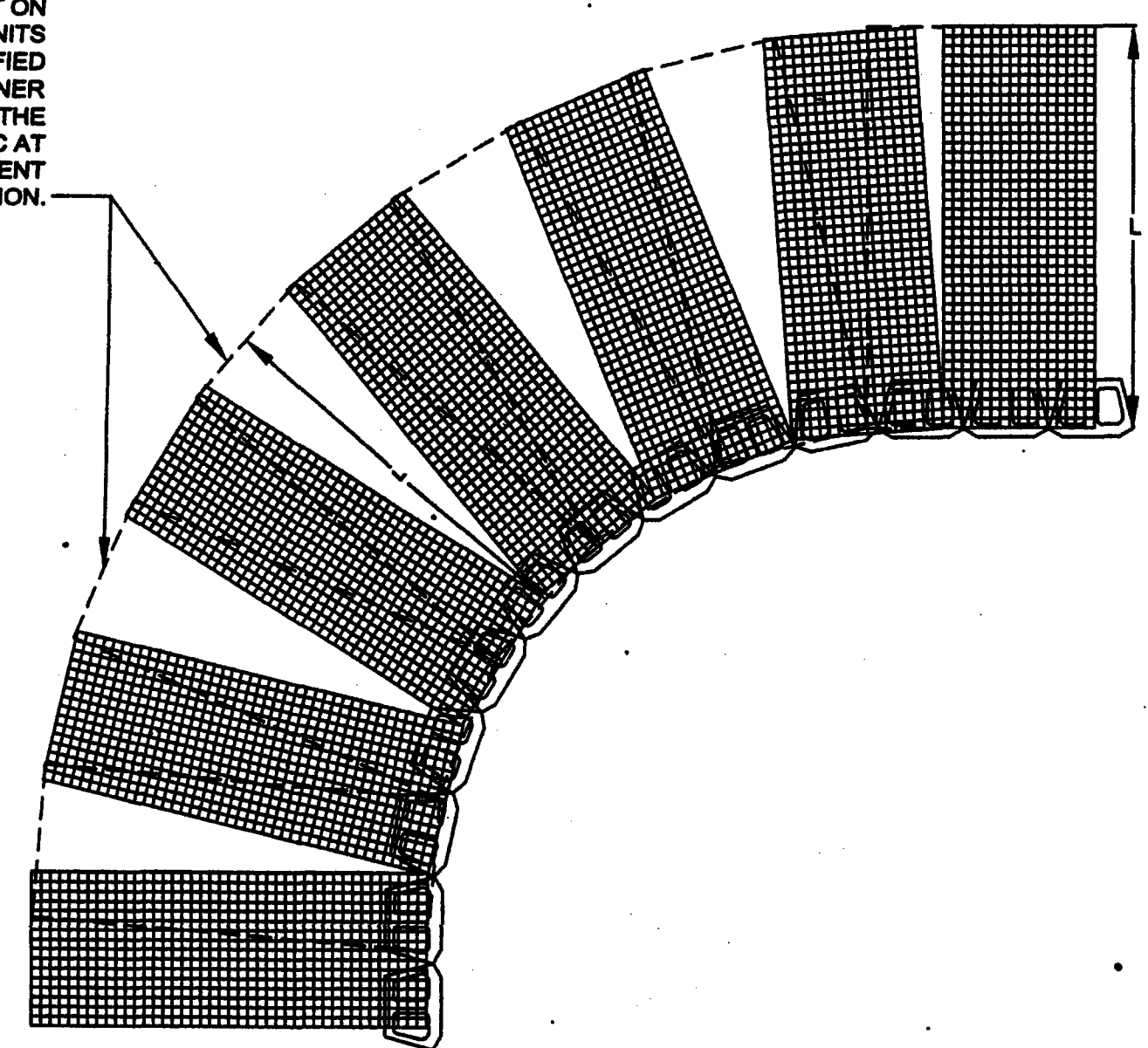


DRAWING NOTES:

- DESIGN IS BASED ON C.M. LAVOIE & ASSOCIATES, INC. DRAWING 8 OF 12 DATED 05/18/05. THE CONTRACTOR SHALL REFERENCE THIS DRAWING AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR ADDITIONAL INFORMATION (SUCH AS LIGHT POSTS, FENCE OR TREES NOT SHOWN ON THE REFERENCED DRAWING) PRIOR TO CONSTRUCTION.
- A GLOBAL STABILITY ANALYSIS OF THE RETAINING WALLS HAS BEEN PERFORMED FOR THE PRODUCTION OF THESE RETAINING WALL DOCUMENTS BASED UPON THE SOIL INFORMATION OUTLINED BELOW. THE FACTOR OF SAFETY IS 1.3 MINIMUM.
- FOR PURPOSES OF DESIGNING THE WALLS FOR INTERNAL, EXTERNAL AND FACING STABILITY, THE SITE SOIL HAS BEEN ASSUMED TO HAVE AN INTERNAL ANGLE OF FRICTION OF 27° WITHOUT THE USE OF ANY COHESION. FOR THE GLOBAL STABILITY ANALYSIS, AN ANGLE OF FRICTION OF 27° AND A COHESION OF 40 PSF HAS BEEN ASSUMED. SITE SOIL SHALL HAVE A MINIMUM ALLOWABLE BEARING CAPACITY OF 3,000 PSF. THE ABOVE PARAMETERS ARE ASSUMED TO EXIST IN THE FOUNDATION, REINFORCED AND RETAINED SOIL ZONES. NO SOILS INFORMATION HAS BEEN PROVIDED TO THE ENGINEER AT THIS TIME. IT IS THE RESPONSIBILITY OF THE OWNER AND/OR THE PROJECT GEOTECHNICAL ENGINEER TO INVESTIGATE AND CONFIRM THE ABOVE VALUES AS APPROPRIATE FOR THE DESIGN, AND TO INFORM THE ENGINEER IF THE DESIGN REQUIRES ALTERATION FOR LESS FAVORABLE PARAMETERS.
- THE RETAINING WALLS ARE DESIGNED FOR A UNIFORM PRESSURE LIVE LOAD SURCHARGE OF 50 PSF.
- GEOSYNTHETIC REINFORCING SHALL BE MIRAFI MIRAGRID 3XT AS INDICATED ON THE PANEL ELEVATIONS.
- WALLS FOR THE DETENTION BASIN ARE DESIGNED ASSUMING A 36" PERCHED WATER PRESSURE.
- THE GENERAL CONTRACTOR SHALL FORWARD THESE DRAWINGS TO ALL PARTIES RESPONSIBLE FOR THE DESIGN OF THIS SITE.

CSDI NO. 05035

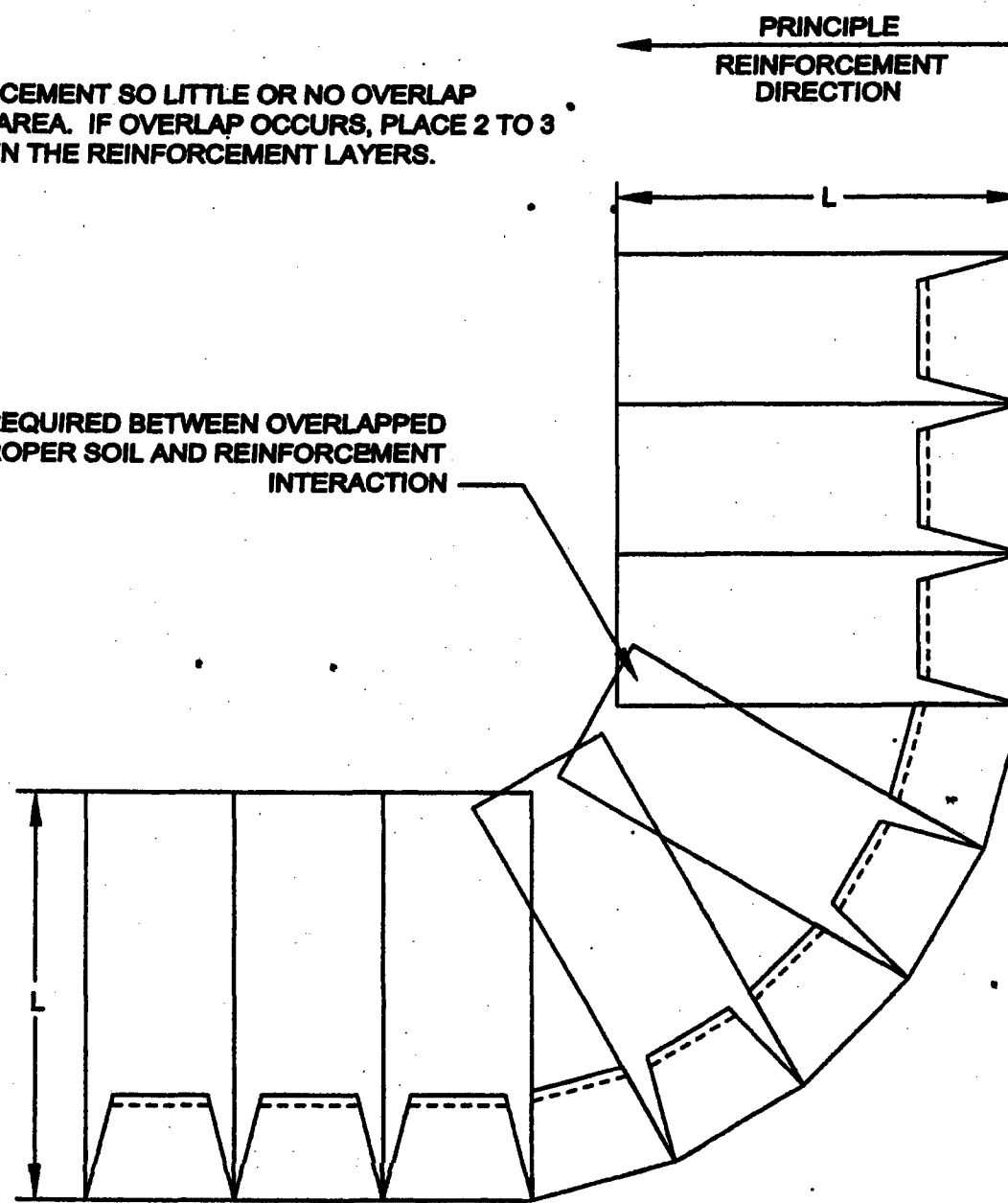
PLACE ADDITIONAL REINFORCEMENT ON THE NEXT COURSE OF SEGMENTAL UNITS IMMEDIATELY ABOVE THE SPECIFIED PLACEMENT ELEVATION IN A MANNER THAT ELIMINATES GAPS LEFT BY THE PREVIOUS LAYER OF GEOSYNTHETIC AT THE SPECIFIED REINFORCEMENT ELEVATION.



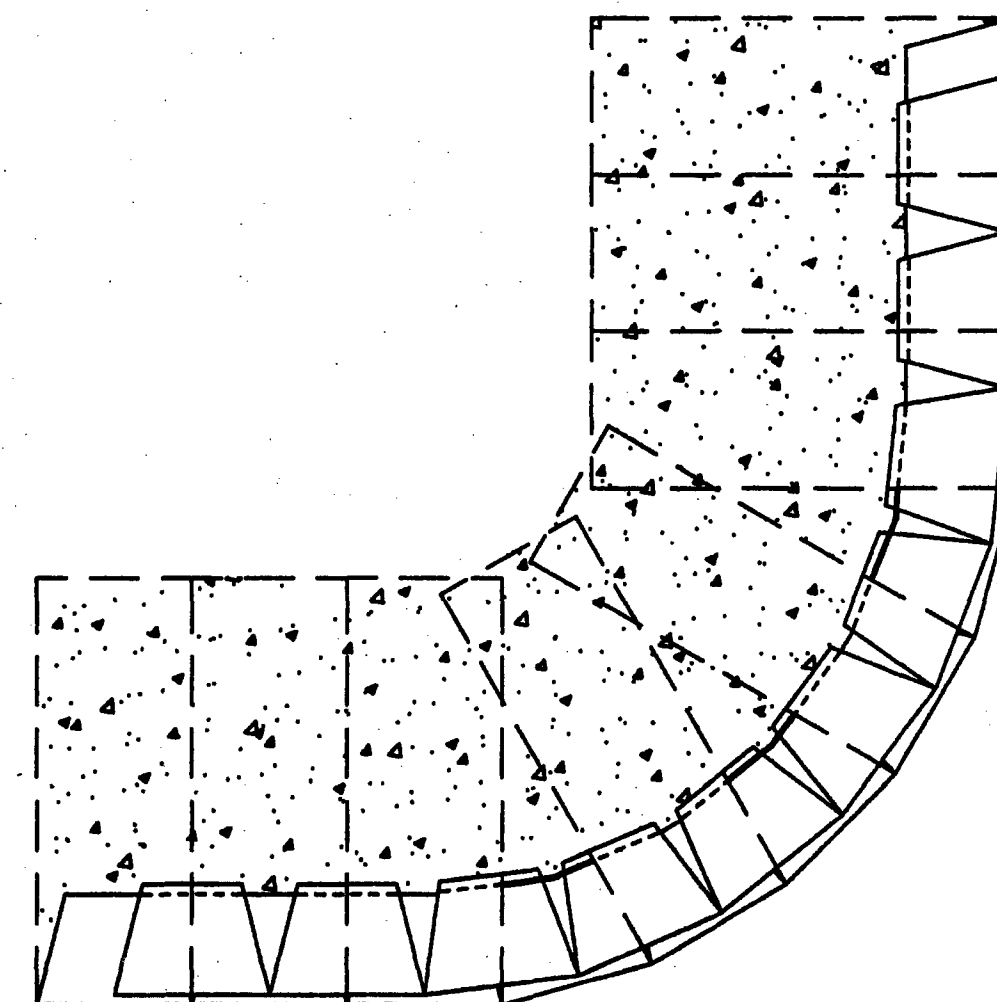
**ANCHOR DIAMOND PRO BLOCK
INSIDE CURVE/CORNER WITH REINFORCEMENT**

STEP 1 - PLACE REINFORCEMENT SO LITTLE OR NO OVERLAP OCCURS IN THE RADIUS AREA. IF OVERLAP OCCURS, PLACE 2 TO 3 INCHES OF SOIL BETWEEN THE REINFORCEMENT LAYERS.

2" TO 3" OF SOIL FILL REQUIRED BETWEEN OVERLAPPED REINFORCEMENT FOR PROPER SOIL AND REINFORCEMENT INTERACTION

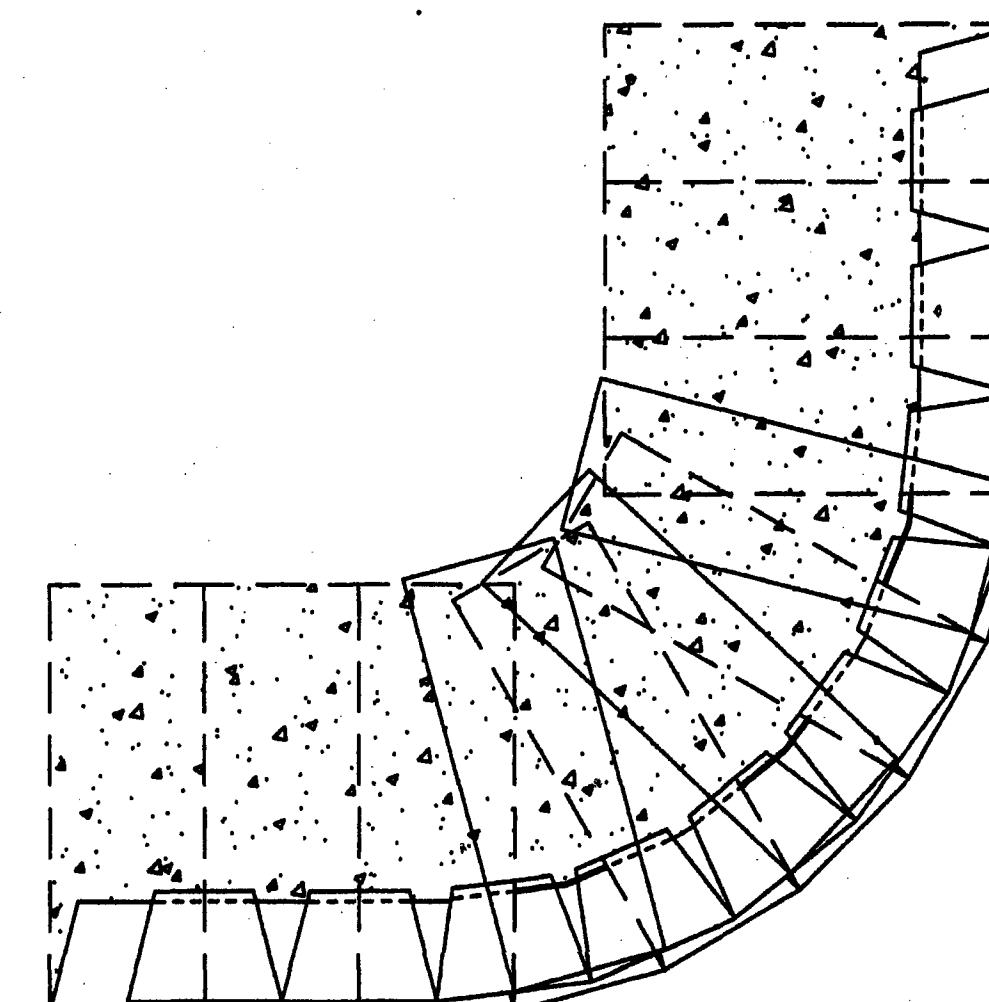


STEP 2 - LAY THE NEXT COURSE OF BLOCK. MAKE A MARK ON THE BACK OF THE BLOCKS IN THE AREAS THAT ARE NOT REINFORCED BACKFILL AND COMPACT THAT COURSE.

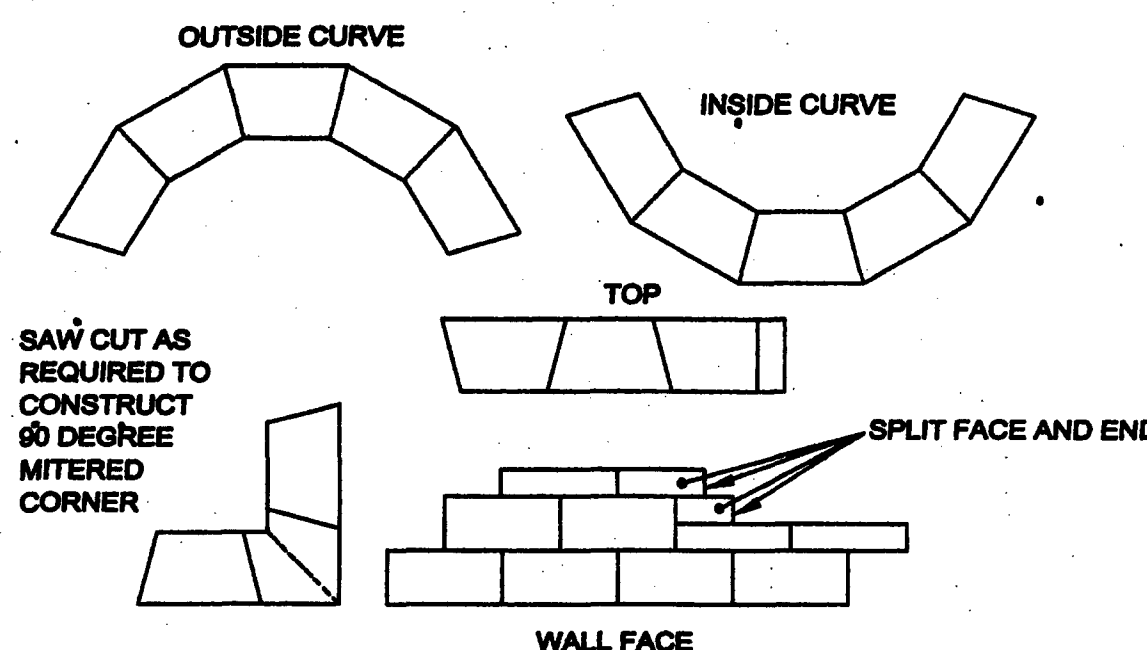


**TYPICAL LAYOUT - ALL PRODUCTS
OUTSIDE CURVE/CORNER WITH REINFORCEMENT**

STEP 3 - PLACE REINFORCEMENT IN THE AREAS WHERE THE MARKS SHOW GAPS IN THE LOWER REINFORCEMENT PATTERN. CONTINUE NORMAL WALL CONSTRUCTION, REPEATING THESE STEPS AS NEEDED.



- ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
- LAYOUT CAPS PRIOR TO APPLYING ADHESIVE.
- CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
- ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
- USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.

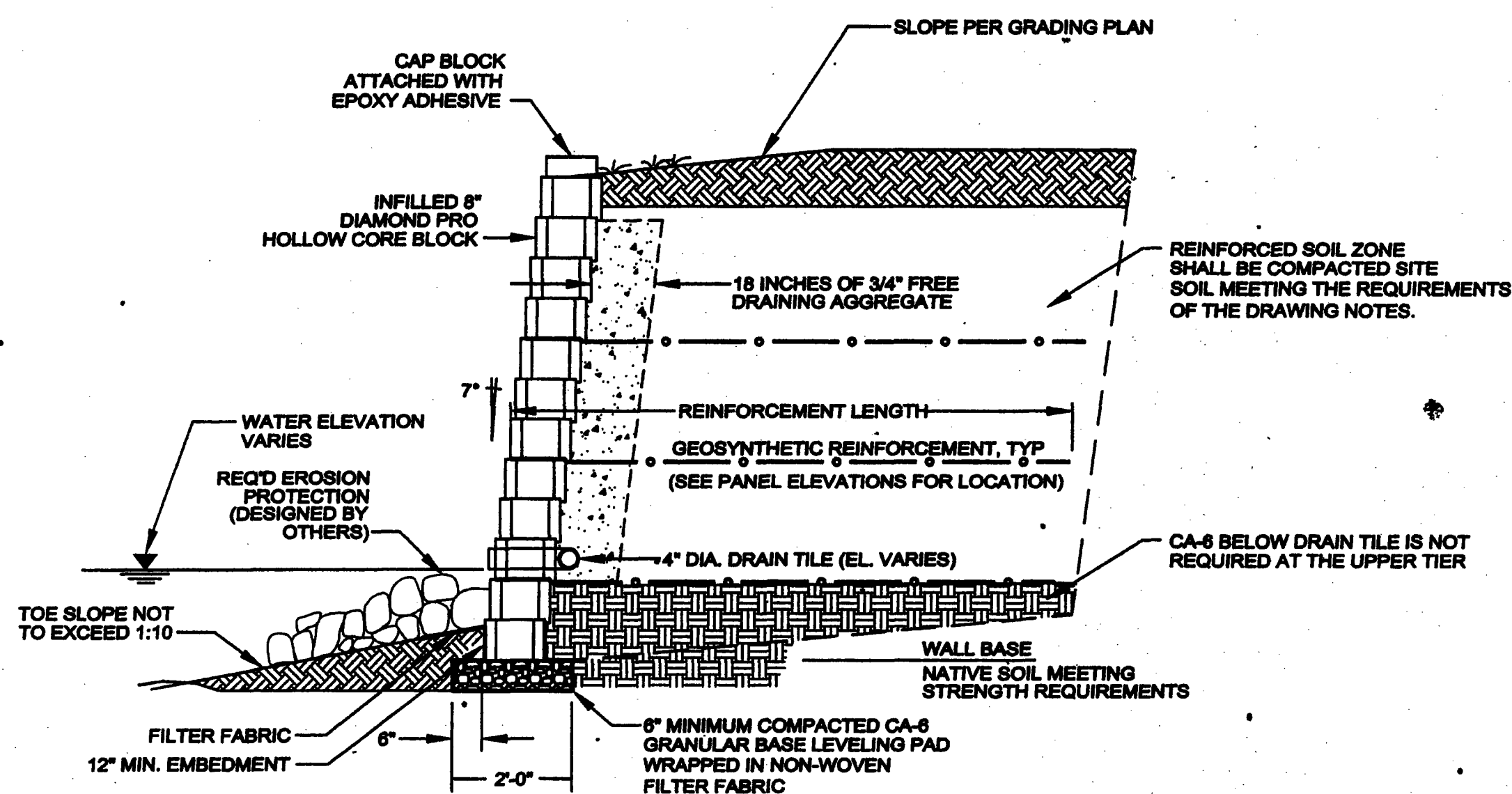


**ANCHOR DIAMOND PRO BLOCK
DESIGN DETAILS - CAP BLOCK**

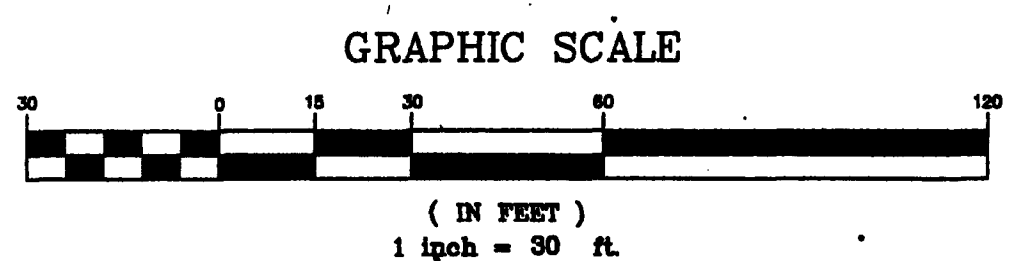
GENERAL NOTES FOR GEOSYNTHETIC REINFORCEMENT

- AT THE ELEVATIONS SHOWN ON THE CONSTRUCTION PLANS, THE GEOSYNTHETIC SHALL BE LAID HORIZONTALLY ON COMPACTED SOIL FILL AND PLACED ON TO THE DIAMOND PRO UNITS.
- CORRECT ORIENTATION (ROLL DIRECTION) OF THE GEOSYNTHETIC SHALL BE VERIFIED BY THE CONTRACTOR TO BE IN ACCORDANCE WITH THE GEOSYNTHETIC MANUFACTURER'S RECOMMENDATIONS.
- THE GEOSYNTHETIC SHALL BE IN TENSION AND FREE OF WRINKLES PRIOR TO PLACEMENT OF SOIL FILL.
- NOMINAL TENSION SHALL BE APPLIED TO THE GEOSYNTHETIC AND SECURED IN PLACE WITH STAPLES, STAKES OR BY HAND TENSIONING UNTIL THE GEOSYNTHETIC IS COVERED BY SIX INCHES OF SOIL FILL.

REINFORCEMENT SPACING, REINFORCEMENT LENGTHS, ELEVATIONS, WALL HEIGHTS, AND EMBEDMENT DEPTHS SHOWN ARE CONCEPTUAL ONLY, AND SHOULD NOT BE USED FOR CONSTRUCTION. PLEASE REFER TO THE PANEL ELEVATIONS FOR ALL ELEVATIONS, REINFORCEMENT TYPES, REINFORCEMENT LENGTHS, AND REINFORCEMENT SPACING. CORES OMITTED FOR CLARITY.



**ANCHOR DIAMOND PRO BLOCK
WATER APPLICATION**



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12 10-24-06 PER VILLAGE REVIEW

NELSON MEADOW

WEST SIDE OF CARPENTER STREET
DOWNERS GROVE, ILLINOIS

RETAINING WALL DETAILS

10 5-23-06 PER VILLAGE REVIEW	11 7-21-06 PER VILLAGE REVIEW	DRAWN BY: MJM	CHECKED BY: MJM																											
9 4-5-06 PER VILLAGE REVIEW		SCALE: N.T.S.	DATE: 08-01-05																											
JOB NUMBER: 04-629	SHEET 16 OF 17																													
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Consulting Civil Engineering
Land Planning & Surveying
1050 W. Route 126
Plainfield, Illinois 60544
voice 815-254-0305
fax 815-436-5158