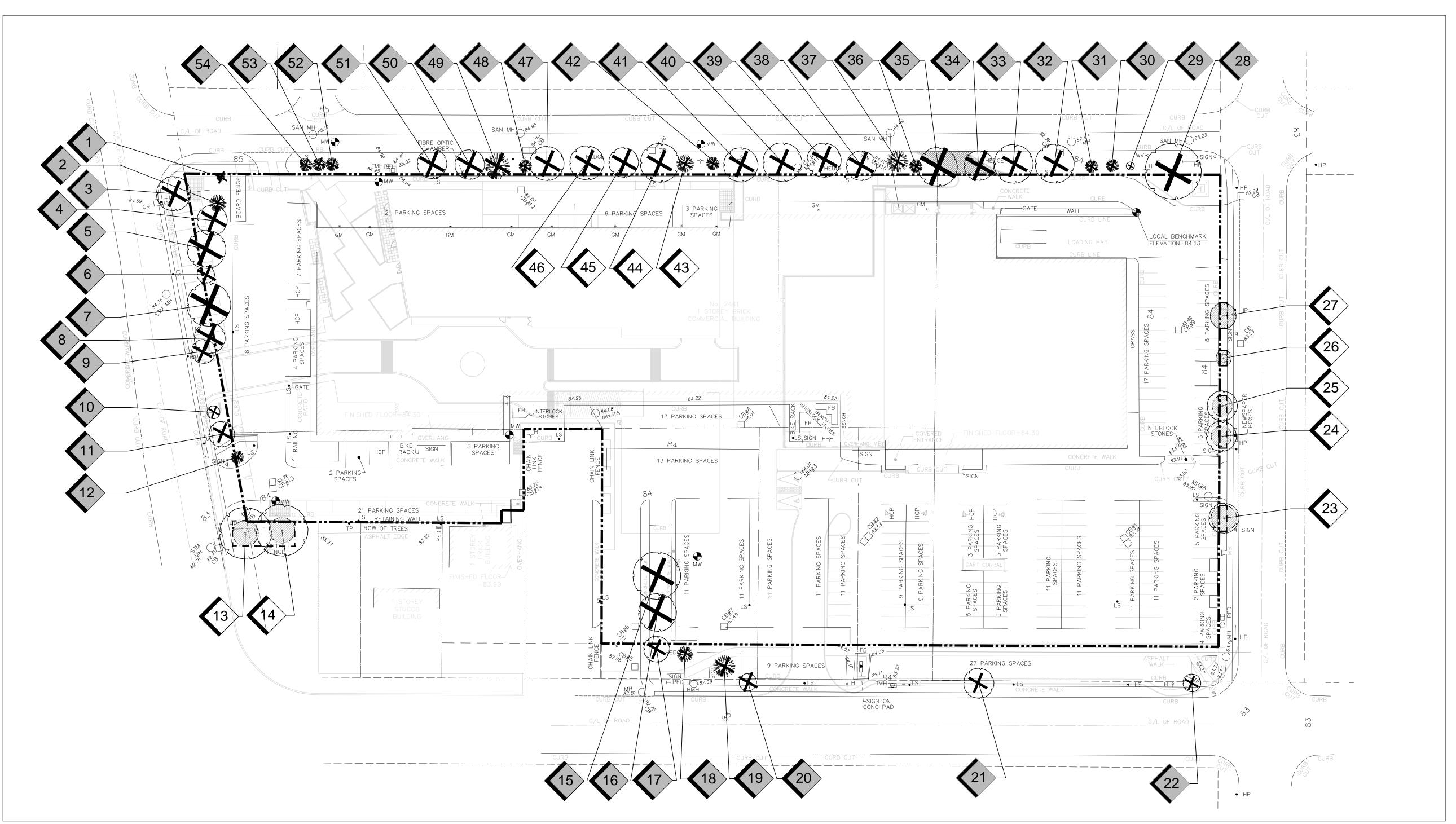


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TREE INVENTORY PRESERVATION AND REMOVAL PLAN

TI-1 Scale 1:500

Prior to the commencement of any site activity the tree protection barriers specified on this plan must be installed and written notice provided to Urban Forestry. The tree protection barriers must remain in effective condition until all site activities including landscaping are complete. Where required, signs as specified in the Arborist Report "Tree Protection Zone" must be attached to all sides of the barrier. Written notice must be provided to Urban Forestry prior to the removal of the tree protection barriers.

Any roots or branches which extend beyond TPZ indicated on this plan which require pruning, must be pruned by a qualified Arborist or other tree professional as approved by Urban Forestry. All pruning of tree roots and branches must be in accordance with good arboricultural standards. Roots located outside the TPZ that have received approval from Urban Forestry to be pruned must first be exposed by hand digging or by using a low pressure hydro vac method. This will allow a proper pruning cut and minimize rearing of the roots. The Arborist/tree professional retained to carry out crown or root pruning must contact Urban Forestry no less than 48 hours prior to conducting any specified work.

The following chart is showing minimum required distances for determining a Tree Protection Zone (TPZ) for Town—owned trees located on a Town Street, in parks and trees on private property subject to either the Ravine and Natural Feature Protection By—law or the Private tree By—law. Some trees and some site conditions may require a larger TPZ.

Table 1 - Tree Protection Zones:

Trunk Diameter	Minimum Protection	Minimum Protection			
DBH*	Distances Required**	Distances Required			
	Town-owned and Private Trees	Trees in Areas Protected by the Ravine			
		and Natural Feature Protection By—law			
		Whichever of the two is greater:			
<10cm	1.8m	The drip line****or 1.2m			
10-30cm	2.4m	The drip line or 3.6m			
31-50cm	3.0m	The drip line or 4.8			
51-60cm	3.6m	The drip line or 6.0m			
61-70cm	4.2m	The drip line or 8.4m			
71-80cm	4.8m	The drip line or 9.6m			
81-90cm	5.4m	The drip line or 10.8m			
91-100cm	6.0m	The drip line or 12.0m			

1. For trees over 100 cm. DBH, add 10cm. to the TPZ for every one centimeter of DBH. 2. Roots can extend from the trunk to 2-3 times the distance of the drip line (See Detail 3, TP-2) 3. Diameter at breast height (DBH) measurement of tree trunk taken at 1.37 metres above ground. 4. Tree Protection Zone distances are to be measured from the outside edge of the tree base towards the drip line and may be limited by an existing paved surface, provided the existing paved surface remains intact throughout the construction work.

*Diameter at breast height (DBH) measurement of tree trunk taken at 1.4 metres above the ground. ** Tree Protection Zone distances are to be measured from the outside edge of the tree base. *** Diameter (30cm) at which the trees qualify for protection under the private tree by—law. **** The drip line is defined as the area beneath the outer most branch tips of the tree. ***** Converted from ISA Arborists' Certification Study Guide, general guideline for tree protection

Within a TPZ there must be:

- no construction;
- no altering of grade by adding fill, excavating, trenching, scraping, dumping or disturbance of any kind.
- no storage of construction materials, equipment, soil, construction waste or debris.

barriers of 1 foot of diameter from the stem for each inch of stem diameter.

- no disposal of any liquids e.g. concrete sleuth, gas, oil, paint. - no movement of vehicles, equipment, or pedestrians.
- no parking of vehicles or machinery.
- directional micro—tunneling and boring may be permitted with the limits of a TPZ subject to approval by Urban Forestry.

— open face cuts outside a TPZ that are consistent with an approved plan and that require root pruning, require the services of a qualified arborist or approved tree professional. An exploratory dig, either by hand or using low water pressure hydro vac method, must be completed prior to commencing with open face cuts outside the TPZ.

The above mentioned requirements are for area(s) designated as a TPZ. These requirements 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.

LEGEND



CONIFEROUS TREE - TO BE RETAINED



DECIDUOUS TREE - TO BE RETAINED



CONIFEROUS TREE - TO BE REMOVED



DECIDUOUS TREE - TO BE REMOVED



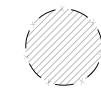
TREE IDENTIFICATION KEY TREE TO BE RETAINED



TREE IDENTIFICATION KEY TREE TO BE REMOVED



TREE PROTECTION FENCING



TREE PROTECTION ZONE PER TOWN OF OAKVILLE STANDARDS. THE FINAL LOCATION OF THE EXTENT OF PROPOSED TREE PROTECTION FENCING WILL BE CO-ORDINATED BETWEEN WITH THE PROJECT ARBORIST AND PROJECT ENGINEER TO ENSURE THAT DAMAGE TO EXISTING TREES IS MINIMIZED DURING

General Notes

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4	OCTOBER 03, 2018	ISSUED FOR SPA	SN
3	APRIL 06, 2018	ISSUED FOR SPA	LK
2	JANUARY 22, 2018	ISSUED FOR SPA	LK
1	AUGUST 03, 2017	ISSUED FOR SPA	DC
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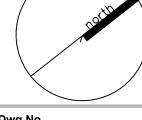
Date June 2017 Drawn By Plan Scale as noted File No.

NOT FOR CONSTRUCTION All drawings and specifications are instruments of service and will remain the property of MHBC Planning and must be returned at the completion of the work. This drawing shall not be used for construction purposes unless

the drawings are marked 'Issued for Construction' and the professional seal is signed and dated by the landscape architect.

Checked By

BRONTE DEVELOPMENT 2441 LAKESHORE ROAD WEST OAKVILLE, ONTARIO



TREE INVENTORY, PRESERVATION AND REMOVAL PLAN

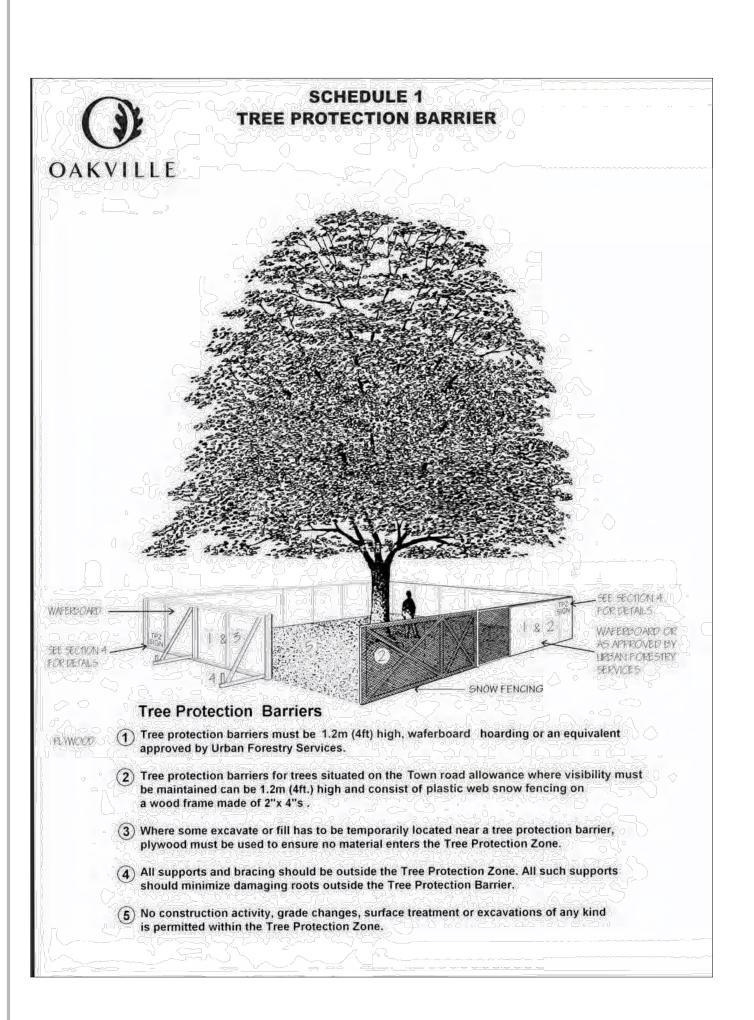
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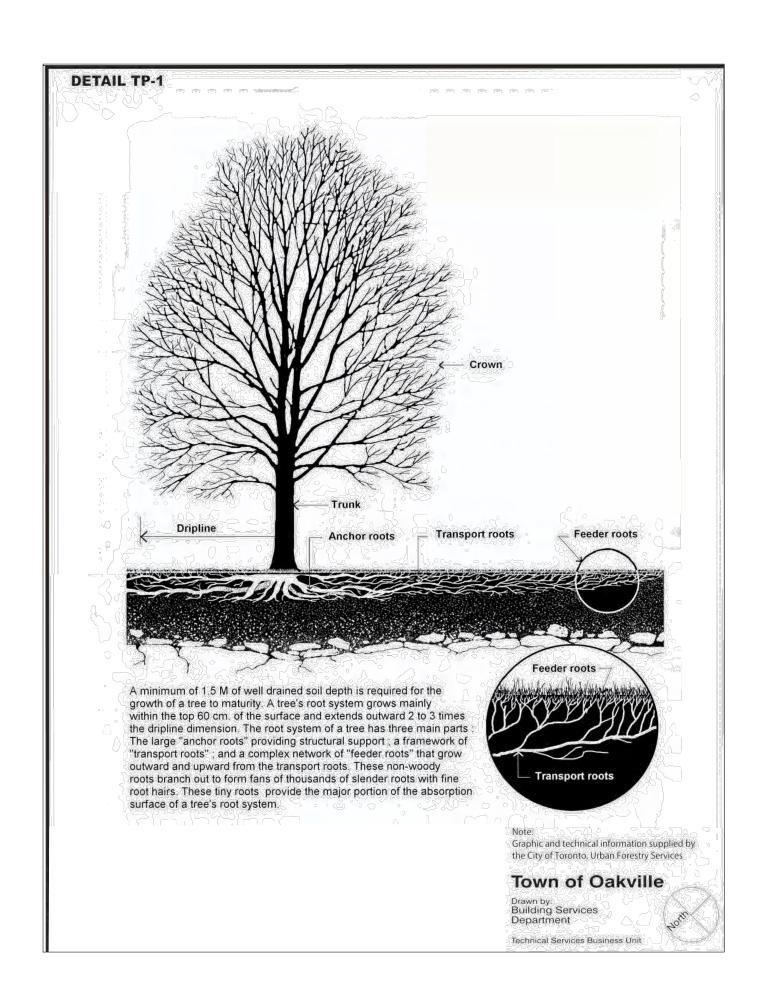


TREE INVENTORY NOTES

Tree No.	Common Name	Botanical Name	Owner	DBH (CM)	Cond.	Structure	Canopy Diameter (m)	Comments	Recommendation
1	Spruce sp.	Picea sp.	Р	27	F	F	2	Some deadwood in canopy	Remove - due to construction
2	Spruce sp.	Picea sp.	Р	24	F	F	4	Some deadwood in canopy	Remove - due to
3	Silver Maple	Acer saccharinum	М	43,36	F	F-P	8	Co- dominant stems, light to moderate deadwood throughout tree	Remove - due to construction
4	Norway Maple	Acer platanoides	Р	29	F	F	7	Light deadwood throughout tree.	Remove - due to construction
5	Norway Maple	Acer platanoides	Р	34	F	F	9	Some dieback at ends.	Remove - due to construction
6	Norway Maple	Acer platanoides	Р	20	F-P	F-P	4	Dieback at crown, calloused wound at base, some evidence of decay.	Remove - due to
7	Norway Maple	Acer platanoides	Р	37	F	F	10	Dieback in crown evident, Tree is beginning to decline.	Remove - due to construction
8	Norway Maple	Acer platanoides	М	31	F-P	F-P	7	Moderate to severe dieback in crown.	Remove - due to construction
9	Ash sp.	Fraxinus sp.	М	37	F-P	F-P	5.5	Tree struggling with EAB, appx 50% folliage dead, calloused wound at base	Remove - due to construction
10	Ash sp.	Fraxinus sp.	М	20,20,11	Р	Р	3	Tree struggling with EAB, Co- dominant stems, City marked tree with 'X'.	Remove - due to construction/health
11	Ash sp.	Fraxinus sp.	М	25	Р	F-P	6	Tree struggling with EAB, City marked tree with 'X'.	Remove - due to construction/health
12	Spruce sp.	Picea sp.	Р	24	F	F	3	Light deadwood throughout tree.	Remove - due to construction
13	Norway Maple	Acer platanoides	М1	38	F	F	12	Light deadwood in canopy.	Retain
14	Norway Maple	Acer platanoides	M1	48	F	F	12	Light deadwood in canopy.	Retain
15	Norway Maple	Acer platanoides	Р	33,32,28,29	F-P	F	11	Co-dominant stems, Moderate to severe deadwood, Canopy dieoff at tips, Tree is in decline.	
16	Norway Maple	Acer platanoides	P	36,35,16	Р	F-P	9	Half of tree is dead, Other half has moderate to severe dieback in crown	Remove - due to construction
17	Norway Maple	Acer platanoides	М	33	F-P	F	6	Moderate dieback at branch ends (approaching severe).	Remove - due to construction
18	Spruce sp.	Picea sp.	М	40	F	F	3.5	Moderate deadwood throughout tree.	Remove - due to construction
19	Spruce sp.	Picea sp.	М	45	F-P	F-P	5	Moderate to severe deadwood throughout tree, Leader broken off.	Remove - due to construction
20	Norway Maple	Acer platanoides	М	23	F-P	F	4	Moderate to severe dieoff.	Remove - due to construction
21	Ash sp.	Fraxinus sp.	м	34	F	F	7	Beginning signs of EAB, Tree has been treated.	
22	Amur Maple	Acer ginnala	м	26	F	F	4	Moderate dieback in crown.	Remove - due to construction
23	Norway Maple	Acer platanoides	М	33	F	F	7	Old trunk split is healing, moderate dieback.	Retain
24	Norway Maple	Acer platanoides	М	30	F-P	F-P	7	Central leader dead, severe dieback in lower crown, fruiting bodies present, mechanical damage at base attempting to heal.	Retain
25	Norway Maple	Acer platanoides	М	26	F	F	7	Some dieback beginning.	Retain
26	Ivory Silk Lilac	Syringa reticulata	М	4	F-P	F	2	Moderate dieback in canopy, signs of urban stress.	Retain
	Norway Maple	Acer platanoides		32	F	F	6	Mild to moderate dieback, tree	

		Gleditsia							Domava dua ta
28	Honey Locust	triacanthos	M	48	F	F	13		Remove - due to construction
29	Honey Locust	Gleditsia triacanthos	М	5	F	F		Some deadwood in canopy	Remove - due to construction
30	Col. Blue Spruce	Picea pungens	М	27	F	F-P	3	Leader dead, remainder retains needles	Remove - due to construction
31	Spruce sp.	Picea sp.	М	23	F-P	F-P	3	Moderate deadwood throughout tree, suspect leader has broken in past and has re-established	Remove - due to construction
32	Honey Locust	Gleditsia triacanthos	М	35	F	F	9	Moderate deadwood in canopy.	Remove - due to construction
33	Honey Locust	Gleditsia triacanthos	М	31	F	F	9	Moderate deadwood, some dieback at tips.	Remove - due to construction
34	Honey Locust	Gleditsia triacanthos	М	35	F-P	F	7	Moderate deadwood, moderat dieback in canopy.	Remove - due to construction
35	Honey Locust	Gleditsia triacanthos	М	32	F	F	9	Moderate deadwood, some dieback at tips.	Remove - due to construction
36	Spruce sp.	Picea sp.	М	23	F-P	F-P	3	Moderate to significant dieback throughout tree.	Remove - due to construction
37	Spruce sp.	Picea sp.	М	28	F-P	F-P	5	Broken leader, moderate to severe deadwood, exposed roots.	Remove - due to construction
38	Honey Locust	Gleditsia triacanthos	М	31	F-P	F	7	Moderate deadwood, dieback at tips.	Remove - due to construction
39	Honey Locust	Gleditsia triacanthos	М	35	F-P	F	8	Moderate deadwood, dieback at tips.	Remove - due to construction
40	Honey Locust	Gleditsia triacanthos	М	28	F	F	9	Moderate deadwood, dieback beginning in twigs.	Remove - due to construction
41	Honey Locust	Gleditsia triacanthos	М	35	F	F	8	Some deadwood, some dieback in twigs.	Remove - due to construction
42	Spruce sp.	Picea sp.	М	18	F	F-P	2.5	Moderate bow in trunk, moderate deadwood.	Remove - due to construction
43	Spruce sp.	Picea sp.	М	24	F	F	4	Moderate to heavy deadwood throughout tree.	Remove - due to construction
44	Honey Locust	Gleditsia triacanthos	М	29	F	F	9	Some dieback at tips.	Remove - due to construction
45	Honey Locust	Gleditsia triacanthos	М	28	F	F	7	Some dieback at tips.	Remove - due to construction
46	Honey Locust	Gleditsia triacanthos	М	27	F	F	8	Some dieback at tips, some deadwood.	Remove - due to construction
47	Honey Locust	Gleditsia triacanthos	М	31	F	F	8	Some dieback at tips.	Remove - due to construction
48	Spruce sp.	Picea sp.	М	29	D	D	2.5		Remove - due to construction
49	Spruce sp.	Picea sp.	М	28	F	F-P	6	Lower 2/3 branches are dead.	Remove - due to construction
50	Honey Locust	Gleditsia triacanthos	М	29	F	F	7	Moderate deadwood, dieback at tips.	construction
51	Honey Locust	Gleditsia triacanthos	М	36	F	F	7	Moderate deadwood, dieback at tips.	construction
52	Spruce sp.	Picea sp.	М	20	F	F	2	Some deadwood throughout tree.	construction
53	Spruce sp.	Picea sp.	М	22	F	F	1.5	Some deadwood throughout tree.	construction
54	Spruce sp.	Picea sp.	М	19	F	F	1.5	Some deadwood throughout tree.	Remove - due to construction





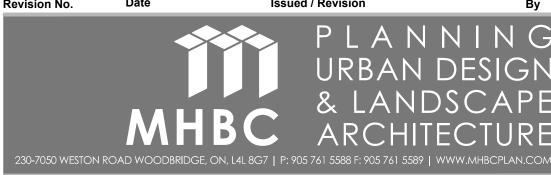




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Project

BRONTE DEVELOPMENT 2441 LAKESHORE ROAD WEST OAKVILLE, ONTARIO

File Name

TREE INVENTORY, PRESERVATION AND REMOVAL PLAN

TI-2

Plan Scale

Checked By

June 2017