

Key	Botanical Name	Common Name	% Compos.	DBH (m)-DBH	DBH Avg	Owner	Remarks	Recomm.
Group A								
A	<i>Populus grandidentata</i>	Large-Tooth Aspen	30%	5cm-25cm	20cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
A	<i>Populus tremuloides</i>	Trembling Aspen	20%	5cm-25cm	10cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
A	<i>Salix</i> sp. (tree)	Willow	20%	13cm-20cm	15cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
A	<i>Acer rubrum</i>	Red Maple	10%	5cm-30cm	15cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
A	<i>Betulus papyrifera</i>	Paper Birch	10%	5cm-10cm	8cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
A	<i>Ulmus americana</i>	White Elm	5%	5cm-10cm	8cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
a	<i>Rhamnus cathartica</i>	European Buckthorn	-	-	-	Neighbour	invasive	
Group B								
B	<i>Salix</i> sp. (tree)	Willow	95%	5cm-35cm	25cm	Neighbour	Most trees in good to fair health with limited defects and cavities	
B	<i>Betulus papyrifera</i>	Paper Birch	3%	5cm-10cm	8cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
B	<i>Populus grandidentata</i>	Large-Tooth Aspen	2%	5cm-10cm	8cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
b	<i>Rhamnus cathartica</i>	European Buckthorn	-	-	-	Neighbour	invasive	
Group C								
C	<i>Betulus papyrifera</i>	Paper Birch	40%	5cm-10cm	5cm	Shared	Mostly young vigorous trees / Little to no defects present	
C	<i>Acer rubrum</i>	Red Maple	35%	5cm-25cm	15cm	Shared	Most trees in good to fair health with limited defects and cavities	
C	<i>Populus grandidentata</i>	Large-Tooth Aspen	15%	5cm-10cm	8cm	Shared	Mostly young vigorous trees / Little to no defects present	
C	<i>Salix</i> sp. (tree)	Willow	10%	5cm-10cm	8cm	Shared	Mostly young vigorous trees / Little to no defects present	
c	<i>Rhamnus cathartica</i>	European Buckthorn	-	-	-	Shared	invasive	
Group D								
D	<i>Acer rubrum</i>	Red Maple	80%	5cm-40cm	30cm	Neighbour	Most trees in good to fair health with limited defects and cavities	
C	<i>Populus grandidentata</i>	Large-Tooth Aspen	15%	5cm-35cm	20cm	Neighbour	Most trees in good to fair health with limited defects and cavities	
D	<i>Salix</i> sp. (tree)	Willow	5%	5cm-10cm	8cm	Neighbour	Mostly young vigorous trees / Little to no defects present	
D	<i>Larix laricina</i>	Tamarack	1%	5cm-20cm	15cm	Neighbour	Most trees in good to fair health with limited defects and cavities	
D	<i>Picea glauca</i>	White Spruce	1%	5cm-20cm	15cm	Neighbour	Most trees in good to fair health with limited defects and cavities	
d	<i>Rhus typhina</i>	Staghorn Sumac	-	-	-	Neighbour	-	

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. The Landscape Architect or Certified Arborist is to determine the location of the tree protection fencing and detail it on a separate sheet of drawings (e.g. tree conservation report, tree disclosure report, etc.).
2. Under the guidance of a Landscape Architect or Certified Arborist, erect a fence to protect the trunk of trees. The fence shall be at least 1.8m high (DBH) is the trunk diameter measured at 1.3m height on the tree trunk. The CRZ is established as DBH x 10. Refer to the Tree Protection Fence detail.
3. Refer to the Tree Protection Plan for fence location. City of Ottawa Staff are to be consulted to plan and install the fence prior to work commencement.
4. Do not place any material or equipment within 2m of the CRZ of any tree, including outcrops.
5. Do not attach any signs, notices or posters to any tree.
6. Do not disturb, raise, or lower the existing grade within the CRZ without approval.
7. Do not store or leave anything within the CRZ of a tree. Hand work only where required within the CRZ; absolutely no machinery permitted.
8. Do not damage the root system, trunk, or branches, or any tree.
9. Do not extend hard surface or significantly change landscaping.
10. Ensure that exhaust fumes from all equipment are directed away from any tree canopy.
11. Prior to work, ensure that a minimum 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 or cut roots within the CRZ, do not root pulling or disturbance of the ground within the CRZ.
12. Prior to work taking place, notify and consult the Landscape Architect, City of Ottawa Staff and the City of Ottawa Staff 20mm or larger should be cut at right angles with clean, sharp hand-cut tools without tearing, crushing, or pulling. Refer to City of Ottawa specification, Form F-8011 Tree Protection/Excavation of Root Zone.
13. If damaged or objectionable branches are observed, consult the Landscape Architect before removal. Do not remove roots or prune leaders. Do not prune more than 1/4 of crown.
14. Set up a water and fertilizing program, if trees are being transplanted on-site works, to the satisfaction of the Landscape Architect.
15. The Landscape Architect is to prescribe mitigation measures to protect the fence, the City of Ottawa and trees on private property. Measures may include the placement of plywood, wood chips, or steel plating over the roots for protection. City of Ottawa Staff are to approve said measures prior to fence movement.
16. City of Ottawa By-law 166-Protects municipal trees and municipal property in the urban area of the City of Ottawa (2020-340).

1. Read and interpret this drawing/drawing set in conjunction with all the contract details and specifications, including but not limited to, civil, structural, 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. All work shall be done in accordance to dimensions only.
5. Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
6. Reinstall all areas and items damaged or disturbed, beyond the Limit of Work, because of construction activities, including but not limited to, trees, shrubs, plants, and other landscape stockpile areas, etc., to the satisfaction of the Consultant.
7. Unless otherwise noted, Contractor to reinstall all areas to the condition existing prior or better to the satisfaction of the Contract Administrator.
8. Ensure that exhaust fumes from all equipment are directed away from any tree canopy.
9. When trees marked for removal overlap with the CRZ of existing or preservation trees 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.
10. Prior to work taking place, notify and consult the Landscape Architect and City Forestry Staff if roots must be cut. Roots that are larger than 100mm diameter should be cut at horizontal tapers without tearing, crushing, or pulling. Refer to City of Ottawa Specification S.P. F-0011 Tree Protection and Preservation of Root Systems.
11. If damaged or objectionable branches are observed, consult the Landscape Architect, before any work is conducted, do not prune leaders. Do not prune more than 1/4 of crown.
12. Do not use a motor and leaf blower to clean areas affected by site works, to the satisfaction of the Landscape Architect.
13. The Landscape Architect is to prescribe mitigation measures if the protected fenced area must be reduced to facilitate construction. Measures may include the placement of temporary chains and barriers.



DRAWING No.

Reforestation Mix					
%	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND. SPACING
Coniferous Trees					
5%	24	<i>Abies balsamea</i>	Balsam Fir	0.60mH	PT 2.0mO.C.
5%	24	<i>Larix laricina</i>	Tamarack	0.60mH	PT 2.0mO.C.
5%	24	<i>Pinus banksiana</i>	Jack Pine	0.60mH	PT 2.0mO.C.
5%	24	<i>Pinus strobus</i>	Eastern White Pine	0.60mH	PT 2.0mO.C.
5%	24	<i>Thuja occidentalis</i>	Eastern White Cedar	0.60mH	PT 2.0mO.C.
Deciduous Trees					
10%	48	<i>Acer rubrum</i>	Red Maple	1.20mH	PT 2.0mO.C.
5%	24	<i>Acer saccharum</i>	Sugar Maple	1.20mH	PT 2.0mO.C.
10%	48	<i>Betula papyrifera</i>	Paper Birch	1.20mH	PT 2.0mO.C.
5%	24	<i>Celtis occidentalis</i>	Hackberry	1.20mH	PT 2.0mO.C.
5%	24	<i>Juglans cinerea</i>	Balmut	1.20mH	PT 2.0mO.C.
5%	24	<i>Juglans nigra</i>	Black Walnut	1.20mH	PT 2.0mO.C.
5%	24	<i>Ostrya virginiana</i>	Ironwood	1.20mH	PT 2.0mO.C.
2%	10	<i>Populus balsamifera</i>	Balsam Poplar	1.20mH	PT 2.0mO.C.
3%	15	<i>Populus deltoides</i>	Eastern Cottonwood	1.20mH	PT 2.0mO.C.
2%	10	<i>Populus grandidentata</i>	Large-toothed Aspen	1.20mH	PT 2.0mO.C.
3%	15	<i>Populus tremuloides</i>	Trembling Aspen	1.20mH	PT 2.0mO.C.
10%	48	<i>Prunus serotina</i>	Black Cherry	1.20mH	PT 2.0mO.C.
5%	24	<i>Quercus rubra</i>	Red Oak	1.20mH	PT 2.0mO.C.
5%	24	<i>Tilia americana</i>	Basswood	1.20mH	PT 2.0mO.C.
Sandy Buffer Mix					
%	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND. SPACING
Deciduous Shrubs					
10%	40	<i>Amelanchier humilis</i>	Low Shadbush	0.60mH	PT 2.0mO.C.
10%	40	<i>Amelanchier canadensis</i>	Shadbush Serviceberry	0.60mH	PT 2.0mO.C.
10%	40	<i>Ceanothus americanus</i>	New Jersey Tea	0.60mH	PT 2.0mO.C.
10%	40	<i>Dicentra flos-purpurea</i>	Northern Bush Honeysuckle	0.60mH	PT 2.0mO.C.
10%	40	<i>Diervilla lonicera</i>	Sand Cherry	0.60mH	PT 2.0mO.C.
10%	40	<i>Rhus typhina</i>	Staghorn Sumac	0.60mH	PT 2.0mO.C.
10%	40	<i>Rhus aromatica</i>	Fragrant Sumac	0.60mH	PT 2.0mO.C.
15%	58	<i>Rosa blanda</i>	Meadow Rose	0.60mH	PT 2.0mO.C.
10%	40	<i>Symphoricarpos alba</i>	Snowberry	0.60mH	PT 2.0mO.C.

Dry Shrub Mix					
%	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND. SPACING
Deciduous Shrubs					
10%	21	<i>Aronia melanocarpa</i>	Black Chokeberry	0.60mH	PT 2.0mO.C.
10%	21	<i>Ceanothus americanus</i>	New Jersey Tea	0.60mH	PT 2.0mO.C.
10%	21	<i>Diervilla lonicera</i>	Northern Bush Honeysuckle	0.60mH	PT 2.0mO.C.
10%	21	<i>Physocarpus opulifolius</i>	Common Ninebark	0.60mH	PT 2.0mO.C.
10%	21	<i>Rhus typhina</i>	Staghorn Sumac	0.60mH	PT 2.0mO.C.
10%	21	<i>Rhus aromatica</i>	Fragrant Sumac	0.60mH	PT 2.0mO.C.
10%	21	<i>Rosa blanda</i>	Meadow Rose	0.60mH	PT 2.0mO.C.
10%	21	<i>Rubus occidentalis</i>	Black Raspberry	0.60mH	PT 2.0mO.C.
10%	21	<i>Rubus odoratus</i>	Flowering Raspberry	0.60mH	PT 2.0mO.C.
10%	21	<i>Symphoricarpos alba</i>	Snowberry	0.60mH	PT 2.0mO.C.
Wetsoils Shrub Mix					
%	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND. SPACING
Deciduous Shrubs					
10%	41	<i>Ailurus incana ssp. rugosa</i>	Speckled Alder	0.60mH	PT 2.0mO.C.
10%	41	<i>Betula populifolia</i>	Gray Birch	0.60mH	PT 2.0mO.C.
10%	41	<i>Cephalanthus occidentalis</i>	Butterbush	0.60mH	PT 2.0mO.C.
5%	20	<i>Cornus alternifolia</i>	Pagoda Dogwood	0.60mH	PT 2.0mO.C.
5%	20	<i>Cornus racemosa</i>	Grey Dogwood	0.60mH	PT 2.0mO.C.
10%	41	<i>Cornus sericea</i>	Red Osier Dogwood	0.60mH	PT 2.0mO.C.
10%	41	<i>Myrica gale</i>	Sweet Gale	0.60mH	PT 2.0mO.C.
5%	20	<i>Salix ericecephala</i>	Heart-Leaved Willow	0.60mH	PT 2.0mO.C.
5%	20	<i>Salix discolor</i>	Rusky Willow	0.60mH	PT 2.0mO.C.
10%	41	<i>Salix petiolaris</i>	Slender Willow	0.60mH	PT 2.0mO.C.
10%	41	<i>Spiraea alba</i>	White Meadow sweet	0.60mH	PT 2.0mO.C.
10%	41	<i>Viburnum lentago</i>	Nannyberry	0.60mH	PT 2.0mO.C.
Proposed Trees: Ownership					
Private				Total	119
City-Owned					

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND.	SPACING	NATIVE/N-NATIVE
Coniferous Trees							
ABA	6	<i>Abies balsamea</i>	Balsam Fir	200cmH	WB	As Shown	Native
LL	8	<i>Larix laricina</i>	Tamarack	200cmH	WB	As Shown	Native
PM	6	<i>Pinus mariana</i>	Black Spruce	200cmH	WB	As Shown	Native
PNS	6	<i>Pinus strobus</i>	Eastern White Pine	200cmH	WB	As Shown	Native
TO	9	<i>Thuja occidentalis</i>	Eastern White Cedar	200cmH	WB	As Shown	Native
TCS	1	<i>Tsuga canadensis</i>	Eastern Hemlock	200cmH	WB	As Shown	Native
Deciduous Trees							
ARN	5	<i>Acer rubrum 'Northwood'</i>	Northwood Red Maple	50mmGal	WB	As Shown	Natvar.
AR	6	<i>Acer rubrum</i>	Red Maple	50mmGal	WB	As Shown	Native
AS	5	<i>Acer saccharum</i>	Sugar Maple	50mmGal	WB	As Shown	Native
AEG	2	<i>Aspen glabra</i>	Ohio Buckeye	45mmGal	WB	As Shown	Native
AXB	2	<i>Amelanchier x grandiflora 'Ballerina'</i>	Ballerina Serviceberry	50mmGal	WB	As Shown	Native
BAL	5	<i>Betula alleghaniensis</i>	Yellow Birch	50mmGal	WB	As Shown	Native
BP	3	<i>Betula papyrifera</i>	Paper Birch	50mmGal	WB	As Shown	Native
COV	4	<i>Coryne ovata</i>	Shagbark Hickory	50mmGal	WB	As Shown	Native
CEL	6	<i>Celtis occidentalis</i>	Hackberry	50mmGal	WB	As Shown	Native
GTI	7	<i>Gleditsia triacanthos var. inermis 'Impicola'</i>	Imperial Honeylocust	50mmGal	WB	As Shown	Natvar.
GDI	5	<i>Gymnocladus dioica</i>	Kentucky Coffee Tree	50mmGal	WB	As Shown	Native
JN	4	<i>Juglans nigra</i>	Black Walnut	50mmGal	WB	As Shown	Native
MORU	3	<i>Morus rubra</i>	Red Mulberry	80cmGal	PT	As Shown	Native
PGD	2	<i>Populus grandidentata</i>	Large-toothed Aspen	40mmGal	WB	As Shown	Native
PTR	3	<i>Populus tremuloides</i>	Trembling Aspen	40mmGal	WB	As Shown	Native
PS	1	<i>Prunus serotina</i>	Black Cherry	50mmGal	WB	As Shown	Native
QA	4	<i>Quercus alba</i>	White Oak	50mmGal	WB	As Shown	Native
QM	6	<i>Quercus macrocarpa</i>	Burr Oak	50mmGal	WB	As Shown	Native
TA	7	<i>Tilia americana</i>	Basswood	50mmGal	WB	As Shown	Native
Deciduous Shrubs							
ARV	13	<i>Aronia x prunifolia 'Viking'</i>	Viking Black Chokeberry	60cmH	PT	60cmO.C.	Natvar.
ARN	26	<i>Physocarpus opulifolius 'Nanus'</i>	Dwarf Ninebark	60cmH	PT	100cmO.C.	Natvar.
Rag	10	<i>Rhus aromatica 'Gro-Low'</i>	Gro-Low Fragrant Sumac	60cmH	PT	160cmO.C.	Natvar.
SN	2	<i>Sail nigra</i>	Black Willow	60cmH	PT	As Shown	Native
Ornamental grasses							
clf	6	<i>Calamagrostis scutiflora 'Karl Foerster'</i>	Karl Foerster Feather Reed Grass	1g	PT	45cmO.C.	Non-Native

LEGEND

3-D1

DETAIL SHEET # NOVA TECH DETAIL
E.G. L1, L2, ETC. NUMBER, SEE LIST
FOR CODE

PROPERTY LIMIT

PROPOSED CONCRETE

PROPOSED PAVERS

PARKING AREA SEED MIX

RETENTION SEED MIX

WETLAND SEED MIX

PROPOSED SANDY BUFFER MIX

PROPOSED WET SOILS SHRUB MIX

PROPOSED DRY SHRUB MIX

PROPOSED REFORESTATION

PROPOSED SNOW STORAGE AREA

PROPOSED DECIDUOUS TREE

PROPOSED CONIFEROUS TREE

SPECIES (SEE PLANT LIST)

QUANTITY

CHAIN LINK FENCE WITH TURTLE FENCE

CHAIN LINK FENCE

TURTLE FENCE

TREE PROTECTION FENCE, SEE TCR PLAN

BOULDER CLUMP

BASKING LOGS

ROOT WAD

PROPOSED EV CHARGING, REFER TO ELEC

PROPOSED LIGHT POLE, REFER TO ELEC

THE HEADWATER OUTLET CHANNEL WITHIN THE EASTERN SECTION OF THE OPEN SPACE HAS BEEN ALIGNED TO PRESERVE AS MANY OF THE EXISTING TREES IN THIS AREA AND MAY BE ADJUSTED IN THE FIELD TO MAXIMIZE PRESERVATION, IF GRADES ALLOW.

NORTH

NOVATECH DETAILS

Found on Sheet L2.

D1. Standard Deciduous Tree Planting

D2. Standard Coniferous Tree Planting

D3. Shrub and Perennial Planting

D4. Shrub Naturalization

D5. Reforestation in Grass

D6. Root Wad

D7. Basking Log

D8. Creek Channel

D9. Bike Layout

D10. Turtle Fence

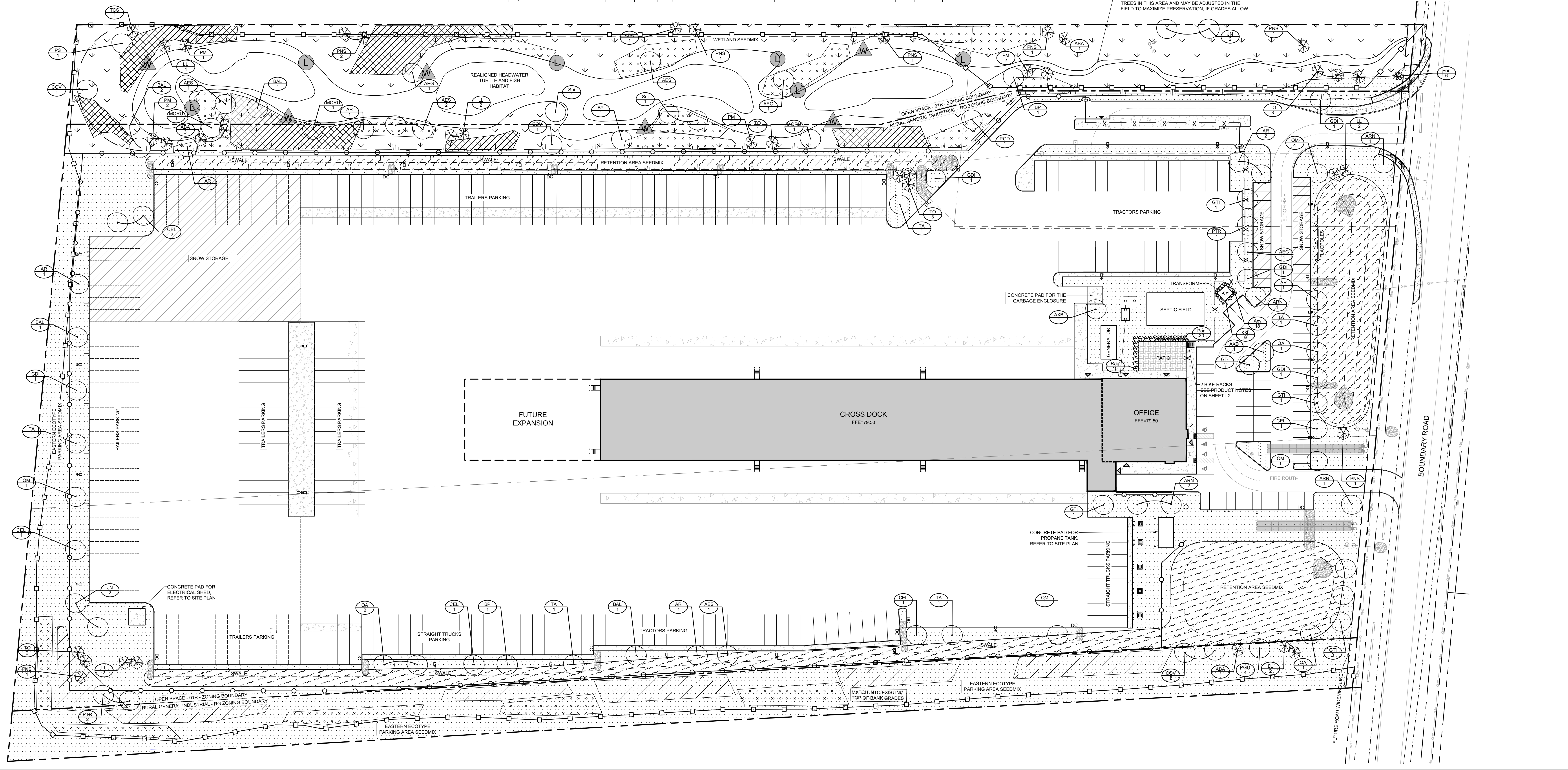
CITY DETAILS

Related details from City of Ottawa Standard Tender Documents
Volume No. 2 Standard Detail Drawings.

F9. Chainlink Fence

SC4. Typical Concrete Sidewalk in Boulevard

SC5. Sidewalk Construction Joints



NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS,
WATERMANS, 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.

Owner:
DAY & ROSS INC.
359 MAIN STREET
HARTLAND,
NB E7P 1G6

Civil Engineer
NOVATECH
240 MICHAEL COWPLAND
DRIVE, SUITE 200
OTTAWA,
ON K2M 1P6

Surveyor
ANNIS O'SULLIVAN,
VOLLEBERG LTD.
14 CONCORSE GATE,
SUITE 500, NEPEAN,
ON K2E 7S6

Architect
N4S ARCHITECTURE INC.
ROBERT MATTHEWS
71 BANK STREET,
7TH FLOOR, OTTAWA,
ON K1P 9A2

DISCLAIMER:
The elements on this plan illustrate the design intent and
general constructability of the proposed landscape which
will support the associated development. This is to
demonstrate how the canopy cover, urban design, health,
and climate change objectives of the Official Plan will be
met through tree planting and site design. This drawing is
for City review only and is not intended for construction.
Final detailed design and construction documentation will be
provided with certified 'Issued for Construction'
drawings and specifications prior to construction.

SCALE
1:500
0 5 10 15 20

DESIGN
KEW
CHECKED
RGJ
DRAWN
KEW/TB
CHECKED
SC
APPROVED
SC

FOR REVIEW ONLY

LOCATION
CITY OF OTTAWA
5494-5510 BOUNDARY ROAD

DRAWING NAME
LANDSCAPE PLAN

PROJECT NO.
118168

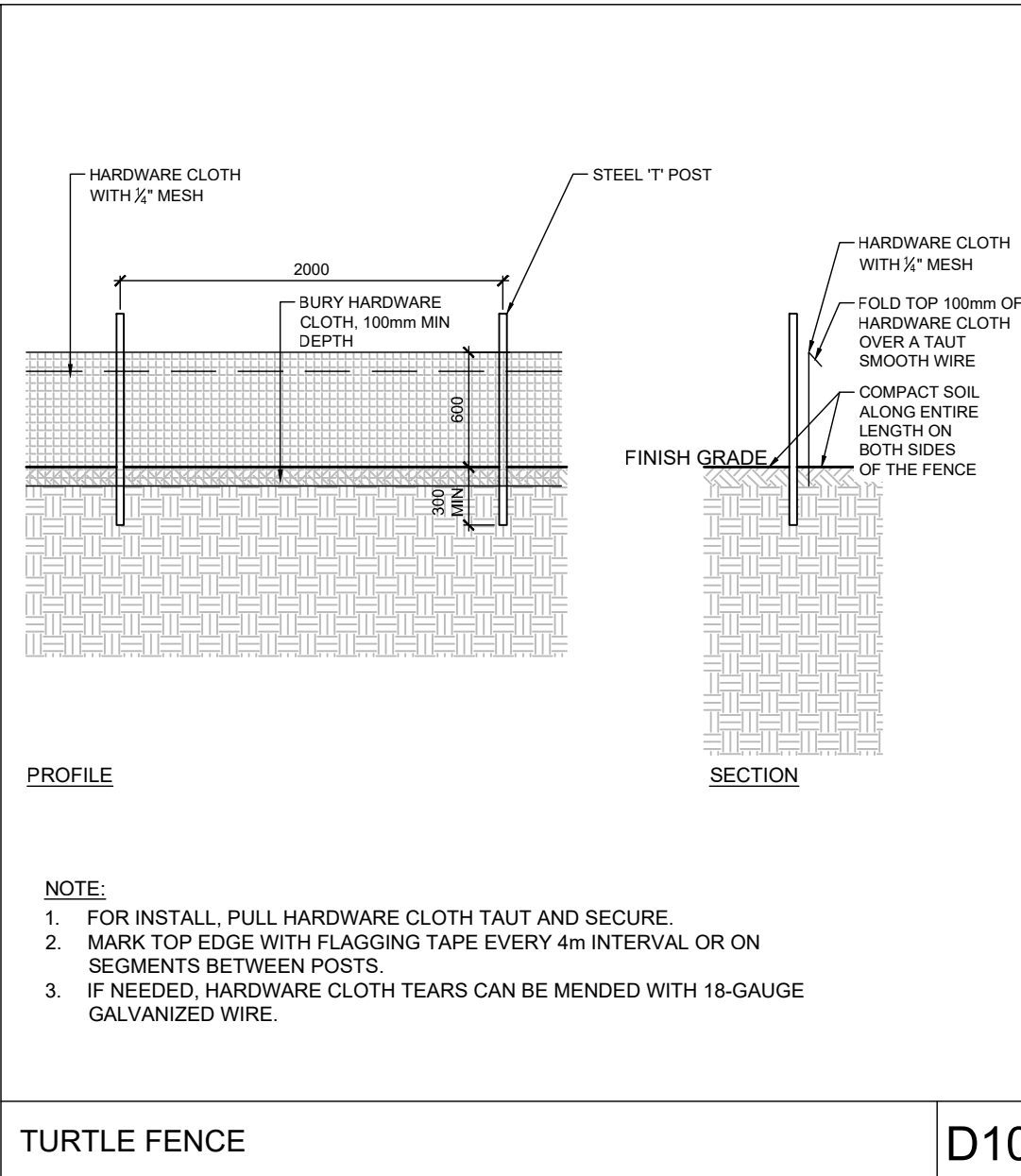
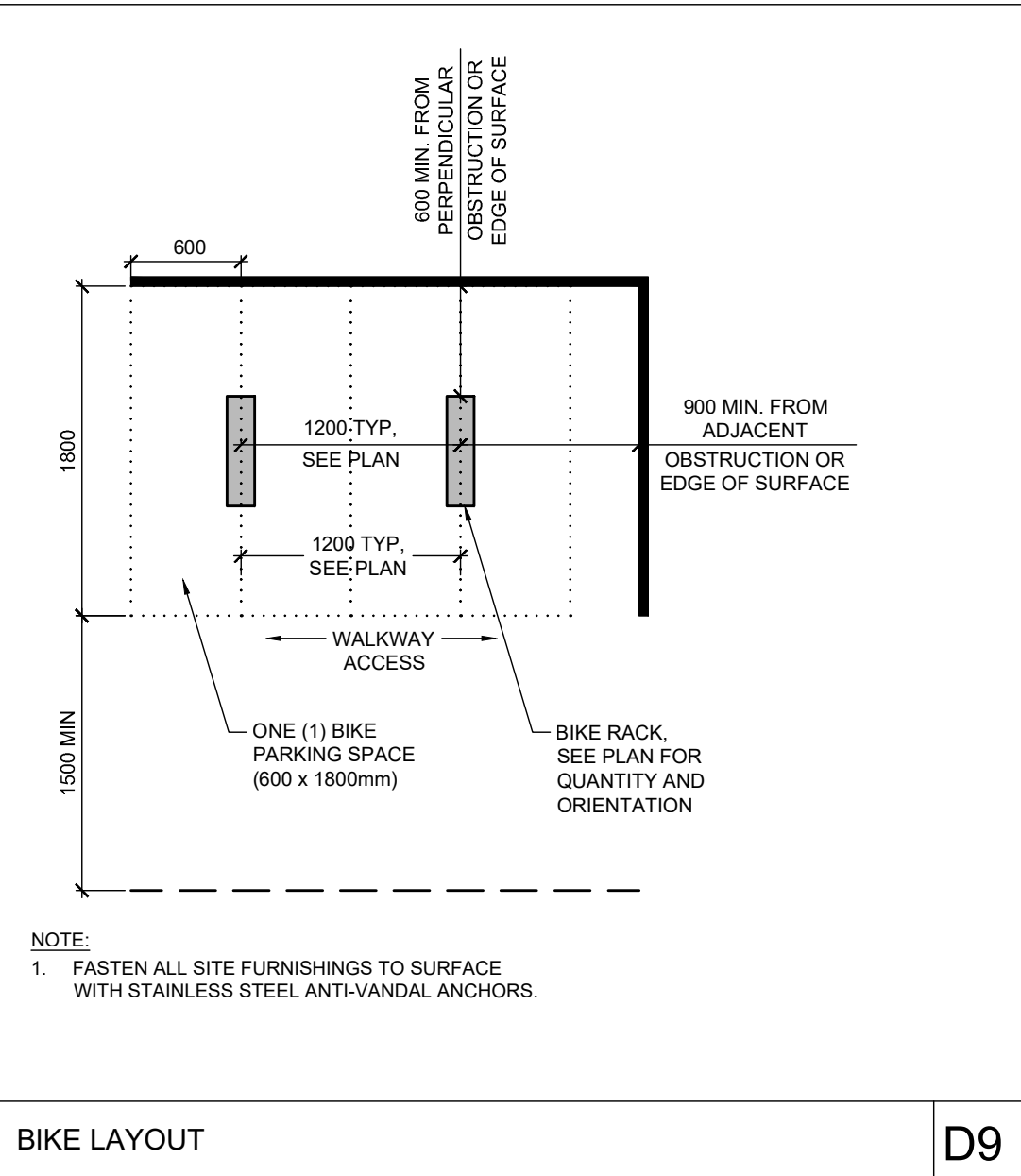
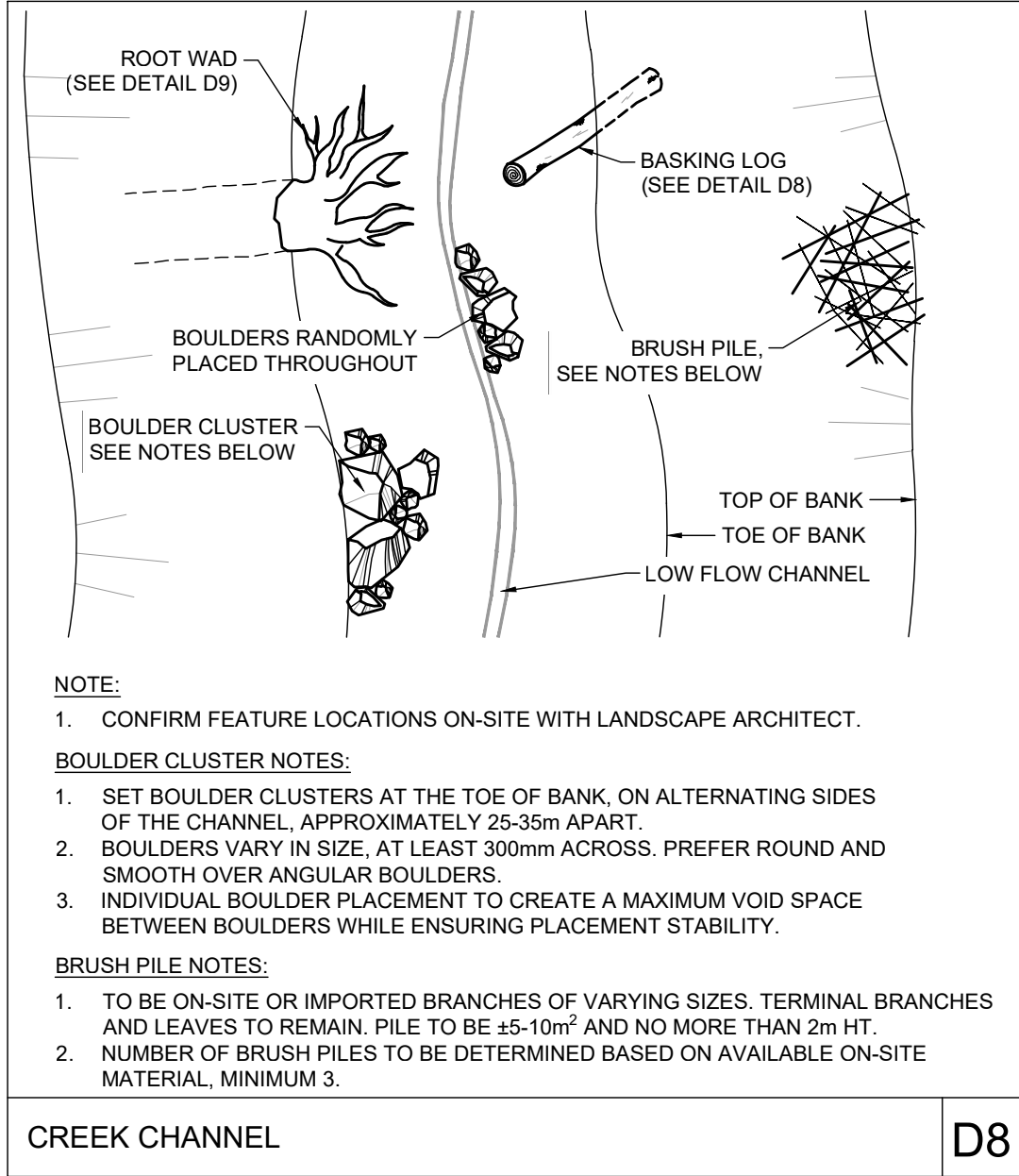
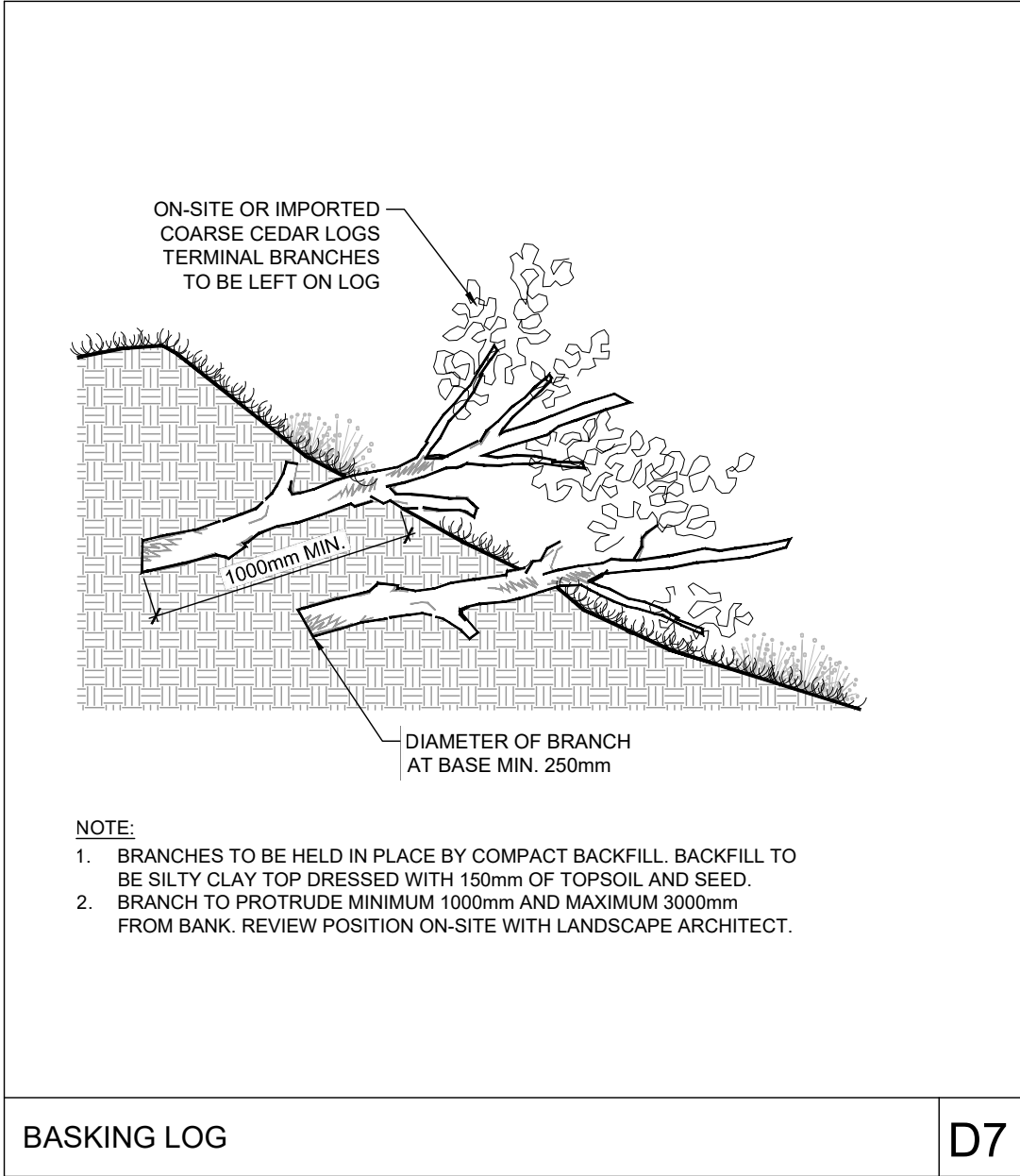
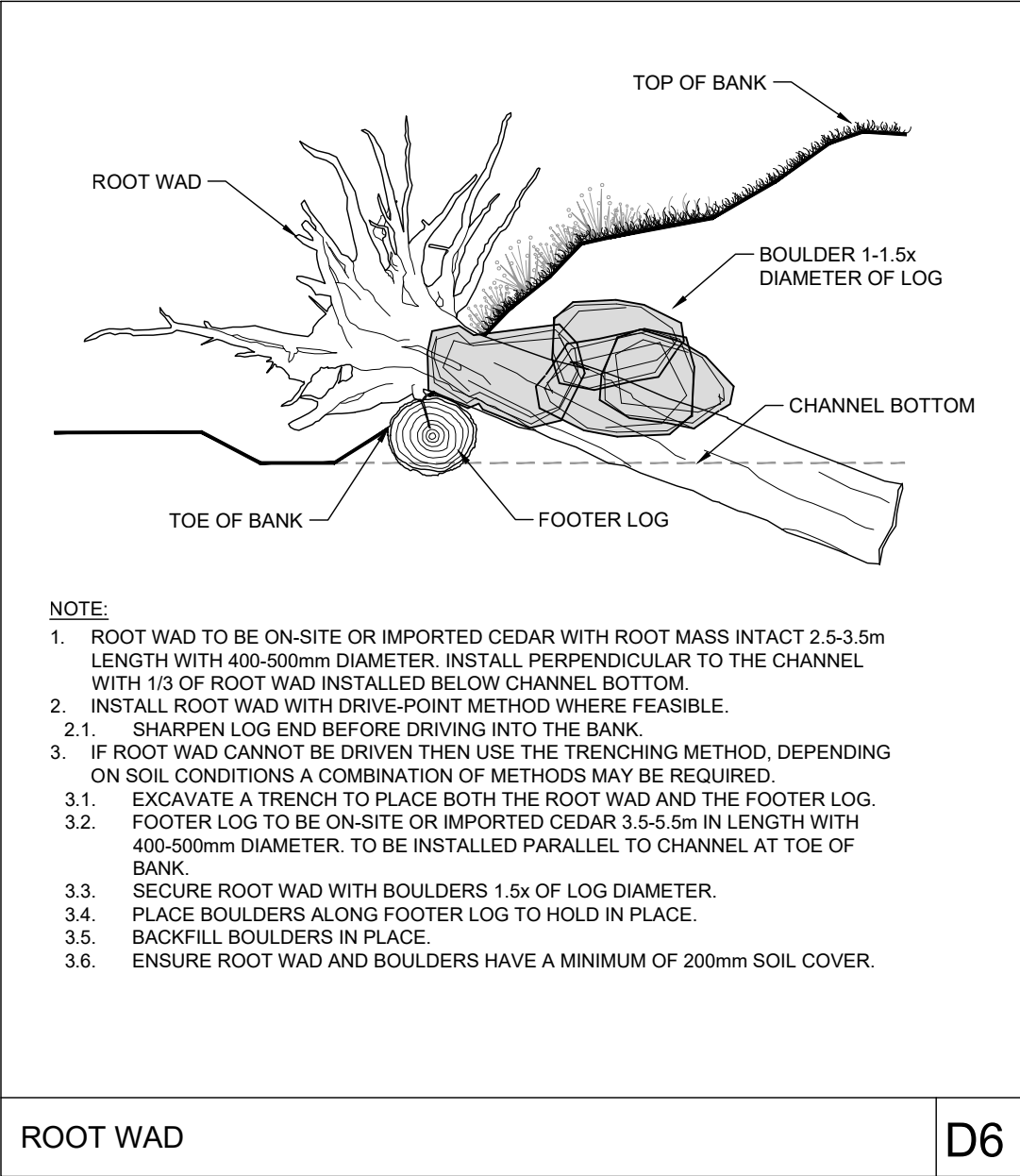
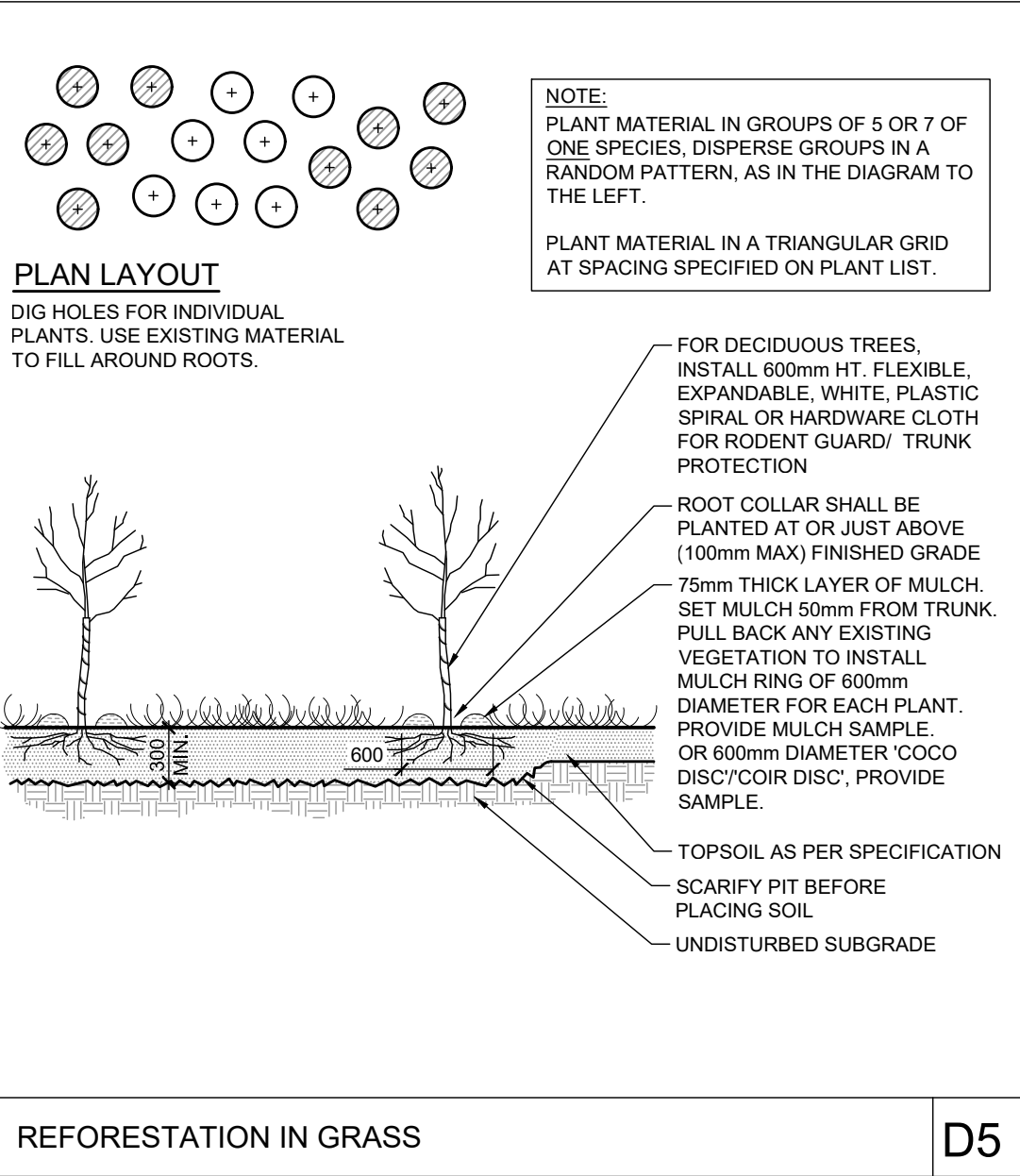
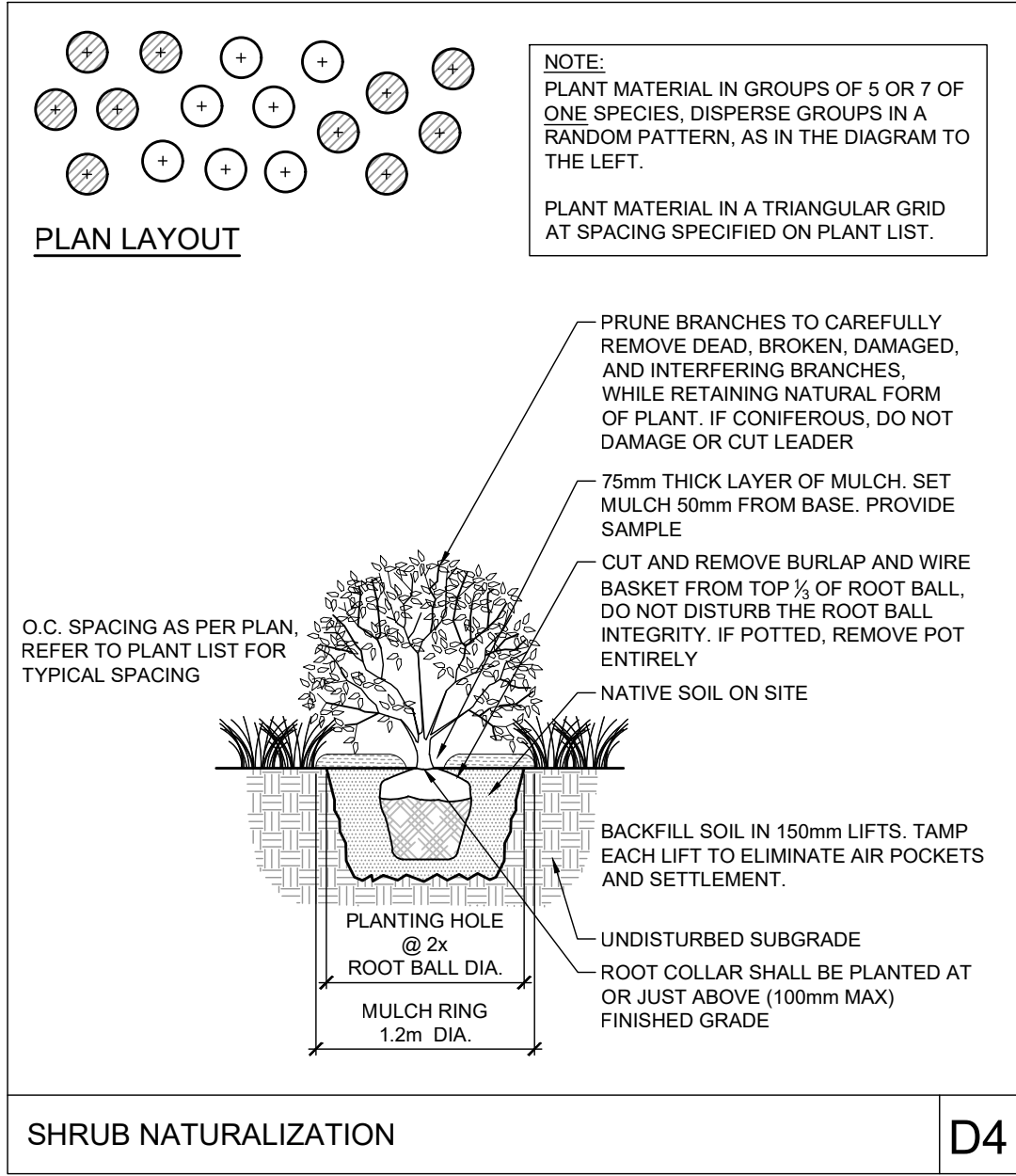
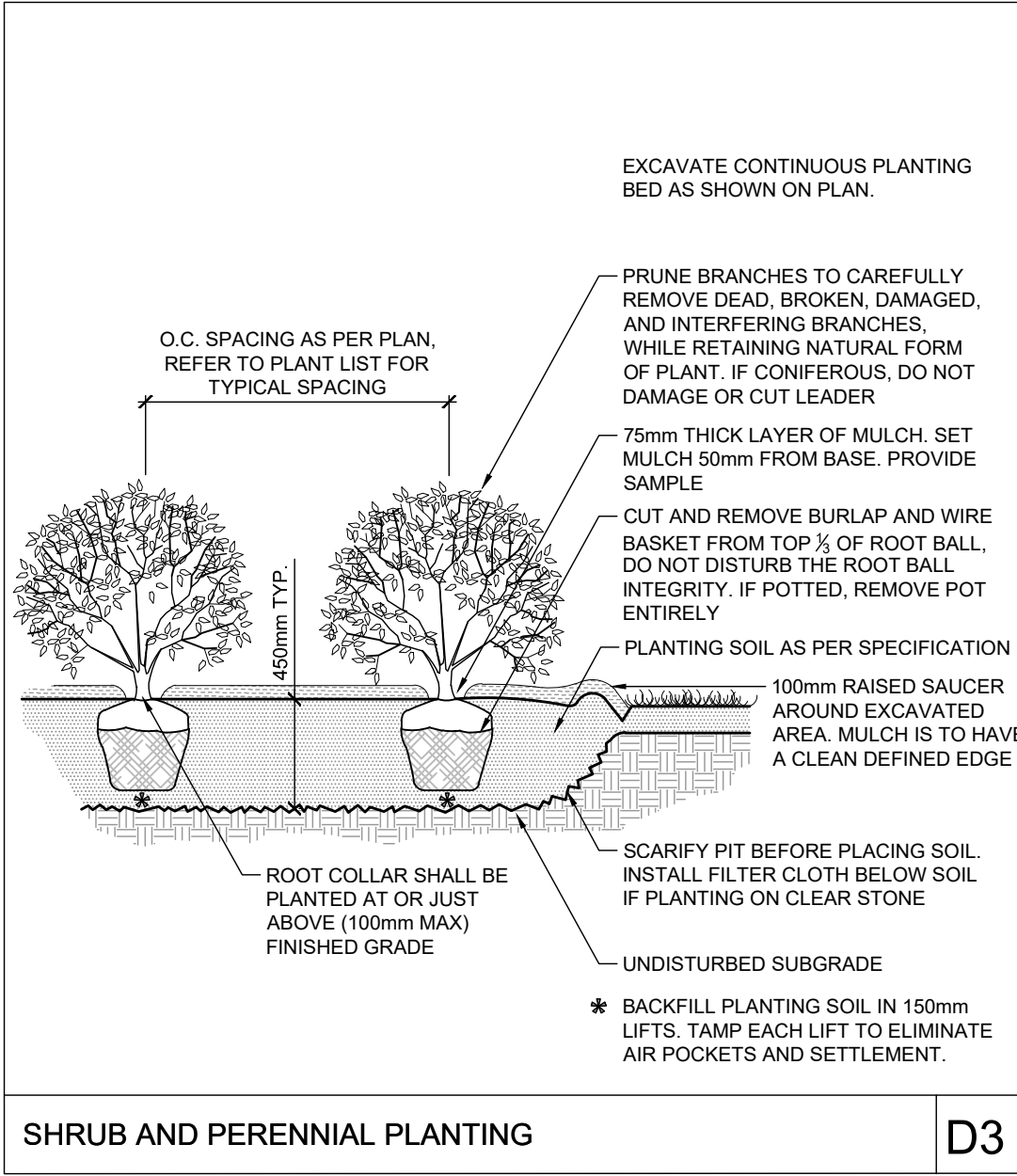
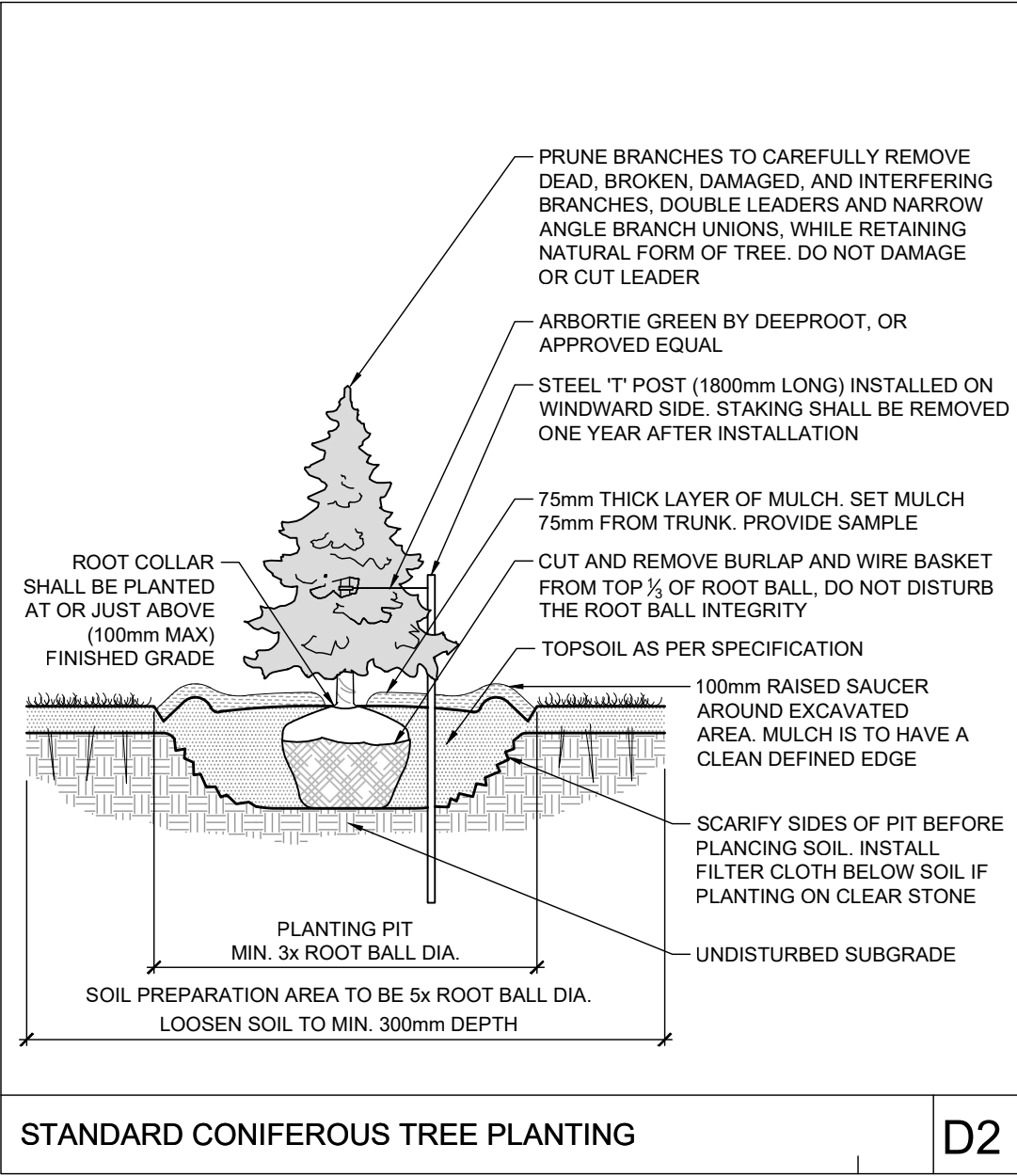
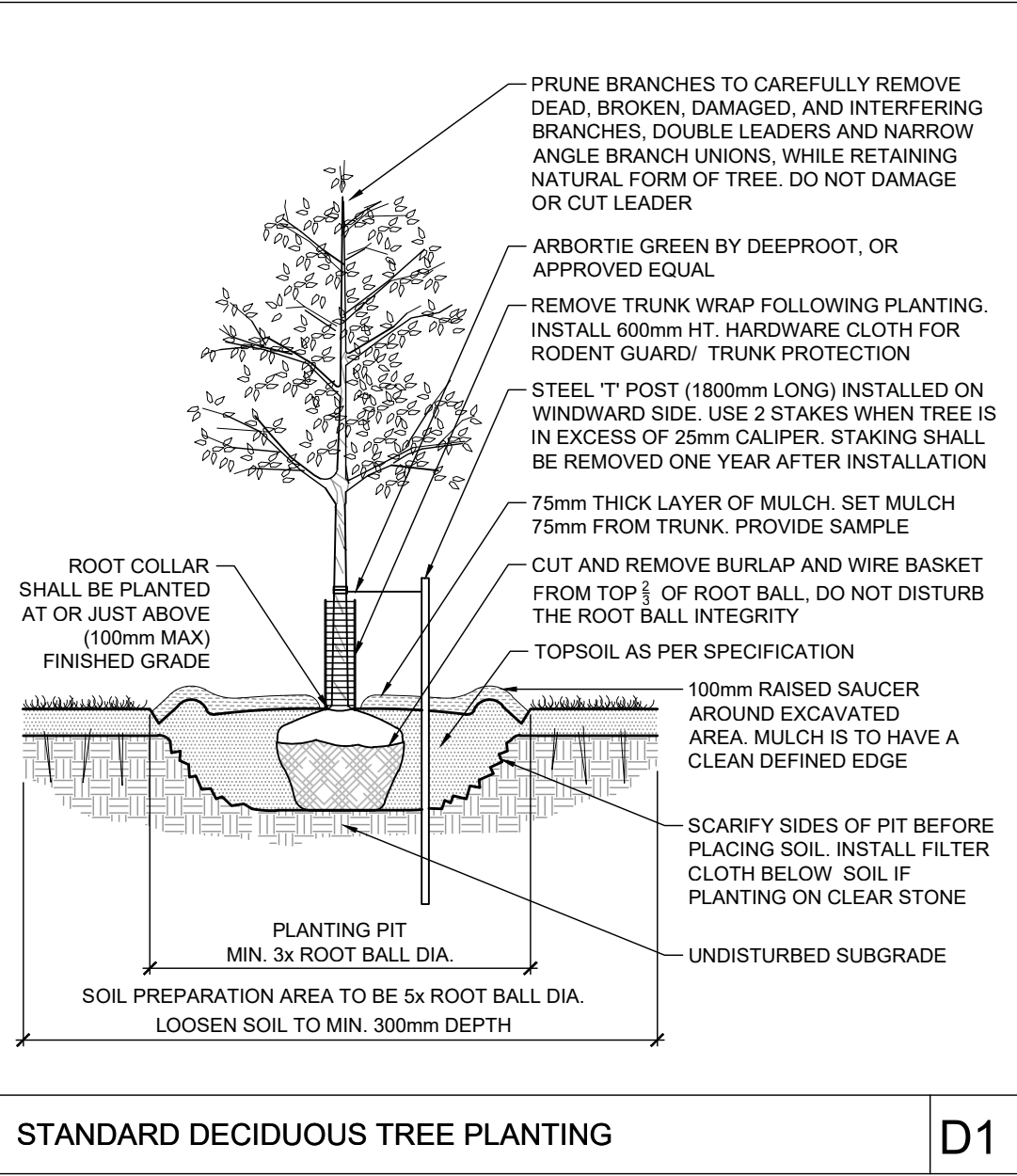
REV
REV # 5

DRAWING NO.
118168-L

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

PLANS/2015

#00000



REALIGNED HEADWATER

- Depth of realigned headwater to be 0.5m to 1m depth of water.

GENERAL

- 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.
- 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.
- It is essential to use the plans and details in conjunction with the specifications and notes.
- Do not scale drawings. Work to dimensions only.
- Protect all existing and retained vegetation for the duration of construction according to the contract details and specifications.
- 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 Contractor Administrator.

PLANTING

- 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.
- 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.
- Plant material substitutions are not permitted without the written approval from the Consultant, with 48 hours notice, prior to shipping plant material.
- Plant locations are schematic/ approximate only. Contractor is to stake out locations on site for approval by the Landscape Architect prior to installation.
- 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.
- Ensure trees are thoroughly watered following planting. Monitor material and ensure adequate moisture until acceptance.
- In heavy clay or poorly drained soils, set root ball with root collar 75-100mm higher than finished grade.
- Approved topsoil depths are as follows:
 - Plant Beds - 450mm continuous depth. Applies to shrubs, perennials, vines, and groundcovers.
 - Sod/ Seed Areas - 100mm depth.
- Reforestation - 300mm depth.
- 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.
- Apply the following mineral fertilizer unless soil tests show other requirements:
 - Plant Beds - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash per manufacturer specifications.
 - Sod Areas - (8-32-16), i.e. 8% Nitrogen, 32% Phosphorus, 16% Potash at a rate of 350kg/ha.
- 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 trees in the noted area.

GRADING

- Contractor is to verify accuracy of existing topography and survey and report any discrepancies to the Contract Administrator. Commencement of grading is to constitute acceptance of site conditions; no claims for extras will be entertained thereafter.
- Strip topsoil, organic matter, or deleterious material from all areas of the site designated for hard landscaping, or the construction of structures. Strip topsoil to its full depth, exercising caution not to mix topsoil with subsoil.
- Provide drainage as indicated in grading plan. Round all tops and toes of slopes, smoothly. Compact all areas to 95% standard proctor density unless otherwise noted.
- Contractor to excavate to accommodate hard surface and ensure proper depth of excavation as specified on related drawings, contract details and specifications.
- Match existing grades at limit of work.
- Ensure positive surface drainage of all areas within the limit of work, whether indicated or not, and prevent ponding.
- Refer to geotechnical recommendations (if available) prepared by Geotechnical Engineer for subsurface conditions and construction recommendations. Claims for conditions that could have been ascertained by review of geotechnical report will not be considered.
- The Geotechnical Engineer is to inspect compacted subgrade prior to placement of granular material.
- Sub-excavate and replace any soft areas evident from compaction with suitable material that is frost compatible with the existing soils as recommended by the Geotechnical Engineer.
- Remove from site all excess excavated material unless instructed otherwise by Consultant.
- Slopes, unless otherwise noted:
 - Walkways - maximum 12:1 slope (do not exceed 2% cross slopes).
 - Asphalt and concrete surfaces - minimum 1.0% slope; maximum 5% slope.
 - Sod/ Seed Areas and Plant Beds - minimum 2% slope; maximum 33% slope.
 - Swailes - Flat-bottomed per Contract drawings and specification, with maximum side slopes of 3:1 and a minimum slope of 8:1.
- New surfaces are to have smooth, safe, and seamless transition of materials, where construction of proposed surfaces adjoins existing materials. This is applicable for all surfaces soft and hard.

PRODUCT INFORMATION

- Install products as per manufacturer specifications. Shop drawings required.
- PAVERS**
- Edge of pavers to receive edge restraint.
- Melville 80 Paver by Permacon
 - Location: Patio Area
 - Size: ALL
 - Pattern: Modular
 - Colour: Range Scandina Grey
- GATE**
- FoldSmart XT Speedgate by Wallace Perimeter Security
 - Panel Height: 1.8m (6')
 - Width: 4.57m (15')
 - Panel Infill: Vertical Picket Infill
 - Optional: Barb Wire Anti-Climb Edge, Dual head card reader pedestal, Card reader to enter and exit, CCTV and intercom attachment at entrance and exit.
- Contractor to coordinate:
- Distance the pedestal for card reader is from bi-fold gate
 - How many bollards and where
 - Refer to Manufacturer Specifications regarding mounting adjoining fence material to columns.
 - How far the curb needs to be cut back to install the gates.

SEED - WETLAND HABITAT

Seed mix for wetland restoration.

PICKSEED: WETLAND HABITAT MIX

Seeding Rate: 22-25 kg/ha

Rate	Botanical Name	Common Name
10%	<i>Andropogon gerardii</i>	Big Blue Stem
1%	<i>Asclepias incarnata</i>	Swamp Milkweed
1%	<i>Aster purpureus</i>	Purplestem Aster
1%	<i>Carex crinita</i>	Fringe Sedge
5%	<i>Carex scoparia</i>	Blunt Broom Sedge
2%	<i>Carex stipata</i>	AWL Sedge
23%	<i>Carex vulpinoidea</i>	Fox Sedge
2%	<i>Desmodium canadense</i>	Showy Tick Trefoil
21%	<i>Elymus virginicus</i>	Virginia Wild Rye
2%	<i>Eupatorium maculatum</i>	Spotted Joe Pye Weed
2%	<i>Eupatorium perfoliatum</i>	Boneset
3%	<i>Euthamia graminifolia</i>	Grassleaf Goldenrod
3%	<i>Helenium autumnale</i>	Sneezeweed
2%	<i>Helopsis helianthoides</i>	Ox Eye Sunflower
1%	<i>Monarda fistulosa</i>	Wild Bergamot
5%	<i>Panicum virgatum</i>	Switchgrass
10%	<i>Sorghastrum nutans</i>	Indian Grass
4%	<i>Verbena hastata</i>	Blue Vervain

SEED - EASTERN ECOTYPE PARKING LOT MIX

Stabilizes slopes greater than 3:1.

PICKSEED: EASTERN ECOTYPE PK LOT MIX

Seeding Rate: 22-25 kg/ha

Rate	Botanical Name	Common Name
1%	<i>Agrostis perennans</i>	Autumn Bentgrass
15%	<i>Andropogon gerardii</i>	Big Bluestem
25%	<i>Elymus virginicus</i>	Virginia Wild Rye
6%	<i>Panicum virgatum</i>	Switchgrass
35%	<i>Schizachyrium scoparium</i>	Little Bluestem
18%	<i>Sporobolus cryptandrus</i>	Sand Dropseed

SEED - RETENTION AREA

Used to stabilize soils in retention basins.

PICKSEED: RETENTION MIX

Seeding Rate: 22-25 kg/ha

Rate	Botanical Name	Common Name
15%	<i>Agrostis hyemalis</i>	Ticklegrass
15%	<i>Agrostis perennans</i>	Autumn Bentgrass
20%	<i>Carex vulpinoidea</i>	Fox Sedge
20%	<i>Elymus virginicus</i>	Virginia Wild Rye
5%	<i>Juncus tenuis</i>	Path Rush
25%	<i>Panicum clandestinum</i>	Deer Tongue

NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OR 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.

Owner:
DAY & ROSS INC.
358 MAIN STREET
HARTLAND,
MN 577 103

Civil Engineer
NOVATECH
240 MICHAEL COWPLAND
DRIVE, SUITE 200
OTTAWA,
ON K2M 1P6

Surveyor
ANNIS O'SULLIVAN,
VOLLEBEKK LTD.
14 CONCOURSE GATE,
SUITE 500, NEPEAN,
ON K2E 756

Architect
N45 ARCHITECTURE INC.
ROBERT MATTHEWS
71 BANK STREET,
7TH FLOOR, OTTAWA,
ON K1P 9K2

DISCLAIMER:

The elements on this plan illustrate the design intent and general constructability of the proposed landscape which will support the associated development. This is to demonstrate how the canopy cover, urban design, health, and climate change objectives of the Official Plan will be met through tree planting and site design. This drawing is for City review only and is not intended for construction. Final detailed design and construction documentation is to be provided with certified 'Issued for Construction' drawings and specifications prior to construction.

No	REVISION	DATE	BY
5.	ISSUED FOR COMPLETENESS COMMENTS	FEB 27/25	SC
4.	ISSUED FOR BUILDING PERMIT	OCT 24/24	RGJ
3.	ISSUED FOR 90% SUBMISSION	OCT 4/24	RGJ
2.	ISSUED FOR SITE PLAN APPLICATION	OCT 2/24	RGJ
1.	ISSUED FOR 60% SUBMISSION	AUG 16/24	RGJ

SCALE

DESIGN

KEW

RGJ

KEW/TB

SC

SC

FOR REVIEW ONLY



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
CITY OF OTTAWA
5494-5510 BOUNDARY ROAD

DRAWING NAME

DETAILS

PROJECT No:

118168

REV # 5

DRAWING No:

118168-L2

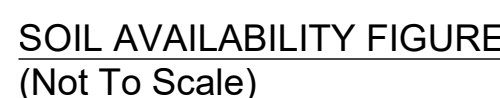
PLANS/2015

#00000

Planting bed no.	Available Soil Area (sq m)	Available Soil Volume (cu m)	No. of trees proposed				Total No. of trees	Min. required Soil volume total (cu m)
			Small/ Column (25m²)	Medium (30m²)	Large (35m²)	Evergreen (30m²)		
Planting bed 1	30273	45,410	0	9	53	36	98	2715.00
Planting bed 2	2096	3,144	0	2	7	3	12	335.00
Planting bed 3	57	86	1	1	0	0	2	45.00
Planting bed 4	1239	1,859	1	3	4	0	8	215.00
Planting bed 5	46	69	0	0	0	0	0	0.00

CANOPY COVER ESTIMATE

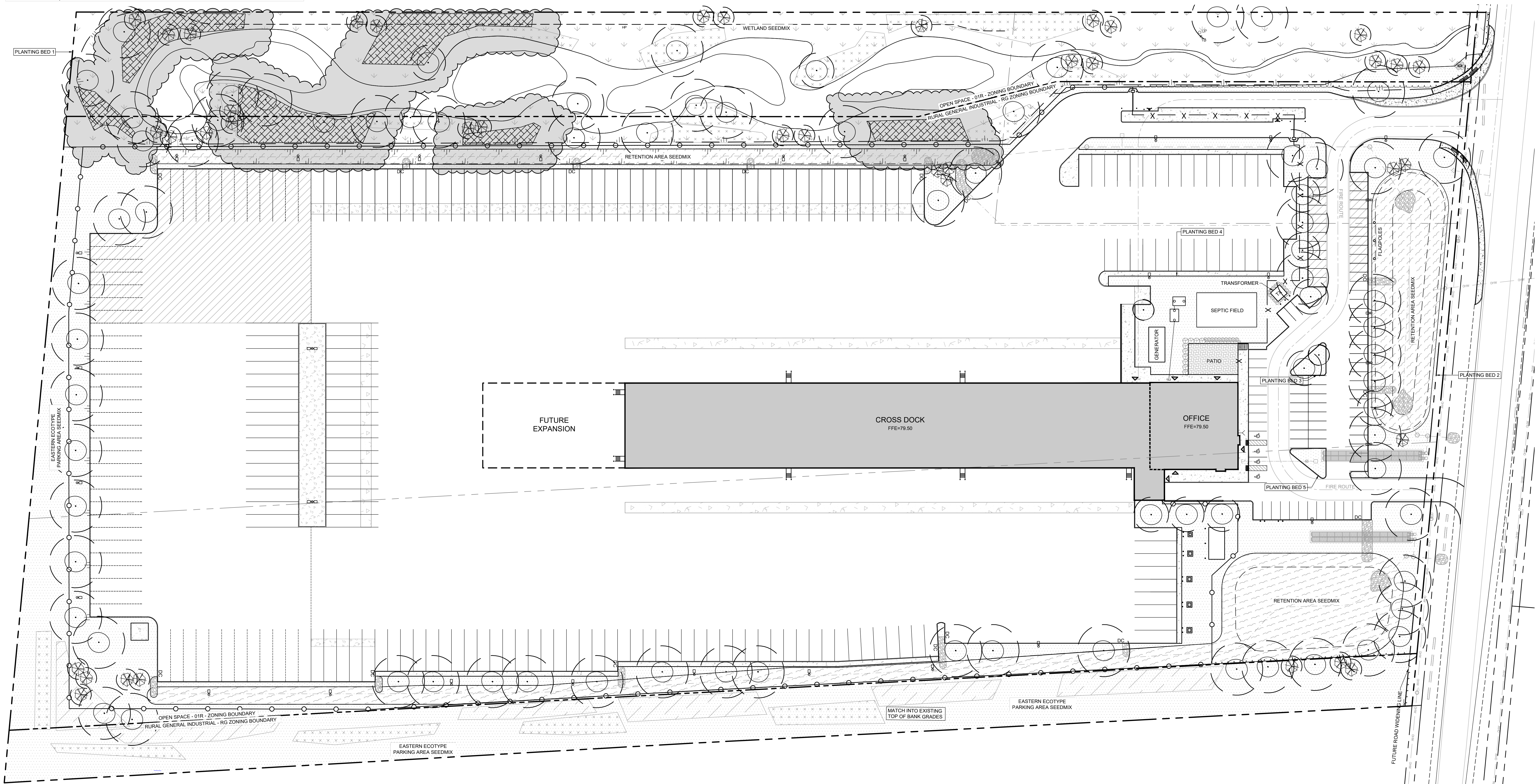
*NOTE: The canopy cover of reforestation planting is calculated with a 7.5m offset outside of the planting areas in order to account for at-maturity factor.



D-D1	DETAIL SHEET # _____ E.G. L12, EJT	NOVATECH DETAIL # _____ SEE LIST FOR CODE
	PROPERTY LIMIT	
	PROPOSED CONCRETE	
	PROPOSED PAVERS	
	PARKING AREA SEED MIX	
	RETENTION SEED MIX	
	WETLAND SEED MIX	
	PROPOSED SANDY BUFFER MIX	
	PROPOSED WET SOIL SHRUB MIX	
	PROPOSED SOIL SHRUB MIX	
	PROPOSED REFORESTATION	
	PROPOSED SNOW STORAGE AREA	
	ESTIMATED CANOPY COVER OF TREES AT MATURITY	
	ESTIMATED CANOPY COVER OF REFORESTATION AREA AT MATURITY	



1. Read and interpret this drawing drawing set in conjunction with all the contract details and specifications, including related codes, standards, codes, laws, regulations, technical, electrical, environmental, geotechnical, and survey information.	4. Do not scale drawings. Turn to dimensions only.
2. Inform the Contractor to determine the exact location, size, material, and elevation of all existing utilities prior to commencing construction. Protect and assume responsibility for maintaining utilities regardless of being shown on the drawings.	5. Protect all existing and retained vegetation for the duration of the project according to the contract details and specifications.
3. It is essential to use the plans and details in conjunction with the specifications and contract documents to:	6. Reinstall all areas and items damaged or disturbed, beyond the limits of Work, but within the limits of the project, but not limited to construction staging areas, haul roads, stockpile areas, etc. to the satisfaction of the Consultant.
	7. The Contractor shall ensure that the Contractor is to pre-construct condition or better to the satisfaction of the Contract Administrator.



DISCLAIMER:
The elements on this plan illustrate the design intent and general constructability of the proposed landscape which will support the associated development. This is to demonstrate how the canopy cover, urban design, health, and climate change objectives of the Official Plan will be met through tree planting and site design. This drawing is for City review only and is not intended for construction. Final detailed design and construction documentation is to be provided with certified 'Issued for Construction' drawings and specifications prior to construction.

1.	ISSUED FOR COMPLETENESS COMMENTS		FEB 27/25	SC
No.	REVISION		DATE	BY

114

APPROVED

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

DRAWING NAME

SOIL AND CANOPY PLAN

REV # 1

DRAWING No.

118168-L3
PL4481/IMG_1032may2025

D07-12-24-0117