

REFER TO THE TREE PROTECTION RELATED BY-LAWS: NOTES, FOUND ON THE PLANS TREE PROTECTION BY-LAW (No. 2020-340) AND/ OR REPORT. PRIOR TO ANY WORK ACTIVITY, THE PLAN AND THE INSTALLED CRITICAL ROOT ZONE FENCE MUST BE APPROVED BY CITY FORESTRY STAFF. TREE PROTECTION FENCE SHALL BE ERECTED TO PROTECT AND ENCLOSE THE CRITICAL ROOT ZONE (CRZ = DBH  $\times$  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 SOIL AND ROOT DISTURBANCE NOT PERMITTED EXISTING ROOTS

### EXISTING TREE CANOPY COVER:

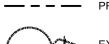
THE EXISTING TREE CANOPY COVER WAS ESTIMATED WITH THE MEASURING TOOLS ON GEOOTTAWA, WHERE THE MOST CURRENT AERIAL PHOTOGRAPHY IS FROM 2022. THE EXISTING CANOPY COVER MEASURED APPROXIMATELY 545m<sup>2</sup>. THIS IS ROUNDED UP TO 600m<sup>2</sup> TO ACCOUNT FOR TWO ADDITIONAL YEARS OF GROWTH TO 2024.

NOTE THAT TREE #23 WAS NOT INCLUDED IN THE CANOPY COVER ESTIMATE AS IT IS OFFSITE AND IT WILL NOT BE IMPACTED.

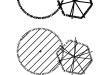
# LEGEND

— — — PROPERTY LIMIT

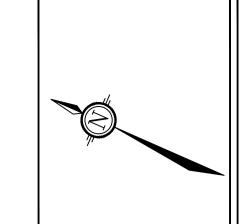
TREE PROTECTION FENCE

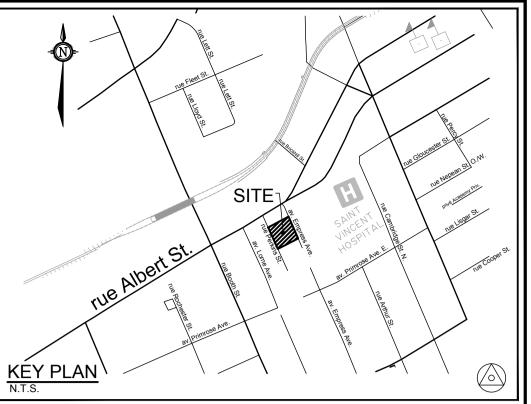


EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ



EXISTING TREE TO REMOVE, SYMBOL SIZE REFLECTS CRZ





OWNER

2317916 ONT INC.

ARCHITECT

PLANNER

NOVATECH

NOVATECH

PROJECT 1 STUDIO

OTTAWA, ON, K1N 5K5

OTTAWA, ON, K2M 1P6

OTTAWA, ON, K2M 1P6

**CIVIL ENGINEER** 

OTTAWA, ON, K2M 1P6

OTTAWA, ON, K2E 7J6

SURVEYOR

LANDSCAPE ARCHITECT

260 ST. PATRICK STREET, STE. 300

240 MICHAEL COWPLAND DRIVE, STE. 200

240 MICHAEL COWPLAND DRIVE, STE. 200

240 MICHAEL COWPLAND DRIVE, STE. 200

FARLEY, SMITH & DENIS SURVEYING LTD.

30 COLONNADE ROAD, UNIT 275

2081 MERIVALE ROAD

OTTAWA, ON, K2G 1G9

# TREE PROTECTION

NORTH

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
- Diameter at breast height (DBH) is the trunk diameter
- 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.
- 5. Do not attach any signs, notices, or posters to any tree.
- 7. Only tunnel or bore when digging within the CRZ of a tree.

- 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,
- 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.
- affected by site works, to the satisfaction of the Landscape
- 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.
  - natural areas in the City of Ottawa and trees on private property in the urban area of the City of Ottawa (2020-340).

- Arborist, erect a fence at the critical root zone (CRZ) of trees. measured at 1.3m height on the tree trunk. The CRZ is calculated as DBH x 10. Refer to the Tree Protection Fence
- 4. Do not place any material or equipment within 2m of the CRZ of any tree, including outhouses.
- 6. Do not disturb, raise, or lower the existing grade within the CRZ without approval.
- Hand work only where required within the CRZ; absolutely no machinery permitted.
- 8. Do not damage the root system, trunk, or branches, or any
- 9. Do not extend hard surface or significantly change
- landscaping. 10. Ensure that exhaust fumes from all equipment are directed

- Excavation of Root Zone.
- 14. Set up a water and fertilizing program, if trees are being
- 15. The Landscape Architect is to prescribe mitigation measures
- 16. City of Ottawa By-law: Protects municipal trees and municipal

# **EXISTING TREE INVENTORY**

Conflict Remove due to conflict with construction G Good F Fair Remove Remove due to tree helath or invasive status. P Poor PROTECT Protect trees as per contract details and specifications.

No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Owner	Remarks	Recomm.
1	Acer negundo	Manitoba Maple	68.0	6.80	Р	Owner	Rot, lean, suckers	Conflict
2	Syringa vulgaris	Common Lilac	25.0	2.50	Р	Owner	8 stems14, .09, .09, .09 .09, .08, .06, .11 - Dead wood, rot, lean, suckers	Conflict
3	Ulmus	Elm	20.0	2.00	F	Owner	crowded volunteer	Conflict
4	Syringa vulgaris	Common Lilac	15.0	1.50	Р	Owner	3 stems09, .05, .04 - Dead wood, rot, lean, suckers	Conflict
5	Acer negundo	Manitoba Maple	40.0	4.00	Р	Owner	4 stems18, .18, .13, .36 - leaning, rot, suckers	Conflict
6	Acer negundo	Manitoba Maple	28.0	2.80	Р	Owner	lower trunk damage, rot, upper limbs dead	Conflict
7	Syringa vulgaris	Common Lilac	15.0	1.50	Р	Owner	3 stems09, .05, .04 - Dead wood, rot, lean, suckers	Conflict
8	Picea glauca	White Spruce	37.0	3.70	G	Owner		Conflict
9	Thuja occidentalis	White Cedar	23.0	2.30	G	Owner		Conflict
10	Thuja occidentalis	White Cedar	25.0	2.50	G	Owner	3 stems18, .05, .25	Conflict
11	Acer negundo	Manitoba Maple	15.0	1.50	Р	Owner	invasive volunteer, leaning, rot	Conflict
12	Thuja occidentalis	White Cedar	17.0	1.70	G	Owner	volunteer next to foundation,	Conflict
13	Thuja occidentalis	White Cedar	15.0	1.50	G	Owner	volunteer next to foundation, 2 stems11, .15	Conflict
14	Acer negundo	Manitoba Maple	20.0	2.00	F	City	invasive volunteer, 2 stems17, .19	Conflict
15	Acer negundo	Manitoba Maple	15.0	1.50	Р	Owner	invasive volunteer, 2 stems14, .08	Conflict
16	Cotinus coggygria	Smokebush	13.0	1.30	VP	Owner	lean, dead wood, rot	Conflict
17	Malus	Crabapple	10.0	1.00	F	Owner	close to building, poor form	Conflict
18	Acer negundo	Manitoba Maple	20.0	2.00	F	Owner	invasive volunteer, 2 stems14, .18	Conflict
19	Rhus typhina	Staghorn Sumac	11.0	1.10	Р	Owner	volunteer, lean	Conflict
20	Acer negundo	Manitoba Maple	17.0	1.70	Р	Owner	Invasive volunteer	Conflict
21	Rhus typhina	Staghorn Sumac	20.0	2.00	Р	Owner	lean, rot, lower trunck splits	Conflict
22	Ulmus	Elm	25.0	2.50	F	Neighbor	volunteer, 3 stems15, .15, .15	Conflict
23	Gleditsia tria. 'Sunburst'	Sunburst Honeylocust	17.0	1.70	G	City		PROTECT

THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER 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.

CONSTRUCTION

				SCALE	DESIGN	
					ME	_
					CHECKED	
				1:150	RG	J
					DRAWN	
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	_			1:150	CHECKED	
				0 2 4 6	RG	J
1.	ISSUED FOR SPC	AUG 8/24	RGJ		APPROVED	
No.	REVISION	DATE	BY		RG	J

**FOR REVIEW ONLY** 

Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6

Facsimile Website

(613) 254-9643

(613) 254-5867

www.novatech-eng.com

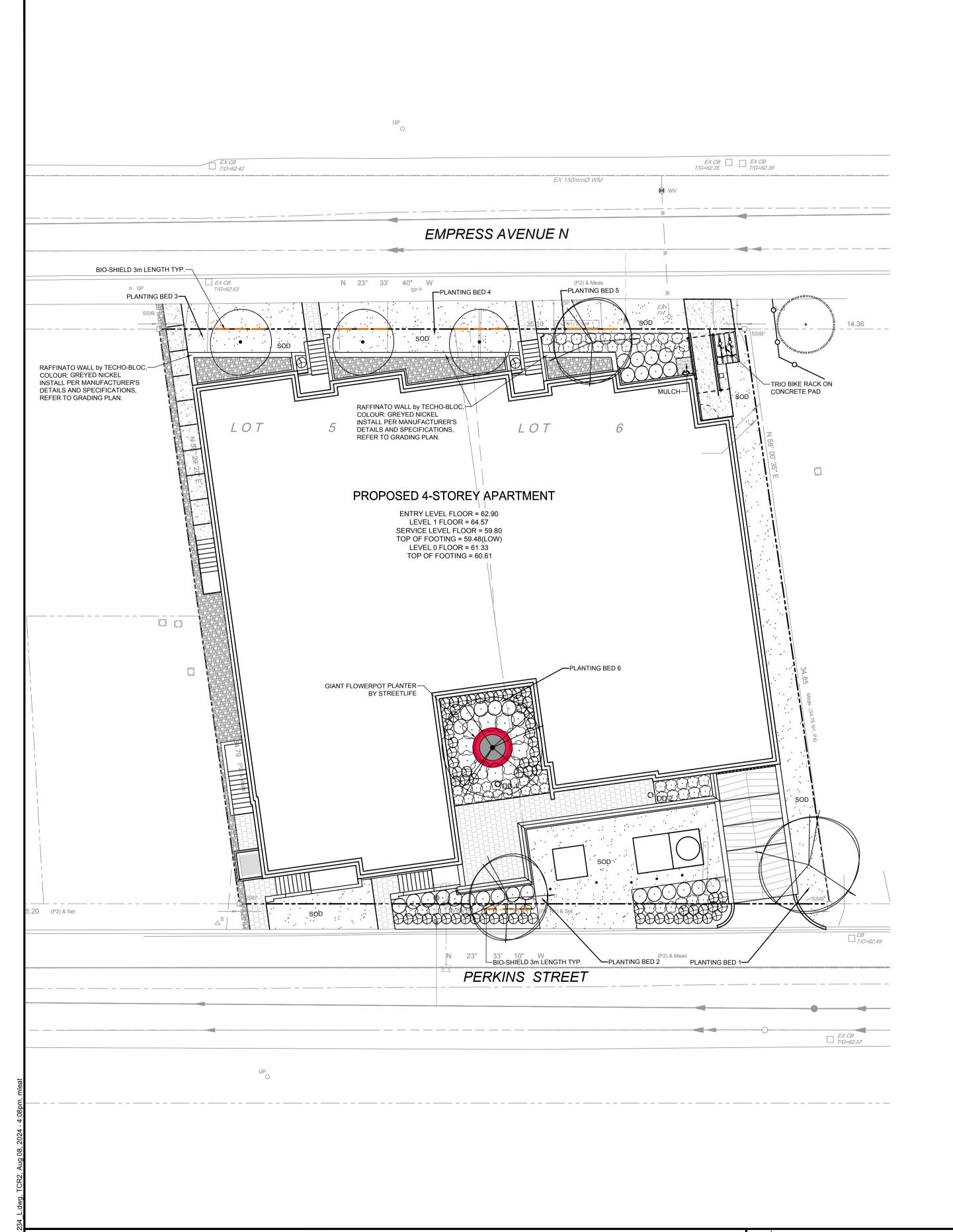
DRAWING NAME

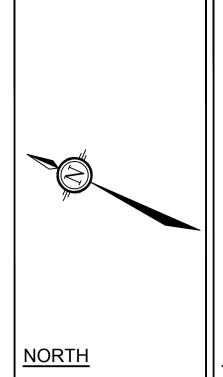
LOT 5 AND PART OF LOT 6 CITY of OTTAWA REGISTERED PLAN 7 10 EMPRESS AVE CITY OF OTTAWA

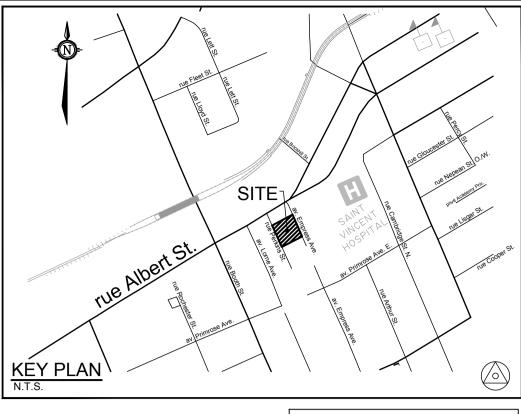
TREE CONSERVATION PLAN 1 **EXISTING CONDITION & TREE COVER** 

121234-TCR1

121234-00



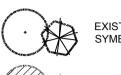




### LEGEND

— – – PROPERTY LIMIT

TREE PROTECTION FENCE



EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ



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- 9. Do not extend hard surface or significantly change landscaping.
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- 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).

### OWNER 2317916 ONT INC. 2081 MERIVALE ROAD OTTAWA, ON, K2G 1G9

ARCHITECT PROJECT 1 STUDIO 260 ST. PATRICK STREET, STE. 300

# PLANNER

OTTAWA, ON, K1N 5K5

### NOVATECH 240 MICHAEL COWPLAND DRIVE, STE. 200

NOVATECH

OTTAWA, ON, K2M 1P6 LANDSCAPE ARCHITECT

## 240 MICHAEL COWPLAND DRIVE, STE. 200 OTTAWA, ON, K2M 1P6

NOVATECH 240 MICHAEL COWPLAND DRIVE, STE. 200 OTTAWA, ON, K2M 1P6

# SURVEYOR

CIVIL ENGINEER

FARLEY, SMITH & DENIS SURVEYING LTD. 30 COLONNADE ROAD, UNIT 275 OTTAWA, ON, K2E 7J6

# PLANTING BED SOIL VOLUMES:

		OIL VOL	OIVILO.						
Planting Bed No.	Available Soil Area (sq m)	Available Soil Depth (m)	Available Soil Volume (cu m)	No. of Proposed Trees				Total No. of trees	Min. required Soil Volume total (cu m
				Columnar	Medium	Large	Conifer		
				15m³ or 9m³	25m³ or 15m³	30m³ or 18m³	25m³ or 15m³		
Planting Bed 1	20.00	1.50	30.00	0	0	1	0	1	30m³
Planting Bed 2	61.00	1.50	91.50	0	1	0	0	1	25m³
Planting Bed 3	10.00	1.50	15.00	1	0	0	0	1	15m³
Planting Bed 4	16.25	1.50	24.38	2	0	0	0	2	18m³
Planting Bed 5	17.00	1.50	25.50	0	1	0	0	1	25m³
Planting Bed 6	36.20	0.30	10.86	0	0	0	0	0	

PROPOSED TREE CANOPY COVER:

PROPOSED CANOPY COVERAGE AT MATURITY									
CIT OF BRODOED TREE	AVERAGE MATURE   CANOPY COVERAG		QUANTITY	TOTAL PROPOSED CANOPY					
SIZE OF PROPOSED TREE	SPREAD	PER TREE AT	OF TREES	COVERAGE AT MATURITY (m <sup>2</sup> )					
Deciduous - Small (<6m Ht.)	5m	20	1	20					
Deciduous - Medium (6m to 14m Ht)	10m	79	5	395					
Deciduous - Large (>14m Ht)	15m	177	1	177					
TOTAL PROPOSED CANODY CO.	500								

TOTAL PROPOSED CANOPY COVERAGE (m²): 1. Area of a circle =  $(r \times r) \times \pi$ 

2. Canopy coverage per tree calculation: (average mature spread/2) x (average mature spread/2) x  $\pi$ 3. Canopy calculations do not include Tree 23 because it is on the neighbouring property.

> LOCATION LOT 5 AND PART OF LOT 6 CITY of OTTAWA **REGISTERED PLAN 7** 10 EMPRESS AVE CITY OF OTTAWA

DRAWING NAME

TREE CONSERVATION PLAN 2

121234-00

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NOT FOR CONSTRUCTION

SCALE ME 1:150 RG MEL ISSUED FOR SPC AUG 8/24 DATE REVISION

**FOR REVIEW ONLY** 

Suite 200, 240 Michael Cowpland Drive Ottawa, Ontario, Canada K2M 1P6

(613) 254-9643 Facsimile

Website

PROPOSED DEVELOPMENT & TREE COVER (613) 254-5867 www.novatech-eng.com

121234-TCR2