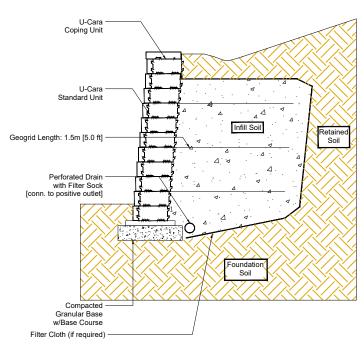
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### RETAINING WALL GEOGRID SECTION

## 1720mm (5.64ft) Site: 3H:1V Slope - Clays Infill: Granular



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Design	Specific	Geometric	Information

Retaining Wall System	U-Cara w/ Geogrid	Geogrid Type and Manufacturer	See Notes	
Maximum Height mm (in)	1720 (67)	Minimum Geogrid LTDS kN/m (lb/ft)	See Notes	
Maximum Slope Above Wall	1V:3H	Maximum Slope Below Wall	None	
Max. Surcharge Above Wall kPa (lb/sq.ft)	None	Depth of Embedment mm (in)	170 (7)	
Batter 5.5 °		Compacted Base Dimension mm (in)	656 x 150 (26 x 6)	

#### Design Specific Soil Information

	Soil Region					
	Infill	Retained	Foundation	Base	Drainage	
Description (by USCS)	GW Well graded, free draining Granular	CL Inorganic Clays Low Plasticity	CL Inorganic Clays Low Plasticity	GW Well graded, free draining Granular	see infill	
Effective Internal Friction Angle	35	28	28 <sup>°</sup>	39 <sup>°</sup>	NR	
Moist Unit Weight kN/cu.m (lb/cu.ft)	22 (140)	20 (127)	20 (127)	22 (140)	NR	
Effective Cohesion kPa (lb/sq.ft)	NR	NR	NR	NR	NR	
Soil Notes	Placed in 150mm (6") lifts and compacted to 95% SPD.	Undisturbed dense soil or well compacted Eng. fill.	Allowable bearing cap.must exceed 100kPa (2100 psf)	Crushed Gravel (free draining) compacted to 98% SPD.	Gravel infill must be well graded, angular, free drain w/max. 8% fines	

#### Notes:

1. This Preliminary Design was analyzed in accordance with the National Concrete Masonry Association Design Manual for Segmental Retaining Walls, Second Edition. All minimum required Factors of Safety have been met or exceeded given the Design Parameters noted on this Drawing. This is a Typical, Non-Site Specific Design and is to be used for Estimation and Feasibility purposes only.

2. No analysis of Global Stability, total or differential settlement, or seismic effects has been performed.

3. This Preliminary Design is only provided to illustrate the General Arrangement of the SRW Structure for Preliminary costing and feasibility purposes. This Drawing is not for Construction. A qualified Engineer, licensed in the applicable Province/State, must be retained to provide a Final Design prior to Construction.

4. Structures such as handrails, guardrails, fences, terraces, and site conditions such as High Water level, Drainage, and Soil Conditions, additional live and dead loads, etc, have significant effects on the Wall Design and have not been taken into account in this Typical Section. When accounted for in the Final Design, other conditions and elements may result in additional Design Measures (geogrid, drainage, etc) and Cost.

5. For Geogrid Reinforced Structures, a minimum Long Term Design Strength of 1800 lb/lin.ft was assumed.

Contact your manufacturer for a list of approved Geogrid Reinforcements.

