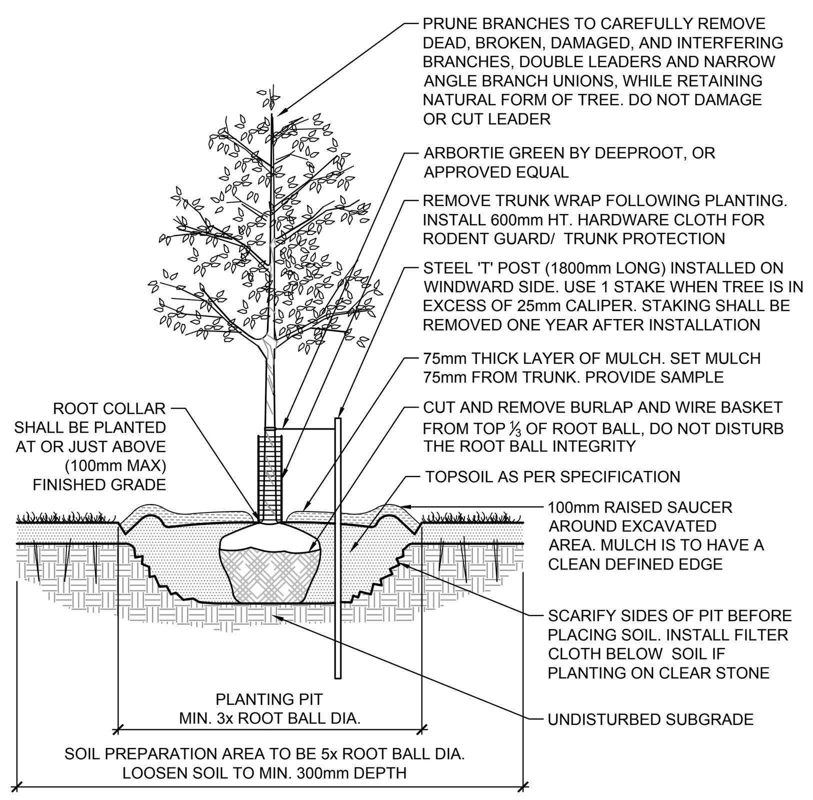
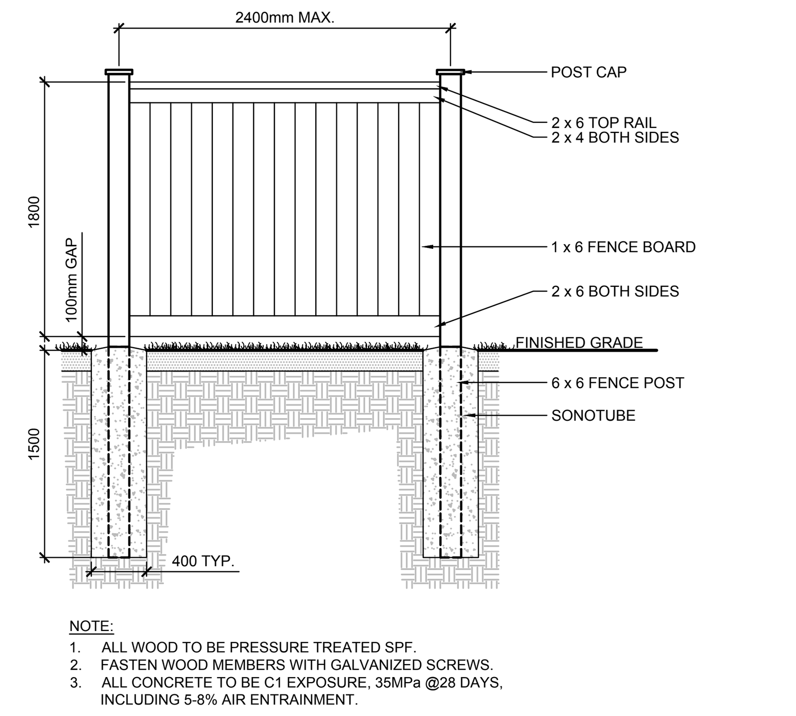
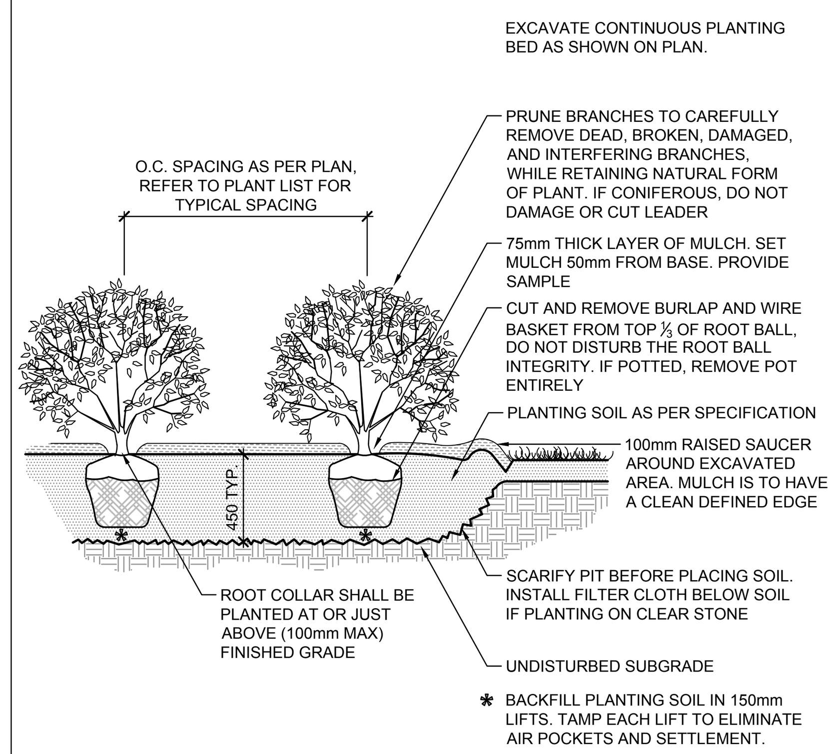


STANDARD DECIDUOUS TREE PLANTING — D1

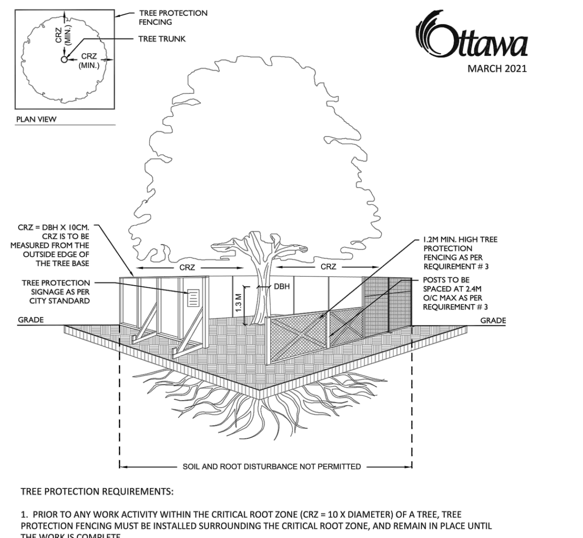


NOTE:
1. ALL WOOD TO BE PRESSURE TREATED SPF.
2. FASTEN WOOD MEMBERS WITH GALVANIZED SCREWS.
3. ALL CONCRETE TO BE C1 EXPOSURE, 35MPa @28 DAYS, INCLUDING 5-8% AIR ENTRAINMENT.

WOOD SCREEN FENCE — D4



SHRUB AND PERENNIAL PLANTING — D2



TREE PROTECTION REQUIREMENTS:

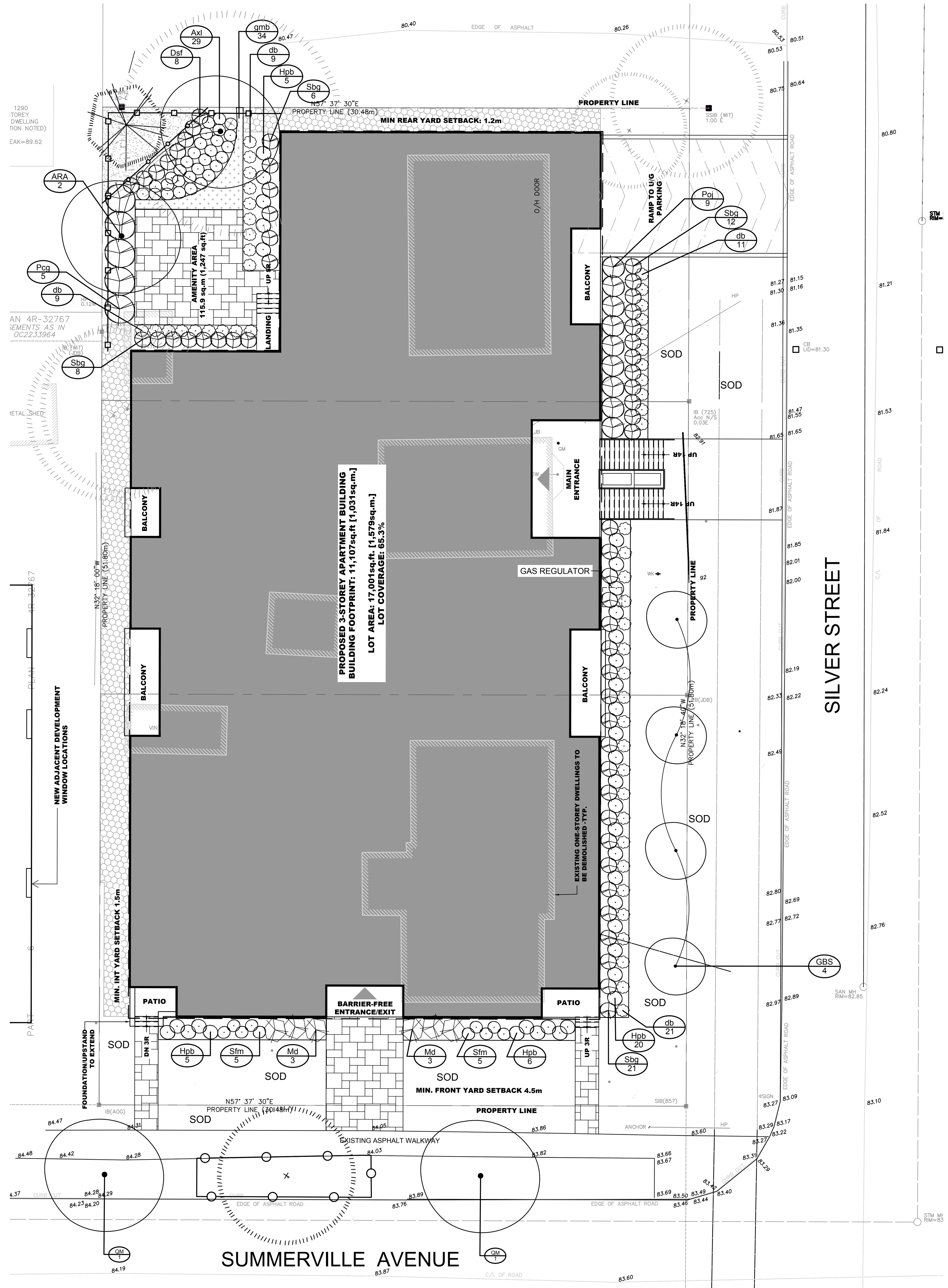
1. PRIOR TO ANY WORK ACTIVITY WITHIN THE CRITICAL ROOT ZONE (CRZ = 10 X DIAMETER) OF A TREE, TREE PROTECTION FENCING MUST BE INSTALLED SURROUNDING THE CRITICAL ROOT ZONE, AND REMAIN IN PLACE UNTIL THE WORK IS COMPLETE.
2. UNLESS PLANS ARE APPROVED BY CITY FORESTRY STAFF, FOR WORK WITHIN THE CRZ:
-DO NOT PLACE ANY MATERIAL OR EQUIPMENT - INCLUDING OUTHOUSES;
-DO NOT ATTACH ANY SIGNS, NOTICES OR POSTERS TO ANY TREE;
-DO NOT RAISE OR LOWER THE EXISTING GRADE;
-TUNNEL OR BORE WHEN DIGGING;
-DO NOT DAMAGE THE ROOT SYSTEM, TRUNK, OR BRANCHES OR ANY TREE;
-ENSURE THAT EXHAUST FUMES FROM ALL EQUIPMENT ARE NOT DIRECTED TOWARD ANY TREE CANOPY.
-DO NOT EXTEND HARD SURFACE OR SIGNIFICANTLY CHANGE LANDSCAPING
3. TREE PROTECTION FENCING MUST BE AT LEAST 1.2M IN HEIGHT, AND CONSTRUCTED OF RIGID OR FRAMED MATERIALS (E.G. MODULOC - STEEL, PLYWOOD HOARDING, OR SNOW FENCE ON A 2"X4" WOOD FRAME) WITH POSTS 2.4M APART, SUCH THAT THE FENCE LOCATION CANNOT BE ALTERED. ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMISE DAMAGE TO EXISTING ROOTS.(SEE DETAIL)
4. THE LOCATION OF THE TREE PROTECTION FENCING MUST BE DETERMINED BY AN ARBORIST AND DETAILED ON ANY ASSOCIATED PLANS FOR THE SITE (E.G. TREE CONSERVATION REPORT, TREE INFORMATION REPORT, ETC). THE PLAN AND CONSTRUCTED FENCING MUST BE APPROVED BY CITY FORESTRY STAFF PRIOR TO THE COMMENCEMENT OF WORK.
5. IF THE FENCED TREE PROTECTION AREA MUST BE REDUCED TO FACILITATE CONSTRUCTION, MITIGATION MEASURES MUST BE PRESCRIBED BY AN ARBORIST AND APPROVED BY CITY FORESTRY STAFF. THESE MAY INCLUDE THE PLACEMENT OF PLYWOOD, WOOD CHIPS, OR STEEL PLATING OVER THE ROOTS FOR PROTECTION OR THE PROPER PRUNING AND CARE OF ROOTS WHERE ENCOUNTERED.

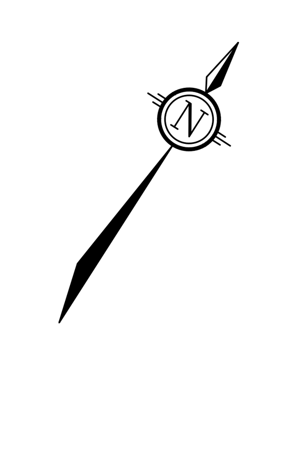
THE CITY'S TREE PROTECTION BYLAW PROTECTS BOTH CITY-OWNED TREES, CITY-WIDE, AND PRIVATELY-OWNED TREES WITHIN THE URBAN AREA. PLEASE REFER TO WWW.OTTAWA.CA/TREEBYLAW FOR MORE INFORMATION ON HOW THE TREE BY-LAW APPLIES.

TREE PROTECTION SPECIFICATION

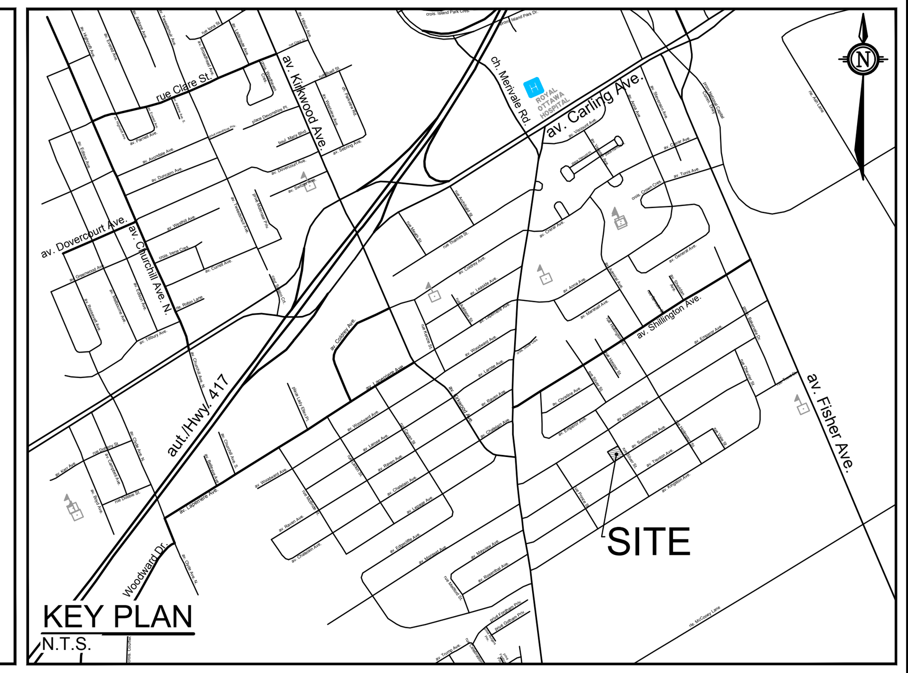
TO BE IMPLEMENTED FOR RETAINED TREES, BOTH ON SITE AND ON ADJACENT SITES, PRIOR TO ANY TREE REMOVAL OR SITE WORKS AND MAINTAINED FOR THE DURATION OF WORK ACTIVITIES ON SITE.

CITY OF OTTAWA TREE PROTECTION SPECIFICATION — D3





NORTH



KEY PLAN
N.T.S.

LEGEND

Symbol	Description
	EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ
	PROPOSED DECIDUOUS TREE
	PROPOSED SHRUBS
	PROPOSED ORNAMENTAL GRASSES
	PROPOSED PERENNIALS AND ORNAMENTAL GRASSES
	PROPOSED PERMEABLE CONCRETE PAVERS
	PROPOSED CLEAR STONE
	PROPOSED MULCH
KEY / ##	SPECIES (SEE PLANT LIST) / QUANTITY
	TEMPORARY TREE PROTECTION FENCE
	WOOD PRIVACY FENCE 1.8m HT

PLANTING

1. Plant material to be No. 1 Grade and is to comply with Canadian Standards for Nursery Stock (latest edition) published by the Canadian Nursery Landscape Association.
2. Use structurally sound plant material with strong fibrous root system free of disease, defects, and injuries. Use trees with straight trunks, well and characteristically branched for species. Obtain approval from consultant of plant material at source prior to digging. All trees and shrubs to be container grown, potted, W/B or B/B, as indicated on Plant List. Bare root plants are only acceptable for certain species and as approved by the Landscape Architect.
3. Plant material substitutions are not be permitted without the written approval from the Consultant, **with 48 hours notice**, prior to shipping plant material.
4. Plant locations are schematic / approximate only. **Contractor is to stake out locations on site for approval by the Landscape Architect prior to installation.**
5. The illustrated number of plants shown in the Planting Plan supersedes the estimated number in the Plant List. Contractor to report any discrepancies to the Landscape Architect prior to installation. Contractor will assume full responsibility if the Landscape Architect is not notified.
6. Ensure trees are thoroughly watered following planting. Monitor material and ensure adequate moisture until acceptance.
7. In heavy clay or poorly drained soils, set root ball with root collar 75-100mm higher than finished grade.
8. Approved topsoil depths are as follows:
   a. Plant Beds - **450mm** continuous depth. Applies to shrubs, perennials, vines, and groundcovers.
   b. Sod/ Seed Areas - **100mm** depth.
9. Sod to be No. 1 Kentucky Bluegrass Sod grown from minimum mixture of 3 Kentucky Bluegrass cultivars. Quality and source are to comply with Canadian Standards for Nursery Stock, Section 17, (latest edition) published by the Canadian Nursery Landscape Nursery Landscape Association.
10. Apply the following mineral fertilizer unless soil tests show other requirements:
    a. Plant Beds - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash per manufacturer specifications.
    b. Sod Areas - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash at a rate of 350kg/ha.
12. Where applicable, for any plant areas with a mix of species/ cultivars notes, Contractor is to cluster like plants in groups of 3-5 and evenly distribute these in the noted area.

GENERAL

1. Read and interpret this drawing/ drawing set in conjunction with all the contract details and specifications, including related civil, utility, structural, architectural, mechanical, electrical, environmental, geotechnical, and survey information.
2. The Contractor is to determine the exact location, size, material, and elevation of all existing utilities prior to commencing construction. Protect and assume responsibility for all existing utilities regardless of being shown on the drawings.
3. It is essential to use the plans and details in conjunction with the specifications and notes.
4. Do not scale drawings. Work to dimensions only.
5. Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
6. Reinstate all areas and items damaged or disturbed, beyond the Limit of Work, because of construction activities, including but not limited to construction staging areas, haul roads, stockpile areas, etc. to the satisfaction of the Consultant. Unless otherwise noted, Contractor is to reinstate all areas to pre-construction condition or better to the satisfaction of the Contract Administrator.

TREE PROTECTION

Implement the following protection measures for retained trees, both on site and on adjacent sites, prior to any work activity, including tree removal. Maintain tree protection fence in place and in good condition for the duration of site works:

1. Refer to Tree Conservation Report by IFS Associates.
2. The Landscape Architect or Certified Arborist is to determine the location of the tree protection fencing and detail it on any associated plans for the site (e.g. tree conservation report, tree disclosure report, etc.).
3. Under the guidance of a Certified Arborist, erect a fence at the critical root zone (CRZ) of trees. Diameter at breast height (DBH) is the trunk diameter measured at 1.3m height on the tree trunk. The CRZ is calculated as DBH x 10. Refer to the Tree Protection Fence detail.
4. Refer to the Landscape Plan for fence location. City Forestry Staff are to approve both the plan and the installed fence prior to work commencement.
5. Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
6. Do not attach any signs, notices, or posters to any tree.
7. Do not disturb, raise, or lower the existing grade within the CRZ without approval.
8. Only tunnel or bore when digging within the CRZ of a tree. Hand work only where required within the CRZ; absolutely no machinery permitted.
9. Do not damage the root system, trunk, or branches, or any tree.
10. Do not extend hard surface or significantly change landscaping.
11. Ensure that exhaust fumes from all equipment are directed away from any tree canopy.
12. When trees marked for removal overlap with the CRZ of trees marked for preservation: cut roots at the edge of the CRZ and grind down stumps after tree removals, do not pull out stumps. Ensure there is not root pulling or disturbance of the ground within the CRZ.
13. Prior to work taking place, notify and consult the Certified Arborist and City Forestry Staff if roots must be cut. Roots 20mm or larger should be cut at right angles with clean, sharp horticultural tools without tearing, crushing, or pulling. Refer to City of Ottawa Specification S.P. F-8011 Tree Protection, Excavation of Root Zone.
14. If damaged or objectionable branches are observed, consult the Certified Arborist, before any work is conducted. Do not prune leaders. Do not prune more than 1/4 of crown.
15. Set up a water and fertilizing program, if trees are being affected by site works, to the satisfaction of the Certified Arborist.
16. The Certified Arborist is to prescribe mitigation measures if the protected fenced area must be reduced to facilitate construction. Measures may include the placement of plywood, wood chips, or steel plating over the roots for protection. City Forestry Staff are to approve said measures prior to fence movement.
17. City of Ottawa By-law: Protects municipal trees and municipal natural areas in the City of Ottawa and trees on private property in the urban area of the City of Ottawa (2020-340).

PLANT LIST

121139 - Plant List

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Deciduous Trees						
ARA	2	*Acer rubrum 'Autumn Spire'*	Autumn Spire Red Maple	50mm Cal	WB	As Shown
GBS	4	*Ginkgo biloba "Sky Tower' (JN9)*	Sky Tower Ginkgo	175cm 10g	PT	As Shown
QM	2	*Quercus macrocarpa*	Bur Oak	50mm Cal	WB	As Shown
Coniferous Shrubs						
Md	6	*Microbiota decussata*	Siberian Carpet Cypress	40cm Spr	PT	As Shown
Deciduous Shrubs						
Axl	29	*Aronia x Low Scape Mound (UCONNAM165)*	Low Scape Mound Chokeberry	40cm Ht	PT	As Shown
Dsf	8	*Diervilla splendens 'Firefly Nightglow'*	Firefly Nightglow Bush Honeysuckle	50cm Ht	PT	As Shown
Hpb	36	*Hydrangea paniculata 'Bombshell'*	Bombshell Hydrangea	50cm Ht	PT	As Shown
Pcg	5	*Physocarpus opulifolius 'Centre Glow'*	Centre Glow Ninebark	60cm Ht	PT	As Shown
Poj	9	*Physocarpus opulifolius 'JEFAM'*	Amber Jubilee Ninebark	60cm Ht	PT	As Shown
Sbg	47	*Spiraea betulifoloia 'Glow Girl' (Tor Gold)*	Glow Girl Birchleaf Spirea	60cm Ht	PT	As Shown
Sfm	10	*Spiraea japonica 'Flaming Mound'*	Flaming Mound Spirea	60cm Ht	PT	As Shown
Ornamental Grasses and Perennials						
db	50	*Deschampsia cespitosa 'Bronzeschleier'*	Bronze Veil Tufted Hair Grass	1g	PT	As Shown
gmb	34	*Geranium macrorrhizum 'Bevans'*	Bevans Variety	1g	PT	50cm O.C

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
4.	RE-ISSUED FOR SITE PLAN APPLICATION	MAR 30/22	RGJ
3.	ISSUED FOR COORDINATION	MAR 10/22	RGJ
2.	ISSUED FOR SITE PLAN APPLICATION	JUL 21/21	RGJ
1.	ISSUED FOR COORDINATION	JUL 7/21	RGJ

SCALE 1:150

DESIGN MEL
CHECKED RGJ
DRAWN MEL
CHECKED RGJ
APPROVED RGJ

FOR REVIEW ONLY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — RYAN G. JAMES — MEMBER — MAR 30/22

NOVATECH
Engineers, Planners & Landscape Architects
Suite 200, 240 Michael Cowpland Drive
Ottawa, Ontario, Canada K2M 1P6
Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

LOCATION
SILVER STREET DEVELOPMENT
1062 & 1066 Silver Street, Ottawa, ON

DRAWING NAME
LANDSCAPE PLAN

PROJECT No. 121139-00
REV: REV # 4
DRAWING No. 121139-L1

PLANA1.DWG - 841mmx594mm

D07-12-21-0112

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