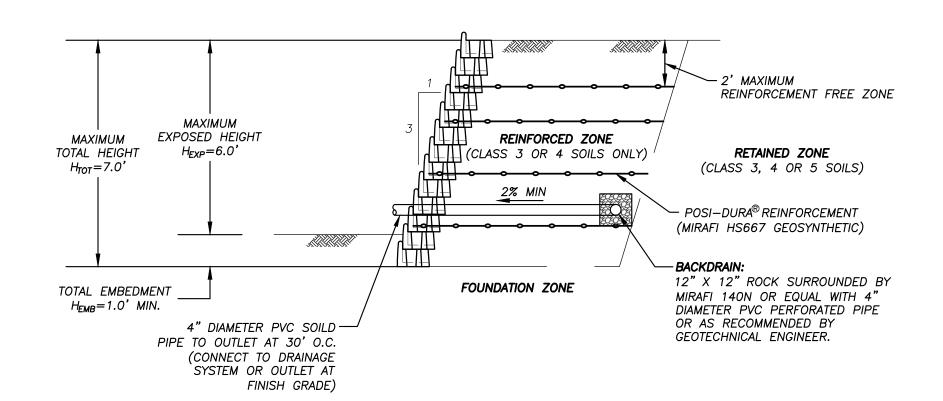
VERDURA® 30 RETAINING WALL DESIGN CASES



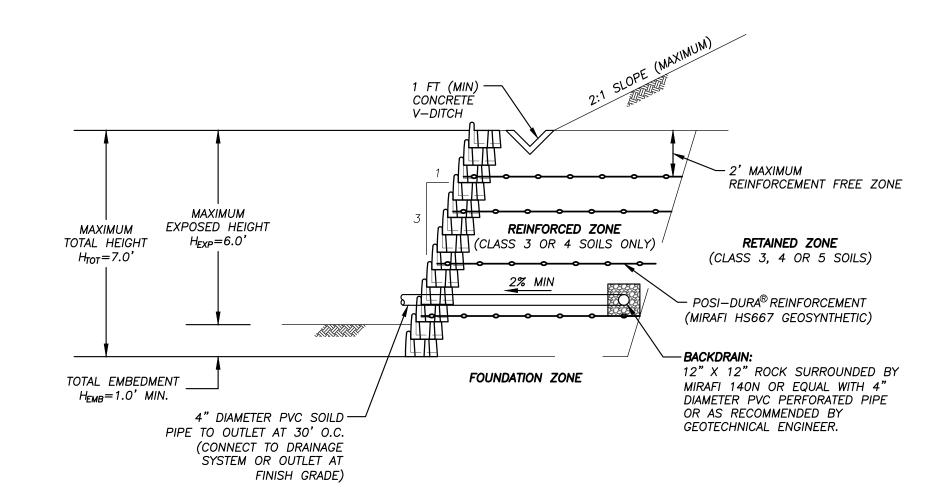
CASE I - LEVEL BACKFILL

SCALE: 1"=3"

TRAFFIC SURCHARGE LIVE LOAD $q_L = 200 \text{ psf}$ ' MAXIMUM REINFORCEMENT FREE ZONE MAXIMUM EXPOSED HEIGHT REINFORCED ZONE MAXIMUM $H_{EXP}=6.0$ RETAINED ZONE TOTAL HEIGHT $\downarrow \mid \downarrow \mid$ (CLASS 3 OR 4 SOILS ONLY) (CLASS 3, 4 OR 5 SOILS) POSI-DURA® REINFORCEMENT (MIRAFI HS667 GEOSYNTHETIC) 12" X 12" ROCK SURROUNDED BY FOUNDATION ZONE TOTAL EMBEDMENT MIRAFI 140N OR EQUAL WITH 4"
DIAMETER PVC PERFORATED PIPE
OR AS RECOMMENDED BY
GEOTECHNICAL ENGINEER. 4" DIAMETER PVC SOILD—
PIPE TO OUTLET AT 30' O.C.
(CONNECT TO DRAINAGE
SYSTEM OR OUTLET AT FINISH GRADE)

CASE II - LEVEL BACKFILL W/ TRAFFIC SURCHARGE

SCALE: 1"=3'



CASE III - 2:1 SLOPING BACKFILL

SCALE: 1"=3"

CLASS OF SOIL PER TABLE 4	TOTAL WALL HEIGHT (H _{TOT}) (FEET) INCLUDING EMBEDMENT	EXPOSED WALL HEIGHT (H _{EXP}) (FEET)	EMBEDMENT DEPTH (H _{EMB}) (FEET)	NUMBER OF POSI—DURA LAYERS	LENGTH OF POSI—DURA REINFORCEMENT (FEET)
3 GW AND GP	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	4.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	5.5
4 SW, SP, SM, SC, GM AND GC	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	5.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	6.5
5 CL, ML, MH AND CH	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	5.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	6.5

CASE I - LEVEL BACKFILL

CLASS OF SOIL PER TABLE 4	TOTAL WALL HEIGHT (H _{TOT}) (FEET) INCLUDING EMBEDMENT	EXPOSED WALL HEIGHT (H _{EXP}) (FEET)	EMBEDMENT DEPTH (H _{EMB}) (FEET)	NUMBER OF POSI—DURA LAYERS	LENGTH OF POSI—DURA REINFORCEMENT (FEET)
3 GW AND GP	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	4.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	5.5
4 SW, SP, SM, SC, GM AND GC	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	5.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	6.5
5 CL, ML, MH AND CH	4.3 TO 5.0	3.3 TO 4.0	1.0	2	3.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	4.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	5.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	6.5

CASE II - LEVEL BACKFILL W/ TRAFFIC SURCHARGE

CLASS OF SOIL PER TABLE 4	TOTAL WALL HEIGHT (H _{TOT}) (FEET) INCLUDING EMBEDMENT	EXPOSED WALL HEIGHT (H _{EXP}) (FEET)	EMBEDMENT DEPTH (H _{EMB}) (FEET)	NUMBER OF POSI—DURA LAYERS	LENGTH OF POSI—DURA REINFORCEMENT (FEET)
3 GW AND GP	4.3 TO 5.0	3.3 TO 4.0	1.0	2	4.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	5.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	6.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	7.5
	4.3 TO 5.0	3.3 TO 4.0	1.0	2	5.5
4	5.0 TO 6.0	4.0 TO 5.0	1.0	3	6.5
SW, SP, SM, SC, GM AND GC	6.0 TO 6.5	5.0 TO 5.5	1.0	3	7.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	8.5
5 CL, ML, MH AND CH	4.3 TO 5.0	3.3 TO 4.0	1.0	2	6.5
	5.0 TO 6.0	4.0 TO 5.0	1.0	3	7.5
	6.0 TO 6.5	5.0 TO 5.5	1.0	3	9.5
	6.5 TO 7.0	5.5 TO 6.0	1.0	4	10.5

CASE III - 2:1 SLOPING BACKFILL



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