## Residential Density Worksheet

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This worksheet will assist you in applying specific portions of the zoning code related to allowable density and will be used to determine if a proposal meets the density provisions of the King County Zoning Code (Title 21A). It is required for all residential development proposals, including but not limited to subdivisions, short subdivisions, multi-family apartments, townhomes, and mixed-use developments.

Pre-application conferences are required prior to submittal of a subdivision or short subdivision and may be useful for other types of projects. These conferences help to clarify issues and answer questions. To find out if a pre-application conference is needed for your proposal and how a pre-application conference can be arranged call 206-296-6600.

DATE: June 14, 2019

| NAME OF DEVELOPMENT: Gunshy Manor | FILE NO. PLAT18-0007 |
| :--- | :--- | :--- |
| COMPREHENSIVE PLAN LAND USE DESIGNATION: $\frac{\text { Rural }}{\text { RA-5-P }}$ |  |

If more than one Comprehensive Plan Land Use designation or zone classification exists on the property or site, the site plan must show the boundary between the zones and the area within each. In such cases, the transferring of density across zones on the site may be permitted subject to the provisions of KCC 21A.12.200.

Please complete only the applicable portions of the form.

## I. Site Area in Acres (KCC 21A.06.1172 and 21A.12.080):

a. Determine the total horizontal site area (in square feet) of the project site.
b. Divide the total site area by 43,560 to determine the site area in acres.

5,081,274
Site area in square feet $/ 43,560=\frac{116.65}{\text { Site area in acres }}$

When calculating the site area for parcels in the RA Zone, if the site area results in a fraction of an acre, the following shall apply: Fractions of .50 or above shall be rounded up to the next whole number and fractions below .50 shall be rounded down. Example: If the site area in acres is 19.5 acres the site area can be rounded up to 20 acres. No further rounding is allowed. (See KCC 21A.12.080)

## II. Base Density (KCC 21A.12.030-. 040 tables):

The base density is determined by the zone designation(s) for the lot.
0.2 DU / AC

Base density (dwelling units/acre) for the zone

## III. Allowable Dwelling Units, Floor Area and Rounding (KCC 21A.12.070):

The base number of dwelling units is calculated by multiplying the site area by the base density in dwelling units per acre (from KCC 21A.12.030-. 040 tables). If proposing mixed use development, also see KCC 21A.14.130.
= 23 allowable dwelling units

The allowed floor area, which excludes structured or underground parking areas and areas housing mechanical equipment, is calculated by multiplying the site area by the floor to lot area ratio (from KCC 21A.12.040).
$\qquad$ site area in square feet (from Section I)

X $\qquad$ floor to lot area ratio (KCC 21A.12.040) = $\qquad$ allowed floor area in square feet

When calculations result in a fraction, the fraction is rounded to the nearest whole number as follows:
a. Fractions of .50 or above shall be rounded up; and
b. Fractions below .50 shall be rounded down.

For RA zoned parcels, no rounding is allowed when calculating the allowable number of dwelling units. For example, if the calculation of the number of dwelling units equaled 2.75, the result would be 2 dwelling units. Rounding up to 3 is not allowed. (See KCC 21A.12.070 E.)

## IV. Required On-site Recreation Space (KCC 21A.14.180): NOT APPLICABLE

A proposal is required to provide recreation space when more than four dwelling units are proposed in any residential development in the UR and R-4 through R-48 zones, stand-alone townhouses in the NB zone on property designated Commercial Outside of Center in the urban area, or within any mixed use development of more than 4 units. When recreation space is required, the total recreation space area must be computed by multiplying the recreation space requirement per unit type by the proposed number of such dwelling units (KCC 21A.14.180). NOTE: King County has the discretion to accept a fee in lieu of all or a portion of the required recreation space per KCC 21A.14.185.

Residential subdivisions, townhouses, and apartments developed at a density greater than eight units per acre, and mixed use proposals must provide recreational space as follows:

90 square feet $\mathbf{X}$ $\qquad$ proposed number of studio and one bedroom units proposed number of single family dwellings, and two

170 square feet $\mathbf{X}$ $\qquad$ or more bedroom units

Recreation space requirement
$+$
= $\qquad$
Residential subdivisions, townhouses, and apartments developed at a density less than eight units per acre must provide recreational space as follows:

390 square feet $\mathbf{X}$ $\qquad$ proposed number of units
$=$ $\qquad$
Mobile home parks shall provide recreational space as follows:
260 square feet $\mathbf{X}$ $\qquad$ proposed number of units
$=$ $\qquad$

## V. Net Buildable Area (KCC 21A.06.797): NOT APPLICABLE

This section is used to determine the site area to use when calculating minimum density (in Section VI) and must be completed if the site is located within the R-4 through R-48 zones and designated Urban by the King County Comprehensive Plan. The net buildable area is the site area (from Section I) less the following areas:

|  | areas within a project site which are required to be dedicated for public rights-of-way in excess of sixty feet (60') of width |
| :---: | :---: |
| + | critical areas and their buffers, to the extent they are required by KCC 21A. 24 to remain |
|  | undeveloped |
| + | areas required for above ground stormwater control facilities including, but not limited to, |
|  | retention/detention ponds, biofiltration swales and setbacks from such ponds and swales |
| + | areas required to be dedicated or reserved as on-site recreation areas (see |
|  | Section IV) |
| + | regional utility corridors, and |
| + | other areas, excluding setbacks, required by King County to remain undeveloped |
| = | Total reductions |

Calculation:
site area in square feet (from Section I)
-
Total reductions
net buildable area in square feet NOTE: convert site area in square feet to acres by dividing by 43,560
$=$ $\qquad$ net buildable area in acres

## VI. Minimum Urban Residential Density (KCC 21A.12.060): NOT APPLICABLE

The minimum density requirement applies only to the R-4 through R-48 zones in areas designated Urban by the King County Comprehensive Plan. Minimum density is determined by multiplying the base density in dwelling units per acre (from Section II) by the net buildable area of the site in acres (from Section V) and then multiplying the resulting product by the minimum density percentage from the KCC 21A. 12.030 table. The minimum density requirements may be phased or waived in certain cases (KCC 21A.12.060). Minimum density does not apply to properties zoned R-4 in the rural town of Fall City (KCC 21A.12.030 B.23).

Calculation:
base density in du/ac (from Section II) $\mathbf{X}$ $\qquad$ net buildable area in acres (from Section V)
$\qquad$ X minimum density \% set forth in KCC 21A. 12.030 or as adjusted in Section VII. minimum dwelling units required.

The minimum density requirements may be waived by King County if the applicant can demonstrate one or more of the following:

1. The proposed layout of the lots in a subdivision or the buildings in a multiple dwelling development will not preclude
future residential development consistent with the minimum density of the zone;
2. The non-sensitive area of the parcel is of a size or configuration that results in lots that cannot meet the minimum dimensional requirements of the zone;
3. In the R-12 through R-48 zones, the area of the parcel required to accommodate storm water facilities exceeds ten percent of the area of the site;
4. The site contains a national, state or county historic landmark.

Waiver requests must be accompanied by a written justification, along with a graphic representation of how one or more criteria above are met.

## VII. Minimum Density Adjustments For Moderate Slopes (KCC 21A.12.087): NOT APPL Weld dater ${ }^{10 / 28 / 2018}$

Residential developments in the R-4, R-6 and R-8 zones may modify the minimum density factor in KCC 21 A .12 .030 based on the weighted average slope of the net buildable area of the site (from Section V ). To determine the weighted average slope, a topographic survey is required to calculate the net buildable area(s) within each of the following slope increments and then multiplying the number of square feet in each slope increment by the median slope value of each slope increment as follows:



Calculation:

total square feet adjusted for slope divided by $\qquad$ total square feet in net buildable area weighted average slope of net buildable area \% (Note: multiply by 100 to convert to percent - round up to nearest whole percent)

Use the table below to determine the minimum density factor. This density is substituted for the minimum density factor in KCC 21A. 12.030 table when calculating the minimum density as shown in Section VI of this worksheet.

| Weighted Average Slope of Net <br> Buildable Area(s) of Site: | Minimum Density Factor: |
| :---: | :---: |
| $0 \%$ - less than $5 \%$ | $85 \%$ |
| $5 \%$ - less than $15 \%$ | 83\%, less $1.5 \%$ for each $1 \%$ of <br> average slope in excess of $5 \%$ |
| $15 \%$ - less than $40 \%$ | $66 \%$, less $2.0 \%$ for each $1 \%$ of <br> average slope in excess of $15 \%$ |

## EXAMPLE CALCULATION FOR MINIMUM DENSITY ADJUSTMENTS FOR MODERATE SLOPES:



3,250 total square feet adjusted for slope divided by
$\qquad$ weighted average slope of net buildable area

Using the table above, an $11 \%$ weighted average slope of net buildable area falls within the $5 \%$ - less than $15 \%$ range which has a minimum density factor of $83 \%$, less $1.5 \%$ for each $1 \%$ of average slope in excess of $5 \%$. Since $11 \%$ is $6 \%$ above $5 \%$, multiply 6 times 1.5 which would equal $9 \%$. Subtract $9 \%$ from $83 \%$ for an adjusted minimum density factor of $74 \%$. This replaces the minimum density factor in KCC 21A. 12.030 table.

## VIII. Maximum Dwelling Units Allowed (KCC 21A.12.030-.040): NOT APPLICABLE

This section should be completed only if the proposal seeks to exceed the base density utilizing either residential density incentives (RDI) (KCC 21A.34), transfer of development rights (TDR) (KCC 21A.37), or a combination thereof. The maximum density allowed through use of RDI and/or TDR is 150 percent of the base density (from Section II) of the underlying zoning or 200 percent of the base density for proposals with 100 percent affordable units. Maximum density is calculated by adding the calculated RDI units and/or TDR units to the base units calculated in Section III of this worksheet.
$\qquad$ base density in dwelling units per acre (from Section II) X 150\% = $\qquad$ maximum density maximum density in dwelling units per acre $\mathbf{X}$ $\qquad$ site area in acres = $\qquad$ maximum dwelling units allowed utilizing RDI (KCC 21A.34) and/or TDR (KCC 21A.37), when less than $100 \%$ of proposed units are reserved as affordable units
$\qquad$ base density in dwelling units per acre (from Section II) X 200\% = $\qquad$ maximum density maximum density in dwelling units per acre $\mathbf{X}$ $\qquad$ site area in acres = $\qquad$
maximum dwelling units allowed utilizing density incentives with 100 percent affordable units(KCC 21A.34)

## Calculation:

$\qquad$ base allowable dwelling units calculated in Section III
$+\quad$ bonus units authorized by KCC 21A. 34 transfer units authorized by KCC 21A. 37 total dwelling units (cannot exceed maximums calculated above)

## IX. Minimum Lot Area for Construction (KCC 21A.12.100):

Except as provided for non-conformances in KCC 21A.32:
A. In the UR and R zones, no construction shall be permitted on a lot that contains an area of less than 2,500 square feet or that does not comply with the applicable minimum lot width, except for townhouse developments, zero-lotline subdivisions, or lots created prior to February 2, 1995, in a recorded subdivision or short subdivision which complied with applicable laws, and;
B. In the A, F, or RA Zones:

1. Construction shall not be permitted on a lot containing less than 5,000 square feet; and
2. Construction shall be limited to one dwelling unit and residential accessory uses for lots containing greater than 5,000 square feet, but less than 12,500 square feet. (KCC 21A.12.100)

## X. Lot Width (KCC 21A.12.050): NOTED

Lot widths shall be measured by scaling a circle of the applicable diameter within the boundaries of the lot as shown below, provided than an access easement shall not be included within the circle. (See KCC 21A.12.050).


Lot Width Measurement

