Corinne R. Hollister

ISA CERTIFIED ARBORIST — *PN-6981A*
ISA TREE RISK ASSESSMENT QUALIFIED
American Society of Consulting Arborists, Member

Consulting Arborist Services

To:	Curtis Heard Altman Family Estate
Reference:	Tree Protection Guidelines and Response to Corrections
Date:	June 7, 2023
Site Address:	9167 SE 64th, Mercer Island 98040
Parcel:	3024059213 (West Lot)

Dear Mr. Heard,

You contacted me and subsequently contracted my services on behalf of the Altman family to respond to corrections from the City of Mercer Island regarding tree protection and tree replacement for the project proposed at the property referenced above. You provided online access to a plan set and comments from city arborist John Kenney. The focus of this report is to provide tree protection guidelines in response to those comments. Options for tree replacement are also included here. All data contained in this report is based on a tree inventory report authored by Favero Greenforest (PN-0143A), dated May 17, 2021.

Summary:

Total Onsite Regulated Trees	16
Total Onsite Significant Trees	1
Significant Trees Proposed for Removal	0
Total Onsite Exceptional Trees	15
Exceptional Trees Proposed for Removal	3
Total Trees Proposed for Retention	13
Total Small Trees Proposed for Removal	3
Replacement Trees Required	21
Total ROW Trees (Exceptional)	1
Total Offsite Significant Trees	2
Total Offsite Exceptional Trees	10
Total Non-Viable Trees *(not included in totals)*	22

NOTE: Nine (9) trees on the south portion of the lot were not inspected likely due to access limitations. A review of tree driplines indicates all are part of grove and thus exceptional – four (4) offsite and five (5) onsite. All are included in the totals above.

MICC 19.10.080 Tree Protection Standards establishes tree protection based on best management practices from the International Society of Arboriculture (ISA). Limits of disturbance (LOD) were provided in the Greenforest report, calculated using rootplate [1] and trunk diameter,[2,3] and ISA BMPs[4]. The LOD (or LOAD) is the minimum distance from a tree for any soil disturbance, represents the area to be protected during construction and assumes impact on only one side of the tree. This LOD measurement may be adjusted during the design and construction process, only if reviewed and approved by a city planner and/or the project arborist.

Contents

Introduction

This arborist report is focused on tree protection and tree replacement utilizing data provided by Favero Greenforest, May 17, 2021, and comments from Mercer Island city arborist John Kenney. Tree protection measures are based on LOD measurements provided by Mr. Greenforest, and on plan review and coordination with Mr. Heard. All tree protection guidelines contained in this report shall be added to site plans to ensure minimal disturbance and long-term survival for all retained trees. Tree protection fencing placement and grade changes cross inside dripline areas of retained trees. The project arborist shall be onsite for all work inside any tree protection areas, to monitor, reduce and document any disturbance.

All trees are listed in the inventory table which begins on page 10.

[1] Coder, Kim D. 2005. Tree Biomechanics Series. University of Georgia School of Forest Resources.
[2] Smiley, E. Thomas, Ph. D. Assessing the Failure Potential of Tree Roots, Shade Tree Technical Report. Bartlett Tree Research Laboratories.
[3] Fite, Kelby and E. Thomas Smiley. 2009. Managing Trees During construction; Part Two. Arborist News. ISA.
[4] Companion publication to the ANSI A300 Series, Part 5: Managing Trees During Construction. 2016. ISA.

Tree protection notes are included on page 5, and are annotated on the site illustration provided by Mr. Heard, on page 13. *Please note: the illustration does not show the entire parcel.*

Limitations and Use of this Report

This tree report establishes tree protection guidelines utilizing the most practical means available. This report is based on a visual tree inspection and data collected by another arborist, including ratings for health and structure, as well as any recommendations regarding tree viability and LOD measurements.

It is important to note that there are several factors which can affect a tree's condition, which may be pre-existing and indeterminable with only a visual analysis. It is my understanding that no attempt was made to establish the presence of hidden or concealed conditions which may contribute to the risk or failure potential of trees on or adjacent to the site. These conditions include root and stem (trunk) rot, internal cracks, structural defects or construction damage to roots, which may be hidden beneath the soil. In addition, construction and post-construction circumstances can cause a relatively rapid deterioration of a tree's condition.

I did not inspect the trees or visit the property and developed tree protection and replacement solely on plan review and coordination with Mr. Heard. Nine (9) trees on the south portion of the parcel were not inspected. Fencing installed at the property lines crosses inside tree protection areas and will likely impact retained trees. The project arborist shall be engaged to monitor and document all site prep and construction activities that cross inside dripline areas.

Tree Review/Comments

Page 1

2. (For Architect from intake screening) A replanting plan will be required. The arborist report indicates many exceptional grove trees are proposed for removal. These exceptional grove trees will require six replacement trees for every tree removed. A replanting plan should be created according to the following. The trees need to be at least 10' apart from each other, structures, fences and utilities. If requested and you can show no room exists on site for all the trees, the remainder can be a fee in lieu if requested. At least half of the trees need to be Pacific Northwest native, see the following link https://oregonstate.edu/trees/name_common.html. A tree watering plan that conforms with your geotechnical engineers recommendations must also be submitted to ensure the trees survive long term. A replanting plan is included in this report with notes on irrigation to ensure trees establish and survive.

Page 29

1. (From intake screening for Architect/Arborist) Exceptional trees are proposed for removal 3680,3681. Justification for their removal must be provided according to 19.10.060.A.3. Both trees are in good condition but in a drainage easement. Options that minimize tree impacts like above ground drainage without trenching would be an option that should be discussed. Alternative building methods should be explored to retain these trees per MICC19.10.080. Tree protection fencing shall be installed along the property lines with project arborist onsite. Access within tree protection areas is allowed only with project arborist onsite to monitor and document all impacts/disturbance to retained trees. Above-ground drainage shall be utilized to avoid disturbance within the dripline area of any retained tree. This will allow retention of grove trees on the south portion of the lot. Any adjacent disturbance offsite which may impact the retained trees shall proceed only after plan review and approval by the project arborist and a city planner. Three (3) exceptional trees proposed for removal are located within the proposed building footpring..

Page 30

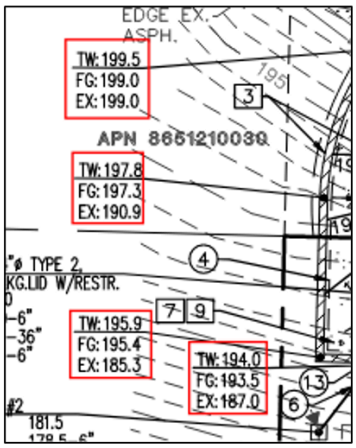
3. (For Civil from intake screening) See checklist for creating a tree protection plan. Show the building pad and all items in the checklist.
"https://www.mercerisland.gov/sites/default/files/fileattachments/community_planning_amp_development/page/21988/treessubmittalchecklist.pdf" treessubmittalchecklist.pdf (mercerisland.gov)

Tree Submittal Checklist submitted separately to Mr. Heard.

NOTE: Favero Greenforest indicated offsite exceptional trees #3557 and #3557.5 cannot be retained due to grade changes and associated fill. Those trees are currently shown as retained. Please show that these grade changes have been resolved or that a tree well and/or retained will will be installed to protect those trees. If removal is required, coordination and agreement with the adjacent property owner is required.

PROPOSED IMPACTS TO TREES
The proposed driveway will be constructed within the LOAD of offsite trees 3557 and 3557.5, two very large cottonwoods. The proposed encroachment is fill over the tree's rootplates from 6 to 7 feet above existing grade. See exhibit right for elevations.

Additionally, excavation for the NW corner of the proposed house will occur within a small portion the LOAD and dripline of these trees.



Tree Protection Guidelines

Tree removal: Removal of all trees adjacent to the tree protection area of any retained tree shall occur under the direction of the project arborist and be completed without impact to any retained tree – Trees #3560, #3562, #3563, #3599, #3600, #3617 and #3620 and all ROW trees proposed for removal. This may require tree climbers to cut and drop trees in sections, away from any retained tree and the tree protection area. Tree stumps and roots shall be ground in-place if necessary, rather than pushed over or pulled out by heavy equipment.

Tree protection fencing: A six-foot temporary chain-link fence or approved orange polyurethane equivalent shall be installed outside the driplines of all retained trees, as indicated on the annotated illustration in this report. All site plans shall be updated accordingly. Fencing shall be installed before any site disturbance, demolition or construction, and after tree removal and pruning for clearance is complete. The project arborist shall be onsite during fencing placement that crosses inside any dripline areas of retained trees to monitor and document any impacts. Fencing material, placement and any modifications to tree protection measures shall be approved by the project arborist or a city planner.

If fencing is not allowed in the ROW around Tree #3468, #3557 and #3557.5, a work zone shall be created to protect roots from compaction from potential construction traffic and/or parking – 5/4-inch plywood placed on top of a minimum 6-inch layer of arborists chips. *No disturbance is allowed inside tree protection zones. Currently you are indicating driveway construction and grade changes. Utilize tree wells to protect tree roots.*

General tree protections: No stockpiling of materials, vehicular or pedestrian traffic, material storage or use of equipment or machinery shall be allowed inside the tree protection fencing, or under any trees located in or adjacent to the ROW.

A 6- to 8- inch layer of arborist chips is recommended in the dripline area of all trees to retain moisture and limit soil compaction. Where the tree protection fencing is placed inside any dripline to allow for access, working space, demolition, construction, or grade changes, 5/4-inch plywood shall be placed on top of a minimum 6-inch layer of arborists chips for additional protection.

Onsite monitoring and documentation by project arborist: All necessary pruning for construction clearance, including ROW trees; tree removal as indicated above; installation and review of tree protection fencing prior to site work; any disturbance inside tree protection areas, and tree replacement planting.

All stormwater management and drainage shall be directed outside the driplines and away from any tree. Above-ground drainage will be installed on the south portion of the lot, with the project arborist onsite to monitor and document any disturbance to retained trees.

Fill or cuts to grade: No fill shall be placed inside tree protection areas as indicated by fencing or as work zones on the site plan. Any plans for fill deeper than 3 inches placed over roots within the dripline shall be reviewed by the project arborist and/or a city planner. No cuts to grade within the tree protection area are allowed without review and approval of a city planner and the project arborist. See notes above on Trees #3557 and #3557.5.

Landscaping: Soil amendment and planting within the dripline of any retained tree shall be kept to a minimum to limit root disturbance. Irrigation lines should not cross into undisturbed areas and increased watering added only as part of a long-term management plan for tree survival.

Pruning specifications: Canopy clearance on ROW trees shall be performed by an ISA certified arborist, monitored, and documented by the project arborist. All pruning shall be in accordance with ANSI Standards and BMPs established by the ISA.

A post-construction monitoring and maintenance plan shall be developed, including strategies for mulch, fertilization, irrigation, soil aeration and pruning, where necessary. All trees – retained and replanted – shall be inspected annually for five years after construction to assess changes in condition and signs of stress or disease.

Tree protection is required throughout construction.

Tree Replacement

Proposed Action	Regulated Category	Grove Tree	Tree ≥ 24" DBH	Tree #	DBH (QMD) (In.)	Tree Species (Common Name)	Dripline Radius (Ft.)	Health	Structure	Comments on Condition	Tree Type	Replacement Trees
Remove	Sml			3562		Maple or fir						1
Remove	Sml			3585		Maple or fir						1
Remove	Exc	X		3587	18	Red alder	16	1	2	Slender, ivy	D	6
Remove	Exc	X		3588	14	Red alder	14	1	2	Asymmetric, ivy	D	6
Remove	Exc	X		3592	15	Bigleaf maple	25	1	2	Double leader, ivy	D	6
Remove	Sml			3623		Maple or fir				Not on plan		1
Total Tree Replacement												21

MICC 19.10.070 requires replacement trees to be predominantly native species. Conifer species must be six (6) feet tall and deciduous species must be a minimum of 1.5 inches in caliper. I recommend the

placement of nine (9) trees on the property, based on space available. All replacement trees can be located south of the new home as space allows with retained trees protected.

Tree planting shall be conducted under the direction of the project arborist or a qualified horticulturist. All invasive species shall be removed prior to planting. Adjacent hazard or non-viable trees shall be turned into snags or cut and dropped in place, also under the direction of the project arborist.

Replacement trees shall be planted in the wet season from October 1 through April 1 to ensure adequate moisture to establish deep roots. Supplement watering during dry months, weeding and clearing of invasive species shall be part of a maintenance plan for a minimum of five (5) years, as required by code, to ensure survival. Any failed plantings shall be replaced to ensure full canopy restoration.

The total number of replacement trees, species and final placement will be included in a project landscape plan. Any required fee-in-lieu of planting will be determined by the City of Mercer Island.

Native species recommendations:
Vine maple (*Acer cercinatum*)
Cascara (*Rhamnus purshiana*)
Mountain hemlock (*Tusga mertensiana*)
Incense cedar (*Calocedrus decurrens*)
Douglas fir (*Pseudotsuga menziesii*)

Non-native species recommendations:
Whitebeam mountain ash (*Sorbus aria*)
Paperbark maple (*Acer griseum*)
Carrierei hawthorn (*Crataegus x lavallei*)

Tree Removal

Please see original tree inventory report by Greenforest for details on tree removal and viability. Onsite tree removal, once approved, shall be completed by a certified arborist following ANSI A300 Standards, monitored and documented by the project arborist to ensure any trees removed will not negatively impact any retained trees.

Attachment 1: Assumptions and Limiting Conditions

1. A did not perform a field examination of the site. All data has been obtained from a tree inventory report authored by Favero Greenforest, May 17, 2021. Nine (9) trees were not inspected but included in the totals in this report.

2. Care has been taken to obtain all information from reliable sources. All data has been verified insofar as possible; however, as the consultant/arborist I can neither guarantee nor be responsible for the accuracy of information provided by others.

3. I am not a qualified land surveyor, and this tree protection and replacement report is based on plan review. Sketches and photographs in this report are not necessarily to scale and should not be construed as an accurate survey.

4. I, as consultant/appraiser, shall not be required to give testimony or to attend court by reason of this report unless subsequent contractual arrangements are made.

5. Unless stated otherwise: 1) information contained in this report covers only those trees included in the tree inventory table; and 2) the inspection by Greenforest was limited to visual examination of the subject trees without dissection, excavation, probing, or coring. There is no warranty or guarantee, expressed or implied that problems or deficiencies of the subject trees may not arise in the future.

6. Unless required by law otherwise, possession of this report or a copy thereof does not imply right of publication or use for any purpose by any other than the person to whom it is addressed, without prior written or verbal consent of the consultant.

7. All trees possess the risk of failure. Trees can fail at any time, with or without obvious defects, and with or without applied stress. Risk management is solely the responsibility of the landowner.

8. Construction activities can impact trees in unpredictable ways. All retained trees should be inspected at the completion of construction, and regularly thereafter as part of ongoing maintenance.

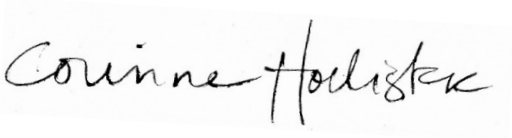
Attachment 2: Certificate of Performance

I, Corinne Hollister, certify that:

- I have personally inspected the trees and the property referred to in this report and have stated my findings accurately.
- I have no current or prospective interest in the vegetation or the property that is the subject of this report and have no personal interest or bias with respect to the parties involved.
- The analysis, opinion, and conclusions stated herein are my own and are based on current industry standards, scientific procedures and facts.
- My analysis, opinion, and conclusions were developed and this report has been prepared according to commonly accepted arboricultural practices.
- No one provided significant professional assistance to me, except as indicated within the report.
- My compensation is not contingent upon the reporting of a predetermined conclusion that favors the cause of the client or any other party nor upon the results of the assessment, the attainment of stipulated results, or the occurrence of any subsequent events.

I further certify that I am a member in good standing of the International Society of Arboriculture (ISA), and the ISA PNW Chapter, I am an ISA Certified Arborist (#PN-6981A) and am Tree Risk Assessment Qualified. I also am a member of the American Society of Consulting Arborists (ASCA).

Signed,



Corinne Hollister

Corinne Hollister Digitally signed by Corinne Hollister Date: 2023.06.07 08:55:13 -07'00'

Date: June 7, 2023

Attachment 3: Tree Inventory Table

Orange shading indicates non-viable trees shown for removal on site plans; Green shading indicates trees not inspected as part of original inventory. Offsite trees indicated in left column. See notes at end of table.

Tree Outside Of Disturbed Area	Offsite/Row	Proposed Action	Regulated Category	Grove Tree	Tree > 24" DBH	Tree Number	DBH (QMD)	Tree Species (Common Name)	Exceptional Threshold (In.)	Dripline Radius (Ft.)	Health	Structure	Comments on Condition	Tree Type	Viable Tree?	LOAD Radius (Ft.)	Replacement Trees
	Exc	Protect*		X		3468	17.3	Western red-cedar	30"	16	1	1		C	Y	17	
	Exc	Remove		X		3470	11	Western red-cedar	30"	10	3	3	Decline, double leader	C	N	6	
	Exc	Remove		X		3471	22	Red alder	30"	16	2	3	Ivy, slender, pruned for OHPL	D	N	11	
	Sig	Remove				3472	10	Western red-cedar	30"	0	3	3	Dead	C	N	6	
	Exc	Remove		X		3473	13	Red alder	30"	14	3	3	Ivy, lean, topped for OHPL	D	N	7	
	Exc	Remove		X		3552	10	Red alder	30"	16	2	3	Decline, lean, ivy	D	N	6	
	Exc	Remove		X		3553	12, 13 (17)	Bigleaf maple	30"	20	2	3	Suppressed, topped, ivy, double leader	D	N	8	
		Remove				3555				0	3	3	Dead, excluded from totals				
	Exc	Protect*		X	X	3557	40	Black cottonwood	30"	25	1	2	Asymmetric	D	Y	20	
	Exc	Protect*		X	X	3557.5	34.4	Black cottonwood	30"	35	1	2	Asymmetric	D	Y	17	
		Remove	**Exc**	**X**	**X**	3559	**21, 43 (48)**	**Bigleaf maple**	**30"**	**35**	**1**	**3**	**Decay, Kretzschmaria, previous failure**	**D**	**N**	**25**	
		Remove	Sig			3560	9	Red alder	30"	14	2	3	Decline, asymmetric	D	N	6	
		Remove	Sml			3562		Maple or Fir								6	1
		Remove	Exc	X		3563	10	Red alder	30"	12	2	3	Decline, slender, asymmetric	D	N	6	
	Exc			X		3564	13	Bigleaf maple	30"	14	3	3	Ivy, topped for OHPL	D	N	7	

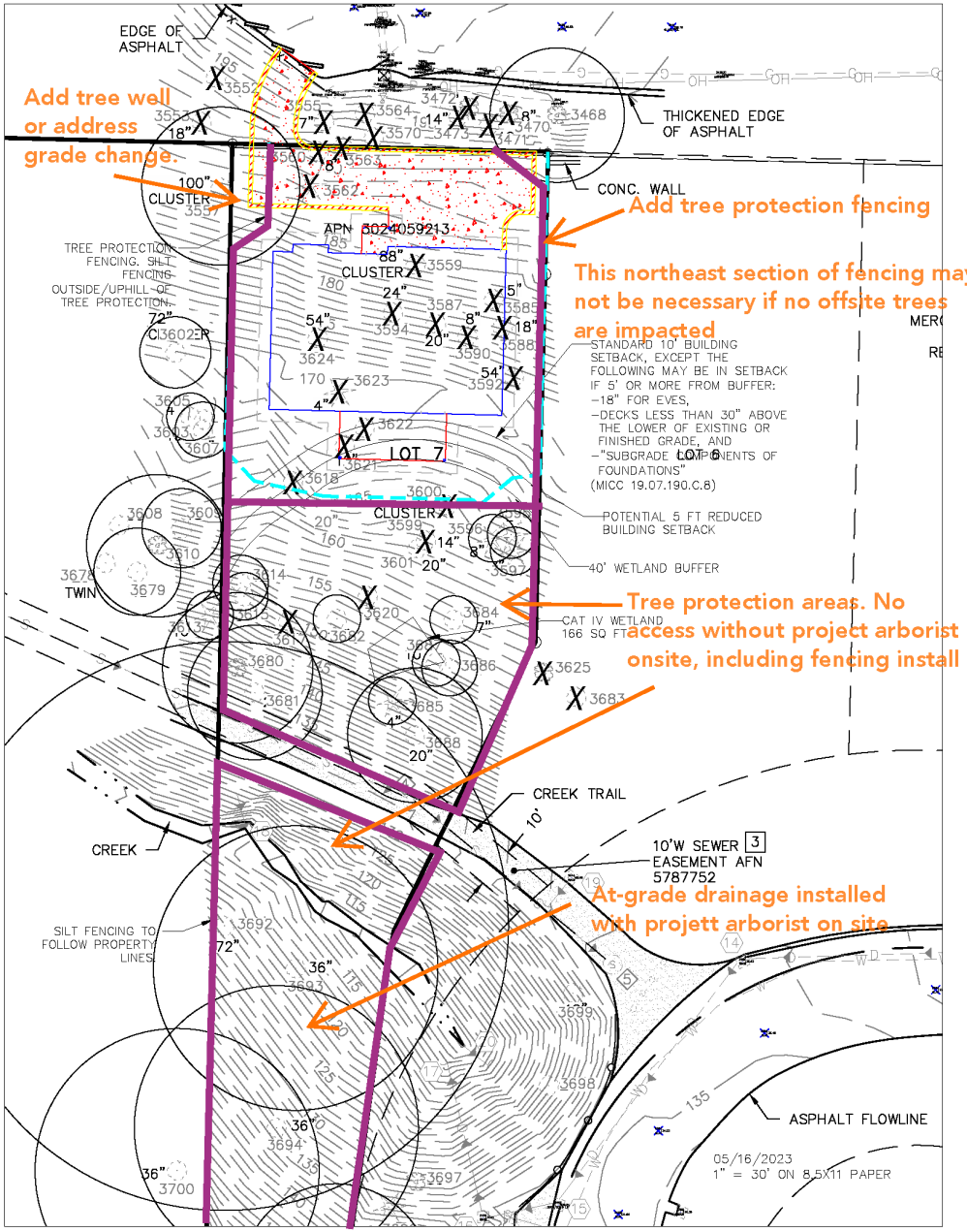
Tree Outside Of Disturbed Area	Offsite/Row	Proposed Action	Regulated Category	Grove Tree	Tree ≥ 24" DBH	Tree Number	DBH (QMD)	Tree Species (Common Name)	Exceptional Threshold (In.)	Dripline Radius (Ft.)	Health	Structure	Comments on Condition	Tree Type	Viable Tree?	LOAD Radius (Ft.)	Replacement Trees
	Exc			X		3570	11	Red alder	30"	16	1	3	Slender, lean, ivy	D	N	6	
		Remove	Sml			3585		Maple or Fir								6	1
		Remove	Exc	X		3587	18	Red alder	30"	16	1	2	Slender, ivy	D	Y	17	6
		Remove	Exc	X		3588	14	Red alder	30"	14	1	2	Asymmetric, ivy	D	Y	7	6
		Remove	Exc	X		3590	10	Red alder	30"	10	2	3	Bow, ivy	D	N	6	
		Remove	Exc	X		3592	9, 12 (15)	Bigleaf maple	30"	25	1	2	Double leader, ivy	D	Y	7	6
		Remove	Exc	X		3594	12	Bigleaf maple	30"	14	3	3	LCR, ivy, previous failure	D	N	6	
		Retain	Sml			3595	9	Western hemlock	24"	12	1	2	Ivy, on stilts	C	Y	6	
		Retain	Sml			3596	8	Western hemlock	24"	14	1	2	On stilts	C	Y	6	
		Retain	Sml			3597	8	Western hemlock	24"	14	1	2	On stilts	C	Y	6	
		Remove	Exc	X		3599	14	Bigleaf maple	30"	20	1	3	Previous failure, dogleg	D	N	7	
		Remove	Exc	X		3600	20	Bigleaf maple	30"	25	1	3	Previous failure, ivy	D	N	10	
		Protect*	Exc	X		3601	22.3	Western hemlock	24"	16	1	2	Ivy	C	Y	11	
	Exc	Protect		X		3602	11, 15 (18)	Bigleaf maple	30"	25	1	2	Stumpsprout	D	Y	9	
	Sml	Protect				3605		Maple or Fir								6	
						3606				0	3	3	Dead, excluded from totals. Not on plan.				
	Exc	Protect		X		3607	14	Red alder	30"	16	1	1		D	Y	7	
X						3608											
X	Exc	Protect		X		3609	19.1	Bigleaf maple	30"	25	1	1		D	Y	10	
X	Exc	Protect		X	X	3610	36.5	Western red-cedar	30"	18	1	1		C	Y	18	
	Exc	Protect*		X		3613	10.8	Western hemlock	24"	13	1	2	Sweep	C	Y	6	

Tree Outside Of Disturbed Area	Offsite/Row	Proposed Action	Regulated Category	Grove Tree	Tree ≥ 24" DBH	Tree Number	DBH (QMD)	Tree Species (Common Name)	Exceptional Threshold (In.)	Dripline Radius (Ft.)	Health	Structure	Comments on Condition	Tree Type	Viable Tree?	LOAD Radius (Ft.)	Replacement Trees
		Retain*	Exc	X		3614	14	Bigleaf maple	30"	16	1	2	Asymmetric, sweep, ivy	D	Y	7	
		Retain*	Sml			3615		Maple or Fir								6	
		Remove	Exc	X	X	3617	25.5	Bigleaf maple	30"	35	1	3	Asymmetric, sweep, previous root plate failure. Not on plan	D	N	13	
		Remove	Exc	X		3618	16.5	Bigleaf maple	30"	18	1	3	Slender, ivy. Not on plan	D	N	8	
		Remove	Exc	X	X	3620	26.5	Bigleaf maple	30"	30	1	3	Multiple leader, ivy, hollow. Not on plan.	D	N	13	
		Remove	Exc	X		3621	13.6	Bigleaf maple	30"	16	1	3	Slender, topped, ivy. Not on plan	D	N	7	
		Remove	Sml			3622	6.8	Bigleaf maple	30"	12	1	3	Slender, topped, ivy. Not on plan	D	N	6	
		Remove	Sml			3623		Maple or Fir					Not on plan			6	1
		Remove	**Exc**	**X**	**X**	**3624**	**(6) 10-15 (31)**	**Bigleaf maple**	**30"**	**25**	**1**	**3**	**Stumpsprout, ivy. Not on plan**	**D**	**N**	**15**	
	Exc	Remove		X		3625	19	Bigleaf maple	30"	25	1	3	Lean, previous root plate failure	D	N	10	
X						3678											
X	Exc	Protect		X		3679	12,19 (22)	Bigleaf maple	30"	25	1	2	Asymmetric, double leader	D	Y	11	
		Retain*	**Exc**	**X**	**X**	**3680**	**38.5**	**Western red-cedar**	**30"**	**18**	**1**	**1**		**C**	**Y**	**19**	
		Retain*	**Exc**	**X**	**X**	**3681**	**34.4**	**Bigleaf maple**	**30"**	**25**	**1**	**2**	**Asymmetric, ivy**	**D**	**Y**	**17**	
		Retain•	Sig			3682	9.5	Red alder	30"	14	1	2	Slender, ivy	D	Y	6	
						3683							Blown down; excluded from totals				
X		Retain	Sml			3684		Maple or Fir								6	

Tree Outside Of Disturbed Area	Offsite/Row	Proposed Action	Regulated Category	Grove Tree	Tree ≥ 24" DBH	Tree Number	DBH (QMD)	Tree Species (Common Name)	Exceptional Threshold (In.)	Dripline Radius (Ft.)	Health	Structure	Comments on Condition	Tree Type	Viable Tree?	LOAD Radius (Ft.)	Replacement Trees
X		Retain	Sml			3685		Maple or Fir								6	
X		Retain	Exc	X		3686	13.5	Red alder	30"	16	1	2	Slender, ivy	D	Y	7	
X		Retain	Exc	X		3687	10.7	Red alder	30"	16	1	2	Slender, ivy	D	Y	6	
X		Retain	Exc	X		3688	18.2	Bigleaf maple	30"	20	1	2	Ivy	D	Y	17	
		Retain*	Exc	X		3692							Tree not inspected				
		Retain*	Exc	X		3693							Tree not inspected				
		Retain*	Exc	X		3694							Tree not inspected				
		Retain*	Exc	X		3695							Tree not inspected				
		Retain*	Exc	X		3696							Tree not inspected				
	Exc	Protect*		X		3697							Tree not inspected				
	Exc	Protect*		X		3698							Tree not inspected				
	Exc	Protect*		X		3699							Tree not inspected				
	Exc	Protect*		X		3700							Tree not inspected				

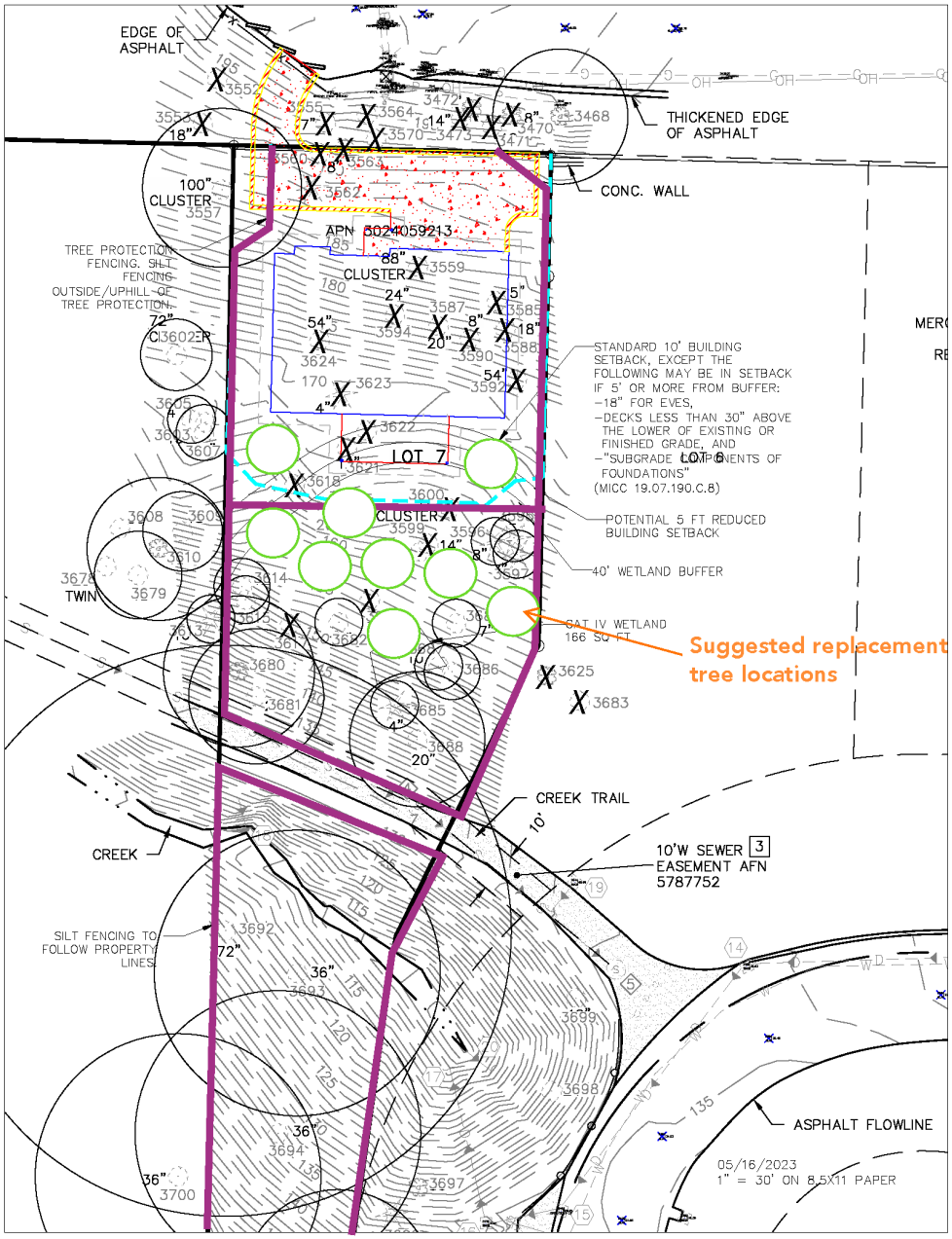
*Project arborist shall be onsite for any activity or disturbance within the dripline of these retained and protected trees, including installation of tree protection fencing and/or silt fencing. Some of these trees are located very close to the property boundaries where fencing is shown. See specific concerns for tree #3468, #3557 and #3557.5 No data was collected and provided for trees #3692-#3700, all grove trees.

Attachment 4: Annotated Site Illustration – Update Site Plans

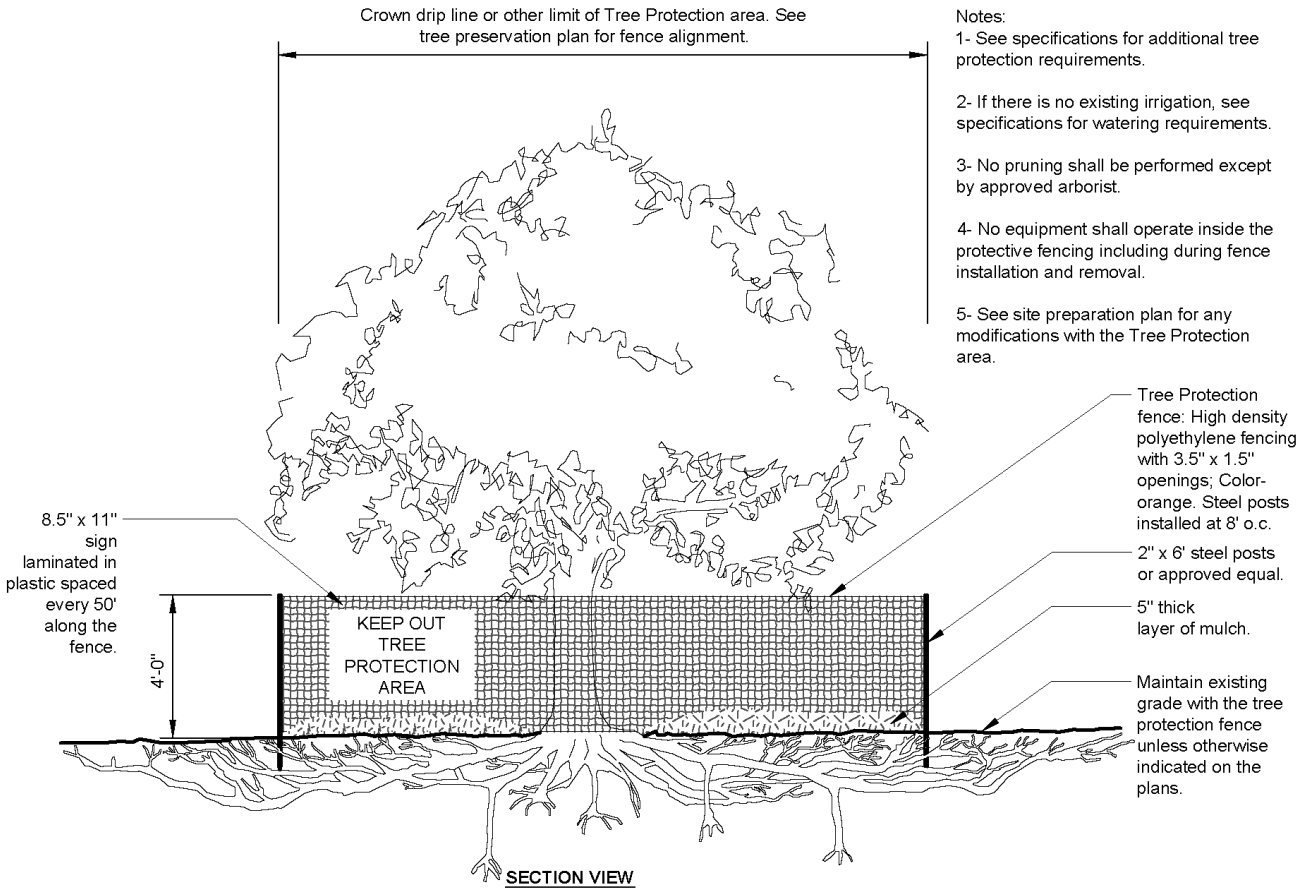


Attachment 5: Recommended Replacement Tree Locations

Nine (9) of 21 required. See pages 6-7.



Attachment 6: Tree Protection Fencing Detail



S-X TREE PROTECTION

Attachment 7: Planting Detail