

KITCHENER WOODBRIDGE LONDON KINGSTON BARRIE BURLINGTON

November 11, 2020 [Revised, January 20, 2023]

ARBORIST REPORT

3171 Lakeshore Rd West (Cudmore's Nursery Site), Oakville, Ontario

MHBC File: 11161E

BACKGROUND

MHBC was retained to conduct a detailed tree assessment and arborist report for the existing trees within the boundaries of 3171 Lakeshore Rd West, in the Town of Oakville. Original field work was completed on April 20th, 2017 and follow up field reviews were completed in 2019, 2020 and 2022. A Tree Risk Assessment Survey was conducted by GreenPrint Consulting Arborists on April 11-13, 2022 with the final report being dated May 16th, 2022. This report shall be read in conjunction with this Tree Risk Assessment Survey.

PROCEDURE

The on-site inventory of existing trees was carried out using the current survey of the property and relies on the accuracy of this survey. The inventory includes all trees within the site boundary, all trees within 6.0 metres of the site boundary and all Town owned trees along the adjacent boulevards.

This inventory is summarized graphically in the Tree Inventory Plan TI-1, which shall form part of this report and shall always be read in conjunction with this report. For the purposes of this report, trees and groupings of trees are identified by both common and botanical name and are evaluated in terms of size and condition per Town of Oakville standards. Comments and recommendations are provided based on our observations.

The following codes were used in describing the ownership of the trees inventoried:

- P Privately owned tree on subject property
- N Neighbour (privately) owned tree
- SN Shared ownership with neighbour (private)
- M Municipal tree on boulevard
- M1 Municipal / Public tree in park, open space, or naturalized area
- SM Shared ownership with Municipality / Public Agency

The following rating system was used in describing the general condition of the trees inventoried:

Good: Indicates a condition of vigor and no major concerns.

Fair: Indicates an adequate tree, which may have some minor issues.
Poor: Indicates declining health, bad form, or other more serious issues.

Dead: Indicates a dead tree that should be removed.

ASSUMPTIONS AND LIMITING CONDITIONS

- Care has been taken to obtain all information from reliable sources. All data has been verified insofar
 as possible and is assumed to be correct; however MHBC can neither guarantee nor be responsible
 for the accuracy of information provided by others.
- It is assumed that the properties are not in violation of any applicable codes, ordinances, statutes, or other governmental regulations.
- Unless otherwise required by law, possession of this report or a copy thereof does not imply right of
 publication or use for any purpose in whole or in part by any other than the person or company by
 whom it was commissioned.
- The use of excerpts from this report or alterations to this report, without the authorization of MHBC Planning will invalidate the entire report. This report may not be used for any purpose other than its intended purpose as outlined.
- Unless expressed otherwise: 1) information contained in this report covers only those items that were
 examined and reflect the condition of those items at the time of inspection; and 2)the inspection is
 limited to visual examination or accessible items without dissection, excavation, probing, or coring.
 There is no warranty or guarantee, expressed or implied, that problems or deficiencies in the plants
 inventoried may not arise in the future.
- The determination of ownership of any subject tree(s) is the responsibility of the owner and any civil
 or common-law issues, which may exist between property owners with respect to trees, must be
 resolved by the owner. The recommendation to remove or maintain any tree(s) does not grant
 authority to encroach in any manner onto adjacent private properties.

SUMMARY OF TREES INVENTORIED

The following table summarizes our findings and comments. The trees shown with a tone are recommended for removal due to conflicts with the proposed development or due to condition.

Tree No.	Owner	Common Name	Botanical Name	DBH (CM)	Min. TPZ Radius (m)	Cond.	Structure	Canopy Diameter (m)	Comments	Recommendation
658	Р	Austrian Pine	Pinus nigra	39	3	F/G	F	10		Remove
659	Р	Col. Blue Spruce	Picea pungens	17	2.4	F/G	F/G	4	Competing for sunlight has led to crooked form.	Remove
660	Р	Austrian Pine	Pinus nigra	38	3	F	F/G	7	Tree in decline.	Remove
661	Р	Paper Birch	Betula papyrifera	49	3	F	F	14	Light amount of deadwood in canopy.	Remove
662	Р	Black Walnut	Juglans nigra	53	3.6	F	F/G	14	Volunteer tree.	Remove
663	Р	Black Walnut	Juglans nigra	68	4.2	F	F	15	Volunteer tree. Co- dominant stems.	Retain

664	Р	Red oak	Quercus rubra	45	3	D	D	12	Heavy amounts of deadwood in canopy. Tree has been topped and is dead	Remove
665	Р	White Ash	Fraxinus americana	31	3	F/P	F/G	10	Signs of EAB.	Remove
666	Р	Littleleaf Linden	Tilia cordata	26	2.4	F/G	F/G	7		Remove
667	Р	Chanticleer Pear	Pyrus calleryana	25	2.4	F/G	F/G	6		Remove
668	Р	Sugar Maple	Acer saccharum	22	2.4	F/G	F/G	7		Remove
669	Р	Norway Maple	Acer platanoides	57	3.6	F/P	F	15	Volunteer tree. Tree is in decline. Moderate to heavy amounts of deadwood in canopy. Root girdling evident	Remove
670	Р	Norway Maple	Acer platanoides	21	2.4	F/G	F/G	7		Remove
671	Р	Blue Ash	Fraxinus quadrangulat a	42	3	F	F	14	Signs of EAB. Moderate deadwood in canopy.	Remove
672	Р	Austrian Pine	Pinus nigra	42	3	F/G	F	11	Double leader.	Remove
673	Р	Black Walnut	Juglans nigra	39	3	F	F	12	Volunteer tree. Exposed roots.	Remove
674	Р	Red Oak	Quercus rubra	28	2.4	F/G	F/G	11		Remove
675	N	Norway Maple	Acer platanoides	41	3	F	F	14	Moderate to severe crown dieoff. Tree is in decline.	Retain
676	Р	Norway Maple	Acer platanoides	44	3	F	F	16	Beginning signs of decline.	Retain
677	М	Norway Maple	Acer platanoides	75	4.8	F	F/P	18		Retain
678	М	Norway Maple	Acer platanoides	68	4.2	F	F/P	18	Moderate deadwood in canopy. Co-dominant leaders. Signs of internal rot.	Remove
679	М	White Spruce	Picea glauca	22	2.4	F	F/P	6	Tree has been topped in past.	Remove
680	М	White Spruce	Picea glauca	19	2.4	F	F	4		Retain
681	М	White Spruce	Picea glauca	26	2.4	F	F	5		Retain

М	White Spruce	Picea glauca						Past insect damage	
	Willie Spi dec	Picea giauca	18	2.4	F	F	4	evident.	Retain
М	White Cedar	Thuja occidentalis	20	2.4	F	F	3	Trunk split; Healed over.	Retain
М	White Cedar	Thuja occidentalis	16	2.4	F	F	3	Trunk split; Healed over.	Retain
М	White Cedar	Thuja occidentalis	17	2.4	F	F/P	2	Trunk split; Healed over.	Remove
М	Scots Pine	Pinus sylvestris	28	2.4	F	F	6		Retain
М	Scots Pine	Pinus sylvestris	29	2.4	F	F	6		Retain
М	Silver Maple	Acer saccharinum	117	7.2	F	F/P	24	Moderate deadwood in canopy. Older growth tree. Evidence of branch breakage. Beginning stages of decline.	Retain
М	Sugar Maple	Acer saccharum	78	4.8	F	F	19	Shallow, girdled roots. Moderate deadwood in canopy. Water shoots present.	Retain
M	Norway Maple	Acer platanoides	32	3	F	F	14	Shallow exposed, girdled roots. Minor deadwood in canopy.	Remove
М	Norway Maple	Acer platanoides	63	4.2	F	F	18	Shallow exposed roots. Moderate deadwood in canopy. Showing girdling. Signs of crown dieoff. Tree is in decline.	Retain
М	Norway Maple	Acer platanoides	42	3	F	F	12		Retain
M	Norway Maple	Acer platanoides	52	3.6	F	F	18	Slight lean. Interfering with hydro lines. Moderate deadwood in canopy. Signs of crown dieoff. Beginning stages of decline.	Retain
	M M M M M M M	M White Cedar M Scots Pine M Scots Pine M Scots Pine M Silver Maple M Sugar Maple M Norway Maple M Norway Maple M Norway Maple M Norway Maple	M White Cedar occidentalis M White Cedar Thuja occidentalis M Scots Pine Pinus sylvestris M Silver Maple Acer saccharinum M Norway Acer platanoides M Norway Acer platanoides M Norway Acer platanoides M Norway Acer platanoides	M White Cedar occidentalis occidentalis 20 M White Cedar occidentalis 16 M White Cedar occidentalis 17 M Scots Pine Pinus sylvestris 28 M Scots Pine Pinus sylvestris 29 M Silver Maple Acer saccharinum 117 M Sugar Maple Acer saccharum 78 M Norway Maple Acer platanoides 32 M Norway Maple Acer platanoides 63 M Norway Maple Acer platanoides 42 M Norway Maple Acer platanoides 52	MWhite Cedaroccidentalis202.4MWhite CedarThuja occidentalis162.4MWhite CedarThuja occidentalis172.4MScots PinePinus sylvestris282.4MScots PinePinus sylvestris292.4MSilver MapleAcer saccharinum1177.2MSugar MapleAcer saccharum784.8MNorway MapleAcer platanoides323MNorway MapleAcer platanoides634.2MNorway MapleAcer platanoides423MNorway MapleAcer platanoides423	M White Cedar occidentalis 20 2.4 F M White Cedar Thuja occidentalis 16 2.4 F M White Cedar Thuja occidentalis 17 2.4 F M Scots Pine Pinus sylvestris 28 2.4 F M Scots Pine Pinus 29 2.4 F M Silver Maple Acer saccharinum 117 7.2 F M Sugar Maple Acer saccharinum 78 4.8 F M Norway Maple Platanoides 32 3 F M Norway Maple Acer platanoides 63 4.2 F M Norway Acer platanoides 42 3 F	M White Cedar occidentalis 20 2.4 F F M White Cedar Thuja occidentalis 16 2.4 F F M White Cedar Thuja occidentalis 17 2.4 F F/P M Scots Pine Pinus sylvestris 28 2.4 F F M Scots Pine Pinus sylvestris 29 2.4 F F M Silver Maple Acer saccharinum 117 7.2 F F/P M Sugar Maple Acer saccharum 78 4.8 F F M Norway Maple Acer platanoides 32 3 F F M Norway Maple Acer platanoides 63 4.2 F F M Norway Maple Acer platanoides 42 3 F F	M White Cedar occidentalis 20 2.4 F F 3 M White Cedar Thuja occidentalis 16 2.4 F F S M White Cedar Thuja occidentalis 17 2.4 F F/P 2 M Scots Pine Pinus 28 2.4 F F 6 M Scots Pine Pinus 29 2.4 F F 6 M Silver Maple Acer saccharinum 117 7.2 F F/P 24 M Sugar Maple Acer saccharum 78 4.8 F F 19 M Norway Maple Acer platanoides 32 3 F F 18 M Norway Maple Acer platanoides 42 3 F F 12	M White Cedar occidentalis 20 2.4 F F 3 ITURK split; Healed over. M White Cedar Thuja occidentalis 16 2.4 F F 3 Trunk split; Healed over. M White Cedar Thuja occidentalis 17 2.4 F F/P 2 Trunk split; Healed over. M Scots Pine Pinus sylvestris 28 2.4 F F 6 M Scots Pine Pinus sylvestris 28 2.4 F F 6 M Scots Pine Pinus sylvestris 28 2.4 F F 6 M Scots Pine Acer saccharinum 117 7.2 F F/P 24 Moderate deadwood in canopy. Older growth tree. Evidence of branch breakage. Beginning stages of decline. M Sugar Maple Acer saccharum 78 4.8 F F 19 Shallow, girdled roots. Moderate deadwood in canopy. Water shoots present. M Norway Maple Acer platanoides 32 3 F F 14 Shallow exposed, girdled roots. Moderate deadwood in

694	М	White Oak	Quercus alba	16	2.4	F/G	F/G	8	Interfering with hydro lines.	Retain
695	М	Norway Maple	Acer platanoides	75	4.8	F	F	20	Shallow exposed, girdled roots. Minor deadwood in canopy.	Retain
696	М	Black Walnut	Juglans nigra	71	4.8	F	F/G	24		Retain
697	М	White Cedar	Thuja occidentalis	30	2.4	F	F/G	7		Retain
698	М	Black Walnut	Juglans nigra	67	4.2	F	F	20	Minor to moderate deadwood in canopy.	Retain
699	М	Silver Maple	Acer saccharinum	47	3	F/P	F/P	11	Tree is in decline. Evidence of rot in trunk. Moderate to heavy deadwood in canopy. Tree has been heavily pruned in past.	Retain
700	M	Manitoba Maple	Acer negundo	32	3	F/P	Р	6	Moderate lean. Water shoots present.	Retain
906	Р	Manitoba Maple	Acer negundo	23, 27, 62	4.2	р	Р	22	Volunteer tree. 3 stems. 1 stem limb failure. Growing into fence.	Removed previously due to tree failure. Town issued permit
907	SN	Manitoba Maple	Acer negundo	37	3	Р	Р	14	Significant lean; 100% of canopy overhangs subject site.	Retain. Prune to remove lowest 20cm south secondary leader
908	SN	Manitoba Maple	Acer negundo	29	2.4	F	F	14	Slight lean to east; girdling root; included bark; minor deadwood; 95% of canopy overhangs subject site	Retain. Prune to remove lower over- extended limbs
909	Р	Grey Birch	Betula populifolia	38	3	D	Р	12	Tree 100% dead	Remove

910	N	Manitoba Maple	Acer negundo	30	2.4	Р	Р	12	Severe lean to west; poor form; two leaders removed in past	Retain. Prune to remove deadwood
911	SN	Manitoba Maple	Acer negundo	36	3	F	F	10	significant lean over subject site; co-dominant leader previously removed; 100% canopy overhangs subject site	Remove
912	Р	Manitoba Maple	Acer negundo	25	2.4	Р	Р	8	75% of canopy overhangs subject site; decay in upper trunk;	Retain. Prune to remove deadwood
913	Р	Manitoba Maple	Acer negundo	20	2.4	F	F	8	Severe lean over subject site, poor form and structure	Remove
914	Р	Manitoba Maple	Acer negundo	15	2.4	F	Р	5	co-dominant stem previously removed; moderate lean;	Retain
915	SN	Manitoba Maple	Acer negundo	16	2.4	Р	Р	4	decay at base; moderate lean.	Remove
916	SN	Manitoba Maple	Acer negundo	18, 20	2.4	Р	Р	10	included bark; advanced decay in leaders; stormbroken split in union; 2 stems fused at centre point	Remove
917	SN	Manitoba Maple	Acer negundo	26	2.4	F	Р	8	slight lean to west; minor deadwood; 65% of canopy overhangs subject site	Retain. Prune to remove deadwood
918	SN	Manitoba Maple	Acer negundo	24	2.4	F	F/P	8	average vigour	Retain. Prune to elevate lowest 18cm north limb and elevate canopy over subject site

919	SN	Manitoba Maple	Acer negundo	30	2.4	F	F/P	10	girdled root; several significant bark scars in upper crown; 95% canopy overhangs subject site	Retain
920	SN	Manitoba Maple	Acer negundo	31	3	F	F/P	13	girdled root; slight lean to south; 60% canopy overhangs subject site	Retain
921	Р	Manitoba Maple	Acer negundo	20	2.4	Р	Р	7	Poor vigour; large deadwood; moderate lean to south	Retain
922	SN	Manitoba Maple	Acer negundo	50	3	Р	F/P	23	twisted trunk; included bark; stormbroken hangers in canopy; 50% canopy overhangs subject site	Retain. Prune to remove 15cm limb, head back canopy on south leader to reduce weight
923	Р	Manitoba Maple	Acer negundo	35	3	Р	F/P	24	poorly attached stem; decay in trunk; portion of stem 100% dead; 50% of canopy overhangs subject site	Retain. Prune to remove dead stem and lowest stem
924	Р	Manitoba Maple	Acer negundo	28	2.4	F	Р	8	Volunteer tree. Moderate to heavy lean.	Tree has been removed prior to construction
925	SN	Manitoba Maple	Acer negundo	29	2.4	Р	Р	9	poor vigour; significant lean; minor deadwood; 100% of canopy overhangs subject site	Retain. Prune to remove south leader
926	SN	Manitoba Maple	Acer negundo	40	3	F	Р	12	Volunteer tree. minor deadwood; 10% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
927	SN	Manitoba Maple	Acer negundo	30	2.4	Р	Р	12	poor vigour; significant lean; large deadwood; split in secondary union; decay at main union; 100% of canopy overhangs subject site	Remove

928	SN	Manitoba Maple	Acer negundo	39	3	Р	Р	14	poor vigour; storm broken leader; large deadwood; 100% of remaining canopy overhangs neighbors site	Remove
929	SN	Manitoba Maple	Acer negundo	27	2.4	Р	F/P	8	advanced girdled root; decay in trunk; 50% of crown storm broken; 100% of canopy overhangs subject site	Remove
930	Р	Manitoba Maple	Acer negundo	14, 22	2.4	F	F/P	7	minor deadwood; one stem previously removed; 95% of canopy overhangs neighbors site	Retain. Prune to remove deadwood over subject site
931	P	Manitoba Maple	Acer negundo	16	2.4	Р	Р	6	Poor vigour; significant lean; minor deadwood; 100% of canopy overhangs subject site, poor form and structure	Remove
932	P	Manitoba Maple	Acer negundo	27	2.4	Р	Р	9	Significant lean; no upward response growth; poorly attached union; 100% of canopy overhangs subject site	Remove
933	Р	Manitoba Maple	Acer negundo	28	2.4	F	Р	8	minor deadwood; 35% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
934	Р	Manitoba Maple	Acer negundo	36	3	F	F/P	12	minor deadwood	Retain. Prune to remove lowest 15cm limb and deadwood

935	SN	Manitoba Maple	Acer negundo	33	3	F	F/P	14	minor deadwood	Retain. Prune to remove deadwood
936	P	Manitoba Maple	Acer negundo	17	2.4	Р	F/P	6	50% dead; 100% of canopy overhangs subject site	Remove
937	SN	Manitoba Maple	Acer negundo	30	2.4	Р	F/P	12	minor decay at base; minor deadwood; 30% of canopy overhangs subject site	Retain. Prune to remove deadwood
938	Р	Manitoba Maple	Acer negundo	40	3	F	F/P	22	minor included bark at main union; minor deadwood; 80% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site and 20cm south limb
939	Р	Manitoba Maple	Acer negundo	22	2.4	F	Р	9	Moderate lean; 100% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
940	Р	Manitoba Maple	Acer negundo	32	3	F	F/P	18	minor deadwood; 60% of canopy overhangs subject site	Retain. Prune to remove deadwood
941	Р	Manitoba Maple	Acer negundo	17	2.4	Р	F/P	5	Significant lean; basal decay at base; large deadwood; 90% of canopy overhangs subject site	Remove
942	Р	Manitoba Maple	Acer negundo	30	2.4	F	F/P	16	Large deadwood; 10% canopy overhangs subject site	Retain. Prune to remove deadwood over subject site

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943	Р	Manitoba Maple	Acer negundo	15	2.4	F	Р	3	Moderate to heavy deadwood in canopy.	Retain. Prune to remove deadwood over subject site
944	Р	Manitoba Maple	Acer negundo	30	2.4	F	F/P	19	included bark at main union; minor deadwood; 80% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
945	Р	Manitoba Maple	Acer negundo	26	2.4	F	Р	16	limited root flare; 10% of canopy overhangs subject site	Retain
946	Р	Manitoba Maple	Acer negundo	20	2.4	F	Р	14	minor deadwood; slight lean; limited root flare; 20% of canopy overhangs subject site	Retain
947	Р	Manitoba Maple	Acer negundo	20	2.4	F	Р	10	Slight lean; minor deadwood; no portion of canopy overhangs subject site	Retain
948	P	Manitoba Maple	Acer negundo	30	2.4	Р	Р	18	50% missing bark at main union with limited compartmentalization; heavy bark scarring; 90% of canopy overhangs subject site	Remove
949	Р	Manitoba Maple	Acer negundo	37	3	Р	Р	20	large deadwood; 95% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site

950	Р	Manitoba Maple	Acer negundo	35	3	Р	Р	22	Large deadwood, poorly attached union, fungus growing at base; 85% canopy overhangs subject site	Remove
951	Р	Manitoba Maple	Acer negundo	23, 22	2.4	Р	Р	20	Large bark scars at base, in trunk/limbs; included bark; weak attachment; poor vigour	Remove
952	Ф	Manitoba Maple	Acer negundo	24	2.4	D	D	12	100% dead	Remove
953	Р	Manitoba Maple	Acer negundo	30	2.4	Р	Р	22	Decay evident at base, growing on minor lean; 100% canopy overhangs subject site	Remove
954	SN	Manitoba Maple	Acer negundo	27, 38	3	Р	Р	25	Large cavity in SE leader; large sections of deadwood in upper crown; included bark	Remove
955	Р	Austrian Pine	Pinus nigra	25	2.4	F	F/P	10	Moderate lean.	Remove
956	Р	Austrian Pine	Pinus nigra	25	2.4	F	F	8		Remove
957	Р	Colorado Spruce	Picea pungens	19	2.4	F/G	F/G	6		Remove
958	Р	Scots Pine	Pinus sylvestris	21	2.4	F	F	8	Insect infestation.	Remove
959	Р	Colorado Spruce	Picea pungens	17	2.4	F/G	F/G	5		Remove
960	Δ	Black Walnut	Juglans nigra	74	4.8	F	Р	19	Cavity in trunk. Minor to moderate deadwood in canopy. Signs of rot extending through main trunk into upper canopy. Structural limb failure.	Retain

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961	Р	Black Walnut	Juglans nigra	66	4.2	F	F	24	Minor to moderate deadwood in canopy.	Retain
962	Р	Black Walnut	Juglans nigra	69	4.2	F	F	24	Minor to moderate deadwood in canopy.	Retain
963	Μ	Silver Maple	Acer saccharinum	91	6	F/P	F/P	21	Tree is in decline. Moderate deadwood in canopy. Very heavily limbed over time.	Retain
964	М	Black Walnut	Juglans nigra	67	4.2	F	F	25	Minor to moderate deadwood in canopy.	Retain
01	М	Norway Maple	Acer platanoides	60	3.6	F/G	F	12	Off property. Near 659.	Retain
02	Μ	Black Walnut	Juglans nigra	70	4.2	F	F	25	Off property. Near 964. Minor deadwood in canopy.	Retain
О3	N	Paper Birch	Betula papyrifera	20	2.4	F/P	F/P	9	5-stem clump. Tree is in decline. 3/5 stems showing stress.	Retain
04	N	Oak sp.	Quercus sp.	65	4.2	F	F	20	Moderate deadwood in canopy.	Retain
O5	М	Manitoba Maple	Acer negundo	30	2.4	F	F/P	15	Moderate deadwood in canopy.	Retain

TREE APPRAISAL

The following tree appraisal was conducted on all municipally owned trees surrounding the subject property.

Tree #	Botanical Name	DBH (cm)	Condition Rating	Species Rating	Location Rating	Replacement Tree Size (Trunk Area cm2)	Replacement Tree Cost	Installation Cost	Installed Tree Cost	Unit Tree Cost	Appraised Trunk Area (cm²)	Appraised Trunk Area Increase (cm²)	Basic Tree Cost	Appraised Value
664	Quercus Rubra	45	0%	81	75%	78.54	\$325.00	487.5	812.5	6.51	1589.625	1511.085	\$10,649.66	\$0.00
677	Acer platanoides	75	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	4415.625	4337.085	\$29,046.92	\$10,369.75

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678	Acer platanoides	68	60%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	3629.84	3551.3	\$24,442.76	\$7,479.48
679	Picea glauca	22	60%	72%	75%	78.54	\$300.00	450	750	6.51	379.94	301.4	\$3,223.41	\$1,044.38
680	Picea glauca	19	70%	72%	75%	78.54	\$300.00	450	750	6.51	283.385	204.845	\$2,594.84	\$980.85
681	Picea glauca	26	70%	72%	75%	78.54	\$300.00	450	750	6.51	530.66	452.12	\$4,204.60	\$1,589.34
682	Picea glauca	18	70%	72%	75%	78.54	\$300.00	450	750	6.51	254.34	175.8	\$2,405.75	\$909.37
683	Thuja occidentalis	20	70%	70%	75%	78.54	\$300.00	450	750	6.51	314	235.46	\$2,794.14	\$1,026.85
684	Thuja occidentalis	16	70%	70%	75%	78.54	\$300.00	450	750	6.51	200.96	122.42	\$2,058.25	\$756.41
685	Thuja occidentalis	17	60%	70%	75%	78.54	\$300.00	450	750	6.51	226.865	148.325	\$2,226.89	\$701.47
686	Pinus sylvestris	28	70%	53%	75%	78.54	\$300.00	450	750	6.51	615.44	536.9	\$4,756.51	\$1,323.50
687	Pinus sylvestris	29	70%	53%	75%	78.54	\$300.00	450	750	6.51	660.185	581.645	\$5,047.80	\$1,404.55
688	Acer saccharinum	117	70%	60%	75%	78.54	\$325.00	487.5	812.5	6.51	10745.865	10667.325	\$70,768.08	\$22,291.95
689	Acer saccharinum	78	70%	60%	75%	78.54	\$325.00	487.5	812.5	6.51	4775.94	4697.4	\$31,903.87	\$10,049.72
690	Acer platanoides	32	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	803.84	725.3	\$6,045.50	\$2,158.24
691	Acer platanoides	63	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	3115.665	3037.125	\$21,095.48	\$7,531.09
692	Acer platanoides	42	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	1384.74	1306.2	\$9,827.16	\$3,508.30
693	Acer platanoides	52	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	2122.64	2044.1	\$14,630.89	\$5,223.23
694	Quercus alba	16	80%	79%	75%	78.54	\$325.00	487.5	812.5	6.51	200.96	122.42	\$2,120.75	\$1,005.24
695	Acer platanoides	75	70%	68%	75%	78.54	\$325.00	487.5	812.5	6.51	4415.625	4337.085	\$29,558.22	\$10,552.28
696	Juglan nigra	71	70%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	3957.185	3878.645	\$26,573.77	\$9,347.33
697	Thuja occidentalis	30	70%	70%	75%	78.54	\$300.00	450	750	6.51	706.5	627.96	\$5,349.32	\$1,965.87
698	Juglan nigra	67	70%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	3523.865	3445.325	\$23,752.86	\$8,355.07
699	Acer saccharinum	47	50%	60%	75%	78.54	\$325.00	487.5	812.5	6.51	1734.065	1655.525	\$12,101.26	\$2,722.78
700	Acer negundo	32	50%	38%	75%	78.54	\$325.00	487.5	812.5	6.51	803.84	725.3	\$6,045.50	\$861.48
960	Juglan nigra	74	70%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	4298.66	4220.12	\$28,796.78	\$10,129.27
961	Juglan nigra	66	80%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	3419.46	3340.92	\$23,073.18	\$9,275.42
962	Juglan nigra	69	80%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	3737.385	3658.845	\$25,142.88	\$10,107.44
963	Acer saccharinum	91	85%	60%	75%	78.54	\$325.00	487.5	812.5	6.51	6500.585	6422.045	\$43,131.31	\$16,497.73
964	Juglan nigra	67	80%	67%	75%	78.54	\$325.00	487.5	812.5	6.51	3523.865	3445.325	\$23,752.86	\$9,548.65
												Total to		
												be		444 000 -5
												Removed		\$11,383.58

PHOTO RECORD



Trees 658, 659, O1 looking South West.



Trees 907 through 911 looking West.



Trees 911 through 939, 955 through 959 looking North West.



Tree 660 looking North.



Trees 665 through 667 looking South.



Trees 950 through 959, 661 looking South West.



Trees 943 through 947 looking North East.



Trees 668 through 670 looking East.



Trees 960 through 964, 697 through 700, 664 looking East.



Trees 949 through 954 looking South.



Trees 697 through 700, 960 through 964, 664 looking West.



Trees 695 through 690 looking South.

TREE PROTECTION MEASURES

The following tree protection measures shall be undertaken and are shown on the accompanying Tree Protection Plan 2/TI-2. All tree protection measures cited for retained trees must comply with the Town of Oakville EN-TRE-001 Tree Protection Policy and <u>Tree Protection During Construction</u> specifications noted under procedure number EN-TRE-001-001 (as updated from time to time). Any variation from the standard tree protection must be approved by Development Services, Urban Forestry Coordinator.

1.0 ESTABLISH A TREE PROTECTION ZONE

The purpose of the tree protection zone is to prevent root damage, soil compaction and soil contamination during construction activities. Workers and machinery shall not disturb the tree protection zone in any way. In order to prevent access, the following directives are offered.

- Install tree protection hoarding as per Town of Oakville detail 2/TI-2. Trees to be retained shall be protected with a tree protection barrier which shall consist of a 3/8" thick, 8'x4' (1.2m or 4 ft. high) plywood hoarding. Within a Town road allowance or when visibility is a consideration, the barrier shall consist of a 1.2 meter (4 ft.) high orange plastic snow fence on 2" x 4" frame.
- Attach a filter cloth 600mm high to the construction side of the hoarding to act as sediment control. Sediment control fencing per OPSD-219.110, and installed to the satisfaction of Urban Forestry.
- All supports and bracing used to safely secure the barrier should be located outside the Tree Protection Zone (TPZ). All supports and bracing should minimize damage to roots.
- The fence is to be installed along the edge of the tree protection zones. This hoarding is to remain in place and remain in good condition throughout the entire duration of the project. Dismantling the tree protection barrier prior to approval by the Town of Oakville, Urban Forestry staff may constitute a contravention to the Town of Oakville bylaw or permit issue.
- The applicant shall notify the Town of Oakville and the Consulting Arborist to confirm that the tree protection barriers are in place.
- A **TREE PROTECTION ZONE** sign must be mounted on one side of the tree protection barrier for the duration of site construction. The sign should be a minimum of 40cm x 60cm and made of white gator board or equivalent material. The sign must contain the same notes and be similar to the illustration shown below.

TREE PROTECTION ZONE (TPZ)

No grade change, storage of materials or equipment is permitted within this area. Tree protection barrier must not be removed without the written authorization of the Town of Oakville.

Report any contraventions to

Contact Name_____ Tel. No._

Unauthorized removal of the tree protection barrier or other contraventions may result in prosecution.

• Where some fill or excavated material must be temporarily located near a TPZ, a wooden barrier must be used to ensure no material enters the TPZ. Allow no fill, equipment, supplies, or waste within the tree protection zone.

- Remove any garbage and foreign debris from the tree protection zones.
- All contractors shall be informed of the tree preservation and protection measures at a preconstruction meeting.

2.0 ROOT PRUNING

Where possible, and in particular within the Tree Protection Zone for municipally owned trees along Lakeshore Road West, hand dig areas closest to each tree to prevent any unnecessary tearing or pulling of roots. Removal of roots that are greater than 2.5 centimeters in diameter or roots that are injured or diseased should be performed as follows:

- Preserve the root bark ridge (similar in structure to the branch bark ridge). Directional Root Pruning (DRP) is the recommended technique and should be employed during hand excavation around tree roots. Roots are similar to branches in their response to pruning practices. With DRP, objectionable and severely injured roots are properly cut to a lateral root that is growing downward or in a favorable direction.
- All roots needing to be pruned or removed shall be cut cleanly with sharp hand tools, by a Certified Arborist.
- No wound dressings or pruning paint shall be used to cover the ends of each cut.
- All roots requiring pruning shall be cut using any of the following tools: Large or small loppers, Hand pruners, Small hand saws, Wound scribers
- Avoid prolonged exposure of tree roots during construction keep exposed roots moist and dampened with mulching materials, irrigation or wrap in burlap if exposed for longer than 4 hours.

3.0 FERTILIZATION AND IRRIGATION

The following measures are recommended:

- Aeration and deep root fertilize to ensure that all trees receive the appropriate nutrients for healthy growth.
- Fertilizer must be a low nitrogen formula such as 5-30-30 to promote root growth rather than shoot growth.
- If construction occurs during July and / or August, roots must be irrigated during conditions of drought.

4.0 ESTABLISH MAINTENANCE PROGRAM

Pre-Construction:

Prune all trees to remove any deadwood and obstruction prune as required.

During Construction:

- All areas within the protective hoarding shall remain undisturbed for the duration of construction. There will be no grade changes, dumping, and storage of any materials, structures or equipment within these areas. The tree protection barrier must not be removed without written authorization of the Town of Oakville.
- Minor grading works will be permitted at the edge of the preservation zone as required to correct localized depressions adjacent to the new development, and for hand-digging of swales for minor

grading through TPZ's of trees as shown on the approved Tree Protection Plan. This work to be undertaken under the direct supervision of a Certified Arborist.

- All underground services and utilities should be routed around tree protection zones (TPZ's). If this is not possible, they should utilize directional underground boring / tunneling under the root zones of trees (minimum 1.6m depth). All service and utility connections and disconnections / decommissioning must be made outside of the TPZ's of trees to prevent significant root damage from occurring.
- A qualified Arborist will undertake proper root pruning in accordance with acceptable arboriculture practices when and if roots of retained trees are to be exposed, damaged, or severed by construction work. The exposed roots will be backfilled with appropriate material as soon as possible to prevent desiccation. Root pruning prior to excavation will help prevent unnecessary damage to tree roots. The use of low-water pressure Hydrovac technology or careful hand digging to expose roots is recommended.
- The Town of Oakville and the designated on-site Certified Arborist must be notified for all work that impacts the tree preservation zones or for temporary removal of a section of hoarding to gain access for fine grading or other works. All works to be supervised by the Town of Oakville and/or on-site Certified Arborist.
- No cables, wire or ropes of any kind shall be wrapped around or installed in trees to be preserved.
- No contaminants will be dumped or flushed in the TPZ areas or where feeder roots of trees exist (generally beyond the TPZ areas).
- Inspect the site daily to ensure hoarding is in place and in good condition. Inspect trees to monitor condition.

Post Construction:

- Following the completion of all site works, and after review by a Certified Arborist and approval by the Town of Oakville Urban Forestry staff, the protective hoarding may be removed.
- After removal of the protective hoarding, the tree protection areas shall be inspected by a Certified Arborist and Town of Oakville Urban Forestry staff. Any remaining dead, diseased, or hazardous limbs or trees are to be removed by a qualified tree care professional as directed by a Certified Arborist.
- Inspect trees two times per year, May and September to monitor condition for a minimum of two years.

5.0 LANDSCAPING

Any landscaping completed within the tree preservation zones, after construction is completed and tree protection fencing / hoarding has been removed, is to be carried out in such a way that it will not cause damage to any of the trees or their roots. The trees must be protected to the same standards listed earlier in this report, but without the use of tree protection fence or hoarding.

The following guidelines are recommended:

- No grade changes are permitted which include adding and/or removing soil.
- No excavation is permitted that can cause damage to the roots of the tree.
- No heavy equipment can be used to compact the soil within the tree protection zone.

• Where possible, hard surface paving around trees to be protected should be constructed using permeable products such as interlocking stone. Areas to be paved must be hand dug when encroaching within the tree protection zone.

CONCLUSIONS

Based on our detailed review of the existing trees on the subject site and our evaluation of same with respect to the lotting pattern for the proposed development, we offer several observations and conclusions, with notable trees and groupings being referenced.

With respect to this proposal, trees that come into conflict with the proposed development are recommended for removal. This includes tree numbers 658-662, 665-674, 678-679, 685, 690, 911, 913, 929, and 955-959. In addition, there are a number of trees that are recommended for removal due to their current state of health. These are 664, 909, 915-916, 927-928, 931-932, 936, 941, 948, and 950-954. Trees 906 and 924 were previously removed prior to construction and had received permit for their removal. For ease of reference, these are identified with a dark grey tone on the corresponding identification keys and on the Tree Inventory List on drawings TI-1 and TI-2.

All other trees noted are to be retained. In retaining these trees, a number of methods are recommended in order to minimize damage to roots, particularly when working near or within the prescribed Tree Protection Zones. Considerations should include: hand digging or the use of low pressure hydrovac / air spade to minimize root damage; the use of structural soil and granite based HPB type granular to reduce compaction; and the use of alternative materials such as larger permeable pavers which will minimize point loads and disperse weight over a larger area. Per the request of Town staff, Airvac technology should be used to excavate the post holes for the fencing along lots 1-8 under the supervision of a licensed arborist. A design to address each of the trees specifically will need to be developed during the detailed design phase.

It is our opinion that the trees identified for retention can be successfully retained if the recommendations contained herein are followed. The trees along the Lakeshore Road West boulevard will require site specific details and recommendations for their protection. As requested by the Town of Oakville, root exploration will be required (through low pressure hydrovac or air spade method), after which site specific recommendations can be made for these trees.

Kindly direct any questions regarding this report to the undersigned.

Respectfully submitted,

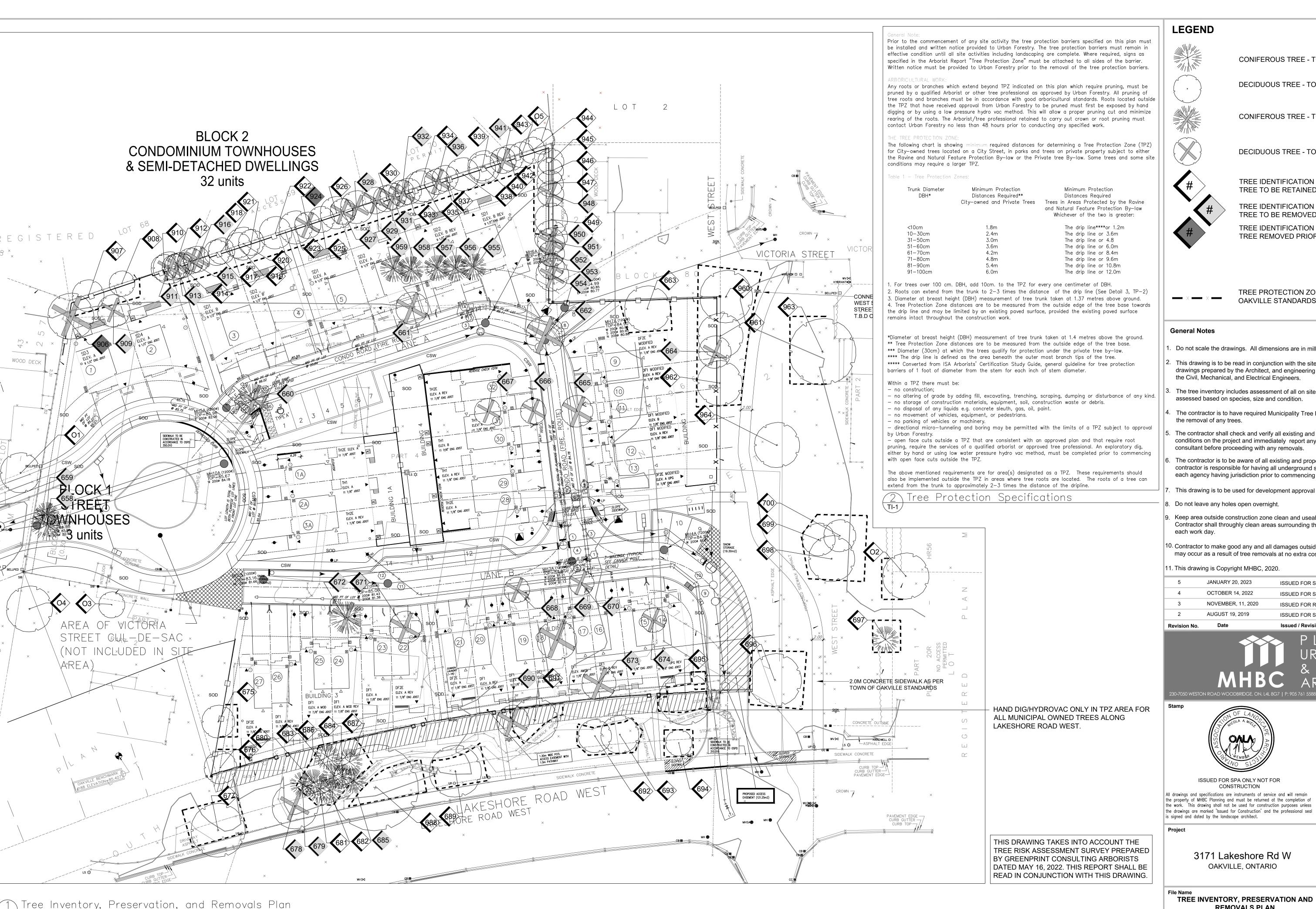
N.W. 5

MHBC Planning, Urban Design & Landscape Architecture

Nick A. Miele BLA, OALA, CSLA, ISA

Partner

ISA Certified Arborist No. ON-1251A



TI-1 | Scale 1:300

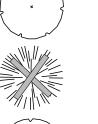
LEGEND



CONIFEROUS TREE - TO BE RETAINED



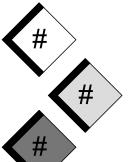
DECIDUOUS TREE - TO BE RETAINED



CONIFEROUS TREE - TO BE REMOVED



DECIDUOUS TREE - TO BE REMOVED



TREE IDENTIFICATION KEY TREE TO BE RETAINED

TREE TO BE REMOVED

TREE IDENTIFICATION KEY

TREE IDENTIFICATION KEY TREE REMOVED PRIOR TO CONSTRUCTION



TREE PROTECTION ZONE PER TOWN OF OAKVILLE STANDARDS.

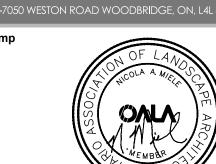
General Notes

- I. Do not scale the drawings. All dimensions are in millimetres unless noted otherwise.
- This drawing is to be read in conjunction with the site plan and architectural drawings prepared by the Architect, and engineering drawings prepared by the Civil, Mechanical, and Electrical Engineers.
- The tree inventory includes assessment of all on site trees. The trees have been assessed based on species, size and condition.
- The contractor is to have required Municipality Tree Removal Permits in hand prior to the removal of any trees.
- The contractor shall check and verify all existing and proposed grading and conditions on the project and immediately report any discrepancies to the consultant before proceeding with any removals.
- 6. The contractor is to be aware of all existing and proposed services and utilities. The contractor is responsible for naving all underground services and utility lines staked by each agency having jurisdiction prior to commencing work.
- This drawing is to be used for development approval only.
- . Do not leave any holes open overnight.
- Keep area outside construction zone clean and useable by others at all times. Contractor shall throughly clean areas surrounding the construction zone at the end of each work day.
- 10. Contractor to make good any and all damages outside of the development area that may occur as a result of tree removals at no extra cost.

11. This drawing is Copyright MHBC, 2020.

Revision No.	Date	Issued / Revision	By
2	AUGUST 19, 2019	ISSUED FOR SPA	СС
3	NOVEMBER, 11, 2020	ISSUED FOR REVIEW	СС
4	OCTOBER 14, 2022	ISSUED FOR SPA	СС
5	JANUARY 20, 2023	ISSUED FOR SPA	CC





JAN 2023

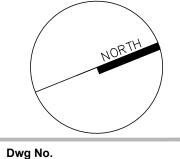
Drawn By

ISSUED FOR SPA ONLY NOT FOR

CONSTRUCTION

Plan Scale File No. 11161E

3171 Lakeshore Rd W OAKVILLE, ONTARIO



TREE INVENTORY, PRESERVATION AND **REMOVALS PLAN**

TI-1

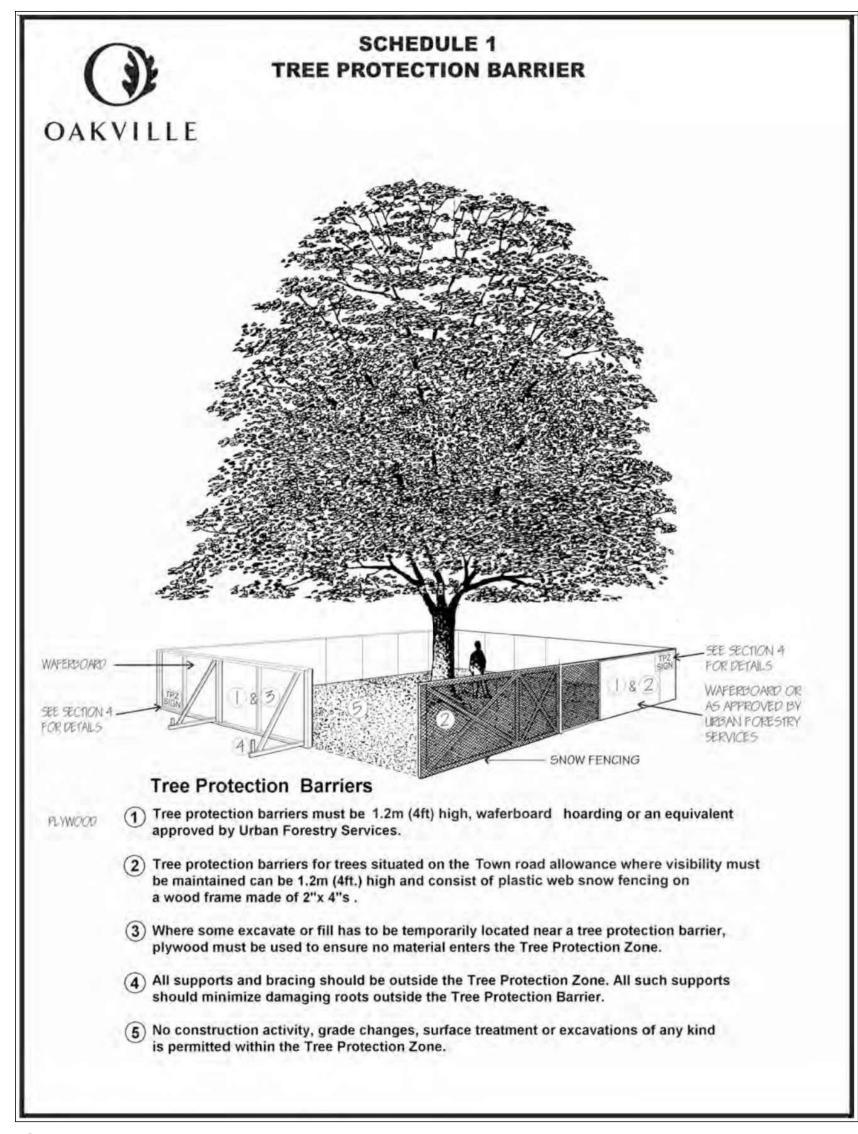
N:\11161\E - Cudmore's Nursery\Arborist Work\3. January 20 2023\11161E - Tree Inventory - 01-20-23.dwg

TREE INVENTORY NOTES

Red oak

Heavy amounts of deadwood in canopy.

									is dead	
665 666	P P	White Ash Littleleaf Linden	Fraxinus americana Tilia cordata	31 26	3 2.4	F/P F/G	F/G F/G	10 7	Signs of EAB.	Remove Remove
667 668	P P	Chanticleer Pear Sugar Maple	Pyrus calleryana Acer saccharum	25 22	2.4 2.4	F/G F/G	F/G F/G	6 7		Remove Remove
									Volunteer tree. Tree is in	
669	Р	Norway Maple	Acer platanoides	57	3.6	F/P	F	15	decline. Moderate to heavy amounts of	Remove
									deadwood in canopy. Root girdling evident	
670	Р	Norway Maple	Acer platanoides	21	2.4	F/G	F/G	7	Signs of EAB. Moderate	Remove
671	P P	Blue Ash Austrian Pine	Fraxinus quadrangulata Pinus nigra	42 42	3	F F/G	F	14	deadwood in canopy. Double leader.	Remove Remove
673	P	Black Walnut	Juglans nigra	39	3	1/0 F	F	12	Volunteer tree. Exposed	Remove
674	Р	Red Oak	Quercus rubra	28	2.4	F/G	F/G	11	roots.	Remove
675	N	Norway Maple	Acer platanoides	41	3	F	F	14	Moderate to severe crown	Retain
					_				dieoff. Tree is in decline. Beginning signs of	
676 677	P M	Norway Maple Norway Maple	Acer platanoides Acer platanoides	44 75	3 4.8	F	F F/P	16 18	decline.	Retain Retain
678	М	Norway Maple	Acer platanoides	68	4.2	F	F/P	18	Moderate deadwood in canopy. Co-dominant leaders. Signs of internal rot.	Remove
679	М	White Spruce	Picea glauca	22	2.4	F	F/P	6	Tree has been topped in	Remove
680	M	White Spruce	Picea glauca	19	2.4	F	F	4	past.	Retain
681	М	White Spruce	Picea glauca	26	2.4	F	F	5	Past insect damage	Retain
682	М	White Spruce	Picea glauca	18	2.4	F	F	4	evident.	Retain
683	М	White Cedar	Thuja occidentalis	20	2.4	F	F	3	Trunk split; Healed over.	Retain
684	М	White Cedar	Thuja occidentalis	16	2.4	F	F	3	Trunk split; Healed over.	Retain
685	М	White Cedar	Thuja occidentalis	17	2.4	F	F/P	2	Trunk split; Healed over.	Remove
686	M	Scots Pine	Pinus sylvestris	28	2.4	F	F	6	. ,	Retain
687	М	Scots Pine	Pinus sylvestris	29	2.4	F	F	6		Retain
688	М	Silver Maple	Acer saccharinum	117	7.2	F	F/P	24	Moderate deadwood in canopy. Older growth tree. Evidence of branch breakage. Beginning stages of decline.	Retain
689	М	Sugar Maple	Acer saccharum	78	4.8	F	F	19	Shallow, girdled roots. Moderate deadwood in canopy. Water shoots present.	Retain
690	М	Norway Maple	Acer platanoides	32	3	F	F	14	Shallow exposed, girdled roots. Minor deadwood in canopy.	Remove
									Shallow exposed roots.	
691	М	Norway Maple	Acer platanoides	63	4.2	F	F	18	Moderate deadwood in canopy. Showing girdling.	Retain
									Signs of crown dieoff. Tree is in decline.	
692	М	Norway Maple	Acer platanoides	42	3	F	F	12		Retain
									Slight lean. Interfering with hydro lines.	
693	М	Norway Maple	Acer platanoides	52	3.6	F	F	18	Moderate deadwood in	Retain
									canopy. Signs of crown dieoff. Beginning stages	
604		William Only	0	4.5	2.4	F /C	E/C		of decline. Interfering with hydro	Datain
694	М	White Oak	Quercus alba	16	2.4	F/G	F/G	8	lines. Shallow exposed, girdled	Retain
695	М	Norway Maple	Acer platanoides	75	4.8	F	F	20	roots. Minor deadwood in canopy.	Retain
696 697	M M	Black Walnut White Cedar	Juglans nigra	71 30	4.8 2.4	F	F/G F/G	24 7	canopy.	Retain Retain
			Thuja occidentalis						Minor to moderate	
698	М	Black Walnut	Juglans nigra	67	4.2	F	F	20	deadwood in canopy.	Retain
699	М	Silver Maple	Acer saccharinum	47	3	F/P	F/P	11	Tree is in decline. Evidence of rot in trunk. Moderate to heavy deadwood in canopy. Tree has been heavily pruned in past.	Retain
700	М	Manitoba Maple	Acer negundo	32	3	F/P	Р	6	Moderate lean. Water shoots present.	Retain
									Volunteer tree. 3 stems. 1	Removed previously due
906	Р	Manitoba Maple	Acer negundo	23,27,62	4.2	р	Р	22	stem limb failure. Growing into fence.	failure. Town issued po
907	SN	Manitoba Maple	Acer negundo	37	3	F	P	14	Significant lean; 100% of canopy overhangs subject	Retain. Prune to remove
									site. Slight lean to east;	20cm south secondary I
908	SN P	Manitoba Maple Grey Birch	Acer negundo Betula populifolia	29	2.4	F	P	14	girdling root; included bark; minor deadwood; 95% of canopy overhangs subject site Tree 100% dead	Retain. Prune to remove over-extended limb Remove
910	N	Manitoba Maple	Acer negundo	30	2.4	р	P	12	Severe lean to west; poor form; two leaders	Retain. Prune to rem
910	IN	маптора марте	Acer negundo	50	2.4	P	ľ	12	removed in past	deadwood
									significant lean over subject site; co-dominant	
911	SN	Manitoba Maple	Acer negundo	36	3	F	Р	10	leader previously removed; 100% canopy	Remove
									overhangs subject site	
912	Р	Manitoba Maple	Acer negundo	25	2.4	Р	F/P	8	75% of canopy overhangs subject site; decay in	Retain. Prune to remo deadwood
									upper trunk; Severe lean over subject	
913	Р	Manitoba Maple	Acer negundo	20	2.4	F	Р	8	site, poor form and structure	Remove
914	Р	Manitoba Maple	Acer negundo	15	2.4	F	P	5	co-dominant stem previously removed;	Retain. Prune
915	SN	Manitoba Maple	Acer negundo	16	2.4	P	P	4	moderate lean; decay at base; moderate	Remove
913	314	імапітова імаріе	Acei negundo	10	2.4	'		-	lean included bark; advanced	Kemove
916	SN	Manitoba Maple	Acer negundo	18,20	2.4	Р	Р	10	decay in leaders; stormbroken split in union; 2 stems fused at centre point	Remove
917	SN	Manitoba Maple	Acer negundo	26	2.4	F	P	8	slight lean to west; minor deadwood; 65% of canopy overhangs subject site	Retain. Prune to remo
918	SN	Manitoba Maple	Acer negundo	24	2.4	F	F/P	8	average vigour	Retain. Prune to elevate 18cm north limb and el canopy over subject s
									girdled root; several significant bark scars in	
919	SN	Manitoba Maple	Acer negundo	30	2.4	F	F/P	10	upper crown; 95% canopy overhangs subject site	Retain
1	_	Manitoba Maple	Acernogue 4-	31	3	F	F/P	13	girdled root; slight lean to south; 60% canopy	Retain
920	ÇNI		Acer negundo	υ1			1/5	13	overhangs subject site	Netdiii
920	SN	Wallicopa Wapie				1	I	7	Poor vigour; large	Retain
920 921	SN P	Manitoba Maple	Acer negundo	20	2.4	Р	P	l ′	deadwood; moderate	
			Acer negundo	20	2.4	P	Р		lean to south twisted trunk; included	
			Acer negundo Acer negundo	20 50	3	P	P F/P	23	lean to south	Retain. Prune to remove limb, head back canopy o



TI-2 N.T.S

TOWN OF OAKVILLE TREE PROTECTION DURING CONSTRUCTION

924	Р	Manitoba Maple	Acer negundo	28	2.4	F	Р	8		Tree has been removed prior to	
									to heavy lean. poor vigour; significant	construction	942
925	SN	Manitoba Maple	Acer negundo	29	2.4	Р	Р	9	lean; minor deadwood; 100% of canopy overhangs subject site	Retain. Prune to remove south leader	943
926	SN	Manitoba Maple	Acer negundo	40	3	F	Р	12	Volunteer tree. minor deadwood; 10% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site	944
927	SN	Manitoba Maple	Acer negundo	30	2.4	P	Р	12	poor vigour; significant lean; large deadwood; split in secondary union; decay at main union; 100%	Remove	945
									of canopy overhangs subject site		946
928	SN	Manitoba Maple	Acer negundo	39	3	Р	Р	14	poor vigour; storm broken leader; large deadwood; 100% of remaining canopy overhangs nieghbours site	Remove	947
929	SN	Manitoba Maple	Acer negundo	27	2.4	Р	F/P	8	advanced girdled root; decay in trunk; 50% of crown storm broken; 100% of canopy overhangs subject site	Remove	948
930	Р	Manitoba Maple	Acer negundo	14,22	2.4	F	F/P	7	minor deadwood; one stem previously removed; 95% of canopy overhangs neighbours site	Retain. Prune to remove deadwood over subject site	949
931	Р	Manitoba Maple	Acer negundo	16	2.4	Р	Р	6	Poor vigour; significant lean; minor deadwood; 100% of canopy overhangs subject site, poor form and structure	Remove	950
932	Р	Manitoba Maple	Acer negundo	27	2.4	Р	Р	9	Significant lean; no upward response growth; poorly attached union; 100% of canopy overhangs subject site	Remove	952 953
933	Р	Manitoba Maple	Acer negundo	28	2.4	F	Р	8	minor deadwood; 35% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site	
934	Р	Manitoba Maple	Acer negundo	36	3	F	F/P	12	minor deadwood	Retain. Prune to remove lowest 15cm limb and deadwood	954
935	SN	Manitoba Maple	Acer negundo	33	3	F	F/P	14	minor deadwood	Retain. Prune to remove deadwood	955 956 957
936	Р	Manitoba Maple	Acer negundo	17	2.4	Р	F/P	6	50% dead; 100% of canopy overhangs subject site	Remove	958 959
937	SN	Manitoba Maple	Acer negundo	30	2.4	Р	F/P	12	minor decay at base; minor deadwood; 30% of canopy overhangs subject site	Retain. Prune to remove deadwood	960
938	Р	Manitoba Maple	Acer negundo	40	3	F	F/P	22	minor included bark at main union; minor deadwood; 80% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site and 20cm south limb	961
939	Р	Manitoba Maple	Acer negundo	22	2.4	F	Р	9	Moderate lean; 100% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site	962
940	Р	Manitoba Maple	Acer negundo	32	3	F	F/P	18	minor deadwood; 60% of canopy overhangs subject site	Retain. Prune to remove deadwood	963
941	Р	Manitoba Maple	Acer negundo	17	2.4	Р	F/P	5	Significant lean; basal decay at base; large deadwood; 90% of canopy overhangs subject site	Remove	964

942	Р	Manitoba Maple	Acer negundo	30	2.4	F	F/P	16	canopy overhangs subject site	deadwood over subject site
943	Р	Manitoba Maple	Acer negundo	15	2.4	F	Р	3	Moderate to heavy deadwood in canopy.	Retain. Prune to remove deadwood over subject site
944	Р	Manitoba Maple	Acer negundo	30	2.4	F	F/P	19	included bark at main union; minor deadwood; 80% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
945	Р	Manitoba Maple	Acer negundo	26	2.4	F	Р	16	limited root flare; 10% of canopy overhangs subject site	Retain
946	Р	Manitoba Maple	Acer negundo	20	2.4	F	Р	14	minor deadwood; slight lean; limited root flare; 20% of canopy overhangs subject site	Retain
947	Р	Manitoba Maple	Acer negundo	20	2.4	F	Р	10	Slight lean; minor deadwood; no portion of canopy overhangs subject site	Retain
948	Р	Manitoba Maple	Acer negundo	30	2.4	Р	Р	18	50% missing bark at main union with limited compartament-alization; heavy bark scarring; 90% of canopy overhangs subject site	Remove
949	Р	Manitoba Maple	Acer negundo	37	3	Р	Р	20	large deadwood; 95% of canopy overhangs subject site	Retain. Prune to remove deadwood over subject site
950	Р	Manitoba Maple	Acer negundo	35	3	Р	Р	22	Large deadwood, poorly attached union, fungus growing at base; 85% canopy overhangs subject site	Remove
951	Р	Manitoba Maple	Acer negundo	23,22	2.4	Р	Р	20	Large bark scars at base, in trunk/limbs; included bark; weak attachment; poor vigour	Remove
952	Р	Manitoba Maple	Acer negundo	24	2.4	D	D	12	100% dead	Remove
953	Р	Manitoba Maple	Acer negundo	30	2.4	Р	Р	22	Decay evident at base, growing on minor lean; 100% canopy overhangs subject site	Remove
954	SN	Manitoba Maple	Acer negundo	27,38	3	Р	Р	25	Large cavity in SE leader; large sections of deadwood in upper crown; included bark	Remove
955	Р	Austrian Pine	Pinus nigra	25	2.4	F	F/P	10	Moderate lean.	Remove
956 957	P P	Austrian Pine Colorado Spruce	Pinus nigra Picea pungens	25 19	2.4	F F/G	F F/G	8 6		Remove Remove
958	P	Scots Pine	Pinus sylvestris	21	2.4	F	F	8	Insect infestation.	Remove
959	P	Colorado Spruce	Picea pungens	17	2.4	F/G	F/G	5		Remove
960	М	Black Walnut	Jugians nigra	74	4.8	F	Р	19	Cavity in trunk. Minor to moderate deadwood in canopy. Signs of rot extending through main trunk into upper canopy. Structural limb failure.	Retain
961	Р	Black Walnut	Juglans nigra	66	4.2	F	F	24	Minor to moderate deadwood in canopy.	Retain
962	Р	Black Walnut	Juglans nigra	69	4.2	F	F	24	Minor to moderate deadwood in canopy.	Retain
963	М	Silver Maple	Acer saccharinum	91	6	F/P	F/P	21	Tree is in decline. Moderate deadwood in canopy. Very heavily limbed over time.	Retain
964	М	Black Walnut	Juglans nigra	67	4.2	F	F	25	Minor to moderate deadwood in canopy.	Retain

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						Cr	own		
				1					
	1	37/2		— Trunk		4			
	design contra we have been a serior	Oripline		— Anchor	roots	Transpor	t roots	Feeder	roots
	5)	>				F	eeder roots	
	growth of a within the the dripline The large "transport outward arroots brand root hairs."	a tree to mature top 60 cm. of a dimension. "anchor roots roots"; and and upward froch out to form	the surface The root sys " providing some the transport fans of those to provide	I soil depth is reserved and extends of a tree heart suppertural suppertural suppertural roots. The usands of slenthe major por	prows main outward 2 nas three fort; a fraider roots" see non-wider roots	nly to 3 times main parts : mework of that grow oody with fine		ransport roots	
in				cture of a				and technical info of Toronto, Urbar	ormation supplied Forestry Services
	ovember 2	SPER IN				(F)		vn of Oa	kville

DETAIL TP-1

01	М	Norway Maple	Acer platanoides	60	3.6	F/G	F	12	Off property. Near 65	9. Retain
02	М	Black Walnut	Juglans nigra	70	4.2	F	F	25	Off property. Near 96 Minor deadwood ir canopy.	1
03	Z	Paper Birch	Betula papyrifera	20	2.4	F/P	F/P	9	5-stem clump. Tree is decline. 3/5 stems showing stress.	in Retain
04	N	Oak sp.	Quercus sp.	65	4.2	F	F	20	Moderate deadwood canopy.	in Retain
05	М	Manitoba Maple	Acer negundo	30	2.4	F	F/P	15	Moderate deadwood canopy.	in Retain
					Diameter or Trunk (DBH) In Centemetres				D	ee Protection Zone istance from trunk
						111	Jenite	metre	m	easured in metres
					<10					1.8
					10-30					2.4
					31-50					3
					51-60			60		3.6
					61-70					
							61-7	70		4.2

71-80

81-90

91-100

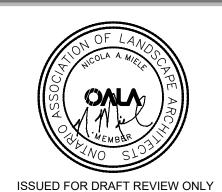
4.8

5.4

THIS DRAWING TAKES INTO ACCOUNT THE TREE RISK ASSESSMENT SURVEY PREPARED BY GREENPRINT CONSULTING ARBORISTS DATED MAY 16, 2022. THIS REPORT SHALL BE READ IN CONJUNCTION WITH THIS DRAWING.

5	JANUARY 20, 2023	ISSUED FOR SPA	СС
4	OCTOBER 14, 2022	ISSUED FOR SPA	СС
3	NOVEMBER, 11, 2020	ISSUED FOR REVIEW	СС
2	AUGUST 19, 2019	ISSUED FOR SPA	СС





Plan Scale as noted File No. 11161 E

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.

3171 Lakeshore Rd W OAKVILLE, ONTARIO

TREE INVENTORY, PRESERVATION AND **REMOVALS PLAN**

Dwg No. **TI-2**

JAN 2023

DC

N:\11161\E - Cudmore's Nursery\Arborist Work\3. January 20 2023\11161E - Tree Inventory - 01-20-23.dwg

Checked By