WALL REINFORCEMENT MATRIX - CASE C(1)

MAX. WALL Height (ft)	BASE DEPTH (ft.)	NO. GRID LAYERS	GRID LENGTH (ft.)*	GEOGRID PLACEMENT h (ft.) above base elevation					* NOTE
ricigite (re)	DEI III (IC.)	LATERO	LENGTH (IC.)	h1	h2	h3	h4	h5	
4'-0"	0'-8"	2	4'-6"	1'-4"	3'-4"	_	_	_	LAYER LENGTH MAY DECREASE 6" PER SUCCEEDING LAYER FROM TOP TO BOTTOM.
5'-4"	0'-8"	2	5'-6"	1'-4"	4'-0"		—		
6'-0"	0'-8"	3	6'-4"	0'-8"	2'-8"	5'-0"			
8'-0"	0'-8"	4	7'-6"	0'-8"	2'-8"	4'-4"	7'-0"		

(1) CASE C: 2 OR 3:1 (H:V) MAX. BACKSLOPE SURCHARGE, FOR SITE SOILS WITH ANGLE Ø>27° AND SOIL SATURATED UNIT WEIGHT OF LESS THAN 125 PCF. TOPSOIL 1 CAP UNITS ADHERED -LINE OF EXCAVATION TO PREVIOUS COURSE EMBED GEOGRID MIN. 9" INTO JOINT **INTEGRAL DRAIN GROOVES** MAINTAIN GEOGRID TAUT W/ STAKES DURING BACKFILL 8" MIN. GRAVEL **DRAIN FILL** GEOGRID REINFORCEMENT SOLID TERRASTOP™ SYSTEM 2 UNITS GRID LENGTH COMPACTED REINFORCED BACKFILL PER SPEC'S. **INTEGRAL FOOTERS** (Walls above 60") SLOPE PERFORATED DRAIN

TO DAYLIGHT

SEE DWG 4-S2 FOR BASE BATTER

NOTES:

- 1. Sample design for preliminary estimating only, based on 80 mil polyester geogrid with tensile strength of 1600 lb/ft; for polyethelyne grids, adjust design per grid properties.
- 2. Analysis of global stability not included here, and should be part of final design by qualified structural engineer.
- 3. Minimum safety factors to be used for final design should be: 1.5 for tension, 1.5 for external sliding and 2.0 for overturning.
- 4. Final design must consider actual soil type and conditions.
- 5. For taller applications wall batter or setbacks may be required; Detailed analysis of global stability is mandatory.

REINFORCED SECTION - case C

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WALL ANGLE 0°

1:3 BACKSLOPE

7-S2

TERRASTOP™ SYSTEM 2

RAPID BUILDING SYSTEMS P.O. Box 3335 Reston, VA 20195 - USA

ALE: NONE PROJECT: 99601

AWN: rp DESIGN: JP DATE: 6-01