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

JUN 10 2019 CITY OF MERCER ISLAND **DEVELOPMENT SERVICE GROU**

SITE DEVELOPMENT INFORMATION

Worksheet for single family residential development

PROJECT INFORM						
Permit Number:		Parcel Number:	1224049090			
Site Address:	2465 84th Ave SE, Mercer Island WA 98040	Phone Number:	206 623-5600			
Owner Name:	Kyle Griffith	Date:	06/03/2019			
Signature & phor	ne number of Individual who comp	leted this worksheet:				
Larz Hitchcoc	k [206. 324-4800				
	Signature		Phone Number			_
GENERAL INFOR	MATION					
	es be removed as a result of this d with diameter of greater than or e	•	Yes		No	
Do you have an A	Accessory Dwelling Unit?	New ADU	Existing ADU		No	
Will you be addi	ng air conditioning to the proposed	development?	Yes		No	
	et and is not a substitute for the Mo ty Code. The City may require additi	•	_			
LOT SLOPE					-	, J. J.
piece of land cal	Mercer Island City Code, slope is a culated by subtracting the lowest eliting number by the shortest horizolied by 100.	elevation of the property i	from the highes	t elev	ation	, and
LOT SLOPE CALC	ULATIONS					
Highest Elevation		71.91			Feet	
Lowest Elevation		64.35			Feet	
Elevation Differe	ence:	7.56			Feet	
Horizontal Dista	nce Between High and Low Points:	102.5'			Feet	
Lot Slope*		7.37			%	
*Int	slone is the elevation difference div	ided by horizontal distance	e multiplied by	100		

LOT COVERAGE

For single family residential development, "lot coverage" is the area of a lot that may be covered by a combination of the buildings and vehicular driving surfaces. The maximum lot coverage for a specific lot is based upon the lots slope (see above). The area of the lot that <u>cannot</u> be used for lot coverage is "required landscaping area"; the landscaping area is typically improved with either hardscape (see below) or softscape. *Please note:* Lot coverage is not the same as impervious surface calculations used for drainage review.

Lot Slope	Maximum Lot Coverage (House, driving surfaces, and accessory buildings)	Required Landscaping Area	
Less than 15%	40%	60%	
15% to less than 30%	35%	65%	
30% to 50%	30%	70%	
Greater than 50% slope	20%	80%	

LOT COVERAGE CALCULATIONS

A.	Allowed Lot Coverage	RECEIVED	40	% of Lot
В.	Allowed Lot Coverage Area	VECEIVED	3,869	Square Feet
C.	Gross Lot Area	JUN 10 2019	10,762.5	Square Feet
D.	Net Lot Area	JOM 10 5019	9,672.5	Square Feet
E.	Main Structure Roof Area CITY	OF MERCER ISLAND	3,266	Square Feet
F.	Accessory Building Roof Area VELO	OPMENT SERVICE GROUP	0	Square Feet
G.	Vehicular Use (driveway, access e	asements, parking)	1,803	Square Feet
H.	Total Existing Lot Coverage Area		3,073	Square Feet
1.	(Total Lot Coverage Area Remove	d)	0	Square Feet
J.	Total New Lot Coverage Area		100	Square Feet
K.	Total Project Lot Coverage Area =	: (H-I) + J	3,173	Square Feet
L.	Proposed adjustment for single st	tory	0	Square Feet
M.	Proposed adjustment for flag lot		0	Square Feet
N.	Proposed Lot Coverage = (K/D)x1	00	33	% of Lot

HARDSCAPE

For single family residential development, hardscape is the solid, hard, elements or structures that are incorporated into landscaping. The hardscape includes, but is not limited to, structures, paved areas, stairs, walkways, decks, patios, and similar constructed elements. The hardscape within the landscaping area consists of materials such as wood, stone, concrete, gravel, permeable pavements or pavers, and similar materials. Hardscape does not include solid, hard elements or structures that are covered by a minimum of two feet of soil intended for softscape (for example, a septic tank covered with at least two feet of soil and planted shrubs is not hardscape). The hardscape does not include driving surfaces or buildings.

Up to 9% of the net lot area may consist of hardscape areas. In addition, unused lot coverage may also be improved with hardscape.

What is the total square footage of all hardscape on property?	823	Square Feet
What is the total square footage of all decks on property?	414	Square Feet

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ALLOWED ADJUSTMENTS

CITY OF MERCER ISLAND

A one-time reduction in the required landscaping area and an increase in the allowed maximum lot coverage is allowed if:

- A. The total reduction in required landscaping area shall not exceed 5%, and the total increase in maximum lot coverage shall not exceed 5%; and
- B. The reduction in required landscaping area is associated with:
 - 1. A development proposal that will result in a single-story dwelling with wheelchair accessible entry, and may also include a single-story accessory building; or
 - 2. A development proposal on a flag lot that, after optimizing driveway routing and minimizing driveway width, requires a driveway that is more than the 25% of the allowed lot coverage. The allowed reduction in the required landscaping area and increase in the maximum lot coverage shall not exceed 5% or the area of the driveway in excess of 25% of the lot coverage, whichever is less.

For example, a development proposal with a driveway that occupies 27% of the allowed lot coverage, may increase the total lot coverage by 2%

C. A recorded notice on title, covenant, easement, or other documentation in a form approved by the city, shall be required. The notice on title or other documentation shall describe the basis for the reduced landscaping area and increase in lot coverage.

Does this	project	include a	proposed	adjustmei	ıt?
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Yes [] No	
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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 below.

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

'es	No	
E3	 NU	

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 5.

BUILDING AREA CALCULATIONS

Building Area	Frieting	\rea	Remove	d Area	New/Add	ition Area	Total
ODDEI FIODI	Existing S	g. Ft. 👩	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
IVIAIN FIOOT	Remain	g. Ft. 🗓	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Gross Basement Ar INO	Change	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Garage/ Carport	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Total Floor Area	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Accessory Buildings	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Basement Area Excluded	s s	q. Ft. 🗓	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
150% GFA Modifier*	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
200% GFA Modifier*	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
Staircase GFA Modifier*	S	q. Ft. 🔟	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.
TOTAL Building Area	S	q. Ft.	0	Sq. Ft.	0	Sq. Ft.	Sq. Ft.

^{*}Enter the actual room area

GROSS FLOOR AREA (GFA)

For single family residential development, GFA is the total square footage of floor area, bounded by the exterior faces of the building(s). The GFA includes the floor area of the main building, accessory buildings, garages, attached roofed decks on the second or third story of a single family home, stair cases, etc. The GFA does not include second- or third-story uncovered decks or uncovered rooftop decks.

Allowed GFA

- A. R-8.4: 5,000 square feet or 40% of the lot area, whichever is less.
- B. R-9.6: 8,000 square feet or 40% of the lot area, whichever is less.
- C. R-12: 10,000 square feet or 40% of the lot area, whichever is less.
- D. R-15: 12,000 square feet or 40% of the lot area, whichever is less.
- E. All zones: Lots with a lot area of 7,500 square feet or less, the lesser of 3,000 square feet or 45% of the lot area.
- F. All zones: If an accessory dwelling unit is proposed, the 40% allowed GFA may be increased by the lesser of 5 percentile points, or the floor area of the accessory dwelling unit. Provided, this allowance shall not result in a GFA of more than 4,500 square feet or 45% of the lot area, whichever is less.

GFA Modifiers *

- A. The GFA calculation for a floor with a ceiling height of 12 to 16 feet, is 150% of the area of the floor.
- B. The GFA calculation for a floor with a ceiling height of more than 16 feet, is 200% of the area of the floor.
- C. The GFA calculation for a stair case shall be counted as a single floor for the first two stories accessed by the stair case. For each additional story above two stories, the stair case shall count as a single floor area.

GROSS FLOOR AREA CALCULATIONS

A.	Lot Area	10,762.5	_ Square Feet
B.	Allowed Gross Floor Area (refer to "Allowed GFA")	4,305	Square Feet
C.	Proposed Gross Floor Area	Existing No Change	Square Feet

BUILDING HEIGHT

All building height measurements must be taken from existing grade or finished grade, whichever is lower. Existing grade refers to ground surface as it exists at the proposed building perimeter before grading or other alterations take place. Finished grade refers to the ground surface as it exists at the building perimeter after grading or other alterations take place.

Single family new construction and additions are limited to a maximum height of 30 ft. above the Average Building Elevation (ABE) – see section on next pages. The height is measured to the top of the structure. On the downhill side of a sloping lot, the wall façade height is also limited to a height of 30 feet measured from existing or finished grade (whichever is lower) to the top of the exterior wall facade supporting the roof framing, rafters, trusses, etc.

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.

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^{*}Floor plans shall identify rooms with a ceiling height of more than 12 feet and rooms with a ceiling height of more than 16 feet.

BUILDING HEIGHT CALCULATIONS

- A. Average Building Elevation (ABE) calculations located on sheet #:
- B. Allowable Building Height (ABE + 30 ft.)
- C. Proposed Building Height
- D. Benchmark Elevation*
- E. Describe Benchmark Location (must be undisturbed throughout project)
- F. Sloping lot (Downhill side)- maximum height of top of exterior wall façade above lowest existing grade (30-ft max)
- G. ABE and Allowable Building Height Shown on elevations plan sheet #
- H. Topo-survey Accuracy Attested on Plan Sheet #

Note: survey must attest to accuracy when proposed building height is within 2 feet of the allowable building height. Please see page 7 for more information on calculating Average Building Elevation (ABE)

*The benchmark elevation is a fixed elevation point on or off site that will not be disturbed during development activity and is used to verify the final building height.

BASEMENT FLOOR AREA CALCULATION

The Mercer Island Development Code allows for the portion of the basement floor area which is below grade to be excluded from the Gross Floor Area. That portion of the basement which will be excluded is calculated as shown:

Portion of Excluded Basement Floor Area = Total Basement Area x

Σ (Wall Segment Coverage x Wall Segment Length)

Total of all Wall Segment lengths

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All Existing

To Remain

No Change

Feet

Feet

Feet

Feet

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Where the terms are defined as follows:

Total Basement Area:

The total amount of all basement floor area.

Wall Segment

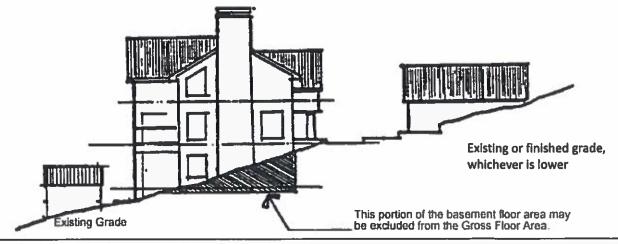
The portion of an exterior wall below existing or finished grade, whichever is lower.

Coverage:

It is expressed as a percentage. Refer to example below.

Wall Segment Length:

The horizontal length of each exterior wall in feet.



EXAMPLE OF BASEMENT FLOOR AREA CALCULATION

This example illustrates how a portion of the basement floor area may be excluded from the Gross Floor Area. In order to complete this example, the following information is needed:

- a. A topographic map of the existing (e) grades and showing proposed finished (f) grades.
- Building plans showing dimensions of all exterior wall segments and floor areas.
- Building elevations showing the location of existing and finished grades in relation to basement level.