3705 77<sup>th</sup> PI SE (Mercer Island) August 8, 2022 Page **1** of **2** 

# Washington Tree Experts 9792 Edmonds Way #123 Edmonds, WA 98020 206-362-3380 wtetree@yahoo.com

**Parcel #:** 5458800550 **Street:** 3705 77<sup>th</sup> Pl. SE

City, Zip: Mercer Island, WA 98040 C/O: CC Home Design LLC

### Assignment:

Provide tree inventory and site details to meet development requirements.

### Site and trees (see attached site map and inventory):

3705 77<sup>th</sup> Pl. SE is an 8,345 square foot residential lot with a single-family home.

There are 5 significant trees on the property. The trees are all in good health with good structures. Trees have been identified and numbered with aluminum tags. Tree diameters were measured using a diameter tape.

Two trees will require removal and replacement due to construction impacts. #3 and 5 Cherry trees (*Prunus* sp.). Removal will not adversely affect the remaining trees for retention.

Retention trees will be protected with sturdy fencing around the tree protection zone (TPZ) for the duration of the development project and according to standards MICC 19.10.8. The TPZ is equal to the driplines of the trees. Prohibited activities include, but are not limited to grade changes, trenches, root cutting, equipment traffic, or storing of materials.

#### Recommendations:

All retained trees should be reassessed after the project and a plant health care plan should be initiated.

In examining each tree, we look at such factors as:

- -size
- -vigor
- -crown health
- -deadwood and hanging branches
- -pest and disease

While no one can predict with absolute certainty if a tree will or will not fail, we can, by using scientific process assess which of the trees is most likely to fail and take appropriate action.

,	Washington Tree Ex	perts Certified Arboris	t

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Prepared by



Jennifer Wells Certified Arborist #PN6209A ISA Qualified Tree Risk Assessor

To prepare this report, I drew upon my formal education in arboriculture and training used to obtain my International Society of Arboriculture credentials. Over my seventeen year career I have worked with a diverse range of clients before, during, and after development projects with trees.

#### Waiver of Liability

This information represents the tree health assessment at this point in time. My findings do not guarantee future safety nor are they predictions of future event. Information contained in this report covers only those items that were examined and reflects the condition of those items at the time of inspection. The inspection is limited to visual examination of accessible items without dissection, excavation, probing, or coring.

#### **Attachments**

- -site map for illustration only and not to scale
- -tree inventory

#### **Texts**

M. Dirr-Manual of Woody Landscapes, Fifth Edition, 1998 R. Harris, J. Clark, N. Matheny-Arboriculture Third Edition 1999 ANSI A300 Part 5-2019 Management of Trees and Shrubs During Site Planning, Site Development, and Construction

Washington Tree Experts Certified Arborist	
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# Tree Inventory Table 3705 77<sup>th</sup> Pl. SE

Tree ID	Scientific Name	Common Name	DBH (in)	Health Condition	Structural Condition	Combined Viability	Exceptional (Y/N)	Proposed Action	TPZ	Notes
1	Pinus mugo	Mugo pine	14	Good	Good	Viable	No	Retain	Dripline	Ornamental bonsai
2	Acer palmatum	Japanese maple	12	Good	Good	Viable	No	Retain	Dripline	
3	Prunus serrulata	Flowering cherry	16	Good	Good	Viable	No	Remove		Construction encroaches the critical root zone
4	Prunus subhirtella 'Pendula'	Weeping Flowering Cherry	6	Good	Good	Viable	No	Retain	Dripline	
5	Prunus sp.	Cherry	8	Good	Good	Viable	No	Remove		Pest and disease issues/ construction encroaches the critical root zone
6	Pinus sp.	Pine	20				No			Neighboring tree
7	Prunus sp.	Cherry	8				No			Neighboring tree
8	Prunus sp.	Cherry	9				No			Neighboring tree
9	Photinia	Photinia	14				No			Neighboring tree
10	Picea sp.	Spruce	12				No			Neighboring tree
11	Prunus sp.	Cherry	13				No			Neighboring tree
12	Prunus sp.	Cherry	8				No			Neighboring tree

## AVERAGE BUILDING ELEVATION PROPOSED RESIDENCE WALL | WALL SEGMENT | MIDPT. ELEY. | WALL SEGMENT x ELEY 126.0' 2333<u>.</u>5 126.0' 120.0' 43Ø8 120.0' 8138<u>.53</u> 12*0.0*' 4389.17 121*.*Ø' 126.0' 752*Ø.*1 21623.5 AVERAGE BUILDING ELEVATION = 21623.5/175' =123.56' MAXIMUM BUILDING HEIGHT = 123.56' + 30.0' = 153.56'

BASEMENT FLOOR AREA CALCULATION						
WALL	LENGTH	COVERAGE	RESULT			
Д	9.08	100%	9.08%			
B	1'	100%	1%			
С	12'	100%	12%			
D	19.33'	6.3	1.22%			
E	19.5'	18.6%	3.63%			
TOTAL	60.91'		26.93%			

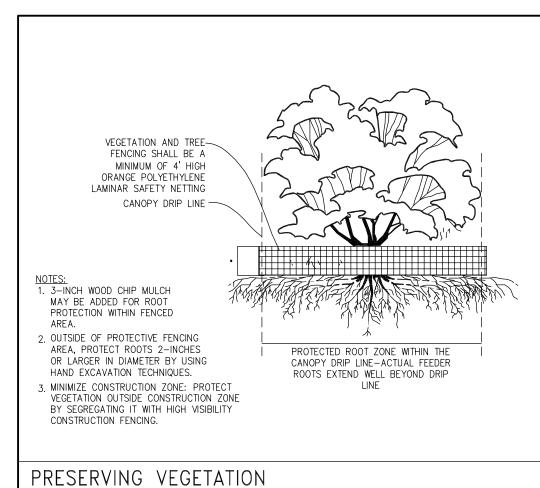
PROPOSED BUILDING HEIGHT = 151.95'

PORTION OF EXCLUDED BASEMENT FLOOR AREA: 619 (ACTUAL SQ, FT. W/ GARAGE) X (26.93/60.91) = 273.7 SQ. FT. AREA OF BASEMENT EXCLUDED = 619-273.7 = 336 SQ. FT.

GROSS FLOOR AREA		
LOWER FLOOR W/ GARAGE	619	SQ. FT.
MAIN FLOOR W/ GARAGE	1635	SQ. FT.
UPPER FLOOR	1360	SQ. FT.
TOTAL	3614	SQ. FT.
BASEMENT EXCLUDED	336	SQ. FT.
TOTAL	3278	SQ. FT.
LOT AREA	8,345	SQ. FT.
SQUARE FOOTAGE ALLOWED (40%)	3338	SQ. FT.

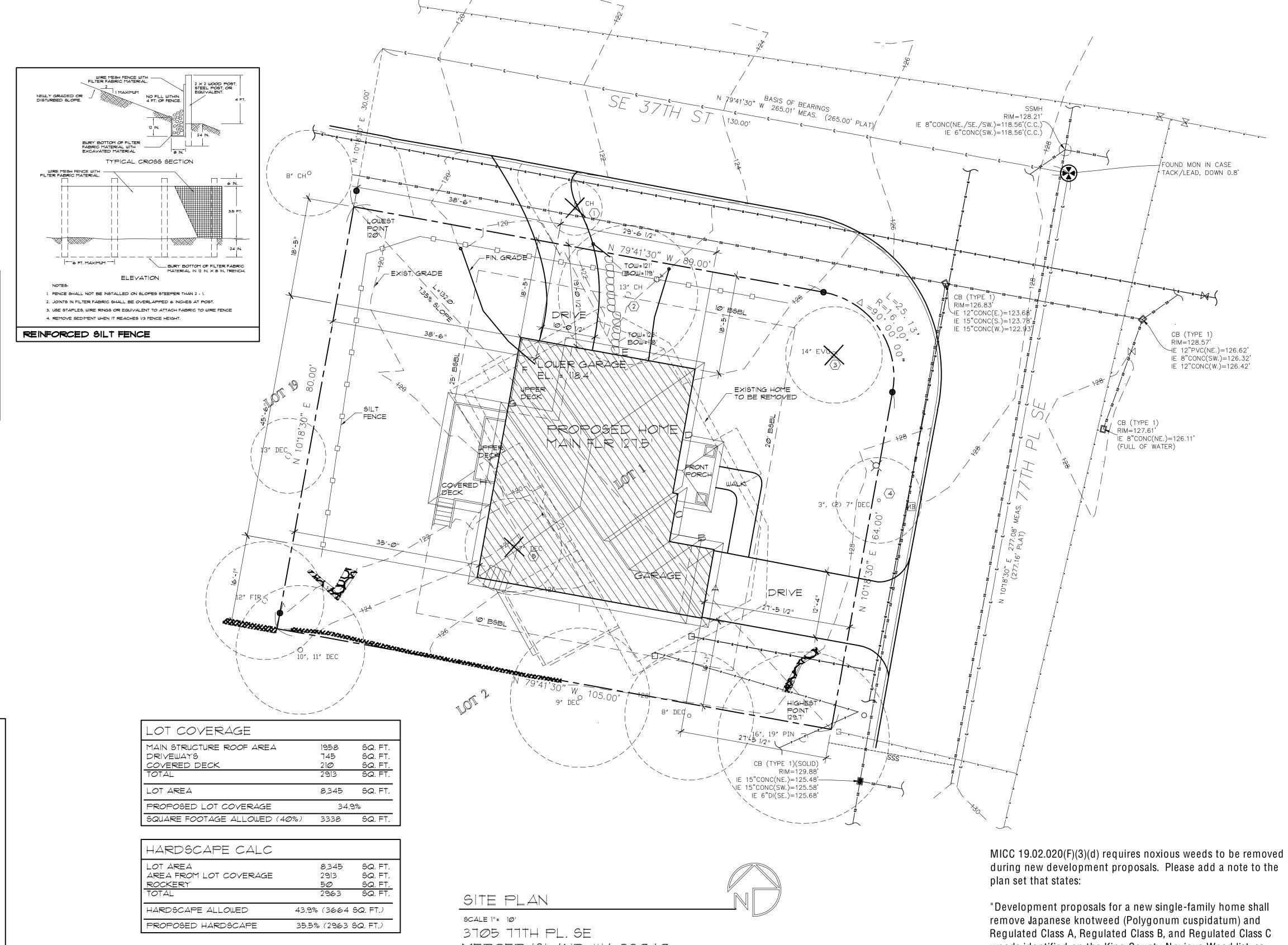
## IMPERYIOUS SURFACE PROPOSED HOME W/ O.H. 1860 SQ. FT. COVERED DECK 210 SQ. FT. FRONT PORCH 79 SQ. FT. WALKS AND DRIVE 743 SQ. FT. 2,892 SQ. FT. (34.7%) TOTAL LOT AREA 8,345 SQ. FT.

ALLOWABLE



3,338 SQ. FT. (40%)

	TREE INVENTORY				
EXISTING TREES	SPECIES	DIAMETER	RETAINED		
1>	CHERRY	6"	NO	R.O.W.	
2	CHERRY	12"	YES		
3	EVRGN	14"	NO		
4	DEC.	3"(2) T"	YES	R.O.W.	
<b>(5)</b>	DEC.	۳"	NO		



CONTACT: CHARLIE CHEN P.O. POX 317 MERCER ISLAND, WA 98040 PH: 206 - 235-8818

MERCER ISLAND, WA 98040

PARCEL #5458800550 ZONING: R-8.4

LEGAL:

(PER STATUTORY WARRANTY DEED RECORDING# 199411230981)

LOT 1, BLOCK 7, MERCERDALE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 59 OF PLATS, PAGES 94, 95 AND 96, IN KING COUNTY, WASHINGTON.

weeds identified on the King County Noxious Weed list, as amended, from required landscaping areas established pursuant to subsection 19.02.020(F)(3)(a). New landscaping associated with new single-family home shall not incorporate any weeds identified on the King County Noxious Weed list, as amended. Provided, that removal shall not be required if the removal will result in increased slope instability or risk of landslide or erosion."

Pursuant to MICC 19.02.050(D) any "...rockeries, retaining walls, fences, or any combination thereof, are limited to a maximum height of 42 inches within that portion of any required yard which lies within 20 fee of any improved street." Please indicate the height of the rock wall that falls within 20 feet of the public-right-of way.

If the height exceeds the 42-inch height limitation you can apply for a fence height deviation pursuant to MICC 19.02.050(F).

Fence height deviation required for 4' retaining walls.

JOB NO: 21006 DATE: 6/13/22 DRWN. BY: TH REVISED: 9/8/22

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SHEET NO.

