

Tree Assessment For Seascape Homes At Lot 4, 5202 Forest Ave SE Mercer Island, Washington



Date 2/14/2021

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II.	Tree Assessment Summary Table
III.	Basic Tree Risk Assessment Forms
	IV. Mercer Island Check list
V.	Mercer Island Tree Inventory Form

# 1. Introduction

I was contacted by Jon Tellefson of Seascape Homes to describe and assess the condition, viability and protection of trees on Lot 4, 5250 Forest Avenue, Mercer Island, WA. This report summarizes my observations and conclusions.

# 2. Competence

- Certified Arborist (International Society of Arboriculture, ISA #23136, PN 0426 A)
- Registered Consulting Arborist (American Society of Consulting Arborists #499).
- Tree Risk Assessment Qualified (ISA).
- Certified forester (Society of American Foresters #951)
- Bachelor of Science degree in Forest Management from the University of Washington
- Licensed Washington State Real Estate Managing Broker #11534

# 3. Client

The client to whom this report is addressed is:

Jon Tellefson Seascape Homes PO Box 40568 Bellevue, WA 98105 Jmt1231@gmail.com

### 4. Assignment, Purpose and Use of Report

The assignment is to describe and assess the condition and viability of on-site trees and to provide protection recommendations in conformance with the City of Mercer Island "Tree Submittal Check List", attached.

# 5. Limits of Assignment

The assignment is limited to the information gathered during the site visit May 20, 2020 (date of assessment) and references noted in this report. No excavation or sampling was undertaken to determine unseen defects. No inspection of trees not reported herein was made.

A site plan indicating a proposed development plan was provided and is included in the Addenda with tree locations noted.

# 6. Site Description

Lot 4, 5202 Forest Ave SE, Mercer Island, WA, King County Parcel No. 1410300063. The subject property is undeveloped on 16,396 square feet.

A single-family residence is planned for the site.

# 7. Methodology

Each tree was measured for diameter at 4.5-feet above ground, (or equivalent) total height, percentage of live green crown, and dripline (extent of live limbs).

Each tree was assessed as to its condition, or vigor and viability:

### Vigor or condition:

Health: Biotic

- Good: No evidence of fungal infection or decay; expected to survive without disturbance to its normal life expectancy. (40-100 years in this case)
- Fair: Tree has initial fungal decay or evidence of insect habitat and is less likely to survive to normal life expectancy. Some with minor defects, are rated viable,
- Poor: Tree has significant fungal decay and defects that render it not likely to survive three years.

Structural: Abiotic

- Good: no significant abiotic or mechanical defects
- Fair: less than preferred form, defects such as breaks in the bole, poor limb attachments, included bark, poor root contact, etc.
- Poor: Broken or cracked bole or limbs; root plate compromised

### Viability:

• A measure of whether the tree is likely to live to its "normal" life span or has defects limiting that potential or poses a risk to the residence or proposed development is a simple 'yes/no' rating.

# 8. Tree Description

Refer to the attached Tree Assessment Summary Form. A total of eleven on-site trees as indicated on the Site Plan provided were found. They are classified by the City Municipal Code (MICC) 19.10 – "Trees" as indicated following in Table 1.

Species	Exceptional	Large	Small
W. red cedar	1	1	
Bigleaf maple	2	4	1
W. Hemlock		3	
Douglas-fir		1	
Cascara			1

Three trees, No. 1 and 2, both bigleaf maples and 6, a western hemlock are non-viable. No. 6 is located away from potential targets and can be retained. Trees 1 and 2 will become high risk hazards once the house is constructed and should be removed.

Trees No. 1 and 2 are within the proposed building foot print. No replacement is required per (MCC 19.10.070). Basic Tree Risk Assessment forms are attached for both trees.

### 9. Root Zone Impacts

The limits of disturbance are determined on a case by case basis for each tree in consideration of the tree size, estimate of the extent of the root zone and consideration of the planned root zone disturbance per Matheny and Clark "Trees and Development". Distances from the face of each tree to the excavation limit were provided by the client. There appears to be little or no impact to the retained trees.

Tree No. 3 within the NGPA is measured at 18.3 feet east of the excavation zone. This encroachment into the root zone will affect about 20-percent of the entire zone and less than 5-percent of the critical root zone. Post construction, this over-mature tree will overhang the house.

No.	Species	Facing Dripline	Measured Distance to Excavation Limit	Excavation Type	Root Zone Impact (963/3217)	Critical Root Zone Impact (75/804)
3	Bigleaf	32'	18.3.5'	Site	±20%	Under 5%
	maple			leveling		

In my opinion, Tree No. 3 should be can be retained as the root structure will not be significantly impacted by excavation although it will overhang the house once that is built.

#### **10. Discussion**

The tree removal plan will retain 78-percent (7 of 9 of the total large regulated trees) and 82-percent of the total trees on the site.

#### **11. Replacement Trees**

The trees to be removed are big leaf maple that are very large and over-mature, are susceptible to dead limb drop and scaffold limb and whole tree failure. No trees are required to replace trees No. 1 and 2 as they are non-viable and will constitute high risk hazards, post construction.

#### 12. Summary

Seven of the eleven on-site trees are healthy and structurally sound indicating full-term viability. Two high risk hazard trees and two non-viable trees will be removed. The remaining trees should be protected.

Retained Tree protections should include:

- Certified Arborist on site during excavation activities within the defined root zone of all trees.
- All trees to be retained are to be fenced at the edge of the recommended tree protection zone with 6-foot high cyclone type fencing.
- Utility lines should be bored. Bore access pits to be developed with 18" buckets or hand dug.
- Retaining wall footings to be minimally deep, no more than 12-inches.
- Tree roots over 1-1/2 inches in diameter encountered in all excavations are to be cut cleanly to the trench wall with clean sharp tools. Roots to be covered with soil or wetted burlap if they must remain exposed.
- Supplemental irrigation is to be provided during summer months (generally June-September) for all trees in the construction zones.
- Recommended protected tree root zones are to be covered with 4-inches of hog fuel at all times. Where machinery access is needed, the root zones should be covered with 12-inches of hog fuel, plywood or steel sheets.
- Stumps for trees to be removed are to be ground out (not excavated).

### **13.** Assumptions and Limiting Conditions

1. Any legal description provided to the consultant is assumed to be correct. Ownership of the subject trees as provided by the client is assumed to be correct. No responsibility is assumed for legal matters. No opinion as to the property line location is made.

- 2. Care has been taken to obtain all information from reliable sources. The consultant can neither guarantee nor be responsible for the accuracy of information provided by others.
- 3. The consultant shall not be required to give testimony or attend court by reason of this report unless subsequent contractual arrangements are made, including additional fees.
- 4. This report and any values expressed herein represent the opinion of the consultant, and the consultant's fee is in no way contingent upon the reporting of a specified value, a stipulated result, the occurrence of a subsequent event, nor upon any finding to be reported.
- 5. The exhibits in this report are included to assist the reader and are not necessarily to scale.
- 6. Unless expressed otherwise, information in this report covers only items that were examined, and reflects the condition of those items at the time of inspection. The subject site was cleared of all vegetation at the time of inspection therefore the extent of removals is inferred from adjacent undisturbed areas. The inspection is limited to visual examination of accessible portions of the trees and plants.
- 7. Loss or alteration of any part of the report invalidates the entire report. Ownership of any documents related to this report passes to the client only.
- 8. The liability of ArborInfo LLC its contractors and employees is limited to the client only and only up to the amount of the fee actually received for the assignment.
- 9. There is no warranty suggested for any of the trees subject to this report. Weather, latent tree conditions, and future man-caused activities could cause physiologic changes and deteriorating tree condition. Over time, deteriorating tree conditions may appear and there may be conditions, which are not now visible which, could cause tree failure. This report or the verbal comments made at the site in no way warrant the structural stability or long-term condition of any tree, but represent my opinion based on the observations made.
- 10. Nearly all trees in any condition standing within reach of improvements or human use areas represent hazards that could lead to damage or injury. The assessment is valid for two years from the date of inspection, only.
- 11. Pertinent jurisdiction rules and regulations should be consulted prior to the removal of any tree.

Respectfully Submitted,

For Hanna

Thomas M. Hanson, CF, RCA

- I. Tree Location Map
- II. Tree Assessment Summary Table
- III. Basic Tree Risk Assessment Forms
- IV. Mercer Island Check list
- V. Mercer Island Tree Inventory Form

# **Glossary of Common Terms**

DBH	Diameter at breast height, 4 <sup>1</sup> / <sub>2</sub> ' above ground level											
Basal	In the vicinity of the root/trunk connection at ground level											
Bole	The tree stem ( <b>Trunk</b> )											
Butt Swell	Abnormal swelling at the base of the tree											
Canker discolored.	Localized diseased area on stems, roots and branches. Often shrunken and											
Codominant	Two or more trunks originating from a single main trunk											
Conk	The fruiting body of a fungus											
Critical Root	<b>Zone</b> Variously defined as an area extending to or outside the dripline to as much as 1-foot per inch or 1.5 inches of trunk diameter at DBH											
Crook	Abrupt bend in a branch or trunk											
Crown	The live branches or live leaves or live needles of a tree											
Crown ratio	The percentage of live green leaves or needles to total height											
Dieback	Notable dead foliage, starting at the end of a branch or the top of a tree											
Dripline	The extent of live limbs from the trunk											
Epicormic	A shoot arising from a dormant bud following exposure to sunlight											
Flat Side indicator of in	Trunk of the tree has a flattened appearance on the side, sometimes an ternal decay											
Girdling Roo	t A root that winds around the stem at ground level											
<b>Included Bar</b> point	<b>k</b> Bark that is pinched between codominant stems; a common weak											
Leader	The central stem tip											
Leaf Spot	Diseased areas on foliage											

**Limb Collar** The swelling at the junction of the bole and limb

**Photosynthesis** The process of converting water, nutrients and CO2 to carbohydrates (wood)

**Pitchy** Excessive sap exuding from the tree trunk; often an indicator of stress

**Pruning** The cutting and removal of limbs (**Crown Raising**)

**Rotten knot** Point of the stem where limb removal has allowed pathogen infection and decay (**Black knot**)

Root Disease Fungal decay of the root system often causing tree failure

**Taper**The ratio of diameter on different points of a trunk, stem or branch

**Thin Crown** Comparatively low live foliage percentage; often an indicator of root disease

**Topping** Removal of the main stem above live, green limbs

**Trimming** Shortening or cutting of limbs; sometimes called **heading** 

**Trunk Seam** A seam in the trunk, suggests internal decay

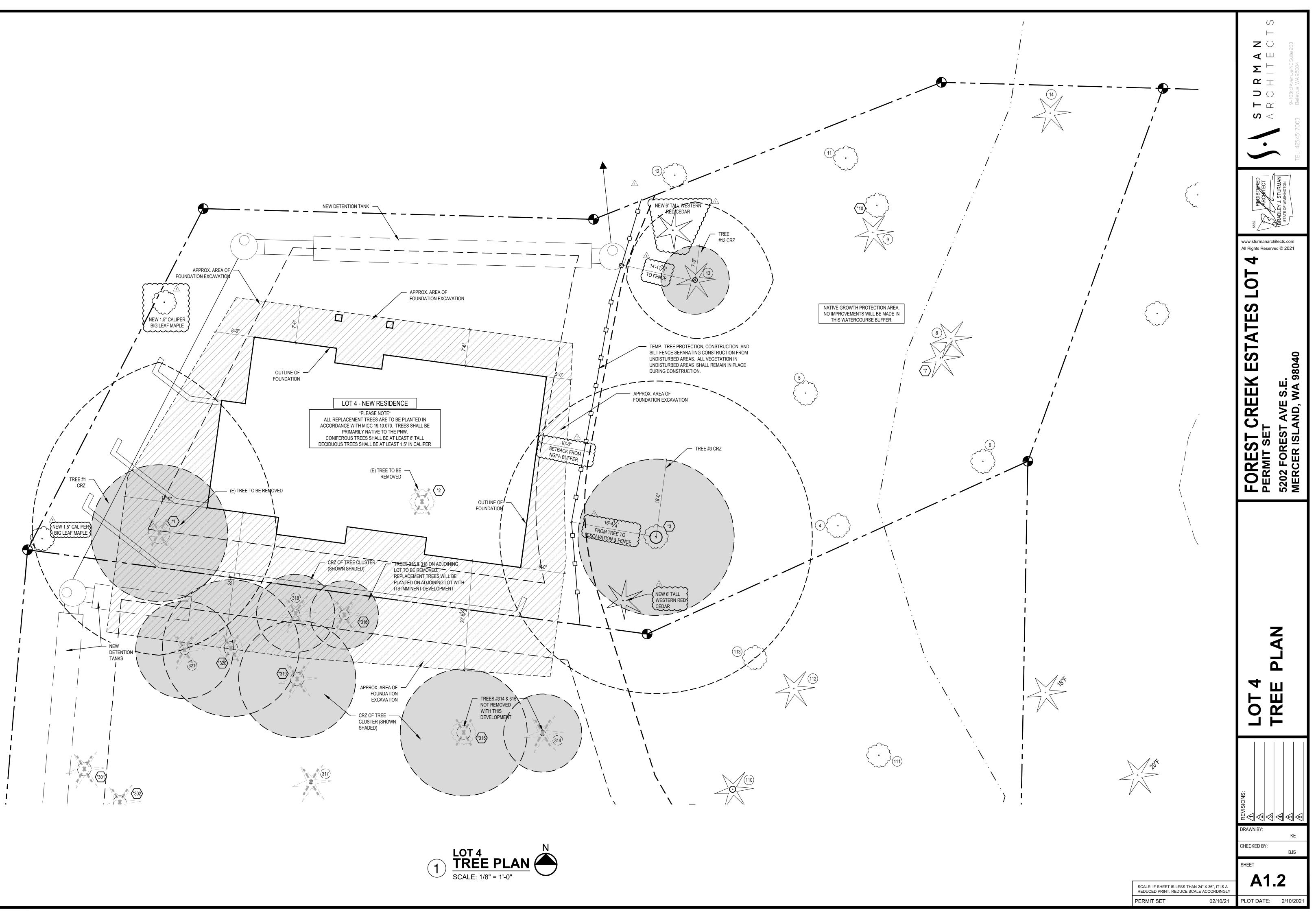
Viable A structurally sound and healthy condition, expected to live to normal life span

Vigor	Tree health and growth rate
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**Vitality** The suitability of the tree for the site.

# Addenda

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	LOT 4 Tree Assessment																	
Site:	Site: , Lot 4, Forest Ave , Mercer Island WA Date: 9/4/2020 (5/21/2020 inspected)(revised 2 14 /2021)																	
Tree #	Common	Species Scientific	DBH (inches)	Height (feet)	Crown Ratio (%)	N	Dripline N S E W		LOD/Critical Inner Root Zone		Vigor y ealth Structure y		Status		tus Replacement No.		Defects/Comments	
On Site																		
1	Bigleaf maple	Acer macrophyllum	53.5	115	70	35	25	24	26	14	Fair	Fair	No	Exceptional	Large		Remove	Two codominant stems, dying on east side
2	Bigleaf maple	Acer macrophyllum	34.9	115	70	25	18	30	28	13	Poor	Good	No	Exceptional	Large		Remove	Dead limb tips
4	Cascara	Rhamnus purshiana	7.4	28	80	14	16	18	14	8	Good	Good	Yes				Retain	Minor basal scar
5	Bigleaf maple	Acer macrophyllum	10.3	52	70	16	21	20	20	10	Good	Fair	Yes		Large		Retain	Top break
6	Western hemlock	Tsuga heterophylla	20.0	120	70	20	20	20	20	10	Fair	Poor	No		Large		Retain	Ivy, dead top
7	Douglas-fir	Psuedotsuga menziesii	24.2	110	30	18	18	18	18	9	Good	Good	Yes		Large		Retain	Ivy
8	Western hemlock	Tsuga heterophylla	14.6	70	0	0	0	0	0	0	0	0	0		Large		Retain	Dead
9	Western hemlock	Tsuga heterophylla	16.9	65	50	18	16	12	16	8	Good	Good	Yes		Large		Retain	Decay cavity to 30-feet, Open to 6-feet
10	W. red cedar	Thuja plicata	45.4	120	90	8	12	10	14	6	Fair	Poor	Yes	Exceptional	Exceptional Large Reta		Retain	Not a high hazard risk
11	Bigleaf maple	Acer macrophyllum	12.3	60	80	35	12	20	24	11	Good	Good	Yes	s Large Retain				
12	Bigleaf maple	Acer macrophyllum	9.8	60	38	16	12	16	14	7	Good	Good	Yes	Yes Retain		Retain		
									1	ative Growth I	Protectio	n Area						·
3	Bigleaf maple	Acer macrophyllum	30.1	117	40	32	32	32	32	16	Good	Good	Yes	Exceptional	Large		Remove	Ivy, basal scar
13	W. red cedar	Thuja plicata	11.8	80	40	16	12	16	14	7	Good	Good	Yes		Large		Retain	
101	Bigleaf maple	Acer macrophyllum	41.6*	110	70	35	35	35	35	18	Good	Good	Yes	Exceptional	Large		Retain	Three codominant stems
102	Western hemlock	Tsuga heterophylla	14.3	70	0	0	0	0	0	0	0	0	0		Large		Retain	Not a high hazard risk
103	Bigleaf maple	Acer macrophyllum	37.7*	95	60	32	32	32	32	16	Good	Good	Yes	Exceptional	Large		Retain	
104	Bigleaf maple	Acer macrophyllum	27.0	90	60	32	32	32	32	16	Good	Good	Yes		Large		Retain	
105	Bigleaf maple	Acer macrophyllum	19.5	90	40	18	0	0	28	6	Good	Fair	Yes		Large		Retain	Asymetric
106	Western hemlock	Tsuga heterophylla	12.1	20	0	0	0	0	0	0	0	0	0 Large Retain Not a hi		Not a high hazard risk			
107	Bigleaf maple	Acer macrophyllum	10.9	65	50	28	0	0	18	6	Good	Fair	Yes	Yes Large Retain Asymetric		Asymetric		
108	W. red cedar	Thuja plicata	7.3	30	90	14	10	10	14	6	Good	Good	Yes				Retain	
			* multiple ster	ns adjusted t	o single													

								L	от з	Tree Assessm	nent						
Site:	, Lot 3, Forest	Ave , Mercer Island WA										6/21/202	0 (rev 2	2/22/2021)			
Tree #	Common	Species Scientific	DBH (inches)	Height (feet)	Crown Ratio (%)	N	Drij S	Dripline S E W		LOD/Critical Inner Root Zone	Vigor Health Structure		Viable Yes/No	Status	Replacement No.	Retain Remove	Defects/Comments
On Site																	
301	Douglas-fir	Psuedotsuga menziesii	33.7	100	40	18	12	18	18	8	Fair	Poor	No	Hazard	0	Remove	Broken top, 2'x4'cavity
302	W. red cedar	Thuja plicata	31.8	125	60	12	22	18	22	9	Good	Fair	Yes	Exceptional	3	Remove	Heart rot to 8'
303	Douglas-fir	Psuedotsuga menziesii	9.9	55	60	12	13	13	6	6	Good	Good	Yes	Small	1	Remove	
304	Douglas-fir	Psuedotsuga menziesii	29.1	125	60	16	16	20	18	9	Good	Fair	Yes	Large	3	Remove	Heart rot to 4'
305	W. hemlock	Tsuga heterophylla	23.5	40	0	0	0	0	0	0	0	0	No	Hazard	0	Remove	Dead
306	Douglas-fir	Psuedotsuga menziesii	18.7	110	60	18	14	12	18	8	Good	Fair	Yes	Large	2	Remove	Heart rot to 3', top out
307	Douglas-fir	Psuedotsuga menziesii	38.9	125	50	18	24	20	24	11	Good	Good	Yes	Exceptional	6	Remove	
308	W. hemlock	Tsuga heterophylla	11.5	65	20	0	12	0	4	2	Poor	Fair	No	Hazard	0	Remove	Dying
309	Douglas-fir	Psuedotsuga menziesii	12.4	65	20	8	8	6	10	4	Fair	Good	Yes	Large	2	Remove	Suppressed
310	Bigleaf maple	Acer macrophyllum	47.5	110	70	34	36	30	32	17	Good	Good	Yes	Exceptional	6	Remove	Sweep east
311	Douglas-fir	Psuedotsuga menziesii	13.1	70	60	10	20	10	16	7	Good	Good	Yes	Large	0	Retain	
312	Douglas-fir	Psuedotsuga menziesii	9.8	60	40	8	16	10	8	5	Good	Good	Yes	Small	0	Retain	
313	Bigleaf maple	Acer macrophyllum	39.4*	110	50	32	32	30	34	16	Good	Good	Yes	Exceptional	0	Retain	leans east
314	W.hemlock	Tsuga heterophylla	13.5	70	50	16	14	25	12	8	Good	Good	Yes	Large	2	Remove	
315	Bigleaf maple	Acer macrophyllum	34.2	105	60	28	28	18	28	13	Good	Good	Yes	Exceptional	3	Remove	
316	Douglas-fir	Psuedotsuga menziesii	24.5	125	40	14	14	18	12	7	Good	Fair	Yes	Large	3	Remove	Minor heart rot
317	Douglas-fir	Psuedotsuga menziesii	9.4	70	20	10	8	10	4	4	Poor	Good	No	Small	0	Remove	Dying, suppressed
318	Douglas-fir	Psuedotsuga menziesii	19.1	95	50	10	24	12	14	8	Good	Good	Yes	Large	2	Remove	
319	Douglas-fir	Psuedotsuga menziesii	33.6	115	40	24	24	24	24	12	Good	Good	Yes	Exceptional	3	Remove	Top out
320	Bigleaf maple	Acer macrophyllum	33.5	95	40	28	28	28	30	14	Fair	Fair	No	Hazard	0	Remove	Thinning crown, dying
321	Douglas-fir	Psuedotsuga menziesii	23.7	105	60	16	20	22	18	10	Good	Good	Yes	Large	2	Remove	Top out, sweep west
													# Rej	placement trees	38		
							Ν	lative (	Frowth 1	Protection Area							
109	W.hemlock	Tsuga heterophylla	22.5	110	0	0	0	0	0	0	0	0	0	Large		Retain	Dead
110	W.hemlock	Tsuga heterophylla	15.2	65	30	12	14	16	2	6	Poor	Poor	No	Large		Retain	Dying
111	W.hemlock	Tsuga heterophylla	15.0	105	0	0	0	0	0	0	0	0	0	Large		Retain	Dead
112	W.hemlock	Tsuga heterophylla	12.5	55	0	0	0	0	0	0	0	0	0	Large		Retain	Dead
113	W.hemlock	Tsuga heterophylla	18.9	95	0	0	0	0	0	0	0	0	0	Large		Retain	Dead

# **CITY OF MERCER ISLAND**

# **COMMUNITY PLANNING & DEVELOPMENT**

9611 SE 36TH STREET | MERCER ISLAND, WA 98040

PHONE: 206.275.7605 | www.mercergov.org

Inspection Requests: Online: www.mybuildingpermit.com VM: 206.275.7730

# **TREE SUBMITTAL CHECKLIST**

If a box is checked, please provide the information in your next submittal

			SUBMITTAL ITEMS
1.	The	Merce	er Island Tree Inventory Form
	Prov	ide th	e City's Mercer Island Tree Inventory Form
2.	Arbo	orist re	eport/tree inventory
		ide ar rist re	n Arborist report, prepared by a qualified Arborist. Include the following information in the
	1.		cription of how the arborist meets the threshold requirements for Qualified Arborist.
	2.	А со	mplete description of each tree's diameter, species, critical root zone, limits of allowable urbance, health, condition, and viability.
	3.		scription of the method(s) used to determine the limits of allowable disturbance (i.e., critical zone, root plate diameter, or a case-by-case basis description for individual trees).
	4.	prot	special instructions specifically outlining any work proposed within the limits of disturbance ection areas (i.e. hand-digging, air space, tunneling, root pruning, any grade changes, ring, monitoring, and aftercare).
	5.	high spec	rees not viable for retention, a description of the reason(s) for removal based on poor health, risk of failure due to structure, defects, unavoidable isolation, windfirmness, unsuitability ies, etc. If there is no reasonable alternative action (pruning, cabling, etc.) possible, acement recommendations must be given.
	6.		ribe the impact of necessary tree removal on the remaining trees, including those in a grove n adjacent properties.
	7.		tribe timing and installation of tree protection measures. Such measures must include ing and be in accordance with the tree protection standards as outlined in MICC 19.10.
	8.	The	suggested location and species of replacement trees to be used when required. The report include planting and maintenance specifications to ensure long term survival.
	9.	A Tre	ee Inventory containing the following:
		a.	trees). The inventory shall also include large trees on adjacent property with driplines or critical root zones extending into the property.
		b.	Tree size (diameter). Where a tree splits into several trunks close to ground level, the dbh (Diameter at Brest Height) for the tree is the square root of the sum of the dbh for each individual stem squared (example with 3 stems: dbh = square root [(stem1)2 +(stem2)2 +(stem3)2 ]).
		с.	Proposed tree status (retained or proposed for removal).
		d.	Tree type or species.
		e.	Identify all Exceptional trees and differentiate between those less than 24 inches and those greater than or equal to 24 inches in diameter.
		f.	Brief general health or condition rating of each tree (i.e. poor, fair, good, etc.).

3. Site/tree retention plan

Indicate the following on all civil/utility and grading sheets. If there are no civil sheets indicate on the architectural site plan



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**COMMUNITY PLANNING & DEVELOPMENT** 

9611 SE 36TH STREET | MERCER ISLAND, WA 98040 PHONE: 206.275.7605 | <u>www.mercergov.org</u>

# TREE INVENTORY & REPLACEMENT SUBMITTAL INFORMATION

#### **EXCEPTIONAL TREES**

<u>Exceptional Trees</u>- means a tree or group of trees that because of its unique historical, ecological or aesthetic value constitutes an important community resource. A tree that is rare or exceptional by virtue of its size, species, condition, cultural/historical importance, age, and/or contribution as part of a tree grove. Trees with a diameter of more than 36 inches, or with a diameter that is equal to or greater than the diameter listed in the Exceptional Tree Table shown in MICC 19.16 under Tree, Exceptional.

List the total number of trees for each category and the tree identification numbers from the arborist report.

Number of trees 36" or greater

List tree numbers:

Number of trees 24" or greater (including 36" or greater)

List tree numbers:

Number of trees from Exceptional Tree Table (MICC 19.16)

List tree numbers:

#### LARGE REGULATED TREES

<u>Large Regulated Trees</u>- means any tree with a diameter of 10 inches or more, and any tree that meets the definition of an Exceptional Tree.

Number of Large Regulated Trees on site	(A)
List tree numbers:	
Number of Large Regulated Trees on site proposed for removal List tree numbers:	(B)
Percentage of trees to be retained ((A-B)/Ax100) note: must be at least 30%	%

#### **RIGHT OF WAY TREES**

<u>Right of Way Trees</u>- means a tree that is located in the street right of way adjacent to the project property.

Number of Large Regulated Trees in right of way

List tree numbers:

Number of Large Regulated Trees in right of way proposed for removal

\\chfs1\share\CPD\FORMS\1Current Forms\Engineering Forms\TreeInventoryReplacementSubmittalInformation.docx 1/2019



List tree numbers:

Reason for removal:

#### TREE REPLACEMENT

Tree replacement- removed trees must be replaced based on the ratio in the table below. Replacement trees shall be conifers at least six feet tall and or deciduous at least one and one-half inches in diameter at base.

			Number of Tree
	Tree	Number of	Required for
Diameter of Removed Tree (measured 4.5'	replacement	Trees Proposed	Replacement Based
above ground)	Ratio	for Removal	on Size/Type
Less than 10"	1		
10" up to 24"	2		
Greater than 24" up to 36"	3		
Greater than 36" and any Exceptional Tree	6		

TOTAL TREE REPLACEMENTS

- □ 1. Location of all proposed improvements (building footprint, access, utilities, buffers, required landscape areas).
- □ 2. Surveyed location of all large trees and Exceptional trees on the property
- Show the critical root zone of Large trees on adjacent properties if driplines extend over the subject property line.
- Trees labeled corresponding to the tree inventory numbering system on the Mercer Island Tree Inventory Form.
- 5. Identify Exceptional trees using different symbols for trees less than 24 inches and trees greater than or equal to 24 inches.
- □ 6. Location of tree protection measures.
- 7. Limits of excavation near potential saved trees (e.g. excavation limits for building foundation).
- 8. Indicate clearing limits/limits of disturbance (LOD) around all trees potentially impacted by site disturbances grading, demolition, construction activities (including approximate LOD of off-site trees with overhanging driplines), etc.
- 9. Proposed tree status (trees to be removed or retained) noted by an 'X' for removal.

#### 4. Replanting plan

□ Provide the Replanting plan showing proposed locations of any required replacement trees.

#### PEER REVIEW AND CONFLICT OF INTEREST

A peer review of the tree permit application by a qualified arborist may be required to verify the adequacy of the information and analysis. **The applicant shall bear the cost of the peer review.** 

The City Arborist may require the applicant retain a replacement qualified arborist or may require a peer review where the City Arborist believes a conflict of interest may exist.

For example, if an otherwise qualified arborist is employed by a tree removal company and prepares the arborist report for a development proposal, a replacement qualified arborist or peer review may be required.

#### ARBORIST QUALIFICATION

For tree reviews associated with a development proposal, a qualified arborist must have

- A minimum of three (3) years' experience working directly with the protection of trees during construction
- Have experience with the likelihood of tree survival after construction
- Be able to prescribe appropriate measures for the preservation of trees during land development
- ISA Tree Risk Assessment Qualification
- □ Your qualified arborists must have at least one (1) of the following credentials:
  - ISA Certified Arborist;
  - ISA Certified Arborist Municipal Specialist;
  - ISA Board Certified Master Arborist;
  - American Society of Consulting Arborists (ASCA) registered Consulting Arborist;
  - Society of American Foresters (SAF) Certified Forester for Forest Management Plans;

#### ADDITIONAL INFORMATION

Additional Information. The City Arborist or Code Official may require additional documentation, plans, or information as needed to ensure compliance with applicable City regulations.