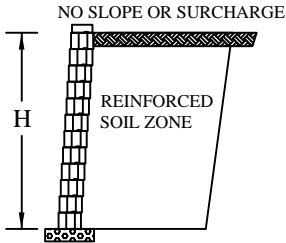
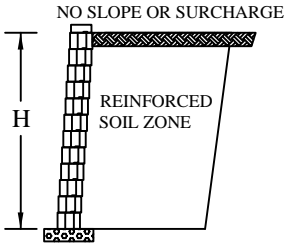
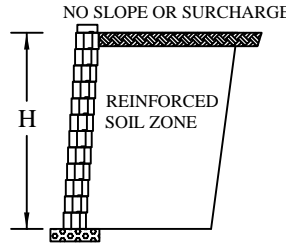
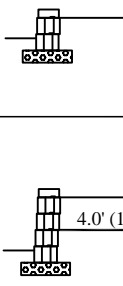
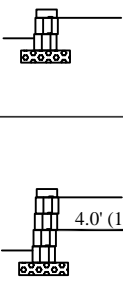

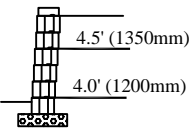
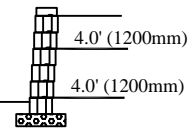
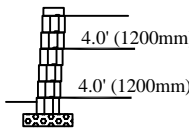
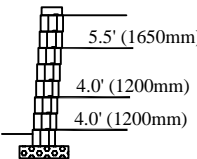
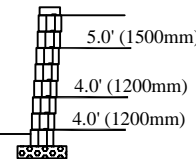
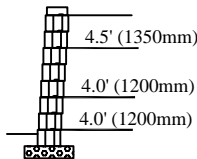
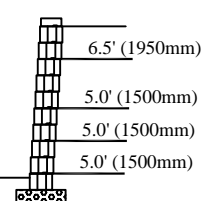
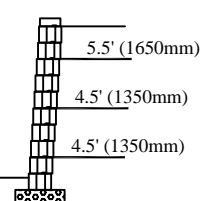
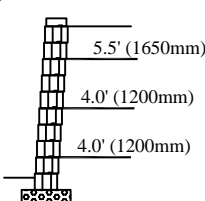
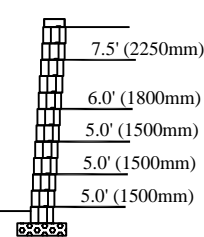
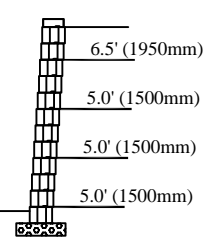


REINFORCEMENT ESTIMATING CHART

CLAY AND SILT SOIL		SILTY/CLAYEY SAND SOIL		CLEAN SAND AND GRAVEL SOIL	
H	$\phi = 26^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)	H	$\phi = 30^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)	H	$\phi = 34^\circ$ $\gamma = 120$ pcf (19 kN/cubic meter)
					
2 COURSES 1' 3" - 1' 4" (400mm)	NO REINFORCEMENT REQUIRED \leq 2 COURSES	2 COURSES 1' 3" - 1' 4" (400mm)	NO REINFORCEMENT REQUIRED \leq 2 COURSES	2 COURSES 1' 3" - 1' 4" (400mm)	NO REINFORCEMENT REQUIRED \leq 2 COURSES
4 COURSES 2' 6" - 2' 8" (800mm)		4 COURSES 2' 6" - 2' 8" (800mm)		4 COURSES 2' 6" - 2' 8" (800mm)	
6 COURSES 3' 9" - 4' 0" (1200mm)		6 COURSES 3' 9" - 4' 0" (1200mm)		6 COURSES 3' 9" - 4' 0" (1200mm)	
8 COURSES 5' 0" - 5' 4" (1600mm)		8 COURSES 5' 0" - 5' 4" (1600mm)		8 COURSES 5' 0" - 5' 4" (1600mm)	
10 COURSES 6' 3" - 6' 8" (2000mm)		10 COURSES 6' 3" - 6' 8" (2000mm)		10 COURSES 6' 3" - 6' 8" (2000mm)	
12 COURSES 7' 0" 6" - 8' 0" (2400mm)		12 COURSES 7' 0" 6" - 8' 0" (2400mm)		12 COURSES 7' 0" 6" - 8' 0" (2400mm)	