



- 1. INSTALL TREE PROTECTION FENCING IN LOCATIONS INDICATED IN CONTRACT DRAWINGS.
- 2. WHERE POSSIBLE, TREE PROTECTION FENCING LOCATION TO BE AT OR OUTSIDE THE DRIPLINE OF PROTECTED TREES, WHICH IS DEFINED AS THE CIRCLE THAT COULD BE DRAWN ON THE SOIL AROUND A TREE DIRECTLY UNDER THE TIPS OF ITS OUTERMOST AND WIDEST BRANCHES.
- ON-SITE BY THE LANDSCAPE ARCHITECT BEFORE COMMENCEMENT OF TREE CLEARING OPERATIONS.
- 2. AS PART OF THE TREE REMOVAL OPERATION ALL STEMS, LIMBS AND STUMPS SHOULD BE REMOVED FROM THE SITE.
- 3. THE ROOT SYSTEMS FROM ALL EXISTING VEGETATION TO BE RETAINED SHALL BE PROTECTED FROM DAMAGE, COMPACTION AND CONTAMINATION RESULTING FROM CONSTRUCTION.
- 10. NO STORAGE OF MATERIALS OR EQUIPMENT WITHIN THE TREE PROTECTION ZONE IS PERMITTED. NO EQUIPMENT OR MATERIALS SHALL HIT OR DAMAGE TREES DESIGNATED TO BE
- 11. NO ROOT CUTTING OR MOVEMENT OF VEHICLES IS PERMITTED IN THE TREE PROTECTION ZONE.
- 12. FENCE BARRIERS MUST REMAIN IN FUNCTIONAL CONDITION UNTIL ALL SITE WORKS INCLUDING LANDSCAPING ARE
- 13. THE CONTRACTOR SHALL REMOVE TREE PROTECTION FENCING AFTER THE COMPLETION OF ALL SITE WORKS FOLLOWING WRITTEN APPROVAL BY THE LANDSCAPE

2.0 HAZARD TREE MANAGEMENT

- 1. SELECTIVE REMOVAL OF HAZARDOUS TREES WITHIN THE TREE PROTECTION ZONE WILL BE DETERMINED ON-SITE BY THE LANDSCAPE ARCHITECT.
- 2. WHERE REMOVALS ARE REQUIRED, THE FELLING ZONE SHOULD ALLOW THE TREES TO FALL WITHOUT DAMAGE TO EXISTING STRUCTURES, OR TREES (BRANCHES & TRUNKS) TO
- 3. SHOULD NO CLEAR FELLING ZONE EXIST, THE TREE SHALL BE CUT INCREMENTALLY FROM TOP TO BOTTOM AND LOWERED TO THE GROUND WITH ROPES.
- 4. ANY ROOTS THAT BECOME EXPOSED DURING CONSTRUCTION SHALL BE CLEANLY CUT.

N.T.S.

ID No.	Botanical Name	Common Name	DBH	CR	TI	CS	CV	CDB	TPZ	Action	Comments
1	Populus balsamifera	Balsam Poplar	55	4	F	F/P	F	25	4	Remove	Dead branches in canopy
2	Acer negundo	Boxelder Maple	55,10	6	р	р	р	25	6	Remove	Multi-stem, leaning
3	Ulmus americana	American Elm	19	3	F	F	F		3	Remove	One-sided, leaning
4	Acer saccharum	Sugar Maple	15	3	Р	Р	Р		3	Remove	One-sided
5	Ulmus americana	American Elm	17	3	F	F/P	F		3	Remove	One-sided, leaning
6	Betula papyrifera	Paper Birch	23 & under	5	F	Р	F		5	Remove	Multi-stem (5 stems)
7	Tilia americana	Basswood	50	3	F/P	F	F		3	Remove	Leaning
8	Acer saccharum	Sugar Maple	24,25	4	F	F	F		4	Remove	Codominant at base
9	Tilia americana	Basswood	18 - 32	6	F	F/P	F		6	Remove	Clumps of 6
10	Acer saccharum	Sugar Maple	23	3	F/G	F	F		3	Remove	
11	Acer saccharum	Sugar Maple	22	3	F/G	F	F		3	Remove	
12	Acer saccharum	Sugar Maple	27	4	Р	Р	Р		4	Remove	
13	Prunus spp.	Cherry Spp.	17	2	Р	Р	Р		2	Retain	One-sided. No leader
14	Tilia americana	Basswood	34	5	Р	Р	Р	10	5	Retain	Deformed crown. No leader
15	Populus balsamifera	Balsam Poplar	61.5	3	Р	Р	Р	75	3	Remove	Crown dead
16	Acer saccharum	Sugar Maple	18	3	Р	F	F	15	3	Remove	Trunk deformity
17	Acer saccharum	Sugar Maple	23	3	F	F	F		3	Remove	
18	Quercus rubra	Red Oak	60	8	F/P	F/P	F	25	8	Remove	Dead branches, trunk split at 1.4m
19	Acer saccharum	Sugar Maple	42	5	F	F/P	F/P	30	5	Remove	Dead branches
20	Prunus spp.	Cherry Spp.	28	3	Р	Р	Р		3	Remove	
21	Tilia americana	Basswood	54	5	F	F	F/P	25	5	Retain	Dead branches in canopy
22	Acer saccharum	Sugar Maple	18	3	F	F	F	30	3	Retain	One-sided. Dead leader
23	Ostrya virginiana	Ironwood	22	4	F/P	F	F		4	Retain	Defect on trunk flare
24	Acer saccharum	Sugar Maple	32	4	F	F	F		4	Retain	One-sided
25	Thuja occidentalis 'Nigra'	Black Cedar Hedge	~10	1	G	F	G		1	Retain	Cedar Hedge, 14 stems, on property line, shared ownership
26	Picea pungens	Colorado Blue Spruce	~30	4	G	F	G		4	Retain	On property line, shared ownership

	Legend	
DBH	Diameter at Breast Height	cm
CR	Canopy Radius	m
TI	Trunk Integrity	G, F, P
CS	Crown Structure	G, F, P
CV	Crown Vigor	G, F, P
CDB	Crown Die Back	%
TPZ	Tree Protection Zone	m
	~ = estimate G = Good, F = Fair, P = Poor	

TREE INVENTORY TABLE - R.O.W. LANDS

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TREE PROTECTION FENCE

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PRIOR TO CONSTRUCTION. THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER

PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS.

NO	TES:
1.	ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED

TREE PROTECTION FENCING TO BE

AT OR OUTSIDE DRIPLINE OF PROTECTED TREES, WHERE

— HEAVY-DUTY SILT FENCE -SEE ENG. DWGS.

LIMIT OF GRADING

POSSIBLE

TREE PROTECTION ZONE

No.	ISSUE	DATE: YYYY/MM/DD
0.	ISSUED FOR REVIEW	2024/11/05
		i





TREE INVENTORY/RETENTION PLAN R.O.W. LANDS



TIP-1



PROPERTY BOUNDARY — — — — LOT BOUNDARY EDGE OF VEGETATION TO BE RETAINED AND PROTECTED TREE PROTECTION FENCE EXISTING FIRE HYDRANT EXISTING LIGHT STANDARD FIRE HYDRANT - SEE ENG. DWGS SIGN - SEE ENG. DWGS. UNDERGROUND SERVICES _SEE ENG. DWGS — · — · EXISTING SWALE OR DITCH EXISTING DECIDUOUS TREE TO BE REMOVED EXISTING DECIDUOUS TREE TO BE RETAINED OR PROTECTED EXISTING CONIFEROUS TREE TO BE RETAINED OR PROTECTED

LEGEND

PROPERTY

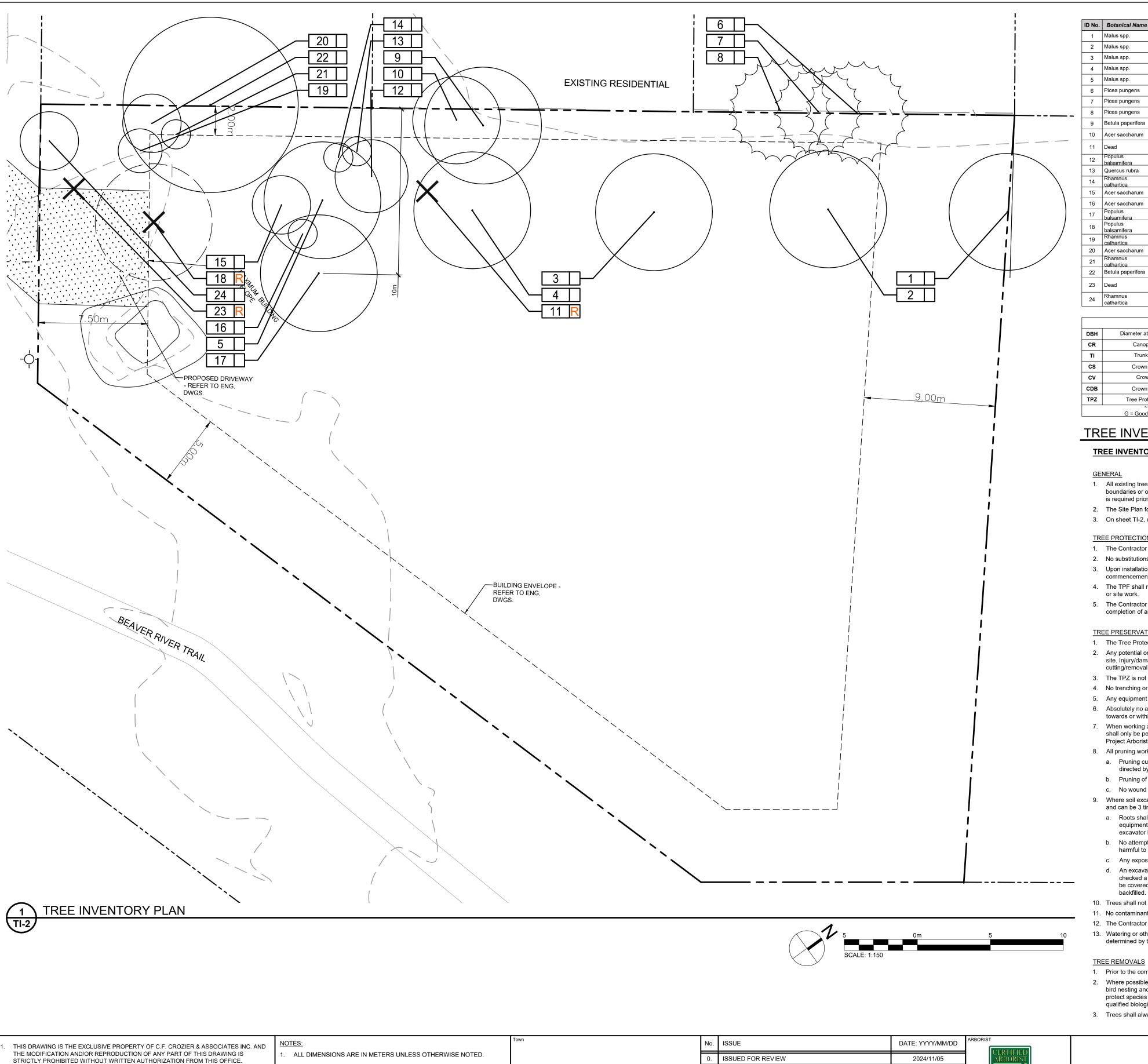
KEY PLAN SCALE: N.T.S.

1. FOR TREE INVENTORY NOTES, REFER TO DRAWING TI-2.

TREE TO BE PRESERVED

TREE TO BE REMOVED

TREE IDENTIFICATION TAGS



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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO C.F. CROZIER & ASSOCIATES INC.

THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER

ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE

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PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT.

CONTRACTOR PRIOR TO CONSTRUCTION.

PRIOR TO CONSTRUCTION.

DO NOT SCALE DRAWINGS.

ID No.	Botanical Name	Common Name	DBH	CR	TI	cs	cv	CDB	TPZ	Comments	
1	Malus spp.	Apple spp.	40	4	Р	F/P	Р		4	Large cavities in trunk. Orchard tree	
2	Malus spp.	Apple spp.	34	4	Р	F/P	Р		4	Orchard tree. Large cavity and decay in trunk	
3	Malus spp.	Apple spp.	37	4	Р	F/P	Р		4	Wounds in trunk. Orchard tree	
4	Malus spp.	Apple spp.	40	4	Р	F/P	Р		4	Wounds in trunk. Orchard tree	
5	Malus spp.	Apple spp.	33	4	Р	F/P	Р		4	Wounds and decay on trunk. Orchard tree	
6	Picea pungens	Colorado spruce	38	3.5	G	G	G/F		3.5	On property line	
7	Picea pungens	Colorado spruce	31	3	G	G	G/F		3	On property line	
8	Picea pungens	Colorado spruce	40	3.5	G	G	G/F		3.5	On property line	
9	Betula paperifera	Paper birch	24	4	G	G	G		4		
10	Acer saccharum	Sugar maple	22	3	G	G/F	G		3		
11	Dead	Dead	0	0					0	Top of tree removed at 3 meters. Only the stem remains. Recommend removing standing dead tree.	
12	Populus balsamifera	Balsam poplar	14	2.5	F	F	F		2.5	Adjacent to more poplars	
13	Quercus rubra	Red oak	9	1	G	G	G		1		
14	Rhamnus cathartica	Common buckthorn	6	1	F	F	F		1	buckthorn	
15	Acer saccharum	Sugar maple	12	2	G	G	G		2		
16	Acer saccharum	Sugar maple	6	1	G	G	G		1		
17	Populus balsamifera	Balsam poplar	21	4					4		
18	Populus balsamifera	Balsam poplar	46	4	F/P	F	F/P		4	leaning to the south. Adjacent to more poplars. Recommend removing due to condition and proposed driveway.	
19	Rhamnus cathartica	Common buckthorn	9	1.5	F	F	F		1.5	Invasive	
20	Acer saccharum	Sugar maple	12	2					2		
21	Rhamnus cathartica	Common buckthorn	8	1	F	F	F		1	Invasive	
22	Betula paperifera	Paper birch	~30	6	G/F	G/F	G		6	5 stems all roughly the same size. On the property line	
23	Dead	Dead	0	0					0	Only the stump remains. Recommend removing standing dead tree.	
24	Rhamnus cathartica	Common buckthorn	13	2	F	F	F		2	Invasive	

	Legend								
DBH	DBH Diameter at Breast Height								
CR	Canopy Radius	m							
TI	Trunk Integrity	G, F, P							
cs	Crown Structure	G, F, P							
cv	Crown Vigor	G, F, P							
CDB	Crown Die Back	%							
TPZ	TPZ Tree Protection Zone								
	~ = estimate G = Good, F = Fair, P = Poor								

TREE INVENTORY TABLE - PRIVATE LANDS

TREE INVENTORY NOTES:

- 1. All existing trees at property boundaries and on adjacent properties shall be preserved and protected. Where trees which that are located at shared property boundaries or on adjacent properties are identified by this plan to sustain injury or require removal, the Owner of the adjacent property's written permission is required prior to any construction or removals works commence.
- 2. The Site Plan for the future single detached dwelling has not been prepared and subject to approval via building permit.
- 3. On sheet TI-2, only trees 10m from the shared property boundary line have been inventoried.

TREE PROTECTION FENCING

- 1. The Contractor shall install Tree Protection Fencing (TPF) to protect trees identified for preservation.
- 2. No substitutions of materials, products or quantities will be accepted without the prior written permission of the Project Arborist. 3. Upon installation of the TPF, the Contractor shall contact the Project Arborist to review and approve the fencing and location(s) in writing prior to
- commencement of any site work.
- 4. The TPF shall remain in the approved locations throughout the duration of the site works and shall not be moved at any time to accommodate construction
- 5. The Contractor shall inspect TPF weekly and maintain as required through all stages of development/construction. The TPF shall be removed at the completion of all site works and disturbed areas shall be restored to original condition.

TREE PRESERVATION

- 1. The Tree Protection Zone (TPZ) is protected and delineated by the TPF or as otherwise defined. The Contractor is not to proceed in uncertainty.
- 2. Any potential or incurred injury/damage to adjacent tree(s) identified to be preserved shall be immediately reported to the Project Arborist and reviewed on site. Injury/damage includes any required arboricultural treatment including but not limited to: limb pruning, trunk damage, root exposure or required cutting/removal or any other activity that has the potential to harm the tree.
- 3. The TPZ is not to be used for any type of storage including materials, equipment or stockpiles.
- 4. No trenching or tunneling for underground services shall occur within the TPZ.
- 5. Any equipment use within the TPZ will be restricted throughout all stages of development. This applies to TPZs within or outside of the project limit line.
- 6. Absolutely no alteration of grades or construction activity is permitted within the TPF and TPZ. Absolutely no flushing of contaminant shall be permitted towards or within the TPZ.
- 7. When working adjacent to trees to be preserved site preparation measures such as pruning for overhead clearance may be required. Preparatory pruning shall only be performed when completed by or under the direct supervision of an ISA Certified Arborist (or approved qualified person as approved by the
- 8. All pruning work shall be performed by a qualified individual and shall be in accordance with current horticultural practices including but not limited to:
- a. Pruning cuts shall be made just beyond the branch collar and should be limited to thinning cuts. Heading cuts will only be accepted in specific cases as directed by an arborist and should be avoided where possible.
- b. Pruning of all stems greater than 50 mm in diameter should be made with a three-cut method to avoid tearing living bark tissue.
- c. No wound dressings shall be applied.
- 9. Where soil excavation/grading work is required within the rooting zone of a tree to be preserved (the rooting zone often extends beyond the identified TPZ and can be 3 times the dripline radius or more):
- a. Roots shall be cleanly severed before stripping and removing soil to avoid damage to the tree and the root system. Roots to be cut using appropriate equipment (i.e. trencher adapted to this specific use/chainsaw/root pruning machine). Roots may be severed using the clean edge of a straight excavator bucket under supervision of an ISA Certified Arborist.
- b. No attempts to cut existing roots with the digging bucket of any heavy machinery will be permitted as it can cause the roots to tear and pull and be harmful to root regeneration and recovery.
- c. Any exposed roots of a tree to be preserved with a diameter greater than 2.5cm (1 inch) shall be pruned back to the soil face.
- d. An excavation area within the TPZ shall be backfilled immediately and/or roots shall be kept constantly moist with burlap covered with white plastic and checked a minimum of 2 times a day, for a maximum of 48 hours. If roots are to be exposed for a period greater than 48 hours, the exposed area shall be covered with a minimum of 150 mm (6 inches) of mulch and maintained in a moist condition during construction until the area can be properly
- 10. Trees shall not have any rigging cables, fencing, signage or hardware of any sort attached or wrapped around them.
- 11. No contaminants or toxic materials shall be dumped or flushed where they may come into contact with the feeder roots of trees to be preserved.
- 12. The Contractor will be held responsible for all avoidable damage to preserved trees during all stages of construction.
- 13. Watering or other maintenance of trees to be preserved may be required if construction activities are observed to be causing stress or impacting health as determined by the Project Arborist.

MATTHEW CAMPBELL

(ON-3008-A), TRAQ

- 1. Prior to the commencement of tree removals, all trees designated for removal must be clearly identified in the field.
- 2. Where possible, removals, chipping, and/or brush removal is to be completed outside the window of April 1 to August 31. This window accounts for active bird nesting and bat maternity roosting periods. Where removals must occur within the restricted activity window, nest and roosting habitat assessments to protect species protected under the Migratory Birds Convention Act, 1994 and Endangered Species Act, 2007. These surveys must be completed by a qualified biologist or ornithologist.
- 3. Trees shall always be felled away from adjacent preserved trees to prevent avoidable damage to the crowns and stems

ELMES CONSENT APPLICATION TOWN OF THE BLUE MOUNTAINS

TREE INVENTORY PLAN PRIVATE LANDS



Drawn By	K.C.	Design By	K.C./A.P.	Project	2019-5839-2
Check By	A.P.	Check By	M.C.	Drawing	TI-2

SUBJECT PROPERTY

KEY PLAN SCALE: N.T.S.

LEGEND

PROPERTY BOUNDARY

EXISTING DECIDUOUS TREE TO

EXISTING DECIDUOUS TREE TO BE RETAINED OR PROTECTED

EXISTING CONIFEROUS TREE TO BE RETAINED OR PROTECTED

BE REMOVED

TREE ID NUMBER

TREE TO BE REMOVED

— — — — LOT BOUNDARY