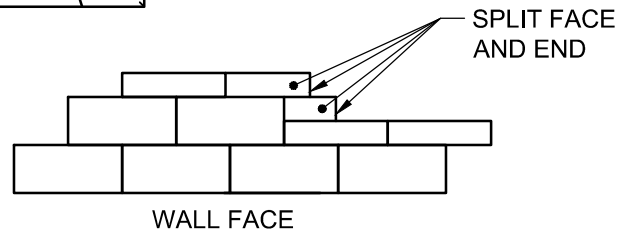
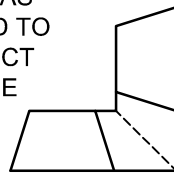


SAW CUT AS
REQUIRED TO
CONSTRUCT
90 DEGREE
MITERED
CORNER



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.



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Vertica® Retaining Wall System

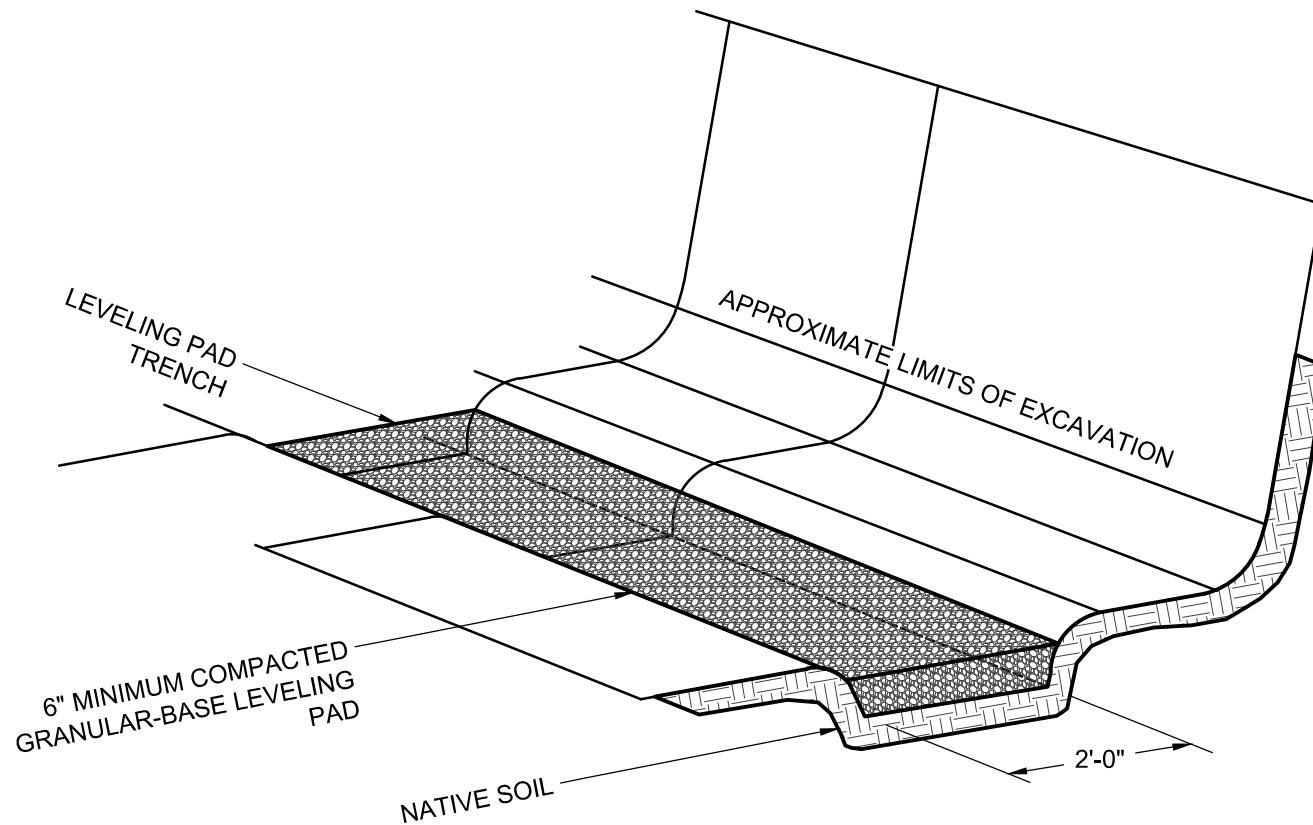
Capping Detail

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT01



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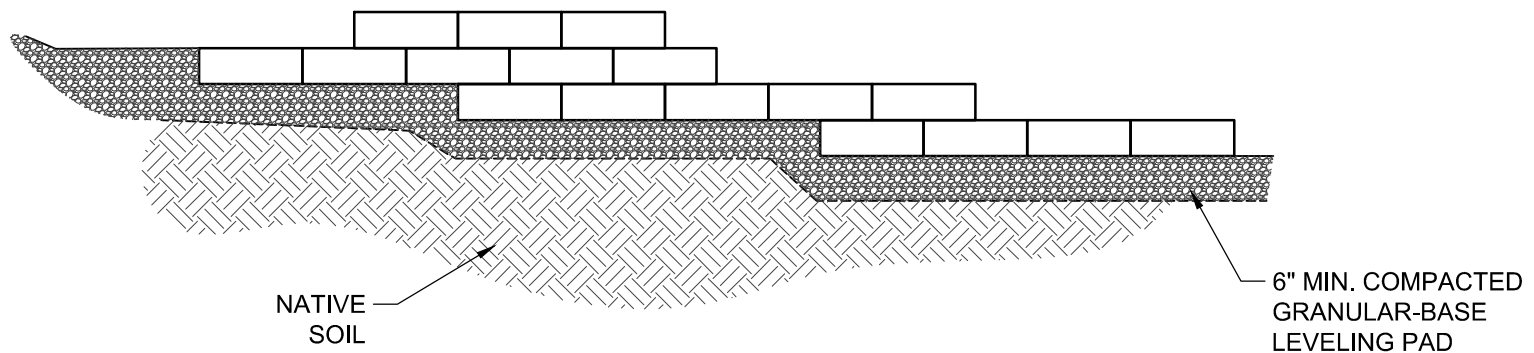
Base Preparation Detail

Scale:
 $\frac{3}{8}" = 1'-0"$

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT02



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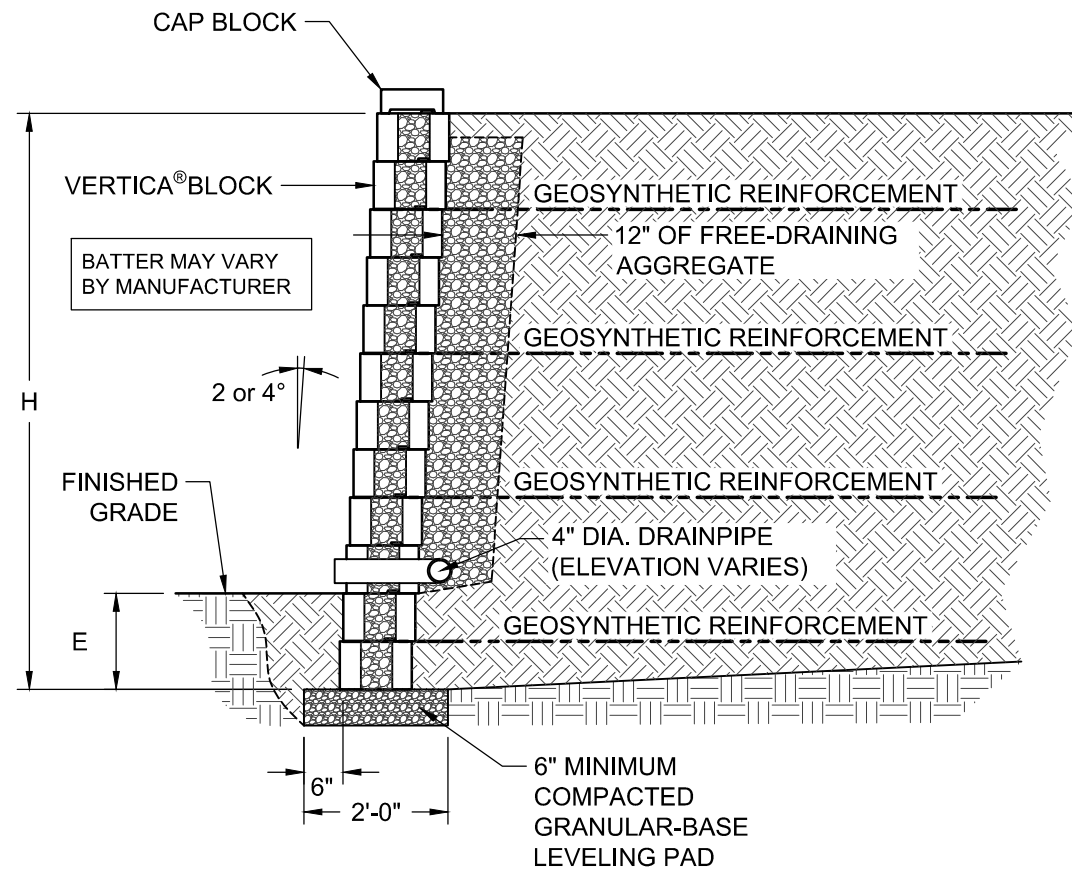
Typical Base Step-Up Detail

Scale:
 $\frac{3}{8}" = 1'-0"$

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT03



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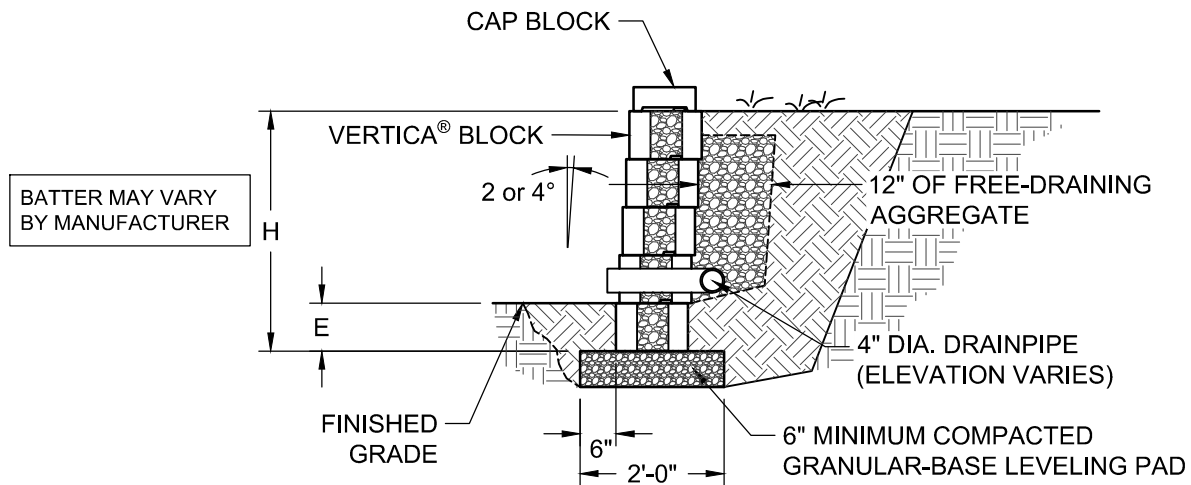
Typical Reinforced Cross Section

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT04



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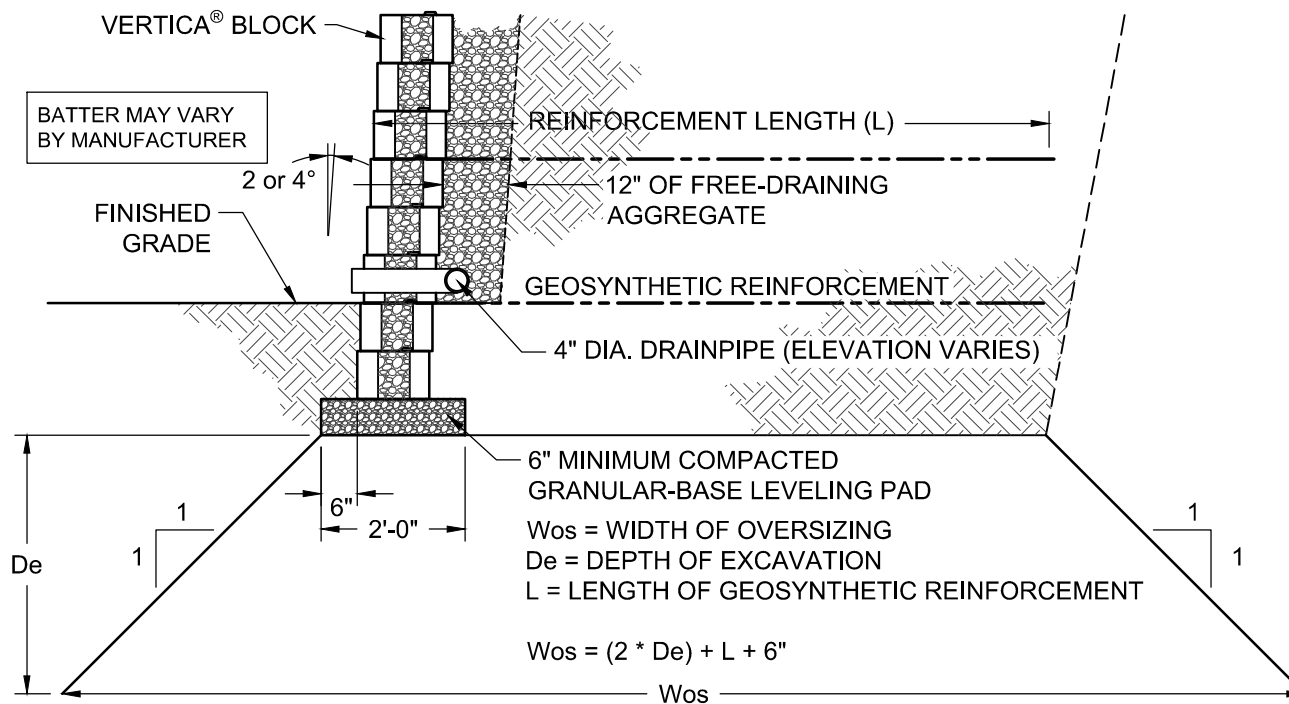
Typical Gravity Cross Section

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT05



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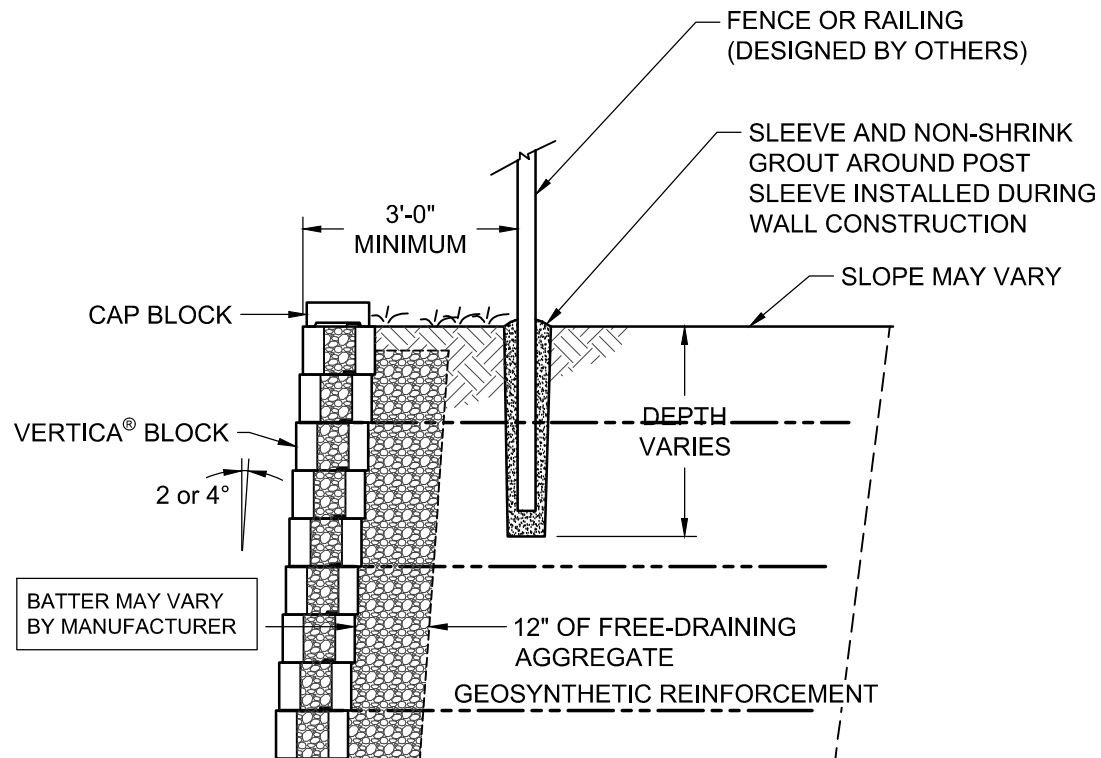
Typical Excavation Oversizing

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT06



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Vertica® Straight Face Retaining Wall System

Typical Fence Cross Section

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

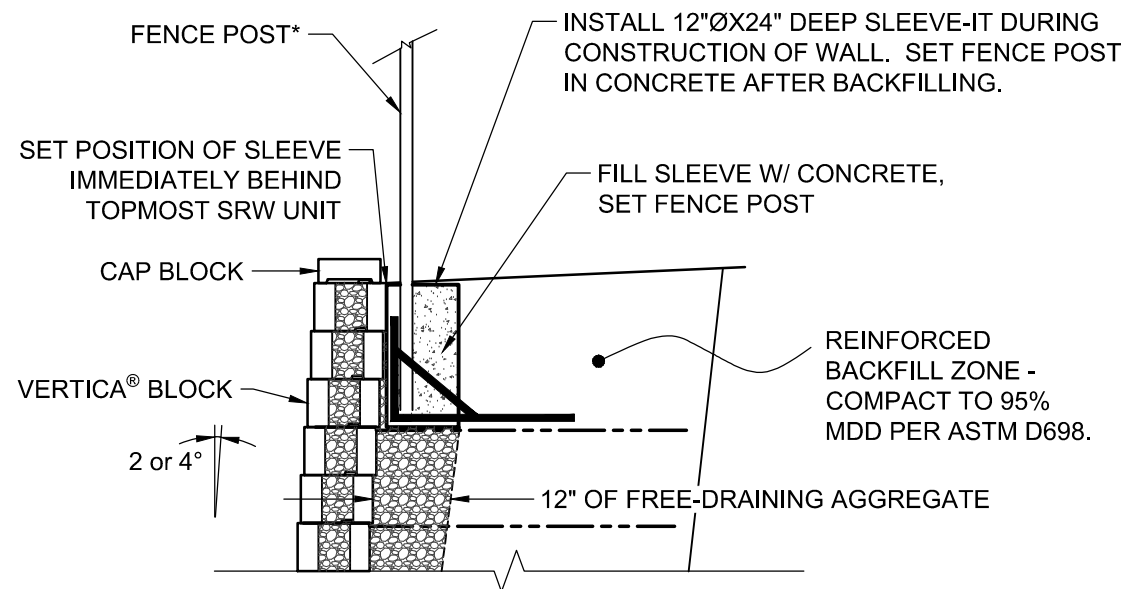
Drawn by:
JB

Date:
10/5/2023

Drawing number:
VT07

THE SLEEVE-IT PRODUCT SHALL BE EVENLY SPACED.
 USE OF THE SLEEVE-IT SYSTEM IS LIMITED TO THE FOLLOWING FENCING APPLICATIONS WITHOUT CONSIDERATION OF WIND LOAD:

- 8-FOOT HIGH AND UNDER CHAIN LINK FENCES
- 6-FOOT HIGH AND UNDER WOOD FENCE WITH GAPS BETWEEN BOARDS
- 6-FOOT HIGH AND UNDER BALUSTRATDE PVC, STEEL, ALUMINUM, OR WROUGHT IRON FENCES



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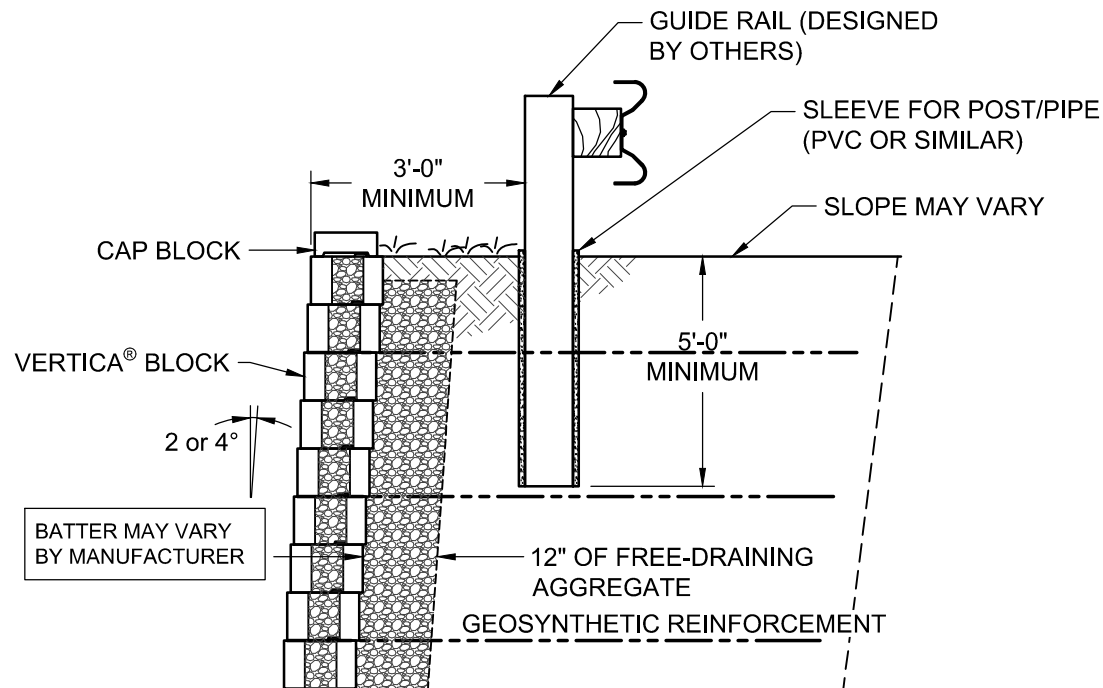
Fence Section with Sleeve-It

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT08



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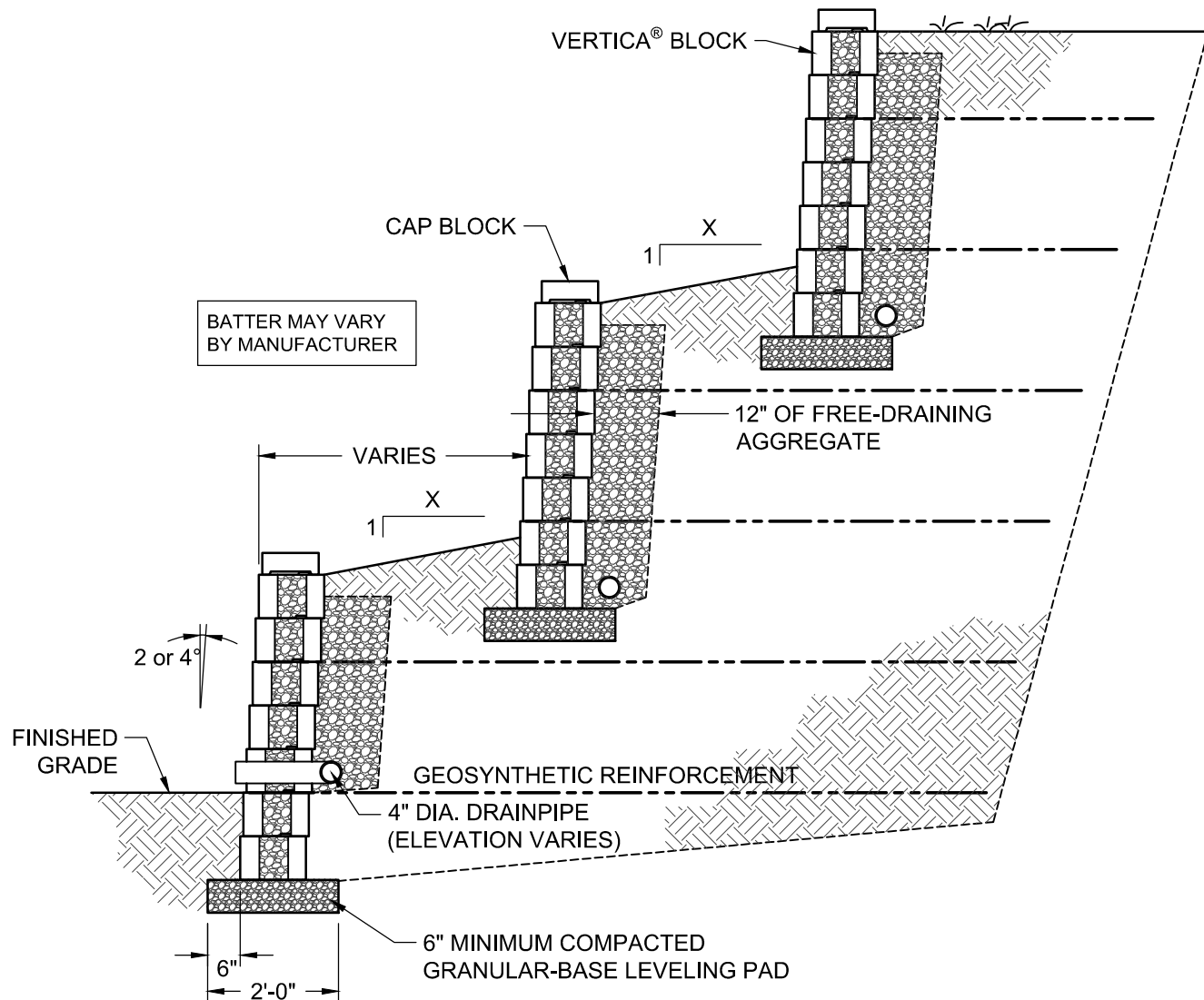
Typical Guide Rail Section

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT09



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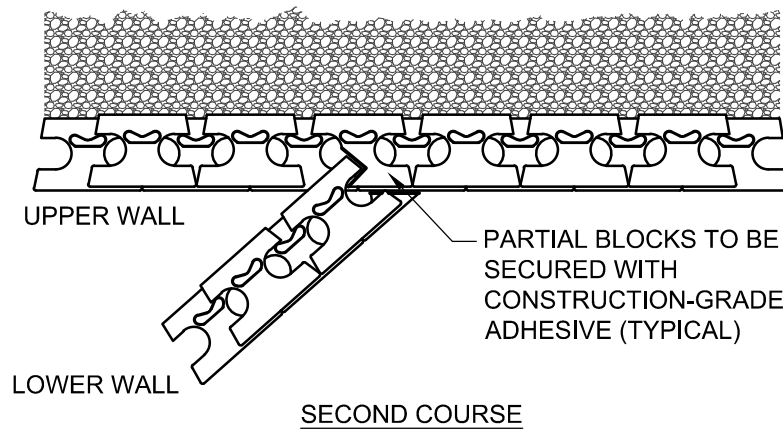
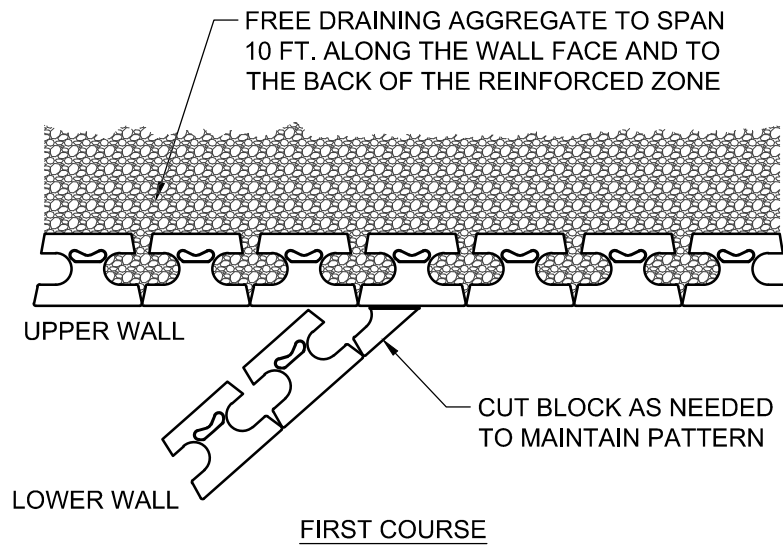
Typical Terraced Wall Cross Section

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT10



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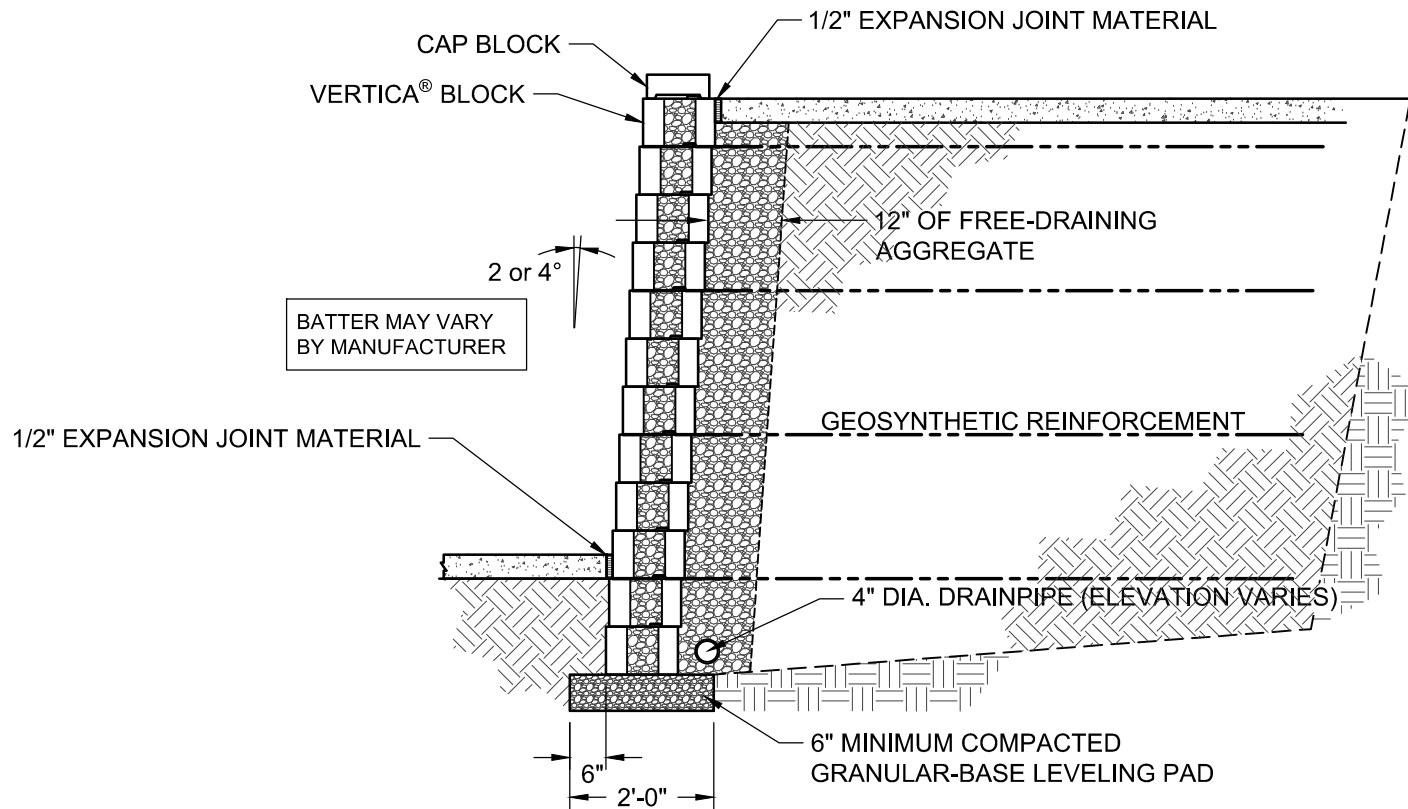
Typical Terraced Wall Connection Detail

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT11



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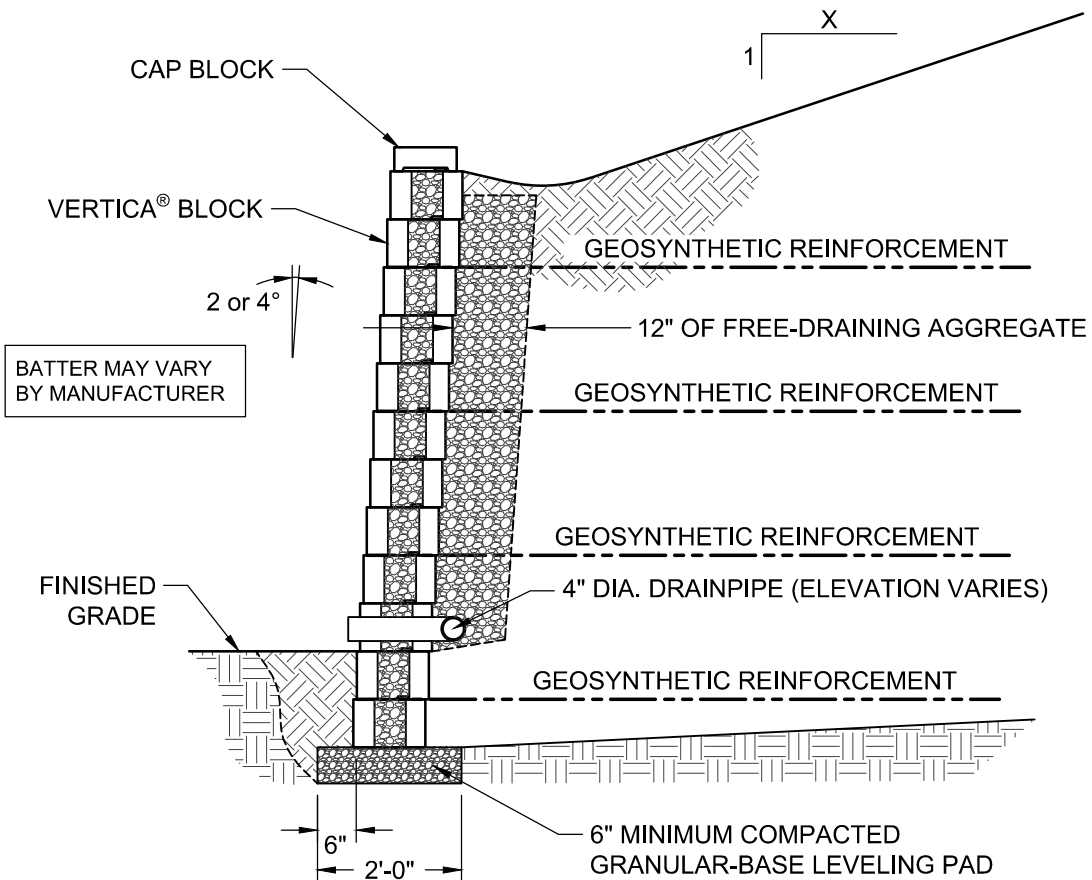
Reinforced Cross Section With Sidewalk

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT12



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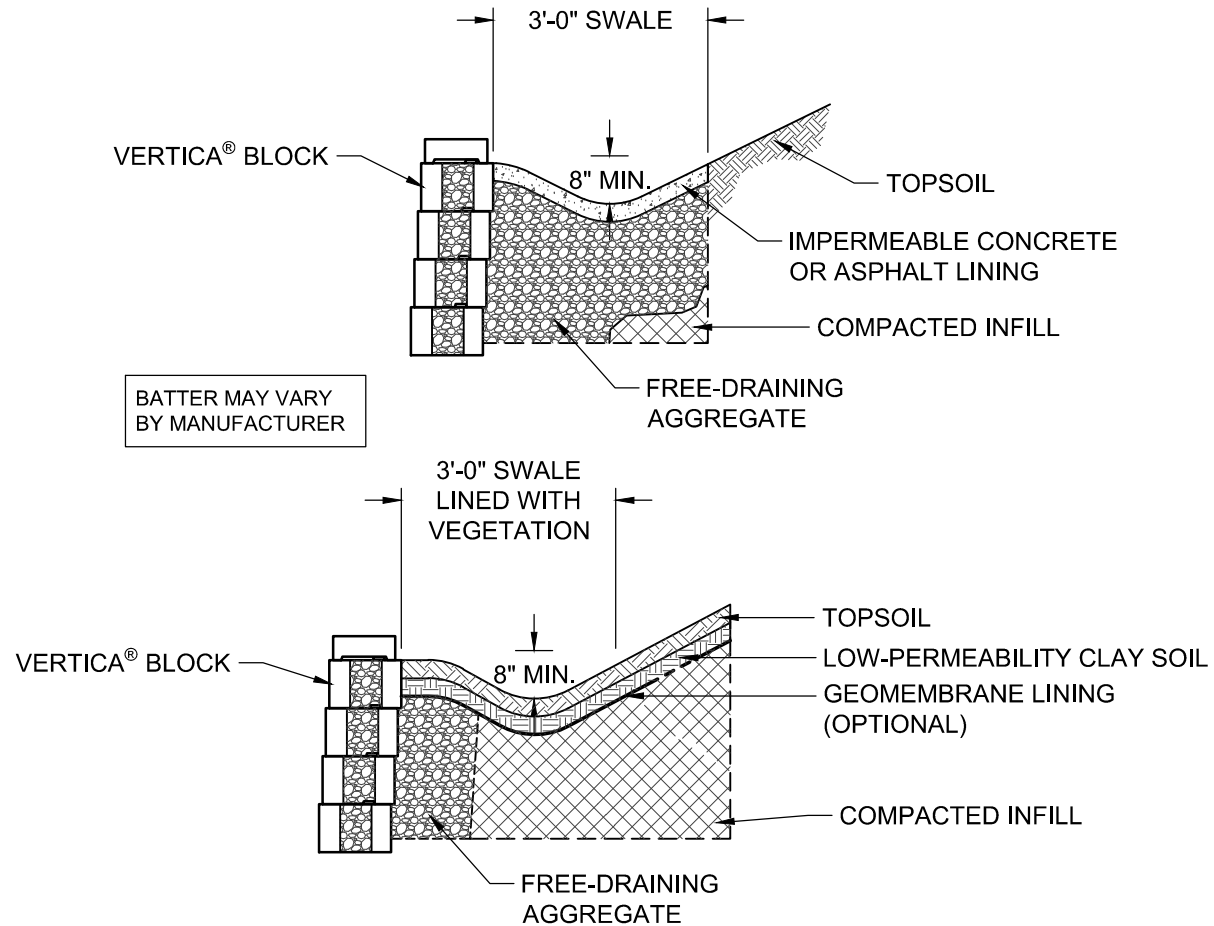
Reinforced Cross Section With Slope

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

Drawn by:
 DA

Date:
 10/2/23

Drawing number:
 VT13



REFER TO THE NCMA DESIGN MANUAL FOR ADDITIONAL DETAILS



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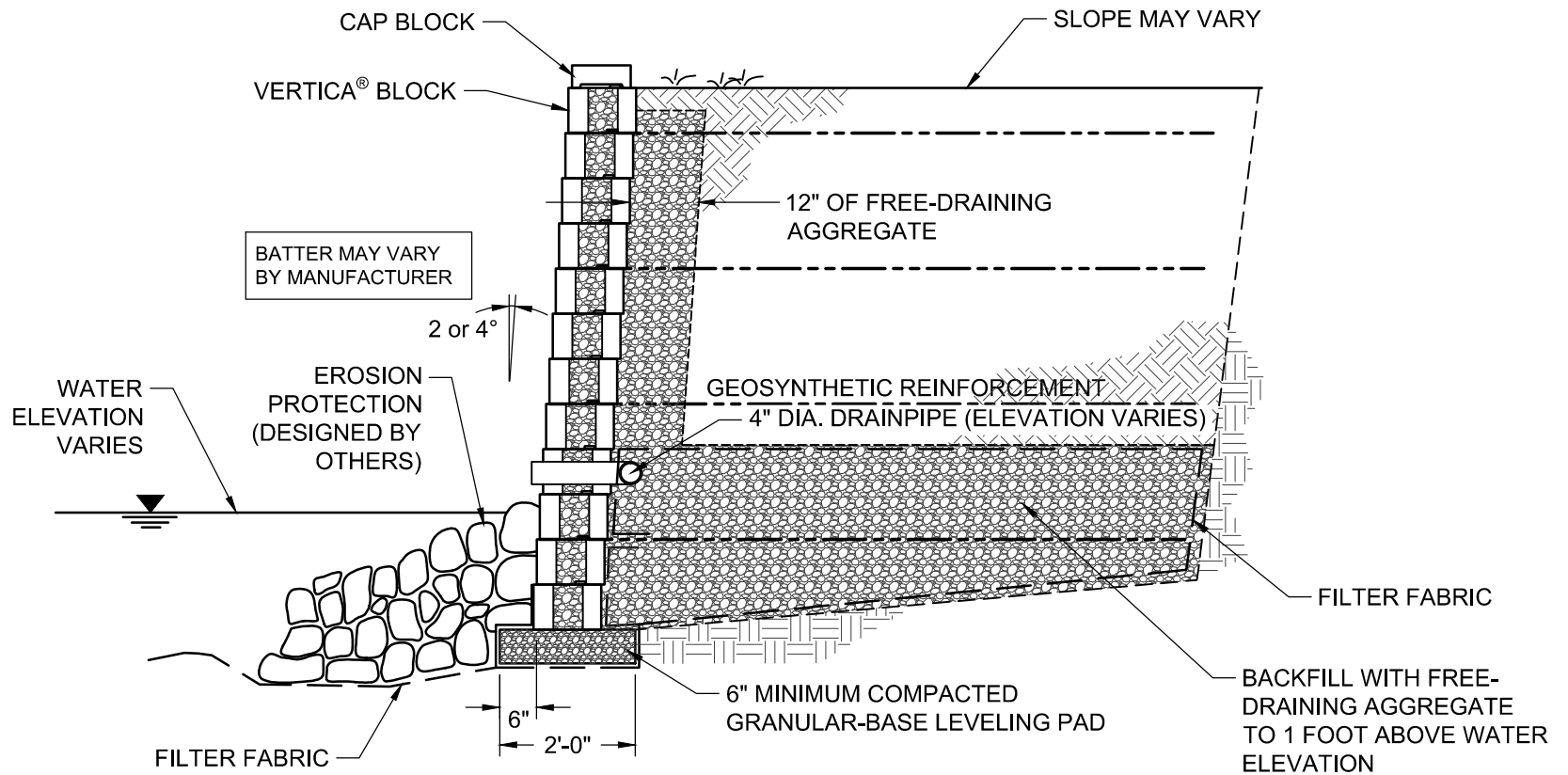
Typical Drainage Swale Cross Sections

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

Drawn by:
 DA

Date:
 10/2/23

Drawing number:
 VT14



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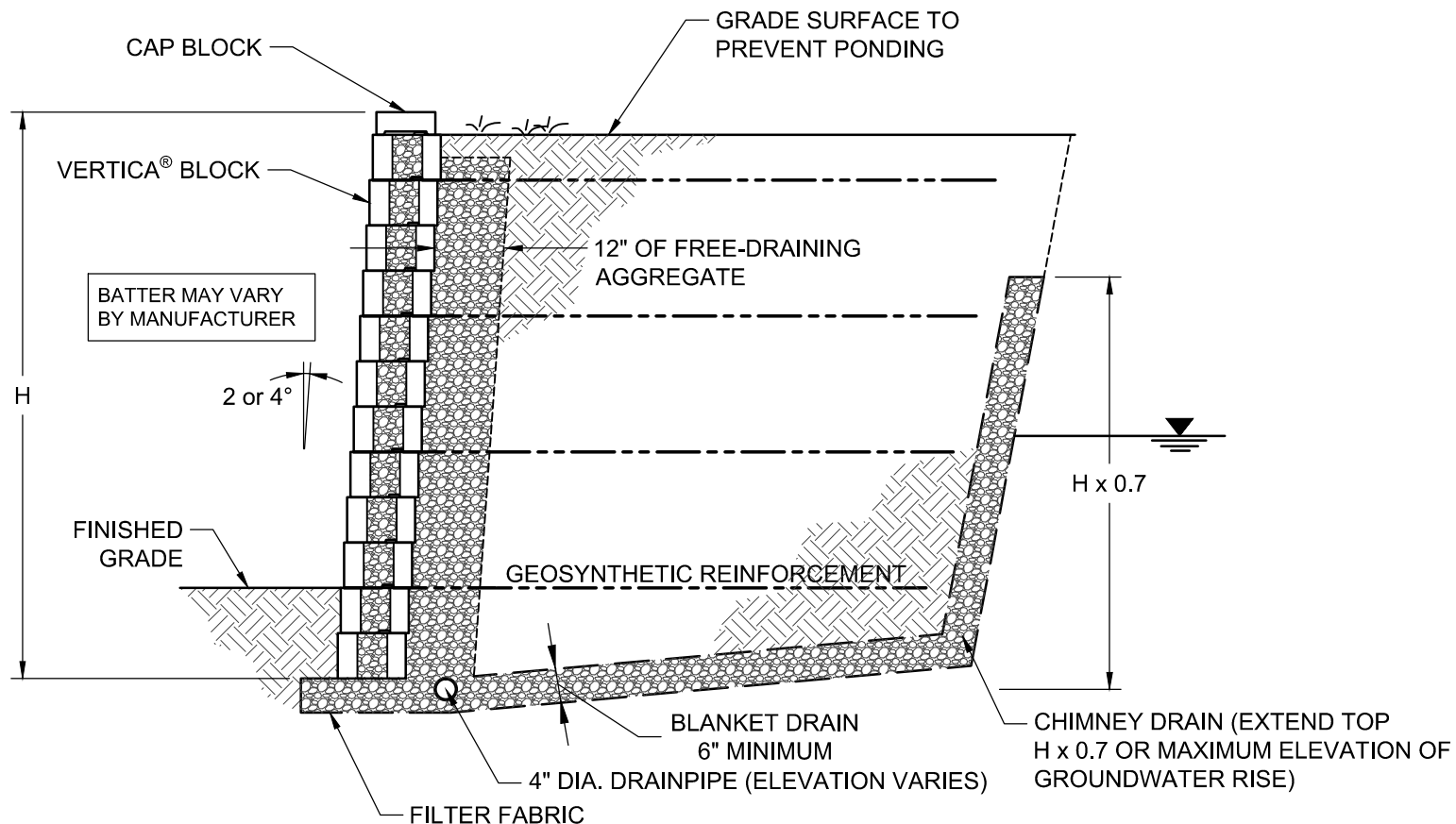
Typical Shoreline Cross Section

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT15



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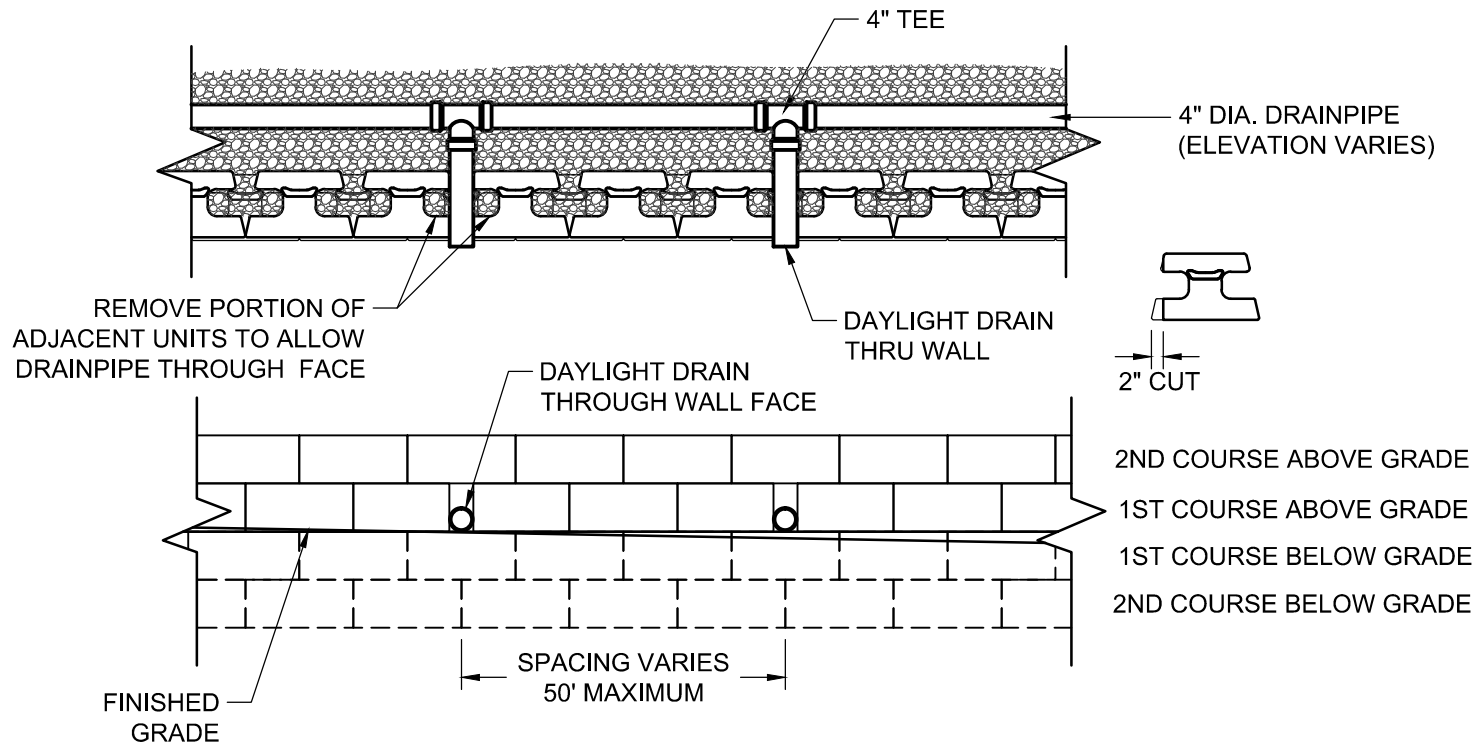
Typical Groundwater Intrusion Cross Section

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT16



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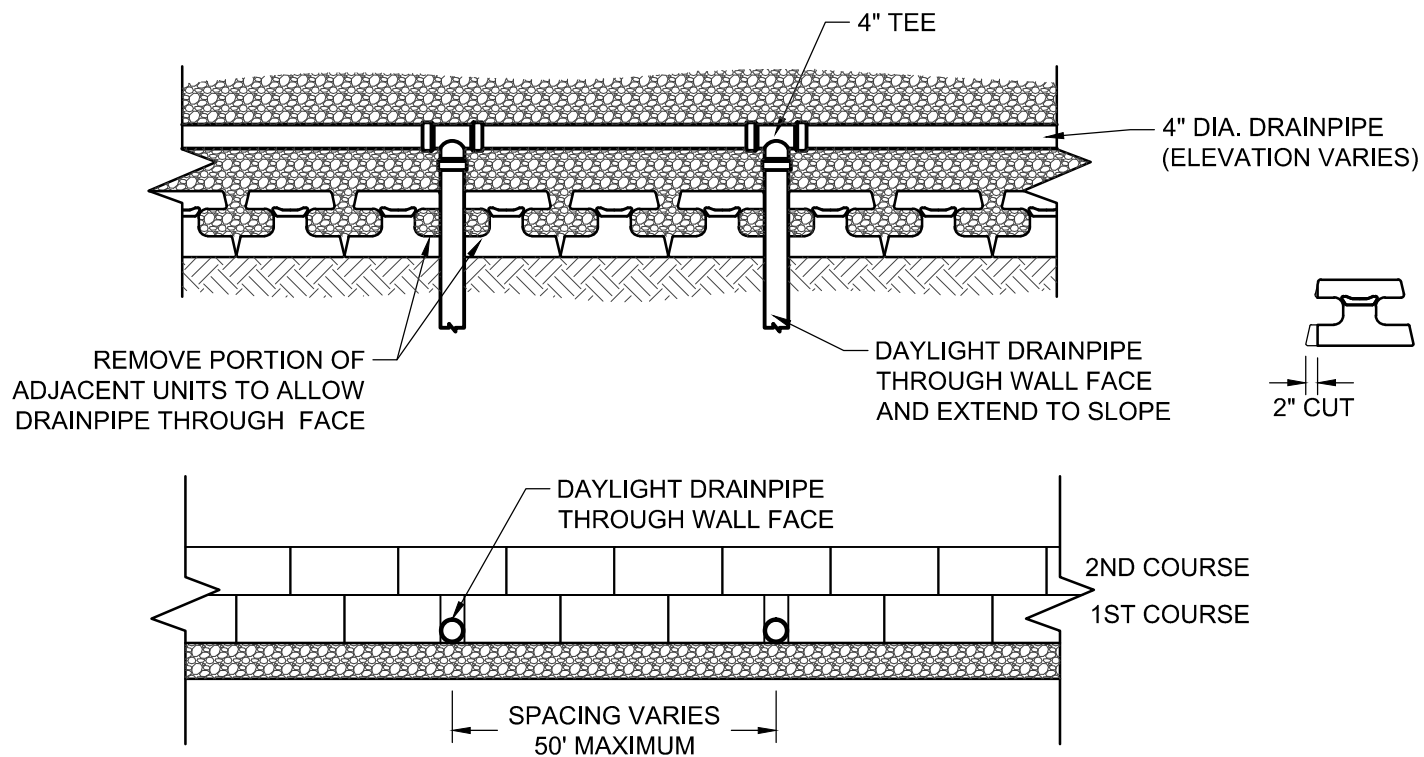
Drain Pipe Through Wall Face

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT17



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Vertica® Retaining Wall System

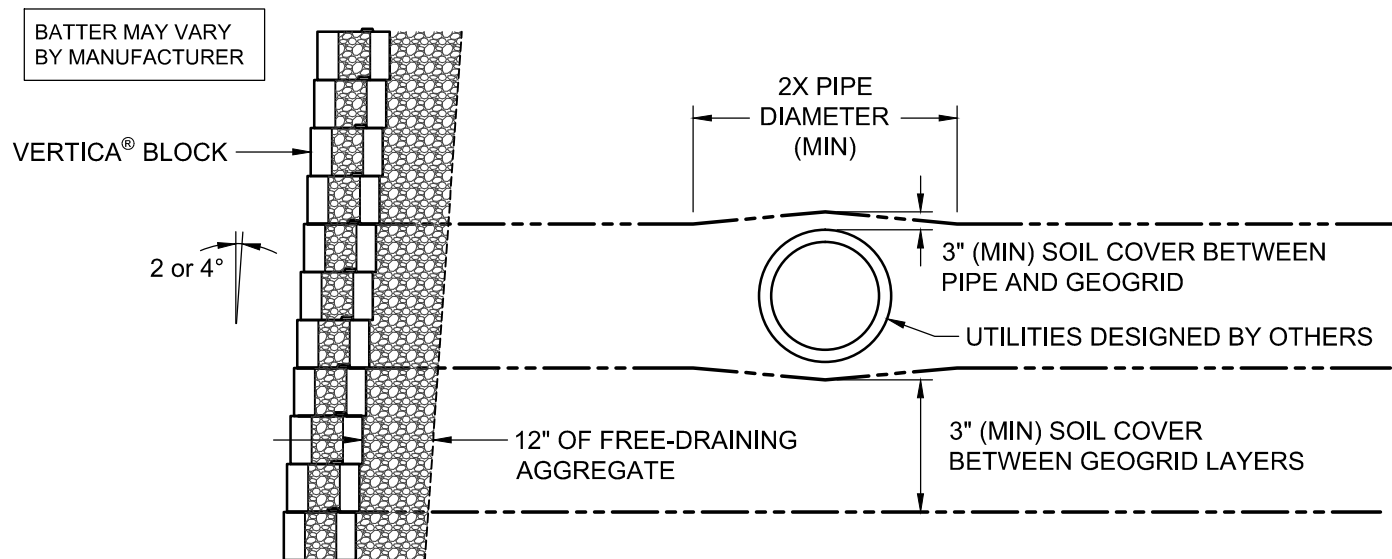
Drain Pipe Through Toe Slope

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT18



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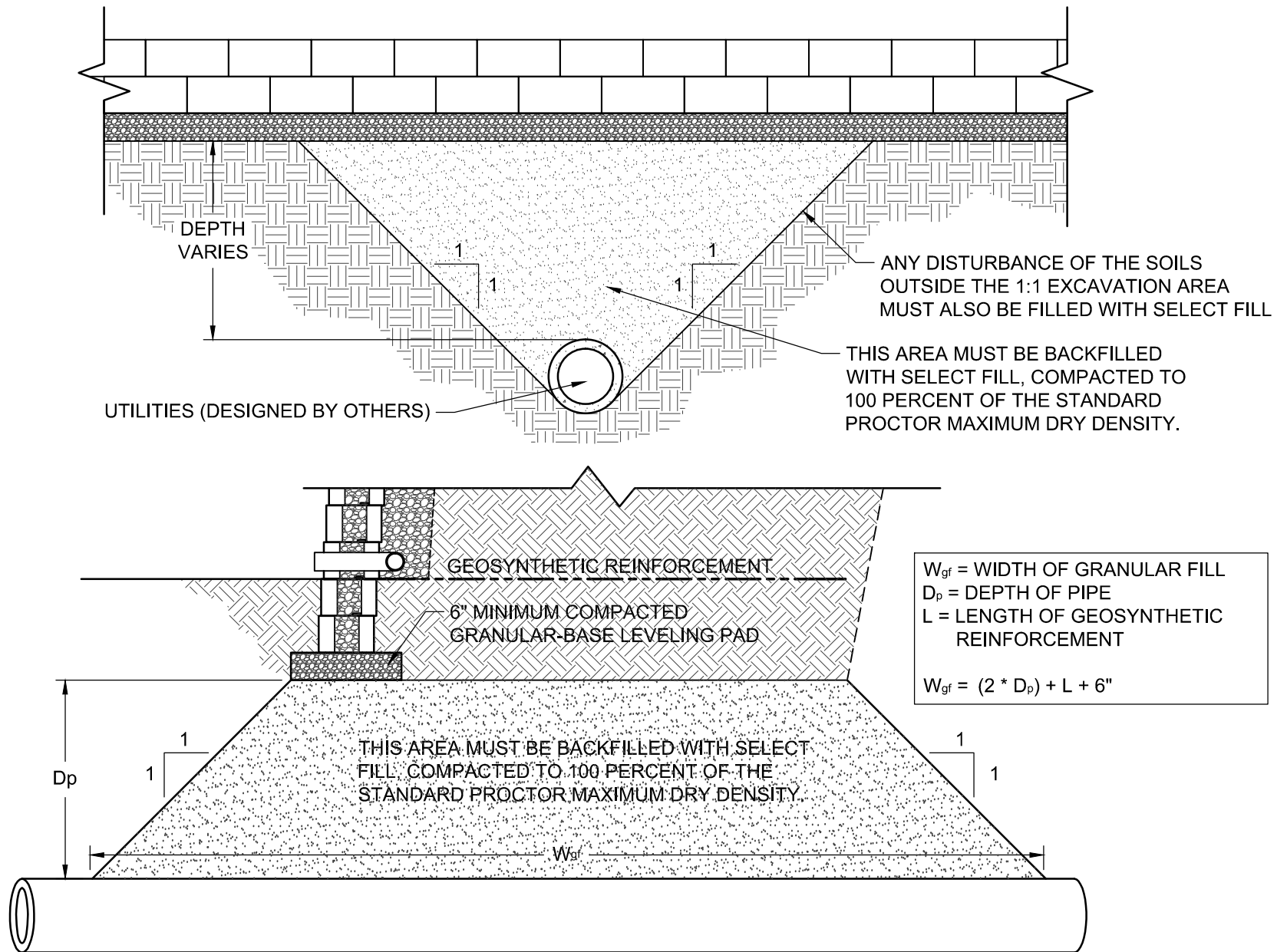
Typical Cross Section With Parallel Utilities

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

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT19



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Vertica® Retaining Wall System

Typical Details For Utilities Below Wall

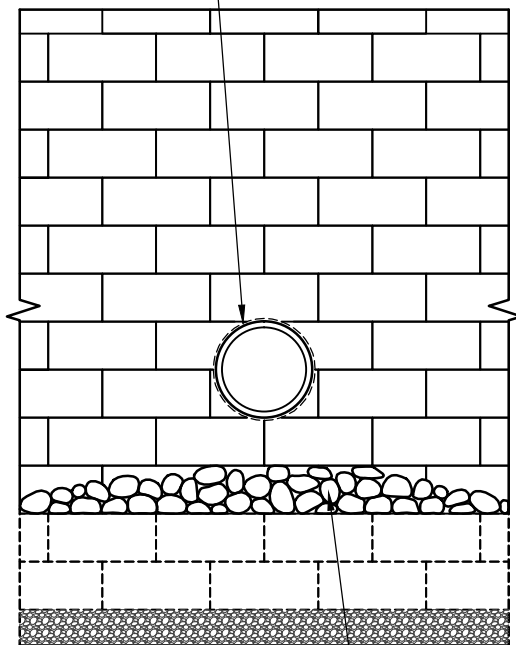
Scale:
 $3/8" = 1'-0"$

Drawn by:
 DA

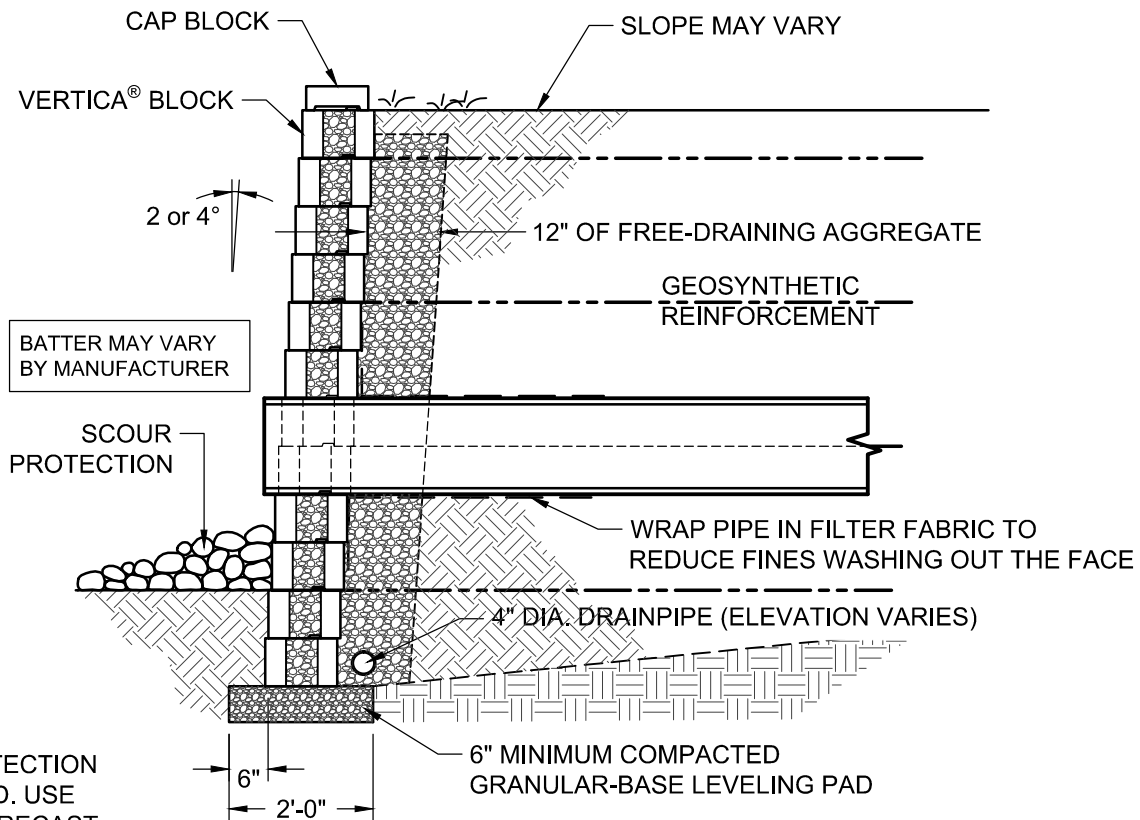
Date:
 10/5/2023

Drawing number:
 VT20

HAND-CUT BLOCK UNITS
TO WITHIN 1/2" OF PIPE



SCOUR PROTECTION
AS REQUIRED. USE
RIPRAP OR PRECAST
SLAB IN OUTLET AREA
(DESIGNED BY OTHERS)



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Vertica® Retaining Wall System

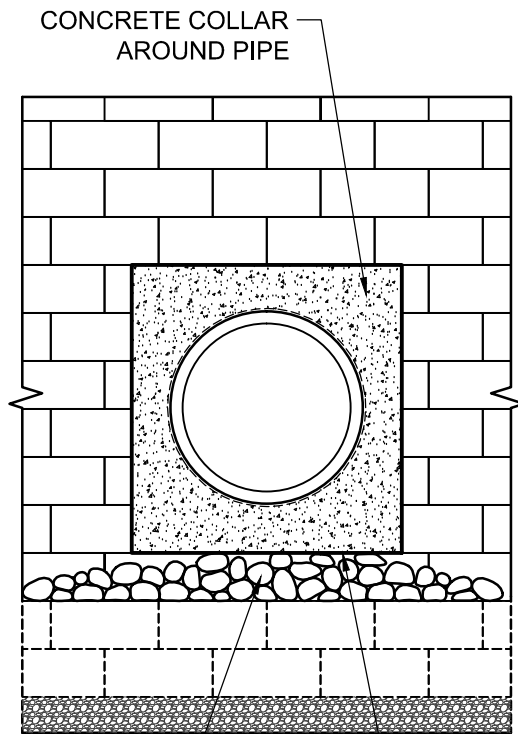
Typical Details For Small Utilities Through Wall

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

Drawn by:
DA

Date:
10/5/2023

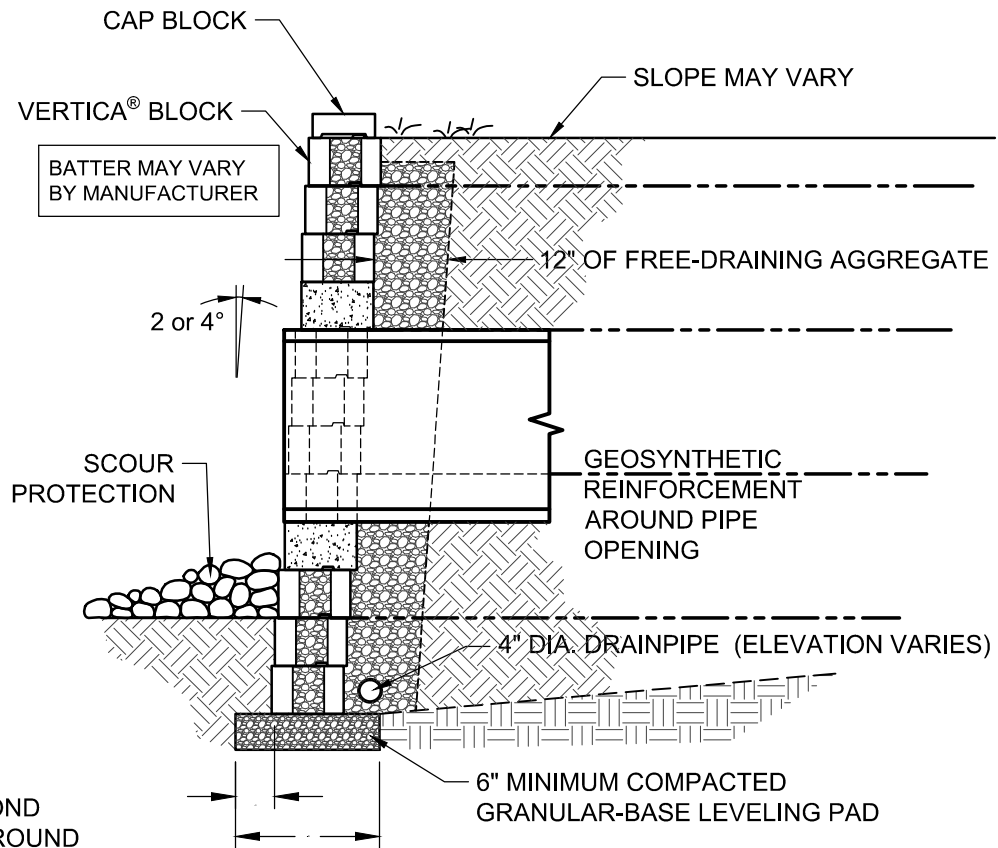
Drawing number:
VT21



CONCRETE COLLAR
AROUND PIPE

SCOUR PROTECTION
AS REQUIRED. USE
RIPRAP OR PRECAST
SLAB IN OUTLET AREA
(DESIGNED BY OTHERS)

PLACE BOND
BREAK AROUND
WALL OPENING



CAP BLOCK

VERTICA® BLOCK

BATTER MAY VARY
BY MANUFACTURER

2 or 4°

SLOPE MAY VARY

12" OF FREE-DRAINING AGGREGATE

SCOUR
PROTECTION

GEOSYNTHETIC
REINFORCEMENT
AROUND PIPE
OPENING

4" DIA. DRAINPIPE (ELEVATION VARIES)

6" MINIMUM COMPACTED
GRANULAR-BASE LEVELING PAD



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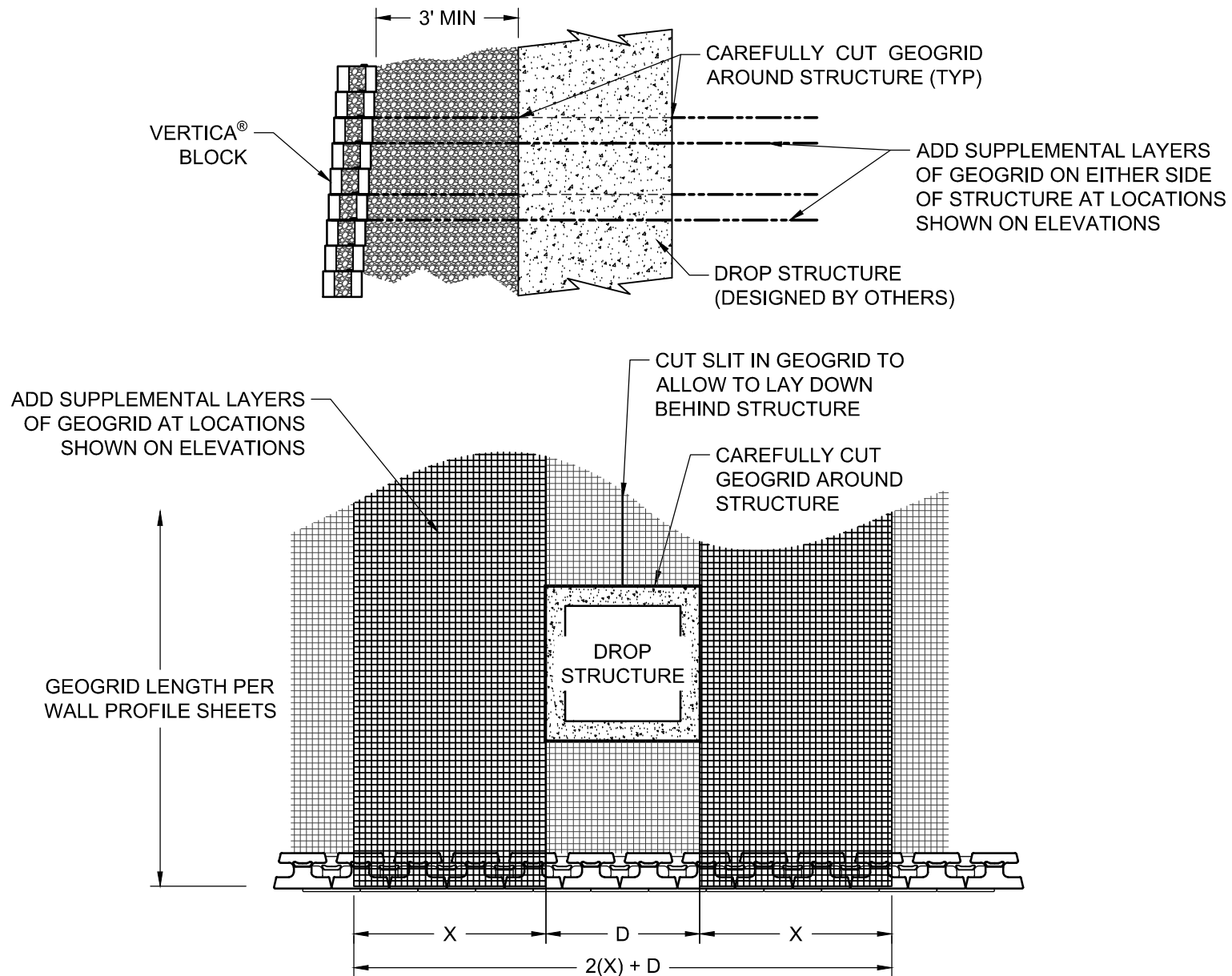
Typical Details For Large Utilities Through Wall

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT22



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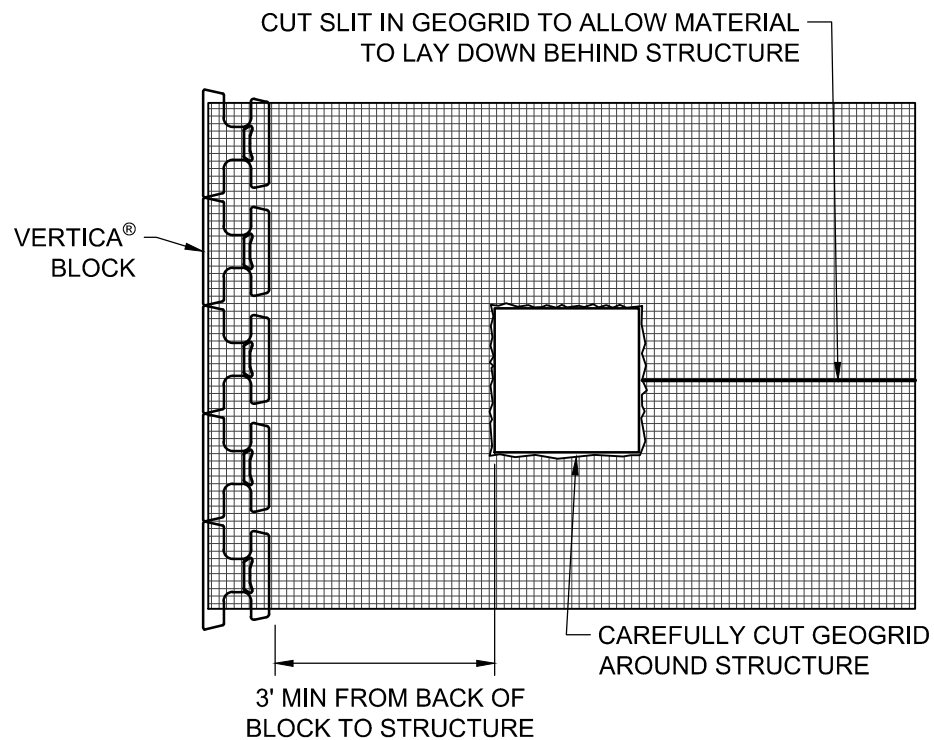
Typical Drop Structure Behind Wall

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT23



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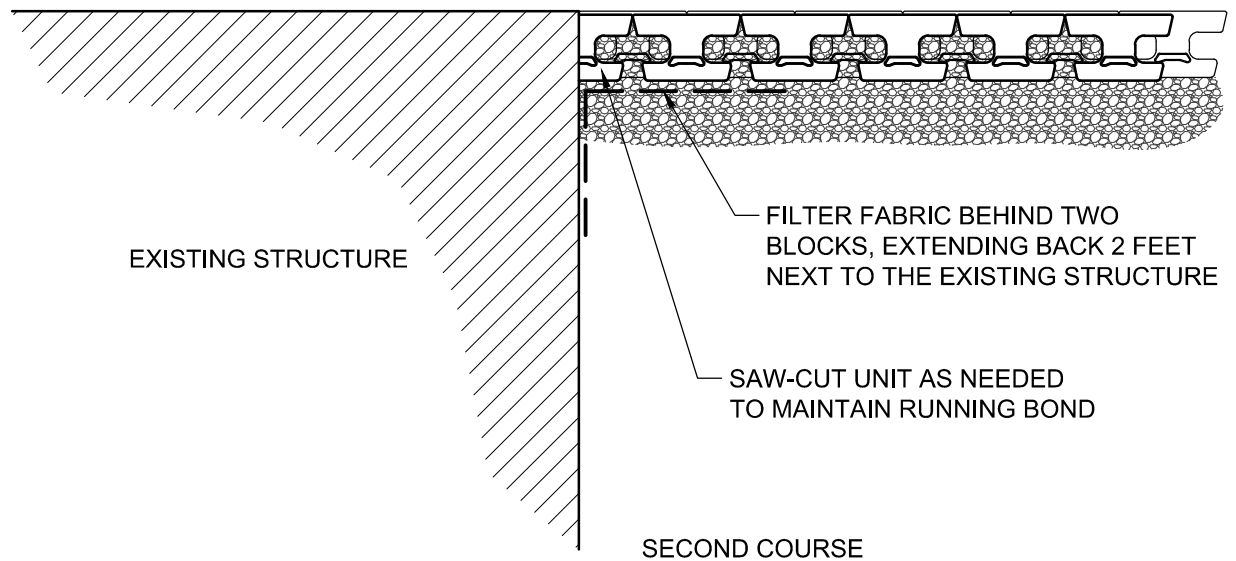
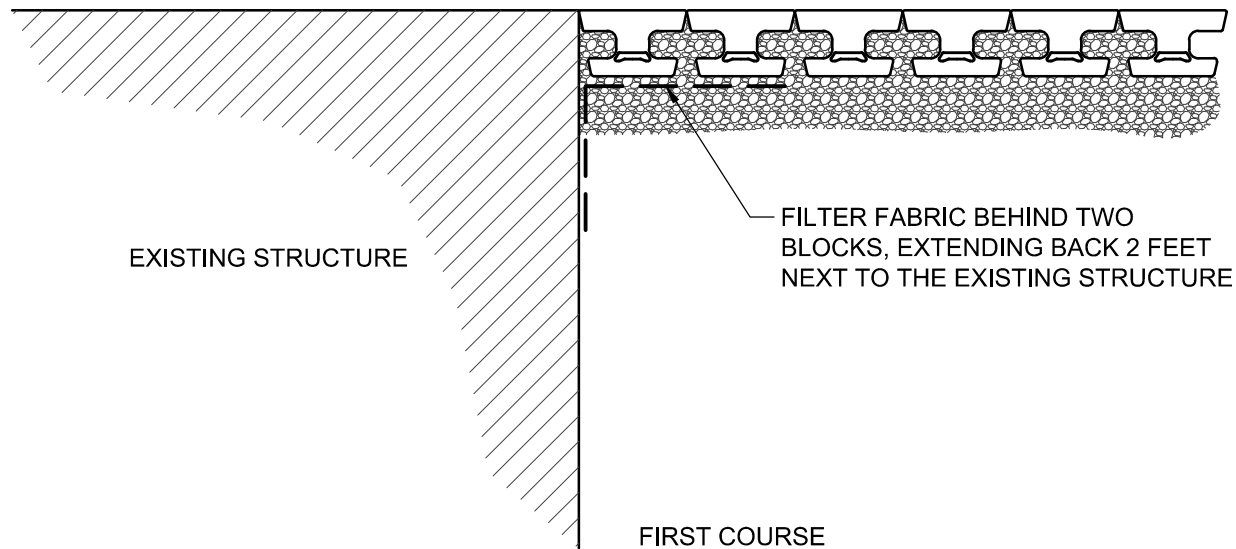
Alternate Drop Structure Behind Wall

Scale:
 $\frac{3}{8}" = 1'-0"$

Drawn by:
 DA

Date:
 10/5/2023

Drawing number:
 VT24



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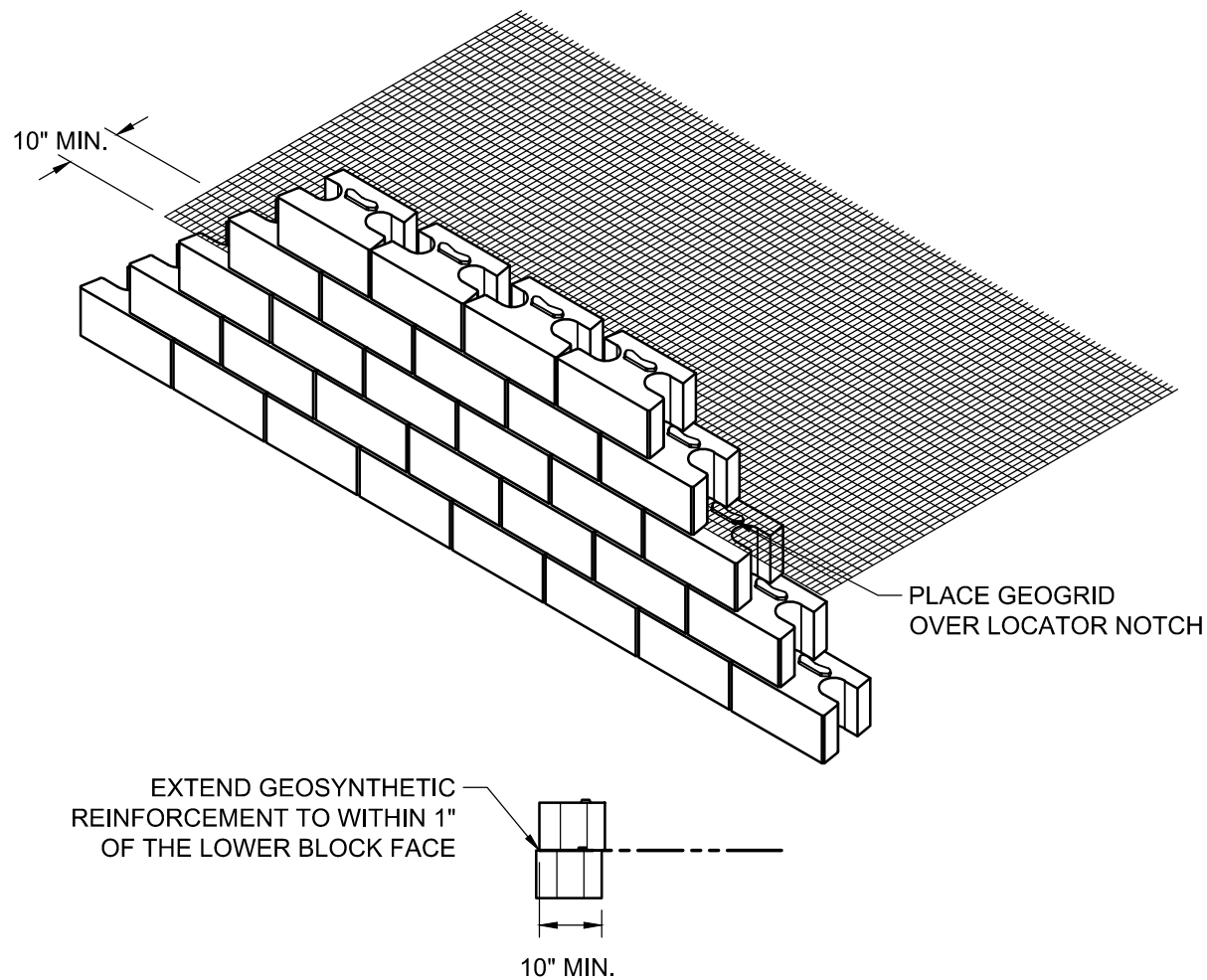
Wall Abutting Structure

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

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT25



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Vertica® Retaining Wall System Reinforcement Connection Detail

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

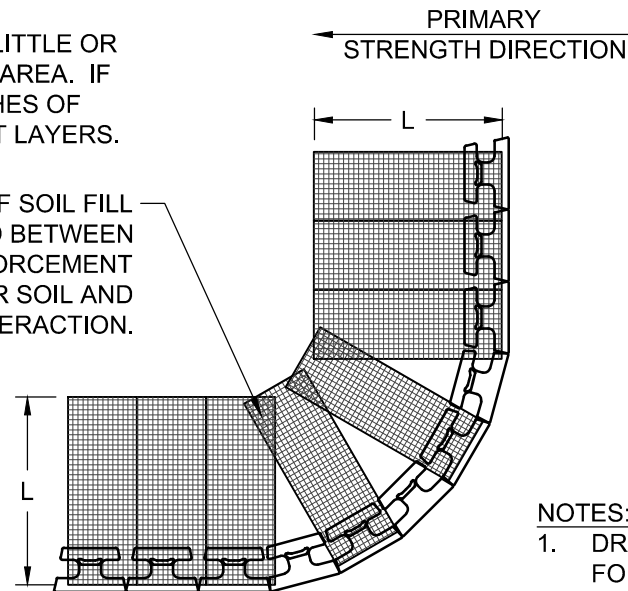
Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT26

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

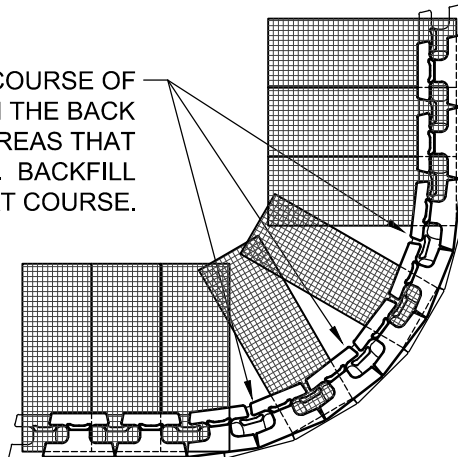
2 TO 3 INCHES OF SOIL FILL REQUIRED BETWEEN OVERLAPPED REINFORCEMENT FOR PROPER SOIL AND REINFORCEMENT INTERACTION.



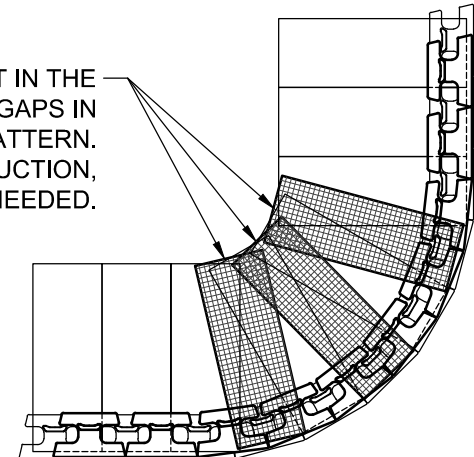
NOTES:

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.



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Vertica® Retaining Wall System

Outside Curves

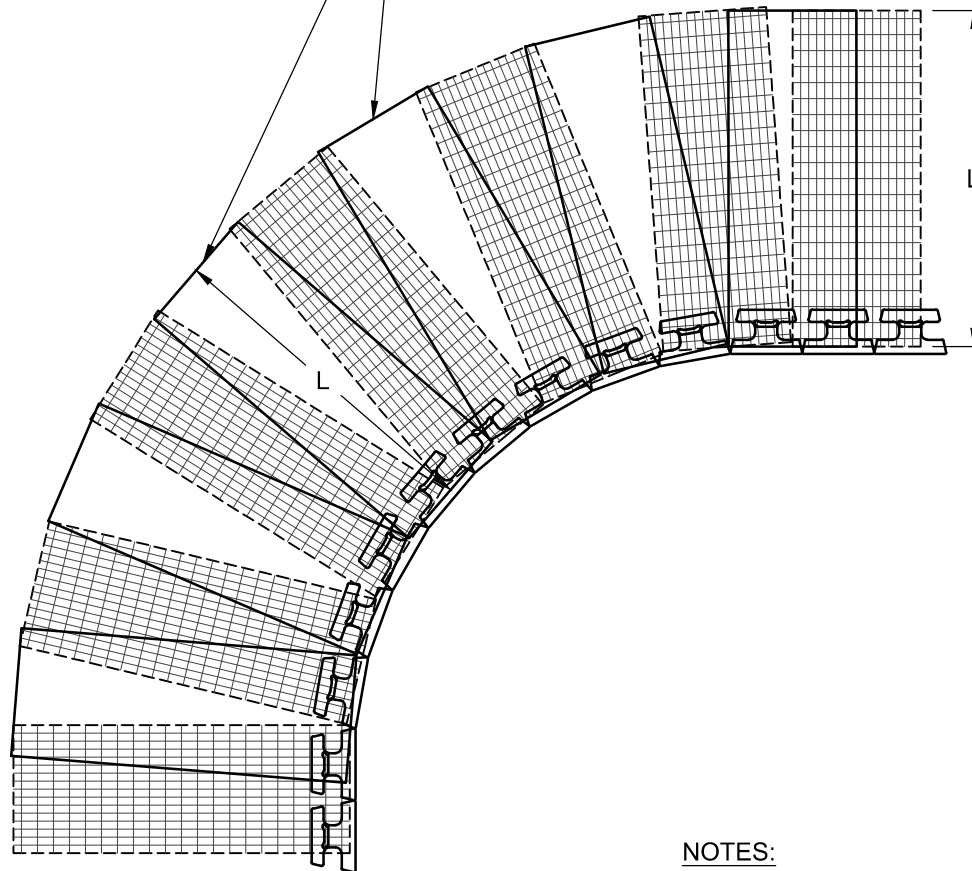
Scale:
1/4" = 1'-0"

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT27

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



← PRIMARY
STRENGTH DIRECTION

NOTES:

1. DRAINAGE AGGREGATE NOT SHOWN FOR CLARITY.
2. MINIMUM RADIUS 7'-0" TO FACE.



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Inside Curves

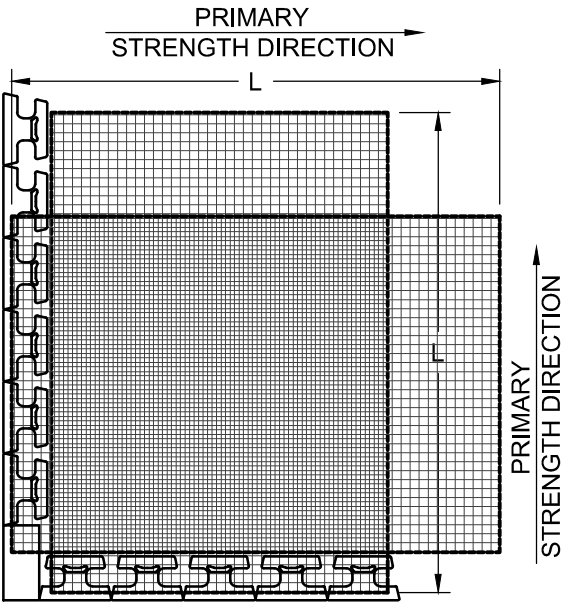
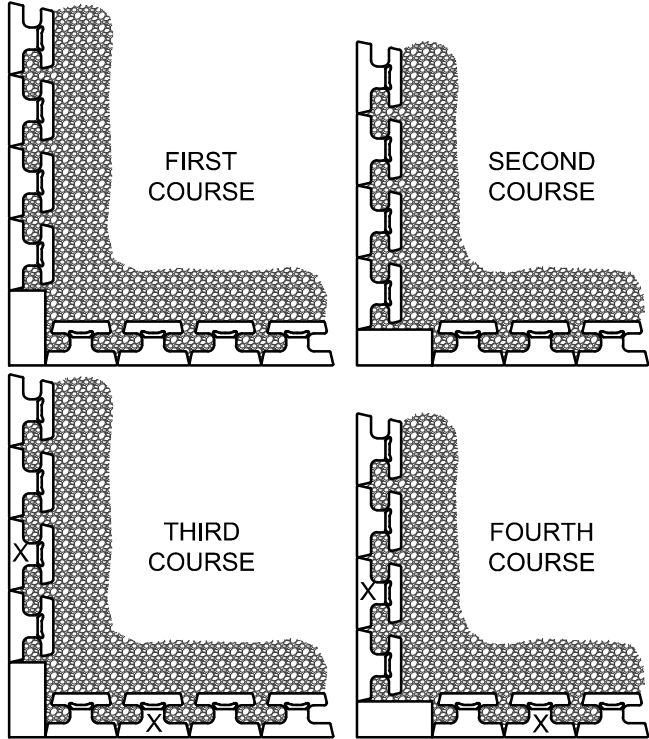
Scale:
1/4" = 1'-0"

Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT28

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.



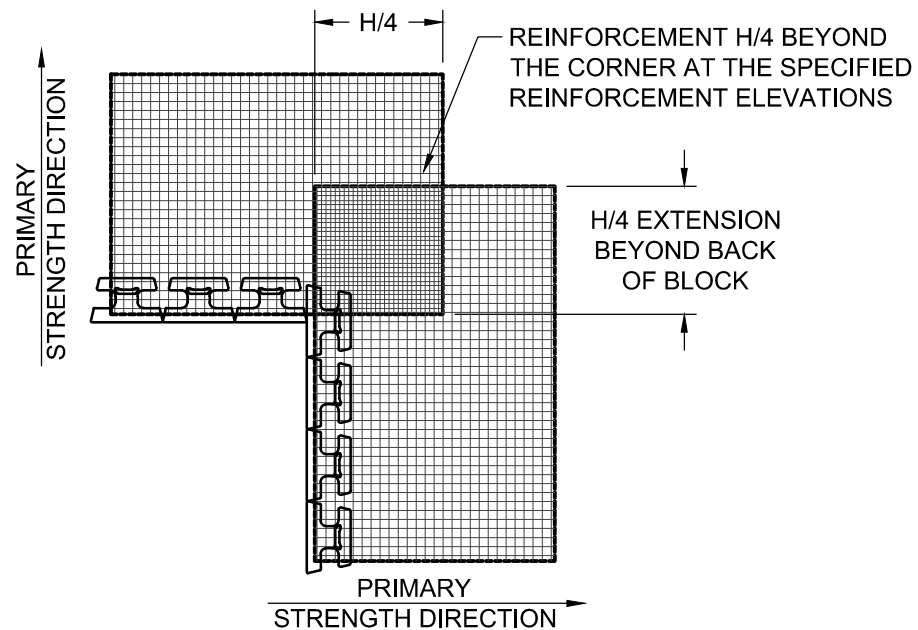
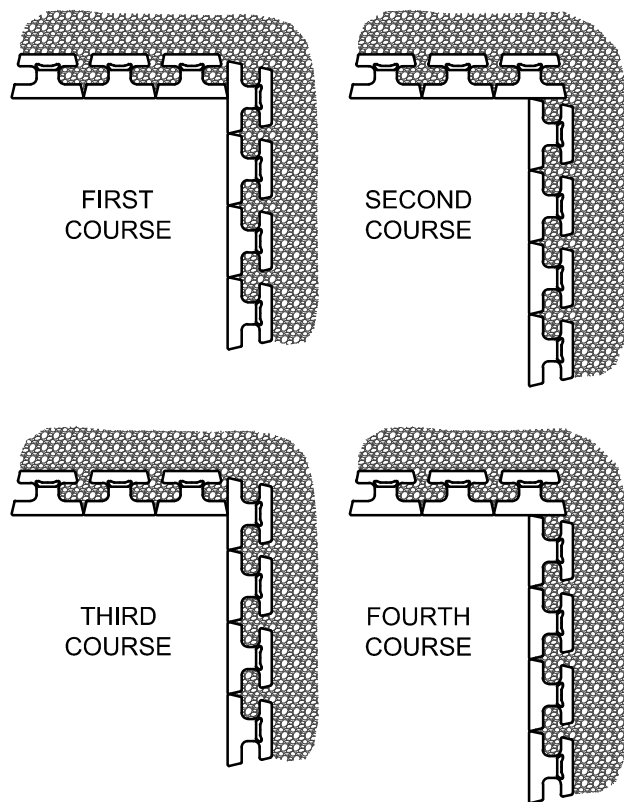
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Vertica® Retaining Wall System

Outside Corners

Scale: 1/4" = 1'-0"	Drawn by: DA
Date: 10/5/2023	Drawing number: VT29



NOTE:
PLACEMENT OF REINFORCEMENT EXTENSION
ON SPECIFIED REINFORCEMENT ELEVATIONS.



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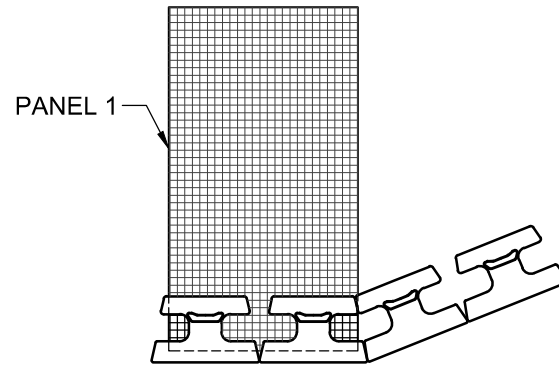
Inside Corners

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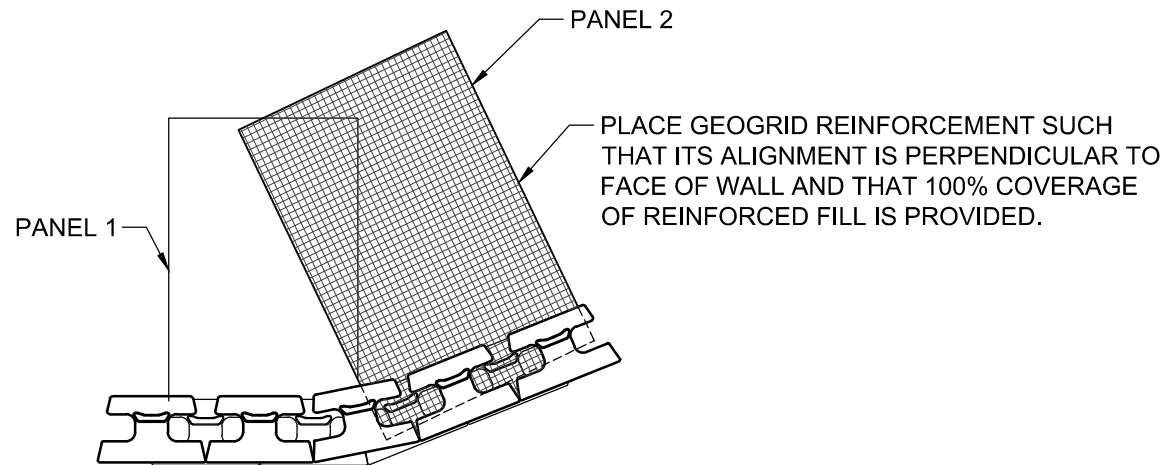
Drawn by:
DA

Date:
10/5/2023

Drawing number:
VT30



COURSE A



COURSE B

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



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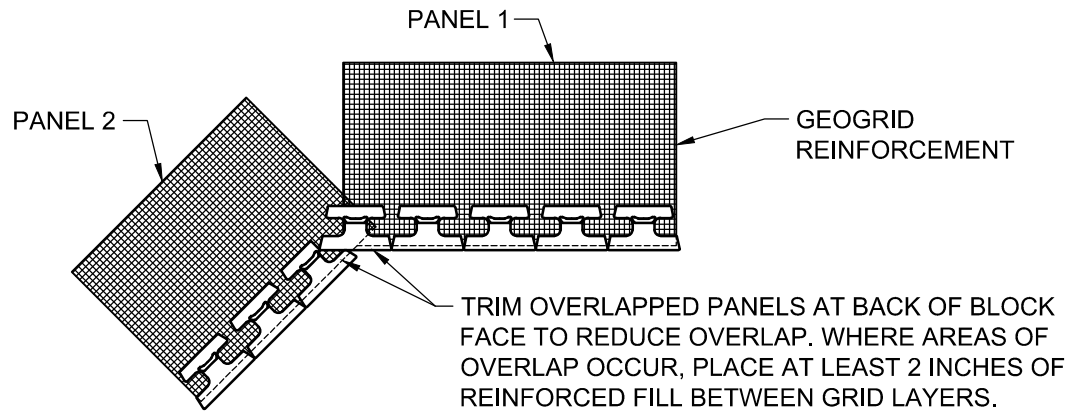
Outside Angles

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

Drawn by:
DA

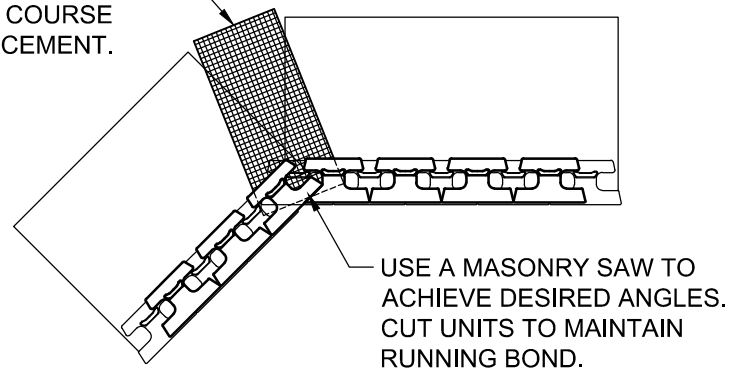
Date:
10/5/2023

Drawing number:
VT31



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



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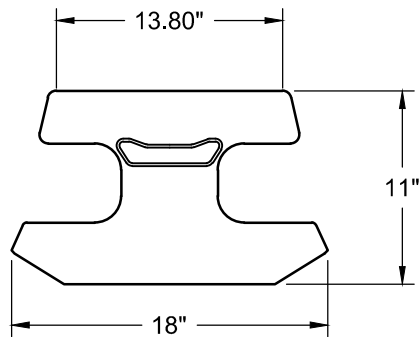
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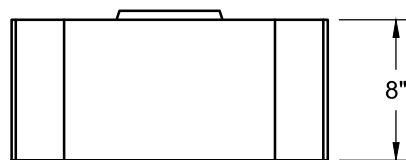
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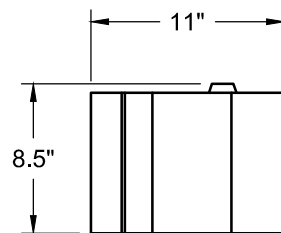
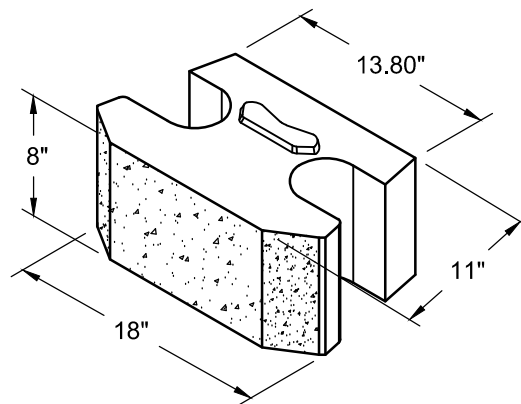
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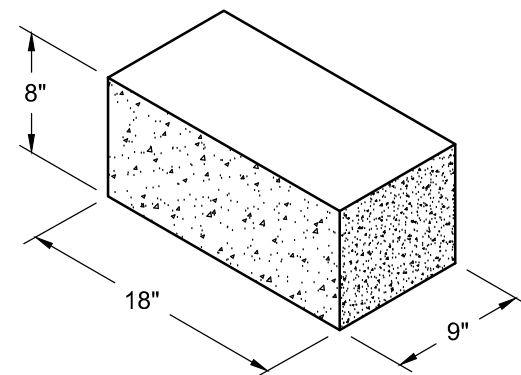
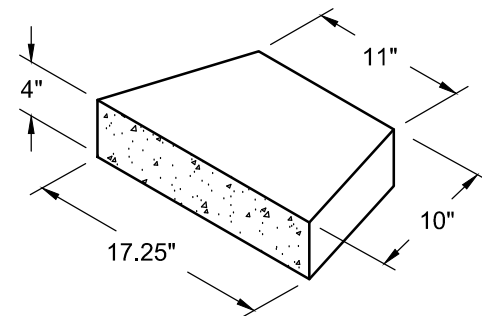
TOP VIEW



FRONT VIEW



SIDE VIEW



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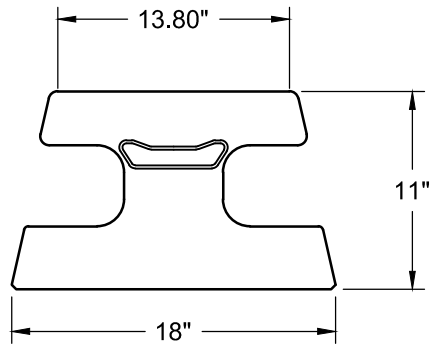
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Scale:
Custom

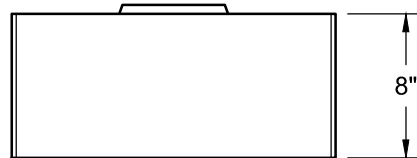
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Date:
10/5/2023

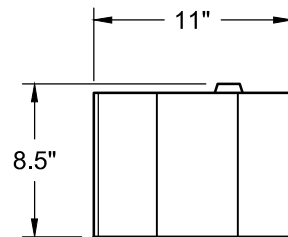
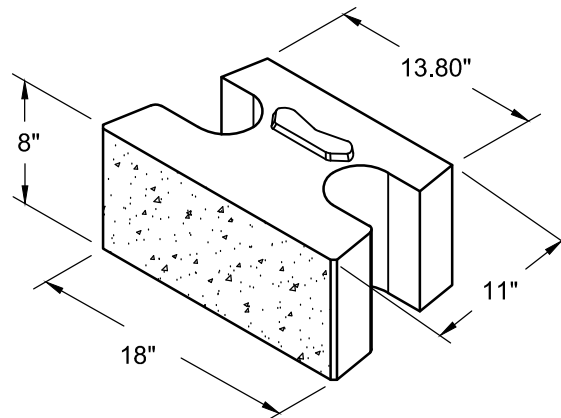
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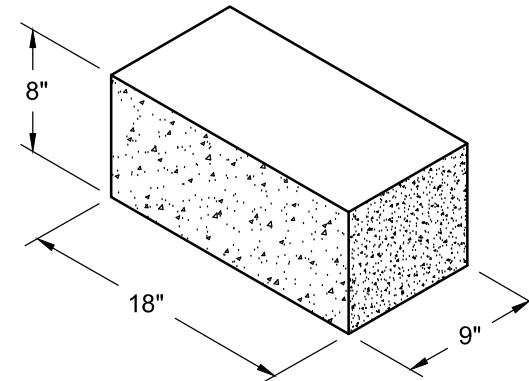
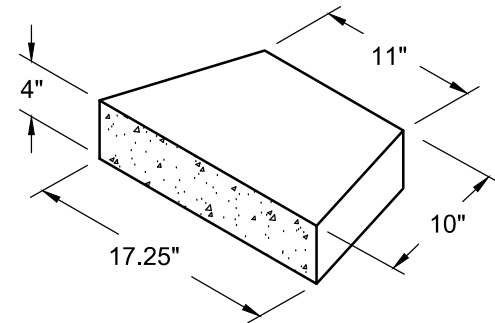
TOP VIEW



FRONT VIEW



SIDE VIEW



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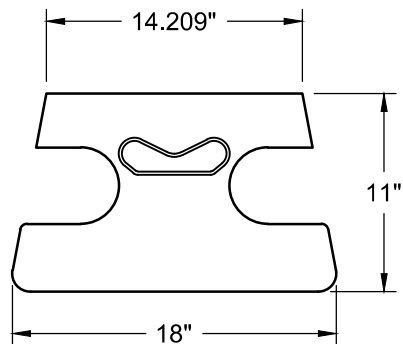
Individual Block Details - Straight Split

Scale:
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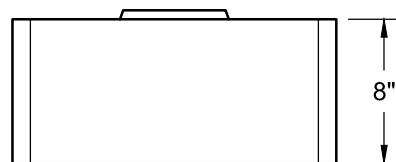
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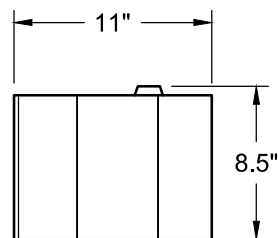
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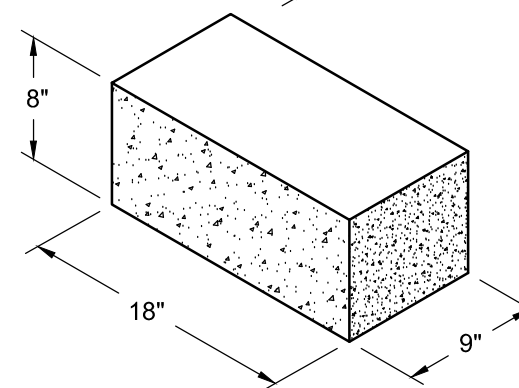
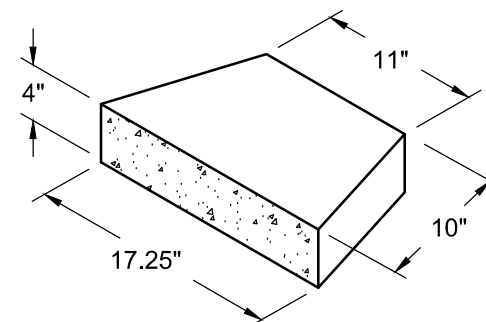
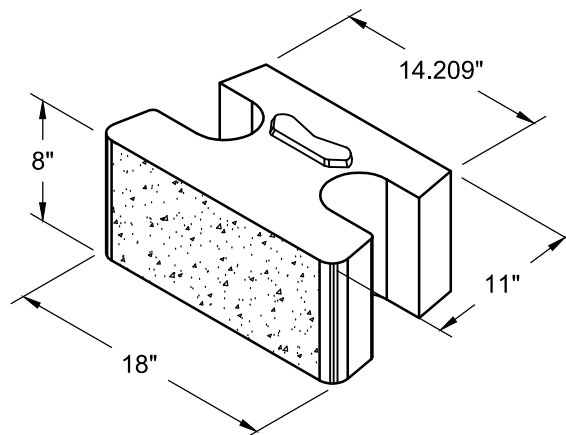
TOP VIEW



FRONT VIEW



SIDE VIEW



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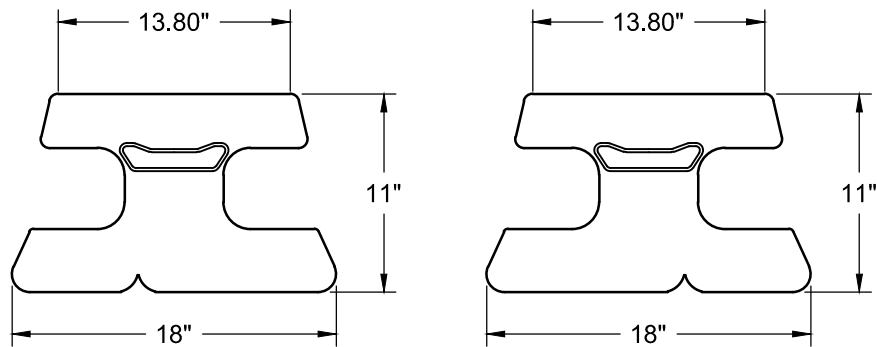
Individual Block Details - Stone Cut

Scale:
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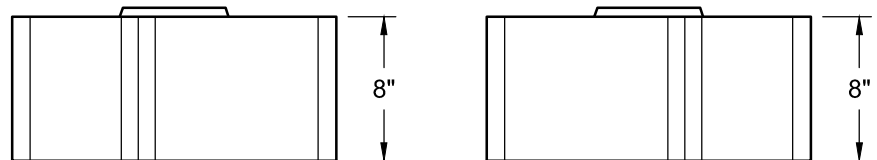
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Date:
 10/5/2023

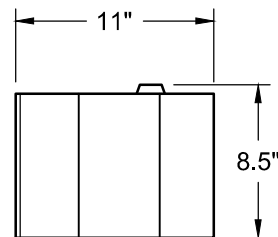
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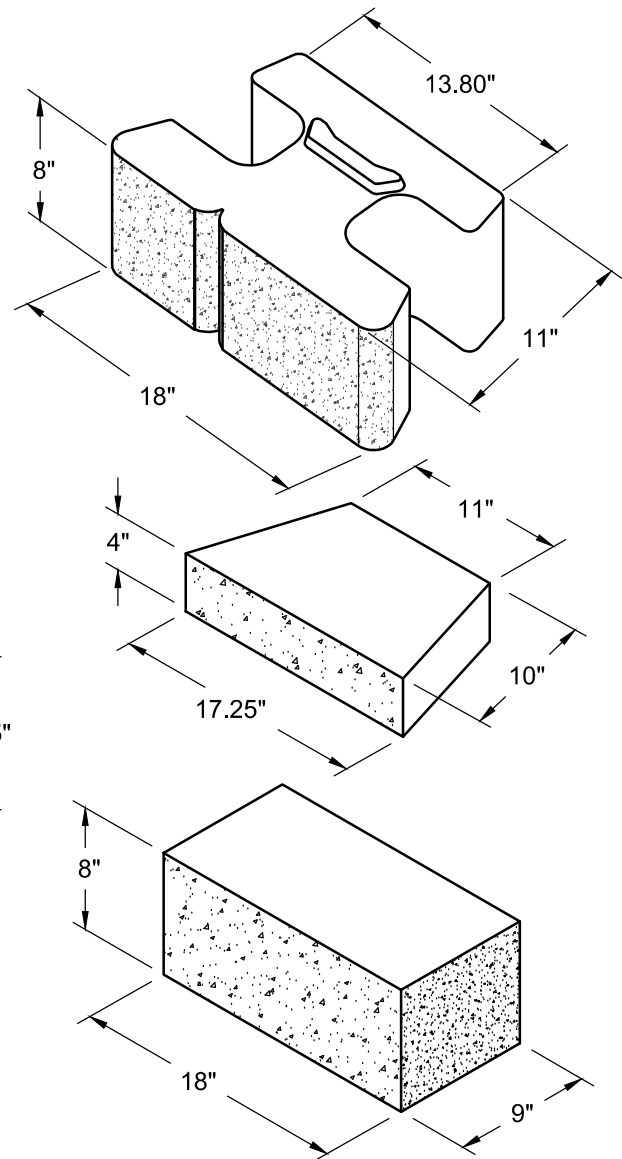
TOP VIEW



FRONT VIEW



SIDE VIEW



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Individual Block Details - Virtual Joint

Scale:
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Date:
10/5/2023

Drawing number:
VT36