

Calculating Slope

The slope of property is used when applying code requirements. It will also help you determine foundation wall heights, fill and grade quantities and other information for your property. Slope is defined in several ways (*degrees, rise/run, and percent*). Accurately determining the slope of your property is key to getting the proper information on any requirements that may or may not apply to your project.

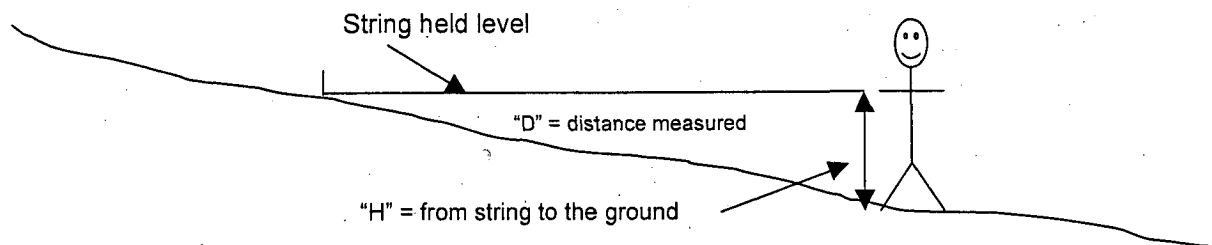
How to calculate the slope on your property.

First gather the items you will need:

- A tape measure: at least 50' if possible.
- Some string, stakes and a hammer.
- A string level
- A helper.

Measuring Slope.

- Find the uphill spot where any development will occur on the property.
- Drive a stake in the ground to mark this spot, and measure down hill, across the slope 50' to 100'.
- Place a second stake at that location.
- Tie the string to the first stake and stretch it to the second stake.
- Have your helper place the string level on the string somewhere near the center.
- You will need to tighten and raise the string until the string is level.
- While holding the string in that position, have your helper measure the distance between the string and the ground at the location of your second stake.



Calculating Slope.

Convert your dimensions (*H and D*) to the same dimension (*inches or feet*).

Calculate the slope using the following formula: $\frac{"H"}{"D"} \times 100 = \text{slope in percent}$.

Use the chart on the back of this form to convert your calculated slope into degrees or rise / run.



Calculating Slope

GRADE COMPARISON CHART

