

4.27 Steep Slope System

Revision: April 21, 2000

4.27.1 Description

A steep slope system is a trench system for slopes greater than 20%.

4.27.2 Approval Conditions

1. Steep slope systems may be considered where the slope at the site is greater than 20% but less than 46%.
2. Soil must be well-drained, with no evidence of saturation and of soil design group A or B without any evidence of textural change in the effective depth.
3. Except as listed in this section, all regulations applicable to a standard system will apply.

4.27.3 Construction

1. Parallel trenches must be separated by at least 8 feet of undisturbed soil.
2. If more than one trench is used, serial distribution will be required.
3. Trenches must be installed at a minimum depth of 30 inches below the natural soil surface on the downhill side of the trench and contain a minimum of 18 inches of drainrock and 12 inches of soil backfill or be constructed to gravelless trench specifications with a 30 inch minimum depth.
4. In consideration of safety and plumb trench sidewalls, hand excavation of trenches paralleling the contour of the land surface may be necessary. Figure 4-33 illustrates the relationship between the site's vertical drop and horizontal run.

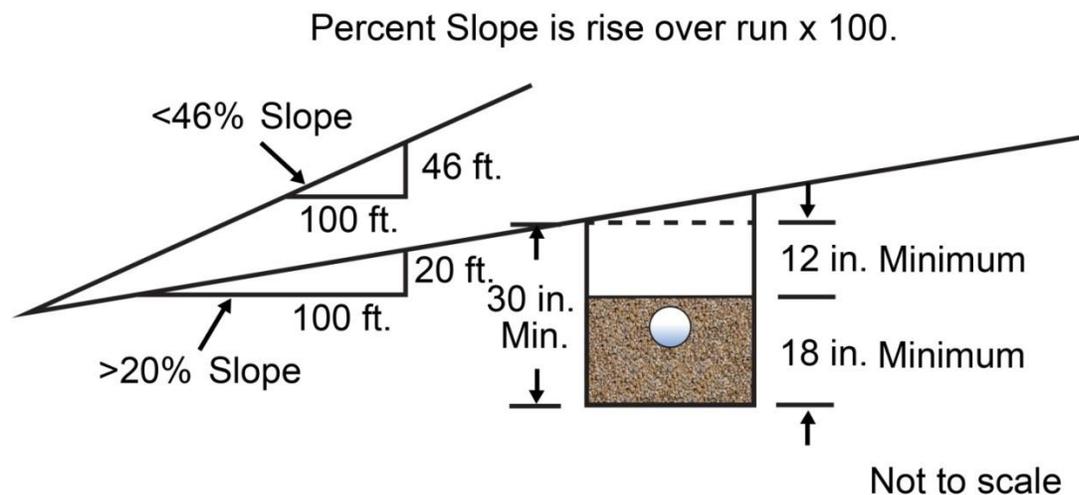


Figure 4-33. Illustration of steep slope rise over run.