY: Jonathan Lai Thursday, April 10, 2025 4:49:29 PM

project #: 24-318

EXISTING VEGETATION IDENTIFICATION TABLE

Tree #	Species (Common Name)	Species (Botanical Name)	DBH (cm)	Crown Class*	Condition**	Crown Width (m)	Comments	Potential Impacts from Construction	Ownership	Recommendation
1	White Spruce	*Picea abies*	13	D	G-F	4	dead/broken branches in canopy	minor encroachment due to proposed grading and parking lot	Neighbouring	SAVE
2	Colorado Spruce	*Picea pungens*	20	D	G	5	leaning south (minor)	minor encroachment due to proposed grading and parking lot	Neighbouring	SAVE
3	Russian Olive	*Elaeagnus angustifolia*	11,14,12	D	P-F	6	leaning EAST (severe), co-dominant leaders @ 0.3m, included bark, heavily pruned, poor form	direct conflict with proposed grading and parking	Subject Site	REMOVE
4	Russian Olive	*Elaeagnus angustifolia*	11,12	C	F	6	poor form, leaning east, co-dominant leaders @ 0.3m, healed stem wound @ base, dead/broken branches in canopy	direct conflict with proposed grading and parking	Subject Site	REMOVE
5	Eastern Hackberry	*Celtis occidentalis*	14	C	G	3	epicormic branching, dead/broken branches in canopy	minor encroachment due to proposed grading and parking lot	Neighbouring	SAVE
6	Russian Olive	*Elaeagnus angustifolia*	14,10,9	D	F-G	7	union @ base	direct conflict with proposed grading and parking	Subject Site	REMOVE
7	White Spruce	*Picea abies*	10	D	P-F	3	dead/broken branches in canopy (severe), poor form, missing leader, asymmetrical crown	none	Neighbouring	SAVE
8	Eastern Hackberry	*Celtis occidentalis*	10	D	G	3	dead/broken branches in canopy (minor)	minor encroachment due to proposed grading and parking lot	Neighbouring	SAVE
9	Red Oak	*Quercus rubra*	14	D	G	5	healed stem wound, suspected girdling root, asymmetrical crown	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
10	Basswood	*Tilia americana*	18	D	F	5	leaning south (minor), co-dominant leaders @ 2.5m, poor form rubbing branches, poor branch structure, water sprouts (minor)	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
11	Sugar Maple	*Acer saccharum*	8	D	F	2	bark peeling, dead/broken branches in canopy, canker on leader	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
12	Balsam Poplar	*Populus balsamifera*	19	D	G	4	dead/broken branches in canopy, Vagabond aphid	direct conflict with proposed parking lot and grading	Subject Site	REMOVE
13	White Spruce	*Picea abies*	15	D	F	5	dead/broken branches in canopy (moderate)	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
14	White Spruce	*Picea abies*	11	D	G	5	dead/broken branches in canopy (minor), poor branch structure	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
15	White Spruce	*Picea abies*	9	D	F-G	4	sparse canopy, asymmetrical crown, dead/broken branches in canopy, poor branch structure	moderate encroachment due to proposed grading and parking lot	Neighbouring	SAVE
16	Eastern Redcedar	*Juniperus virginiana*	14	C	G	3	asymmetrical crown, dead/broken branches in canopy	minor encroachment due to proposed grading and parking lot	Neighbouring	SAVE
17	Eastern Redcedar	*Juniperus virginiana*	10	C	G	4	asymmetrical crown, dead/broken branches in canopy	none	Neighbouring	SAVE
18	Eastern Redcedar	*Juniperus virginiana*	10	C	F	2	sparse canopy, asymmetrical crown	none	Neighbouring	SAVE
19	Thornless Honeylocust	*Gleditsia triacanthos var. inermis*	11	D	G	5	asymmetrical crown, epicormic branching (minor)	none	Public - ROW	SAVE
20	Canadian Serviceberry	*Amelanchier canadensis*	10	D	F	2	leaning east, canker @ union (2.5m), rubbing branches	none	Public - ROW	SAVE
21	Red Oak	*Quercus rubra*	18	D	F-G	5	dead/broken branches in canopy (minor), asymmetrical crown, black growth on dead twigs/wood	none	Public - ROW	SAVE
22	Russian Olive	*Elaeagnus angustifolia*	11,7,4	D	F-P	3	canker @ base, poor form, rubbing branches, union @ base	direct conflict with proposed building footprint	Subject Site	REMOVE
23	Thornless Honeylocust	*Gleditsia triacanthos var. inermis*	10	D	G	4	poor branch structure, damage @ base	none	Neighbouring	SAVE
24	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	12	D	F	3	sap ooze from stem, included bark, frost crack, poor branch structure	none	Neighbouring	SAVE
25	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	13	D	F	4	stem damage/wounds, included bark, frost crack	none	Neighbouring	SAVE
26	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	10	D	F	4	damage on stem, poor branch structure, rubbing branches	none	Neighbouring	SAVE
27	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	11	D	F	4	asymmetrical crown, poor branch structure, wet branch wound	none	Neighbouring	SAVE
28	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	10	D	F	3	asymmetrical crown, bark peeling (minor)	none	Neighbouring	SAVE
29	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	10	D	F-G	4	epicormic branching (minor), mechanical damage on stem	none	Neighbouring	SAVE
30	Autumn Blaze Maple	*Acer x freemanii 'Jefersred'*	11	D	F-G	4	poor branch structure, poor branch taper, included bark	none	Neighbouring	SAVE
31	Littleleaf Linden	*Tilia cordata*	11	D	F	3	poor branch structure, rubbing branches, included bark, epicormic branching	none	Neighbouring	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 damaged 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:
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.

MIGRATORY BIRDS AND NESTS:

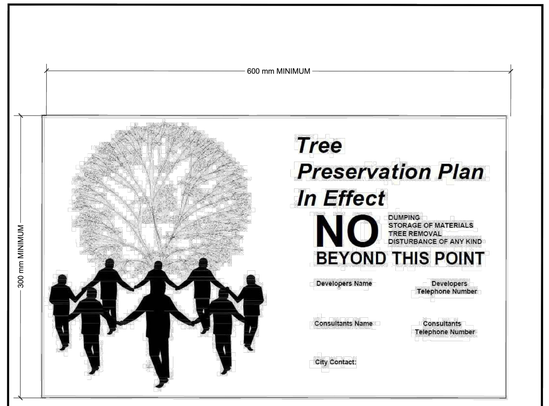
1. The Owner and Contractor must be aware of the Migratory Birds Convention Act, 1994 - specifically:
   - No tree removal or construction activity shall contravene the Act.
   - Construction activities with the potential to harm migratory birds or their nest should be restricted from March 15 to August 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.

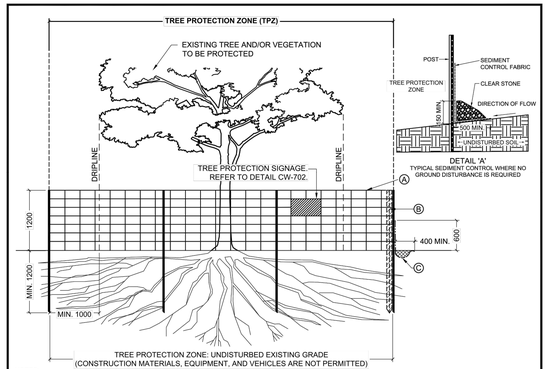


NOTES:

1. SIGN TO BE MOUNTED ON GATOR BOARD.
2. SIGN TO BE PLACED A MAXIMUM OF 30 m O.C. ALONG FENCE AND SECURED WITH OUTDOOR PLASTIC LOCKING TIE-WRAPS.
3. AT LEAST ONE SIGN SHALL BE INSTALLED AT EACH SIDE OF THE TREE PROTECTION ZONE.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

STANDARD DRAWING	REV 1	MAY 2023
TREE PROTECTION ZONE SIGNAGE	THE CITY OF Waterloo	CW-702



NOTES:

A. 1200 mm HIGH PAIGE WIRE FARM FENCE SECURED TO STEEL T-BARS AT MIN. 3000 mm O.C.. FENCING MUST BE STRETCHED TO ACHIEVE TENSION.

B. FOR SUBDIVISIONS AND ANY OTHER LONG DURATION PROJECTS (MORE THAN 1 YEAR), FENCING TO INCLUDE 2.44 m HIGH, 150 mm CEDAR POSTS LOCATED AT 21 m O.C. AND AT ALL CHANGES IN DIRECTION WHERE REQUIRED BY APPROVED VEGETATION MANAGEMENT PLAN.

C. EROSION/SEDIMENT CONTROLS SHALL BE AFFIXED DIRECTLY TO TREE PROTECTION FENCING WHERE LOCATIONS COINCIDE.REFER TO EROSION CONTROL PLANS AND DETAILS WHERE APPLICABLE. WHERE NO ADJACENT GRADING/ GROUND DISTURBANCE WORKS ARE REQUIRED ON DEVELOPMENT SIDE, EROSION CONTROL MEASURES SHALL NOT BE KEYED. REFER TO DETAIL 'A'.

GENERAL:

1. ATTACHMENT OF FENCE TO TREES WILL NOT BE PERMITTED.
2. IF TREE ROOTS ARE EXPOSED TO AIR, ENSURE ROOTS ARE WATERED UNTIL THEY CAN BE COVERED AGAIN. ANY EXPOSED ROOTS TO BE REMOVED SHALL BE HAND PRUNED USING PROPER ARBORICULTURAL PRACTICES.
3. CONTRACTOR WILL ONLY ENTER / WORK WITHIN THE TREE PROTECTION ZONE (TPZ) WHERE APPROVED BY THE CITY OF WATERLOO.
4. FENCING TO BE INSPECTED ON A REGULAR BASIS AND MAINTAINED BY CONTRACTOR.
5. TREE PROTECTION FENCING SHALL BE INSTALLED PER THE LOCATIONS SHOWN ON THE APPROVED VEGETATION MANAGEMENT PLAN. ONCE INSTALLED, A SITE INSPECTION WITH A REPRESENTATIVE FROM THE CITY'S ENGINEERING SERVICES SHALL BE SCHEDULED FOR APPROVALS PRIOR TO ANY WORK COMMENCING ON SITE.
6. TREE PROTECTION FENCE WILL REMAIN INSTALLED FOR THE DURATION OF ALL CONSTRUCTION WORKS.

TABLE 1.0:

MINIMUM TREE PROTECTION ZONE DETERMINATION

TRUNK DIAMETER (DBH AT 1.4m)	MINIMUM PROTECTION DISTANCES REQUIRED
<10 cm	1.8 m
11 - 40 cm	2.4 m
41 - 50 cm	3.0 m
51 - 60 cm	3.6 m
61 - 70 cm	4.2 m
71 - 80 cm	4.8 m
81 - 90 cm	5.4 m
91 - 100+ cm	6.0 m

NOTE:
MINIMUM TREE PROTECTION ZONES (TPZ) SHALL ONLY BE USED WHERE SPACE IS LIMITED AND WHERE APPROVED BY THE CITY OF WATERLOO.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

STANDARD DRAWING	REV 1	MAY 2023
TREE PROTECTION FENCING	THE CITY OF Waterloo	CW-701

City of Waterloo Tree Protection Fencing and Signage

N.T.S.

1
L-2

NOT FOR CONSTRUCTION
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NOTE:
Vegetation inventory undertaken by XXX, ISA Certified Arborist (ON-XXXXX) on DATE.

REVISIONS/ SUBMISSIONS

#	DATE	DESCRIPTION
1	2025-04-10	Issued for 1st OPA ZBA Submission

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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATRIQUIN
OALA
MEMBER

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MUNICIPALITY
City of Waterloo

PROJECT
Hyatt Hotel &
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380 Hagey Boulevard

MUNICIPAL FILE NUMBER

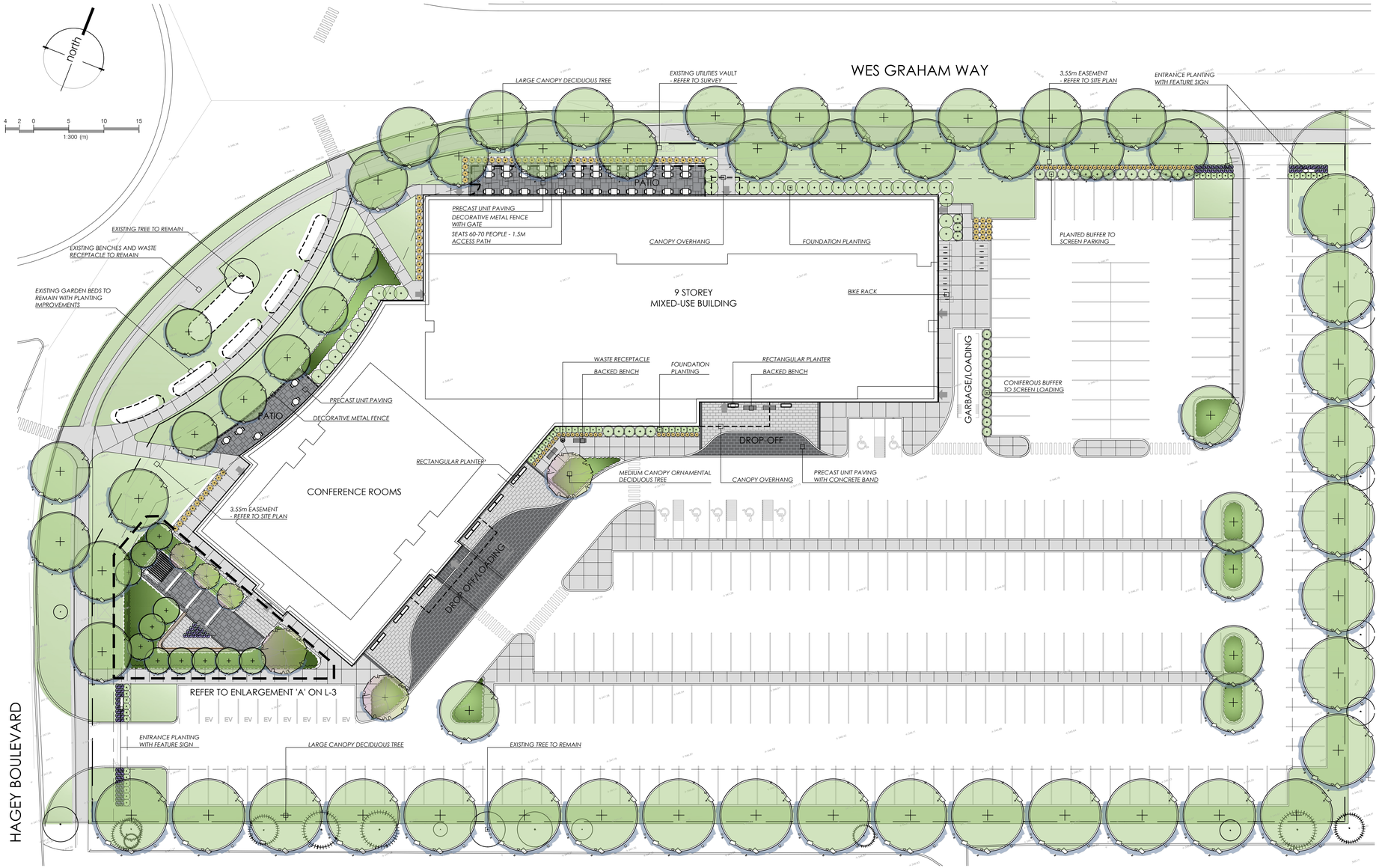
SHEET
Vegetation Management Plan
L-2

adesso design inc.
landscape architecture

69 John Street South, Suite 250
Hamilton, ON L8N 2B9
t. 905.526.8876
www.adessodesigninc.ca

PLOTTED: Plot Date/Time: 2025-04-08, Window.pmp4161, Cornell, Drawing: 24-318.dwg, Layout: L-2 TREE PROTECTION PLAN
LAST SAVED BY: Stefanie M. Thursday, April 10, 2025 4:48:39 PM
PLOTTED BY: Stefanie M. Thursday, April 10, 2025 4:48:39 PM

project #: 24-318



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 0:1 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.

TREE COMPENSATION CHART

PRIVATE TREES >10cm DBH TO BE REMOVED:	5
MUNICIPAL TREES TO BE REMOVED*:	0
REQUIRED COMPENSATION TREES (1:1)	5
FUTURE STREET TREES:	11
PROPOSED TREES (SEE LANDSCAPE PLAN)	66



ENLARGEMENT 'A' - Outdoor Amenity

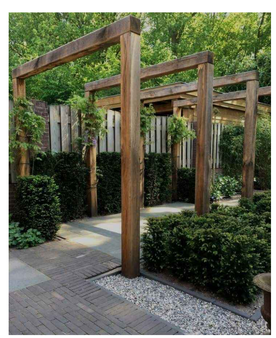
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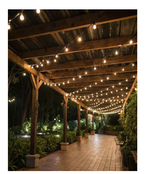
PRECEDENT IMAGERY


CURVED BENCH


CURVED BENCH BACK OPTION


METAL TRELLIS WALKWAY FEATURE


WOODEN TRELLIS WALKWAY FEATURE



TRELLIS LIGHTING OPTIONS

KEY MAP - N.T.S.



LEGEND

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

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#	DATE	DESCRIPTION
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ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MARIO PATRIZIO — MEMBER

CLIENT

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SHEET
Landscape Plan

L-3

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DEEP/Design Plus/Projects 2024/24-318 Waterloo Hyatt/01 Current Drawings/24-318_Hyatt_LAYOUT1.dwg Layout: LAYOUT1 Last saved by: Shelbie Hill Thursday, April 10, 2025 4:48:39 PM PLOTTED: By: Shelbie Hill Thursday, April 10, 2025 4:09:44 PM