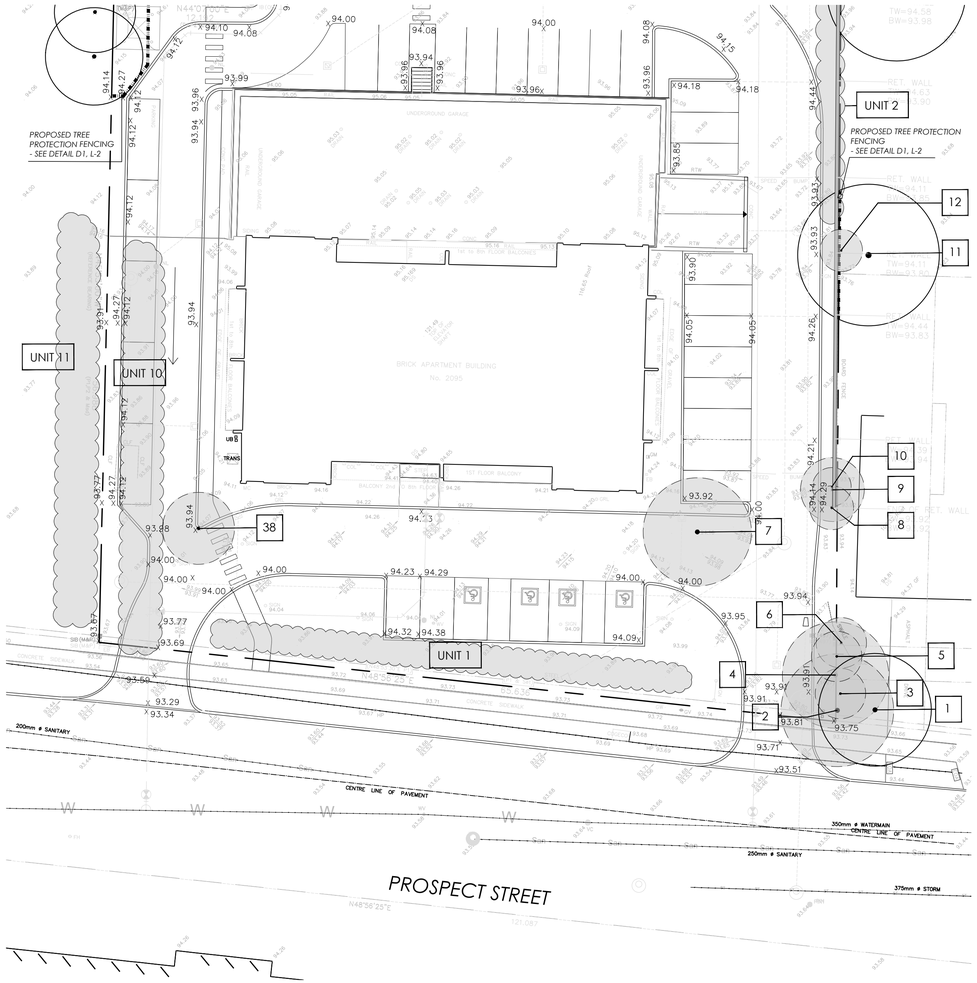
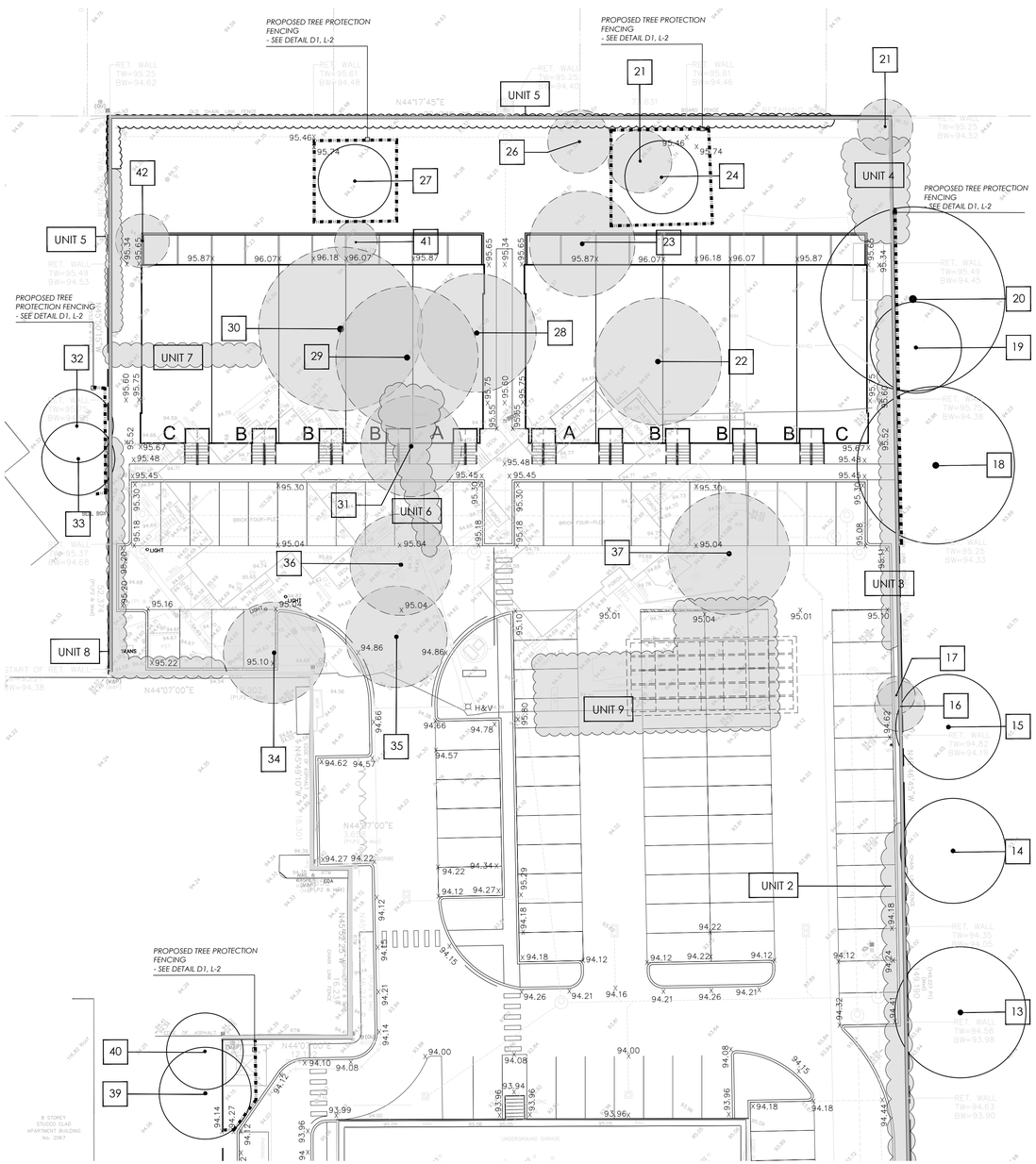
project #: 17-153




Tree Protection Plan (South)




Tree Protection Plan (North)

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
- 95.13 — existing elevations
- 95.10 — proposed grade - refer to engineering
- proposed servicing - refer to engineering
- tree protection fencing - see detail D1, L-2

NOT FOR CONSTRUCTION
ISSUED FOR REVIEW & COMMENTS ONLY

NOTE:
Vegetation inventory undertaken by Nate Torenvliet, ISA Certified Arborist (ON-1782A) on 2017-08-09.

REVISIONS/ SUBMISSIONS

| # | DATE | DESCRIPTION |
|---|---|---|
| 1 | 2017-08-16 | Issued for review |
| 2 | 2017-12-08 | Issued for submission |

STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — MARIO PANTALONI — MEMBER

CLIENT
Welwyn Interests Inc.

MUNICIPALITY
City of Burlington

PROJECT
Proposed 3 Storey Stacked Townhouses
2095 Prospect Street

MUNICIPAL FILE NUMBER

SHEET
Vegetation Management Plan

L-1

adesso design inc.
landscape architecture

218 Locke Street South, 2nd Floor
Hamilton, ON L8P 4B4
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PLOT Z:\Proj\ Work Projects\ 2017\17-153 2095 Prospect Street Burlington\12 Cons Drawings\17-153L.dwg, LAYOUT1, Veg man
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project #: 17-153

## EXISTING VEGETATION IDENTIFICATION TABLE

| TREE/UNIT NO. | SPECIES (COMMON NAME) | SPECIES (BOTANICAL NAME) | DBH (cm) | CANOPY DIAMETER (m) | CROWN CLASS* | CONDITION** | VEGETATION VALUE & PHYSICAL CONSTRAINTS | POTENTIAL IMPACTS FROM CONSTRUCTION | OWNERSHIP | RECOMMENDATION |
|---|---|---|---|---|---|---|---|---|---|---|
| UNIT 1 | Colorado Spruce | Picea pungens | 30-50 | 8 avg. | C | Fair | | Grading within root zone; conflicts with proposed curb and grading | Private | REMOVE |
| UNIT 2 | White Spruce | Picea glauca | 10-30 | 5 avg. | C | Fair-Poor | | Grading within root zone; conflicts with proposed curb and grading | Private | REMOVE |
| UNIT 3 | White Spruce | Picea glauca | 10-20 | 5 avg. | C | Fair-Poor | | Grading within root zone; conflicts with proposed building and grading | Private | REMOVE |
| UNIT 4 | White Mulberry | Morus alba | 10-30 | 8 avg. | C | Fair | Low value species; invasive to Ontario | | Private | REMOVE |
| UNIT 5 | White Cedar/ Norway Maple | Thuja sp., Picea sp. | 5-10 | 4 avg. | C/S | Fair-Poor | Provides screening from adjacent properties | Grading within root zone of some areas; conflicts with proposed building | Private | PARTIAL REMOVAL - REFER TO PLAN |
| UNIT 6 | White Cedar | Thuja occidentalis | 5-30 | 5 avg. | C | Fair-Poor | | Conflicts with proposed building | Private | REMOVE |
| UNIT 7 | White Spruce | Picea glauca | 10-30 | 8 avg. | C | Fair | | Conflicts with proposed building | Private | REMOVE |
| UNIT 8 | White Cedar/ Norway Maple | Thuja sp., Picea sp. | 10-30 | 5 avg. | C | Fair-Poor | Low value species | Grading within root zone; conflicts with proposed parking lot | Private | REMOVE |
| UNIT 9 | Colorado Spruce/ White Spruce/ White Cedar | Picea sp., Thuja sp. | 10-40 | 8 avg. | C | Good-Fair | | Conflicts with proposed curb and parking lot | Private | REMOVE |
| UNIT 10 | Colorado Spruce | Picea pungens | 20-30 | 6 avg. | C | Good-Fair | | Conflicts with proposed cub, roadway and parking lot | Private | REMOVE |
| UNIT 11 | Black Pine | Pinus nigra | 35-40 | 8 avg. | C | Good-Fair | | Neighbouring property | Private | SAVE |
| 001 | Siberian Elm | Ulmus pumila | 50 | 10 | D | Fair | | Neighbouring property | Public | SAVE |
| 002 | Manitoba Maple | Acer negundo | multi | 8 | S | Fair | Low value species | Grading within root zone; conflicts with proposed curb | Public | REMOVE |
| 003 | Black Walnut | Juglans nigra | 20 | 6 | C | Fair | | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 004 | Black Walnut | Juglans nigra | 2x20 | 10 | C | Fair | | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 005 | Manitoba Maple | Acer negundo | 20 | 8 | S | Fair | Low value species | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 006 | Manitoba Maple | Acer negundo | 2x15 | 6 | S | Fair | Low value species | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 007 | Colorado Spruce | Picea pungens | 40 | 4 | D | Fair | | Conflicts with proposed roadway | Private | REMOVE |
| 008 | White Mulberry | Morus Alba | 15 | 5 | C | Fair | Low value species; invasive to Ontario | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 009 | Manitoba Maple | Acer negundo | 25 | 5 | C | Fair | Low value species | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 010 | Sweet Cherry | Prunus avium | 15 | 4 | C | Fair | | Grading within root zone; conflicts with proposed curb | Private | REMOVE |
| 011 | Catalpa | Catalpa sp. | 55 | 14 | S | Fair | | Neighbouring property | Private | SAVE |
| 012 | Manitoba Maple | Acer negundo | 15 | 6 | S | Fair | | Neighbouring property | Private | REMOVE - WRITTEN APPROVAL FROM NEIGHBOURING PROPERTY MUST BE OBTAINED PRIOR TO REMOVAL |
| 013 | Red Maple | Acer rubrum | 55 | 12 | C | Good | | Neighbouring property | Private | SAVE |
| 014 | Norway Maple | Acer platanoides | 40 | 10 | C | Good | | Neighbouring property | Private | SAVE |
| 015 | Norway Maple | Acer platanoides | 40 | 10 | C | Good | | Neighbouring property | Private | SAVE |
| 016 | White Mulberry | Morus alba | 20 | 6 | C | Fair | Low value species; invasive to Ontario | Grading within root zone; conflicts with proposed curb and parking | Private | REMOVE |
| 017 | White Mulberry | Morus alba | 15 | 5 | C | Fair | Low value species; invasive to Ontario | Grading within root zone; conflicts with proposed curb and parking | Private | REMOVE |
| 018 | Red Maple | Acer rubrum | 60 | 14 | D | Good | | Neighbouring property | Private | SAVE |
| 019 | Red Maple | Acer rubrum | 35 | 10 | C | Good | | Neighbouring property | Private | SAVE |
| 020 | Red Maple | Acer rubrum | 70 | 14 | C | Good | | Neighbouring property | Private | SAVE |
| 021 | Manitoba Maple | Acer negundo | 25 | 5 | D | Fair | Low value species | | Private | REMOVE |
| 022 | Norway Spruce | Picea abies | 50 | 14 | D | Fair | | Conflicts with proposed building | Private | REMOVE |
| 023 | Sweet Cherry | Prunus avium | 40 | 10 | D | Fair | | Conflicts with proposed building | Private | REMOVE |
| 024 | Scots Pine | Pinus sylvestris | 30 | 8 | C | Fair | | | Private | SAVE |
| 025 | White Mulberry | Morus alba | multi | 8 | C | Fair | Low value species; invasive to Ontario | | Private | REMOVE |
| 026 | White Mulberry | Morus alba | 25 | 8 | C | Poor | Low value species; scar and bleeding from trunk; invasive to Ontario | | Private | REMOVE |
| 027 | Scots Pine | Pinus sylvestris | 30 | 8 | D | Fair | | | Private | SAVE |
| 028 | Norway Spruce | Picea abies | 50 | 10 | C | Good | | Conflicts with proposed building | Private | REMOVE |
| 029 | Black Walnut | Juglans nigra | 55 | 12 | C | Good | | Conflicts with proposed building | Private | REMOVE |
| 030 | Norway Spruce | Picea abies | 60 | 14 | C | Good | | Conflicts with proposed building | Private | REMOVE |
| 031 | Norway Spruce | Picea abies | 40 | 10 | C | Fair | | Conflicts with proposed building | Private | REMOVE |
| 032 | Crabapple | Malus sp. | 30 | 8 | C | Fair | | Neighbouring property | Private | SAVE |
| 033 | Crabapple | Malus sp. | 25 | 8 | C | Fair | | Neighbouring property | Private | SAVE |
| 034 | Colorado Spruce | Picea pungens | 40 | 8 | D | Good | | Conflicts with proposed parking lot | Private | REMOVE |
| 035 | Norway Spruce | Picea abies | 40 | 10 | C | Good | | Conflicts with proposed parking lot | Private | REMOVE |
| 036 | Norway Spruce | Picea abies | 40 | 10 | C | Good | | Conflicts with proposed parking lot | Private | REMOVE |
| 037 | Colorado Spruce | Picea pungens | 45 | 7 | D | Good | | Conflicts with proposed parking lot | Private | REMOVE |
| 038 | Norway Maple | Acer platanoides | 25 | 10 | D | Good | Low value species | Conflicts with proposed roadway | Private | REMOVE |
| 039 | Black Pine | Pinus nigra | 35 | 8 | C | Good | | Neighbouring property | Private | SAVE |
| 040 | Black Pine | Pinus nigra | 30 | 8 | C | Fair | | Neighbouring property | Private | SAVE |
| 041 | N/A | N/A | N/A | N/A | N/A | Dead | N/A | N/A | Private | REMOVE |
| 042 | Crabapple | Malus sp. | 20 | 7 | C | Good | | Conflicts with proposed private patios | Private | REMOVE |

** 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)*

### 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.*

### 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.*
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. *City of Hamilton Urban Forester to be contacted and a site visit to be coordinated between the City of Hamilton, the Developer and the qualified arborist performing tree service prior to any alteration of municipal trees.*
11. *A copy of the approved and signed Vegetation Management Plan will be on site for the duration of construction and available upon request from the City of Hamilton Forestry & Horticulture representative.*
12. *This detail does not represent any particular tree species.*

**Tree Protection and Preservation**
**Specification No.: SS12**

**Detail TP-1 – Tree Protection Detail**

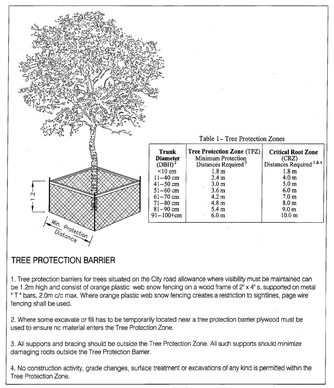



Table 1– Tree Protection Zones

| Trunk Diameter (DBH@ 1.37 m) | Tree Protection Zone (TPZ) Minimum Protective Distance required | Critical Root Zone (CRZ) Distance Required [1&4] |
|---|---|---|
| <10 cm | 1.8 m | 3.0 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.

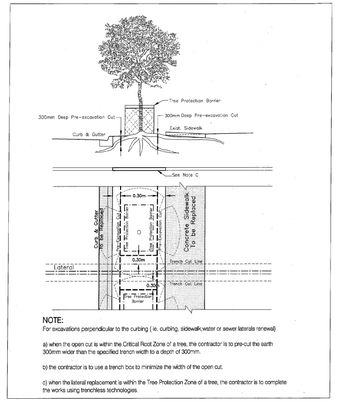
3. All supports and bracing should be outside the Tree Protection Zone. All such supports should minimize damaging roots outside the Tree Protection Barrier.

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



**Tree Protection and Preservation**
**Specification No.: SS12**

**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.



Tree Protection Fencing (with silt fence)

SCALE: NTS

D
1

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NOTE:
Vegetation inventory undertaken by Nate Torenvliet, ISA Certified Arborist (ON-1782A) on 2017-08-09.

REVISIONS/ SUBMISSIONS

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|---|---|---|
| 1 | 2017-08-16 | Issued for review |
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STAMP

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
MARIO PATRUNO
OALA MEMBER

CLIENT
Welwyn Interests Inc.

MUNICIPALITY
City of Burlington

PROJECT
Proposed 3 Storey Stacked Townhouses
2095 Prospect Street

MUNICIPAL FILE NUMBER

SHEET
Vegetation Management Plan

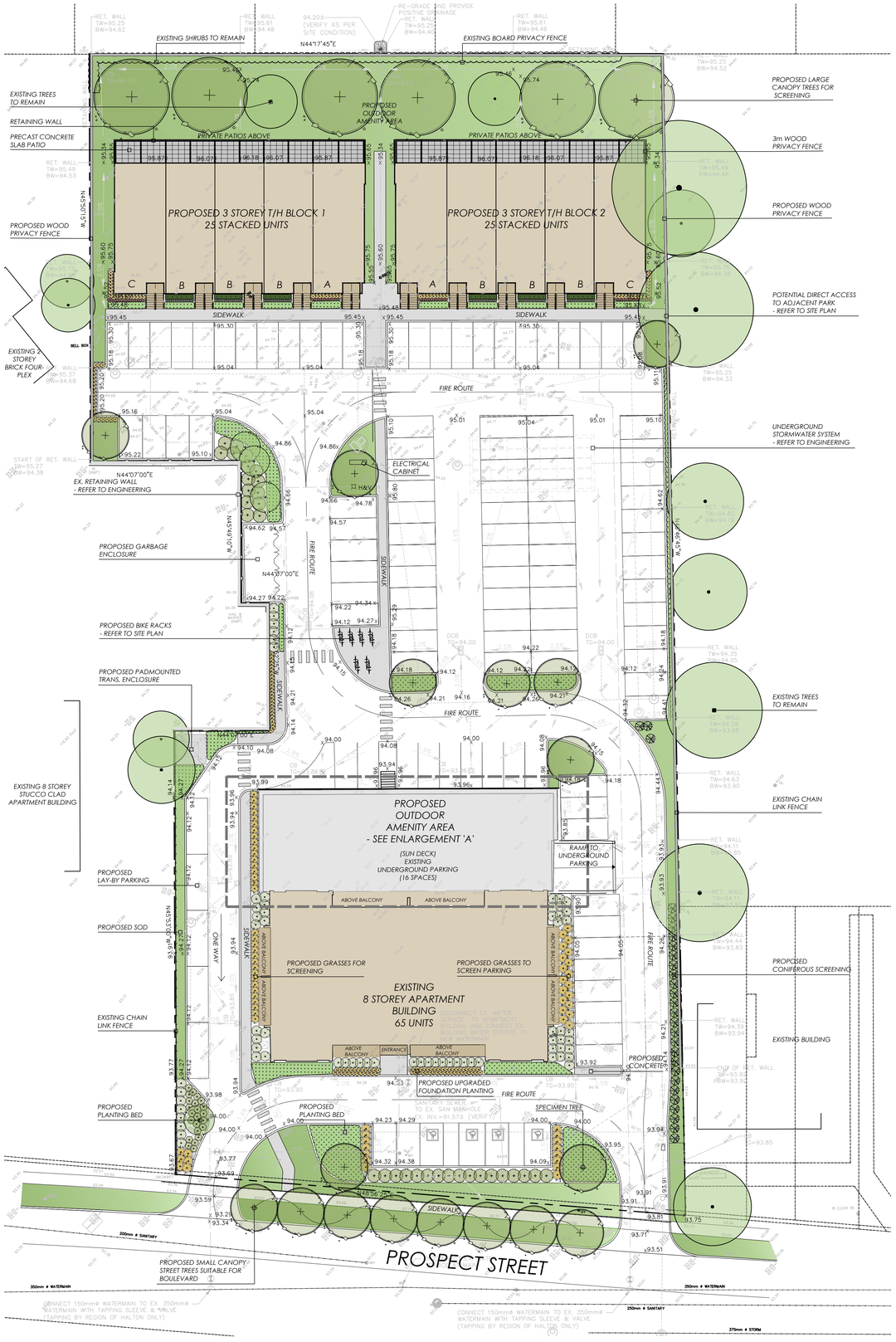
L-2

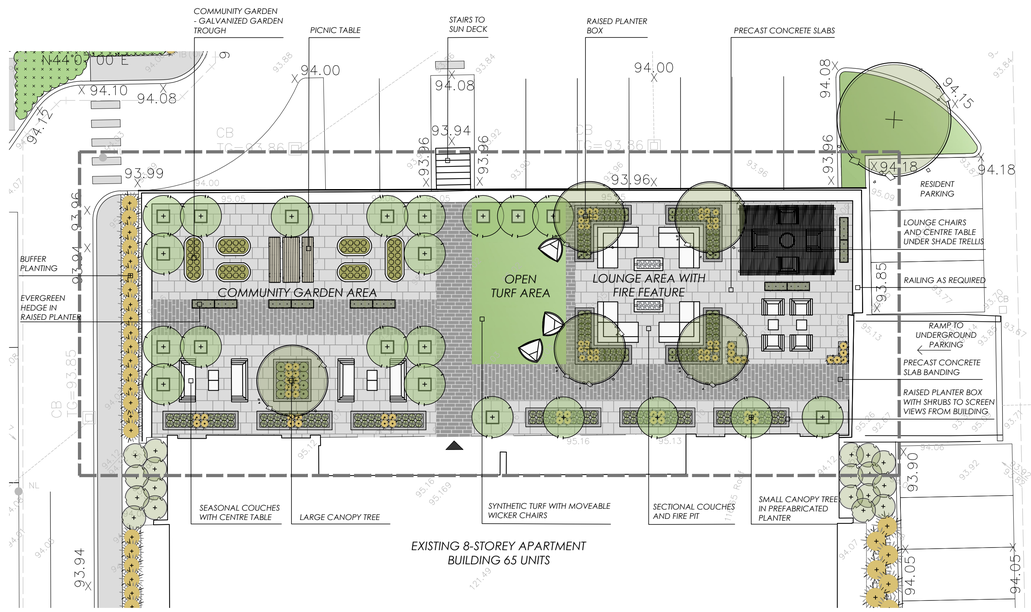
adesso design inc.
landscape architecture

218 Locke Street South, 2nd Floor
Hamilton, ON L8P 4B4
t. 905.526.8876
www.adessodesigninc.ca

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project #: 17-153




# Concept Images



PRECAST CONCRETE GAS FIRE PIT



GALVANIZED GARDEN TROUGH



LARGE SQUARE BLACK PLANTERS



SECTIONAL LOUNGE FURNITURE



MOVEABLE WICKER CHAIRS

Enlargement 'A'

SCALE 1:150

KEY MAP - N.T.S.




LEGEND

- property line
- existing tree
- proposed deciduous tree
- proposed shrub
- proposed perennial
- 94.78 existing grade - refer to engineering
- 95.10 proposed grade - refer to engineering
- min. 150mm topsoil, fine grade & sod
- C.I.P. concrete
- precast concrete unit pavers
- proposed wooden privacy fence
- existing chain link fence
- existing board privacy fence
- proposed servicing - refer to engineering
- proposed fire hydrant - refer to engineering
- proposed manhole - refer to engineering

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OALA
MEMBER

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City of Burlington

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2095 Prospect Street

MUNICIPAL FILE NUMBER

SHEET
Landscape Concept Plan
L-3

adesso design inc.
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