

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



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

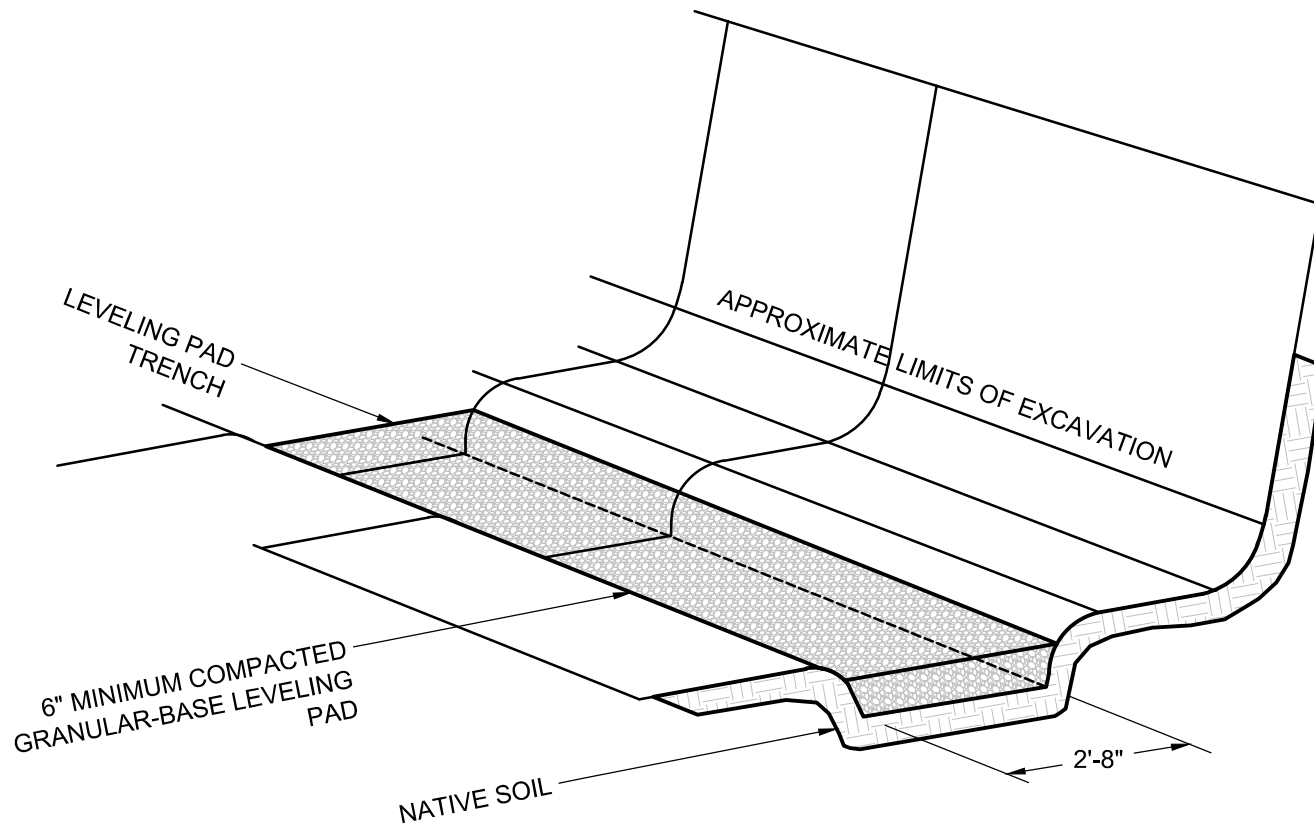
Capping Details

Scale:
3/8" - 1'-0"

Drawn By:
LM

Date:
1/20/2016

Drawing Number:
VEPR01



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

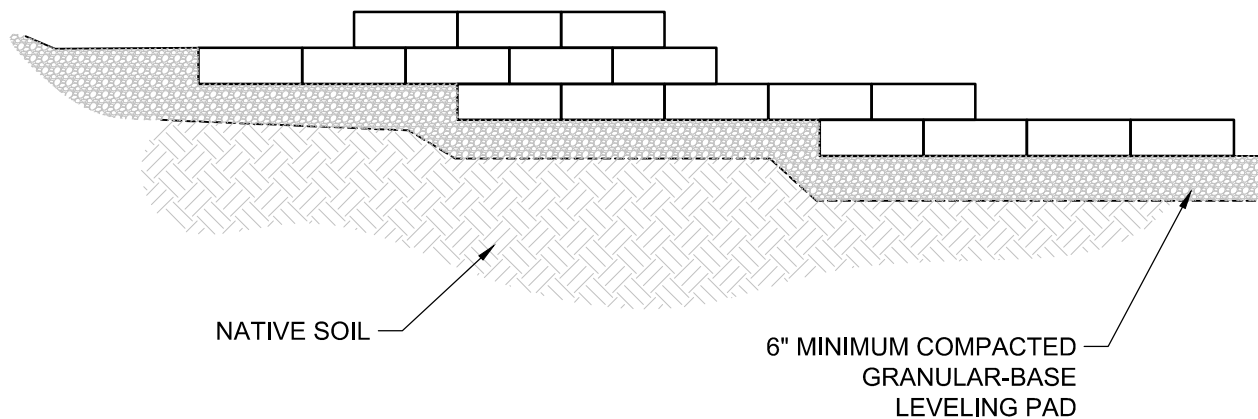
Typical Base Preparation

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:
1/20/2016

Drawing Number:
VEPR02



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

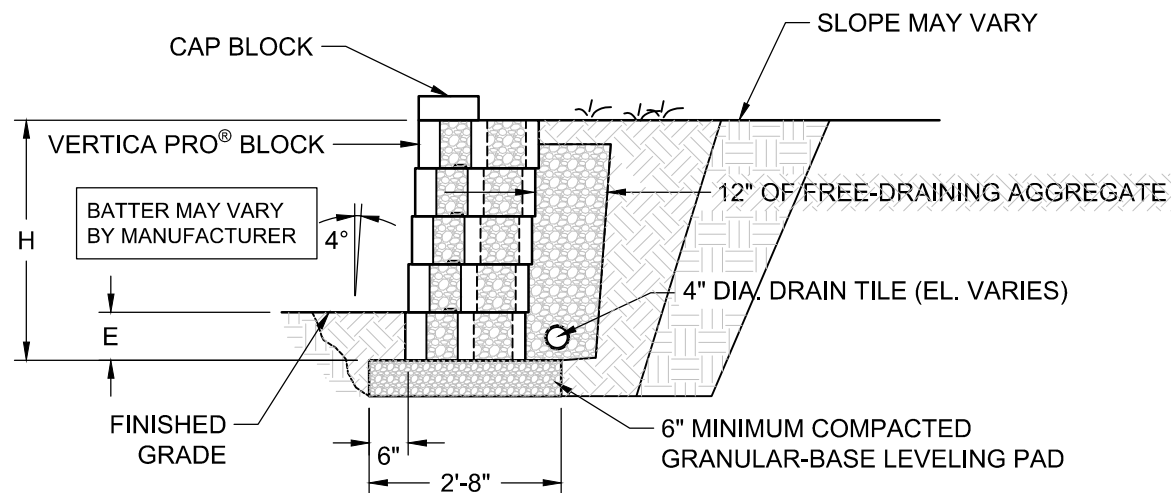
Typical Base Step-Up

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR03



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

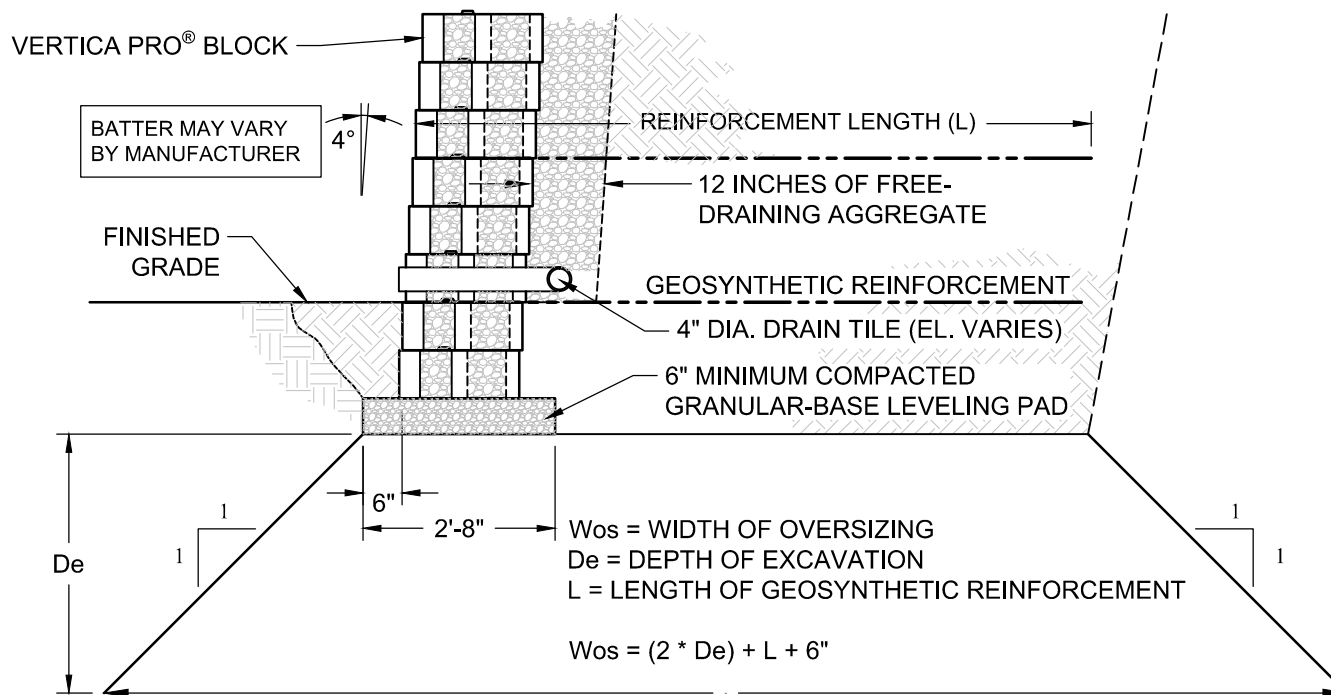
Typical Gravity Cross Section

Scale:
3/8" - 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR05



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

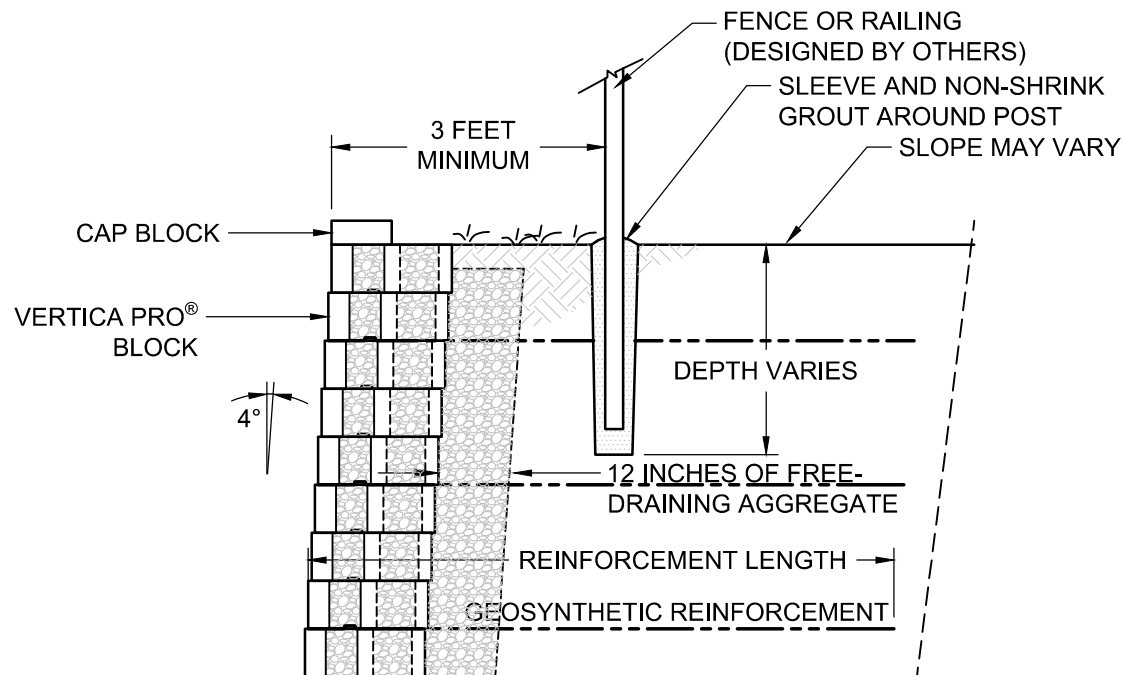
Typical Excavation Oversizing

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR06



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

Typical Fence Cross Section

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR07



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

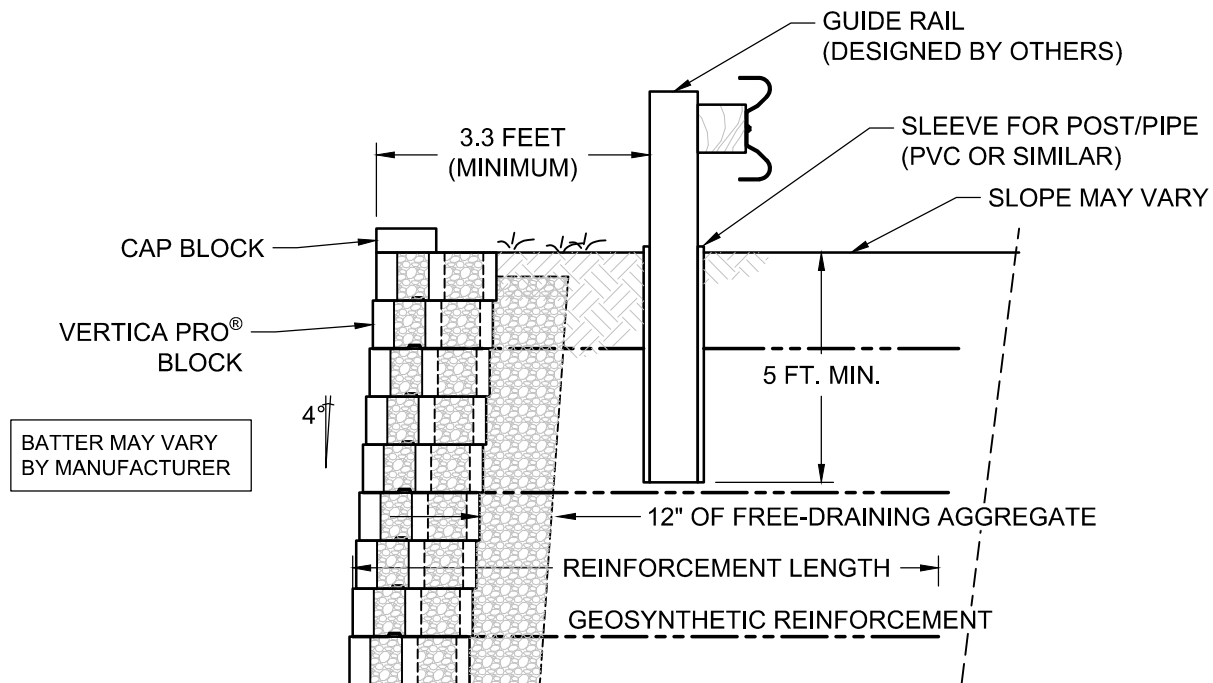
www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

Typical Fence Section with Sleeve-It

Scale:	Drawn By:
3/8" - 1'-0"	SB
Date:	Drawing Number:
---	VEPR08



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

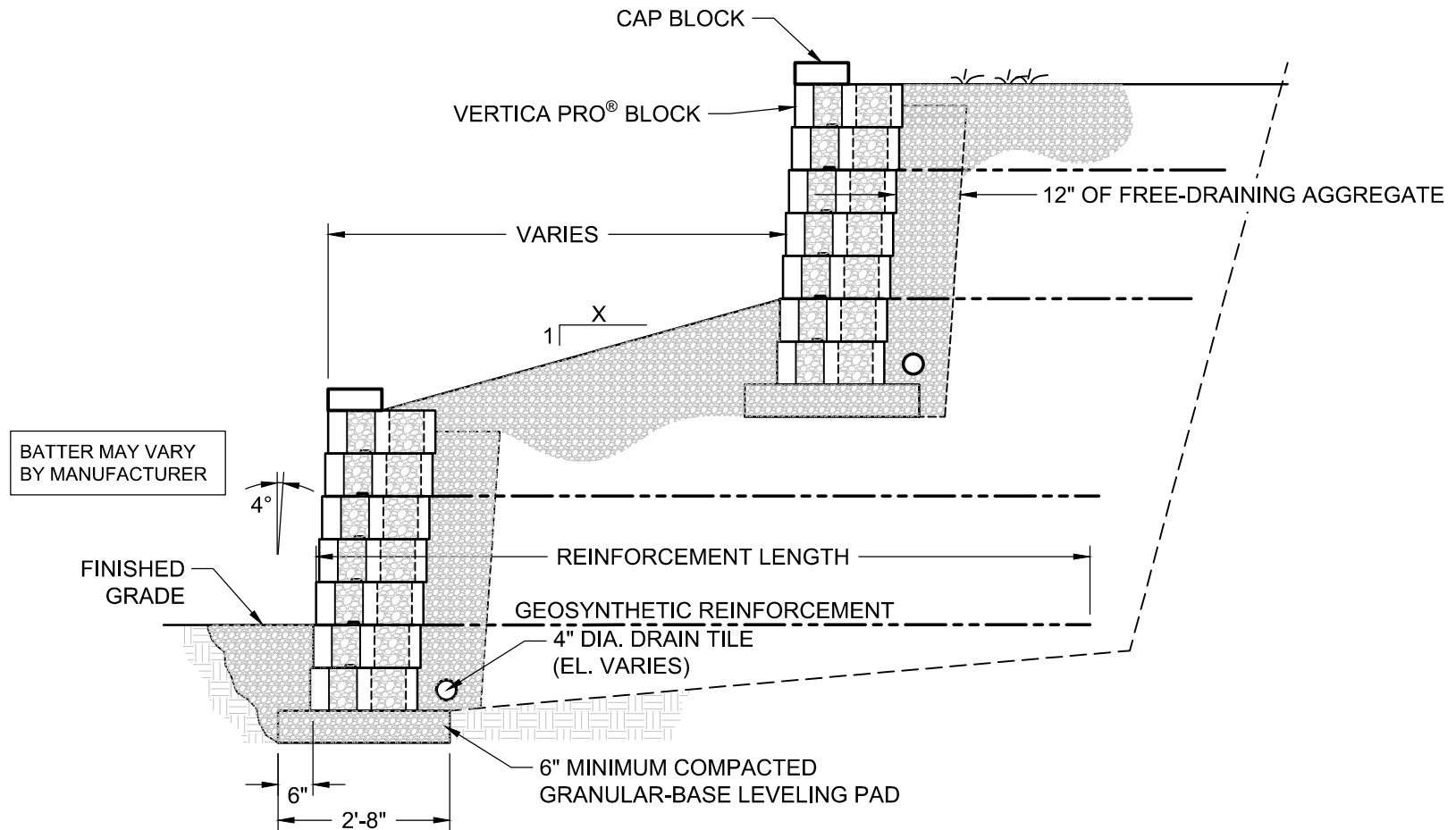
www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

Typical Guide Rail Section

Scale:	Drawn By:
3/8" - 1'-0"	LM
Date:	Drawing Number:
---	VEPR09



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

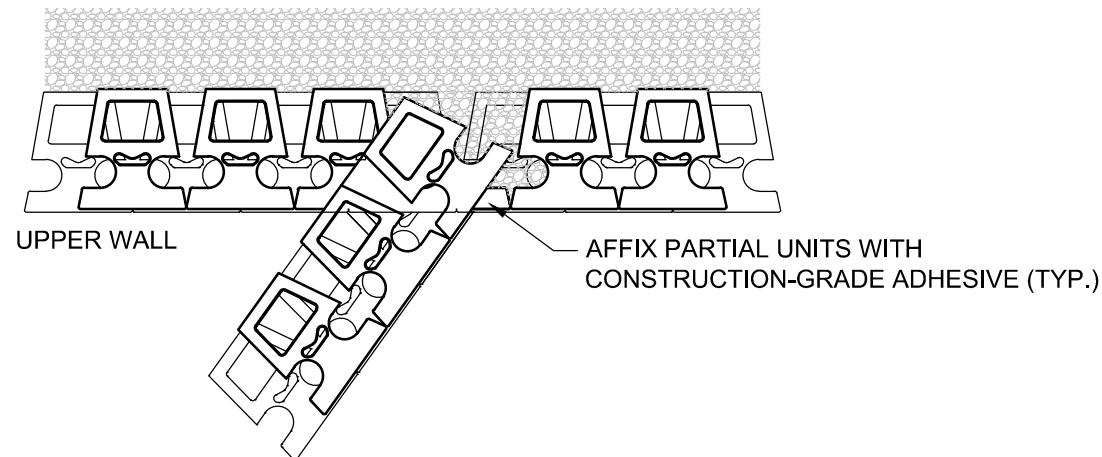
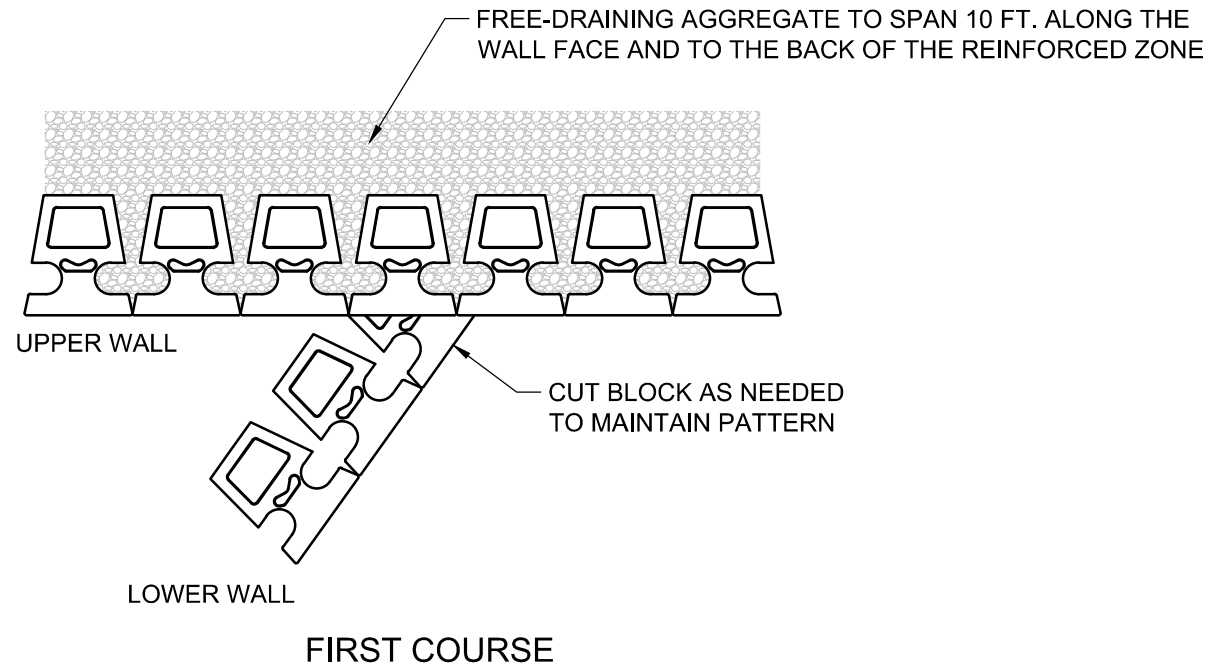
Typical Terraced Wall Cross Section

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR10



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

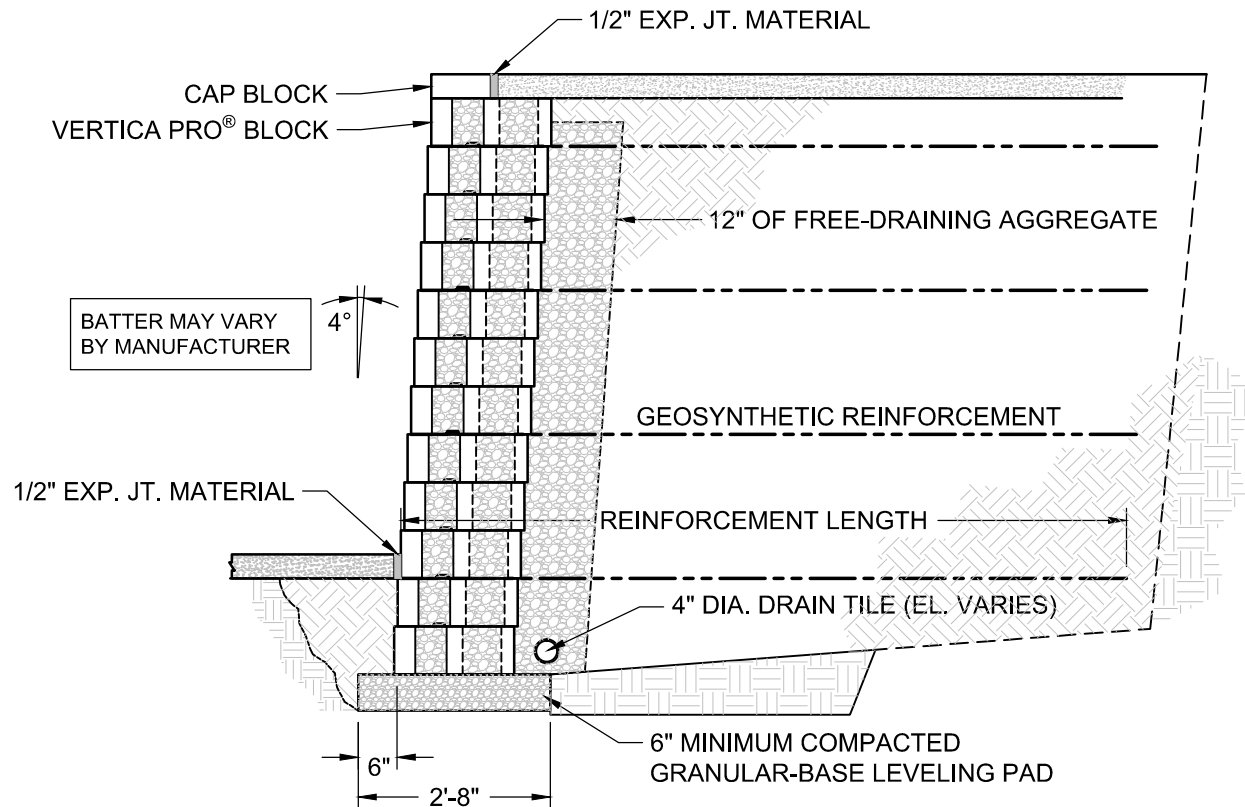
Typical Terraced Wall Connection

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR11



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

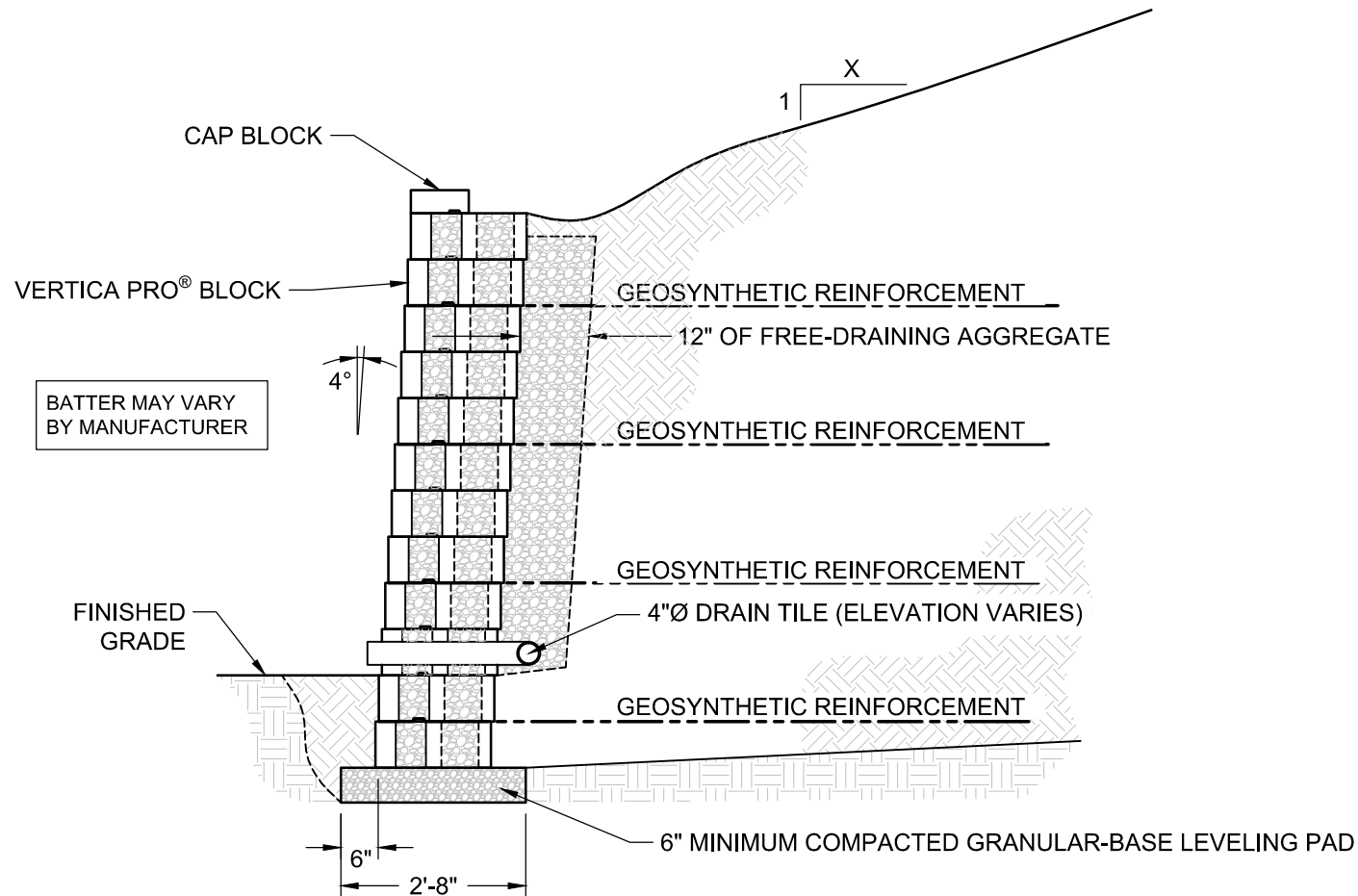
Typical Cross Section with Sidewalk

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR12



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

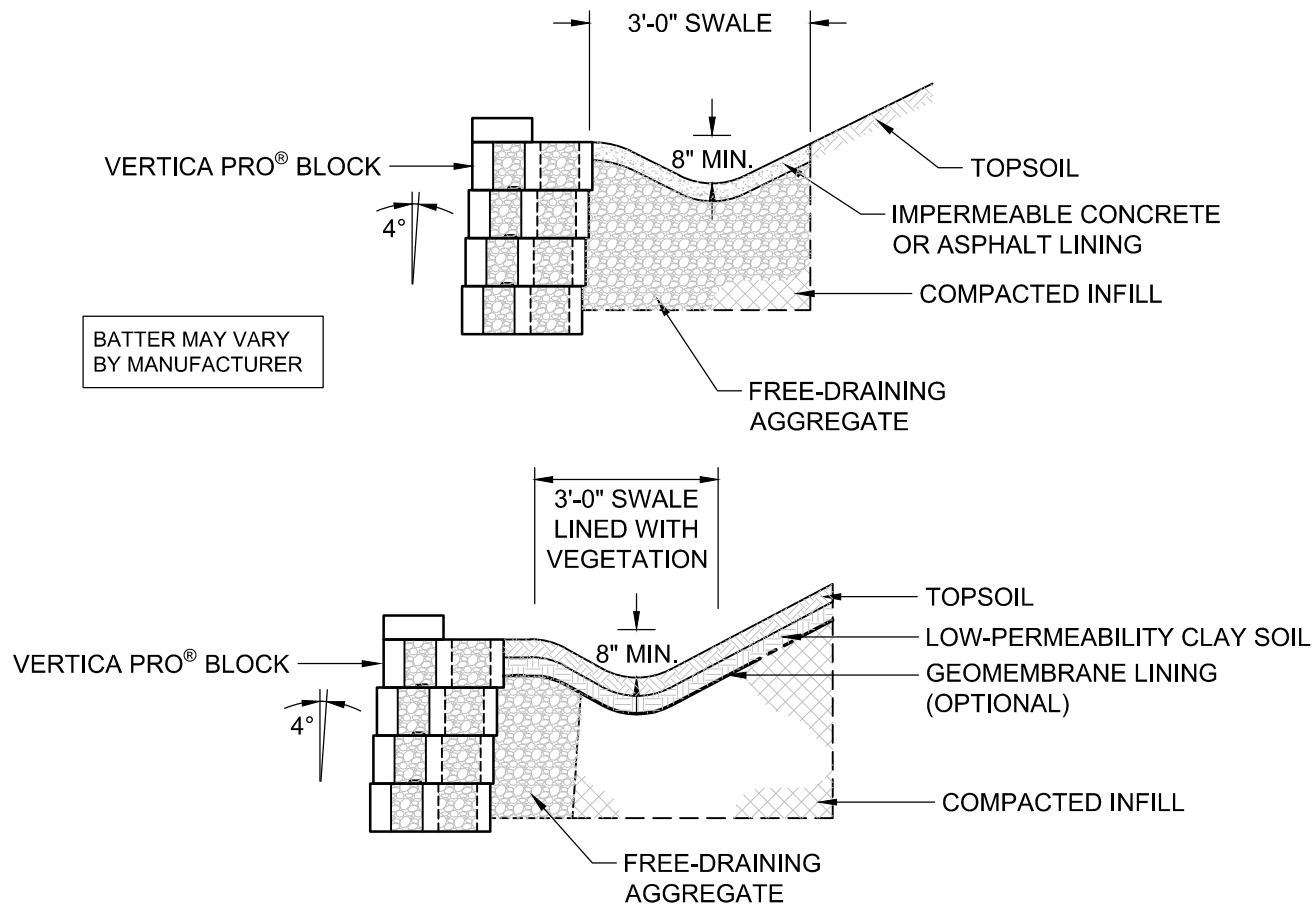
Reinforced Cross Section with Crest Slope

Scale:
3/8" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR13



REFER TO THE NCMA DESIGN MANUAL FOR ADDITIONAL DETAILS



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

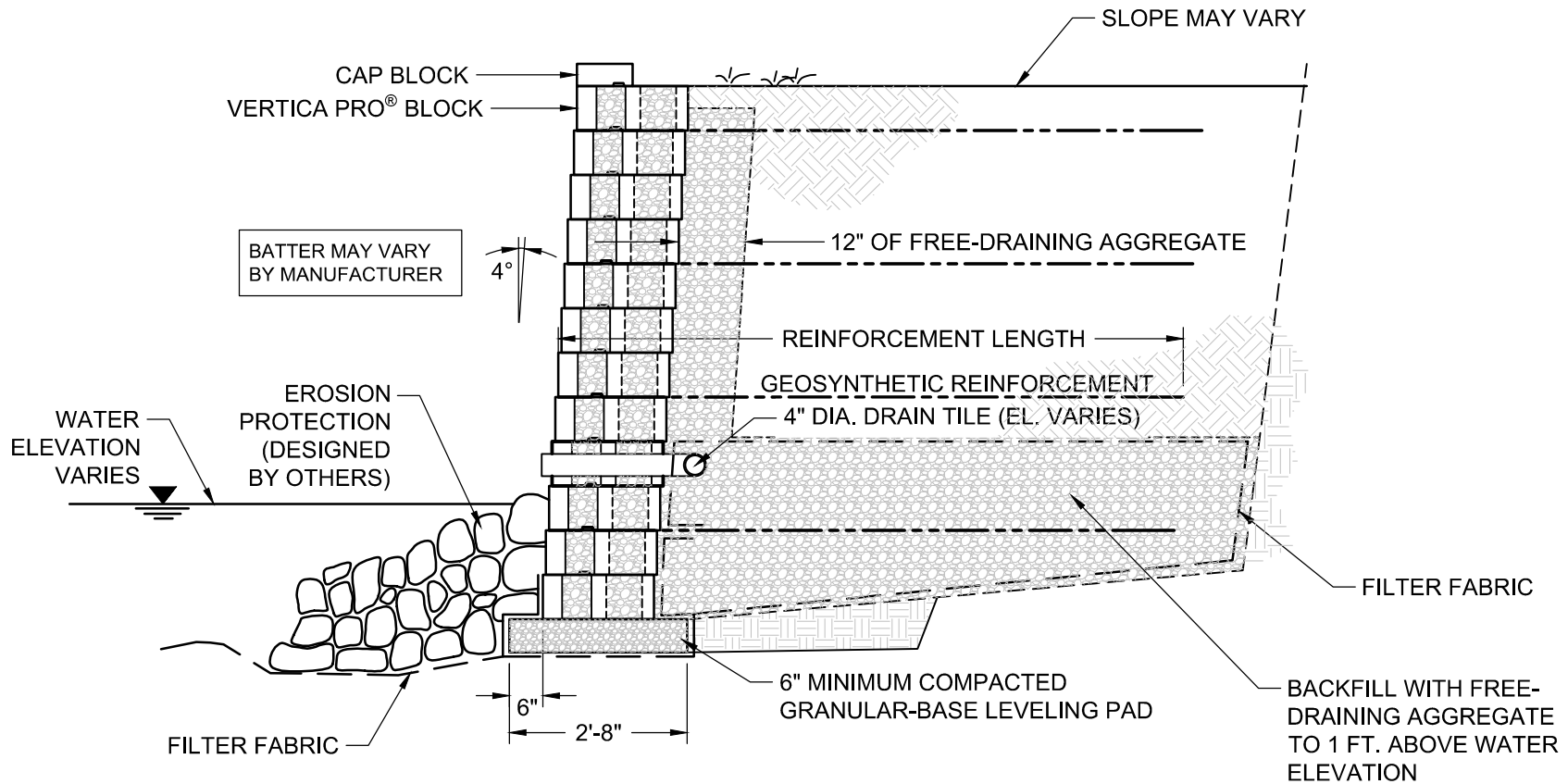
Typical Drainage Swale Cross Section

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR14



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

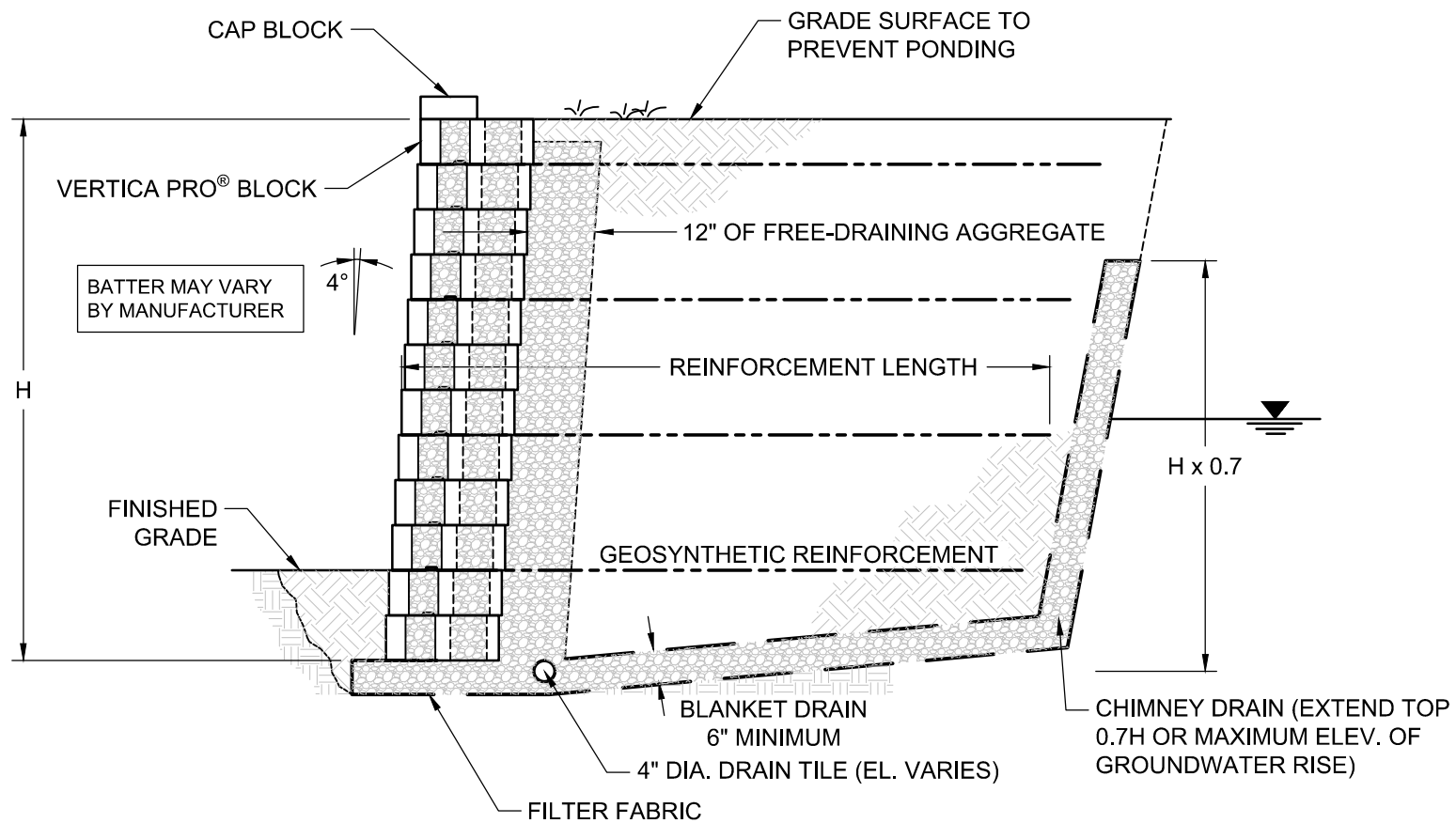
Typical Shore Cross Section

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR15



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

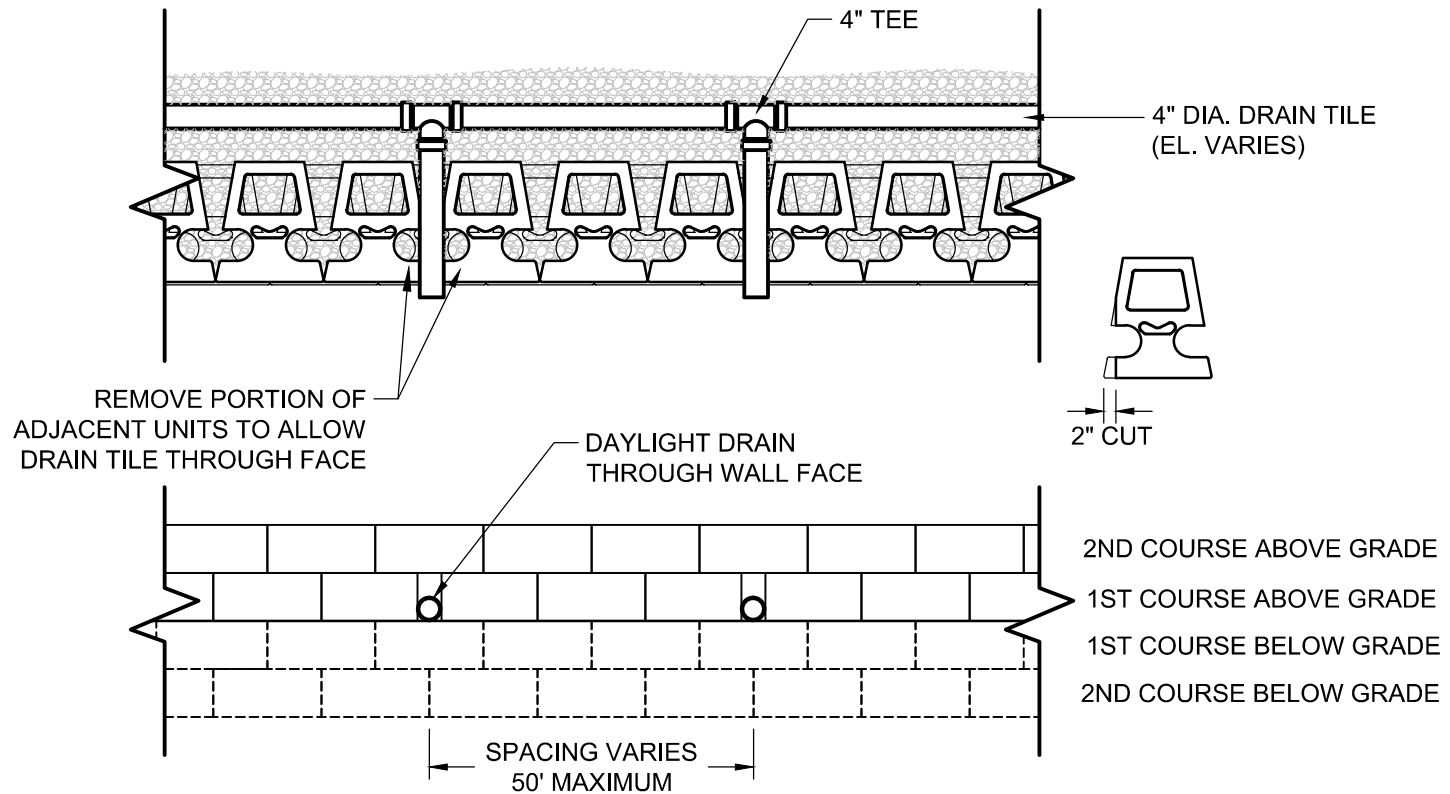
Typical Groundwater Intrusion Cross Section

Scale:
3/8" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR16



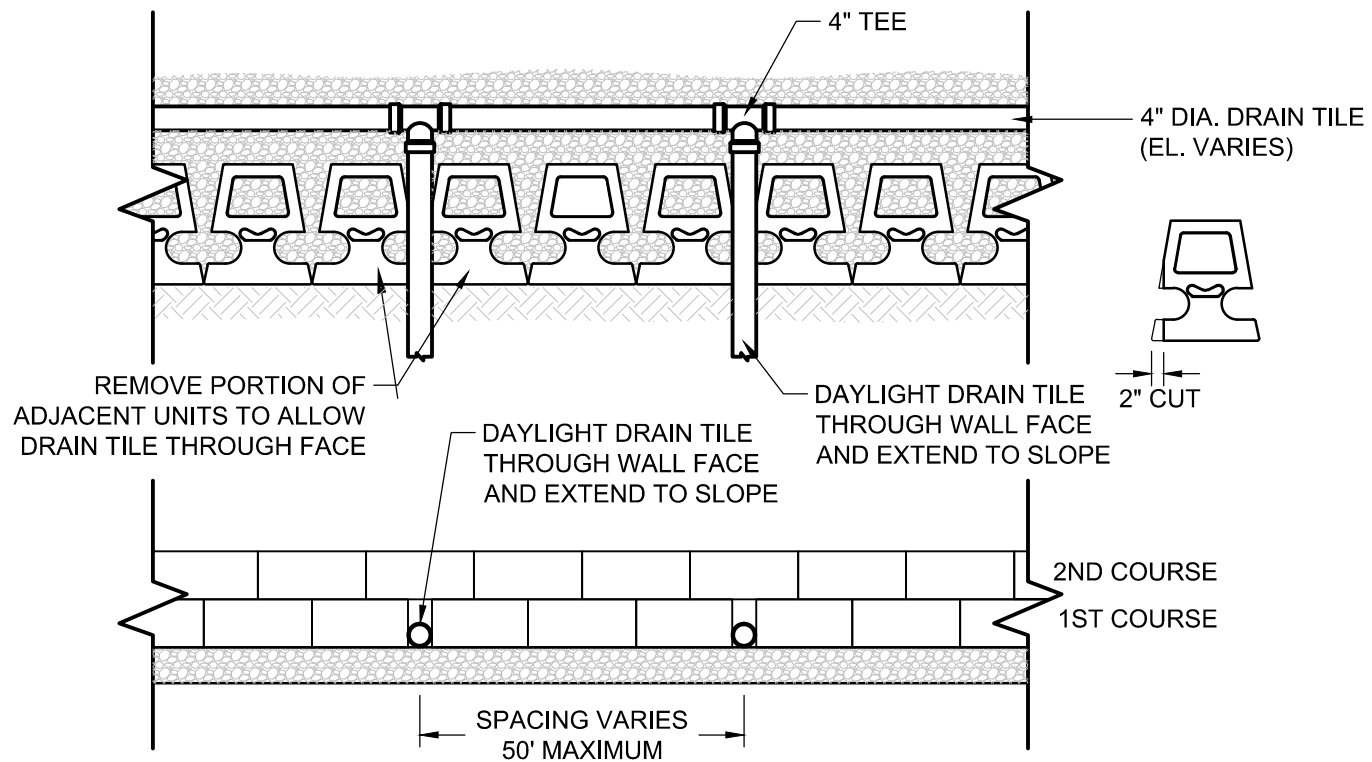
This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System Typical Drain Pipe Through Wall Face

Scale:	Drawn By:
3/8" - 1'-0"	LM
Date:	Drawing Number:
---	VEPR17



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

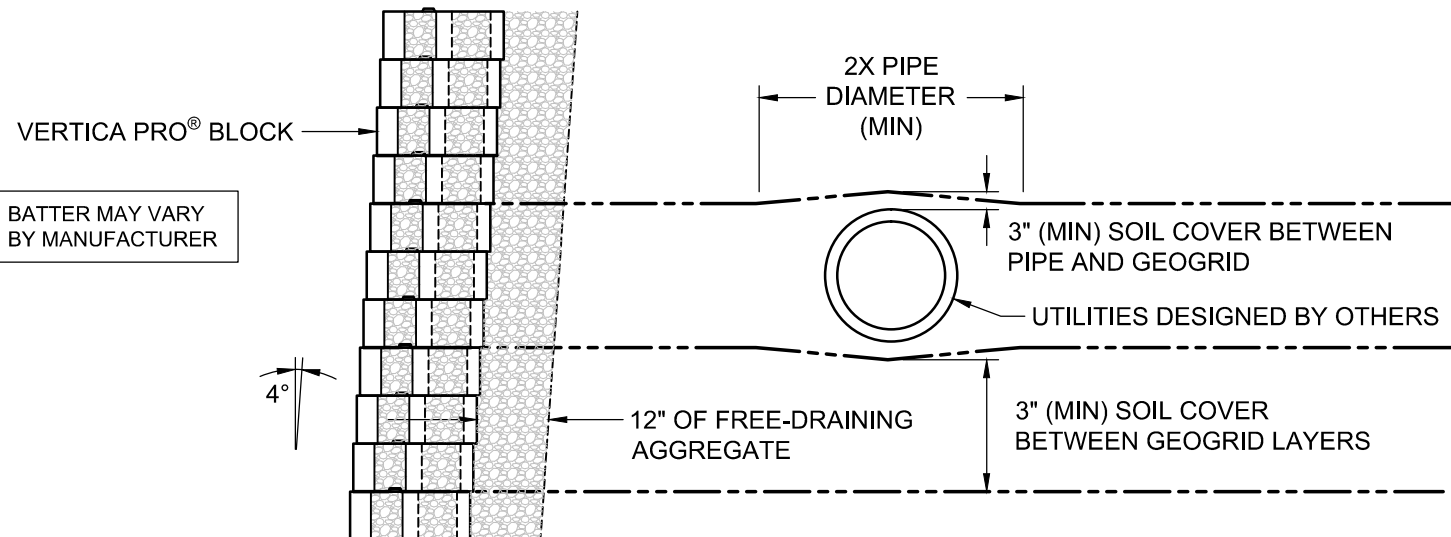
Vertica Pro[®] Retaining Wall System Typical Drain Pipe Through Toe Slope

Scale:
3/8" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR18



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

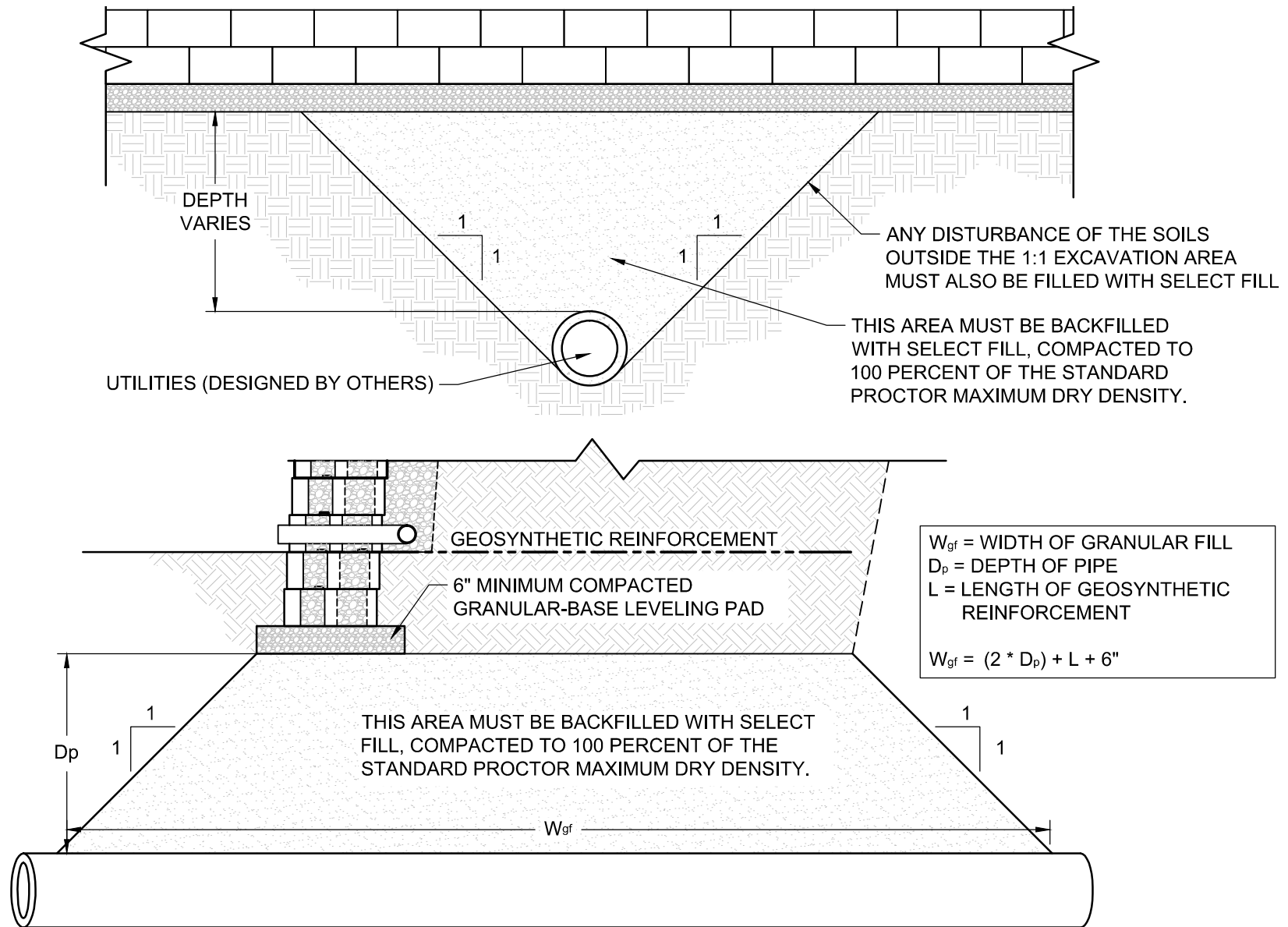
Typical Cross Section with Parallel Utilities

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR19



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

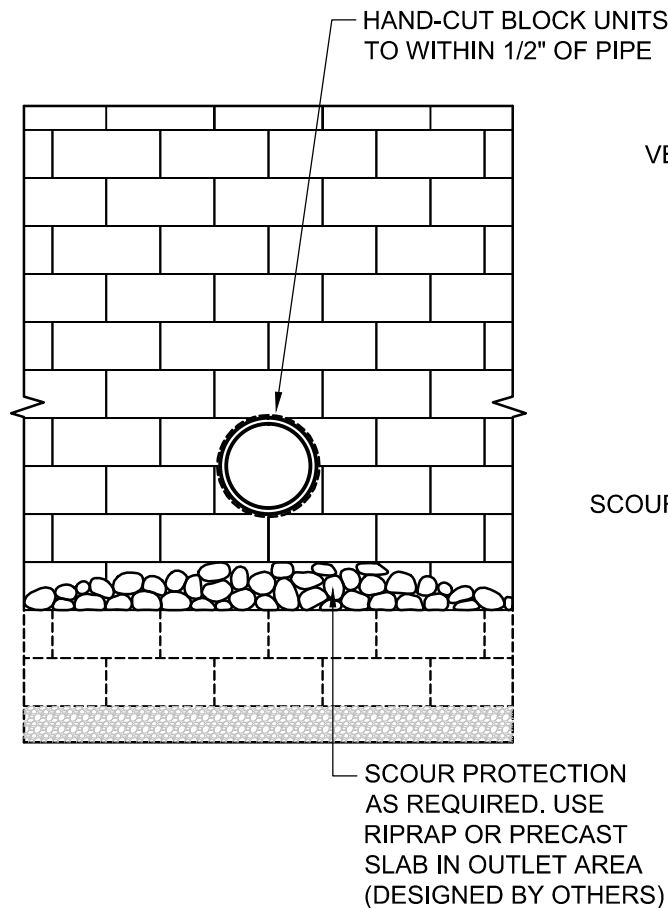
Vertica Pro[®] Retaining Wall System Typical Utilities Below Wall

Scale:
3/8" - 1'-0"

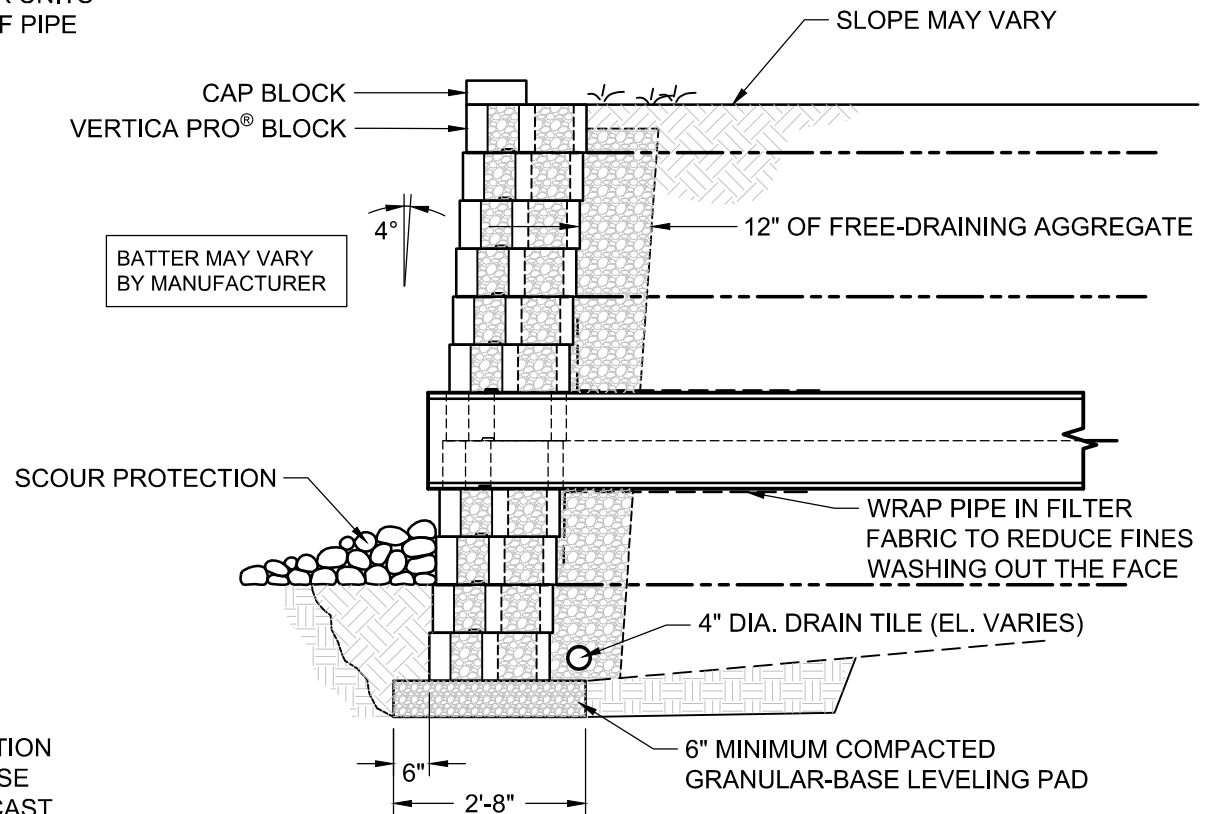
Date:

Drawn By:
LM

Drawing Number:
VEPR20



ELEVATION VIEW



SECTION VIEW



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

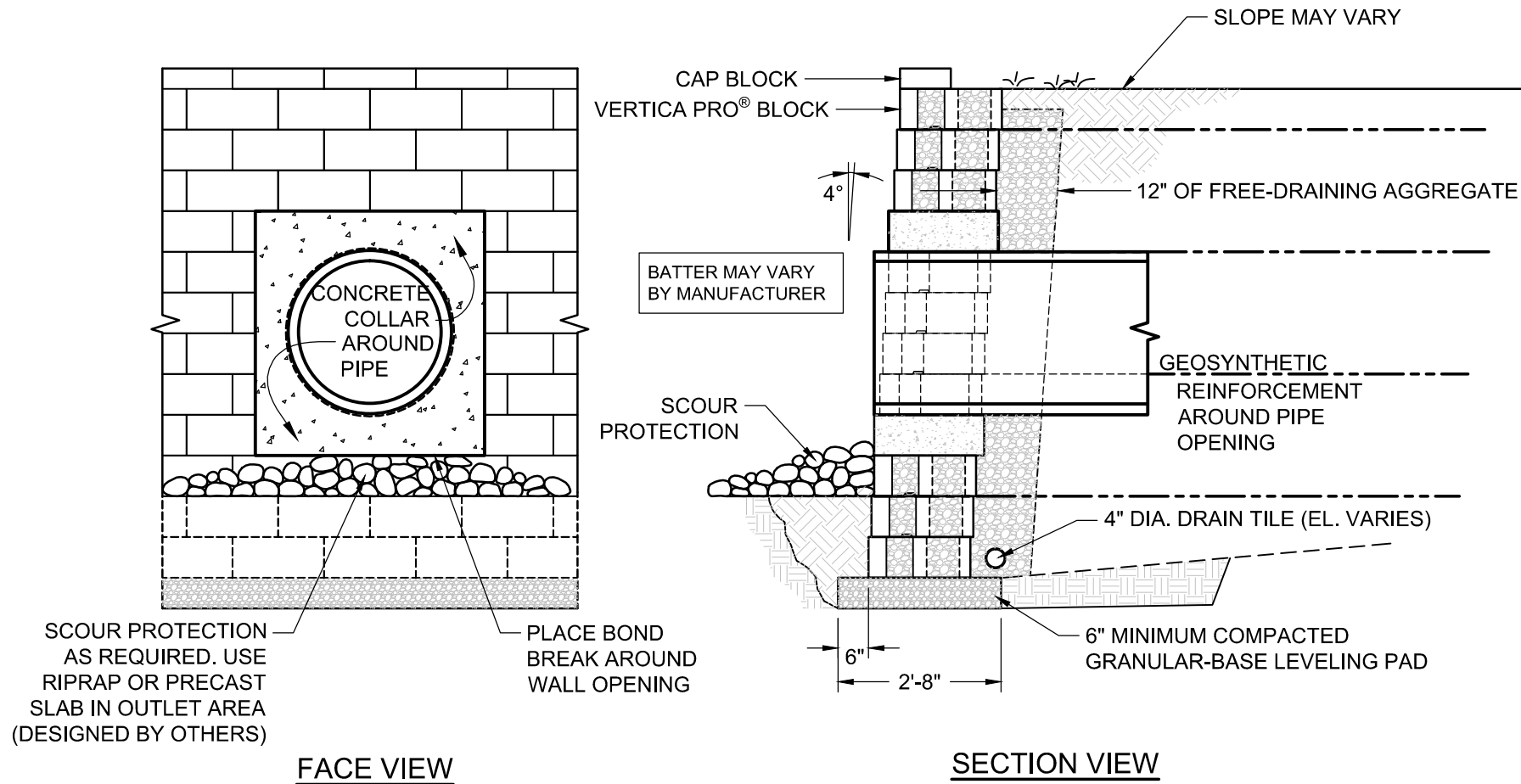
www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

Typical Small Utilities Through Wall

Scale:	Drawn By:
3/8" - 1'-0"	LM
Date:	Drawing Number:
---	VEPR21



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

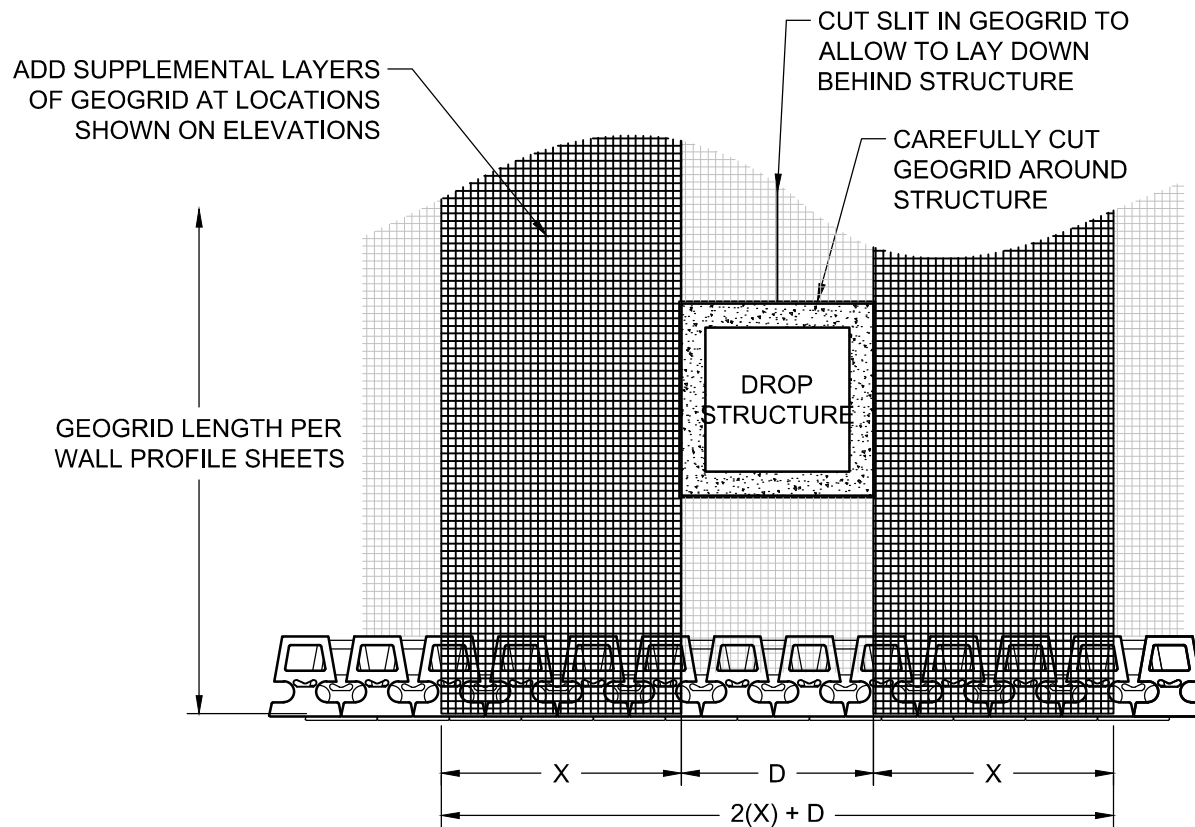
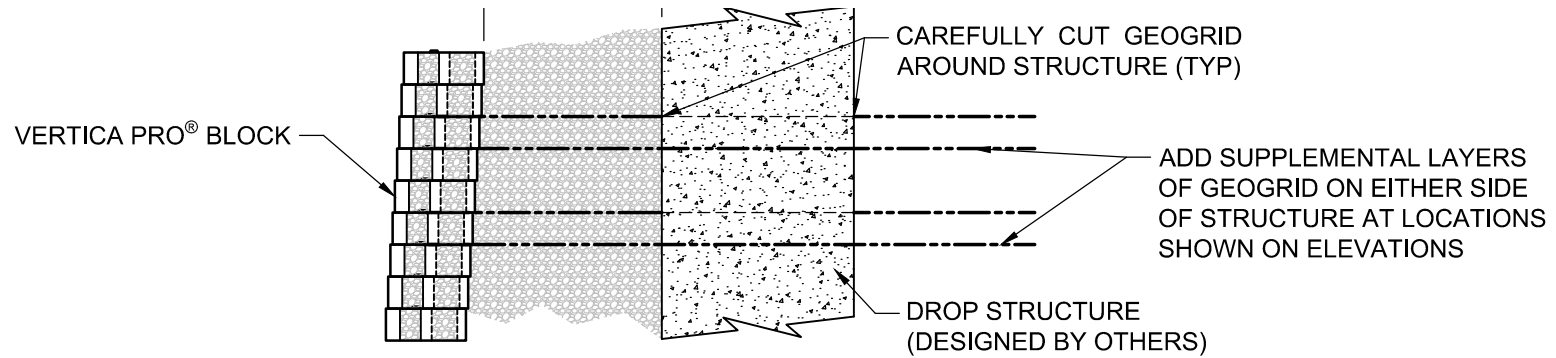
Vertica Pro® Retaining Wall System Typical Large Utilities Through Wall

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR22



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

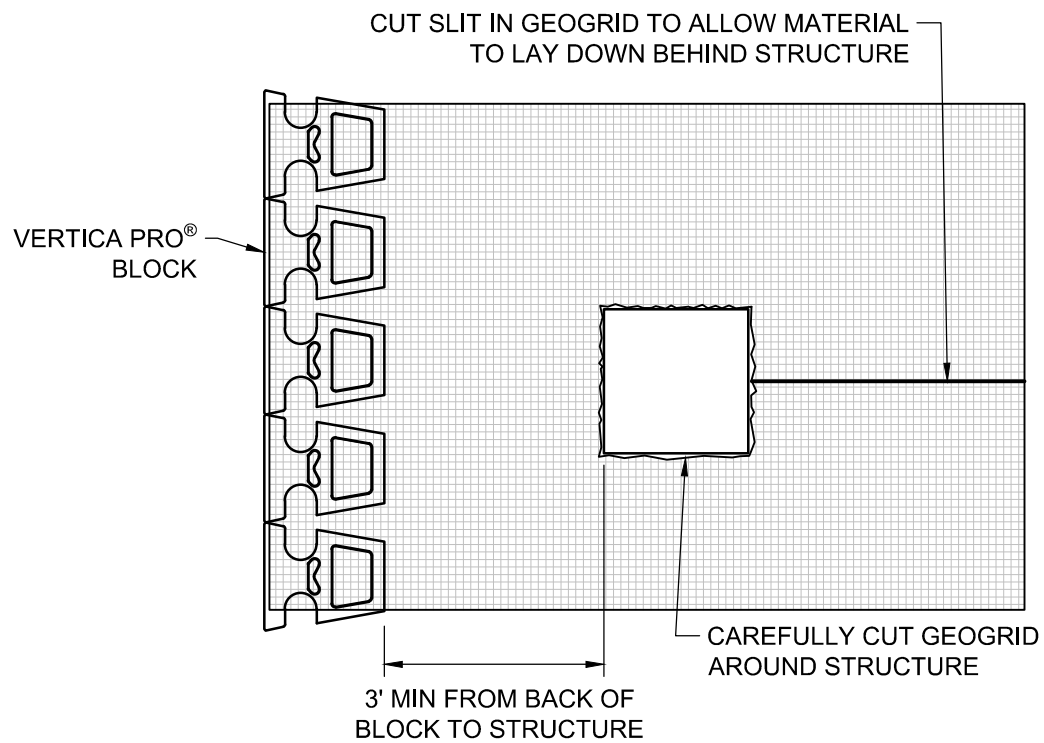
Typical Drop Structure Behind Wall

Scale:
1/4" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR23



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

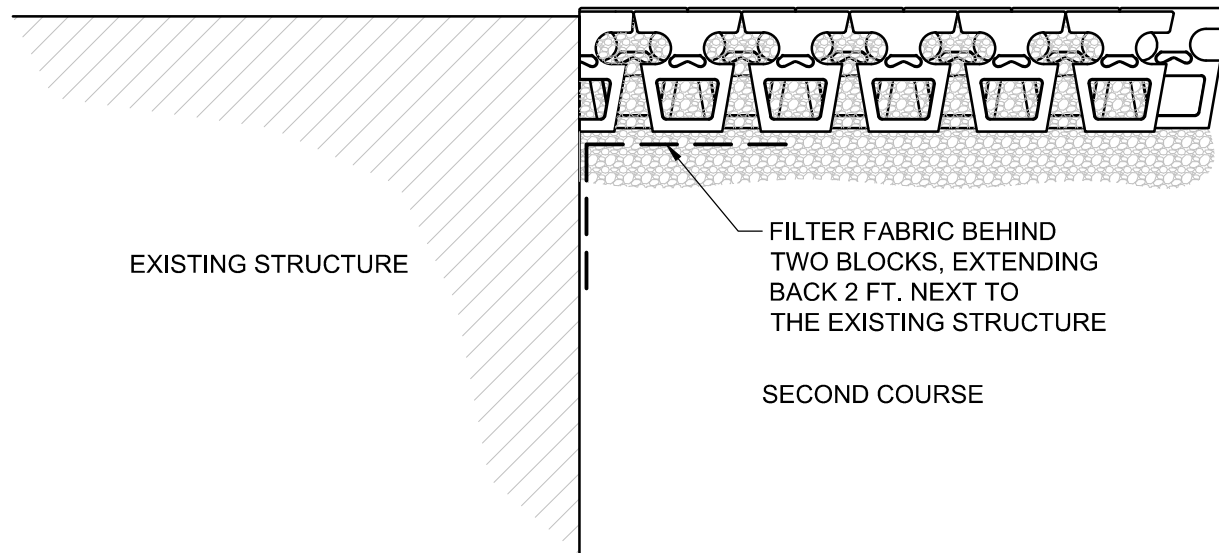
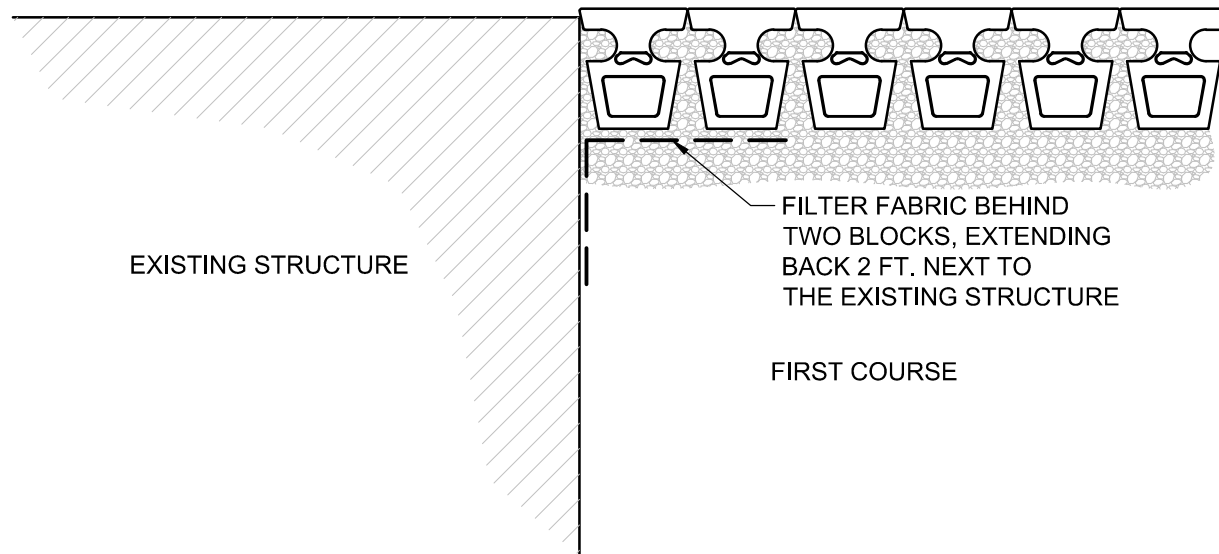
Typical Alternate Structure Behind Wall

Scale:
3/8" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR24



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

Typical Wall Abutting Structure

Scale:

3/8" = 1'-0"

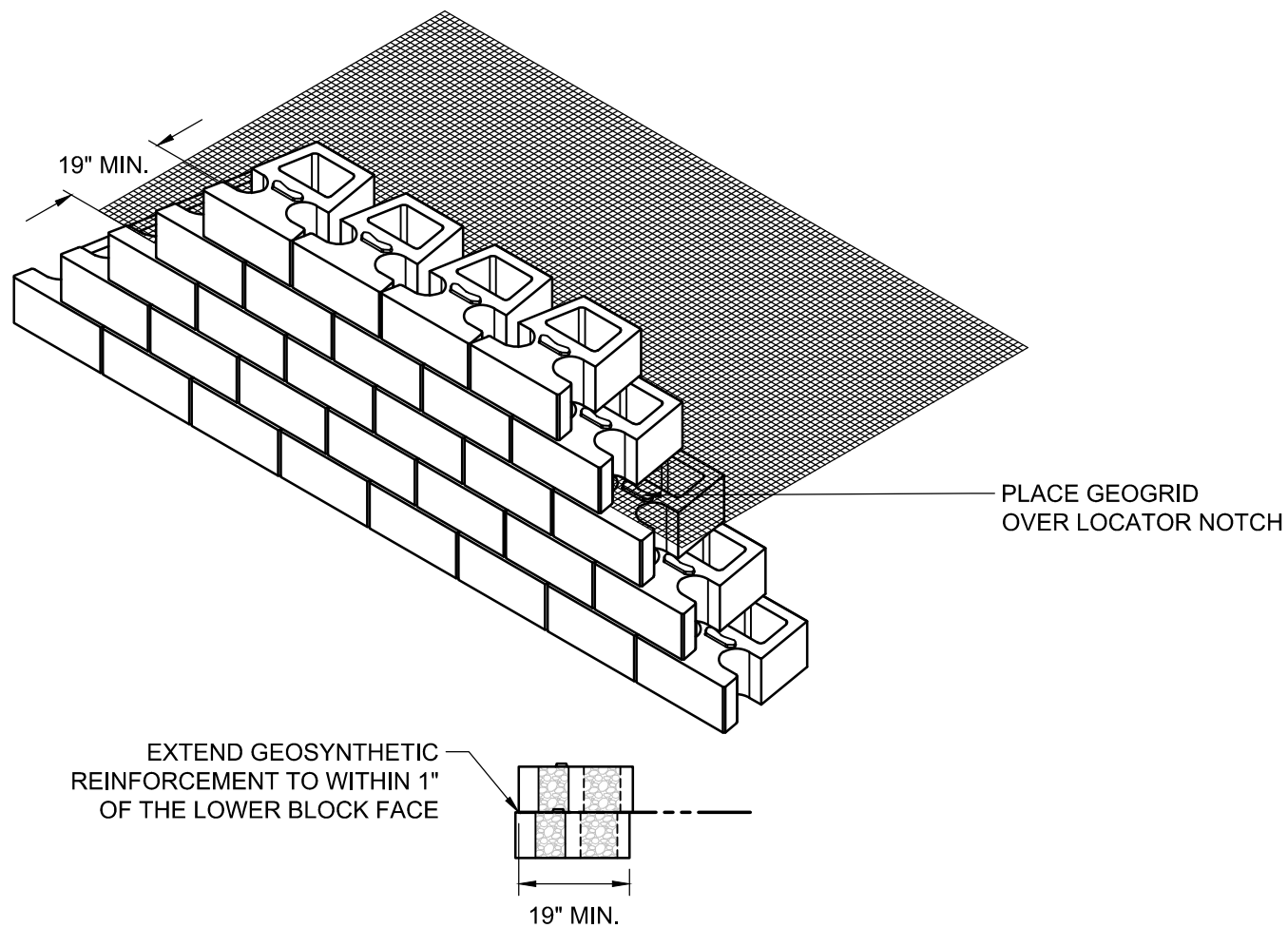
Date:

Drawn By:

LM

Drawing Number:

VEPR25



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

Typical Reinforcement Connection

Scale:
3/8" - 1'-0"

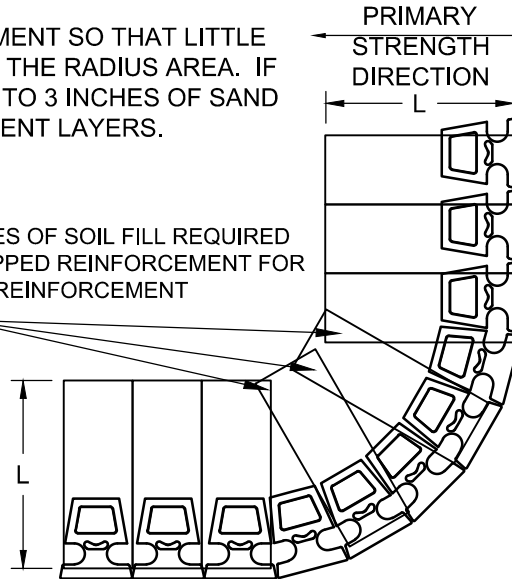
Drawn By:
LM

Date:
1/20/2016

Drawing Number:
VEPR26

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

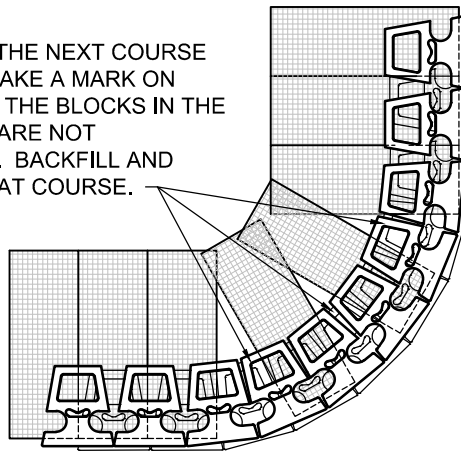
PLACE 2 TO 3 INCHES OF SOIL FILL REQUIRED BETWEEN OVERLAPPED REINFORCEMENT FOR PROPER SOIL AND REINFORCEMENT INTERACTION.



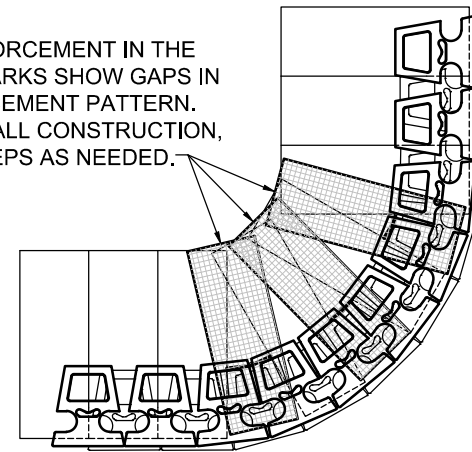
NOTES:

1. DRAINAGE AGGREGATE NOT SHOWN FOR CLARITY.
2. MINIMUM RADIUS 5'-6" TO FACE

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.



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.



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

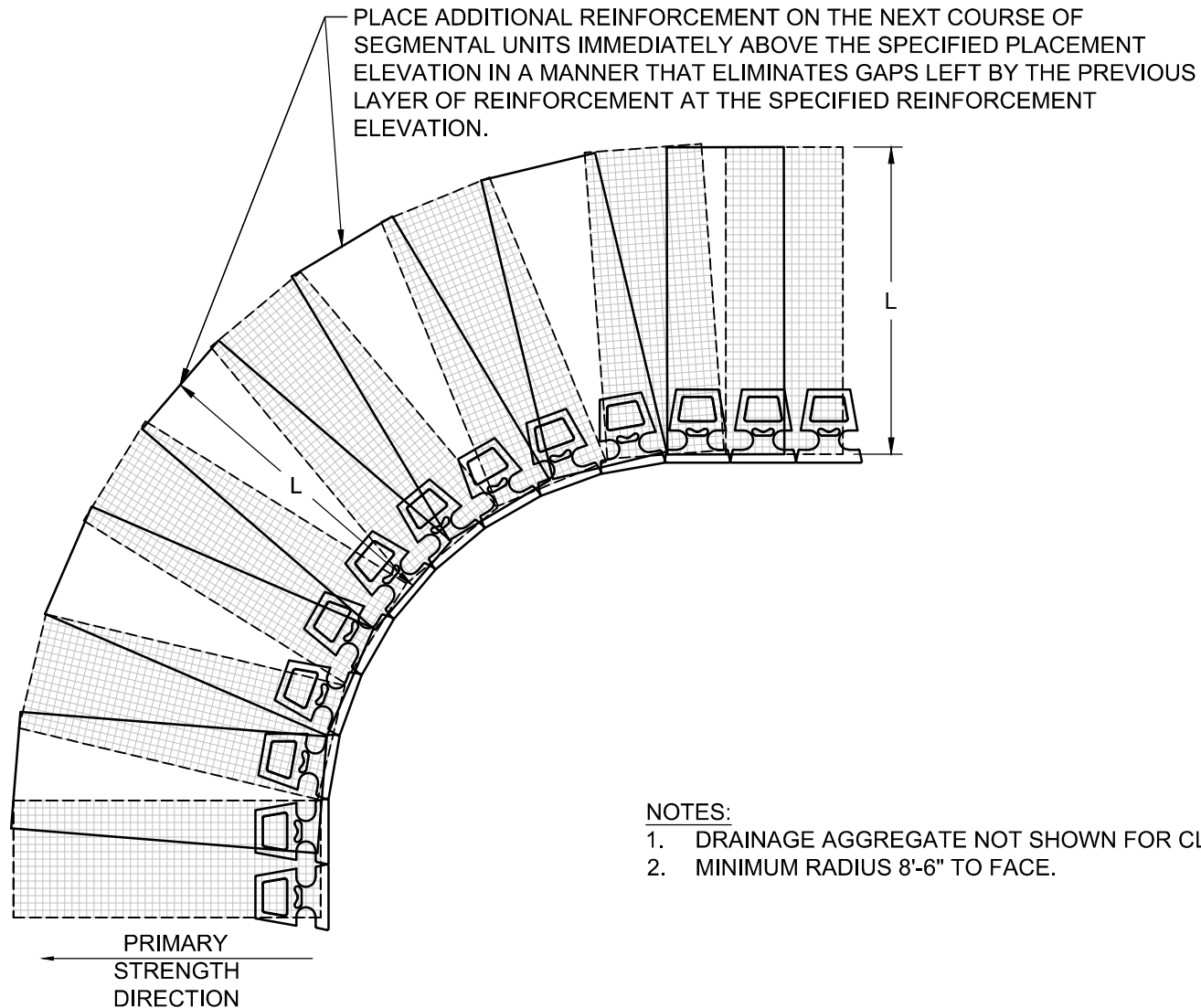
Vertica Pro[®] Retaining Wall System Typical Outside Curves

Scale:
1/4" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR27



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

Typical Inside Curves

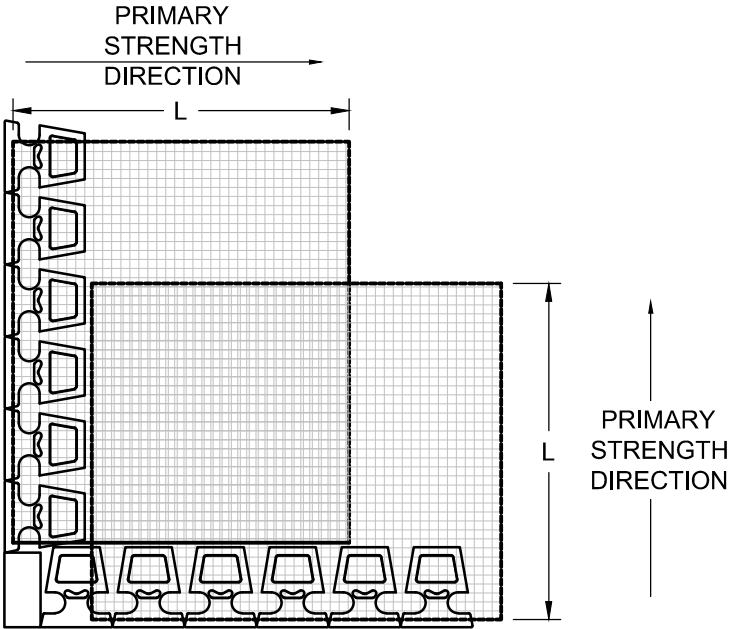
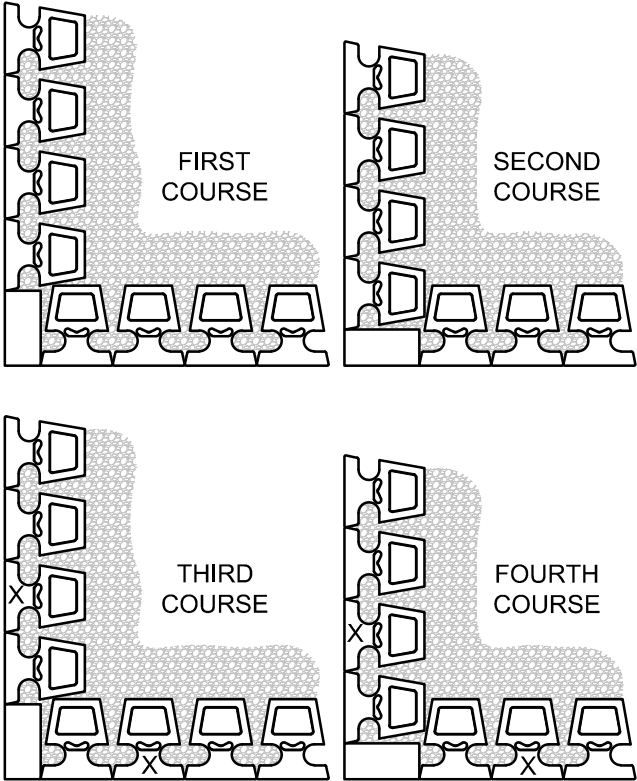
Scale:
1/4" = 1'-0"

Date:

Drawn By:
LM

Drawing Number:
VEPR28

NOTE:
USE ADHESIVE ON EXPOSED PARTIAL UNITS
CUT UNITS (X) TO MAINTAIN RUNNING BOND



NOTE:
IN THE "CROSSOVER AREA" OF REINFORCEMENT, ONE OF THE LAYERS OF REINFORCEMENT SHOULD BE LOWERED OR RAISED ONE COURSE TO ALLOW PLACEMENT OF THE REINFORCEMENT WITH THE PRIMARY REINFORCEMENT STRENGTH DIRECTION PROPERLY ORIENTED. THE REINFORCEMENT SHOULD NOT EXTEND INTO THE SEGMENTAL RETAINING WALL UNITS ON THE RETURN LEG OF THE 90-DEGREE CORNER.



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro[®] Retaining Wall System

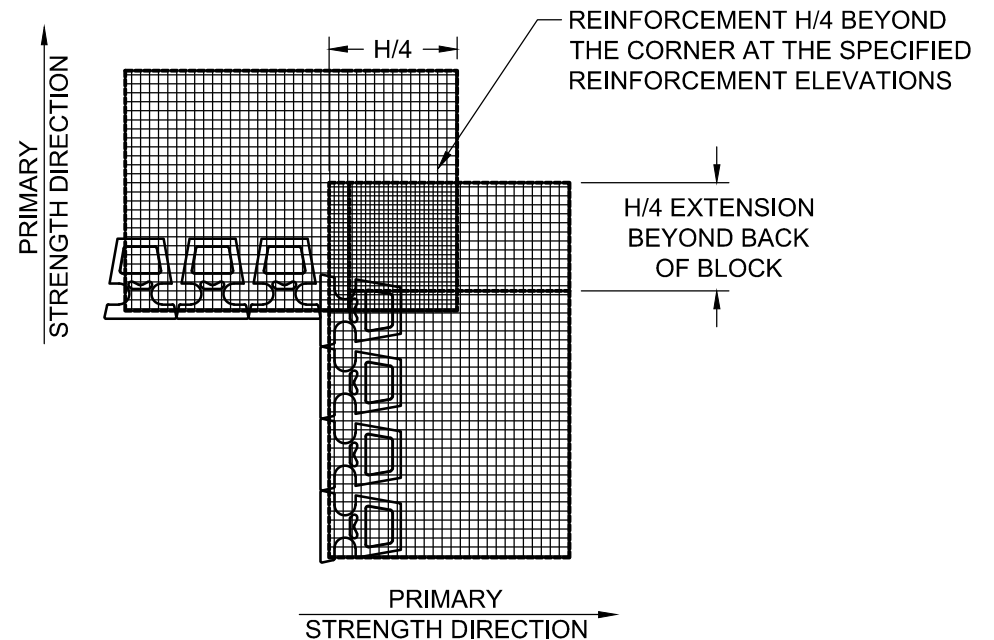
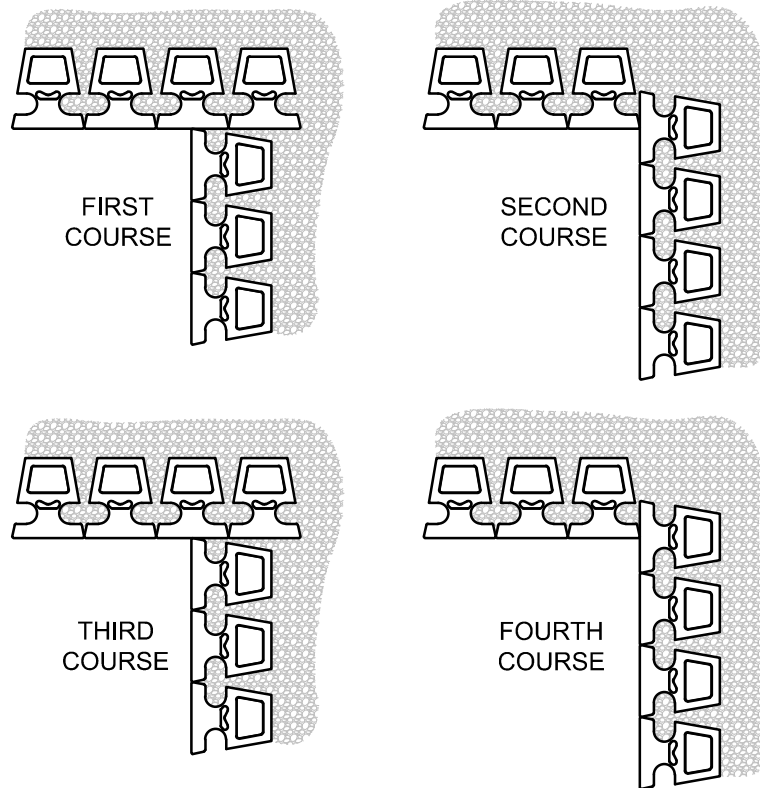
Typical Outside Corners

Scale:
1/4" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR29



NOTE:
PLACEMENT OF REINFORCEMENT
EXTENSION ON SPECIFIED
REINFORCEMENT ELEVATIONS.



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

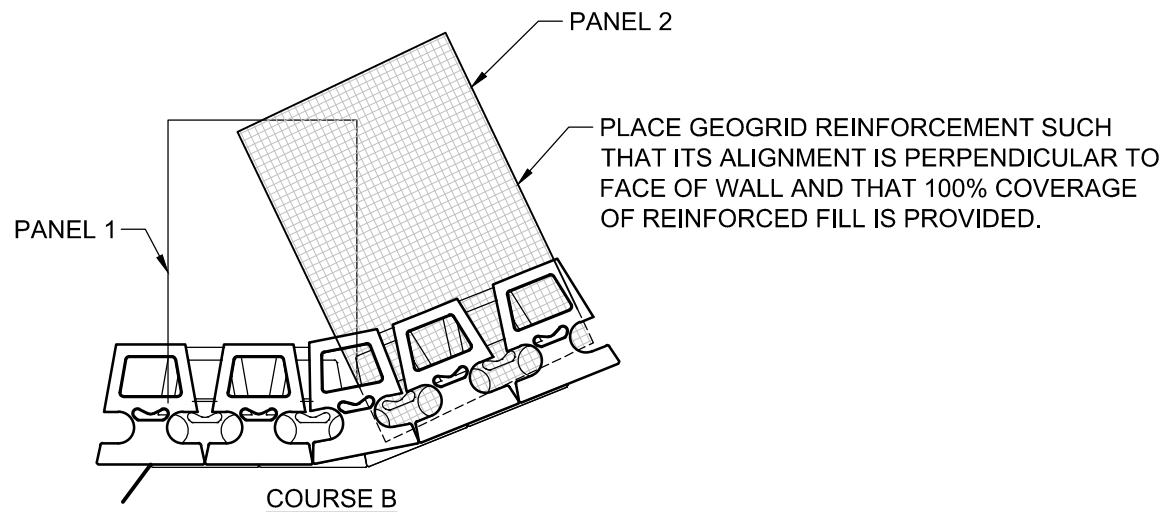
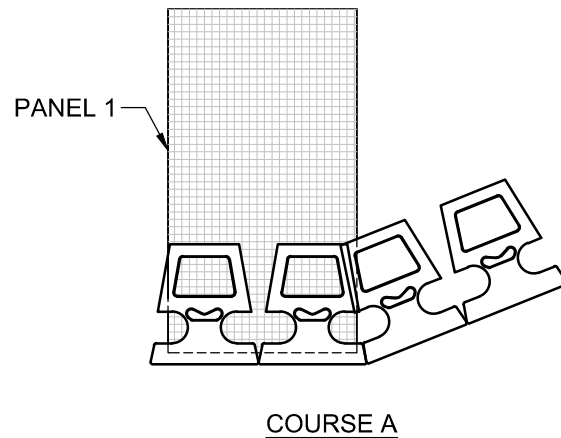
Typical Inside Corners

Scale:
1/4" = 1'-0"

Drawn By:
LM

Date:

Drawing Number:
VEPR30



NOTES:

1. ALTERNATE COURSES "A" & "B" AS NEEDED TO FULL HEIGHT OF WALL.
2. MODIFY UNITS AS NEEDED TO MAINTAIN RUNNING BOND.
3. ADHERE ALL PARTIAL UNITS WITH CONSTRUCTION GRADE ADHESIVE.
4. ADJUST PLACEMENT IN FIELD TO ACHIEVE DESIRED ANGLE
5. FREE-DRAINING AGGREGATE (NOT SHOWN) TO SPAN 10 FT. ALONG THE WALL FACE AND TO THE BACK OF THE REINFORCED ZONE



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

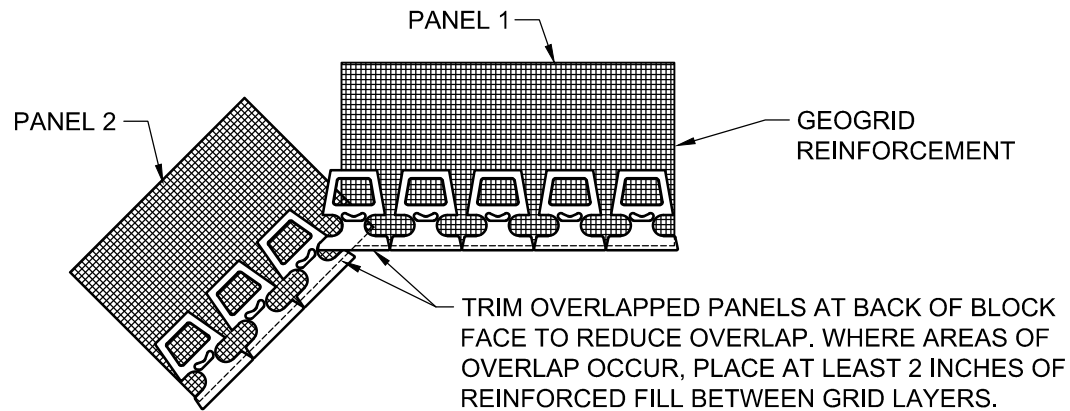
Typical Outside Angles

Scale:
3/8" = 1'-0"

Drawn By:
LM

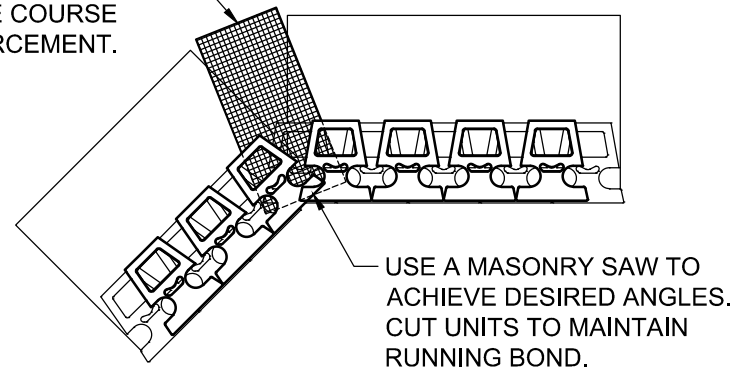
Date:

Drawing Number:
VEPR31



COURSE A

PLACE ADDITIONAL PANEL AT CORNER TO PROVIDE 100% GEOGRID COVERAGE OF REINFORCED FILL. THIS PANEL SHOULD BE PLACED ONE COURSE ABOVE MAIN REINFORCEMENT.



COURSE B

NOTE:
FREE-DRAINING AGGREGATE
(NOT SHOWN) TO SPAN 10 FT.
ALONG THE WALL FACE AND TO
THE BACK OF THE REINFORCED
ZONE



This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

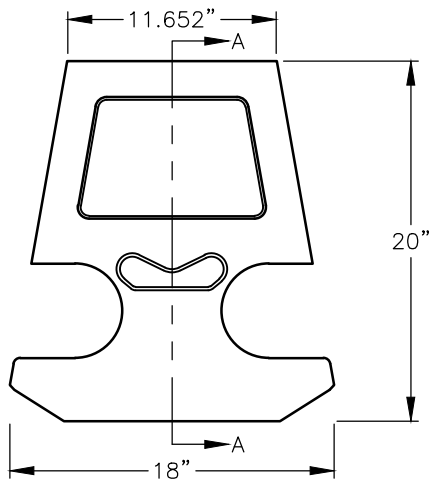
www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

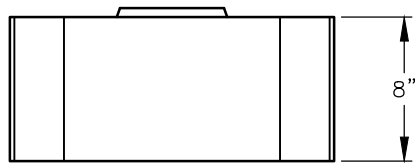
Vertica Pro[®] Retaining Wall System

Typical Inside Angles

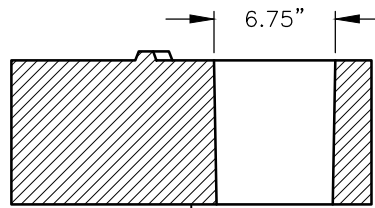
Scale:	Drawn By:
1/4" - 1'-0"	LM
Date:	Drawing Number:
---	VEPR32



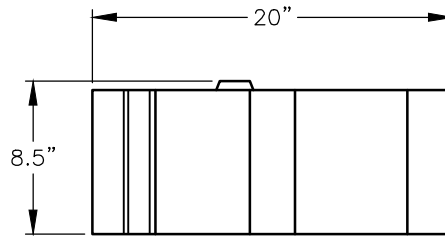
TOP VIEW



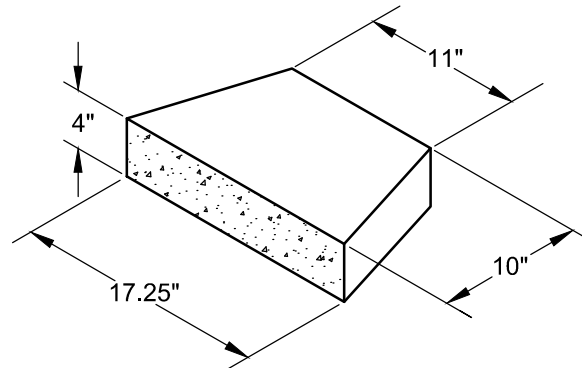
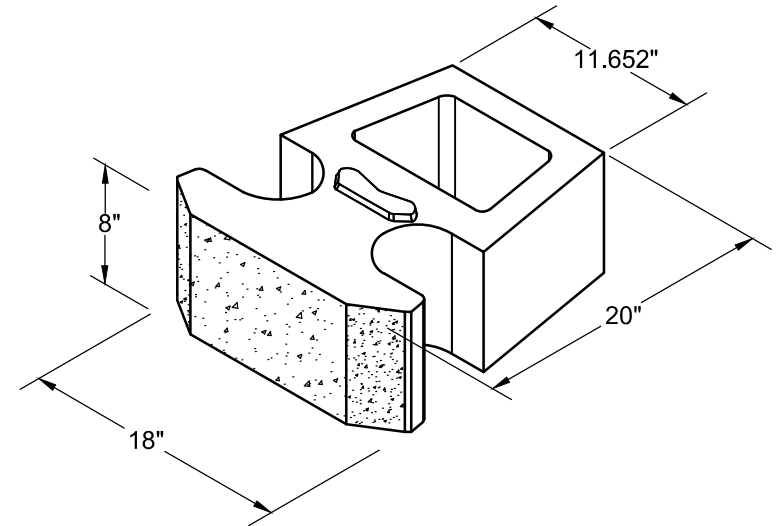
FRONT VIEW



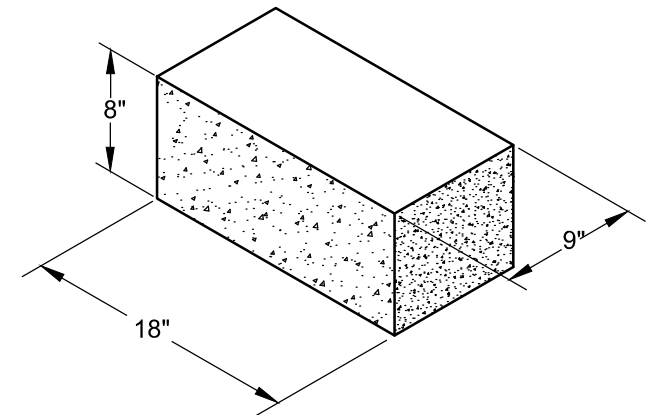
SECTION A-A



SIDE VIEW



CAP UNIT



CORNER UNIT



ANCHOR
DIAMOND™

This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

Vertica Pro® Retaining Wall System

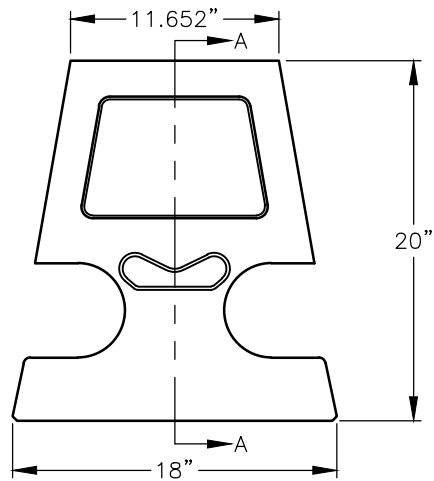
Beveled Unit

Scale:
3/8" = 1'-0"

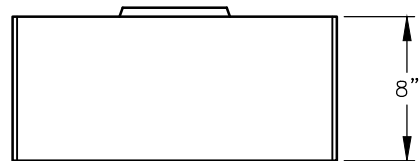
Drawn By:
LM

Date:
1/20/2016

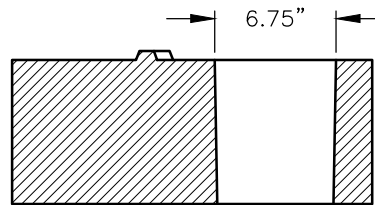
Drawing Number:
VEPR33



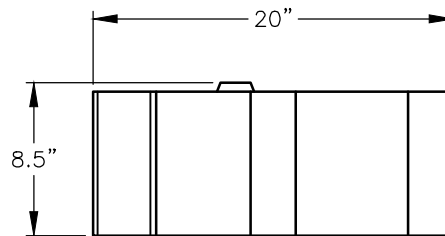
TOP VIEW



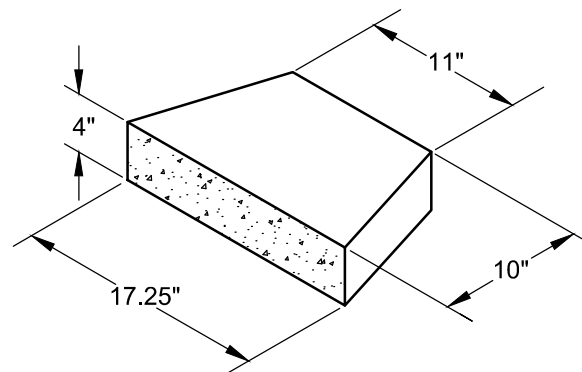
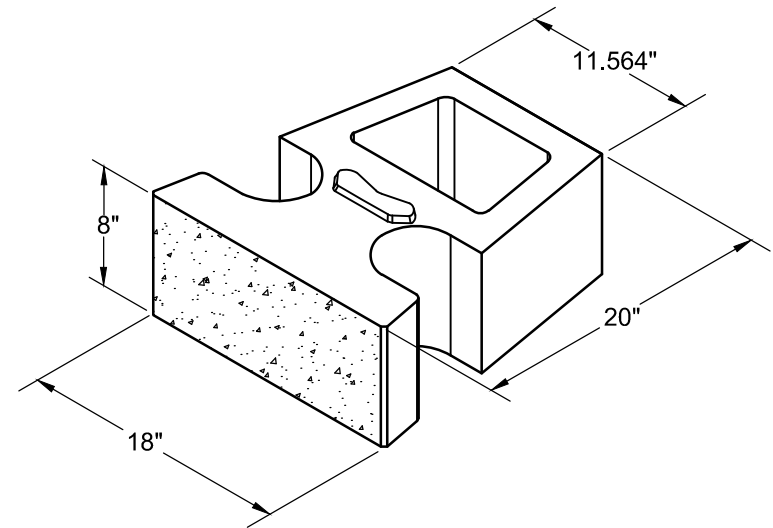
FRONT VIEW



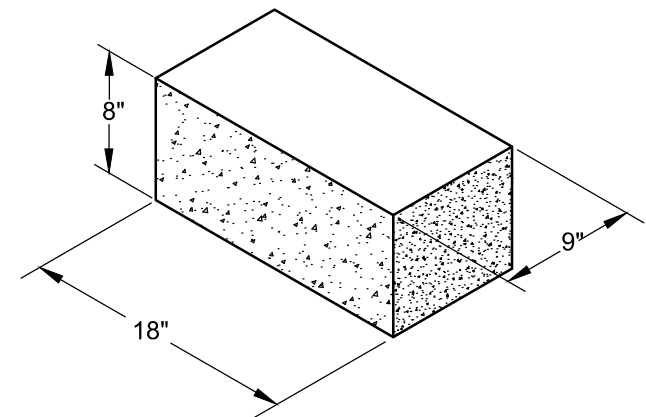
SECTION A-A



SIDE VIEW



CAP UNIT



CORNER UNIT



© 2024 ANCHOR Engineering, LLC® and © 2024 ANCHOR DIAMOND®

This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

www.anchordiamond.com

Vertica Pro® Retaining Wall System

Straight Unit

Scale:
3/8" - 1'-0"

Date:
1/20/2016

Drawn By:
LM

Drawing Number:
VEPR34