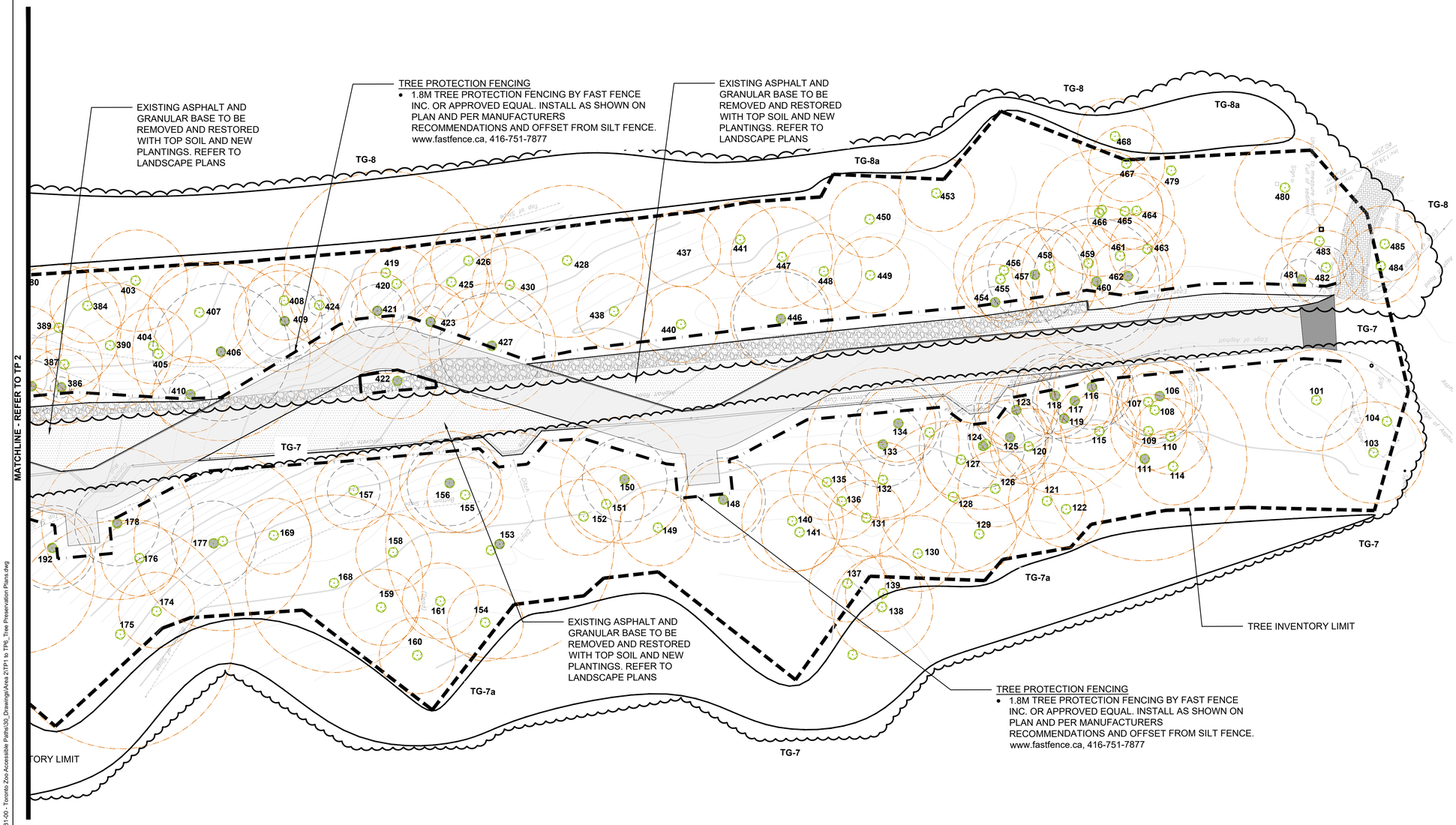


LEGEND:

- LIMIT OF TREE INVENTORY
- 1.8m HIGH TREE PROTECTION HOARDING BY FAST FENCE INC.
- EXISTING INDIVIDUAL SURVEYED TREE
- EXISTING TREE GROUPING
- EXISTING TREE GROUPING TO BE REMOVED
- TREE REMOVAL SYMBOL
- RNFP TREE IDENTIFICATION NUMBER FOR EXISTING TREE TO BE PRESERVED/RETAINED
- RNFP IDENTIFICATION NUMBER FOR EXISTING TREE TO BE INJURED
- MINIMUM TREE PROTECTION ZONE DISTANCE
- APPROXIMATE DRIPLINE (FOR TREES NEAR PROPOSED BOARDWALK)
- EXISTING ASPHALT TO BE REMOVED AND RESTORED WITH TOP SOIL AND NEW PLANTINGS. REFER TO LANDSCAPE DRAWINGS

RNFP BY-LAW NOTE:

- THE TORONTO ZOO, INCLUDING THE STUDY AREA ARE COMPLETELY WITHIN THE RNFP BY-LAW LIMITS. ALL TREES HAVE BEEN ASSESSED PER THIS BY-LAW
- THE ENTIRE SITE IS LOCATED WITHIN THE RAVINE AND NATURAL FEATURE PROTECTION LIMIT. THESE LIMITS EXTENT BEYOND THE SITE LIMITS. SINCE THE ENTIRE AREA IS WITHIN RNFP LIMITS THE RNFP 'HATCH' LAYER HAS NOT BE SHOWN ON THESE DRAWINGS

RAVINE & NATURAL FEATURE PROTECTION BY-LAW

THE ENTIRE STUDY AREA IS LOCATED WITH IN THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW.

THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW, CHAPTER 658 OF THE CITY OF TORONTO MUNICIPAL CODE REGULATES THE INJURY AND DESTRUCTION OF TREES, DUMPING OF REFUSE AND CHANGES TO GRADE WITHIN PROTECTED AREAS.

UNDER THIS BY-LAW PROTECTED TREES MAY NOT BE REMOVED, INJURED OR DESTROYED, AND PROTECTED GRADES MAY NOT BE ALTERED, WITHOUT WRITTEN AUTHORIZATION FROM URBAN FORESTRY RAVINE & NATURAL FEATURE PROTECTION, ON BEHALF OF THE GENERAL MANAGER OF PARKS, FORESTRY & RECREATION.

CONVICTIONS OF OFFENCES RESPECTING THE REGULATIONS IN THE RAVINE AND NATURAL FEATURE PROTECTION BY-LAW ARE SUBJECT TO FINES, AND THE LANDOWNER MAY BE ORDERED BY THE COURT TO RESTORE THE AREA TO THE SATISFACTION OF THE CITY. A PERSON CONVICTED OF AN OFFENCE UNDER THIS BYLAW IS LIABLE TO A MINIMUM FINE OF $500 AND A MAXIMUM FINE OF $100,000 FOR EACH TREE DESTROYED, A MAXIMUM FINE OF $100,000 FOR ANY OTHER OFFENCE COMMITTED UNDER THIS CHAPTER, AND/OR A SPECIAL FINE OF $100,000. A PERSON CONVICTED OF A CONTINUING OFFENCE, INCLUDING FAILURE TO COMPLY WITH RAVINE PERMIT CONDITIONS IS LIABLE TO A MAXIMUM FINE OF NOT MORE THAN $10,000 FOR EACH DAY OR A PART OF A DAY THAT THE OFFENCE CONTINUES

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION PLAN
AREA 2

STAMP

1:200 — 0 1 2 3 4 5 8m

DESIGNED	DRAWN	CHECKED

SCALE 1:200 — DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00 — DWG. NUMBER TP-1

Y:\MM\D\90\2022 11:02 AM
C:\Users\cse\08f539\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\3_Drawings\Area 2\TP1 to TP6_Tree Preservation Plans.dwg

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

LEGEND:

- LIMIT OF TREE INVENTORY
- 1.8m HIGH TREE PROTECTION HOARDING BY FAST FENCE INC.
- EXISTING INDIVIDUAL SURVEYED TREE
- EXISTING TREE GROUPING
- EXISTING TREE GROUPING TO BE REMOVED
- TREE REMOVAL SYMBOL
- RNFP TREE IDENTIFICATION NUMBER FOR EXISTING TREE TO BE PRESERVED/RETAINED
- RNFP IDENTIFICATION NUMBER FOR EXISTING TREE TO BE INJURED
- MINIMUM TREE PROTECTION ZONE DISTANCE
- APPROXIMATE DRIPLINE (FOR TREES NEAR PROPOSED BOARDWALK)
- EXISTING ASPHALT TO BE REMOVED AND RESTORED WITH TOP SOIL AND NEW PLANTINGS. REFER TO LANDSCAPE DRAWINGS

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION PLAN
AREA 2

STAMP

1:200 (0 1 2 3 4 5 8m)

DESIGNED	DRAWN	CHECKED

SCALE 1:200 | DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00 | DWG. NUMBER TP-2

RAVINE & NATURAL FEATURE PROTECTION BY-LAW

THE ENTIRE STUDY AREA IS LOCATED WITH IN THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW.

THE RAVINE & NATURAL FEATURE PROTECTION BY-LAW, CHAPTER 658 OF THE CITY OF TORONTO MUNICIPAL CODE REGULATES THE INJURY AND DESTRUCTION OF TREES, DUMPING OF REFUSE AND CHANGES TO GRADE WITHIN PROTECTED AREAS.

UNDER THIS BY-LAW PROTECTED TREES MAY NOT BE REMOVED, INJURED OR DESTROYED, AND PROTECTED GRADES MAY NOT BE ALTERED, WITHOUT WRITTEN AUTHORIZATION FROM URBAN FORESTRY RAVINE & NATURAL FEATURE PROTECTION, ON BEHALF OF THE GENERAL MANAGER OF PARKS, FORESTRY & RECREATION.

CONVICTIONS OF OFFENCES RESPECTING THE REGULATIONS IN THE RAVINE AND NATURAL FEATURE PROTECTION BY-LAW ARE SUBJECT TO FINES, AND THE LANDOWNER MAY BE ORDERED BY THE COURT TO RESTORE THE AREA TO THE SATISFACTION OF THE CITY. A PERSON CONVICTED OF AN OFFENCE UNDER THIS BYLAW IS LIABLE TO A MINIMUM FINE OF $500 AND A MAXIMUM FINE OF $100,000 FOR EACH TREE DESTROYED, A MAXIMUM FINE OF $100,000 FOR ANY OTHER OFFENCE COMMITTED UNDER THIS CHAPTER, AND/OR A SPECIAL FINE OF $100,000. A PERSON CONVICTED OF A CONTINUING OFFENCE, INCLUDING FAILURE TO COMPLY WITH RAVINE PERMIT CONDITIONS IS LIABLE TO A MAXIMUM FINE OF NOT MORE THAN $10,000 FOR EACH DAY OR A PART OF A DAY THAT THE OFFENCE CONTINUES

RNFP BY-LAW NOTE:

- THE TORONTO ZOO, INCLUDING THE STUDY AREA ARE COMPLETELY WITHIN THE RNFP BY-LAW LIMITS. ALL TREES HAVE BEEN ASSESSED PER THIS BY-LAW
- THE BOUNDARY OF THE RNFP BY-LAW HAS NOT BEEN SHOWN AS THE WHOLE SITE IS WITHIN THIS LIMIT

Y:\MM\D\20\20\2022 11:02 AM
C:\Users\cazb0595\36\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\30_Drawings\Area 21\P1 to TP6_Tree Preservation Plans.dwg

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
101	*Acer platanoides*	Norway Maple	1	37	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	Exposed roots
102	*Acer saccharum*	Sugar Maple	1	33	G	G	G	3	Private / RNFP	1 / 4	4.8	Preserve	Included bark
103	*Acer saccharum*	Sugar Maple	1	33	G	G	G	3	Private / RNFP	1 / 4	4.8	Preserve	
104	*Acer saccharum*	Sugar Maple	1	27	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
105	*Betula papyrifera*	Paper Birch	1	10	F	G	G	0.5	Private / RNFP	1 / 4	3.6	Preserve	lean
106	*Ostrya virginiana*	Ironwood	1	14	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
107	*Ostrya virginiana*	Ironwood	1	13	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
108	*Ostrya virginiana*	Ironwood	1	15	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
109	*Ostrya virginiana*	Ironwood	1	17	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
110	*Ostrya virginiana*	Ironwood	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
111	*Acer saccharum*	Sugar Maple	1	75	G	F	G	6	Private / RNFP	1 / 4	9.6	Preserve	Galls, lean
112	*Prunus serotina*	Black Cherry	1	25	G	F	G	3	Private / RNFP	1 / 4	3.6	Preserve	lean
113	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
114	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
115	*Ostrya virginiana*	Ironwood	1	11	G	F	G	1	Private / RNFP	1 / 4	3.6	Preserve	
116	*Ostrya virginiana*	Ironwood	1	10	G	G	G	0.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
117	*Ostrya virginiana*	Ironwood	1	12	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
118	*Acer saccharum*	Sugar Maple	1	15	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
119	*Acer saccharum*	Sugar Maple	1	55	G	G	G	4	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
120	*Ostrya virginiana*	Ironwood	1	12	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
121	*Ostrya virginiana*	Ironwood	1	15	F	P	P	0.5	Private / RNFP	1 / 4	3.6	Preserve	
122	*Ostrya virginiana*	Ironwood	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
123	*Ostrya virginiana*	Ironwood	1	21	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
124	*Acer saccharum*	Sugar Maple	1	43, 14	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	
125	*Betula papyrifera*	Paper Birch	1	27	G	G	G	3	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
126	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
127	*Acer saccharum*	Sugar Maple	1	20	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	
128	*Acer saccharum*	Sugar Maple	1	53	G	G	G	5	Private / RNFP	1 / 4	7.2	Preserve	
129	*Ostrya virginiana*	Ironwood	1	25	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
130	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
131	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
132	*Acer saccharum*	Sugar Maple	1	20	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
133	*Acer saccharum*	Sugar Maple	1	52	G	G	G	5	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
134	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
135	*Acer saccharum*	Sugar Maple	1	22	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
136	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
137	*Acer saccharum*	Sugar Maple	1	15	F	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	Shoots from trunk
138	*Acer saccharum*	Sugar Maple	1	31	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
139	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
140	*Acer saccharum*	Sugar Maple	1	31	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
141	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
142	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
143	*Acer saccharum*	Sugar Maple	1	65	G	G	G	7	Private / RNFP	1 / 4	8.4	Preserve	
144	*Acer saccharum*	Sugar Maple	1	66, 30	G	G	G	7	Private / RNFP	1 / 4	8.4	Preserve	
145	*Acer saccharum*	Sugar Maple	1	50	G	G	G	6	Private / RNFP	1 / 4	6.0	Preserve	
146	*Acer saccharum*	Sugar Maple	1	25	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
147	*Acer saccharum*	Sugar Maple	1	70	F	F/P	G	7	Private / RNFP	1 / 4	8.4	Preserve	Cavity, canopy growth to one side
148	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
149	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
150	*Ostrya virginiana*	Ironwood	1	43	P	P	P	5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	Several galls on trunk, epicormic growth
151	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
152	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
153	*Acer saccharum*	Sugar Maple	1	80, 18	G	G	G	7.5	Private / RNFP	1 / 4	10.8	Preserve	lean
154	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
155	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
156	*Acer saccharum*	Sugar Maple	1	30	G	G	G	4	Private / RNFP	1 / 4	4.8	Remove	
157	*Fagus grandifolia*	American Beech	1	17	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	Beech bark disease (BBD)
158	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
159	*Fagus grandifolia*	American Beech	1	11	F	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	BBD
160	*Acer saccharum*	Sugar Maple	1	16	G	F/P	G	2	Private / RNFP	1 / 4	3.6	Preserve	
161	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
162	*Acer saccharum*	Sugar Maple	1	53	G	G	G	6	Private / RNFP	1 / 4	7.2	Preserve	
163	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
164	*Acer saccharum*	Sugar Maple	1	25	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
165	*Acer saccharum*	Sugar Maple	1	66	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Preserve	
166	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
167	*Acer saccharum*	Sugar Maple	1	70	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Preserve	
168	*Acer saccharum*	Sugar Maple	1	70	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Minimum TPZ reduction / Injury	
169	*Acer saccharum*	Sugar Maple	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
170	*Acer saccharum*	Sugar Maple	1	25	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
171	*Fagus grandifolia*	American Beech	1	10	F	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	BBD
172	*Acer saccharum*	Sugar Maple	1	50	G	G	G	6	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	lean
173	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
174	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
175	*Acer saccharum*	Sugar Maple	1	86	G	G	G	7.5	Private / RNFP	1 / 4	10.8	Preserve	
176	*Acer saccharum*	Sugar Maple	1	26	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
177	*Acer saccharum*	Sugar Maple	1	70, 12	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Minimum TPZ reduction / Injury	
178	*Acer saccharum*	Sugar Maple	1	52	G	G	G	6	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
179	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
180	*Acer saccharum*	Sugar Maple	1	35	F	F	F	4	Private / RNFP	1 / 4	4.8	Preserve	Irregular bark, dead tree leaning into it, canopy unbalanced
181	*Acer saccharum*	Sugar Maple	1	46	G	G	G	5	Private / RNFP	1 / 4	6.0	Preserve	
182	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
183	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
184	*Acer saccharum*	Sugar Maple	1	75	G	G	G	7	Private / RNFP	1 / 4	9.6	Preserve	
185	*Acer saccharum*	Sugar Maple	1	30	F/P	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	Eutypella canker
186	*Acer saccharum*	Sugar Maple	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
187	*Acer saccharum*	Sugar Maple	1	36	G	F	G	4	Private / RNFP	1 / 4	4.8	Preserve	
188	*Acer saccharum*	Sugar Maple	1	50	G	G	G	6	Private / RNFP	1 / 4	6.0	Preserve	
189	*Acer saccharum*	Sugar Maple	1	26	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
190	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
191	*Acer saccharum*	Sugar Maple	1	52	G	G	G	6	Private / RNFP	1 / 4	7.2	Preserve	
192	*Acer saccharum*	Sugar Maple	1	27	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
193	*Acer saccharum*	Sugar Maple	1	14	G	P	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	Heavy lean
194	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
195	*Acer saccharum*	Sugar Maple	1	33	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
196	*Acer saccharum*	Sugar Maple	1	19	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
197	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
198	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
199	*Quercus rubra*	Red Oak	1	85	G	G	G	7.5	Private / RNFP	1 / 4	10.8	Minimum TPZ reduction / Injury	
200	*Quercus rubra*	Red Oak	1	75	G	F	G	7	Private / RNFP	1 / 4	9.6	Minimum TPZ reduction / Injury	
201	*Acer saccharum*	Sugar Maple	1	26	G	G	G	3	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
202	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
203	*Acer saccharum*	Sugar Maple	1	39	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
204	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
205	*Acer saccharum*	Sugar Maple	1	42	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Preserve	
206	*Acer saccharum*	Sugar Maple	1	60	G	G	G	6.5	Private / RNFP	1 / 4	7.2	Preserve	
207	*Acer saccharum*	Sugar Maple	1	32	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
208	*Acer saccharum*	Sugar Maple	1	12	P	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
209	*Acer saccharum*	Sugar Maple	1	30	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
210	*Acer saccharum*	Sugar Maple	1	19	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
211	*Acer saccharum*	Sugar Maple	1	13	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
212	*Fagus grandifolia*	American Beech	1	34	F-P	F	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	BBD, trunk carved
213	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
214	*Acer saccharum*	Sugar Maple	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
215	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Remove	
216	*Acer saccharum*	Sugar Maple	1	12	P	F	F	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Galls
217	*Acer saccharum*	Sugar Maple	1	±105	G	G	G	8	Private / RNFP	1 / 4	12.6	Minimum TPZ reduction / Injury	lean
218	*Acer saccharum*	Sugar Maple	1	52	G	G	G	6	Private / RNFP	1 / 4	7.2	Preserve	
219	*Acer saccharum*	Sugar Maple	1	19	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
220	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Remove	
221	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
222	*Acer saccharum*	Sugar Maple	1	46	G	G	G	5	Private / RNFP	1 / 4	6.0	Remove	
223	*Acer saccharum*	Sugar Maple	1	31	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
224	*Acer saccharum*	Sugar Maple	1	17	F	F	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Large dead branch
225	*Acer saccharum*	Sugar Maple	1	25	G	F	G	3	Private / RNFP	1 / 4	3.6	Preserve	Unbalanced canopy
226	*Quercus rubra*	Red Oak	1	100	F	G	G	7.5	Private / RNFP	1 / 4	12.0	Minimum TPZ reduction / Injury	Dead and broken stem, wound
227	*Acer saccharum*	Sugar Maple	1	27	G	G	G	3	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
228	*Acer saccharum*	Sugar Maple	1	10	G	G	G	1	Private / RNFP	1 / 4	3.6	Remove	
229	*Acer saccharum*	Sugar Maple	1	13	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Unbalanced canopy - leaning towards path
230	*Acer saccharum*	Sugar Maple	1	34	G	F	G	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	Unbalanced canopy - leaning towards path
231	*Acer saccharum*	Sugar Maple	1	23	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Unbalanced canopy - leaning towards path
232	*Acer saccharum*	Sugar Maple	1	10	G	F	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Unbalanced canopy - leaning towards path
233	*Fraxinus sp.*	Ash sp.	1	11	F	F	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Unbalanced canopy - leaning towards path, lean, EAB
234	*Tilia americana*	Basswood	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
235	*Ulmus americana*	American Elm	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
236	*Quercus rubra*	Red Oak	1	28	G	F	G	3.5	Private / RNFP	1 / 4	3.6	Remove	
237	*Tilia americana*	Basswood	1	35	G	G	G	4	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
238	*Tilia americana*	Basswood	1	33, 11	G	G	G	4	Private / RNFP	1 / 4	4.8	Remove	
239	*Acer saccharum*	Sugar Maple	1	65	F	F	G	6.5	Private / RNFP	1 / 4	8.4	Minimum TPZ reduction / Injury	Cavity
240	*Acer saccharum*	Sugar Maple	1	50	G	F	F	6	Private / RNFP	1 / 4	6.0	Preserve	

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION TABLES
AREA 2

STAMP

DESIGNED | DRAWN | CHECKED

SCALE | DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00 | DWG. NUMBER TP-3

Y:\MM\DP\20\2022 11:02 AM
C:\Users\ca06953\WSP O365\Thornhill LAUD - Documents\202020M-00631-00 - Toronto Zoo Accessible Paths\30_Drawings\Area 2\TP1 to TP6_Tree Preservation Plans.dwg

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
241	*Acer saccharum*	Sugar Maple	1	33, 8, 58	G	G	G	6.5	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
242	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
243	*Tilia americana*	Basswood	1	35	G	G	G	4	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
244	*Tilia americana*	Basswood	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
245	*Prunus serotina*	Black Cherry	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	Lean, black knot
246	*Ulmus americana*	American Elm	1	25, 26	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	Exposed roots, close to path
247	*Tilia americana*	Basswood	1	47	G	G	G	5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	
248	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
249	*Ostrya virginiana*	Ironwood	1	10	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
250	*Ostrya virginiana*	Ironwood	1	70	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Preserve	
251	*Ostrya virginiana*	Ironwood	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
252	*Ostrya virginiana*	Ironwood	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
253	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
254	*Rhus typhina*	Staghorn Sumac	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
255	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
256	*Prunus serotina*	Black Cherry	1	10	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
257	*Fagus grandifolia*	American Beech	1	20	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
258	*Fagus grandifolia*	American Beech	1	22	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
259	*Fagus grandifolia*	American Beech	1	19	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
260	*Acer saccharum*	Sugar Maple	1	50	G	G	G	6	Private / RNFP	1 / 4	6.0	Preserve	broken branch
261	*Acer saccharum*	Sugar Maple	1	29	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
262	*Acer saccharum*	Sugar Maple	1	55	F/P	G	G	6	Private / RNFP	1 / 4	7.2	Preserve	Cavity, broken branch
263	*Ostrya virginiana*	Ironwood	1	12	G	G	F	1.5	Private / RNFP	1 / 4	3.6	Preserve	
264	*Ostrya virginiana*	Ironwood	1	16	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	
265	*Fagus grandifolia*	American Beech	1	21	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD. Lean
266	*Fagus grandifolia*	American Beech	1	28	F	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
267	*Fagus grandifolia*	American Beech	1	13	F	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
268	*Fagus grandifolia*	American Beech	1	20	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
269	*Fagus grandifolia*	American Beech	1	20	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
270	*Fagus grandifolia*	American Beech	1	5, 18	F	G	F	2	Private / RNFP	1 / 4	3.6	Preserve	BBD, dead branches
271	*Fagus grandifolia*	American Beech	1	13	F	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
272	*Fagus grandifolia*	American Beech	1	28	F	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	BBD, lean
273	*Fagus grandifolia*	American Beech	1	34	F	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	BBD
274	*Fagus grandifolia*	American Beech	1	34	F	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	BBD
275	*Fagus grandifolia*	American Beech	1	16	F	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	BBD
276	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
277	*Quercus rubra*	Red Oak	1	43	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Preserve	
278	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
279	*Ulmus sp.*	Elm sp.	1	30	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
280	*Quercus rubra*	Red Oak	1	50	G	F	G	6	Private / RNFP	1 / 4	6.0	Preserve	lean
281	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
282	*Acer saccharum*	Sugar Maple	1	27	G	F	G	3	Private / RNFP	1 / 4	3.6	Preserve	leaning into canopy of 281
283	*Tilia americana*	Basswood	1	33	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
284	*Acer saccharum*	Sugar Maple	1	28	G	F	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	Unbalanced canopy
285	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
286	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
287	*Tilia americana*	Basswood	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
288	*Rhus typhina*	Staghorn Sumac	1	17	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
289	*Betula papyrifera*	Paper Birch	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
290	*Betula papyrifera*	Paper Birch	1	19	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
291	*Tilia americana*	Basswood	1	9, 9, 9	G	G	G	1	Private / RNFP	1 / 4	1.2	Preserve	
292	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
TG-1	*Fraxinus americana*	White Ash	54	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Rhamnus cathartica*	Common Buckthorn	21	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Acer saccharum*	Sugar Maple	8	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Remove	
TG-1	*Acer saccharum*	Sugar Maple	50	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Ostrya virginiana*	Ironwood	6	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Tilia americana*	Basswood	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Ulmus sp.*	Elm sp.	3	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Cornus alternifolia*	Alternate-leaved Dogwood	46	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Euonymus sp.*	Spindle Tree sp.	14	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Fagus grandifolia*	American Beech	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Celtis occidentalis*	Common Hackberry	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Acer platanoides*	Norway Maple	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-1	*Prunus serotina*	Black Cherry	10	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
TG-2	*Fraxinus sp.*	Ash sp.	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Remove	
TG-2	*Fraxinus sp.*	Ash sp.	54	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Rhamnus cathartica*	Common Buckthorn	13	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Acer saccharum*	Sugar Maple	12	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Remove	
TG-2	*Acer saccharum*	Sugar Maple	63	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Ostrya virginiana*	Ironwood	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Tilia americana*	Basswood	8	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Ulmus sp.*	Elm sp.	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Cornus alternifolia*	Alternate-leaved Dogwood	8	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Euonymus sp.*	Spindle Tree sp.	3	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Fagus grandifolia*	American Beech	4	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Remove	
TG-2	*Fagus grandifolia*	American Beech	10	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Carya cordiformis*	Bitternut Hickory	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-2	*Prunus serotina*	Black Cherry	14	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
Between Path Fork and Picnic Area													
293	*Acer saccharum*	Sugar Maple	1	31	P	F/P	F	3.5	Private / RNFP	1 / 4	4.8	Preserve	
294	*Salix sp.*	Willow sp.	1	58	G	P	F	6	Private / RNFP	1 / 4	7.2	Preserve	
295	*Salix sp.*	Willow sp.	1	63	G	P	F	6.5	Private / RNFP	1 / 4	8.4	Preserve	
296	*Picea glauca*	White Spruce	1	27	G	F	F	3	Private / RNFP	1 / 4	3.6	Preserve	
297	*Pinus sylvestris*	Scots Pine	1	30	G	F	F	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
298	*Tilia americana*	Basswood	1	24	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	
299	*Acer saccharum*	Sugar Maple	1	17	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
300	*Pinus sylvestris*	Scots Pine	1	27	G	F	F	3	Private / RNFP	1 / 4	3.6	Preserve	
301	*Pinus sylvestris*	Scots Pine	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
302	*Pinus sylvestris*	Scots Pine	1	17	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
303	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
304	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
305	*Acer saccharum*	Sugar Maple	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
306	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
307	*Acer saccharum*	Sugar Maple	1	22, 32	G	G	G	4	Private / RNFP	1 / 4	4.8	Preserve	codominant
308	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
309	*Pinus sylvestris*	Scots Pine	1	19, 20	G	G	G	3	Private / RNFP	1 / 4	3.6	Preserve	codominant. Included bark
310	*Acer saccharum*	Sugar Maple	1	10	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
311	*Pinus sylvestris*	Scots Pine	1	22	F	P	F	2.5	Private / RNFP	1 / 4	3.6	Preserve	
312	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
313	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
314	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
315	*Pinus sylvestris*	Scots Pine	1	28	F	P	F	3.5	Private / RNFP	1 / 4	3.6	Preserve	
316	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
317	*Acer saccharum*	Sugar Maple	1	25	G	G	G	3	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
318	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
319	*Acer saccharum*	Sugar Maple	1	27	G	G	G	3	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
320	*Tilia americana*	Basswood	1	31	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
321	*Acer saccharum*	Sugar Maple	1	95	G	G	G	7.5	Private / RNFP	1 / 4	12.0	Retain	Behind building
322	*Pinus strobus*	White Pine	1	75	G	G	G	7	Private / RNFP	1 / 4	9.6	Retain	girdling
323	*Thuja occidentalis*	White Cedar	1	35	G	G	G	4	Private / RNFP	1 / 4	4.8	Retain	
324	*Pinus sylvestris*	Scots Pine	1	28	G	F	F	3.5	Private / RNFP	1 / 4	3.6	Retain	
325	*Pinus sylvestris*	Scots Pine	1	25	G	F	F	3	Private / RNFP	1 / 4	3.6	Retain	
326	*Pinus sylvestris*	Scots Pine	1	35	G	F	G	4	Private / RNFP	1 / 4	4.8	Retain	Exposed roots
327	*Thuja occidentalis*	White Cedar	1	39	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Retain	Exposed roots
328	*Pinus strobus*	White Pine	1	48	G	G	F	5	Private / RNFP	1 / 4	6.0	Retain	
329	*Picea glauca*	White Spruce	1	37	G	G	G	4	Private / RNFP	1 / 4	4.8	Retain	
TG-3	*Rhus typhina*	Staghorn Sumac	5	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Lonicera sp.*	Honeysucke sp.	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Fraxinus sp.*	Ash sp.	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Fraxinus sp.*	Ash sp.	10	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Rhamnus cathartica*	Common Buckthorn	8	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Rhamnus cathartica*	Common Buckthorn	±40	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Syringa vulgaris*	Common Lilac	±20	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Acer saccharum*	Sugar Maple	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Acer saccharum*	Sugar Maple	21	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Cornus alternifolia*	Alternate-leaved Dogwood	3	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-3	*Prunus serotina*	Black Cherry	10	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-4	*Fraxinus sp.*	Ash sp.	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Retain	
TG-4	*Syringa vulgaris*	Common Lilac	4	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Retain	

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION TABLES
AREA 2

STAMP

DESIGNED | DRAWN | CHECKED

SCALE | DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00

DWG. NUMBER TP-4

Y:\MMD\09\20\2022 11:02 AM
C:\Users\cacb06953\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\3D_Drawings\Area 2\TP1 to TP6_Tree Preservation Plans.dwg

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
West Side of Trail													
330	*Catalpa speciosa*	Northern Catalpa	1	48	G	G	G	5	Private / RNFP	1 / 4	6.0	Preserve	
331	*Catalpa speciosa*	Northern Catalpa	1	48	F	G	G	5	Private / RNFP	1 / 4	6.0	Preserve	Lean, cavities, exposed roots
332	*Catalpa speciosa*	Northern Catalpa	1	60	G	G	G	6.5	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
333	*Quercus rubra*	Red Oak	1	31	G	G	F	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	dead branches
334	*Rhus typhina*	Staghorn Sumac	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	dead branch, vine
335	*Rhus typhina*	Staghorn Sumac	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	vine
336	*Betula papyrifera*	Paper Birch	1	21	G	F	F	2.5	Private / RNFP	1 / 4	3.6	Preserve	broken branch, vine
337	*Catalpa speciosa*	Northern Catalpa	1	25, 17, 17	G	F/P	F	4	Private / RNFP	1 / 4	3.6	Preserve	heavy vine throughout canopy, conflict with other tree
338	*Betula papyrifera*	Paper Birch	1	20	G	F	F	2.5	Private / RNFP	1 / 4	3.6	Preserve	Vine
339	*Betula papyrifera*	Paper Birch	1	17	G	F	F	2	Private / RNFP	1 / 4	3.6	Preserve	Vine
340	*Rhus typhina*	Staghorn Sumac	1	11	G	F	F	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Vine
341	*Quercus rubra*	Red Oak	1	16	G	F/P	F/P	2	Private / RNFP	1 / 4	3.6	Preserve	Heavy vine
342	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
343	*Acer saccharum*	Sugar Maple	1	88	P	P	P	7.5	Private / RNFP	1 / 4	10.8	Minimum TPZ reduction / Injury	3/4 dead, large cavity through more than half the trunk
344	*Acer saccharum*	Sugar Maple	1	14	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	lean, vine
345	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
346	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
347	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
348	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
349	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
350	*Tilia americana*	Basswood	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
351	*Acer saccharum*	Sugar Maple	1	30	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
352	*Acer saccharum*	Sugar Maple	1	38	G	G	G	4	Private / RNFP	1 / 4	4.8	Minimum TPZ reduction / Injury	
353	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
354	*Ulmus sp.*	Elm sp.	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
355	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
356	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
357	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
358	*Tilia americana*	Basswood	1	10	F	F/P	F/P	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
359	*Acer saccharum*	Sugar Maple	1	22	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	heavy vine
360	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
361	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
362	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
363	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
364	*Tilia americana*	Basswood	1	31, 26	F/P	F	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
365	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
366	*Acer saccharum*	Sugar Maple	1	15	G	F	F	2	Private / RNFP	1 / 4	3.6	Preserve	Heavy vine
367	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
368	*Tilia americana*	Basswood	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
369	*Ulmus sp.*	Elm sp.	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Close to path
370	*Fagus grandifolia*	American Beech	1	43	F	F	G	4.5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	BBD
371	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
372	*Acer saccharum*	Sugar Maple	1	±95	G	F	G	7.5	Private / RNFP	1 / 4	12.0	Minimum TPZ reduction / Injury	
373	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
374	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Remove	
375	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
376	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
377	*Acer saccharum*	Sugar Maple	1	22	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
378	*Quercus rubra*	Red Oak	1	52, 60	G	G	G	7.5	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
379	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
380	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
381	*Acer saccharum*	Sugar Maple	1	80	G	G	G	7	Private / RNFP	1 / 4	9.6	Preserve	
382	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
383	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
384	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
385	*Acer saccharum*	Sugar Maple	1	18	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
386	*American Elm*	American Elm	1	11	G	F	G	1	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Canopy towards path
387	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
388	*Acer saccharum*	Sugar Maple	1	10	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	conflict with another canopy
389	*Acer saccharum*	Sugar Maple	1	44, 16	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Preserve	
390	*Fagus grandifolia*	American Beech	1	44	F/P	F	F	5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	BBD

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
391	*Acer saccharum*	Sugar Maple	1	33	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
392	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
393	*Acer saccharum*	Sugar Maple	1	10	G	F	G	1	Private / RNFP	1 / 4	3.6	Preserve	
394	*Acer saccharum*	Sugar Maple	1	31	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
395	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
396	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
397	*Acer saccharum*	Sugar Maple	1	23	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
398	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
399	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
400	*Fagus grandifolia*	American Beech	1	20	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
401	*Acer saccharum*	Sugar Maple	1	17	F/P	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	BBD
402	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
403	*Fagus grandifolia*	American Beech	1	38	F	F	G	4	Private / RNFP	1 / 4	4.8	Preserve	BBD
404	*Acer saccharum*	Sugar Maple	1	19	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
405	*Acer saccharum*	Sugar Maple	1	22	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	Canopy leaning towards path
406	*Acer saccharum*	Sugar Maple	1	65	G	F	G	6.5	Private / RNFP	1 / 4	8.4	Minimum TPZ reduction / Injury	
407	*Acer saccharum*	Sugar Maple	1	31	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
408	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
409	*Acer saccharum*	Sugar Maple	1	31	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	
410	*Acer saccharum*	Sugar Maple	1	16	F	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	Growing on slope, exposed roots, close to path
411	*Acer saccharum*	Sugar Maple	1	29	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
412	*Acer saccharum*	Sugar Maple	1	23	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
413	*Acer saccharum*	Sugar Maple	1	14	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
414	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
415	*Fagus grandifolia*	American Beech	1	18	F	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
416	*Fagus grandifolia*	American Beech	1	39	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	BBD
417	*Acer saccharum*	Sugar Maple	1	80	G	F	G	7	Private / RNFP	1 / 4	9.6	Preserve	
418	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
419	*Acer saccharum*	Sugar Maple	1	80	G	G	G	7	Private / RNFP	1 / 4	9.6	Minimum TPZ reduction / Injury	
420	*Acer saccharum*	Sugar Maple	1	16	G	F	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
421	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
422	*Acer saccharum*	Sugar Maple	1	25	F	G	G	3	Private / RNFP	1 / 4	3.6	Remove	Exposed roots, close to path, small wound
423	*Acer saccharum*	Sugar Maple	1	14	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	Canopy towards path
424	*Fagus grandifolia*	American Beech	1	10	F	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	BBD
425	*Fagus grandifolia*	American Beech	1	13	F	F/P	F	1.5	Private / RNFP	1 / 4	3.6	Preserve	BBD, top off
426	*Fagus grandifolia*	American Beech	1	12	F	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
427	*Acer saccharum*	Sugar Maple	1	46	G	G	G	5	Private / RNFP	1 / 4	6.0	Preserve	
428	*Acer saccharum*	Sugar Maple	1	55	G	G	G	6	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
429	*Acer saccharum*	Sugar Maple	1	62	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Preserve	
430	*Fagus grandifolia*	American Beech	1	12	F/P	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	BBD
431	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
432	*Acer saccharum*	Sugar Maple	1	24	G	F	G	3	Private / RNFP	1 / 4	3.6	Preserve	
433	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
434	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
435	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
436	*Acer saccharum*	Sugar Maple	1	±95	G	G	G	7.5	Private / RNFP	1 / 4	12.0	Minimum TPZ reduction / Injury	
437	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
438	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
439	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
440	*Acer saccharum*	Sugar Maple	1	16	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
441	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
442	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
443	*Acer saccharum*	Sugar Maple	1	22	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
444	*Acer saccharum*	Sugar Maple	1	70	G	G	G	6.5	Private / RNFP	1 / 4	8.4	Preserve	
445	*Acer saccharum*	Sugar Maple	1	13	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
446	*Acer saccharum*	Sugar Maple	1	39	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
447	*Acer saccharum*	Sugar Maple	1	35	G	F	G	4	Private / RNFP	1 / 4	4.8	Preserve	Canopy over path
448	*Acer saccharum*	Sugar Maple	1	17	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	Canopy over path
449	*Acer saccharum*	Sugar Maple	1	29	G	F	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	Canopy over path
450	*Acer saccharum*	Sugar Maple	1	15	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
451	*Acer saccharum*	Sugar Maple	1	42	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	
452	*Acer saccharum*	Sugar Maple	1	85	G	G	G	7.5	Private / RNFP	1 / 4	10.8	Preserve	
453	*Acer saccharum*	Sugar Maple	1	11	F/P	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	Eutypella canker
454	*Acer saccharum*	Sugar Maple	1	12	G	F/P	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	Canopy over path, unbalanced

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION TABLES
AREA 2

STAMP

DESIGNED | DRAWN | CHECKED

SCALE | DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00 | DWG. NUMBER TP-5

Y:\MM\D\920\2022 11:02 AM
C:\Users\cacd06953\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\30_Drawings\Area 2\TP1 to TP5_Tree Preservation Plans.dwg

TREE PRESERVATION TABLE

Tree #	Botanical Name	Common Name	Qty	DBH (cm)	Tree Condition			Dripline Radius (m)	Tree Location / Applicable By-law	City of Toronto Category	Tree Protection Zone	Recommendation	Comments / Health
					TI	CS	CV						
455	*Acer saccharum*	Sugar Maple	1	20	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
456	*Acer saccharum*	Sugar Maple	1	40	G	G	G	4.5	Private / RNFP	1 / 4	4.8	Preserve	
457	*Acer saccharum*	Sugar Maple	1	41	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Preserve	
458	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
459	*Acer saccharum*	Sugar Maple	1	24	G	F	G	3	Private / RNFP	1 / 4	3.6	Preserve	Canopy unbalanced towards path
460	*Acer saccharum*	Sugar Maple	1	52	G	F	G	6	Private / RNFP	1 / 4	7.2	Preserve	Canopy unbalanced towards path
461	*Acer saccharum*	Sugar Maple	1	17	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	Canopy unbalanced towards path
462	*Acer saccharum*	Sugar Maple	1	11	G	F	G	1	Private / RNFP	1 / 4	3.6	Preserve	Canopy unbalanced towards path
463	*Acer saccharum*	Sugar Maple	1	28	G	G	G	3.5	Private / RNFP	1 / 4	3.6	Preserve	
464	*Acer saccharum*	Sugar Maple	1	12	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
465	*Ostrya virginiana*	Ironwood	1	17	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	
466	*Acer saccharum*	Sugar Maple	1	14, 42	G	G	G	4.5	Private / RNFP	1 / 4	6.0	Minimum TPZ reduction / Injury	
467	*Acer saccharum*	Sugar Maple	1	16	G	F	G	2	Private / RNFP	1 / 4	3.6	Preserve	
468	*Acer saccharum*	Sugar Maple	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
469	*Acer saccharum*	Sugar Maple	1	14	G	F	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
470	*Acer saccharum*	Sugar Maple	1	21	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
471	*Acer saccharum*	Sugar Maple	1	49	G	F	G	5	Private / RNFP	1 / 4	6.0	Preserve	
472	*Acer saccharum*	Sugar Maple	1	21	G	G	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
473	*Acer saccharum*	Sugar Maple	1	55	G	G	G	6	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	
474	*Acer saccharum*	Sugar Maple	1	11	G	P	P	1	Private / RNFP	1 / 4	3.6	Preserve	topped
475	*Acer saccharum*	Sugar Maple	1	12	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	
476	*Acer saccharum*	Sugar Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	
477	*Acer saccharum*	Sugar Maple	1	19	G	F	G	2.5	Private / RNFP	1 / 4	3.6	Preserve	
478	*Acer saccharum*	Sugar Maple	1	58, 34, 32	G	G	G	7	Private / RNFP	1 / 4	7.2	Minimum TPZ reduction / Injury	Used to hang décor
479	*Betula papyrifera*	Paper Birch	1	20	G	F/P	F	2.5	Private / RNFP	1 / 4	3.6	Preserve	Heavy lean
480	*Betula papyrifera*	Paper Birch	1	34	G	G	G	3.5	Private / RNFP	1 / 4	4.8	Preserve	Used to hang décor
481	*Aesculus glabra*	Ohio Buckeye	1	17, 11	G	G	G	2	Private / RNFP	1 / 4	3.6	Minimum TPZ reduction / Injury	
482	*Aesculus glabra*	Ohio Buckeye	1	13, 13	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	
483	*Acer negundo*	Manitoba Maple	1	11	G	G	G	1	Private / RNFP	1 / 4	3.6	Preserve	Vine
484	*Aesculus glabra*	Ohio Buckeye	1	14	G	G	G	1.5	Private / RNFP	1 / 4	3.6	Preserve	In separate planter
485	*Aesculus glabra*	Ohio Buckeye	1	12, 10	G	G	G	2	Private / RNFP	1 / 4	3.6	Preserve	In separate planter
TG-5	*Fraxinus sp.*	Ash sp.	3	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Fraxinus sp.*	Ash sp.	61	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Quercus rubra*	Red Oak	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Rhus typhina*	Staghorn Sumac	11	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Rhamnus cathartica*	Common Buckthorn	51	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Acer saccharum*	Sugar Maple	4	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Remove	
TG-5	*Acer saccharum*	Sugar Maple	95	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Catalpa speciosa*	Northern Catalpa	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Cornus alternifolia*	Alternate-leaved Dogwood	67	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Prunus serotina*	Black Cherry	40	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Tilia americana*	Basswood	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Ulmus sp.*	Elm sp.	4	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Euonymus sp.*	Spindle Tree sp.	±120	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Ostrya virginiana*	Ironwood	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Fagus grandifolia*	American Beech	28	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Betula papyrifera*	Paper Birch	2	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	
TG-5	*Lonicera sp.*	Honeysucke sp.	1	<10	G	G	G	0.5	Private / RNFP	1 / 4	1.2	Preserve	

TREE PRESERVATION TABLE COLOUR LEGEND

- TREE TO BE RETAINED
- TREE TO BE PRESERVED
- TREE TO BE REMOVED RELATED TO CONSTRUCTION
- TREE TO BE PRESERVED / INJURED

TREE PRESERVATION TABLE LEGEND

Tree Assessment Criteria:

Trunk Integrity (T.I.): this is an assessment of the trunk for any defects or weaknesses .It is measured on a scale of poor, fair, good.

Canopy Structure (C.S.): this is an assessment of the scaffold branches, unions and the canopy of the tree. This is measured on a scale of poor, fair, good.

Canopy Vigour (C.V.): this is an assessment of the health of the tree and assess the amount of deadwood and the live growth in the crown as compared to a 100% healthy tree. the size, colour and amount of foliage are also considered in this category. This is measured on a scale of poor, fair, good.

Tree Location:

RNFP / TRCA: Stem of tree is located entirely on within the Ravine and Natural Feature Protection by-law
Private: Stem of tree is located entirely on private property
Park: Stem of tree is located entirely within City owned Parkland
City: Stem of tree is located entirely within the municipal right of way

Tree Condition:

G: Good - tree displays less than 15% deficiency / defect within the given tree assessment criteria (TI,CS,CV)
F: Fair - tree displays 15-50% deficiency / defect within the given tree assessment criteria (TI,CS,CV)
P: Poor - tree displays greater than 40% deficiency / defect within the given tree assessment criteria (TI,CS,CV)
D: Dead - tree displays 100% deficiency / defect within the canopy vigour tree assessment criteria

CITY OF TORONTO TREE CATAGORIES

1. TREES WITH DIAMETERS OF 30cm OR MORE, SITUATED ON PRIVATE PROPERTY ON THE SUBJECT SITE
2. TREES WITH DIAMETERS OF 30cm OR MORE, SITUATED ON PRIVATE PROPERTY, WITHIN 6m OF THE SUBJECT SITE
3. TREES OF ALL DIAMETERS SITUATED ON CITY OWNED PARKLAND WITHIN 6m OF THE SUBJECT SITE
4. TREES OF ALL DIAMETERS SITUATED WITHIN LANDS DESIGNATED UNDER CITY OF TORONTO MUNICIPAL CODE, CHAPTER 658, RAVINE PROTECTION
5. TREES OF ALL DIAMETERS SITUATED WITHIN THE CITY ROAD ALLOWANCE ADJACENT TO THE SUBJECT SITE

Recommendation:

Retain: tree is in good condition and will not be impacted by construction / grading as the tree is more than 6m the limits of work.
Preserve: tree is in good condition and will not be impacted by construction / grading, although is within proximity to the limits of work and will be protected with tree hoarding
Remove: tree is either in poor condition or dead or will be significantly impacted by grading and construction limits and will not survive.

MINIMUM TREE PROTECTION HOARDING DISTANCES

TREE PRESERVATION IS LIMITED TO TREES ON CITY PROPERTY, TREES WITHIN 6m OF THE LIMIT OF WORK AND TREES 12m OF TRCA REGULATION / RAVINE AND NATURAL FEATURE PROTECTION LIMITS (RNFP). TREE PROTECTION HOARDING IS TO CONSIST OF THREE TYPES DEPENDING ON THE APPLICABLE CITY BY-LAW:

- 1.8m HIGH CHAIN LINK FENCE, BY FENCE FENCE INC. OR APPROVED EQUAL. INSTALLED OFFSET FROM LIMIT OF WORK. INSTALL AS SHOWN ON PLAN AND PER MANUFACTURERS RECOMMENDATIONS AND OFFSET FROM SILT FENCE. www.fastfence.ca 416-751-7877

TREE REMOVALS / INJURY

- REFER TO DRAWINGS AND LEGEND FOR TREES IDENTIFIED TO BE INJURED OR REMOVED;
- REFER TO APPENDIX A: TREE PRESERVATION TABLES INCLUDED IN ARBORIST REPORT FOR DETAILS ON INJURY AND REMOVALS;
- APPROVAL FROM THE CITY AND TRCA IS REQUIRED PRIOR TO ANY TREE REMOVALS / INJURY

TPZ REDUCTIONS (NO INJURY)

WHERE TREE PROTECTION ZONES WILL REQUIRE A REDUCTION DUE TO PROXIMITY TO AN EXISTING HARD SURFACE SUCH AS DRIVEWAYS, EDGE OF PAVEMENT AND SIDEWALKS, THERE WILL BE NO 'INJURY' AS IT IS ASSUMED THAT NO TREE ROOTS HAVE ESTABLISHED UNDER CURBS, ROADS, DRIVEWAYS AND SIDEWALKS AND THAT THERE WILL BE NO CONSTRUCTION IN THESE AREAS.

- THIS MEASURE APPLIES TO TREES ON THE EAST SIDE OF THE EXISTING PATHWAY

TREE INJURY / REMOVAL POLICIES

TREE INJURY:
AS PER THE CITY OF TORONTO'S URBAN FORESTRY POLICY A TREE IS CONSIDERED INJURED IF THE MINIMUM TREE PROTECTION ZONE IS NOT PROTECTED. THUS IF THE MINIMUM TREE PROTECTION ZONE CANNOT BE ESTABLISHED THE POTENTIAL EXISTS FOR INJURY TO TREE ROOTS AND BRANCHES. A 1:1 (FOR EVERY ONE TREE CONSIDERED INJURED ONE TREE SHALL BE PLANTED - RNFP AND PARK BY-LAWS ONLY. NO COMPENSATION FOR INJURY FOR CITY OWNED OR PRIVATE TREES).

TREE REMOVALS / MBCA COMPLIANCE
TO REDUCE THE POSSIBILITY OF CONTRAVENTION OF THE MBCA, VEGETATION REMOVAL SHOULD BE SCHEDULED TO OCCUR OUTSIDE OF THE OVERALL BIRD NESTING SEASON OF **APRIL 1 TO AUGUST 31**. SOME BIRDS MAY NEST BEFORE AND AFTER THIS PEAK BIRD NESTING SEASON DUE TO ANNUAL SEASONAL FLUCTUATIONS.

ARBORIST REPORT NOTES

- FOR A DETAILED DESCRIPTION OF TREE SPECIES, SIZE, CONDITION AND RECOMMENDATIONS REFER TO THE TREE PRESERVATION TABLES IN THE ARBORIST REPORT PREPARED BY WSP CANADA INC., DATED: JULY 12, 2022 AND SEPTEMBER 21, 2022.
- REFER TO THE ARBORIST REPORT FOR SPECIFIC RECOMMENDATIONS, PROTECTIVE AND MITIGATION MEASURES.

TREE INJURY CRITERIA

- ENCROACHMENTS INTO THE TPZ AS A RESULT OF THE BERM CONSTRUCTION AND EXCAVATION
- ENCROACHMENTS INTO THE TPZ THAT ARE WITHIN THE PAVED PORTION OF A PATHWAY OR ROAD (WHERE THERE IS A CURB AND OR SIDEWALK), 'NO INJURY' WILL BE ASSUMED DUE TO THE ASSUMPTION THERE ARE NO ROOTS UNDER THE CURB AND ROAD;
- ON PATHWAYS THAT DO NOT HAVE A CURB, GUTTER OR SIDEWALK SEPARATING THE PAVEMENT FROM THE SOFTSCAPE BOULEVARD, IT WILL BE ASSUMED THAT THERE ARE ROOTS UNDER THE ROAD AND THAT ENCROACHMENTS INTO THE TPZ WITHIN THE ROAD OR BOULEVARD WILL RESULT IN 'INJURY'.

TREE REMOVAL CRITERIA

- WHERE AN ENCROACHMENT INTO THE ROOT ZONE IS EQUAL TO OR GREATER THAN 3 TIMES THE DBH, TREES WILL BE REMOVED (E.G. 30CM DBH TREE X 3 = 90CM). ANY ENCROACHMENT THAT EXCEEDS THIS LIMIT IS CONSIDERED TOO SEVERE AN IMPACT TO THE ROOT ZONE;

TREE PRUNING CRITERIA

- BRANCHES THAT OVERHANG THE WORK AREA FOR THE INSTALLATION OF THE BERM CAN BE PRUNED;
- PRUNING TO BE UNDERTAKEN BY A CERTIFIED ARBORIST;
- CANOPY PRUNING THAT EXCEEDS 25% WILL BE CONSIDERED AN 'INJURY'.

ROOT AND BRANCH PRUNING

- IT IS LIKELY THAT SOME BRANCH PRUNING WILL BE NECESSARY WHERE EXISTING PRESERVED TREES ARE CLOSE TO SERVICE CONNECTION INSTALLATIONS. BRANCH PRUNING LOCATIONS ARE TO BE REVIEWED IN THE FIELD BY THE CONTRACT ADMINISTRATOR. THIS WORK IS TO BE CONDUCTED BY AN ISA CERTIFIED ARBORIST OR UNDER THE SUPERVISION OF ONE AND IN ACCORDANCE WITH THE GUIDELINES ON SHEET TP-7.
- TREE ROOTS ARE LIKELY TO BE IMPACTED WHERE THERE WILL BE ENCROACHMENT INTO THE MINIMUM TREE PROTECTION ZONE. ROOTS ARE TO BE PRUNED BY A CERTIFIED ARBORIST OR UNDER THE SUPERVISION OF ONE AND IN ACCORDANCE WITH THE 'ROOT PRUNING' GUIDELINES ON SHEET TP-7.

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION TABLES
AREA 2

STAMP

DESIGNED | DRAWN | CHECKED

SCALE | DATE SEPTEMBER 2022

PROJECT NUMBER 20M-00631-00

DWG. NUMBER TP-6

Y:\MM\09\20\20\22 11:02 AM
C:\Users\cats06\6539\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\3D_Drawings\Area 2\TP1 to TP6_Tree Preservation Plans.dwg

2. Protecting Trees

There are a number of steps that can be taken to protect trees prior to, during and after any construction project. Hiring an arborist should be the first step. An arborist can advise on current tree maintenance requirements and determine the impact the proposal will have on trees and the surrounding natural environment.

An inventory of trees on subject and adjacent properties that may be impacted by the proposed work should be prepared in accordance with the City tree by-laws so that the project can be designed with tree protection in mind. A tree protection plan prepared by an arborist will identify the location, species, size and condition of all trees within the area of consideration, identify the extent of injury where applicable and outline proposed tree protection measures for the trees identified for protection.

The **area of consideration** for trees protected under the Private Tree By-law (Municipal Code, Chapter 813, Article III) includes the entire area of site disturbance, including construction related traffic and material storage, and extends 6m beyond the limit of site disturbance. For trees protected under Ravine and Natural Feature Protection By-law (Municipal Code, Chapter 658), the area of consideration includes the area of site disturbance and 12m area beyond.

The following chart provides the required distances for determining a **minimum tree protection zone** (TPZ) for trees located on a City street, in parks and on private property subject to Private Tree By-law and for trees located in areas regulated under the Ravine and Natural Feature Protection By-law. The minimum tree protection zones are based on the diameter of the tree. While these guidelines provide minimum protection distances for the anchor and transport roots of a tree, there can still be significant loss of the feeder roots beyond the established tree protection zone. Feeder roots are responsible for water and nutrient absorption and gas exchange. **For this reason, Urban Forestry may require a TPZ larger than the minimum, depending on the tree and the surrounding environment.**

Trunk Diameter (DBH)[1]	Minimum Protection Distances Required[2] City-owned and Private Trees	Minimum Protection Distances Required Trees in Areas Protected by the Ravine and Natural Feature Protection By-law
		Whichever of the two is greater:
<10cm	1.2 m	The drip line[4] or 1.2 m
10- 29 cm	1.8 m	The drip line or 3.6 m
30" – 40 cm	2.4 m	The drip line or 4.8 m
41 – 50 cm	3.0 m	The drip line or 6.0 m
51 – 60 cm	3.6 m	The drip line or 7.2 m
61 – 70cm	4.2 m	The drip line or 8.4 m
71 – 80cm	4.8 m	The drip line or 9.6 m
81 – 90 cm	5.4 m	The drip line or 10.8 m
91 – 100 cm	6.0 m	The drip line or 12.0 m
>100 cm	6 cm protection for each 1 cm diameter	12cm protection for each 1 cm diameter or the drip line[5]

Table 1: Minimum Tree Protection Zone (TPZ) Determination

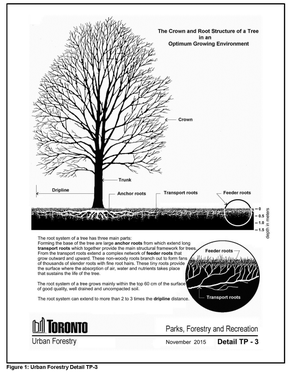


Figure 1: Urban Forestry Detail TP-3

[1]Diameter at breast height (DBH) measurement of tree stem taken at 1.4 metres (m) above the ground.
[2]MinimumTree Protection Zone distances are to be measured from the outside edge of the tree base.
[3]Diameter (30 cm) at which trees qualify for protection under the Private Tree By-law.
[4]The drip line is defined as the area beneath the outer most branch tips of a tree.
[5]Converted from ISA Arborists' Certification Study Guide, general guideline for tree protection barriers of 1 foot of diameter from the stem for each inch of stem diameter.

The diagram below shows how the TPZ is determined:

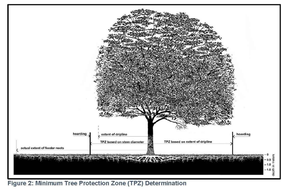


Figure 2: Minimum Tree Protection Zone (TPZ) Determination

In some cases, disturbances in the TPZ may be unavoidable, in which case, the TPZ must be adjusted in consultation with the arborist and Urban Forestry. In these situations, it may be necessary to implement other tree protection measures such as horizontal root protection as noted in section 3 of this document.

In addition to establishing and creating tree protection zones, it may be necessary to implement other protective measures, such as adding mulch to the root zone, aeration of the soil, pruning for deadwood or removing limbs that may be impacted by construction activity. This is also the time to determine the location where new trees can be planted to compliment the construction project and help with the renewal and growth of the urban forest.

Prior to commencing with any excavation, roots approved for pruning by Urban Forestry must first be exposed using pneumatic (air) excavation, by hand digging or by using a low pressure hydraulic (water) excavation. This **exploratory excavation** must be undertaken by an experienced operator under the supervision of a qualified and experienced arborist. The water pressure for hydraulic excavation must be low enough that root bark is not damaged or

Prohibited Activities Within a TPZ

Except where authorized by Urban Forestry, any activity which could result in injury or destruction of a protected tree or natural feature, or alteration of grade within a Ravine and Natural Feature Protection (RNFP) area, is prohibited within a TPZ, including, but not limited to, any of the following examples:

- demolition, construction, replacement or alteration of permanent or temporary buildings or structures, parking pads, driveways, sidewalks, walkways, paths, trails, dog runs, pools, retaining walls, patios, decks, terraces, sheds or raised gardens
- installation of large stones or boulders
- altering grade by adding or removing soil or fill, excavating, trenching, topsoil or fill scraping, compacting soil or fill, dumping or disturbance of any kind
- storage of construction materials, equipment, wood, branches, leaves, soil or fill, construction waste or debris of any sort
- application, discharge or disposal of any substance or chemical that may adversely affect the health of a tree e.g. concrete sluice, gas, oil, paint, pool water or backwash water from a swimming pool
- causing or allowing water or discharge, to flow over slopes or through natural areas
- access, parking or movement of vehicles, equipment or pedestrians
- cutting, breaking, tearing, crushing, exposing or stripping tree's roots, trunk and branches.
- nailing or stapling into a tree, including attachment of fences, electrical wires or signs
- stringing of cables or installing lights on trees
- soil remediation, removal of contaminated fill
- excavating for directional or micro-tunnelling and boring entering shafts

The above mentioned prohibitions are for area(s) designated as a TPZ. If possible, these prohibitions should also be implemented outside the TPZ in areas where tree roots are located. The roots of a tree can extend from the trunk to approximately 2-3 times the distance of the dripline.

3. Tree and Site Protection Measures

The following are examples of specific tree and site protection measures that may be required by Urban Forestry:

- Plywood tree protection hoarding (minimum 19mm or ¾"), or equivalent barriers, as approved by Urban Forestry, shall be installed in locations as detailed in an Urban Forestry approved Tree Protection Plan. Tree protection barriers must be made of 2.4m (8ft) high plywood hoarding or equivalent as approved by Urban Forestry. Height of hoarding may be less than 2.4m (8ft), to accommodate tree branches that may be lower, or as approved by Urban Forestry. Within a City road allowance where visibility is a consideration, 1.2m (4ft) high orange plastic web snow fencing on a 38 x 89mm (2"x 4") frame should be used. The detail on tree protection barrier construction is shown on Figure 4 in section 7 of this document
- In specific situations where the required full minimum tree protection zone (TPZ) cannot be provided, a **horizontal** (on grade) **root protection**, designed by a qualified professional such as arborist or landscape architect, may be considered, subject to approval by Urban Forestry. Urban Foresty's objective is zero soil compaction within the tree protection zone, therefore best efforts must be made to achieve this objective using materials and best practices available that minimize the vertical loading and spread the loading horizontally.
- Any area designated for stockpiling of excavated soil must be outside of TPZs and be enclosed with sediment control fencing. Sediment control fencing shall be installed in the locations as indicated in an Urban Forestry approved Tree Protection Plan. The sediment control fencing must be installed to Ontario Provincial Standards (OPSD-219.130 – see Section 7, Figure 5) and to the satisfaction of Urban Forestry. When feasible, the sediment control fencing can be attached to the tree protection barrier as shown in Figure 6. Sediment control fencing near trees shall be constructed as per detail shown on Figure 6 of this document

4. Tree Protection Signage

TORONTO
Parks, Forestry & Recreation

Tree Protection Zone (TPZ)

All construction related activities, including grade alteration, excavation, soil compaction, any materials or equipment storage, disposal of liquid and vehicular traffic are NOT permitted within this TPZ.

This tree protection barrier must remain in good condition and must not be removed or altered without authorization of City of Toronto, Urban Forestry.

Concerns or inquiries regarding this TPZ can be directed to:
311 or 311@toronto.ca

Figure 3: Tree Protection Sign

Any person who contravenes any provision of the City's tree protection by-law is guilty of an offence.

More information on tree protection and permit application forms for tree removal and injury are available on Urban Forestry web page at www.toronto.ca/trees.

For additional information regarding the removal or injury of trees protected under City by-laws, please call 311.

9. Tree Guarantee Deposits

Tree Protection Guarantee

Urban Forestry may request a **tree protection guarantee** to secure the protection of trees that may be impacted by work on city streets, or to secure the satisfaction of all conditions of permit issuance. Tree protection guarantees held by the City shall only be released by the City provided that all construction activities are complete, compliance with all permit terms and conditions has been verified, there has been no encroachment into the minimum tree protection zone (TPZ) and the trees are healthy and in a state of vigorous growth.

Where Urban Foresty has confirmed an unauthorized encroachment into the TPZ or the terms and conditions of a permit have not been complied with, Urban Forestry will retain the guarantee until satisfactory compliance.

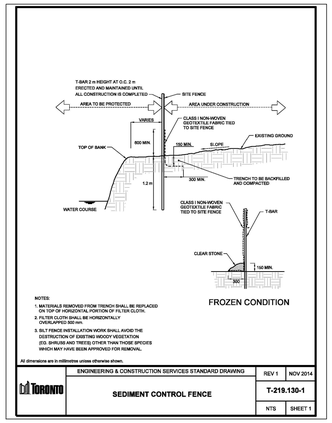
It is the applicant's responsibility to submit a written request to Urban Forestry for the refund of the tree protection guarantee deposit as soon as construction and landscaping is completed.

Tree Planting Security

Urban Forestry may request a **tree planting security deposit** in an amount equal to the cost of planting and maintenance for two (2) years in order to ensure compliance with approved landscape or replanting plans. The security deposit may be held by the City after the planting of the trees for a period of two (2) years and shall be released by the City provided that the trees have been maintained, are healthy and in a state of vigorous growth upon inspection, two (2) years after planting. It is the applicant's responsibility to advise Urban Forestry that trees have been planted in accordance with approved plans, in order that the two (2) year maintenance period begin.

Prior to release by the City, any dead/dying trees must be replaced, deadwood and sucker growth should be pruned, and mulch should be topped up where necessary. If stakes and ties were used, they must be removed within one (1) year. Any encroachments are to be removed prior to assumption, including walkways, timbers or bricks that result in increased height of soil or mulch around the trees, and lights in trees.

It is the applicant's responsibility to submit a written request to Urban Forestry for the refund of a Tree Guarantee Deposit, two (2) years after the completion of all construction activity and/or two (2) years after tree planting. This request should be made during the growing season, not while



TREE PRESERVATION NOTES AND GUIDELINES

GENERAL RECOMMENDATIONS:

- IT IS THE APPLICANTS' RESPONSIBILITY TO DISCUSS POTENTIAL IMPACTS TO TREES LOCATED NEAR OR WHOLLY ON ADJACENT PROPERTIES OR ON SHARED BOUNDARY LINES WITH THEIR NEIGHBOURS. SHOULD SUCH TREES BE INJURED TO THE POINT OF INSTABILITY OR DEATH THE APPLICANT MAY BE HELD RESPONSIBLE THROUGH CIVIL ACTION. THE APPLICANT WOULD ALSO BE REQUIRED TO REPLACE SUCH TREES TO THE SATISFACTION OF URBAN FORESTRY
- TREE PROTECTION BARRIERS SHALL BE INSTALLED TO STANDARDS AS DETAILED IN THIS DOCUMENT AND TO THE SATISFACTION OF URBAN FORESTRY
- TREE PROTECTION BARRIERS MUST BE INSTALLED USING PLYWOOD CLAD HOARDING (MINIMUM 19MM OR ½" THICK) OR AN EQUIVALENT APPROVED BY URBAN FORESTRY
- WHERE REQUIRED, SIGNS AS SPECIFIED IN SECTION 4, TREE PROTECTION SIGNAGE MUST BE ATTACHED TO ALL SIDES OF THE BARRIER
- PRIOR TO THE COMMENCEMENT OF ANY SITE ACTIVITY SUCH AS SITE ALTERATION, DEMOLITION OR
- CONSTRUCTION, THE TREE PROTECTION MEASURES SPECIFIED ON THIS PLAN MUST BE INSTALLED TO THE SATISFACTION OF URBAN FORESTRY
- ONCE ALL TREE/SITE PROTECTION MEASURES HAVE BEEN INSTALLED, URBAN FORESTRY STAFF MUST BE CONTACTED TO ARRANGE FOR AN INSPECTION OF THE SITE AND APPROVAL OF THE TREE/SITE PROTECTION REQUIREMENTS. PHOTOGRAPHS THAT CLEARLY SHOW THE INSTALLED TREE/SITE PROTECTION SHALL BE PROVIDED FOR URBAN FORESTRY REVIEW
- WHERE CHANGES TO THE LOCATION OF THE APPROVED TPZ OR SEDIMENT CONTROL OR WHERE TEMPORARY ACCESS TO THE TPZ IS PROPOSED, URBAN FORESTRY MUST BE CONTACTED TO OBTAIN APPROVAL PRIOR TO ALTERATION
- TREE PROTECTION BARRIERS MUST REMAIN IN PLACE AND IN GOOD CONDITION DURING DEMOLITION, CONSTRUCTION AND/OR SITE DISTURBANCE, INCLUDING LANDSCAPING, AND MUST NOT BE ALTERED, MOVED OR REMOVED UNTIL AUTHORIZED BY URBAN FORESTRY
- NO CONSTRUCTION ACTIVITIES INCLUDING GRADE CHANGES, SURFACE TREATMENTS OR EXCAVATION OF ANY KIND ARE PERMITTED WITHIN THE AREA IDENTIFIED ON THE TREE PROTECTION PLAN OR SITE PLAN AS A MINIMUM TREE PROTECTION ZONE (TPZ). NO ROOT CUTTING IS PERMITTED. NO STORAGE OF MATERIALS OR FILL IS PERMITTED WITHIN THE TPZ. NO MOVEMENT OR STORAGE OF VEHICLES OR EQUIPMENT IS PERMITTED WITHIN THE TPZ. THE AREA(S) IDENTIFIED AS A TPZ MUST BE PROTECTED AND REMAIN UNDISTURBED AT ALL TIMES
- ALL ADDITIONAL TREE PROTECTION OR PRESERVATION REQUIREMENTS, ABOVE AND BEYOND THE INSTALLATION OF TREE PROTECTION BARRIERS, MUST BE UNDERTAKEN OR IMPLEMENTED AS DETAILED IN THE URBAN FORESTRY APPROVED ARBORIST REPORT AND/OR THE APPROVED TREE PROTECTION PLAN AND TO THE SATISFACTION OF URBAN FORESTRY
- IF THE MINIMUM TREE PROTECTION ZONE (TPZ) MUST BE REDUCED TO FACILITATE CONSTRUCTION ACCESS, THE TREE PROTECTION BARRIERS MUST BE MAINTAINED AT A LESSER DISTANCE AND THE EXPOSED PORTION OF TPZ MUST BE PROTECTED USING A HORIZONTAL ROOT PROTECTION METHOD APPROVED BY URBAN FORESTRY
- ANY ROOTS OR BRANCHES INDICATED ON THIS PLAN WHICH REQUIRE PRUNING, AS APPROVED BY URBAN FORESTRY, MUST BE PRUNED BY AN ARBORIST. ALL PRUNING OF TREE ROOTS AND BRANCHES MUST BE IN ACCORDANCE WITH GOOD ARBORICULTURAL PRACTICE. ROOTS THAT HAVE RECEIVED APPROVAL FROM URBAN FORESTRY TO BE PRUNED MUST FIRST BE EXPOSED USING PNEUMATIC (AIR) EXCAVATION, BY HAND DIGGING OR BY A USING LOW PRESSURE HYDRAULIC (WATER) EXCAVATION.
- THE WATER PRESSURE FOR HYDRAULIC EXCAVATION MUST BE LOW ENOUGH THAT ROOT BARK IS NOT DAMAGED OR REMOVED. THIS WILL ALLOW A PROPER PRUNING CUT AND MINIMIZE TEARING OF THE ROOTS. THE ARBORIST RETAINED TO CARRY OUT CROWN OR ROOT PRUNING MUST CONTACT URBAN FORESTRY NO LESS THAN THREE WORKING DAYS PRIOR TO CONDUCTING ANY SPECIFIED WORK
- THE APPLICANT/OWNER SHALL PROTECT ALL BY-LAW REGULATED TREES IN THE AREA OF CONSIDERATION THAT HAVE NOT BEEN APPROVED FOR REMOVAL THROUGHOUT DEVELOPMENT WORKS TO THE SATISFACTION OF URBAN FORESTRY (CONVICTIONS OF OFFENCES RESPECTING THE REGULATIONS IN THE STREET TREE BY-LAW AND PRIVATE
- TREE BY-LAW ARE SUBJECT TO FINES. A PERSON CONVICTED OF AN OFFENCE UNDER THESE BY-LAWS IS LIABLE TO A MINIMUM FINE OF $500 AND A MAXIMUM FINE OF $100,000 PER TREE, AND /OR A SPECIAL FINE OF $100,000. THE LANDOWNER MAY BE ORDERED BY THE CITY TO STOP THE CONTRAVENING ACTIVITY OR ORDERED TO UNDERTAKE WORK TO CORRECT THE CONTRAVENTION
- PRIOR TO SITE DISTURBANCE THE OWNER MUST CONFIRM THAT NO MIGRATORY BIRDS ARE MAKING USE OF THE SITE FOR NESTING. THE OWNER MUST ENSURE THAT THE WORKS ARE IN CONFORMANCE WITH THE *MIGRATORY BIRD CONVENTION ACT* AND THAT NO MIGRATORY BIRD NESTS WILL BE IMPACTED BY THE PROPOSED WORK.
- TO AVOID INTERFERENCE WITH THE EGGS, NESTS OR YOUNG OF BIRDS PROTECTED UNDER THE FEDERAL *MIGRATORY BIRDS CONVENTION ACT*, REMOVALS SHOULD NOT OCCUR FROM MARCH 31 TO AUGUST 31 OF ANY GIVEN YEAR. IDEALLY, REMOVALS SHOULD OCCUR FROM AUGUST THROUGH DECEMBER TO AVOID INTERFERENCE WITH ALL NESTING BIRDS. SHOULD REMOVALS BE REQUIRED WITHIN THE MARCH 31 TO AUGUST 31 BREEDING PERIOD, A QUALIFIED AVIAN BIOLOGIST SHOULD CONDUCT A THOROUGH SURVEY IMMEDIATELY PRIOR TO THE DESIRED TREE REMOVAL DATE TO CONFIRM PRESENCE OR ABSENCE OF PROTECTED SPECIES. IF PROTECTED SPECIES ARE PRESENT, REMOVALS CANNOT OCCUR WITHOUT A PERMIT FROM THE CANADIAN WILDLIFE SERVICE.

ROOT PRUNING PRACTICES:

- DURING EXCAVATION OPERATIONS IN WHICH THE ROOT AREA IS AFFECTED, THE CONTRACTOR IS TO PRUNE ALL EXPOSED ROOTS CLEANLY. PRUNED ROOT ENDS ARE TO BE NEATLY AND SQUARELY TRIMMED AND THE AREA IS TO BE BACKFILLED WITH CLEAN NATIVE FILL AS SOON AS POSSIBLE TO PREVENT DESICCATION AND PROMOTE ROOT GROWTH. THE EXPOSED ROOTS SHOULD NOT BE ALLOWED TO DRY OUT, AND THE CONTRACTOR SHALL DISCUSS WATERING OF THE ROOTS WITH THE CONSULTING ARBORIST SO THAT THE ROOTS SHALL MAINTAIN OPTIMUM SOIL MOISTURE DURING CONSTRUCTION AND BACKFILLING OPERATIONS, YET SO NOT TO INTERFERE WITH CONSTRUCTION OPERATIONS. BACKFILLING MUST BE WITH CLEAN UNCONTAMINATED TOPSOIL FROM AN APPROVED SOURCE. TEXTURE MUST BE COARSER THAN EXISTING SOILS, AND TO COME INTO CLEAN CONTACT WITH EXISTING SOILS (REMOVE AIR POCKETS, SOD, ETC.)
- TREE ROOTS SHOULD NOT BE EXCAVATED WITHIN THE CRITICAL STRUCTURAL ROOTING AREA. THIS IS THE MINIMUM AREA OF THE ROOT SYSTEM NECESSARY TO MAINTAIN VITALITY OR STABILITY OF THE TREE. TYPICALLY THIS AREA EXTENDS TO THE DRIPLINE OF THE TREE. THE SEVERING OF ONE ROOT CAN CAUSE APPROXIMATELY 5-20% LOSS OF THE ROOT SYSTEM. A REDUCTION OF THIS AREA BY GREATER THAN 30% CAN POSE STABILITY CONCERNS FOR THE TREE.
- A SLOW RELEASE FERTILIZER EG- BONE MEAL OR APPROVED EQUAL TO BE APPLIED TO TREES WHERE ROOT PRUNING OR ROOT DAMAGE HAS OCCURRED. APPLY PER MANUFACTURER'S RECOMMENDATIONS
- ROOTS OVER 2.5cm DIAMETER THAT ARE TO BE CUT SHOULD BE PRUNED RATHER THAN LEFT TORN OR CRUSHED
- AT THE COMMENCEMENT OF CONSTRUCTION AND THROUGHOUT THE DURATION OF CONSTRUCTION UP TO THE RESTORATION PHASE, PRUNE ROOTS CLEANLY USING ACCEPTABLE ARBORICULTURAL PRACTICES AND IMMEDIATELY BACKFILL WITH APPROPRIATE MATERIAL. THE FOLLOWING ARE GENERAL METHODS OF ROOT PRUNING TO TO UTILIZED WHEN GRADING / CONSTRUCTION WILL OCCUR WITHIN THE DRIPLINE OF TREES:
  1. SOIL EXCAVATION USING SUPERSONIC AIR TOOLS, PRESSURIZED WATER OR HAND TOOLS, FOLLOWED BY SELECTIVE ROOT CUTTING
  2. CUTTING THROUGH THE SOIL ALONG A PREDETERMINED LINE ON THE SURFACE USING TOOL SPECIFICALLY DESIGNED TO CUT ROOTS
  3. MECHANICALLY EXCAVATING (e.g. BACKHOE) THE SOIL AND PRUNING WHAT IS LEFT OF THE EXPOSED ROOTS.
  4. CUTS TO BE MADE WITH HAND PRUNING SHEARS, BY-PASS BLADE, PRUNING SAW. DO NOT USE ANVIL TYPE PRUNERS.
  5. AREAS WHERE EXCAVATION, GRADING AND CONSTRUCTION HAVE COMPACTED SOIL WITHIN A REDUCED TPZ, AT THE COMPLETION OF CONSTRUCTION, SCARIFY SOIL TO A DEPTH OF 100MM. RESTORE DISTURBED AREAS AS PER LANDSCAPE PLANS AND /OR NOTES ON TREE PRESERVATION PLANS.
  6. WATER TREES PERIODICALLY DURING CONSTRUCTION.
  7. AFTER CONSTRUCTION IT IS RECOMMENDED THAT A 75MM DEPTH LAYER OF MULCH BE PLACED IN A 2M RADIUS AROUND THE TRUNKS OF THESE TREES.

BRANCH PRUNING PRACTICES:

- ALL LIMBS DAMAGED OR BROKEN DURING THE COURSE OF CONSTRUCTION SHOULD BE PRUNED CLEANLY, UTILIZING BY-PASS SECATEURS IN ACCORDANCE WITH APPROVED HORTICULTURAL PRACTICES. SHOULD THERE BE A POTENTIAL RISK OF TRANSFER OF DISEASE FROM INFECTED TO NON-INFECTED TREES; TOOLS MUST BE DISINFECTED AFTER PRUNING EACH TREE BY DIPPING IN METHYL HYDRATE. THIS PRACTICE IS PARTICULARLY IMPORTANT DURING PERIODS OF TREE STRESS AND WHEN PRUNING MANY MEMBERS OF THE SAME GENERA, WITHIN WHICH A DISEASE COULD BE SPREAD QUICKLY (I.E., VERTICILLIUM WILT ON MAPLES OR FIRE BLIGHT ON GENERA OF THE ROSACEA FAMILY).
- ALL PRUNING CUTS SHOULD BE MADE TO A GROWING POINT SUCH AS A BUD, TWIG OR BRANCH. CUT JUST OUTSIDE THE BRANCH COLLAR (THE SWOLLEN AREA AT THE BASE OF THE BRANCH THAT SOMETIMES HAS A BARK RIDGE), AND PERPENDICULAR TO THE BRANCH BEING PRUNED RATHER THAN AS CLOSE TO THE TRUNK AS POSSIBLE. THIS MINIMIZES THE SITE OF THE WOUND. NO STUBS SHOULD BE LEFT. POOR CUT LOCATION, POOR CUT ANGLE AND TORN CUTS ARE NOT ACCEPTABLE.
- EXTENSIVE PRUNING IS BEST COMPLETED BEFORE PLANTS BREAK DORMANCY. PRUNING SHOULD BE LIMITED TO THE REMOVAL OF NO MORE THAN 25% OF THE TOTAL BUD AND LEAF BEARING BRANCHES. PRUNING SHOULD INCLUDE THE CAREFUL REMOVAL OF
  DEADWOOD,
  BRANCHES THAT ARE WEAK, DAMAGED, DISEASED AND THOSE WHICH WILL INTERFERE WITH CONSTRUCTION ACTIVITY,
  SECONDARY LEADERS OF CONIFERS,
  TRUNK AND ROOT SUCKERS,
  TRUNK WATERSPOUTS, AND
  TIGHT V-SHAPED OR WEAK CROTCHES (INCLUDED UNIONS).
- THE CONTRACTOR MUST IMMEDIATELY REPORT ANY DAMAGE TO TREES SUCH AS BROKEN LIMBS, DAMAGE TO ROOTS, OR WOUNDS TO THE MAIN TRUNK OR STEM SYSTEMS SO THAT THE DAMAGE CAN BE ASSESSED IMMEDIATELY.
- THE TREE PROTECTION FENCING WILL BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETED, SOILS ARE STABILIZED AND ALL OF THE EQUIPMENT HAS BEEN REMOVED FROM THE SITE.
- ANY BRANCHES THAT OVERHANG THE WORK AREA AND REQUIRE PRUNING ARE TO BE PRUNED USING GOOD ARBORICULTURAL PRACTICES UTILIZING BY-PASS SECATEURS IN ACCORDANCE WITH APPROVED HORTICULTURAL PRACTICES AND/OR AMERICAN NATIONAL STANDARD (ANSI) A300 (PART 1) - 2008 PRUNING

KEY MAP

NOT FOR CONSTRUCTION
SPA ONLY

NO	DATE	REVISION/ISSUED
1	09/21/2022	ISSUED FOR TENDER

wsp
Landscape Architecture
100 Commerce Valley Drive West
Thornhill, ONT, Canada L3T 0A1
t. 905-885-1100
f. 905-882-0055
www.wsp.com

CLIENT
TORONTO ZOO

PROJECT TITLE
ACCESSIBILITY PATHS IMPROVEMENTS

SITE ADDRESS
361A OLD FINCH AVENUE
TORONTO, ON, L3T 0A1

MUNICIPALITY
TORONTO, ON

DRAWING TITLE
TREE PRESERVATION NOTES AND DETAILS AREA 2

STAMP

DESIGNED | DRAWN | CHECKED
SCALE N.T.S. | DATE SEPTEMBER 2022
PROJECT NUMBER 20M-00631-00 | DWG. NUMBER TP-7

Y:\MMDD\9221\2022.5.02 PM
C:\Users\cacb06953\WSP O365\Thornhill LAUD - Documents\2020\20M-00631-00 - Toronto Zoo Accessible Paths\3D_Drawings\Area 2\TPR_Tree Preservation Notes & Details - Area 2.dwg