



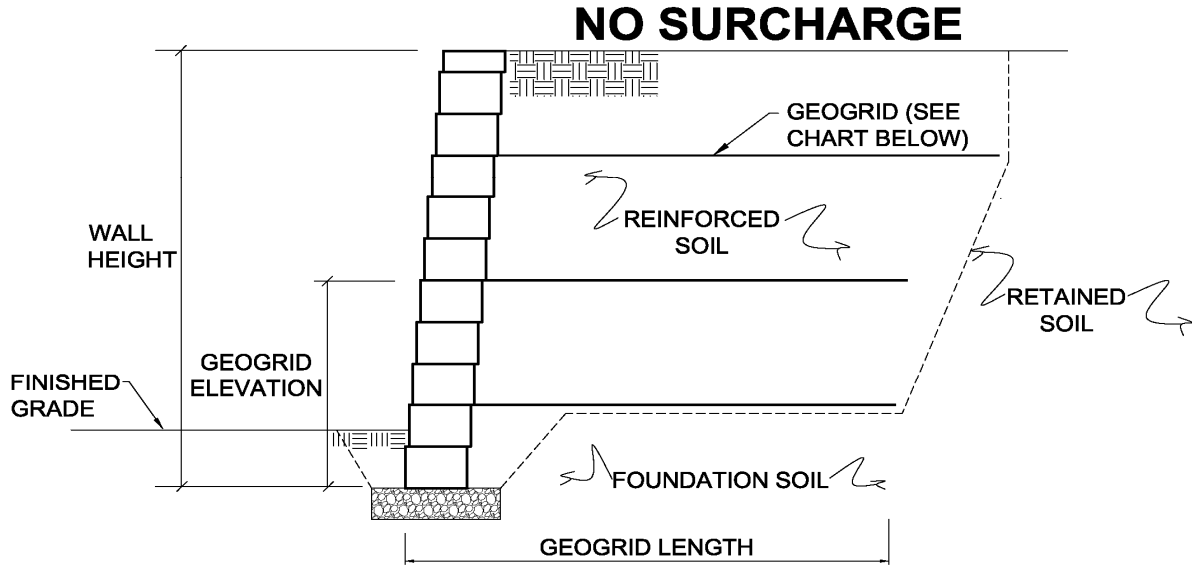
Retaining Wall Design Charts and Construction Details

By

Earth Reinforcement Technologies, LLC
437 Creekstone Ridge
Woodstock, Georgia 30188
Tel: 678.445.4022 • Fax: 866.558.3146
www.trinitywalls.com

FOR STAMPED FINAL DESIGNS BY A PROFESSIONAL ENGINEER CALL 678.445.4022.

TRINITY WALL SYSTEM - Design Charts



No Surcharge, $\gamma = 120$ PCF

$\Phi = 28^\circ$ Silt/Clayey Soils			$\Phi = 30^\circ$ Sandy Soils			$\Phi = 34^\circ$ Gravel Soils		
Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length
3.0'	1.34	4.0'	3.0'	Geogrid Not Required		3.0'	Geogrid Not Required	
4.3'	1.34	4.0'	4.3'	1.34	4.0'	4.3'	1.34	4.0'
	3.34	4.5'		3.34	4.5'		3.34	4.0'
5.7'	2.00	4.5'	5.7'	2.00	4.0'	5.7'	2.00	4.0'
	4.00	5.0'		4.00	5.0'		4.00	4.5'
7.0'	1.34	4.0'	7.0'	1.34	4.0'	7.0'	1.34	4.0'
	3.34	4.5'		3.34	4.5'		3.34	4.0'
	5.34	6.0'		5.34	5.5'		5.34	5.5'
8.3'	0.67	5.0'	8.3'	0.67	5.0'	8.3'	0.67	5.0'
	2.67	5.0'		2.67	5.0'		2.67	5.0'
	4.67	5.5'		4.67	5.0'		4.67	5.0'
	6.67	6.5'		6.67	6.5'		6.67	6.0'
9.7'	0.67	6.0'	9.7'	0.67	6.0'	9.7'	0.67	6.0'
	2.67	6.0'		2.67	6.0'		2.67	6.0'
	4.67	6.0'		4.67	6.0'		4.67	6.0'
	6.67	6.5'		6.67	6.5'		6.67	6.0'
	8.67	8.0'		8.67	7.5'		8.67	7.0'

The soils effective friction angle and unit weight as outlined above is assumed to exist in the reinforced, retained, and foundation zones.

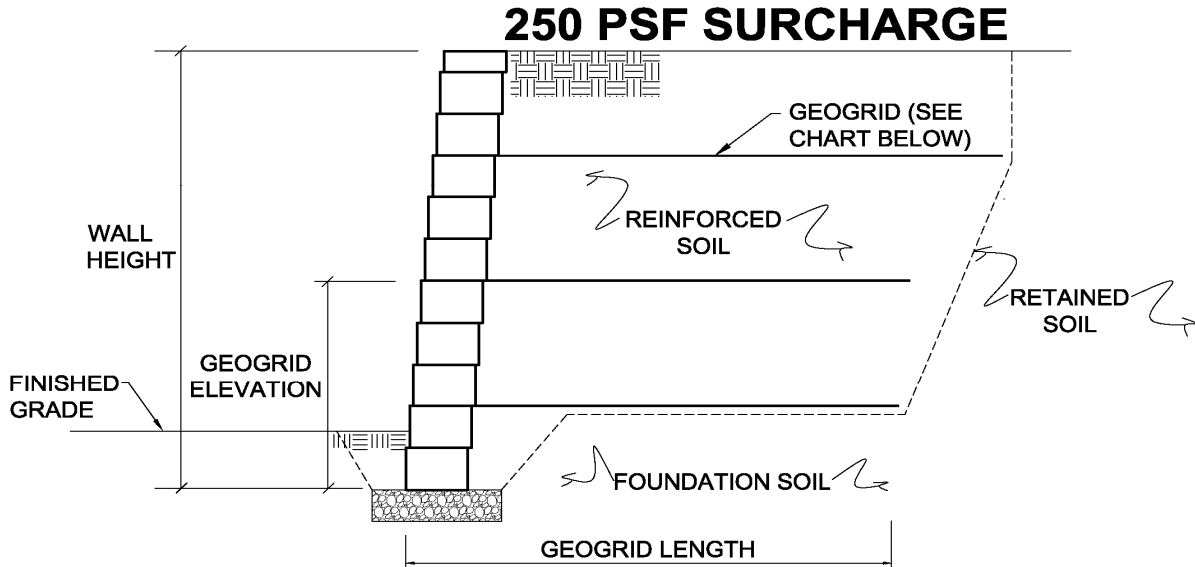
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TRINITY WALL SYSTEM - Design Charts



250 PSF Surcharge, $\gamma = 120$ PCF

$\Phi = 28^\circ$ Silt/Clayey Soils			$\Phi = 30^\circ$ Sandy Soils			$\Phi = 34^\circ$ Gravel Soils		
Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length
3.0'	1.34	5.5'	3.0'	1.34	5.0'	3.0'	1.34	4.0'
4.3'	1.34	4.0'	4.3'	1.34	4.0'	4.3'	1.34	4.0'
	3.34	7.0'		3.34	6.5'		3.34	5.5'
5.7'	2.00	5.0'	5.7'	2.00	4.5'	5.7'	2.00	4.0'
	4.00	6.5'		4.00	6.0'		4.00	5.0'
7.0'	1.34	4.0'	7.0'	1.34	4.0'	7.0'	1.34	4.0'
	3.34	5.0'		3.34	4.5'		3.34	4.0'
	5.34	7.5'		5.34	7.0'		5.34	6.0'
8.3'	0.67	6.5'	8.3'	0.67	5.5'	8.3'	0.67	5.0'
	2.67	6.5'		2.67	5.5'		2.67	5.0'
	4.67	6.5'		4.67	5.5'		4.67	5.0'
	6.67	8.5'		6.67	8.0'		6.67	6.5'
9.7'	0.67	7.0'	9.7'	0.67	6.5'	9.7'	0.67	6.0'
	2.67	7.0'		2.67	6.5'		2.67	6.0'
	4.67	7.0'		4.67	6.5'		4.67	6.0'
	6.67	7.5'		6.67	7.0'		6.67	6.0'
	8.67	10.5'		8.67	9.5'		8.67	8.5'

The soils effective friction angle and unit weight as outlined above is assumed to exist in the reinforced, retained, and foundation zones.

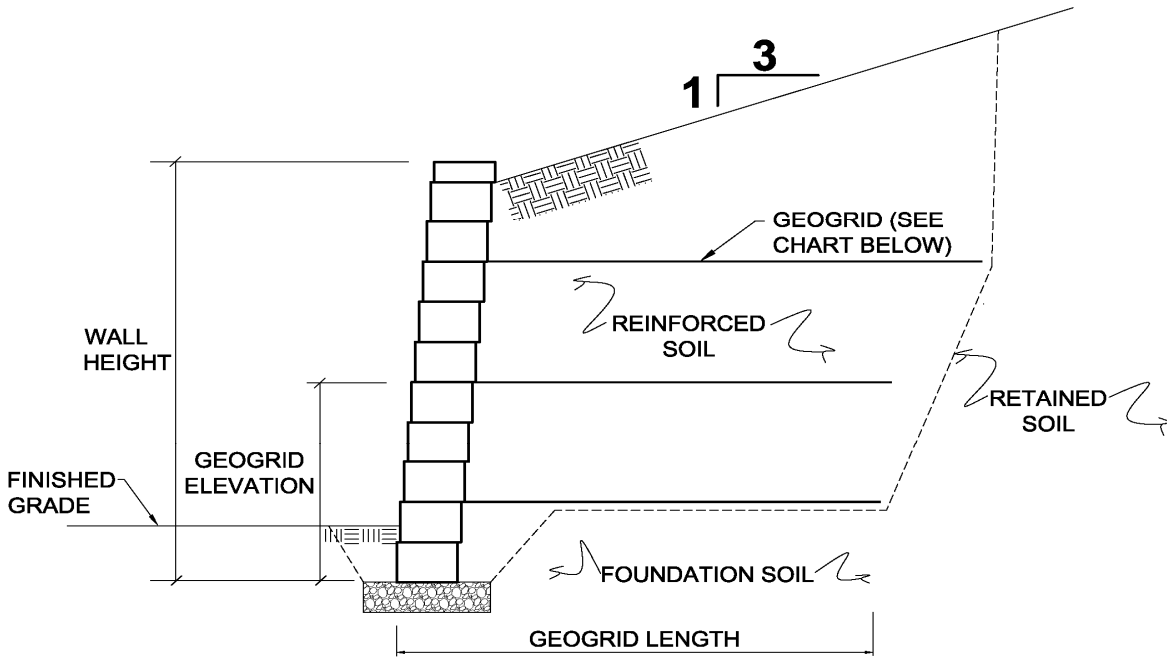
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TRINITY WALL SYSTEM - Design Charts



3:1 Surcharge, $\gamma = 120$ PCF

$\Phi = 28^\circ$ Silt/Clayey Soils			$\Phi = 30^\circ$ Sandy Soils			$\Phi = 34^\circ$ Gravel Soils		
Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length	Wall Height	Grid Elevation	Grid Length
3.0'	1.34	4.0'	3.0'	1.34	4.0'	3.0'	No Geogrid Required	
4.3'	1.34	4.0'	4.3'	1.34	4.0'	4.3'	1.34	4.0'
	3.34	5.0'		3.34	5.0'		3.34	4.5'
5.7'	2.00	5.0'	5.7'	2.00	4.5'	5.7'	2.00	4.0'
	4.00	5.5'		4.00	5.5'		4.00	5.0'
7.0'	1.34	5.5'	7.0'	1.34	4.0'	7.0'	1.34	4.0'
	3.34	5.5'		3.34	5.0'		3.34	4.5'
	5.34	7.0'		5.34	6.5'		5.34	6.0'
8.3'	0.67	8.0'	8.3'	0.67	7.0'	8.3'	0.67	5.0'
	2.67	8.0'		2.67	7.0'		2.67	5.0'
	4.67	8.0'		4.67	7.0'		4.67	5.5'
	6.67	8.0'		6.67	7.5'		6.67	7.0'
9.7'	0.67	9.0'	9.7'	0.67	7.5'	9.7'	0.67	6.0'
	2.67	9.0'		2.67	7.5'		2.67	6.0'
	4.67	9.0'		4.67	7.5'		4.67	6.0'
	6.67	9.0'		6.67	7.5'		6.67	7.0'
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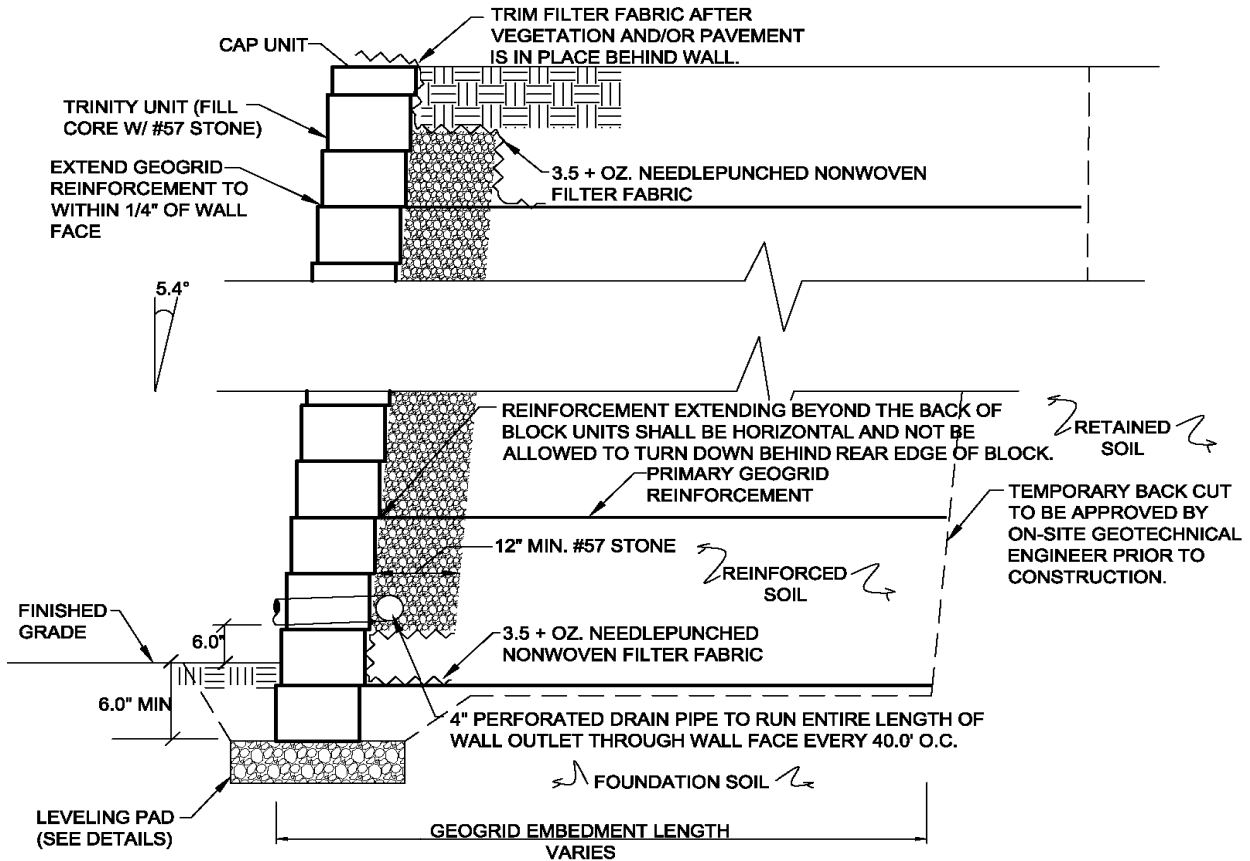


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TRINITY WALL SYSTEM - Construction Details (1 of 2)

NOTE: SOIL BERMS AND DRAINAGE SWALES SHALL BE CONSTRUCTED AS NECESSARY TO PREVENT SURFACE WATER FROM OVERTOPPING WALL FACE DURING AND AFTER CONSTRUCTION.



TYPICAL CROSS-SECTION NOT TO SCALE

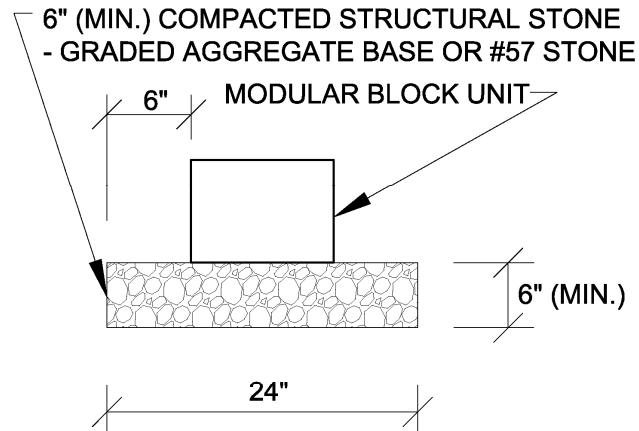
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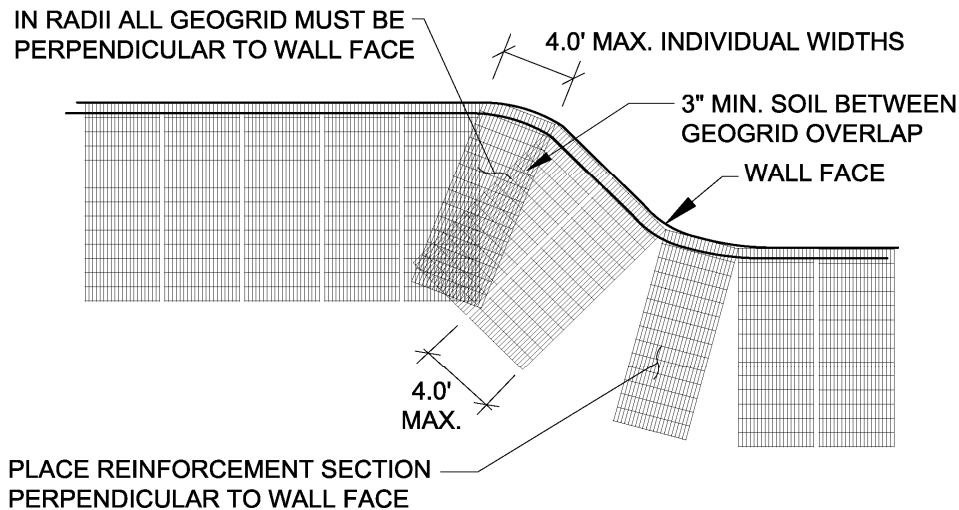
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TRINITY WALL SYSTEM - Construction Details (2 of 2)



LEVELING PAD CROSS-SECTION

NOT TO SCALE



PRIMARY GEOGRID PLACEMENT ON CURVES

NOT TO SCALE

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