

GLOBAL/COMPOUND STABILITY ANALYSIS (Using Bishop method and ROR = 0.0)

A horizontal seismic coefficient, K_h =half of 'A', equal to 0.040 has been applied.
 The seismic force is applied at the center of the sliding mass.

STATIC CONDITIONS:

For the specified search grid, the calculated minimum F_s is 1.433 *1.3 min*
 (it corresponds to a critical circle at $X_c = -3.95$, $Y_c = 37.89$ and $R = 38.10$ [ft] where $(x=0, y=0)$ is taken at the TOE or
 $X_c = 26.05$, $Y_c = 137.89$ and $R = 38.10$ [ft] when the terrain coordinate system is used as shown in the table below.)

SEISMIC CONDITIONS:

For the specified search grid, the calculated minimum F_s is 1.322 *1.1 min*
 (it corresponds to a critical circle at $X_c = -3.95$, $Y_c = 37.89$ and $R = 38.10$ [ft] where $(x=0, y=0)$ is taken at the TOE or
 $X_c = 26.05$, $Y_c = 137.89$ and $R = 38.10$ [ft] when the terrain coordinate system is used as shown in the table below.)

TERRAIN/WATER PROFILE

Point	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11
Soil layer #1:	$\gamma = 135.00$ [lb/ft ³]		$\phi = 34.0^\circ$		$c = 0.00$ [lb/ft ²]						
x [ft]	0.0	29.5	42.0	43.0	74.0	99.0	102.0	146.0	149.0	198.0	199.0
y [ft]	97.5	99.0	96.5	112.0	127.0	127.0	127.0	127.0	127.0	127.0	150.0

The following product(s) are not activated: