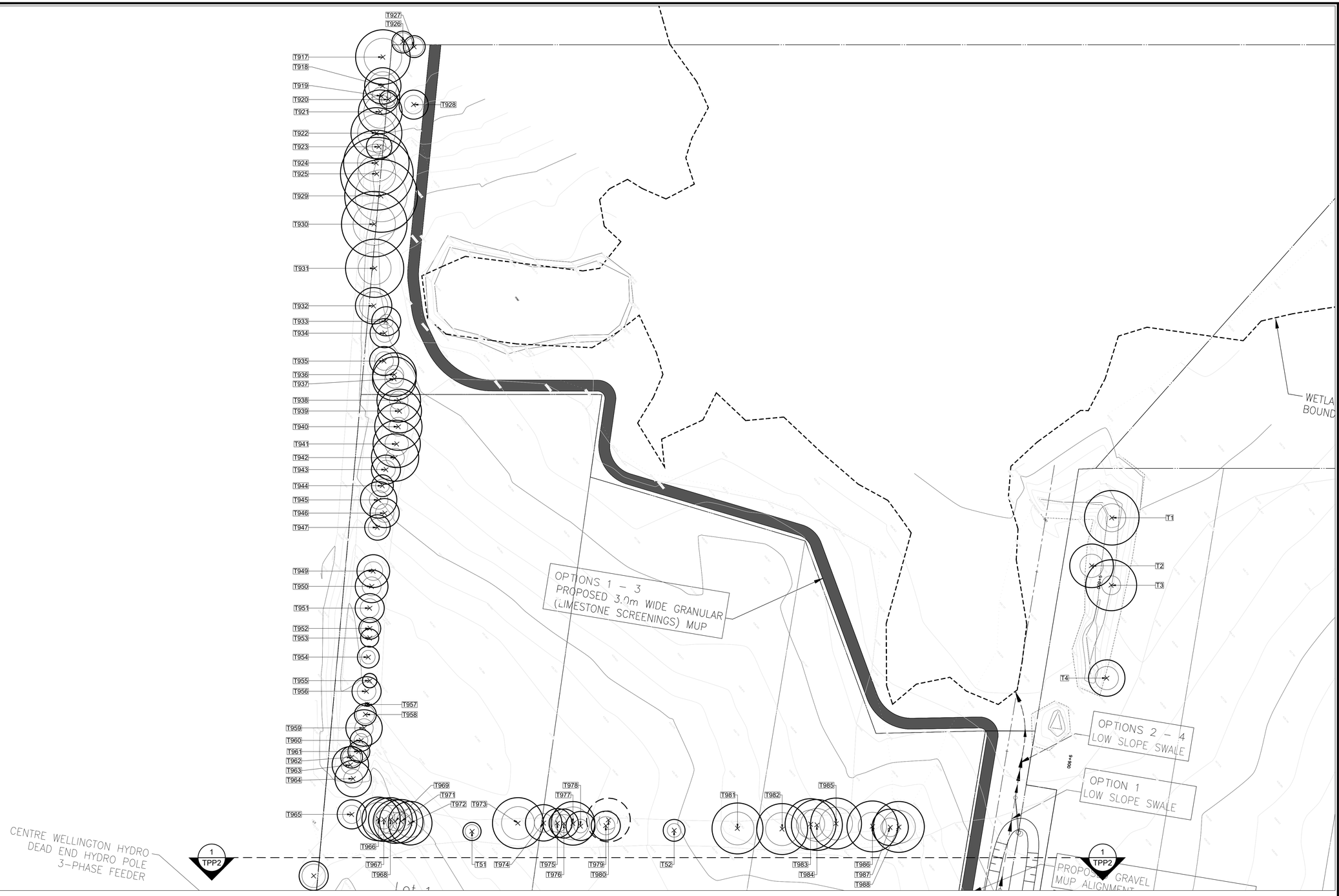
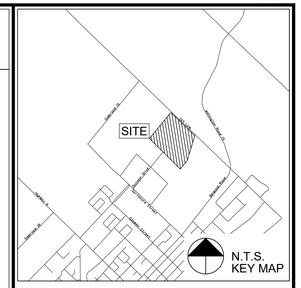




LEGEND:

EXISTING TREE
ID NUMBER | THICK CIRCLE DENOTES CROWN DIAMETER (ESTIMATED). THIN CIRCLE DENOTES MINIMUM TREE PROTECTION ZONE (MTPZ). SINGLE THICK CIRCLE DENOTES BOTH CROWN DIAMETER AND MTPZ

PRESERVE TREE
TREE HAS MODERATE LOW TO HIGH BIOLOGICAL HEALTH AND MODERATE LOW TO HIGH STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION

REMOVE TREE
TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR LOW STRUCTURAL CONDITION AND IS IN CONFLICT WITH PROPOSED DEVELOPMENT

INFORMATION SOURCES

1. Site Plans received from Triton Engineering Services Ltd. January 14, 2022.
2. Tree Inventory and Assessment conducted by Aboud & Associates Inc. August 31, 2021.

No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudtng.com

Title:

TREE PRESERVATION PLAN

Project:

DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

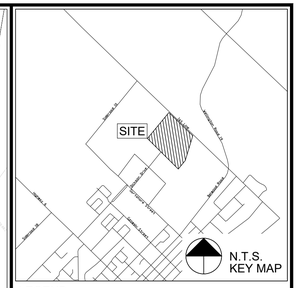
Date: FEBRUARY 2022	Designer: DB
Project: AA21-085A	Drawn: JGL
Scale: 1:500	Checked: JD

Drawing No:

TPP1

FILEPATH - I:\ABOUDFS01\COMPANY\AA PROJECTS\2021\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH MUNICIPAL CLASS EA\DRAWINGS\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMP Standard.ctb PLOTTED 3-Feb-22 4:00 PM





LEGEND:

EXISTING TREE
ID NUMBER | THICK CIRCLE DENOTES CROWN DIAMETER (ESTIMATED). THIN CIRCLE DENOTES MINIMUM TREE PROTECTION ZONE (MTPZ). SINGLE THICK CIRCLE DENOTES BOTH CROWN DIAMETER AND MTPZ

PRESERVE TREE
TREE HAS MODERATE LOW TO HIGH BIOLOGICAL HEALTH AND MODERATE LOW TO HIGH STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION

REMOVE TREE
TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR LOW STRUCTURAL CONDITION AND IS IN CONFLICT WITH PROPOSED DEVELOPMENT

INFORMATION SOURCES

1. Site Plans received from Triton Engineering Services Ltd. January 14, 2022.
2. Tree Inventory and Assessment conducted by Aboud & Associates Inc. August 31, 2021.

No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudtng.com

Title:

TREE PRESERVATION PLAN

Project:

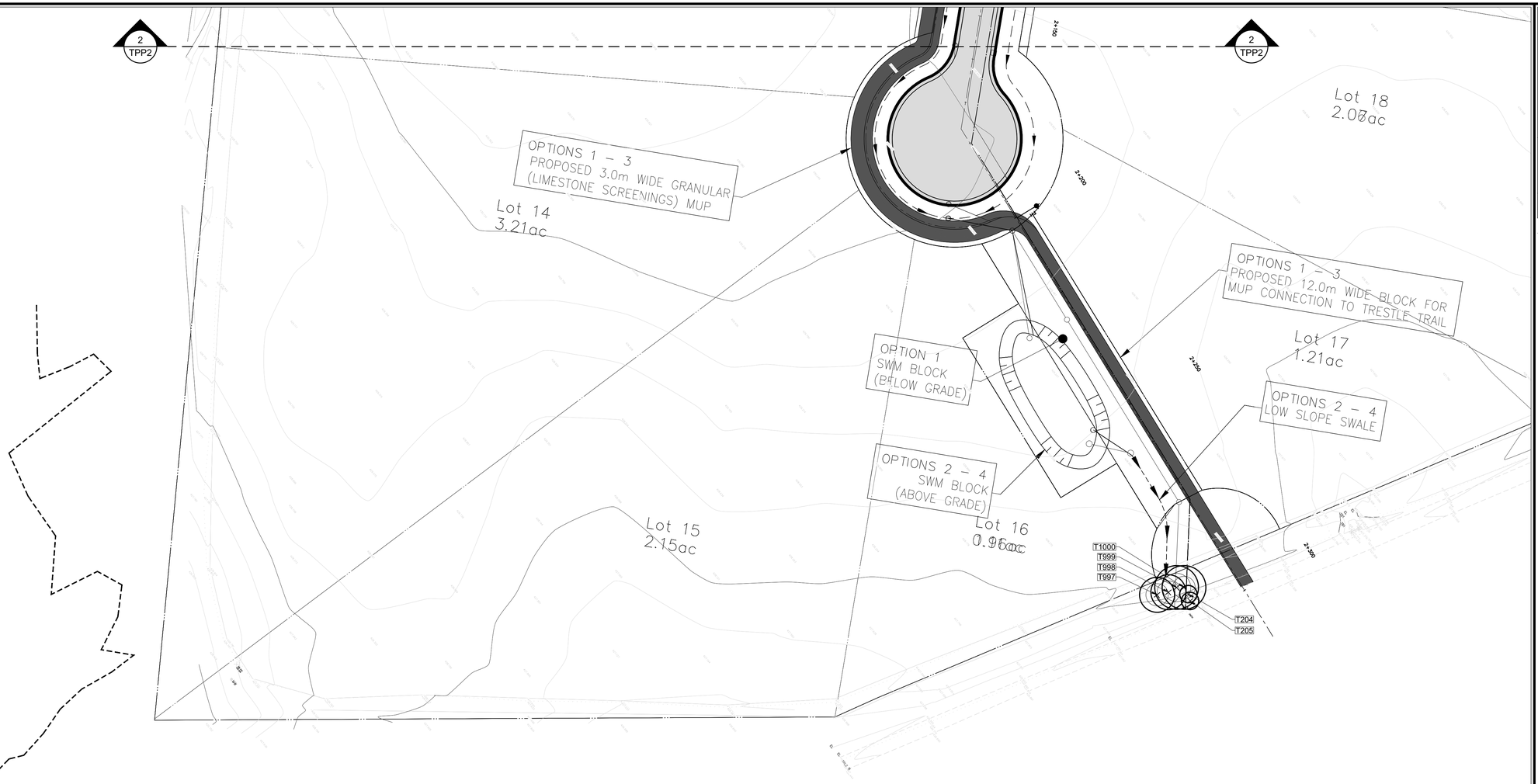
DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

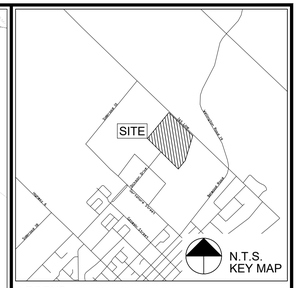
Date: FEBRUARY 2022	Designer: DB
Project: AA21-085A	Drawn: JGL
Scale: 1:500	Checked: JD

Drawing No:

TPP2

FILEPATH: \\ABOUDFS01\COMPANY\A-A PROJECTS\2021-A\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH MUNICIPAL CLASS EA\DRAWINGS\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMIP_Standard.ctb PLOTTED: 3-Feb-22 4:00 PM





LEGEND:

EXISTING TREE
ID NUMBER | THICK CIRCLE DENOTES CROWN DIAMETER (ESTIMATED). THIN CIRCLE DENOTES MINIMUM TREE PROTECTION ZONE (MTPZ). SINGLE THICK CIRCLE DENOTES BOTH CROWN DIAMETER AND MTPZ

PRESERVE TREE
TREE HAS MODERATE LOW TO HIGH BIOLOGICAL HEALTH AND MODERATE LOW TO HIGH STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION

REMOVE TREE
TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR LOW STRUCTURAL CONDITION AND IS IN CONFLICT WITH PROPOSED DEVELOPMENT

INFORMATION SOURCES

1. Site Plans received from Triton Engineering Services Ltd. January 14, 2022.
2. Tree Inventory and Assessment conducted by Aboud & Associates Inc. August 31, 2021.

No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudtng.com

Title:

TREE PRESERVATION PLAN

Project:

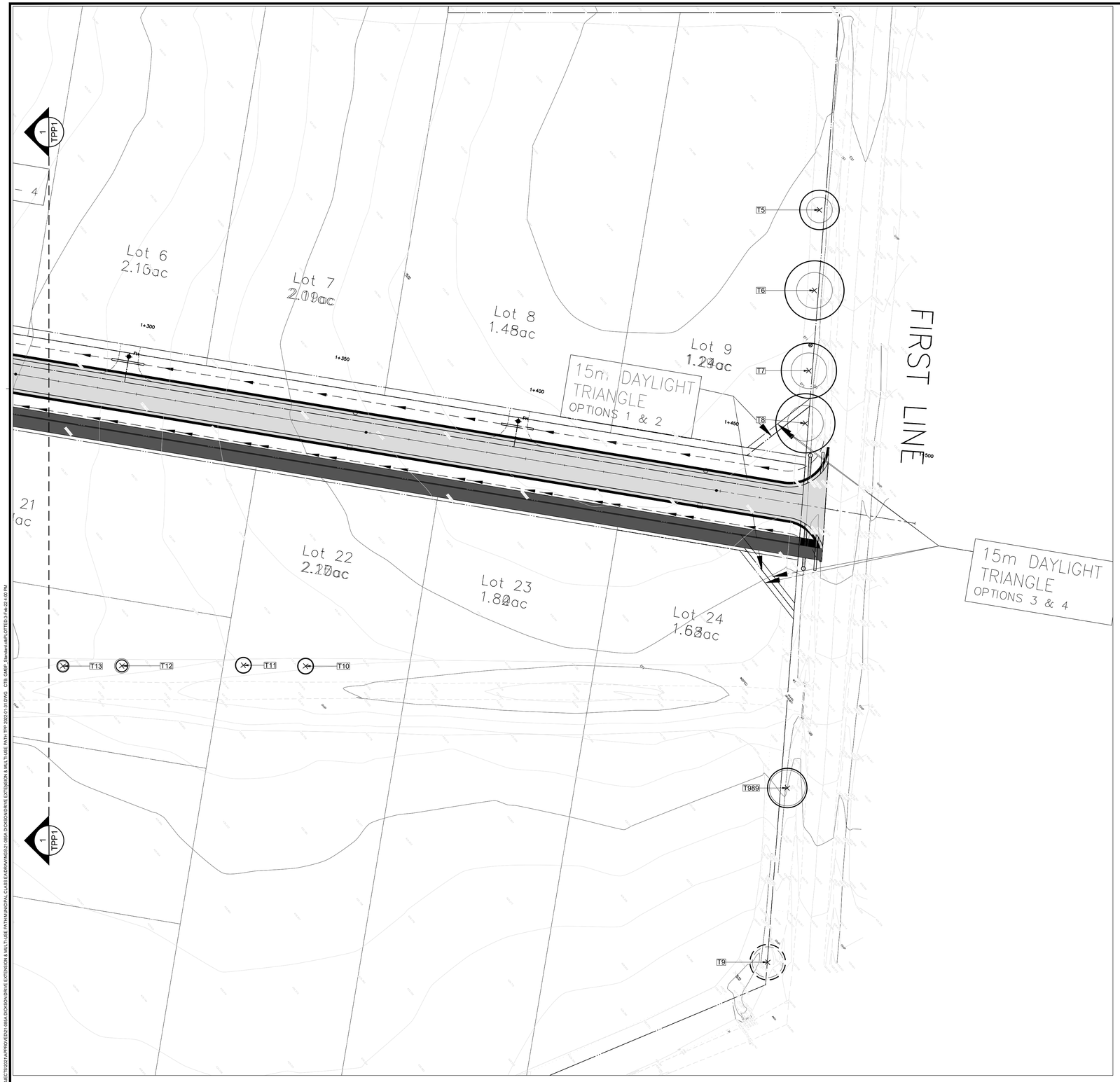
DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

Date: FEBRUARY 2022	Designer: DB
Project: AA21-085A	Drawn: JGL
Scale: 1:500	Checked: JD

Drawing No:

TPP3

FILEPATH: \\ABOUDFS01\COMPANY\A+A PROJECTS\2021\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH MUNICIPAL CLASS EA\DRAWINGS\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMBP_Standard.ctb PLOTTED:3-Feb-22 4:00 PM



GENERAL TREE NOTES

1. All arboricultural work performed on trees such as pruning of branches and roots shall be conducted by an ISA Certified Arborist.
2. Prune and mitigate limbs and roots damaged by construction work in accordance with ANSI A300 (Part 1) - 2008 Pruning and the Best Management Practices companion publication (revised 2008).
3. Tree Protection Fence to be erected prior to the commencement of any construction or grading, and maintained throughout the duration of the work.
4. Tree Protection Zone is delimited by Tree Protection Fence shown on the drawings.
5. No construction or activities including the following to occur within Tree Protection Zone: equipment parking or access, storage of supplies, topsoil or fill, and refueling.
6. Tree removals (if required) will be undertaken in compliance with the Migratory Birds Convention Act. Efforts will be made to remove vegetation outside the General Nesting period (April 1 - Aug 31) for regions C1 and C2 of Ontario. In the event vegetation must be removed within the General Nesting Period, a qualified avian biologist is to review the site prior to removal to ensure compliance with the Migratory Birds Convention Act.
7. Any soils and vegetation within tree protection zone damaged by the Contractor shall be restored to the satisfaction of the Municipality by the Contractor at no additional cost to the Owner.

CONSTRUCTION WITHIN MINIMUM TREE PROTECTION ZONE

1. An ISA Certified Arborist must be present on site during construction activities within MTPZ to confirm and/or modify mitigation measures for trees to be preserved.
2. Use trenchless methods (e.g. horizontal directional drilling) to install underground services (e.g. sanitary sewers and water lines) within Minimum Tree Protection Zones.

EXISTING UNDERGROUND SERVICES WITHIN TREE PROTECTION ZONES

1. Existing sanitary/storm sewers and watermains to be discontinued within tree protection zones will be filled (as needed) and abandoned.
2. Excavation and access for construction/removal of abandoned underground services will be conducted outside of tree protection zones.

FINISH GRADING WITHIN TREE PROTECTION ZONES

Where finish grading of cuts and fills, and including swales occurs within tree protection zones, the following steps are required.

Grade Cut:

1. Excavate by hand or Air-spade technology to a maximum depth of 100mm.
2. Roots encountered are to be assessed by the Project Arborist to determine the extent of roots to be pruned. Based on findings, other treatments may be required (e.g. crown reduction, tree removal), and which may require approval from the City.
3. Based on root findings, local, minor adjustments to grading within the tree protection zone may be required based on field consultation between the Project Arborist and Project Engineer.
4. No access by heavy equipment into tree protection zone is permitted. Fine grading to be carried out using light equipment and/or by hand.

Grade Fill:

5. Add topsoil to meet grade requirements to a maximum of 150mm.
6. No topsoil to be added onto trunk base or above-ground section of trunk base flare.
7. Maintain positive drainage away from trunk base.
8. Based on local conditions (e.g. surface drainage), local, minor adjustments to grading within the tree protection zone may be required based on field consultation between the Project Arborist and Project Engineer.

TREES OWNED BY OTHERS

1. Trees owned by others require permission (i.e. written consent) from the land owner(s) prior to activities that may damage or destroy trees. Trees owned by others are Offsite Trees and Shared Trees:
   a. Offsite Trees - Trees on property adjacent to the subject property;
   b. Shared (Boundary) Trees - Trees whose trunk including the basal trunk flare growing on the boundary between the subject property and adjoining property (from *Ontario Forestry Act*).

The Provincial Forestry Act, R.S.O. 1990 (Section 10):

10. (2) Every tree whose trunk is growing on the boundary between adjoining lands is the common property of the owners of the adjoining lands. 1990, c. 18 Sched. I, s. 21.
(3) Every person who injures or destroys a tree growing on the boundary between adjoining lands without the consent of the land owners is guilty of an offence under this Act. 1998, c. 18, Sched. I, s. 21.

ROOT SENSITIVE EXCAVATION

A preliminary excavation at the limit of work is recommended to determine the potential magnitude of the impacts posed by the planned work. For excavation in turf or permeable surfaces, the final excavation limit should be marked in the field and excavation shall be performed using air-spade, dry-vac truck, hydro-vac truck or hand tools. For excavation of existing impermeable surfaces, the impermeable top layer may be broken up by machine to allow access to the permeable base layers. The permeable base layers may need to be excavated further to expose existing roots, in which case this excavation shall be performed using air-spade, dry-vac truck, hydro-vac truck or hand tools. All root sensitive excavation must be performed under the supervision of a qualified arborist. All roots exposed must be documented by the supervising arborist. Every effort should be made to preserve as many exposed roots as possible. Roots approved for pruning should be cleanly cut with a sharp, non-vibrating tool such as a handsaw, secateurs, chainsaw at face of trench such that no further disturbance of the roots are to be expected once mechanical excavation begins. All root pruning is to be performed by the arborist only, as per guidelines below.

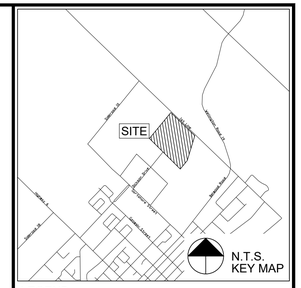
1. When root sensitive excavation is performed in regards to the installation of a deep site feature such as a foundation, roots of less than 5cm diameter can be cut sharply, if necessary, unless an abundance of smaller roots are involved. If roots of 5cm diameter or greater or an abundance of smaller roots are exposed in the excavation areas inside or just outside the Tree Protection Zone (TPZ) of bylaw trees they should be preserved.

2. When root sensitive excavation is performed in regards to the installation of site features such as post holes, all roots exposed of under 5cm diameter may be cleanly cut at face of hole such that no further disturbance of the roots are to be expected once mechanical excavation begins for the lower portion of the holes (below hand dug area). If roots of 5cm diameter or greater are uncovered they should be preserved, the post holes filled in with viable soil and the hole moved at least 0.5 metre away to avoid significant roots.

3. When root sensitive excavation is performed in regards to the installation of site features such as driveways, walkways, curbs, etc. roots of less than 5cm diameter can be cut sharply, if necessary, unless an abundance of smaller roots are involved. If roots of 5cm diameter or greater or an abundance of smaller roots are exposed in the excavation areas inside or just outside the TPZ of bylaw trees they should be preserved

4. When root sensitive excavation is performed in regards to the installation of utilities such as water lines or sewers, every effort should be made to preserve as many exposed roots as possible by installing the utilities underneath the roots without root pruning. If roots of 5cm diameter or greater are uncovered they should be preserved.

GENERAL TREE PROTECTION NOTES



LEGEND:

EXISTING TREE
ID NUMBER | THICK CIRCLE DENOTES CROWN DIAMETER (ESTIMATED). THIN CIRCLE DENOTES MINIMUM TREE PROTECTION ZONE (MTPZ). SINGLE THICK CIRCLE DENOTES BOTH CROWN DIAMETER AND MTPZ

PRESERVE TREE
TREE HAS MODERATE LOW TO HIGH BIOLOGICAL HEALTH AND MODERATE LOW TO HIGH STRUCTURAL CONDITION AND CAN BE INCORPORATED INTO THE PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR STRUCTURAL CONDITION

REMOVE TREE
TREE IS IN CONFLICT WITH PROPOSED DEVELOPMENT

REMOVE TREE
TREE HAS LOW BIOLOGICAL HEALTH AND/OR LOW STRUCTURAL CONDITION AND IS IN CONFLICT WITH PROPOSED DEVELOPMENT

INFORMATION SOURCES

1. Site Plans received from Triton Engineering Services Ltd. January 14, 2022.
2. Tree Inventory and Assessment conducted by Aboud & Associates Inc. August 31, 2021.

No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudtng.com

Title:

TREE PRESERVATION PLAN

Project:

DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

Date: FEBRUARY 2022	Designer: DB
Project: AA21-085A	Drawn: JGL
Scale: 1:500	Checked: JD

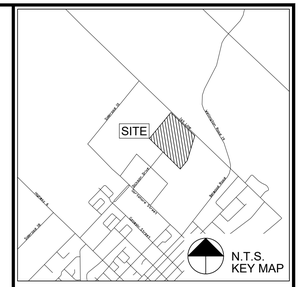
Drawing No:

TPP4

FILEPATH: \ABOUDFS01\COMPANY\AA-A PROJECTS\2021\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH MUNICIPAL CLASS EA\DRAWINGS\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMIP_Standard.ctb PLOTTED:3-Feb-22 4:00 PM

Tree No. (not tagged)	Tree Species	DBH (cm)	Minimum Tree Protection Zone (m, from total height of tree)	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development	Ownership: Private (P), Offsite (O), Municipal (M), Shared (S!)	Rec. Action - Development: Preserve, Remove	Rec. Action - Development (Option 1): Preserve, Remove	Rec. Action - Development (Option 2): Preserve, Remove	Rec. Action - Development (Option 3): Preserve, Remove	Rec. Action - Development (Option 4): Preserve, Remove	Final Recommendation: Preserve, Remove	Compensation Required: Yes (Y), No (N)	Reason for removal	Comments
1	Acer negundo Manitoba Maple	52 [38,30]	3.6	15	Dominant	Good	M	P	P	P	P	P	P	P	N		
2	Acer negundo Manitoba Maple	41 [27,20,20,19]	3.0	12	Dominant	Good	M	P	P	P	P	P	P	P	N		
3	Acer negundo Manitoba Maple	40	2.4	14	Dominant	Fair	M	P	P	P	P	P	P	P	N		Broken crown
4	Acer negundo Manitoba Maple	42 [30,22,20]	3.0	10	Dominant	Good	M	P	P	P	P	P	P	P	N		
5	Acer rubrum Red Maple	50	3.0	10	Dominant	Good	M	P	P	P	P	P	P	P	N		
6	Acer saccharum ssp. saccharum Sugar Maple	68	4.2	15	Dominant	Fair	M	P	P	P	P	P	P	P	N		Deadwood moderate, large cavity
7	Acer saccharum ssp. saccharum Sugar Maple	64	4.2	14	Dominant	Good	M(H)	P	P	P	P	P	P	P	N		Minor deback
8	Acer saccharum ssp. saccharum Sugar Maple	68	4.2	15	Dominant	Good	M(H)	P	P	P	P	P	P	P	N		
9	Fraxinus americana White Ash	60	3.6	9	Dominant	Very Poor	L	S	R	P	P	P	P	RC	N	Condition	EAB
10	Acer saccharum ssp. saccharum Sugar Maple	10	1.8	4	Dominant	Fair	L	P	P	P	P	P	P	P	N		Trunk wound moderate
11	Acer saccharum ssp. saccharum Sugar Maple	14	1.8	4	Dominant	Good	L	P	P	P	P	P	P	P	N		
12	Acer saccharum ssp. saccharum Sugar Maple	10	1.8	3	Dominant	Good	L	P	P	P	P	P	P	P	N		
13	Acer saccharum ssp. saccharum Sugar Maple	8	1.2	3	Dominant	Good	L	P	P	P	P	P	P	P	N		
14	Acer saccharum ssp. saccharum Sugar Maple	8	1.2	3	Dominant	Good	L	P	P	P	P	P	P	P	N		
15	Acer saccharum ssp. saccharum Sugar Maple	9	1.2	3	Dominant	Good	L	P	P	P	P	P	P	P	N		
16	Picea pungens 'Glauca' Colorado Blue Spruce	18	1.8	2	Dominant	Dead	L	P	R	R	R	R	R	RCD	N	Road extension and condition	
17	Picea pungens 'Glauca' Colorado Blue Spruce	24	2.4	6	Dominant	Good	M	P	P	R	R	R	R	RD	Y	Road extension	
18	Picea pungens 'Glauca' Colorado Blue Spruce	25	2.4	6	Dominant	Good	M	P	P	R	R	R	R	RD	Y	Road extension	Vines
19	Populus deltoides Eastern Cottonwood	34 [18,16,16,13,12]	2.4	6	Dominant	Good	M	P	P	R	R	R	R	RD	Y	Road extension	
20	Prunus serotina Black Cherry	44 [34,28]	3.0	12	Co-Dominant	Fair	M(L)	P	P	P	P	P	P	P	N		Unbalanced crown minor,
21	Prunus serotina Black Cherry	47 [36,30]	3.0	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
22	Acer platanoides Norway Maple	70	4.2	14	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Large split in trunk
23	Prunus serotina Black Cherry	52 [42,30]	3.6	12	Co-Dominant	Fair	M	P	P	P	P	P	P	P	N		Trunk wound moderate at base
24	Picea abies Norway Spruce	55	3.6	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
25	Picea abies Norway Spruce	42	3.0	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
26	Picea abies Norway Spruce	70	4.2	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
27	Picea abies Norway Spruce	48	3.0	8	Intermediate	Fair	L	P	P	P	P	P	P	P	N		Broken crown
28	Thuja occidentalis Eastern White Cedar	43	3.0	7	Co-Dominant	Excellent	M	P	P	P	P	P	P	P	N		
29	Thuja occidentalis Eastern White Cedar	31	2.4	5	Co-Dominant	Excellent	M	P	P	P	P	P	P	P	N		
30	Acer saccharum ssp. saccharum Sugar Maple	95	6.0	18	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
31	Acer saccharum ssp. saccharum Sugar Maple	86	5.4	18	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
32	Acer saccharum ssp. saccharum Sugar Maple	56	3.6	11	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
33	Acer saccharum ssp. saccharum Sugar Maple	46 [36,28]	3.0	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Codominant stems
34	Acer saccharum ssp. saccharum Sugar Maple	39	2.4	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
35	Thuja occidentalis Eastern White Cedar	34	2.4	9	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		Minor lean
36	Thuja occidentalis Eastern White Cedar	72 [43,43,37]	4.8	9	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
37	Acer platanoides Norway Maple	57 [47,32]	3.6	12	Dominant	Good	M	P	P	P	P	P	P	P	N		
38	Acer saccharum ssp. saccharum Sugar Maple	35	2.4	9	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
39	Acer saccharum ssp. saccharum Sugar Maple	65 [60,24]	4.2	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
40	Acer saccharum ssp. saccharum Sugar Maple	89	5.4	15	Dominant	Good	M	P	P	P	P	P	P	P	N		Large portion of the trunk failed
41	Acer saccharum ssp. saccharum Sugar Maple	98	6.0	14	Dominant	Good	M	P	P	P	P	P	P	P	N		
42	Acer saccharum ssp. saccharum Sugar Maple	80	4.8	12	Dominant	Good	M(L)	P	P	P	P	P	P	P	N		Deadwood moderate
43	Acer saccharum ssp. saccharum Sugar Maple	95	6.0	18	Dominant	Good	M	P	P	P	P	P	P	P	N		
44	Prunus serotina Black Cherry	26	2.4	8	Dominant	Good	M	P	P	P	P	P	P	P	N		
45	Prunus serotina Black Cherry	36	2.4	10	Dominant	Good	H	P	P	P	P	P	P	P	N		
46	Picea glauca White Spruce	14	1.8	4	Dominant	Good	M(H)	M	P	P	P	P	P	P	N		Vines
47	Picea pungens 'Glauca' Colorado Blue Spruce	12	1.8	4	Dominant	Good	M(H)	M	P	P	P	P	P	P	N		Vines
48	Acer platanoides Norway Maple	20 [18,9]	2.4	5	Dominant	Good	M	M	P	P	P	P	P	P	N		Codominant stems
49	Pinus sylvestris Scots Pine	20	2.4	5	Dominant	Good	M	M	P	P	P	P	P	P	N		
50	Robinia pseudoacacia Black Locust	43 [23,22,20,21]	3.0	8	Dominant	Good	H	O	P	P	P	P	P	P	N		Vines
51	Acer platanoides 'Crimson King' Crimson King Maple	15	1.8	5	Dominant	Good	L	P	P	P	P	P	P	P	N		
52	Acer platanoides 'Crimson King' Crimson King Maple	15	1.8	6	Dominant	Good	L	P	P	P	P	P	P	P	N		
53	Prunus serotina Black Cherry	75 [60,40]	4.8	15	Dominant	Good	M(H)	P	P	P	P	P	P	P	N		
204	Acer saccharum ssp. saccharum Sugar Maple	14	1.8	4	Intermediate	Good	M	O	P	P	P	P	P	P	N		
205	Acer saccharum ssp. saccharum Sugar Maple	16	1.8	4	Intermediate	Good	M	O	P	P	P	P	P	P	N		
917	Acer saccharum ssp. saccharum Sugar Maple	73	4.8	15	Dominant	Good	H	O	P	P	P	P	P	P	N		Offsite
918	Acer saccharum ssp. saccharum Sugar Maple	60	3.6	10	Dominant	Fair	H	O	P	P	P	P	P	P	N		Trunk decay severe
919	Acer saccharum ssp. saccharum Sugar Maple	30	2.4	10	Intermediate	Good	H	O	P	P	P	P	P	P	N		
920	Fraxinus americana White Ash	18	1.8	5	Intermediate	Poor	L	P	P	P	P	P	P	P	N		
921	Acer saccharum ssp. saccharum Sugar Maple	65	4.2	12	Co-Dominant	Fair	M(H)	O	P	P	P	P	P	P	N		Unbalanced crown severe, trunk wound severe

Tree No. (not tagged)	Tree Species	DBH (cm)	Minimum Tree Protection Zone (m, from total height of tree)	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development	Ownership: Private (P), Offsite (O), Municipal (M), Shared (S!)	Rec. Action - Development: Preserve, Remove	Rec. Action - Development (Option 1): Preserve, Remove	Rec. Action - Development (Option 2): Preserve, Remove	Rec. Action - Development (Option 3): Preserve, Remove	Rec. Action - Development (Option 4): Preserve, Remove	Final Recommendation: Preserve, Remove	Compensation Required: Yes (Y), No (N)	Reason for removal	Comments
922	Acer saccharum ssp. saccharum Sugar Maple	77	4.8	14	Co-Dominant	Good	H	O	P	P	P	P	P	P	N		Trunk wound severe, unbalanced crown moderate
923	Prunus serotina Black Cherry	17	1.8	7	Suppressed	Good	M(H)	O	P	P	P	P	P	P	N		
924	Acer saccharum ssp. saccharum Sugar Maple	75	4.8	18	Co-Dominant	Good	M(H)	O	P	P	P	P	P	P	N		Unbalanced crown severe, trunk wound severe
925	Acer saccharum ssp. saccharum Sugar Maple	73 [64,35]	4.8	20	Co-Dominant	Excellent	H	O	P	P	P	P	P	P	N		
926	Prunus serotina Black Cherry	34	2.4	6	Co-Dominant	Fair	M	S	P	P	P	P	P	P	N		Crown thin
927	Ostrya virginiana Ironwood	26	2.4	6	Intermediate	Good	M	S	P	P	P	P	P	P	N		
928	*Picea glauca* *White Spruce*	31	2.4	8	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
929	Acer saccharum ssp. saccharum Sugar Maple	105	6.6	20	Co-Dominant	Good	H	P	P	P	P	P	P	P	N		Codominant stems, trunk splits
930	*Acer saccharum ssp. saccharum* *Sugar Maple*	82 [65,50]	5.4	18	Co-Dominant	Good	H	S	P	P	P	P	P	P	N		
931	Acer saccharum ssp. saccharum Sugar Maple	62	4.2	16	Co-Dominant	Good	H	S	P	P	P	P	P	P	N		
932	*Populus deltoides* *Eastern Cottonwood*	58	3.6	10	Co-Dominant	Good	H	P	P	P	P	P	P	P	N		
933	Robinia pseudoacacia Black Locust	15	1.8	8	Intermediate	Good	L	P	P	P	P	P	P	P	N		
934	Robinia pseudoacacia Black Locust	20	2.4	8	Intermediate	Good	L	P	P	P	P	P	P	P	N		
935	Robinia pseudoacacia Black Locust	31 [27,16]	2.4	8	Intermediate	Good	L	P	P	P	P	P	P	P	N		
936	*Robinia pseudoacacia* *Black Locust*	25 [23,11]	2.4	12	Intermediate	Good	L	P	P	P	P	P	P	P	N		
937	*Robinia pseudoacacia* *Black Locust*	38 [27,27]	2.4	12	Intermediate	Good	L	P	P	P	P	P	P	P	N		
938	Acer saccharinum Silver Maple	30	2.4	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
939	*Acer saccharinum* *Silver Maple*	38 [30,14]	2.4	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
940	*Acer saccharinum* *Silver Maple*	36	2.4	13	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
941	*Acer saccharinum* *Silver Maple*	42	3.0	13	Intermediate	Good	M	P	P	P	P	P	P	P	N		Broken crown
942	*Acer saccharinum* *Silver Maple*	30 [25,16]	2.4	13	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
943	*Robinia pseudoacacia* *Black Locust*	31	2.4	8	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		Codominant stems, trunk split
944	*Robinia pseudoacacia* *Black Locust*	18	1.8	6	Intermediate	Good	L	P	P	P	P	P	P	P	N		
945	*Robinia pseudoacacia* *Black Locust*	32	2.4	10	Intermediate	Good	L	P	P	P	P	P	P	P	N		
946	*Robinia pseudoacacia* *Black Locust*	27	2.4	8	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
947	*Robinia pseudoacacia* *Black Locust*	20	2.4	7	Co-Dominant	Fair	L	P	P	P	P	P	P	P	N		Crown thin
949	*Robinia pseudoacacia* *Black Locust*	34	2.4	9	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Trunk wound moderate
950	*Robinia pseudoacacia* *Black Locust*	38	2.4	9	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
951	*Robinia pseudoacacia* *Black Locust*	37	2.4	8	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Vines
952	*Robinia pseudoacacia* *Black Locust*	20	2.4	6	Co-Dominant	Poor	L	P	P	P	P	P	P	P	N		Vines, deadwood moderate, crown thin
953	*Robinia pseudoacacia* *Black Locust*	22	2.4	5	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Vines
954	*Robinia pseudoacacia* *Black Locust*	15 [13,8]	1.8	6	Intermediate	Good	M	P	P	P	P	P	P	P	N		Vines
955	Robinia pseudoacacia Black Locust	15	1.8	4	Suppressed	Fair	M(L)	P	P	P	P	P	P	P	N		Broken crown, vines
956	*Robinia pseudoacacia* *Black Locust*	33	2.4	8	Intermediate	Good	M(L)	P	P	P	P	P	P	P	N		Vines
957	*Robinia pseudoacacia* *Black Locust*	24	2.4	1	Intermediate	Dead	L	P	R	P	P	P	P	RC	N	Condition	Vines
958	*Robinia pseudoacacia* *Black Locust*	23 [20,11]	2.4	6	Intermediate	Good	M(L)	P	P	P	P	P	P	P	N		
959	*Robinia pseudoacacia* *Black Locust*	24	2.4	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		Vines
960	*Robinia pseudoacacia* *Black Locust*	18	1.8	6	Intermediate	Good	L	P	P	P	P	P	P	P	N		
961	*Acer saccharinum* *Silver Maple*	27 [17,14,11,10]	2.4	6	Intermediate	Fair	M(L)	P	P	P	P	P	P	P	N		
962	Robinia pseudoacacia Black Locust	23	2.4	6	Intermediate	Fair	M(L)	P	P	P	P	P	P	P	N		
963	*Robinia pseudoacacia* *Black Locust*	29	2.4	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
964	*Robinia pseudoacacia* *Black Locust*	35	2.4	10	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
965	*Acer x Freemani* *Freeman Maple*	20 [14,14]	2.4	8	Suppressed	Good	M(L)	P	P	P	P	P	P	P	N		Codominant stems
966	*Populus deltoides* *Eastern Cottonwood*	65	4.2	12	Dominant	Good	M	P	P	P	P	P	P	P	N		
967	*Populus deltoides* *Eastern Cottonwood*	32	2.4	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
968	*Populus deltoides* *Eastern Cottonwood*	58	3.6	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
969	*Populus deltoides* *Eastern Cottonwood*	23	2.4	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
971	*Populus deltoides* *Eastern Cottonwood*	35	2.4	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
972	*Populus deltoides* *Eastern Cottonwood*	60	3.6	12	Co-Dominant	Good	M	P	P	P	P	P	P	P	N		
973	*Populus deltoides* *Eastern Cottonwood*	65	4.2	14	Dominant	Good	L	P	P	P	P	P	P	P	N		
974	*Acer platanoides* *Norway Maple*	31 [25,18]	2.4	10	Intermediate	Good	L	P	P	P	P	P	P	P	N		Codominant stems
975	*Populus deltoides* *Eastern Cottonwood*	21	2.4	8	Co-Dominant	Fair	L	P	P	P	P	P	P	P	N		Crown thin
976	*Acer platanoides 'Crimson King'* *Crimson King Maple*	22	2.4	8	Suppressed	Good	L	P	P	P	P	P	P	P	N		
977	*Populus deltoides* *Eastern Cottonwood*	66	4.2	12	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
978	*Acer platanoides 'Crimson King'* *Crimson King Maple*	15	1.8	8	Intermediate	Good	L	P	P	P	P	P	P	P	N		
979	*Acer platanoides 'Crimson King'* *Crimson King Maple*	20	2.4	8	Intermediate	Good	L	P	P	P	P	P	P	P	N		
980	*Prunus serotina* *Black Cherry*	36 [26,20,15]	2.4	12	Intermediate	Very Poor	L	P	R	P	P	P	P	RC	N	Condition	
981	*Populus deltoides* *Eastern Cottonwood*	66	4.2	14	Dominant	Good	L	P	P	P	P	P	P	P	N		
982	*Populus deltoides* *Eastern Cottonwood*	70	4.2	14	Dominant	Good	L	P	P	P	P	P	P	P	N		
983	*Populus deltoides* *Eastern Cottonwood*	56	3.6	14	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		



No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudting.com

Title:

TREE PRESERVATION DATA

Project:

DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

Date: FEBRUARY 2022 | Designer: DB
Project: AA21-085A | Drawn: JGL
Scale: N/A | Checked: JD

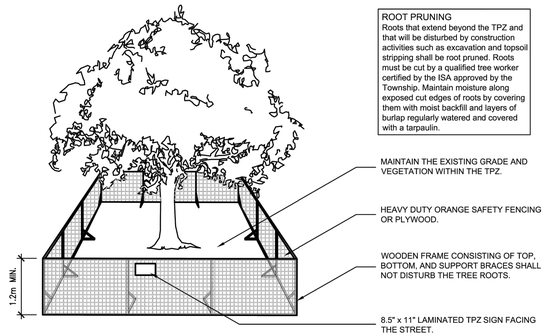
Drawing No:

TPP5

FILEPATH: I:\ABOUDFS01\COMPANY\A A PROJECTS\2021\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH\MUNI\PN_CLASS EA\DRAWING\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMBP Standard.ctb PLOTTED:3-Feb-22 4:06 PM

Tree No. (not tagged)	Tree Species	DBH (cm)	Minimum Tree Protective Zone (m, from outer edge of trunk)	Crown Diameter est. (m)	Crown Class	Condition	Constraint to Development	Ownership: Private (P), Offsite (O), Municipal (M), Shared (S)	Rec. Action - Condition: Preserve/ Remove	Rec. Action - Development (Option 1): Preserve/ Remove	Rec. Action - Development (Option 2): Preserve/ Remove	Rec. Action - Development (Option 3): Preserve/ Remove	Rec. Action - Development (Option 4): Preserve/ Remove	Final Recommendation: Preserve/ Remove	Compensation Required: Yes (Y) or No (N)	Reason for removal	Comments
984	*Populus deltoides* *Eastern Cottonwood*	65	4.2	14	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
985	*Populus deltoides* *Eastern Cottonwood*	63	4.2	14	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
986	*Populus deltoides* *Eastern Cottonwood*	60	3.6	14	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
987	*Populus deltoides* *Eastern Cottonwood*	34	2.4	10	Intermediate	Good	L	P	P	P	P	P	P	P	N		
988	*Populus deltoides* *Eastern Cottonwood*	68	4.2	14	Dominant	Good	L	P	P	P	P	P	P	P	N		
989	*Acer saccharum ssp. saccharum* *Sugar Maple*	70	4.2	10	Dominant	Good	M	M	P	P	P	P	P	P	N		Cavity
990	*Acer negundo* *Manitoba Maple*	45 [37,26,24]	3.0	12	Co-Dominant	Good	L	P	P	P	P	P	P	P	N		
991	*Acer negundo* *Manitoba Maple*	22 [20,10]	2.4	8	Suppressed	Good	L	P	P	P	P	P	P	P	N		
992	*Ulmus americana* *White Elm*	50	3.0	14	Dominant	Excellent	M	P	P	P	P	P	P	P	N		
993	*Acer saccharum ssp. saccharum* *Sugar Maple*	35	2.4	10	Intermediate	Good	M	P	P	P	P	P	P	P	N		
994	*Prunus serotina* *Black Cherry*	32	2.4	10	Intermediate	Fair	L	P	P	P	P	P	P	P	N		Crown thin
995	*Prunus serotina* *Black Cherry*	28 [23,16]	2.4	8	Intermediate	Fair	M(L)	P	P	P	P	P	P	P	N		
996	*Acer negundo* *Manitoba Maple*	23 [17,16]	2.4	8	Intermediate	Fair	M(L)	P	P	P	P	P	P	P	N		Moderate lean
997	*Prunus serotina* *Black Cherry*	30	2.4	8	Co-Dominant	Good	M	O	P	P	P	P	P	P	N		
998	*Prunus serotina* *Black Cherry*	36 [25,24,11]	2.4	8	Co-Dominant	Good	M	O	P	P	P	P	P	P	N		
999	*Malus pumila* *Apple*	47 [34,33]	3.0	10	Dominant	Good	M	O	P	P	P	P	P	P	N		
1000	*Malus pumila* *Apple*	30	2.4	10	Co-Dominant	Good	M	O	P	P	P	P	P	P	N		Moderate lean

Ownership:																	
							Private (On Site) Trees		112								
							Private (Off Site) Trees		15								
							Municipal Trees		5								
							Shared Trees		5								
							Total		**137**								
Recommendation Based on Condition:																	
							Preserve Tree Based on Health & Structure			133							
							Remove Tree Based on Health & Structure			4							
							Total			**137**							
Recommendation Based on Development (Option 1):																	
							Preserve/Transplant Tree Based on Development Impacts				133						
							Remove Tree Based on Development Impacts				4						
							Total				**137**						
Recommendation Based on Development (Option 2):																	
							Preserve/Transplant Tree Based on Development Impacts					133					
							Remove Tree Based on Development Impacts					4					
							Total					**137**					
Recommendation Based on Development (Option 3):																	
							Preserve/Transplant Tree Based on Development Impacts						133				
							Remove Tree Based on Development Impacts						4				
							Total						**137**				
Recommendation Based on Development (Option 4):																	
							Preserve/Transplant Tree Based on Development Impacts							133			
							Remove Tree Based on Development Impacts							4			
							Total							**137**			
Final Recommendation:																	
							Final Recommendation: Preserve (P)								130		
							Final Recommendation: Remove due to Condition (RC)								3		
							Final Recommendation: Remove due to Development (RD)								3		
							Final Recommendation: Remove due to Condition & Development (RCD)								1		
							Total								**137**		
Trees Requiring Compensation:																Total Compensation Trees (2:1)	
							Compensation Required: Yes (Y)								3	**6**	
							Compensation Required: No (N)								134		
							Total								**137**		



ROOT PRUNING
Roots that extend beyond the TPZ and that will be disturbed by construction activities such as excavation and topsoil stripping shall be root pruned. Roots must be cut by a qualified tree worker certified by the ISA approved by the Township. Maintain moisture along exposed cut edges of roots by covering them with moist backfill and layers of burlap regularly watered and covered with a tarpaulin.

MAINTAIN THE EXISTING GRADE AND VEGETATION WITHIN THE TPZ.

HEAVY DUTY ORANGE SAFETY FENCING OR PLYWOOD.

WOODEN FRAME CONSISTING OF TOP, BOTTOM, AND SUPPORT BRACES SHALL NOT DISTURB THE TREE ROOTS.

8.5" x 11" LAMINATED TPZ SIGN FACING THE STREET.

TREE PROTECTION BARRIER
1. Tree Protection Barriers constructed with a solid wood frame are required to define the Tree Protection Zone (TPZ).
2. No construction activity, grade changes, surface treatment or excavation of any kind is permitted within the TPZ.
3. All Tree Protection Barriers shall be in place and approved by the Township prior to construction access.
4. Tree Protection Barriers shall remain in place and in good condition until all construction is complete and approved by the Township.
5. During construction activities the TPZ will be inspected and monitored by and a certified arborist to monitor tree helath.
6. All arboriculture work such as pruning of both branches and roots, shall be done by a qualified tree worker certified by the International Society of Arboriculture (ISA) approved by the Township.
7. Sediment control fencing shall be installed as indicated in the Tree Protection Plan and approved by the Township.

MINNIMUM TPZ DISTANCE FROM THE BASE OF THE TRUNK

< 10cm DBH	1.2m
11 - 19cm DBH	1.8m
20 - 40cm DBH	2.4m
41 - 50cm DBH	3.0m
51 - 60cm DBH	3.6m
61 - 70cm DBH	4.2m
71 - 80cm DBH	4.8m
81 - 90cm DBH	5.4m
91 - 100cm DBH	6.0m
> 100cm DBH	6cm/1cm dia.

TREE PROTECTION ZONE DETAIL

Centre Wellington

1 MacDonald Square
Elora, Ontario, N0B 1S0

Phone (519) 846- 9691

DATE: December 2017
SCALE: NTS
DWG NO. F5

1 TPP6 TREE PROTECTION FENCING

Centre Wellington

Tree Protection Zone (TPZ)

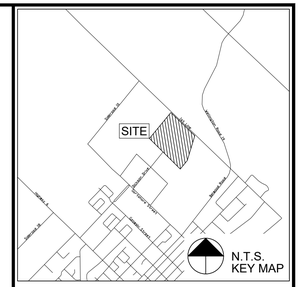
All construction related activities, including grade alteration, excavation, soil compaction, material or equipment storage, disposal of liquids and vehicular access are **PROHIBITED** within the **TPZ**.

The tree protection barrier must not be removed, moved, or altered in any way without the written authorization of the Township.

Concerns or inquiries regarding this **TPZ** can be directed to:

519-846-9691 x218

2 TPP6 TREE PROTECTION SIGNAGE



No.	Description	By	Date
1	ISSUED FOR REVIEW	JD	03 FEB-22
0	ISSUED FOR REVIEW	JD	21 SEP-21

REVISIONS: All previous issues of this drawing are superceded

ABOUD & ASSOCIATES INC.
Consulting Arborists • Ecologists • Landscape Architects
190 Nicklin Road , Guelph , Ontario , N1H 7L5 . 519.822.6839 . www.aboudtng.com

Title:
TREE PRESERVATION DETAILS

Project:
DICKSON DRIVE EXTENSION & MULTI-USE PATH
TOWNSHIP OF CENTRE WELLINGTON

Date: FEBRUARY 2022	Designer: DB
Project: AA21-085A	Drawn: JGL
Scale: N/A	Checked: JD

Drawing No:
TPP6

FILEPATH: \\ABOUDFS01\COMPANY\A-A PROJECTS\2021\APPROVED\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH\MUNICIPAL CLASS EA\DRAWINGS\21-085A DICKSON DRIVE EXTENSION & MULTI-USE PATH TPP 2022-01-31.DWG CTB: GMBP Standard.ctb PLOTTED:3-Feb-22 4:00 PM