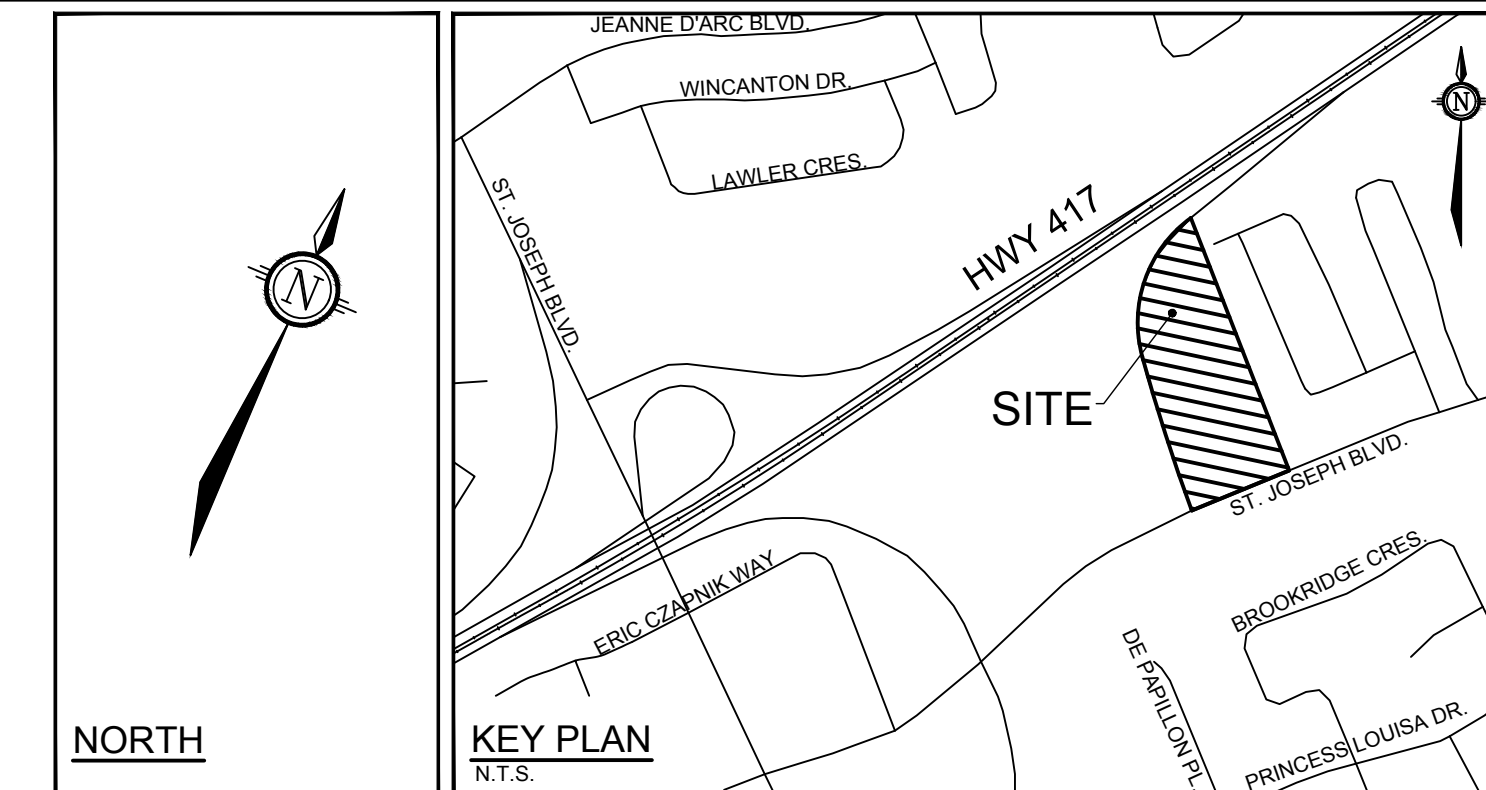


**NOVATECH DETAILS**

Found on Sheet TCR1.

D1. Tree Protection Fence



**LEGEND**

- 3-D1 DETAIL SHEET # NOVATECH OR CITY  
EG. L1, L2, ETC. DETAIL NUMBER SEE LIST FOR CODE
- PROPERTY LIMIT
- EXISTING TREE TO REMAIN,  
SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE TO REMOVE,  
SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE GROUP TO REMOVE,  
SIZE REFLECTS CRZ
- TREE PROTECTION FENCE
- LIMIT OF UNDERGROUND STRUCTURE

**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. Reinstatement 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**

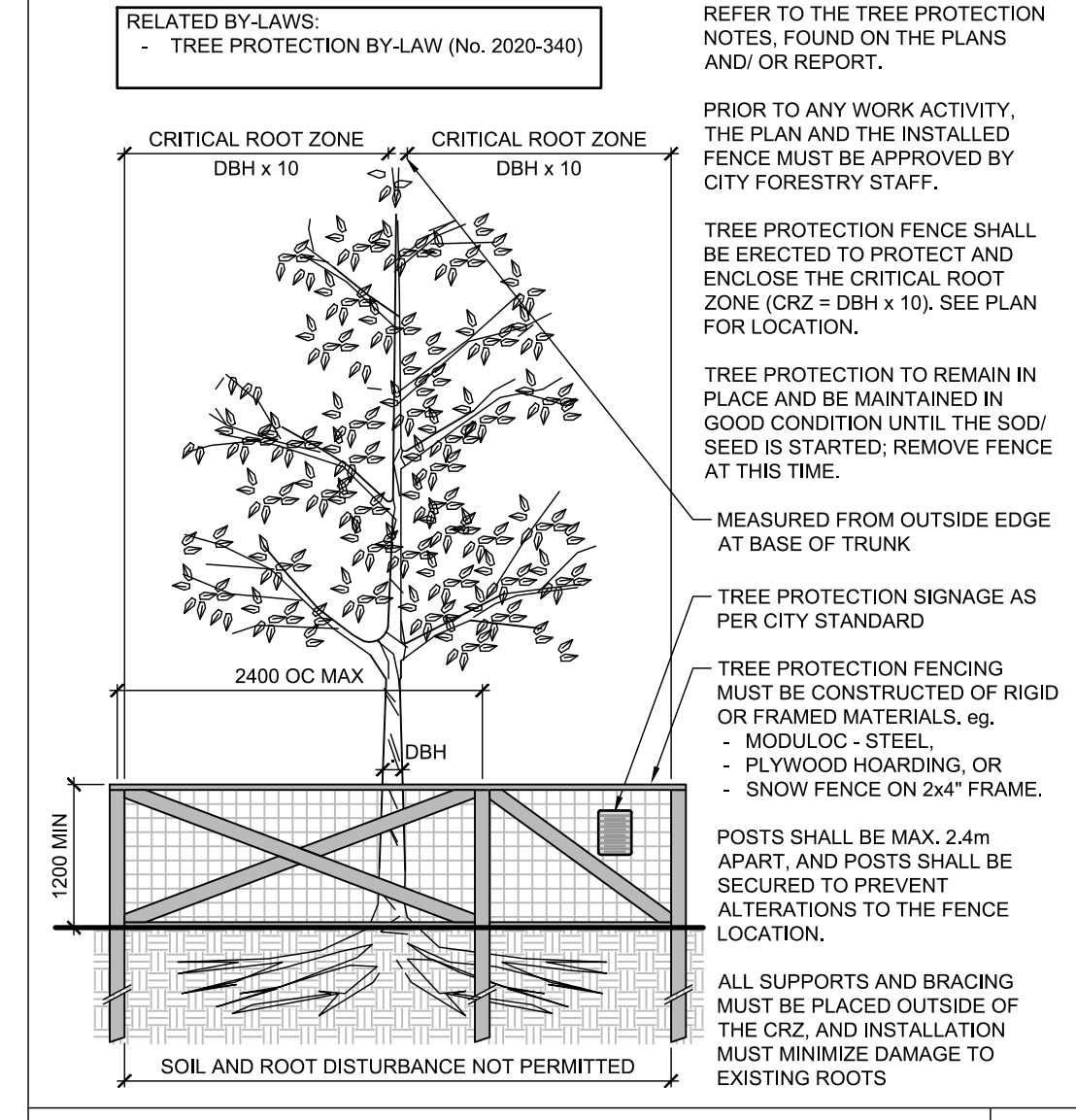
Implement the following protection measures for retained trees, both on site and on adjacent sites, prior to any work activity, including tree removal. Maintain tree protection fence in place and in good condition for the duration of site works:

1. 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).

**EXISTING TREE INVENTORY**

No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Client	Remarks	Recomm.
1	<i>Acer freemanii</i>	Freeman Maple	17.0	1.70	Good	Client		Remove
2	<i>Pinus nigra</i>	Austrian Pine	20.0	2.00	Good	City		PROTECT
3	<i>Populus tremuloides</i>	Trembling Aspen	12.0	1.20	Good	City		Remove
4	<i>Pinus nigra</i>	Austrian Pine	14.0	1.40	Dead	City	Dead branches, stress, dieback	Remove
5	<i>Ulmus americana</i>	White Elm	11.0	1.10	Good	Client		Remove
6	<i>Ulmus americana</i>	White Elm	13.0	1.30	Fair	Client		Remove
7	<i>Quercus macrocarpa</i>	Bur Oak	45.0	4.50	Good	Client	VC, DB, good specimen, witches broom	Remove
8	<i>Tilia americana</i>	Bass Wood	15.0	1.50	Good	Client		Remove
9	<i>Acer saccharum</i>	Sugar Maple	16.0	1.60	Good	Client		Remove
10	<i>Quercus macrocarpa</i>	Bur Oak	13.0	1.30	Good	Client		Remove
11	<i>Quercus macrocarpa</i>	Bur Oak	14.0	1.40	Good	Client		Remove
12	<i>Quercus macrocarpa</i>	Bur Oak	12.0	1.20	Good	Client		Remove
13	<i>Quercus macrocarpa</i>	Bur Oak	52.0	5.20	Good	Client	VC, DB, good specimen, witches broom	Remove

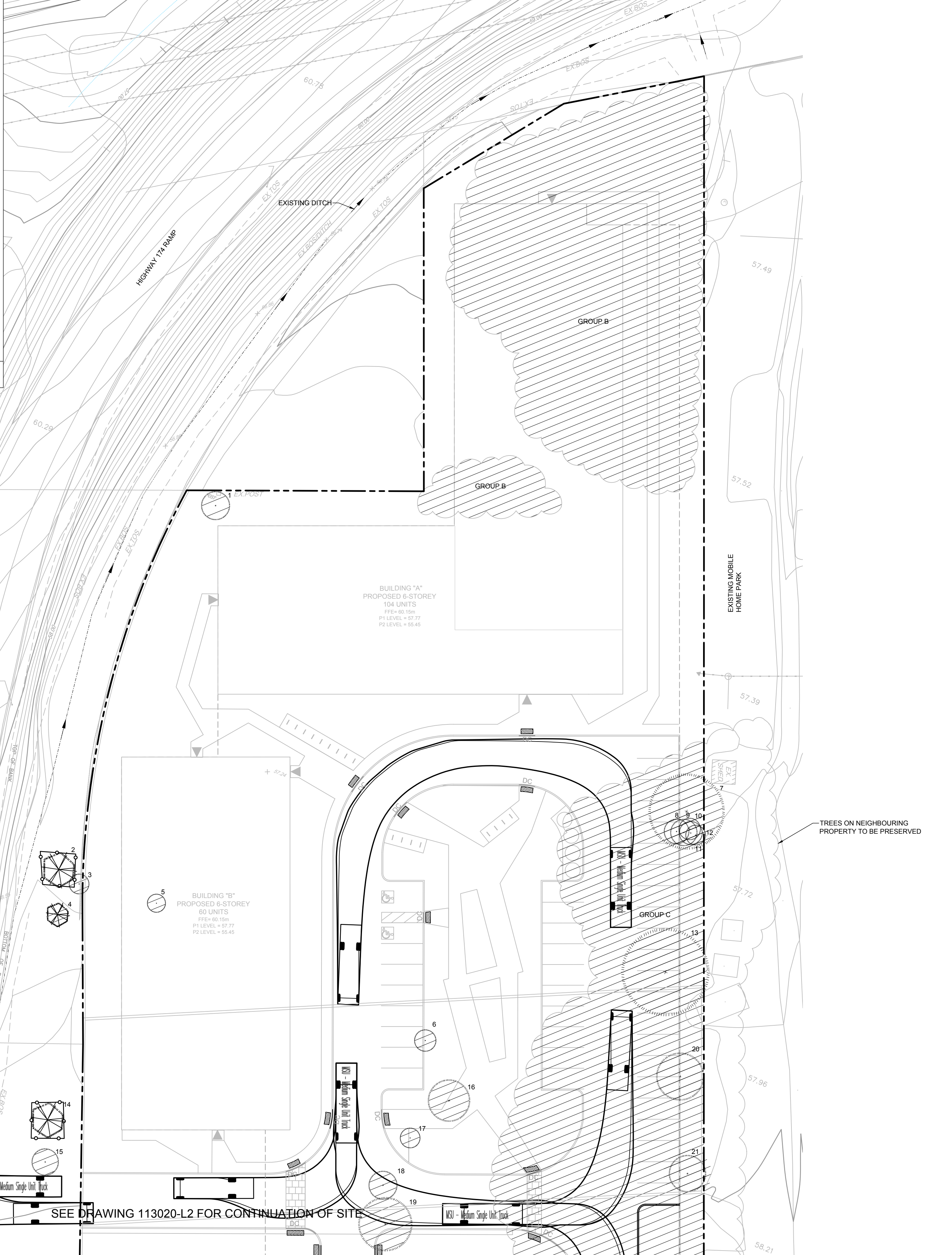
Key	Botanical Name	Common Name	% Compos.	DBH Min-Max	DBH Avg	Owner	Remarks	Recomm.
<b>Area A</b>								
A	<i>Acer negundo</i>	Manitoba Maple Hedge	85%	5-15cm	0.5-1.5m	Client	Covered in grape vine	Remove
A	<i>Fraxinus sp.</i>	White Ash	10%	5-10cm	0.5-1.0m	Client	Emerald Ash Borer, poor	Remove
A	<i>Rhus typhina</i>	Staghorn sumac	5%	2-5cm	0.2-0.5m	Client		Remove
<b>Area B</b>								
B	<i>Ulmus americana</i>	White Elm	20%	5-20cm	0.5-2.0m	Client	Dead, witches broom	Remove
B	<i>Populus sp.</i>	White Elm	80%	5-25cm	0.5-2.5m	Client	Young growth	Remove
<b>Area C</b>								
C	<i>Ulmus americana</i>	White Elm	15%	5-16cm	0.5-1.6m	Client	Dead, witches broom	Remove
C	<i>Populus sp.</i>	Aspen	30%	5-20cm	0.5-2.0m	Client	Young growth	Remove
C	<i>Fraxinus sp.</i>	Ash	15%	5-18cm	0.5-1.8m	Client	Dead, emerald ash borer, witches broom	Remove
C	<i>Tilia americana</i>	Bass Wood	20%	5-30cm	0.5-3.0m	Client	Mostly good condition	Remove
C	<i>Acer saccharum</i>	Sugar Maple	10%	5-20cm	0.5-2.0m	Client	Mostly good condition	Remove
C	<i>Quercus macrocarpa</i>	Bur Oak	10%	5-50cm	0.5-5.0m	Client	Mostly good condition	Remove



**TREE PROTECTION FENCE**

D1

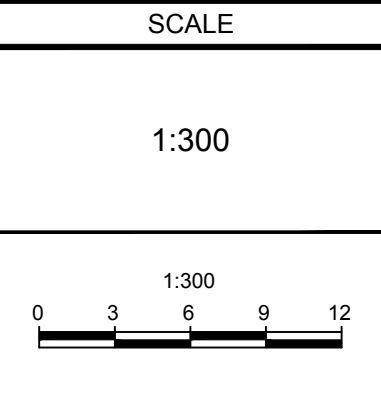
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SEE DRAWING 113020-L2 FOR CONTINUATION OF SITE

**OWNER INFORMATION**  
8417709 CANADA INC.  
430 boulevard de l'hôpital, Suite 310  
Gatineau, QC J8V 1T7  
NAME: PAUL-ANDRÉ CHARBONNEAU  
PHONE: (819) 955-8032  
EMAIL: paul-andre@chartro.ca

No.	REVISION	DATE	BY
2	RE-ISSUED FOR SPA	DEC. 24/24	RGJ
1	ISSUED FOR SPA	JUL. 19/24	RGJ



DESIGN	KEYW
CHECKED	RGJ
DRAWN	KEYW
CHECKED	RGJ
APPROVED	RGJ

**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

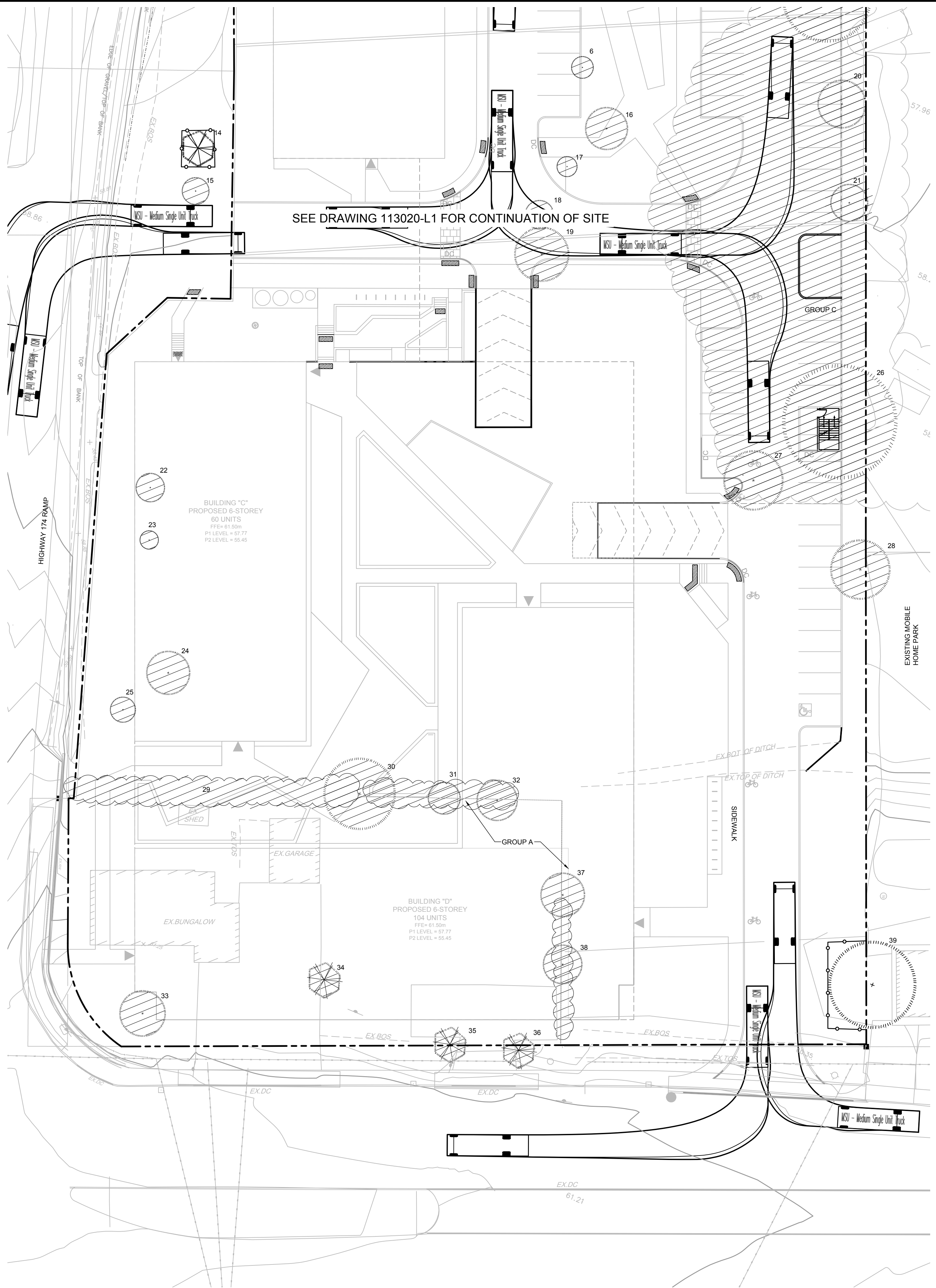
LOCATION  
CITY OF OTTAWA  
CHARTO LANDS -3459 & 3479 ST. JOSEPH BOULEVARD

DRAWING NAME  
**TREE CONSERVATION PLAN**

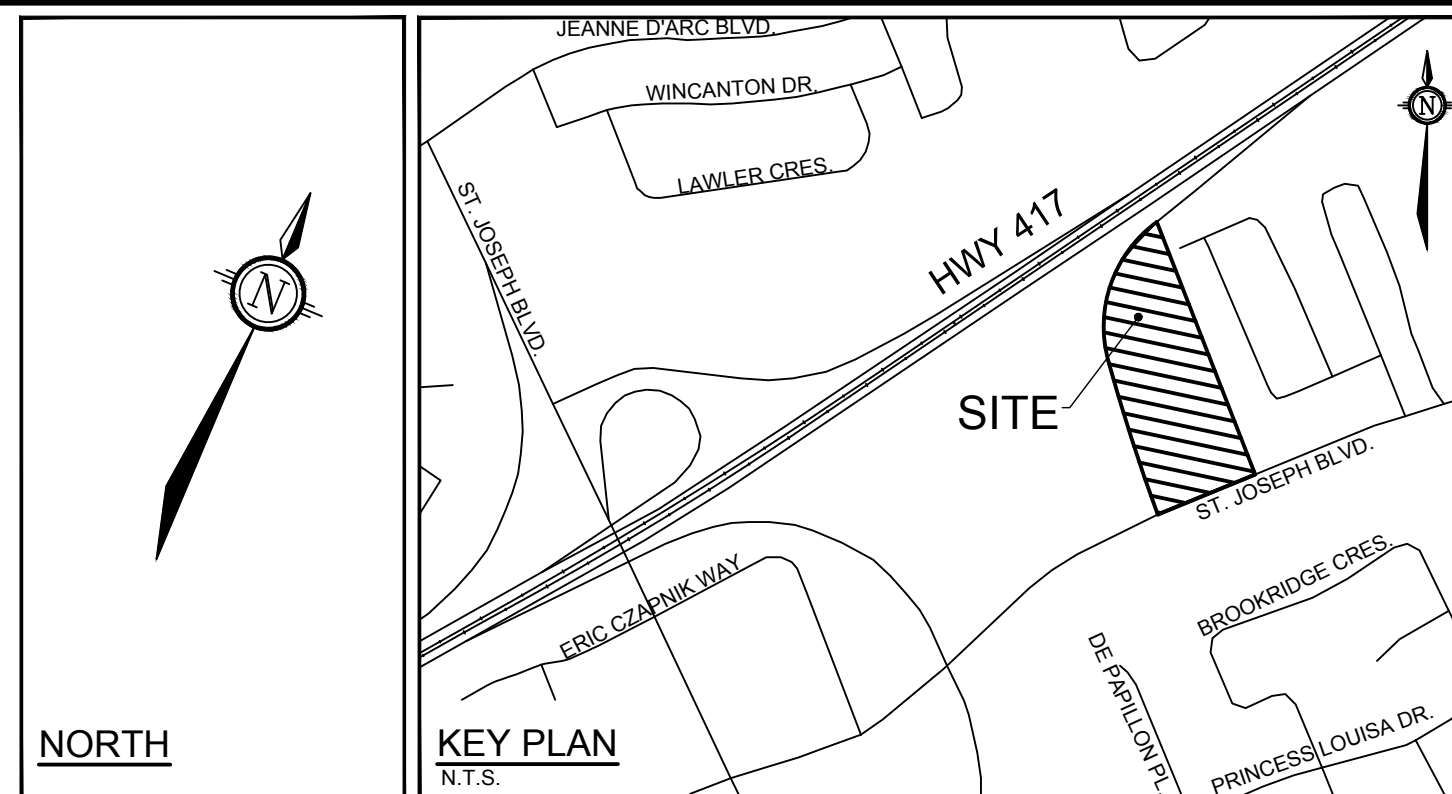
PROJECT No. 113020-00  
REV # 2  
DRAWING No. 113020-TCR1

Chartro/PA-AM/2024/11/15/2024\_TCR1\_Dwg/23-2024-1.035m.mxd





**NOVATECH DETAILS**  
 Found on Sheet TCR1.  
 D1. Tree Protection Fence



**LEGEND**

- 3-D1 DETAIL SHEET # NOVATECH OR CITY  
EG. L1, L2, ETC. DETAIL NUMBER SEE LIST FOR CODE
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- EXISTING TREE TO REMAIN, SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE TO REMOVE, SYMBOL SIZE REFLECTS CRZ
- EXISTING TREE GROUP TO REMOVE, SIZE REFLECTS CRZ
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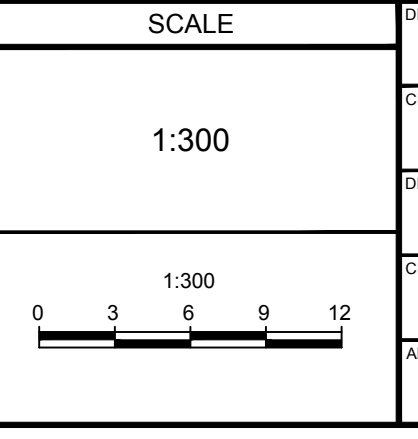
No.	Botanical Name	Common Name	DBH (cm)	CRZ (m)	Condition	Client	Remarks	Recomm.
14	<i>Pinus strobus</i>	White Pine	18.0	1.80	Good	City		PROTECT
15	<i>Fraxinus sp.</i>	Ash	16.0	1.60	Dead	City	Suckering growth, main trunk is dead	Remove
16	<i>Ulmus americana</i>	White Elm	25.0	2.50	Fair	Client		Remove
17	<i>Ulmus americana</i>	White Elm	12.0	1.20	Fair	Client		Remove
18	<i>Ulmus americana</i>	White Elm	17.0	1.70	Fair	Client		Remove
19	<i>Ulmus americana</i>	White Elm	32.0	3.20	Fair	Client	multistem	Remove
20	<i>Quercus macrocarpa</i>	Bur Oak	31.0	3.10	Good	Client		Remove
21	<i>Quercus macrocarpa</i>	Bur Oak	22.0	2.20	Good	Client		Remove
22	<i>Fraxinus sp.</i>	Ash	17.0	1.70	Dead	Client	Suckering growth, main trunk is dead	Remove
23	<i>Fraxinus sp.</i>	Ash	11.0	1.10	Fair	Client		Remove
24	<i>Fraxinus sp.</i>	Ash clump	26.0	2.60	Dead	Client	Suckering growth, main trunk is dead	Remove
25	<i>Ulmus americana</i>	White Elm	15.0	1.50	Good	Client		Remove
26	<i>Ulmus americana</i>	White Elm	67.0	6.70	Good	Client	Multi-stem, half dead, vetches broom	Remove
27	<i>Ulmus americana</i>	White Elm	35.0	3.50	Dead	Client	Dead	Remove
28	<i>Acer negundo</i>	Manitoba Maple	27.0	2.70	Poor	Shared	Sweep	Remove
29	<i>Thuja occidentalis hedge</i>	Cedar Hedge	20.0	2.00	Fair	Client		Remove
30	<i>Acer negundo</i>	Manitoba Maple	42.0	4.20	Fair	Client	Rot, multistem, lean 45, low vigour, VC, IB	Remove
31	<i>Acer negundo</i>	Manitoba Maple	19.0	1.90	Good	Client		Remove
32	<i>Acer negundo</i>	Manitoba Maple	24.0	2.40	Good	Client		Remove
33	<i>Malus sp.</i>		27.0	2.70	Poor	Client	Rot, lean, suckers	Remove
34	<i>Thuja occidentalis</i>		17.0	1.70	Good	Client		Remove
35	<i>Thuja sp.</i>	Cedar Bush			Fair	Shared	Manitoba maple growing through it	Remove
36	<i>Thuja sp.</i>	Cedar Bush	8.0	0.80	Fair	Shared		Remove
37	<i>Acer negundo</i>	Manitoba Maple	26.0	2.60	Good	Client		Remove
38	<i>Acer negundo</i>	Manitoba Maple	23.0	2.30	Good	Client		Remove
39	<i>Acer negundo</i>	Manitoba Maple	51.0	5.10	Good	Neighbour	Healthy	PROTECT

Key	Botanical Name	Common Name	% Compos.	DBH Min-Max	DBH Avg	Owner	Remarks	Recomm.
<b>Area A</b>								
A	<i>Acer negundo</i>	Manitoba Maple Hedge	85%	5-15cm	0.5-1.5m	Client	Covered in grape vine	Remove
A	<i>Fraxinus sp.</i>	White Ash	10%	5-10cm	0.5-1.0m	Client	Emerald Ash Borer, poor	Remove
A	<i>Rhus typhina</i>	Staghorn sumac	5%	2-5cm	0.2-0.5m	Client		Remove
<b>Area B</b>								
B	<i>Ulmus americana</i>	White Elm	20%	5-20cm	0.5-2.0m	Client	Dead, vetches broom	Remove
B	<i>Populus sp.</i>	White Elm	80%	5-25cm	0.5-2.5m	Client	Young growth	Remove
<b>Area C</b>								
C	<i>Ulmus americana</i>	White Elm	15%	5-16cm	0.5-1.6m	Client	Dead, vetches broom	Remove
C	<i>Populus sp.</i>	Aspen	30%	5-20cm	0.5-2.0m	Client	Young growth	Remove
C	<i>Fraxinus sp.</i>	Ash	15%	5-18cm	0.5-1.8m	Client	Dead, emerald ash borer, vetches broom	Remove
C	<i>Tilia americana</i>	Bass Wood	20%	5-30cm	0.5-3.0m	Client	Mostly good condition	Remove
C	<i>Acer saccharum</i>	Sugar Maple	10%	5-20cm	0.5-2.0m	Client	Mostly good condition	Remove
C	<i>Quercus macrocarpa</i>	Bur Oak	10%	5-50cm	0.5-5.0m	Client	Mostly good condition	Remove

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.

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1.	ISSUED FOR SPA	JUL. 19/24	RGJ



DESIGN	KEY
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DRAWN	RGJ
CHECKED	RGJ
APPROVED	RGJ

**FOR REVIEW ONLY**



**NOVATECH**  
 Engineers, Planners & Landscape Architects  
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 Ottawa, Ontario, Canada K2M 1P6  
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 Facsimile (613) 254-5867  
 Website www.novatech-eng.com

LOCATION  
 CITY OF OTTAWA  
 CHARTO LANDS -3459 & 3479 ST. JOSEPH BOULEVARD  
 DRAWING NAME  
**TREE CONSERVATION PLAN**  
 PROJECT No. 113020-00  
 REV # 2  
 DRAWING No. 113020-TCR2

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