



SLOPE DENSITY FORMULA

The Slope Density Formula is applicable to lots with an average slope of 10% or greater. The formula is used to determine the minimum lot size required for proposed subdivisions (except SB9 Urban Lots Splits) as well as to determine the applicable zoning standards for existing lots.

The formula shall be calculated as follows (where S is the average slope percent expressed as a whole number):

Zoning District	Minimum Lot Size Determination
R-1-8	$\frac{43,560 \text{ square feet}}{5.45 - 0.089 S}$
R-1-20	$\frac{43,560 \text{ square feet}}{2.20 - 0.036 S}$
R-1-44	$\frac{43,560 \text{ square feet}}{1.00 - 0.016 S}$

Average Slope Calculations

The average slope shall be calculated using the following formula:

$$S = \text{Percent (\%)} \text{ Slope} = \frac{0.00229 I L}{A}$$

I = Interval of contours in feet (uniform vertical distance between successive contours),

L = Length of contours in feet (sum of individual contour lengths), and

A = Gross area in acres and fractions thereof in the parcel being considered.

The submittal to the City shall include a site plan showing the contours and elevations, the calculated formula, and shall be stamped and signed by a California registered civil engineer or surveyor.