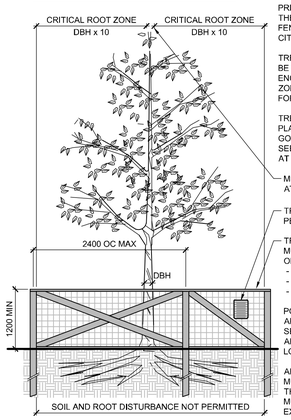
RELATED BY-LAWS:
- TREE PROTECTION BY-LAW (No. 2020-340)



REFER TO THE TREE PROTECTION NOTES, FOUND ON THE PLANS AND/ OR REPORT.

PRIOR TO ANY WORK ACTIVITY, THE PLAN AND THE INSTALLED FENCE MUST BE APPROVED BY CITY FORESTRY STAFF.

TREE PROTECTION FENCE SHALL BE ERECTED TO PROTECT AND ENCLOSE THE CRITICAL ROOT ZONE (CRZ = DBH x 10). SEE PLAN FOR LOCATION.

TREE PROTECTION TO REMAIN IN PLACE AND BE MAINTAINED IN GOOD CONDITION UNTIL THE SOD/ SEED IS STARTED; REMOVE FENCE AT THIS TIME.

MEASURED FROM OUTSIDE EDGE AT BASE OF TRUNK

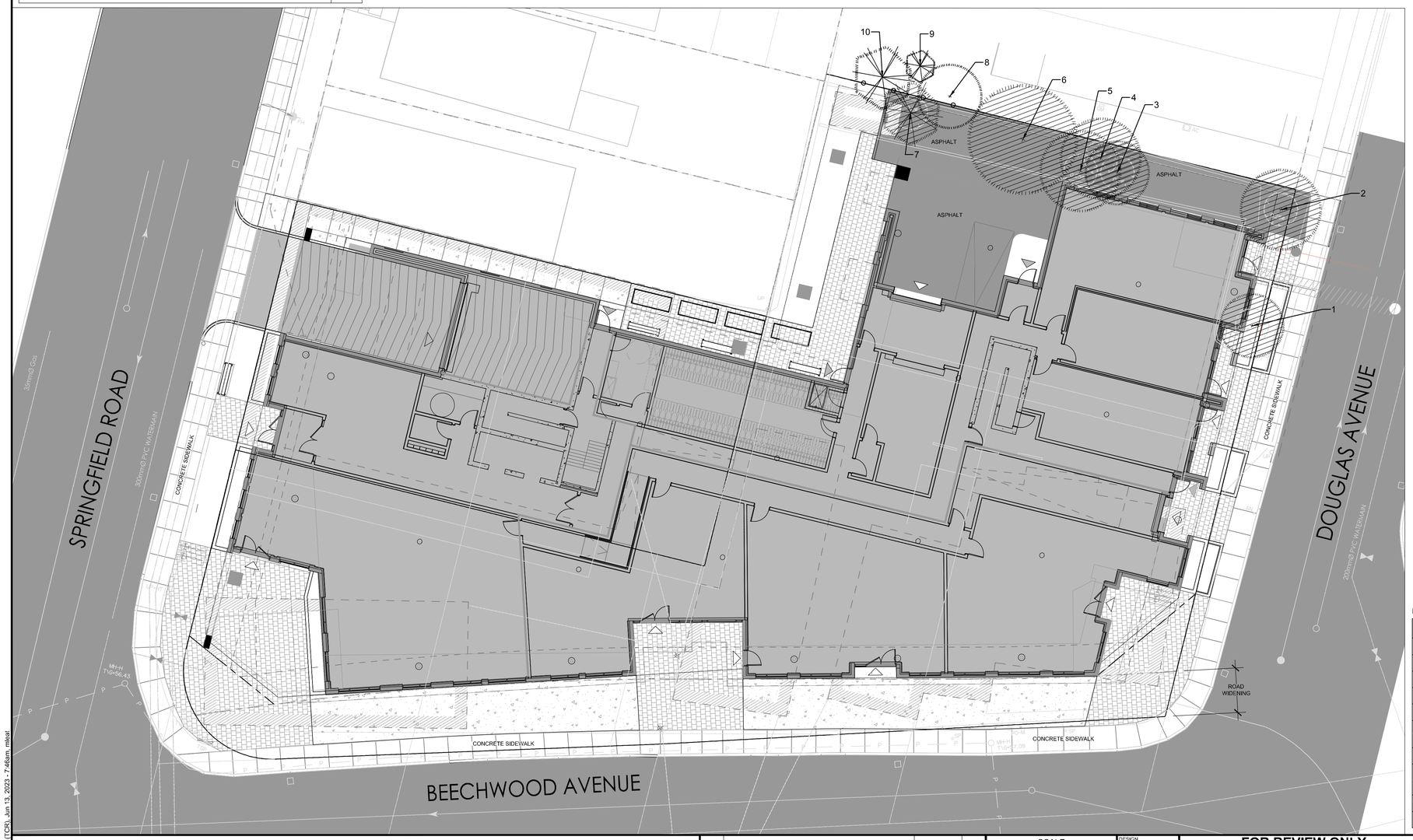
TREE PROTECTION SIGNAGE AS PER CITY STANDARD

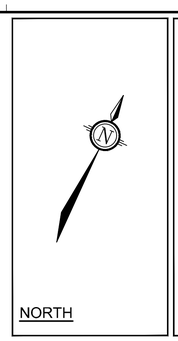
TREE PROTECTION FENCING MUST BE CONSTRUCTED OF RIGID OR FRAMED MATERIALS. eg.
- MODULOC - STEEL,
- PLYWOOD HOARDING, OR
- SNOW FENCE ON 2x4" FRAME.

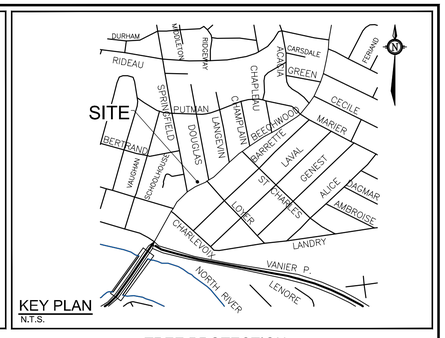
POSTS SHALL BE MAX. 2.4m APART, AND POSTS SHALL BE SECURED TO PREVENT ALTERATIONS TO THE FENCE LOCATION.

ALL SUPPORTS AND BRACING MUST BE PLACED OUTSIDE OF THE CRZ, AND INSTALLATION MUST MINIMIZE DAMAGE TO EXISTING ROOTS

TREE PROTECTION FENCE | D1







LEGEND

- EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE TO REMOVE, SYMBOL SIZE REFLECTS CRZ
- TREE PROTECTION FENCE

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. 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.).
2. Under the guidance of a Landscape Architect or 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.
3. Refer to the Tree Protection Plan for fence location. City Forestry Staff are to approve both the plan and the installed fence prior to work commencement.
4. Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
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. Only tunnel or bore when digging 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. 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.
12. Prior to work taking place, notify and consult the Landscape Architect 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.
13. 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.
14. Set up a water and fertilizing program, if trees are being affected by site works, to the satisfaction of the Landscape Architect.
15. 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 plywood, wood chips, or steel plating over the roots for protection. City Forestry Staff are to approve said measures prior to fence movement.
16. 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).

NOTE: EXISTING TREES (8, 9 AND 10) ARE OUTSIDE THE THE PROPERTY LINE. TREE LOCATIONS ARE SCHEMATIC ONLY.

No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Owner	Remarks	Recomm.
1	*Acer platanoides*	Norway Maple	23.0	2.30	F	Client	Conflict	**Remove**
2	*Acer platanoides*	Norway Maple	25.0	2.50	F	Client	Conflict	**Remove**
3	*Acer negundo*	Manitoba Maple	20.0	2.00	F	Client	Conflict	**Remove**
4	*Acer negundo*	Manitoba Maple	25.0	2.50	F	Client	Conflict	**Remove**
5	*Acer negundo*	Manitoba Maple	25.0	2.50	F	Client	Conflict	**Remove**
6	*Syringa vulgaris*	Common Lilac	21.0	2.10	P	Client	Conflict - 6 stems - 7cm ea. Dead wood evident, low vigor, suffering lack of light, leaning	**Remove**
7	*Picea glauca*	White Spruce	20.0	2.00	F	Client	Conflict	**Remove**
8	*Tilia americana*	Basswood	20.0	2.00	VP	Neighbour	Presence of insects and disease; swollen areas on trunk; leader gone, decay evident in a number of places	PROTECT
9	*Pinus strobus*	White Pine	10.0	1.00	G	Neighbour		PROTECT
10	*Picea glauca*	White Spruce	20.0	2.00	G	Neighbour		PROTECT

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.

Owner:
2317916 ONT INC.

2081 MERIVALE ROAD
Ottawa, ON K2G 1G9

NOT FOR CONSTRUCTION

No.	REVISION	DATE	BY
1.	ISSUED FOR SPC	JUN 13/23	RGJ

SCALE
1:150

1:150
0 2 4 6

DESIGN	MEL
CHECKED	RGJ
DRAWN	MEL
CHECKED	RGJ
APPROVED	RGJ

FOR REVIEW ONLY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS
RYAN G. JAMES
OALA
JUN 13/23
MEMBER

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
47 BEECHWOOD AVENUE

DRAWING NAME
TREE CONSERVATION PLAN

PROJECT No. 122186-00
REV REV # 1
DRAWING No. 122186-L1

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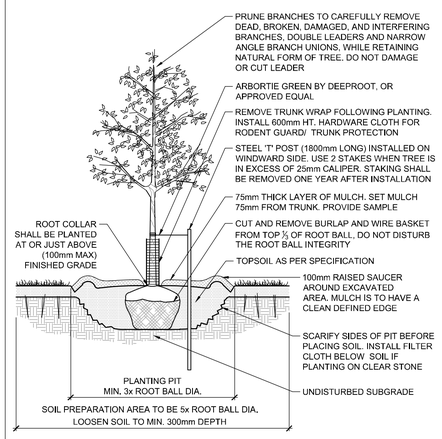
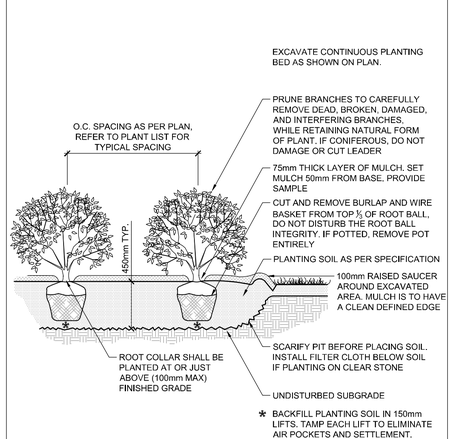
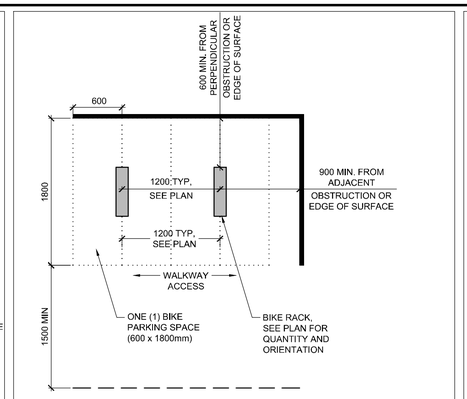


STANDARD DECIDUOUS TREE PLANTING — D2

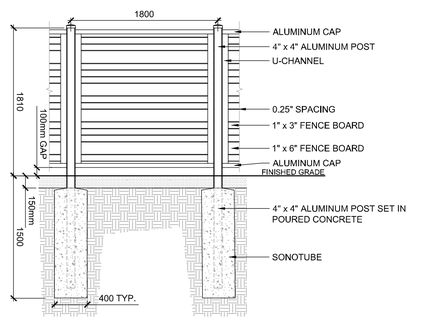


SHRUB AND PERENNIAL PLANTING — D3



NOTE:
1. FASTEN ALL SITE FURNISHINGS TO SURFACE WITH STAINLESS STEEL ANTI-VANDAL ANCHORS.

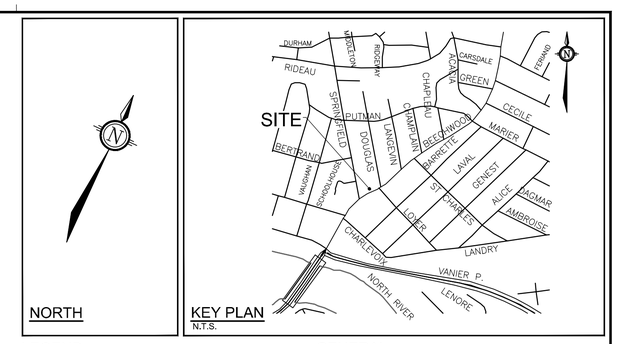
BIKE LAYOUT — D4



FENCE BOARD PATTERN: 2 - 1x3, 1 - 1x6, 3 - 1x3, 1 - 1x6

NOTE:
1. ALL WOOD TO BE CEDAR.
2. ALL CONCRETE TO BE C1 EXPOSURE, 35MPa @28 DAYS, INCLUDING 5-8% AIR ENTRAINMENT.

HORIZONTAL WOOD SCREEN FENCE — D5



LEGEND

- PROPOSED DECIDUOUS TREE
- PROPOSED SHRUBS
- PROPOSED GRASSES/PERENNIALS
- KEY ## — SPECIES (SEE PLANT LIST); QUANTITY
- PROPOSED PAVERS
- CONCRETE WALKWAY
- WOOD PRIVACY FENCE 2.0m HT

PRODUCT INFORMATION

Install products as per manufacturer specifications. Shop drawings required.

PAVERS
Edge of pavers to receive edge restraint.
- TBD by [Manufacturer]
  - Location:
  - Size:
  - Pattern:
  - Colour:

FENCE
- Horizontal Wood Privacy Fence
  - Panel Height: 2m
  - Post Cap: TBD
  - Colour. TBD

SITE FURNITURE
Fasten all site furnishing to surface with stainless steel anti-vandal anchors.

- Trio Bike Rack by Forms + Surfaces
  - Powdercoat Colour: Dark Grey Metallic Texture

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.

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.
9. 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.

RAISED PLANTERS

1. Set trees in raised planters on a bed of heavily compacted growing medium, at the bottom, to eliminate settlement.
2. Backfill around the root ball with growing medium in 150mm lifts. Tamp and water each lift to eliminate air pockets or settlement.
3. Growing medium to be:
   a. 80% commercial screened topsoil
   b. 10% peat moss or compost, and
   c. 10% perlite.
4. Cover top of the planter surface with 75mm of shredded bark mulch.

PLANT LIST

122186 - Plant List

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	COND	SPACING
Deciduous Trees						
GBG	3	*Ginkgo biloba 'Gold Spire' (BLAGON)*	Gold Spire Maidenhair Tree	150cm Ht	PT	As Shown
MST	3	*Malus 'Sugar Tyme'*	Sugar Tyme Crabapple	50mm Cal	WB	As Shown
Coniferous Shrubs						
Pmj	5	*Pinus mugo 'Jakobsen'*	Jakobsen Mugo Pine	40cm Spr	BB	As Shown
Deciduous Shrubs						
Hyr	15	*Hydrangea paniculata 'Limelight Prime'*	Limelight Prime Hydrangea	60cm Ht	PT	As Shown
Pcg	11	*Physocarpus opulifolius 'Centre Glow'*	Centre Glow Ninebark	60cm Ht	PT	As Shown
Rxo	18	*Rosa x 'Italian Ice'*	Oso Easy Italian Ice Rose	50cm Ht.	PT	As Shown
Sjd	14	*Spiraea japonica 'Double Play Candy Corn'*	Double Play Candy Corn Spirea	50cm Ht	PT	As Shown
Stc	7	*Stephanandra incisa 'Crispa'*	Cutleaf Stephanandra	40cm Ht	PT	As Shown
Perennials						
gpr	18	*Geranium 'Rozanne'*	Rozanne Cranesbill	1g	PT	As Shown
Ornamental Grasses						
cav	18	*Calamagrostis acutiflora 'Avalanche'*	Avalanche Feather Reed Grass	1g	PT	As Shown
db	18	*Deschampsia cespitosa 'Bronzeschleier'*	Bronze Veil Tufted Hair Grass	1g	PT	As Shown

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APPROVED	RGJ

FOR REVIEW ONLY

ONTARIO ASSOCIATION OF LANDSCAPE ARCHITECTS — RYAN G. JAMES — JUN. 13/23 — MEMBER

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LOCATION
CITY of OTTAWA
47 BEECHWOOD AVENUE

DRAWING NAME
LANDSCAPE PLAN

PROJECT No. 122186-00
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