Site Development Information

Worksheet for single family residential development

Project description: NEW SINGLE FAMILY RES Address: 56:	37 F. MERCER WAT
Owner Name: MI TREEHOUSE, LLC Phone No.425 454 30	96 Date 9.30.16
Signature & phone number of Individual who Completed this Worksheet (I hereby state that the information provided by me is true and correct to the best of my knowle	425 · 454 · 309 6
Will any large trees be removed as a result of this development activity? Yes	
Large tree—conifers ≥ 6" tall, deciduous with diameter > 6".	
Do you have an Accessory Dwelling Unit? New ADU Existing ADU	None 🔽
This is intended as a worksheet and is not a substitute for the Mercer Island Development Regulations. Please consult the City of Mercer Island — Development Services Group 9511 S.E. 35th Street, Mercer Island, Washington 96040	

DEVELOPMENT INFORMATION

LOT SLOPE—According to the Mercer Island City Code, slope is a measurement of the average incline of the lot or other piece of land calculated by subtracting the lowest elevation of the property from the highest elevation, and dividing the resulting number by the shortest horizontal distance between these two points. The peopling provides multiplied by 100

OCT 18 2016

CITY OF MERCER ISLAND

LOT COVERAGE—On Mercer Island, the overall degree of lot slope governs total lot coverage. When calculating maximum allowable lot coverage, include all impervious surfaces, such as roof areas of primary and accessory buildings, impervious decks, patios, sidewalks, driveways and access easements. Refer to page 3 for more information about Pavers and Other Impervious Surfaces and Exemptions.

*The applicant shall note that impervious surface exemptions to lot coverage do not apply to stormwater runoff calculations or to critical areas.

The table below offers basic guidelines on lot slope and allowable lot coverage:

Lot Slope Less than 15% 15% - less than 30% 30% - 50% Greater than 50% Allowed Lot Coverage

No more than 40% No more than 35% No more than 30% No more than 20%

A steep slope is any slope of 40 percent or greater calculated by measuring the vertical rise over any 30-foot horizontal run.

Please refer to page 3 for materials that are exempt from lot coverage calculations per MICC 19.02.020(D)(2).

Pavers and gravel surfaces for vehicular access are ALWAYS considered 100% impervious.

LOT INFORMATION

LOT SLOPE	- 0	
Highest Elevation Point of Lot	226	_ ieei
Lowest Elevation Point of Lot	159	feet
Elevation Difference	67	teet
Horizontal Distance Between High and Low Points	23A	_ feet
Lot Slope*	28.6	- %
Was silver in the silverties of the	and distributed by many	- Lorina

*Lot slope is the elevation difference divided by harmonical distance multiplied by 100

1007	· · · · · · · · · · · · · · · · · · ·			
LOT COVERAGE				
Allowed Lot Coverage	35	% of Lot		
Gross Lot Area	37,554	Sq. Ft.		
Main Structure Roof Area	2238	Sq. Ft.		
Accessory Building Roof Area		Sq. Ft.		
Impervious Deck, Patio, Walkway Area	200	Sq. Ft.		
Vehicular Use (Driveway, Access Easements, Parking)	1470	Sq. Ft.		
Total Existing Impervious Surface	625	Sq. FL		
(Total Area Removed)	()	Sq. Ft.		
Total New Impervious Surface Area	3908	Sq. Ft.		
Total Project Impervious Surface Area (Existing plus new)	4595	Sq. Ft.		
Proposed Lot Coverage	12.2	% of Lot		
Lot Coverage equals total impervious surface area divided by the gross lot area multiplied by 100				

, *	
	,

BUILDING AREA—All building areas must be identified and labeled on the site plan. Please distinguish all new construction from existing areas on both your drawing and in the calculations you complete to the right.

Will you be excluding a portion of the basement floor area?

No Π Y≅

If yes, you must provide basement floor area calculations, with your building permit application, that show how you determined what portion of the basement will be excluded. Refer to page 4.

BUILDING AREA	Existing Area	Removed Area	New/Addition Area	Total	
Upper Floor	Sq. Ft.	Sq. Ft.	926 Sq. Ft.	924 Sq. Ft	
Main Floor	Sq. Ft.	Sq. FL	1632 Sq. Ft	1632 Sq.Ft	
Gross Basement Area	Sa. Ft	Sq. Ft.	1100 sq. Ft	1100 Sq. Ft.	
Garage/Carport	Sq. Ft.	Sq. Ft.	Sq. Ft.	Sq. Ft.	
Total Floor Area	Sq. Ft.	Sq. Ft.	3658 sq. Ft	3658 Sq. FL	
Accessory Buildings	Sq Fi	Sq. Ft.	Sq. Ft.	Sq. Ft.	
Basement Area Excluded	() Sa. Ft.	() Sq. Ft.	(391) Sa. Ft.	891) Sa. Ft.	
TOTAL Building Area	Sq. Ft.	Sq. Ft.	3267 Sq. Ft.	3267 Sq. Ft.	

GROSS FLOOR AREA—Gross Floor Alex square footage of floor area bounded by the exterior faces of a

The gross floor area of a single-family dwelling includes ISLAND

a. The main building, including but 6M Imped to all accessory buildings.

DEVELOPMENT SERVICE GROUP

accessory buildings.

- b. All garages and covered parking areas, and detached accessory buildings with a gross floor area over 120 square
- c. That portion of a basement which projects above existing grade as defined and calculated in Appendix B of this development code.

Exterior decks and below existing grade areas are excluded. The amount of living space, garages and other accessory buildings on a single family lot is limited to 45% of the net lot area. Please refer to Pages 4 and 5 for details.

GROSS FLOOR AREA

Net Lot Area

34 409 Sq. Ft.

Net Lot Area Gross = Lot area minus ingress/egress easement

Net Lot Area x 45% equals

3267 So FL Allowed Gross Floor Area Proposed Gross Floor Area Sq. FL Procosed % of Lot Area

BUILDING HEIGHT - All building height measurements must be taken from existing grade. Existing grade refers to ground surface as it exists at the proposed building perimeter before grading or other alterations take place.

The Average Building Elevation (ABE) is a calculated reference elevation from which the allowable building height is measured. It is a weighted-average of the mid-point elevations of the building's wall segments and is established by the following formula:

> (Mid-point elevation of individual wall segment) x (Length of wall segment) (Total length of wall segments)

Single family new construction and additions are limited to a maximum height of 30 ft. above the ABE. The height is measured to the top of the structure. On the downtrill side of a sloping lot, the building may extend to a height of 35 feet measured from existing grade to the top of the exterior wall facade supporting the roof framing, rafters, trusses, etc.: provided, the mai ridge does not exceed 30 feet in height above the average building elevation.

A topographic survey is required at permit application when the proposed building height is within 2 ft. of the allowable building height. The survey must include a statement that attests the average contour elevation within the vicinity of the building footprint to be accurate within 6 inches vertically and horizontally from actual elevations.

BUILDING HEIGHT

Average Building Elevation (ABE) calculations located on sheet #

183.1 7.13.7

Allowable Building Height (ABE + 30 ft.): Proposed Building Height (fL):

Benchmark elevation (fil.)

Describe Benchmark location (must be undisturbed throughout project): 121 CB 175.5

Sloping lot (Downhill side) - maximum height of top exterior wall facade above lowest existing grade (35-ft. max.)

ABE and allowable building neight shown on SECTION elevations-plan sheet #: 10

Topo-survey accuracy attested on plan SHEET SULVEY

(Note-survey must attest to accuracy when proposed building height is within 2 ft. of the allowable building

Please see page 5 for more information about calculating Average Building Elevation (ABE):

not be disturbed during development activity and is used to verify final dulition beans

. *	

AVERAGE BUILDING ELEVATION

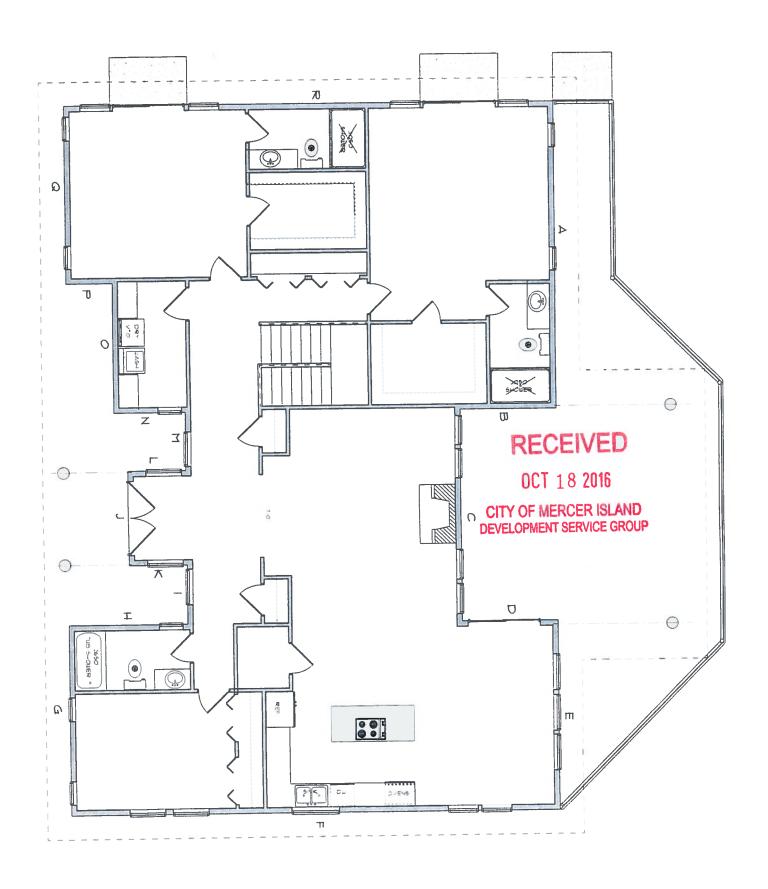
ABE

	WALL SEGMENT LENGTH	MIDPOINT ELEVA	TION
A	11	188.1	2069.1
В	6	188.2	1129.2
C	19	189	3591
D	26.5	189	5008.5
E	15	185.5	2782.5
F	15	181.9	2728.5
G	33	179	5907
H	42	178	7476
1	18	186.5	3357
J	6	187.5	1125
SUM	191.5		35173.8

35173.8

183.6752

191.5 **RECEIVED** OCT 18 2016 D CITY OF MERCER ISLAND DEVELOPMENT SERVICE GROUP SHIPTY DECK



ABE CALCLATION /2

,			

	length	elevation	total
Α	26	186	4836
В	8	181.5	1452
C	18	181.2	3261.6
D	8	178.25	1426
Ε	16	176.3	2820.8
F	41	176.5	7236.5
G	16	184	2944
Н	10	184.6	1846
†	5	184	920
J	5	185	925
K	8	185.5	1484
L	5	186	930
M	5	186.5	932.5
N	6	187	1122
0	11	188	2068
Р	4	187	748
Q	15	189.6	2844
R	41	189.8	7781.8
S	248		45578.2

ABE = 183.7831

RECEIVED

UUT 8

CITY OF MERCER ISLAND DEVELOPMENT SERVICE GROUP

RECEIVED

OCT 18 2016

CITY OF MERCER ISLAND DEVELOPMENT SERVICE GROUP

 7			
			1 1 2 m m