Equation 4-15 shows the calculation for the absorption bed area.

 $\frac{\text{Design Flow (GPD)}}{\text{Soil Application Rate (GPD/_{ft^2})}}$

Equation 4-15. Effluent application area.

- 6. Slope of all sides must be 3 horizontal to 1 vertical (3:1) or flatter.
- 7. Sand fill area must be as long and narrow as practical, with plan view dimension G exceeding dimension F (Figure 4-30).
- 8. Slope correction factors as provided in Table 4-21 should be used to determine the downslope width of the medium sand fill for sloped sites.
- 9. Slope correction factors as provided in Table 4-22 should be used to determine the upslope width of the medium sand fill for sloped sites.

Table 4-21. Downslope correction factors for sloped sites.

Slope (%)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Correction Factor	1.03	1.06	1.10) 1.14	1.18	1.22	1.27	1.32	1.38	1.44	1.51	1.57	1.64	1.72	1.82	1.92	2.04	2.17	2.33	2.5
Table 4-22	. Ups	lope	corre	ectio	n fact	tors f	or sl	oped	sites	S.										
Table 4-22 Slope (%)	. Ups 1	slope 2	corre 3	ectio 4	n fact 5	tors f 6	or sl	oped 8	sites 9	s. 10	11	12	13	14	15	16	17	18	19	20

Figure 4-30 and Figure 4-31 can be used with Table 4-23 and Table 4-24 (sand mound design checklist) for flat and sloped sites.



Figure 4-30. Design illustrations for sand mound installation on flat and sloped sites (use with sand mound design checklist).

Controlled Document—Users are responsible for ensuring they work to the latest approved revision. Printed or electronically transmitted copies are uncontrolled.