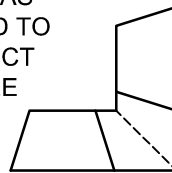
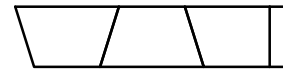


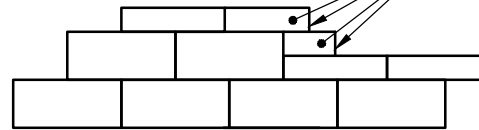
SAW CUT AS
REQUIRED TO
CONSTRUCT
90 DEGREE
MITERED
CORNER



TOP



SPLIT FACE
AND END



WALL FACE

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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Capping Details

Scale:

3/8" - 1'-0"

Drawn By:

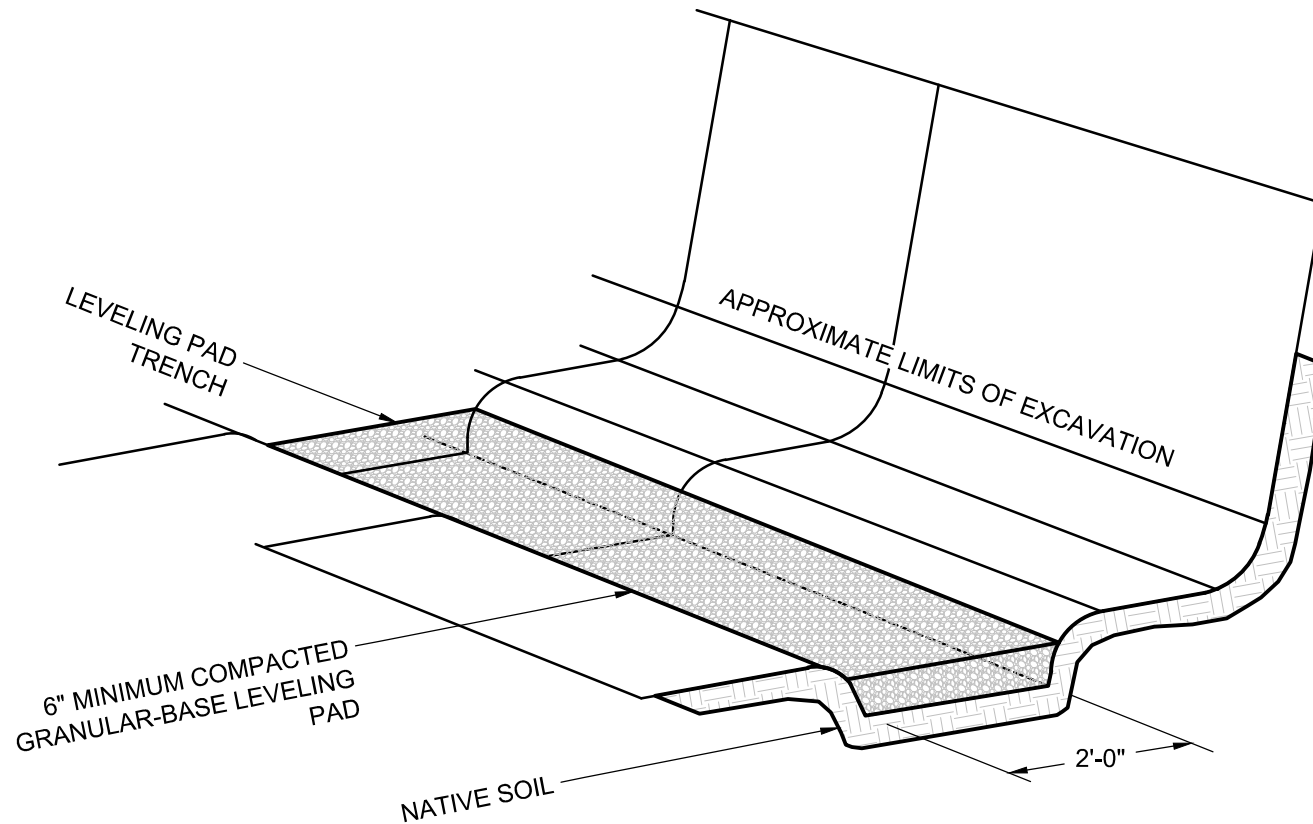
JB

Date:

1/19/2016

Drawing Number:

VERT01



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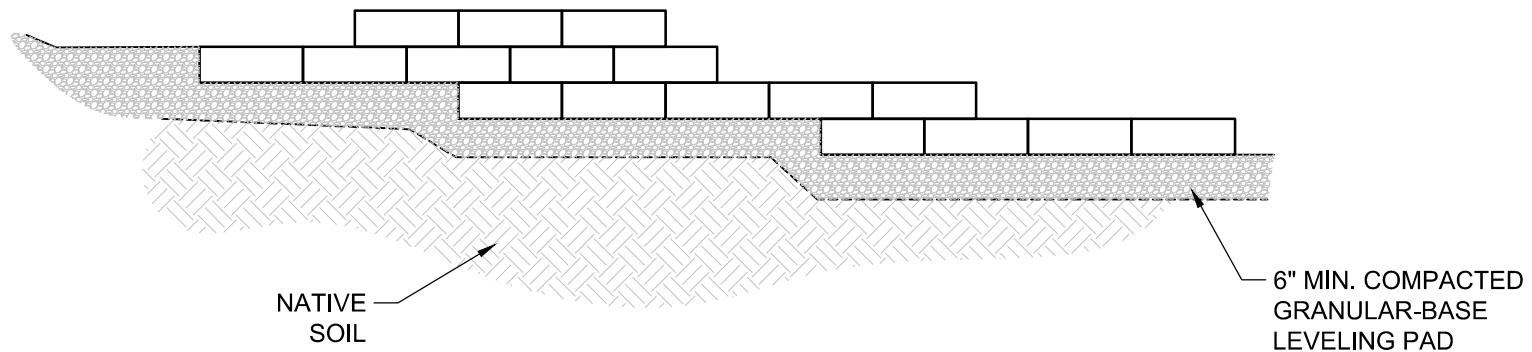
Typical Base Preparation

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT02



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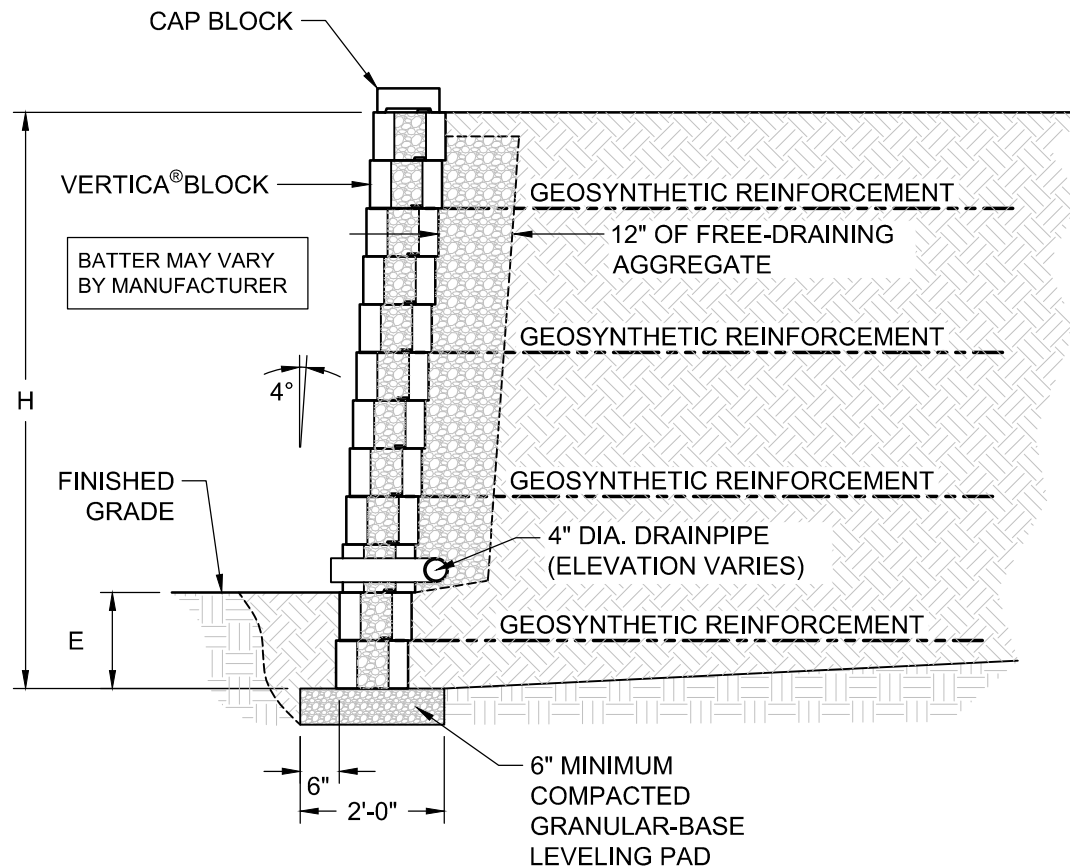
Typical Base Step-Up

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT03



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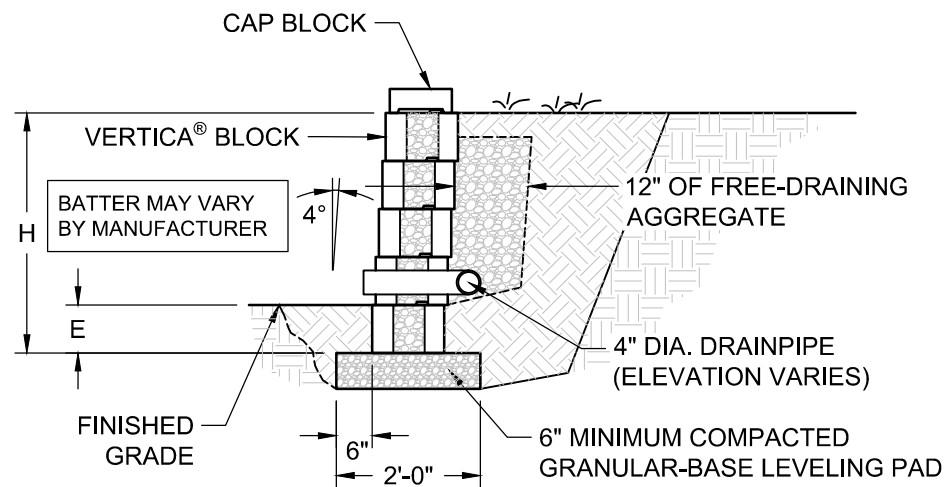
Typical Reinforced Cross Section

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT04



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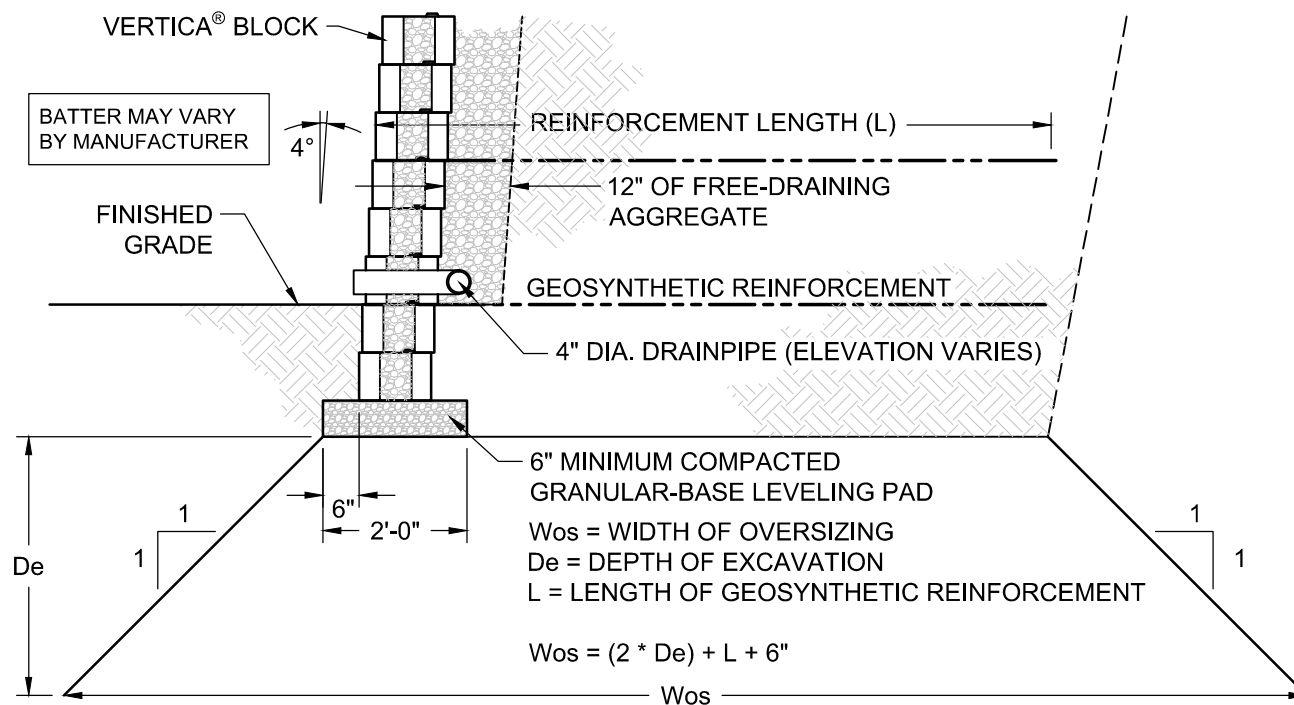
Typical Gravity Cross Section

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT05



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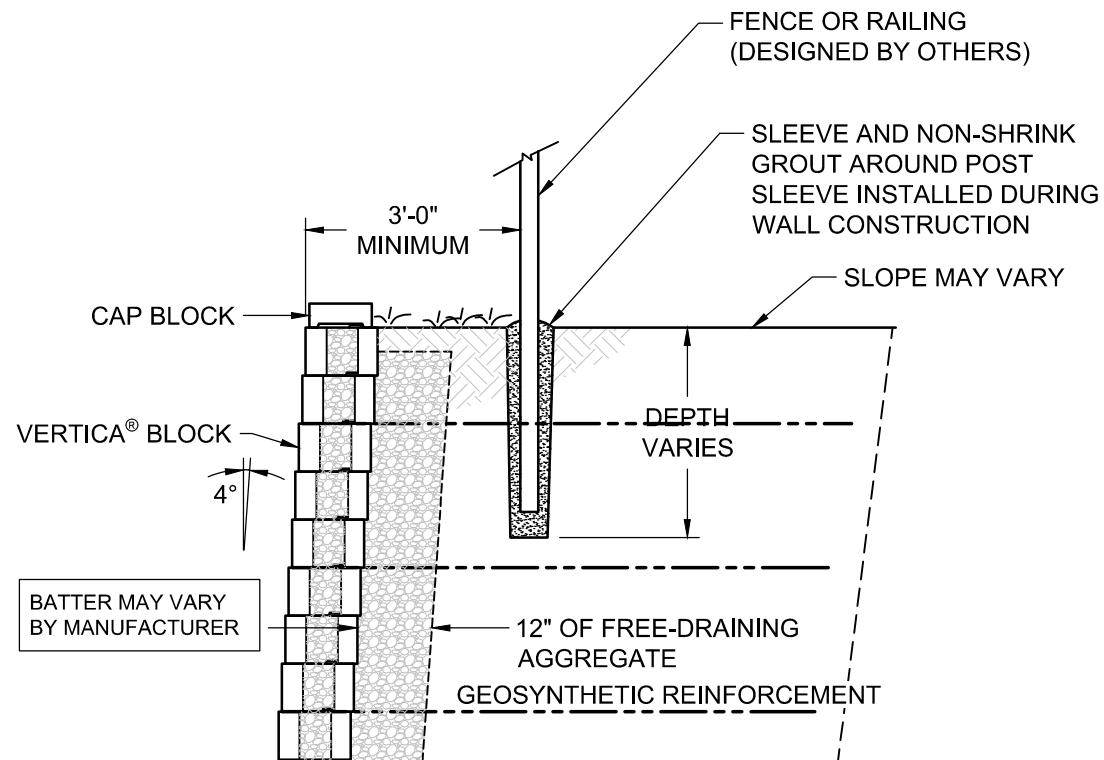
Typical Excavation Oversizing

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT06



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Typical Fence Cross Section

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT07



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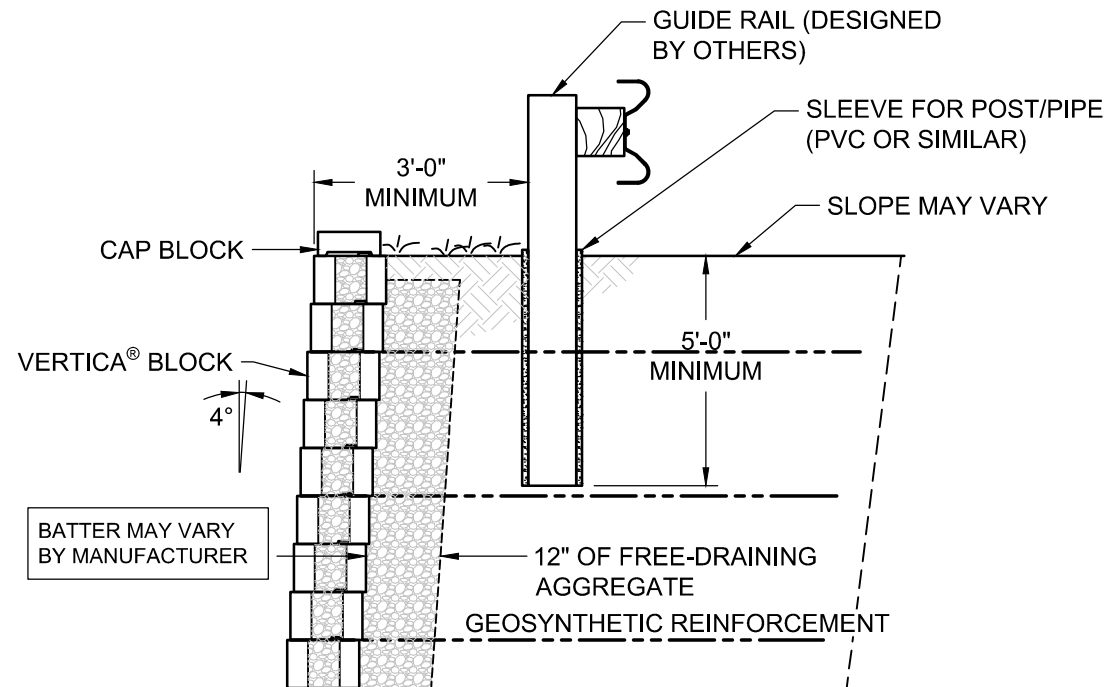
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Typical Fence Section with Sleeve-It

Scale:	Drawn By:
3/8" - 1'-0"	JB
Date:	Drawing Number:
1/19/2016	VERT08



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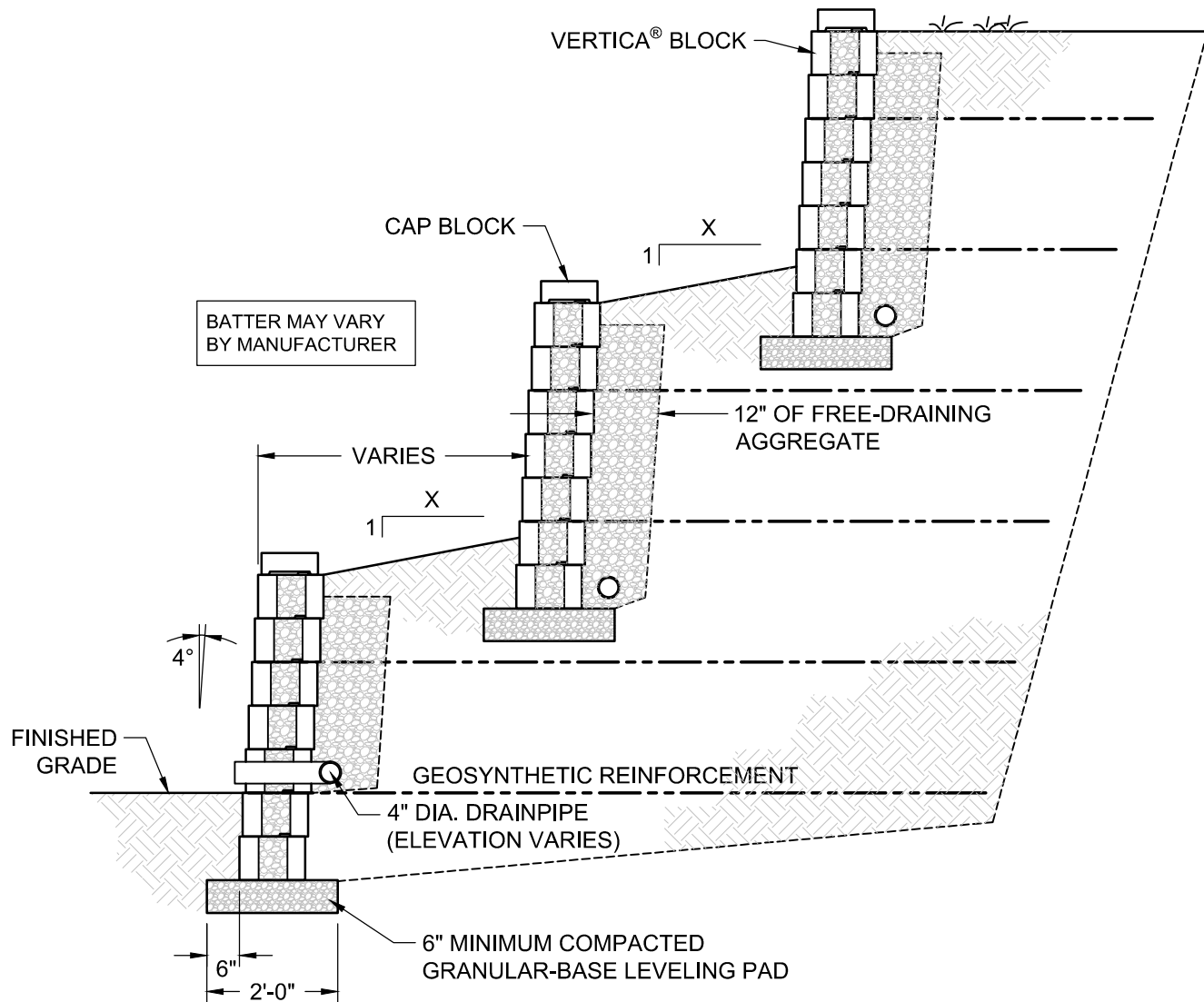
Typical Guide Rail Section

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

Drawn By:
JB

Date:

Drawing Number:
VERT09



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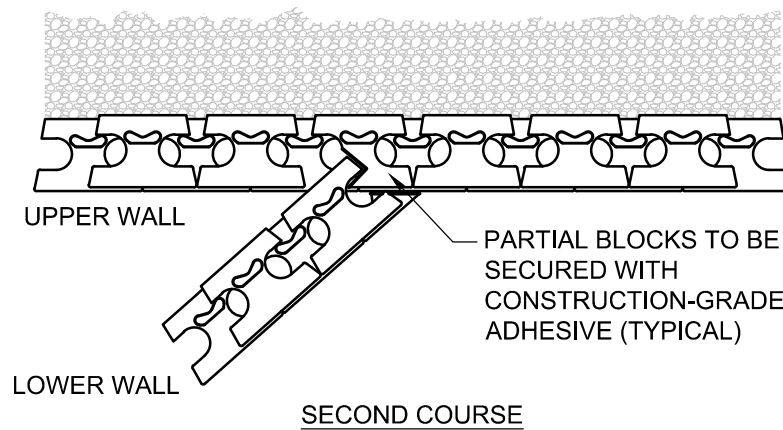
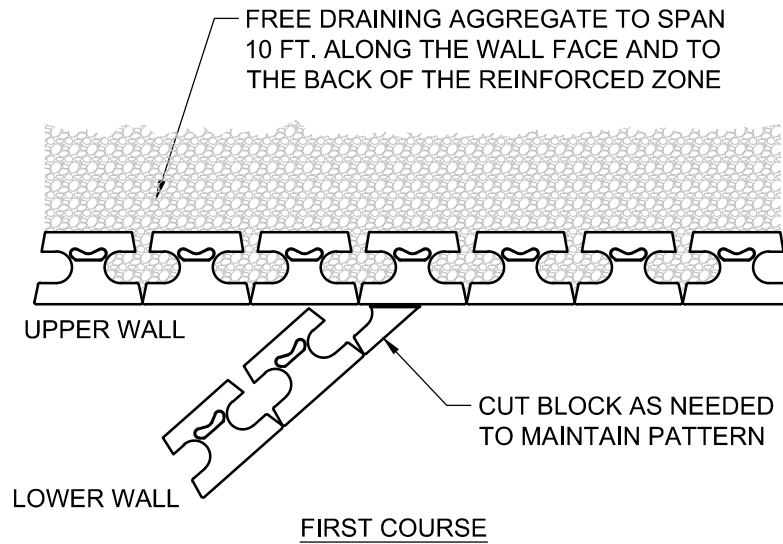
Typical Terraced Wall Cross Section

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

Drawn By:
JB

Date:

Drawing Number:
VERT10



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Typical Terraced Wall Connection

Scale:

3/8" - 1'-0"

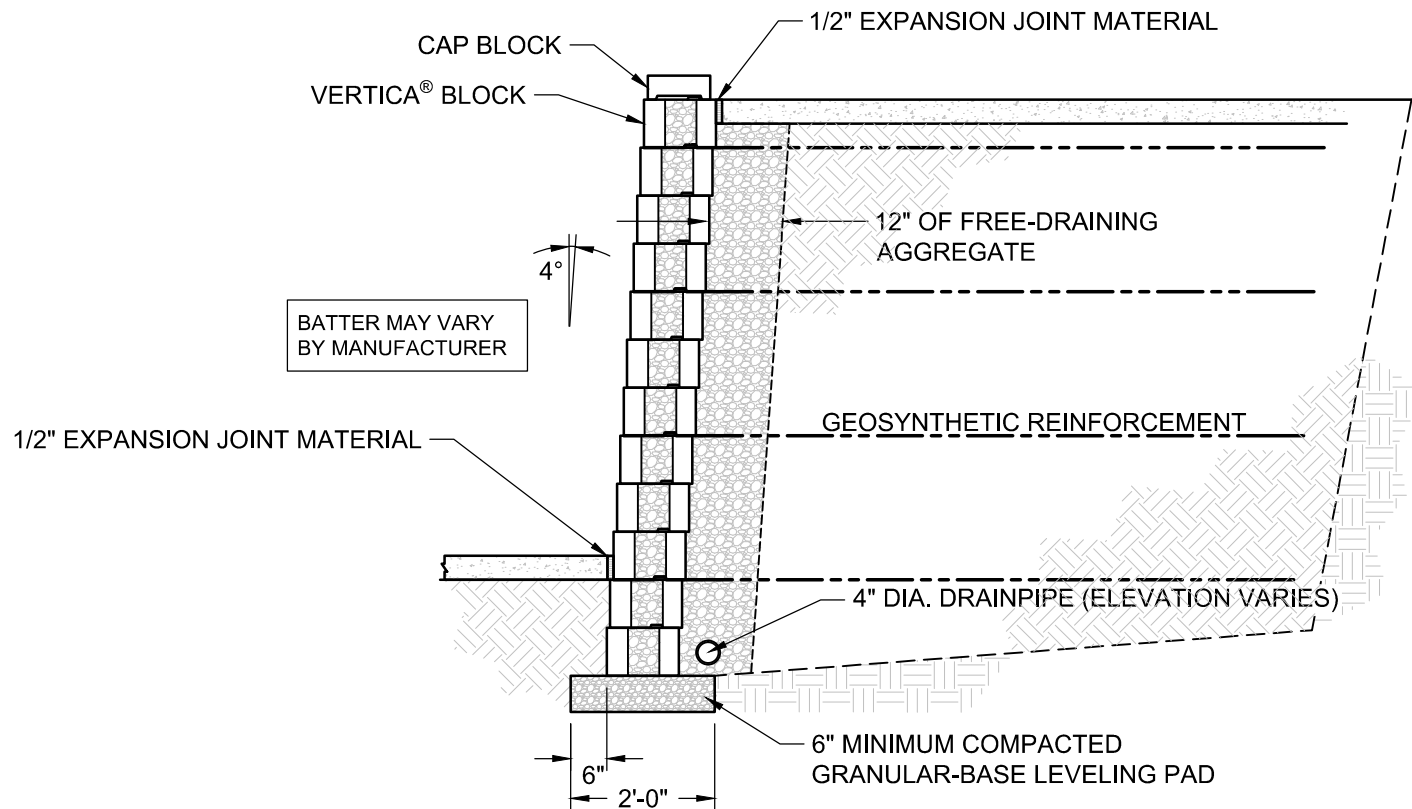
Drawn By:

JB

Date:

Drawing Number:

VERT11



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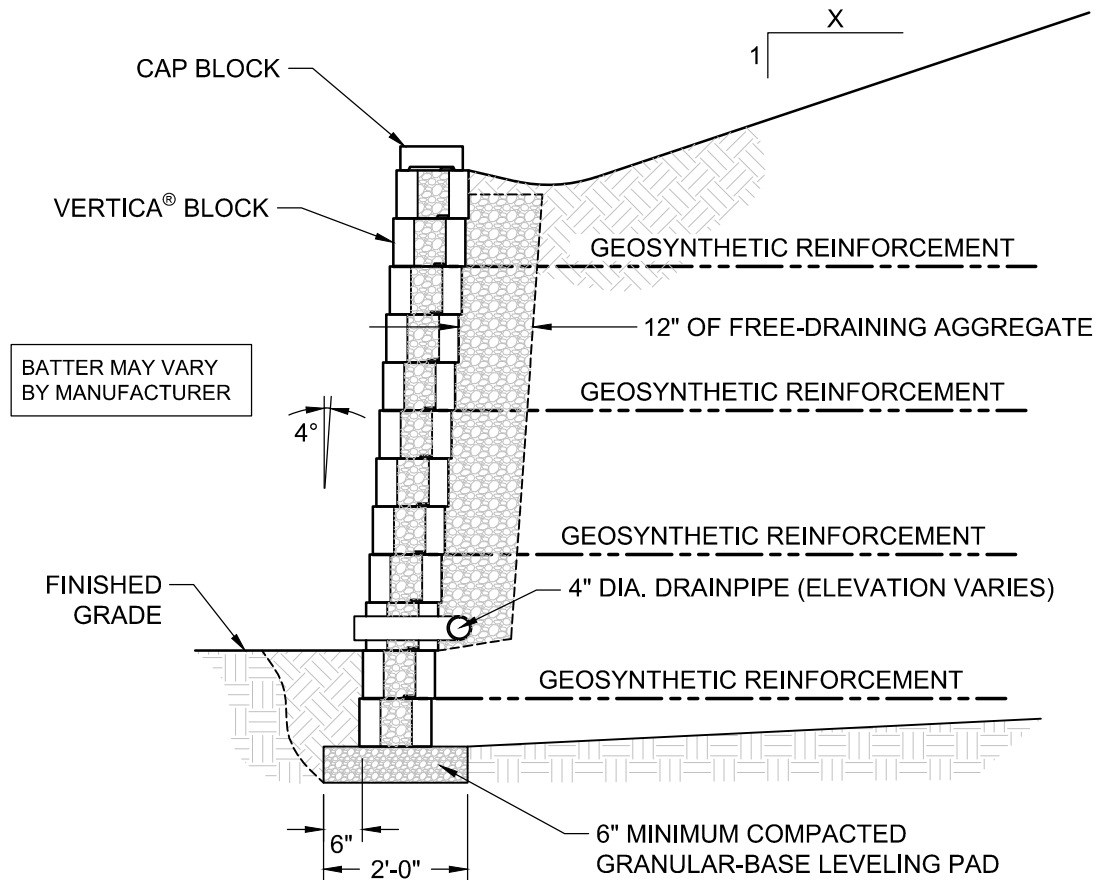
Typical Cross Section with Sidewalk

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

Drawn By:
JB

Date:

Drawing Number:
VERT12



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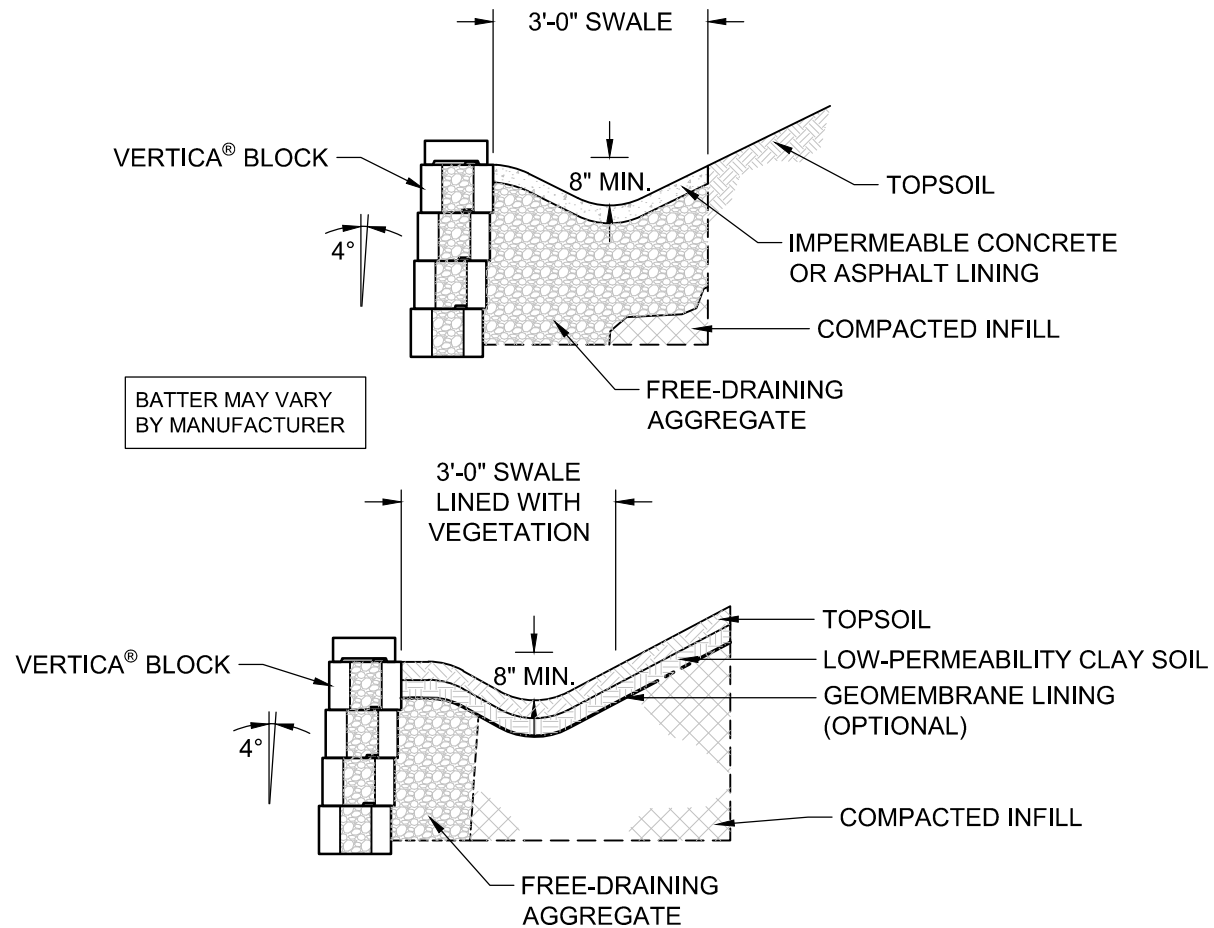
Reinforced Cross Section with Crest Slope

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

Drawn By:
JB

Date:

Drawing Number:
VERT13



REFER TO THE NCMA DESIGN MANUAL FOR ADDITIONAL DETAILS



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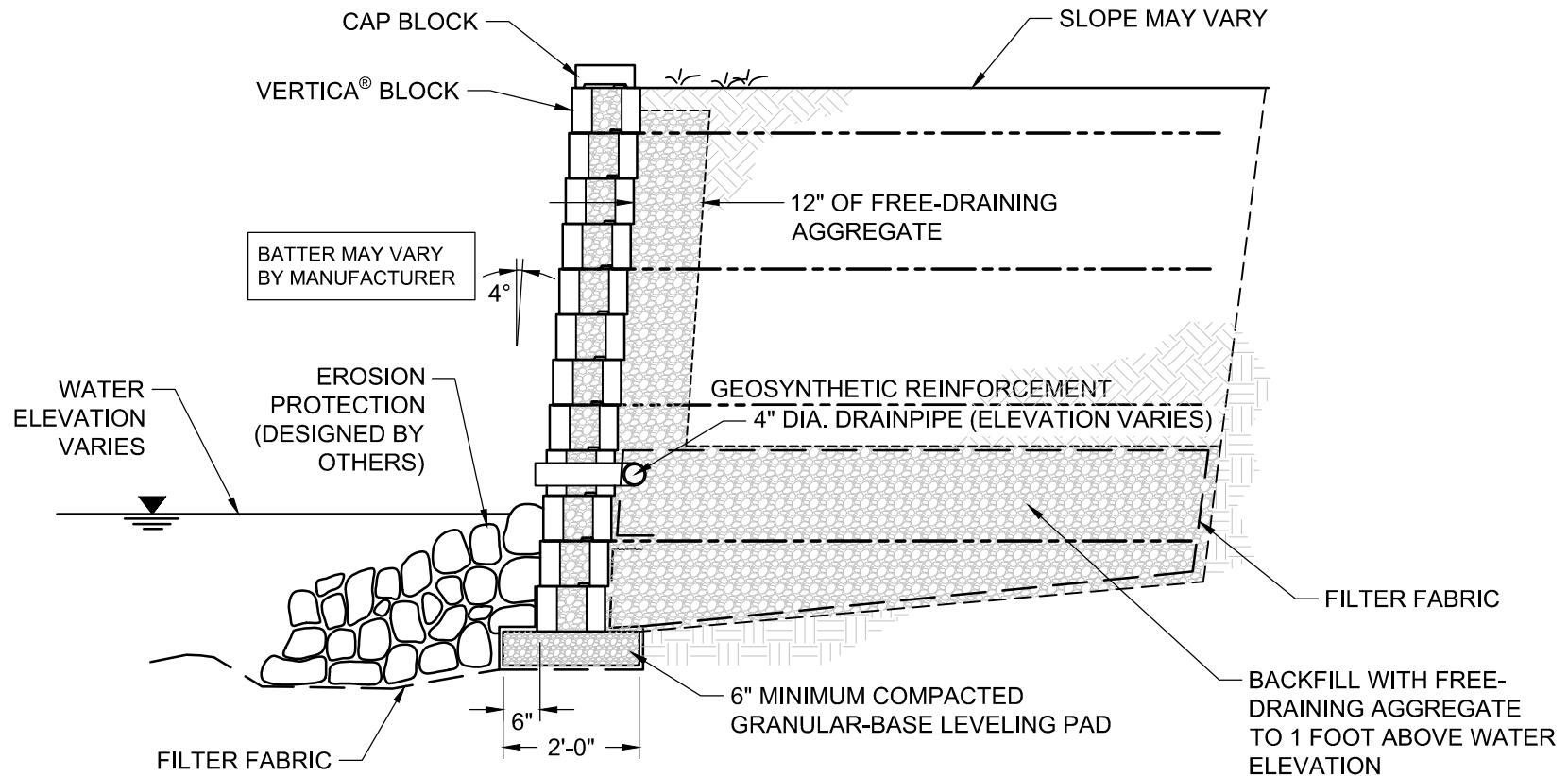
Typical Drainage Swale Cross Section

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

Drawn By:
JB

Date:

Drawing Number:
VERT14



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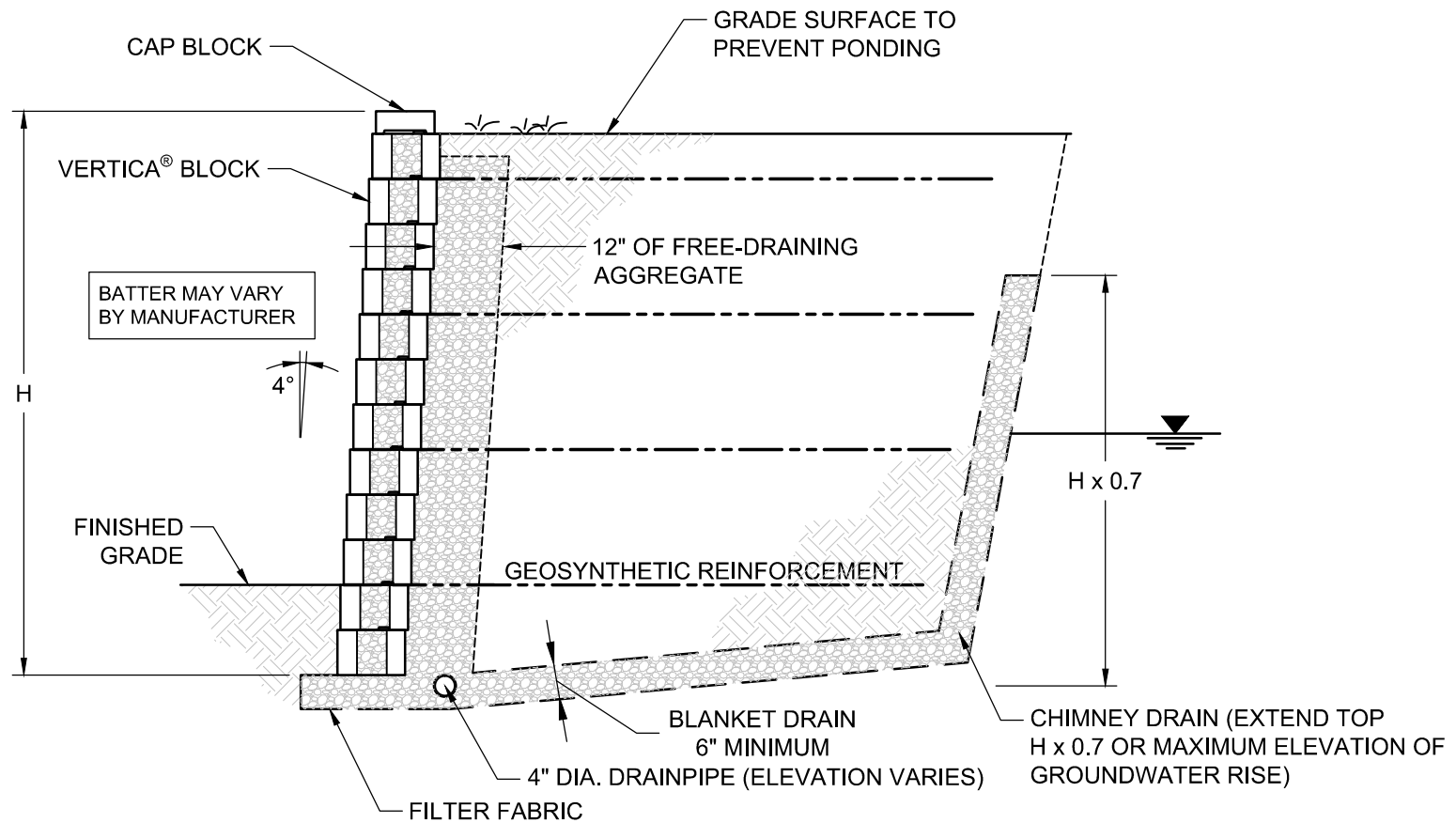
Typical Shore Cross Section

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

Drawn By:
JB

Date:

Drawing Number:
VERT15



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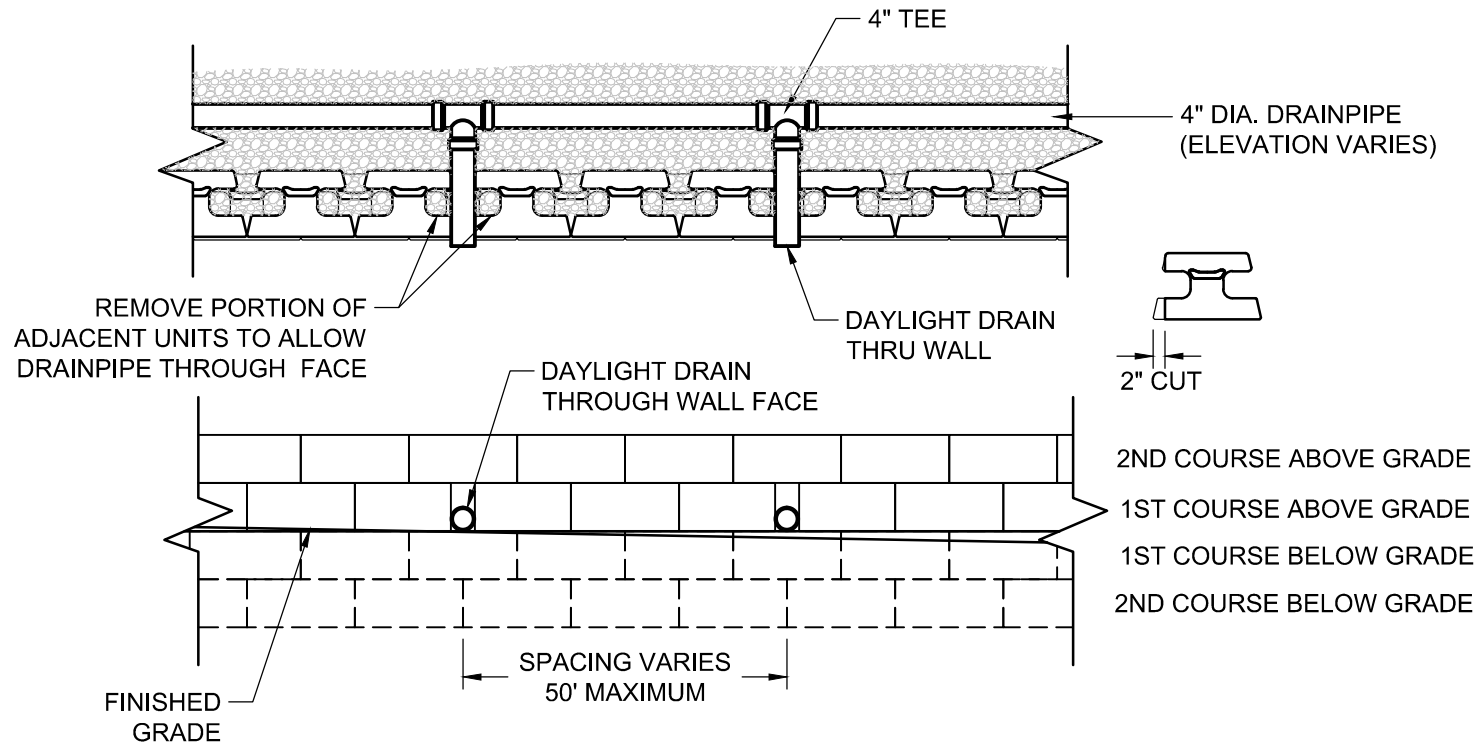
Typical Groundwater Intrusion Cross Section

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

Date:

Drawn By:
JB

Drawing Number:
VERT16



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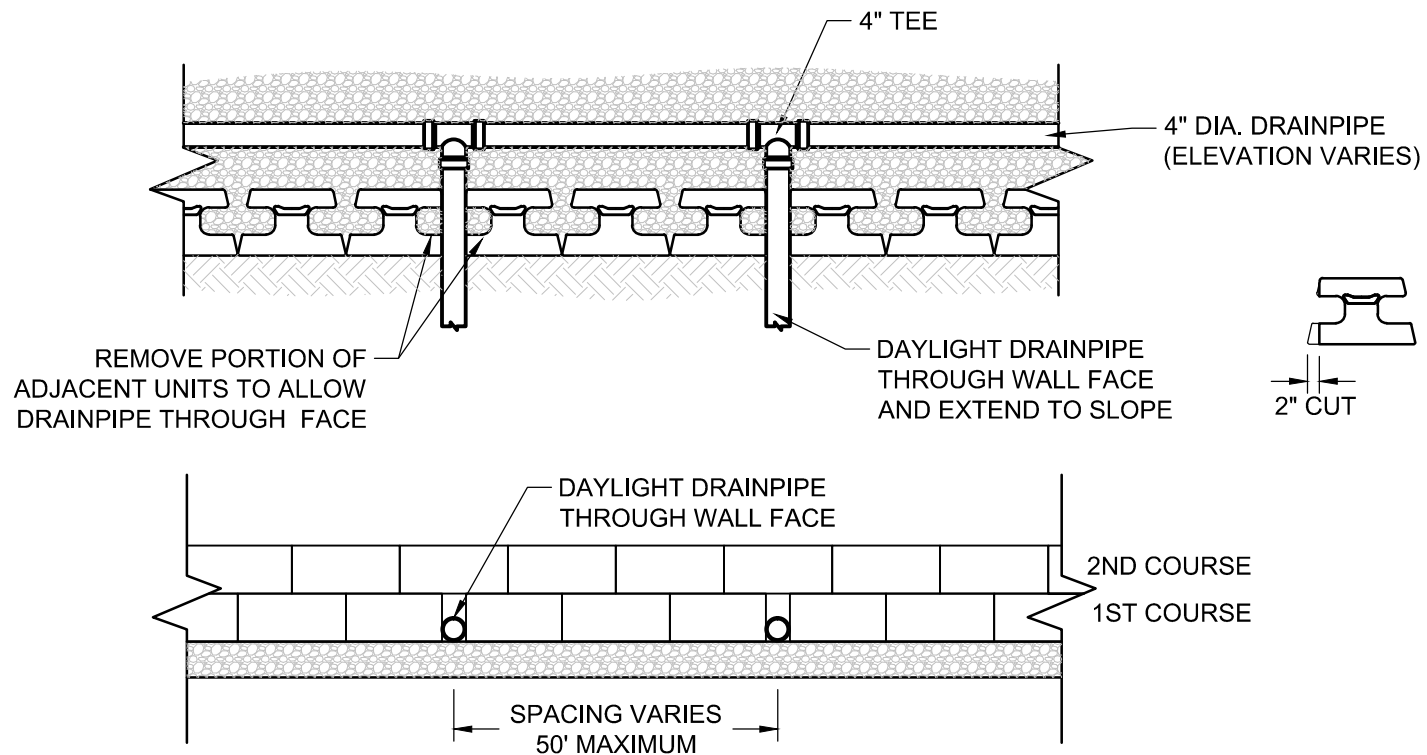
Typical Drain Pipe Through Wall Face

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

Drawn By:
JB

Date:

Drawing Number:
VERT17



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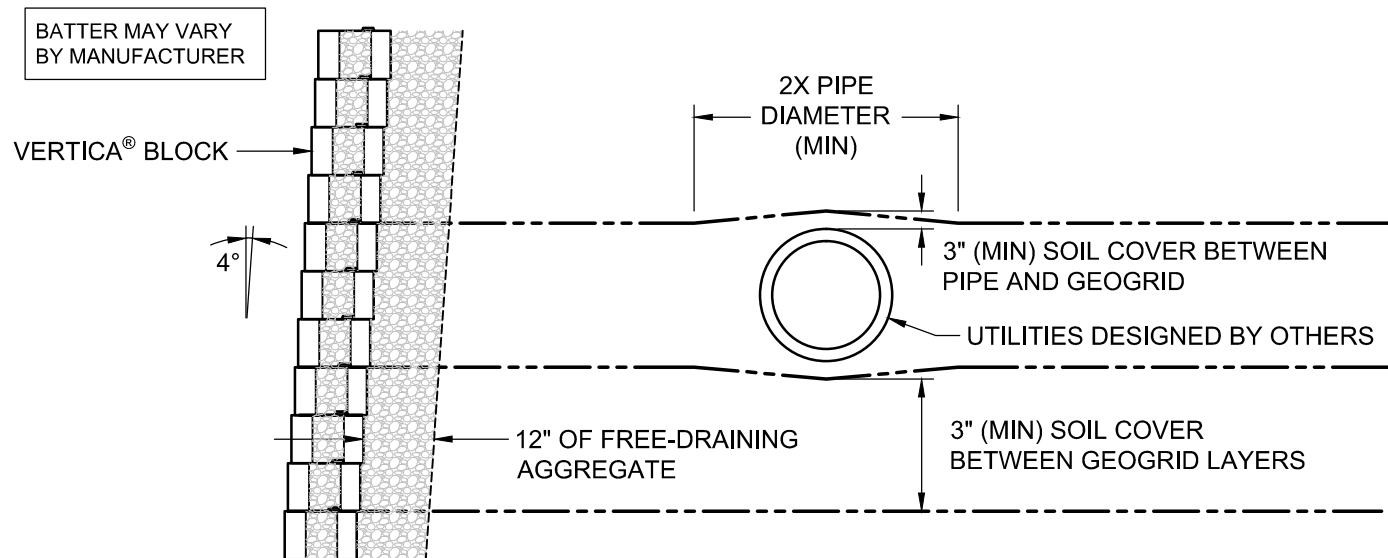
Typical Drain Pipe Through Toe Slope

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

Drawn By:
JB

Date:

Drawing Number:
VERT18



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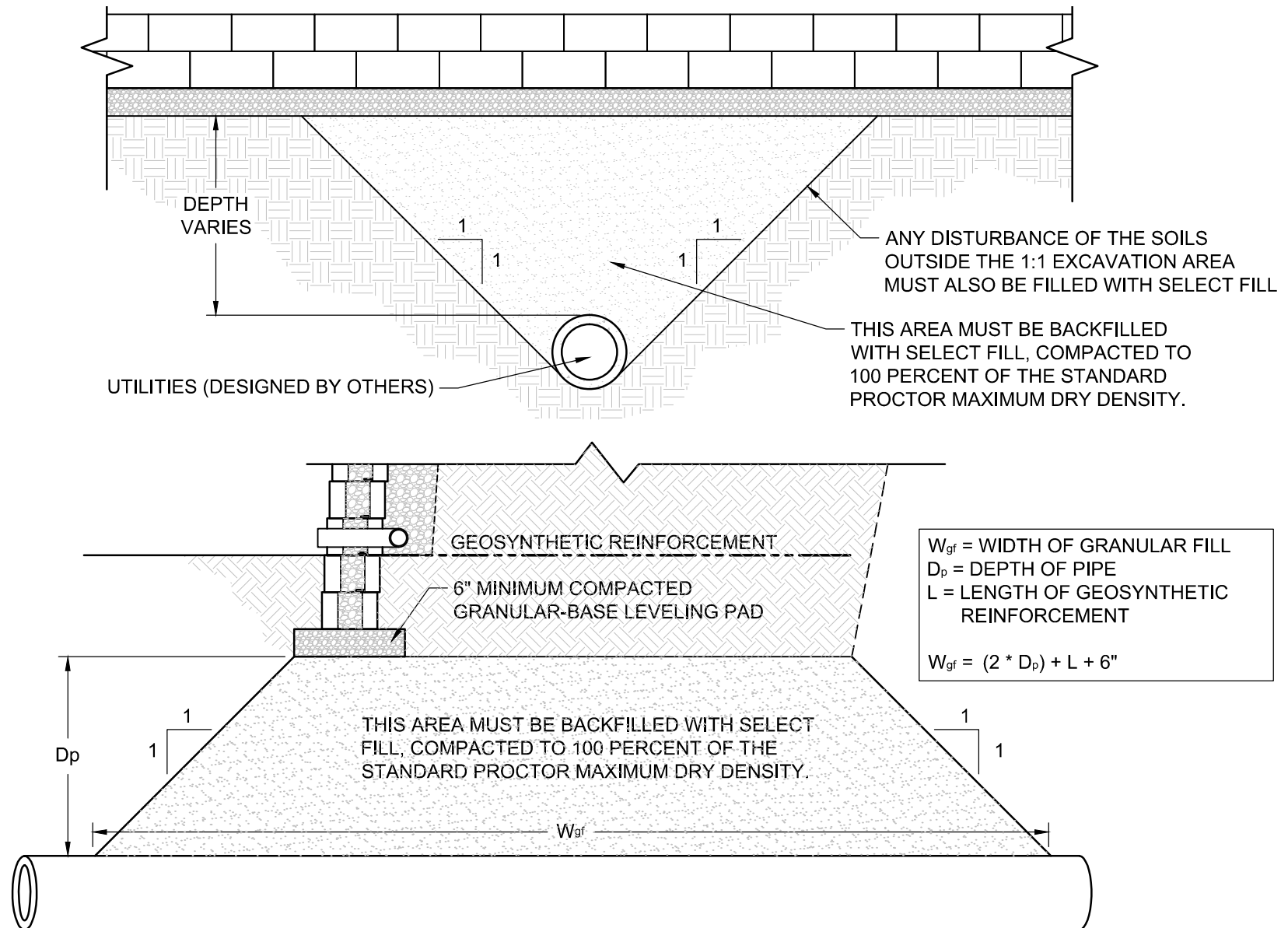
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Vertica® Retaining Wall System

Typical Cross Section with Parallel Utilities

Scale:	Drawn By:
3/8" - 1'-0"	JB
Date:	Drawing Number:
---	VERT19



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Vertica® Retaining Wall System Typical Utilities Below Wall

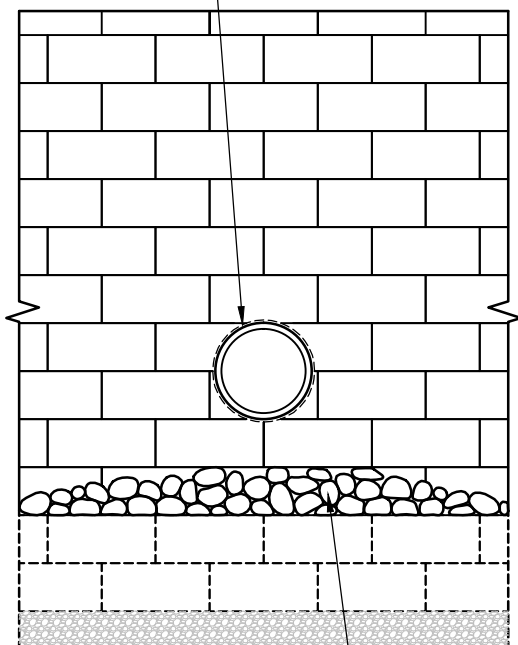
Scale:
3/8" - 1'-0"

Date:

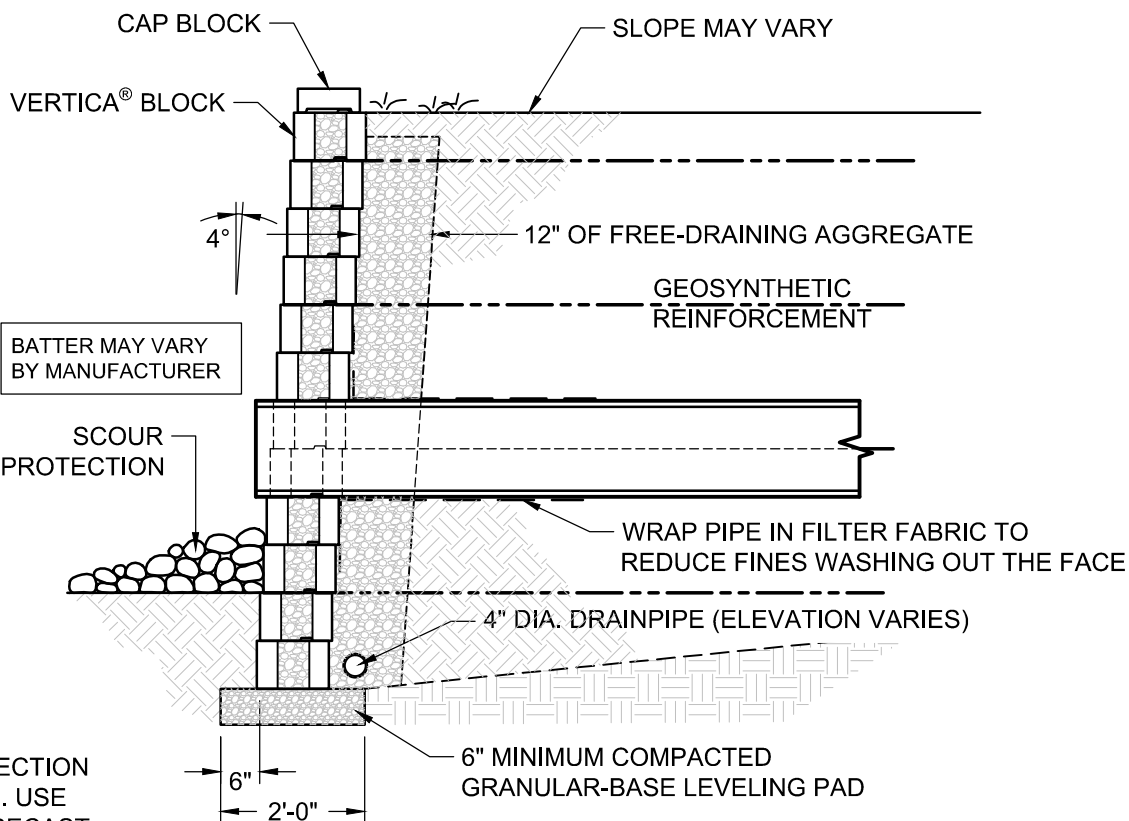
Drawn By:
JB

Drawing Number:
VERT20

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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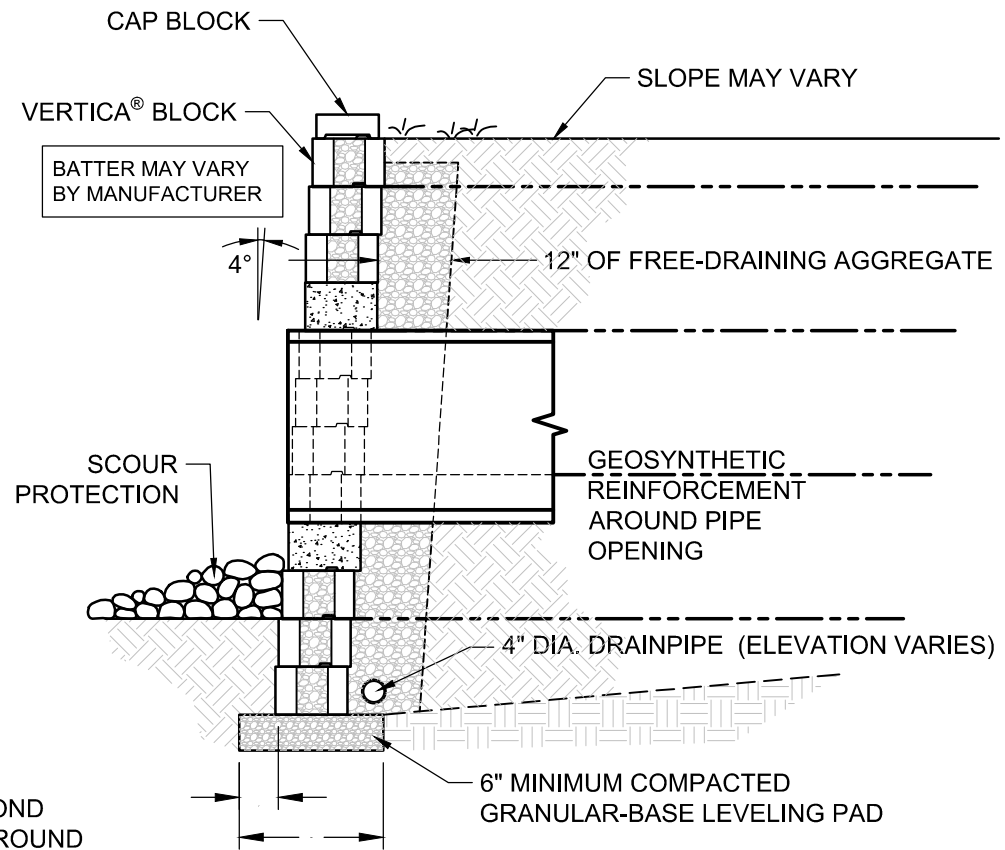
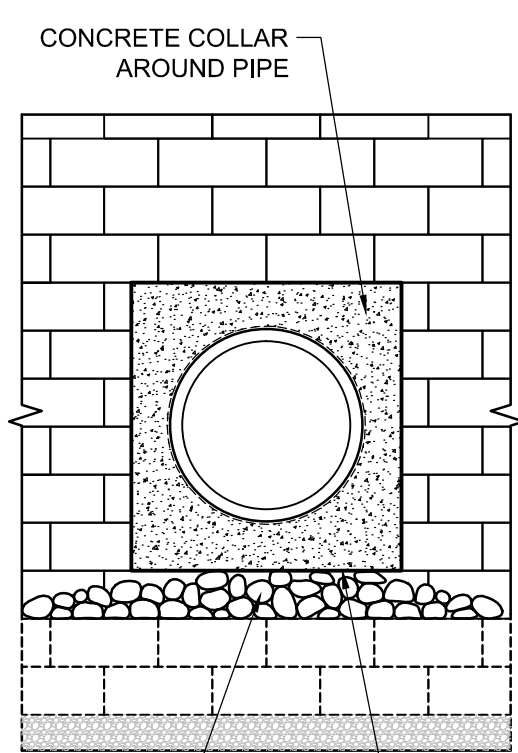
Typical Small Utilities Through Wall

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

Drawn By:
JB

Date:

Drawing Number:
VERT21



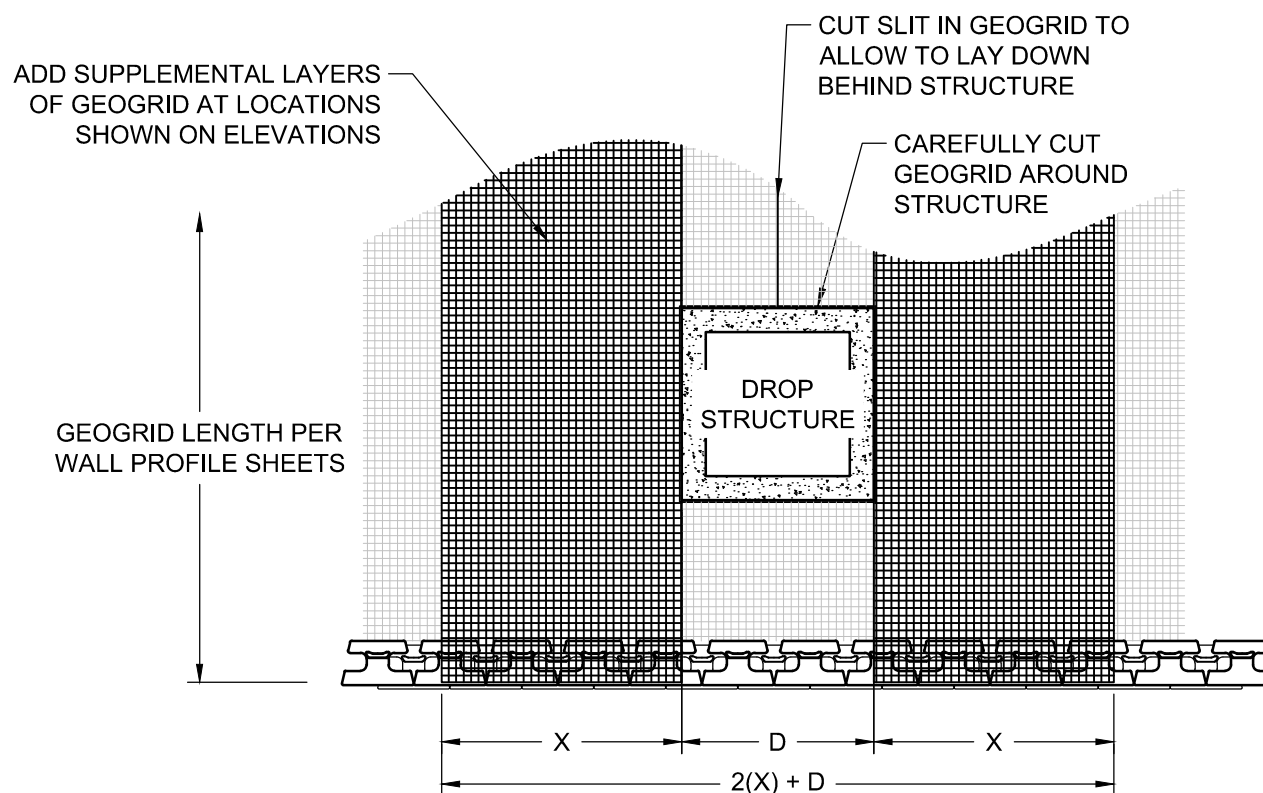
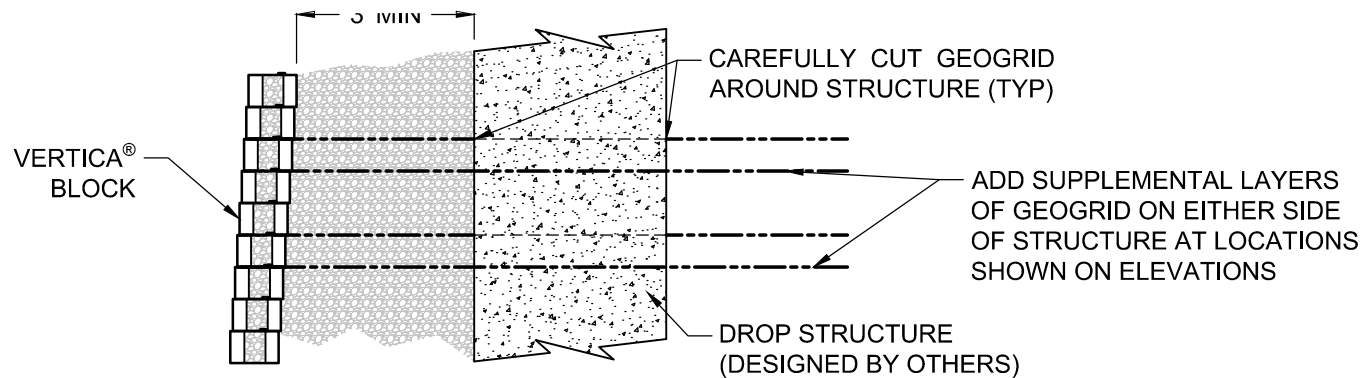
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Vertica® Retaining Wall System Typical Large Utilities Through Wall

Scale:	Drawn By:
3/8" - 1'-0"	JB
Date:	Drawing Number:
---	VERT22



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Vertica® Retaining Wall System

Typical Drop Structure Behind Wall

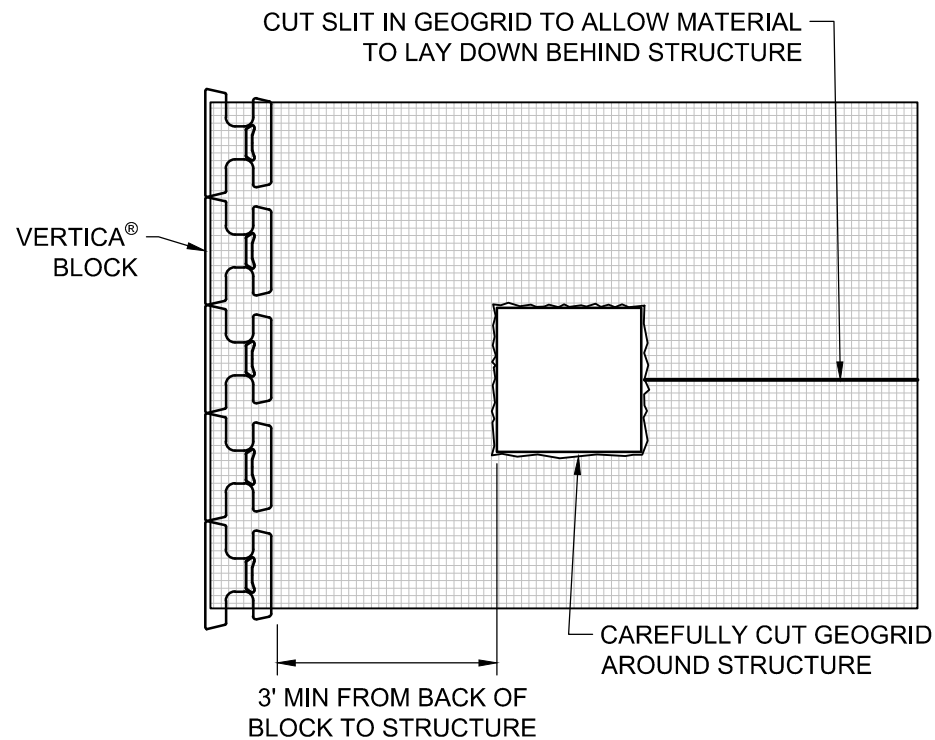
Scale:
1/4" = 1'-0"

Date:

Drawn By:
JB

Drawing Number:

VERT23



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Vertica® Retaining Wall System

Typical Alternate Structure Behind Wall

Scale:

3/8" = 1'-0"

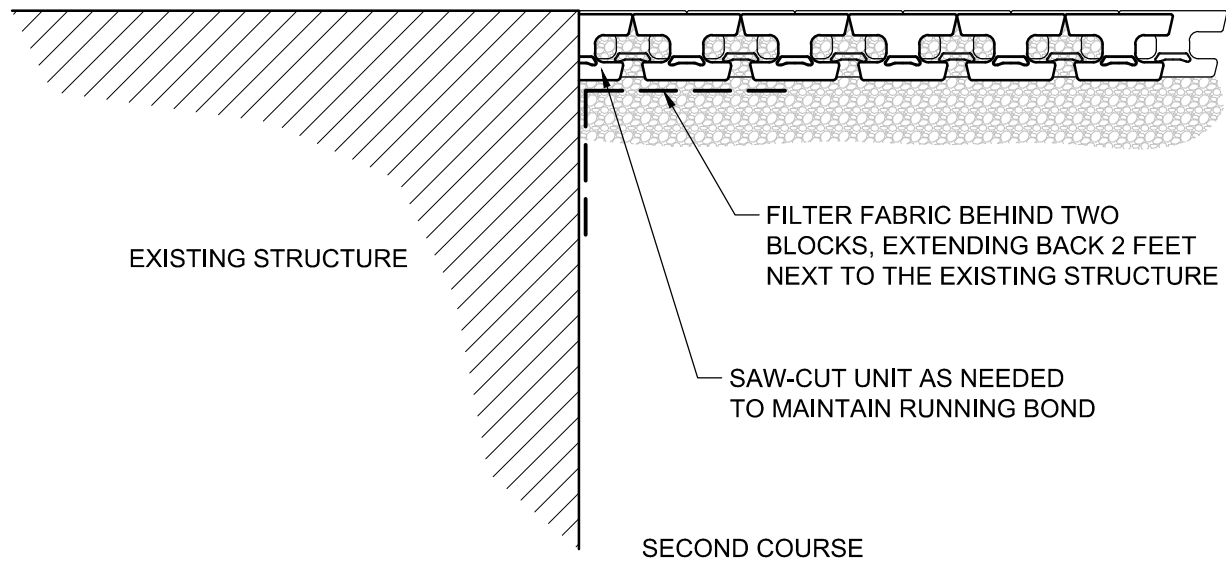
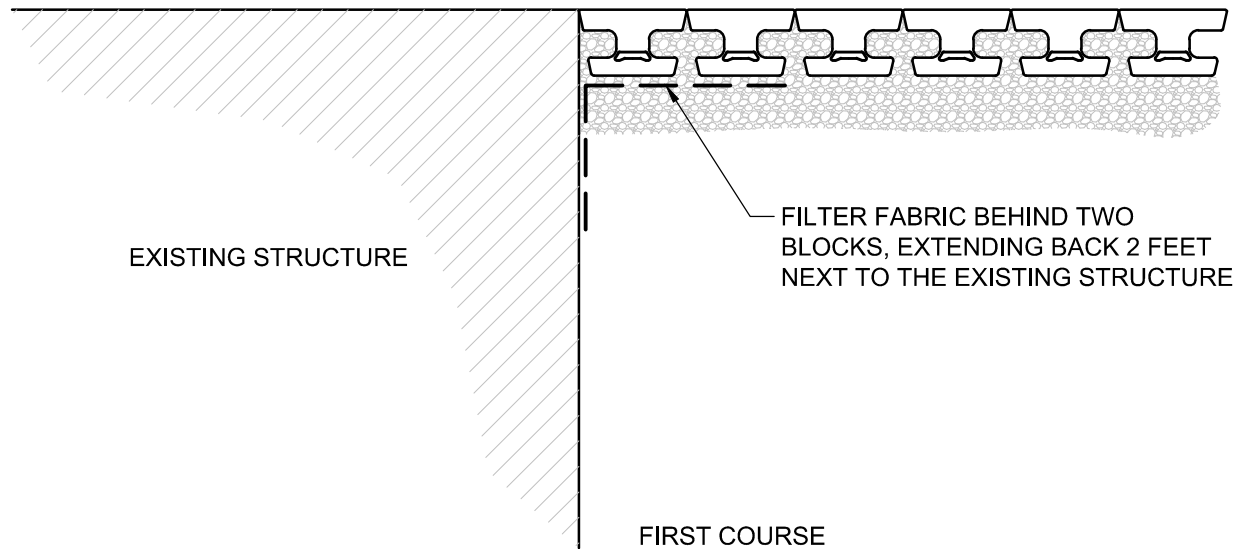
Drawn By:

JB

Date:

Drawing Number:

VERT24



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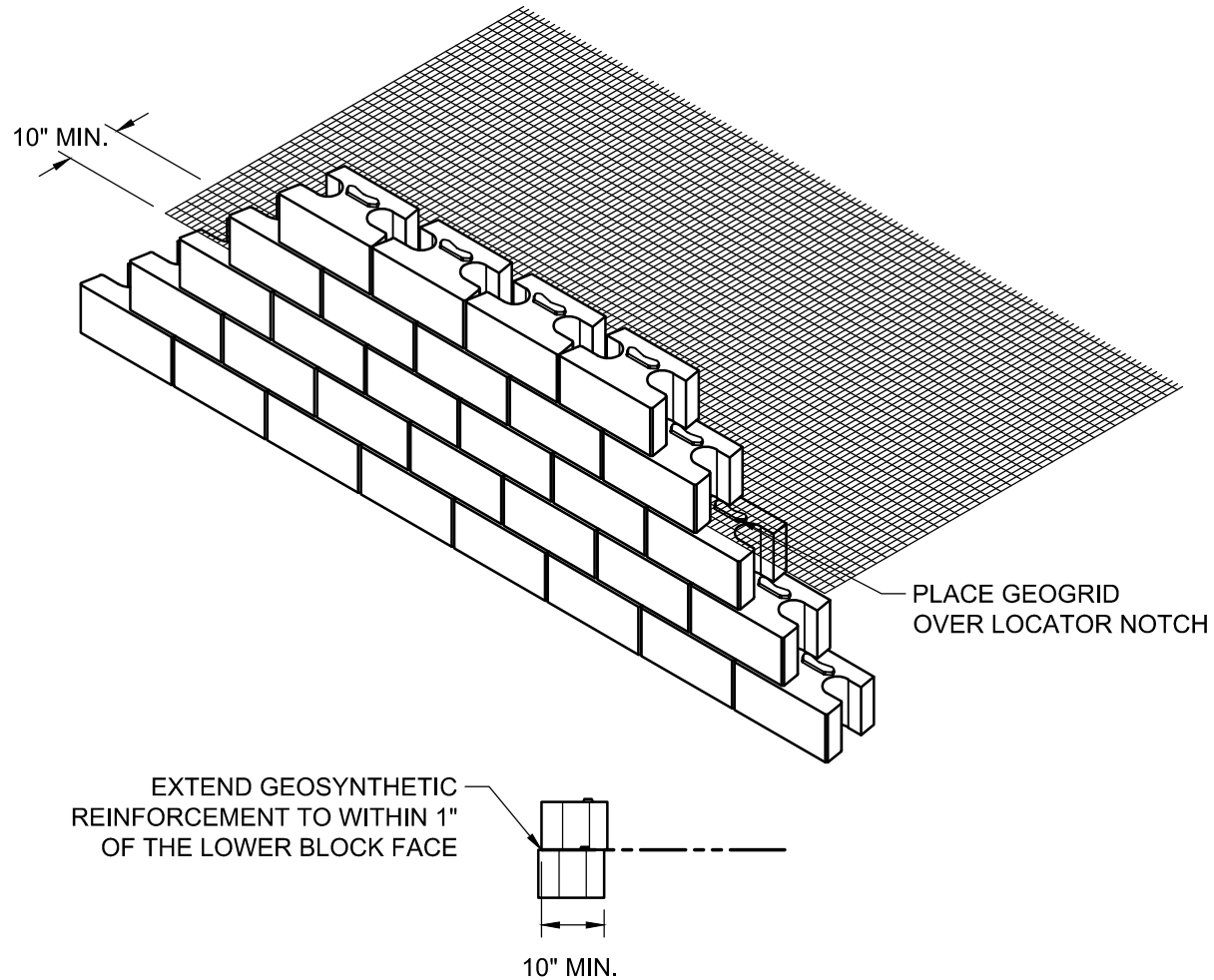
Typical Wall Abutting Structure

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

Drawn By:
JB

Date:

Drawing Number:
VERT25



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Typical Reinforcement Connection

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

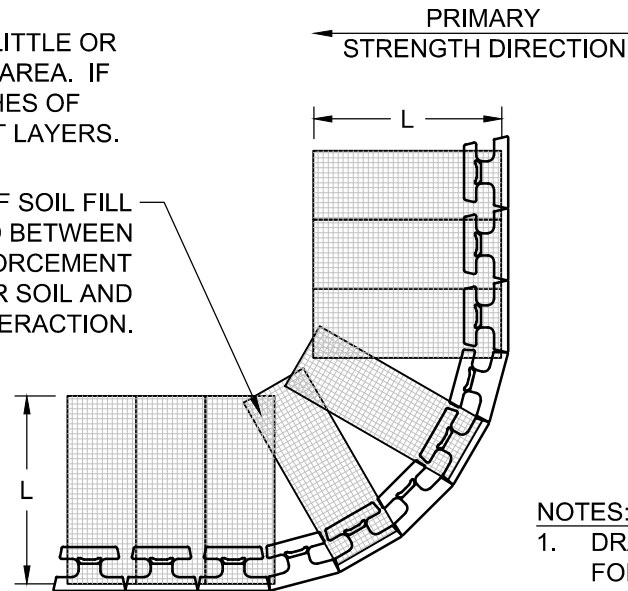
Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT26

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.

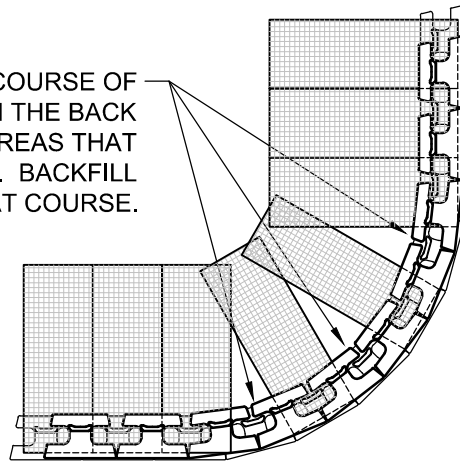
2 TO 3 INCHES OF SOIL FILL REQUIRED BETWEEN OVERLAPPED REINFORCEMENT FOR PROPER SOIL AND REINFORCEMENT INTERACTION.



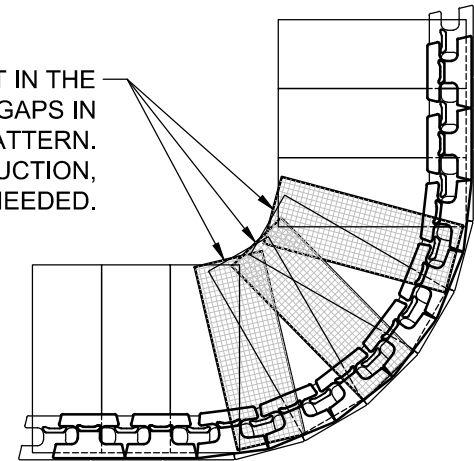
NOTES:

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

Typical Outside Curves

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

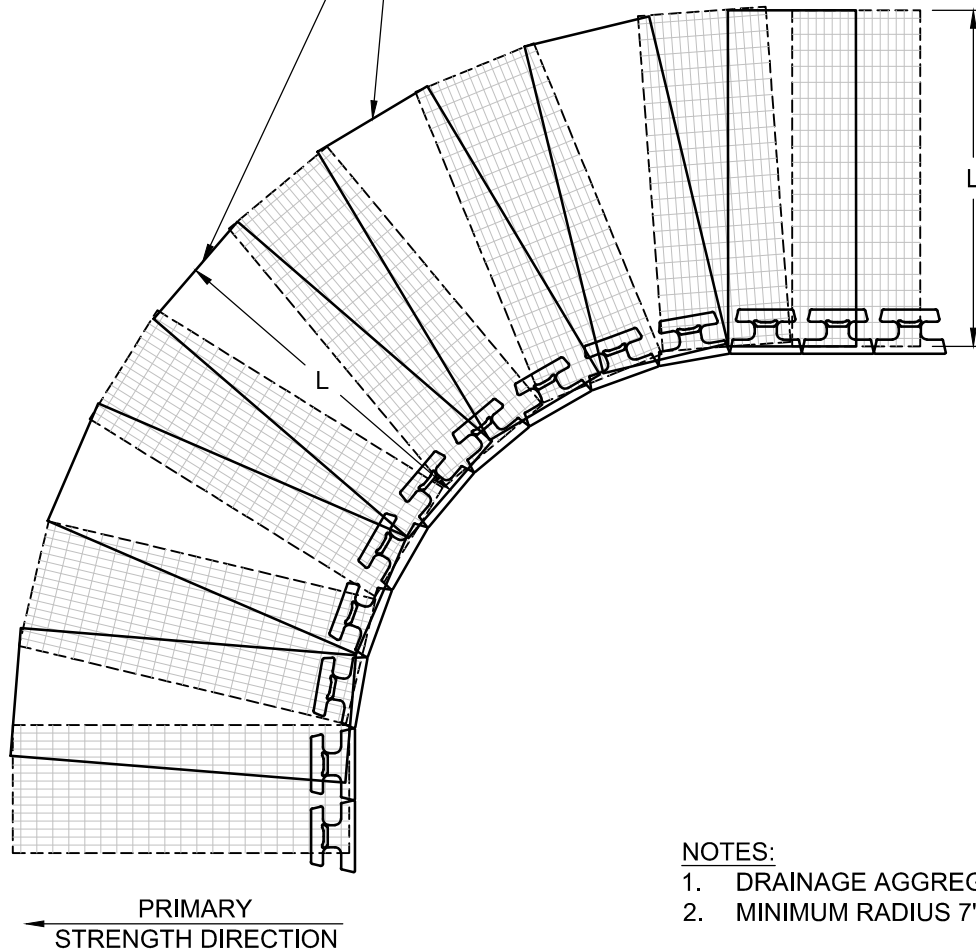
Drawn By:
JB

Date:

Drawing Number:

VERT27

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.



NOTES:

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



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Vertica® Retaining Wall System

Typical Inside Curves

Scale:

1/4" = 1'-0"

Date:

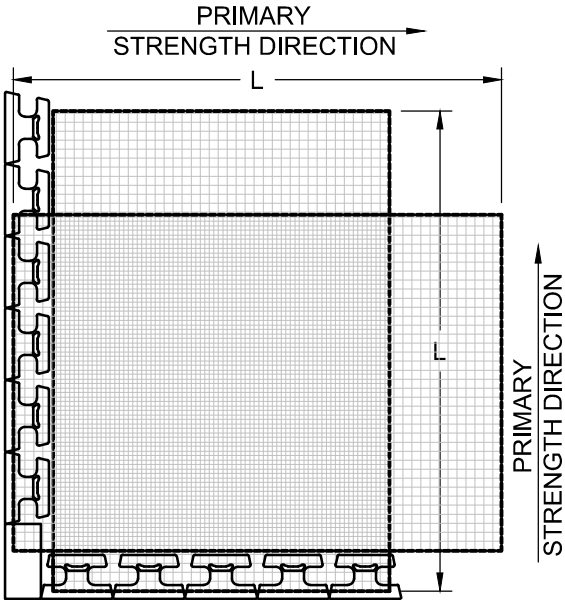
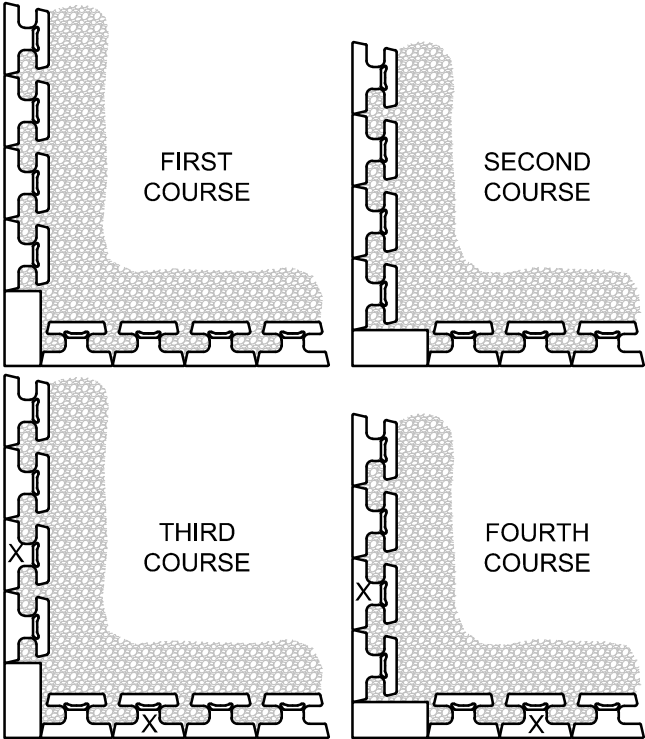
Drawn By:

JB

Drawing Number:

VERT28

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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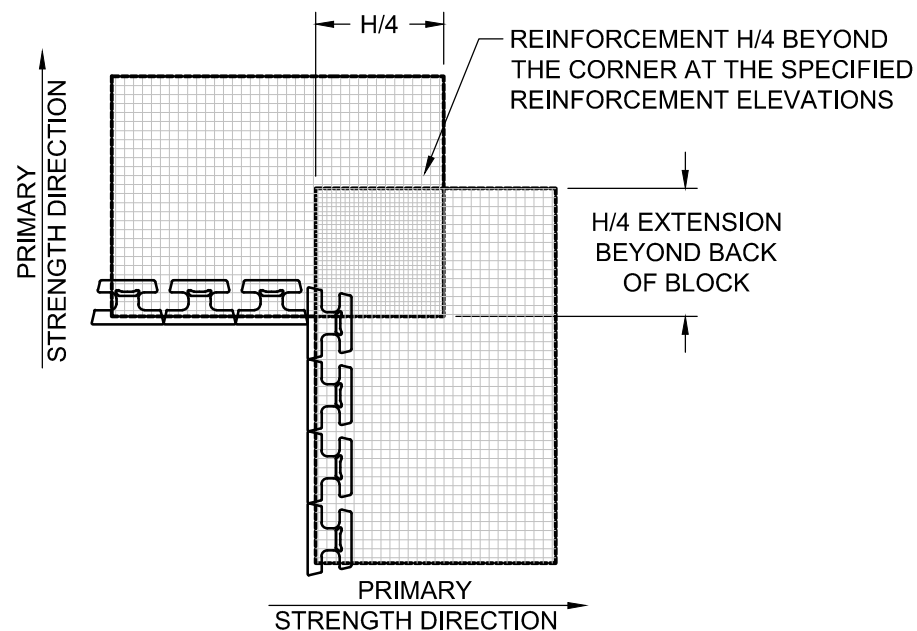
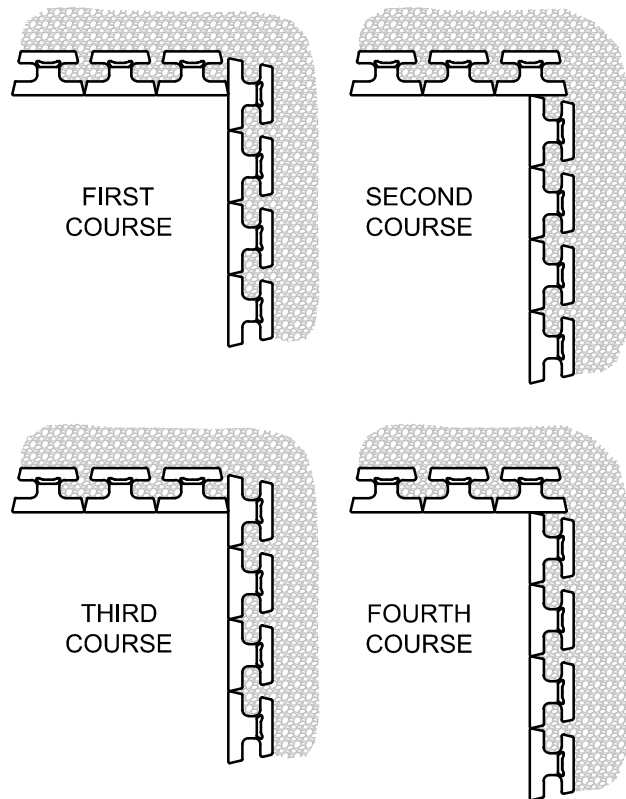
Typical Outside Corners

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

Drawn By:
JB

Date:

Drawing Number:
VERT29



NOTE:
PLACEMENT OF REINFORCEMENT EXTENSION
ON SPECIFIED REINFORCEMENT ELEVATIONS.



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Vertica® Retaining Wall System

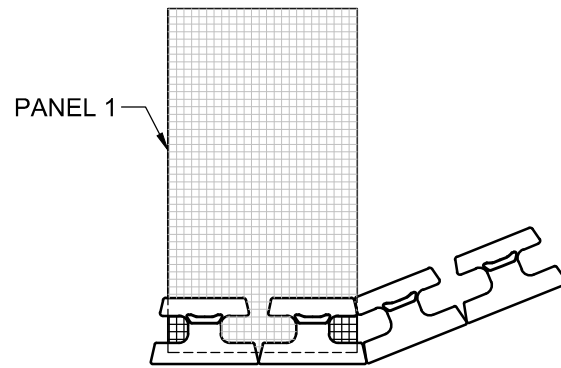
Typical Inside Corners

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

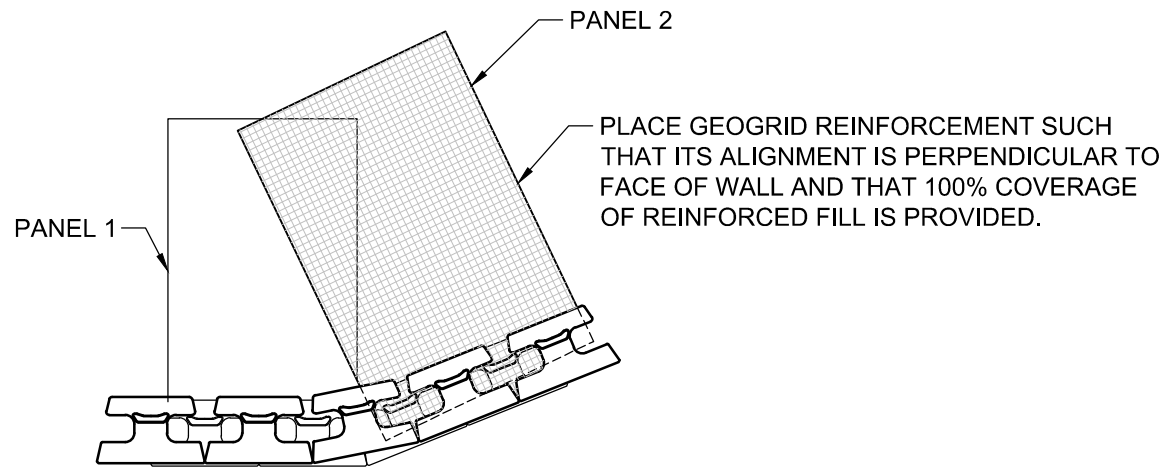
Drawn By:
JB

Date:

Drawing Number:
VERT30



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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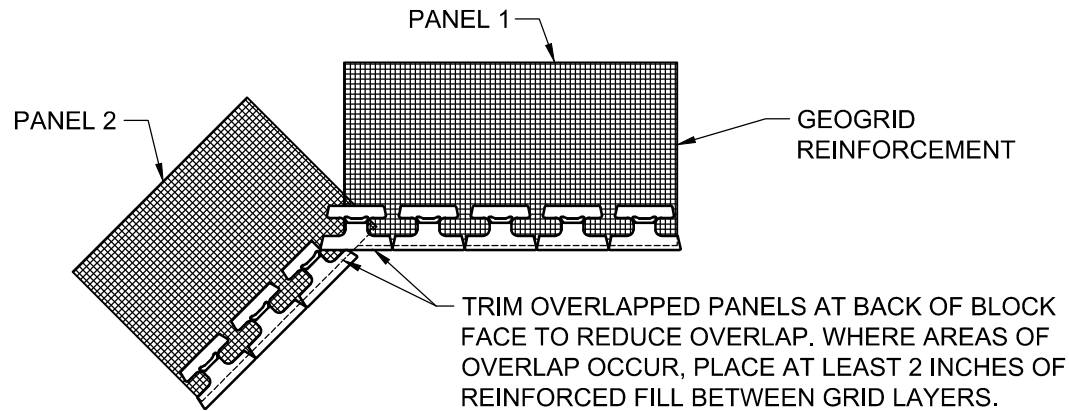
Typical Outside Angles

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

Drawn By:
JB

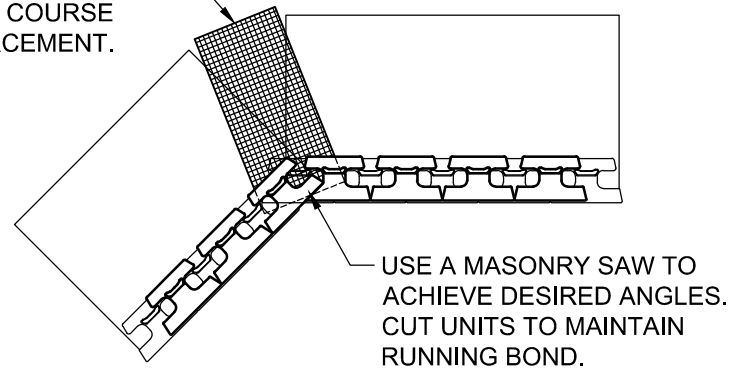
Date:

Drawing Number:
VERT31



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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Vertica® Retaining Wall System

Typical Inside Angles

Scale:

1/4" - 1'-0"

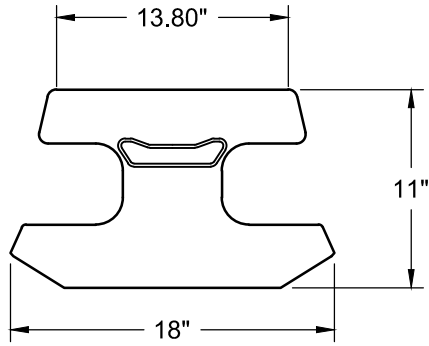
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JB

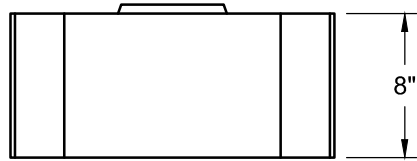
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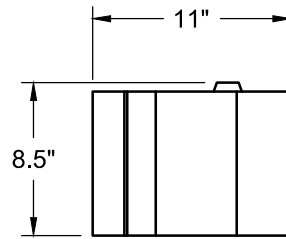
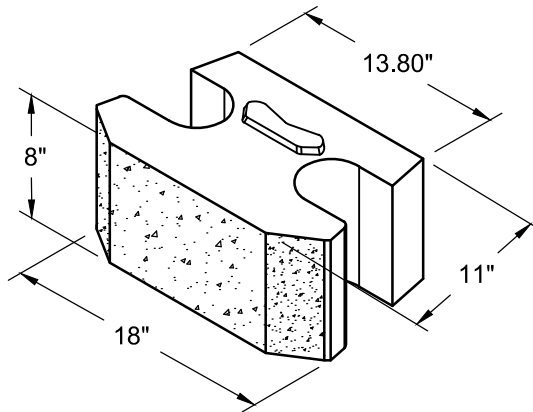
VERT32



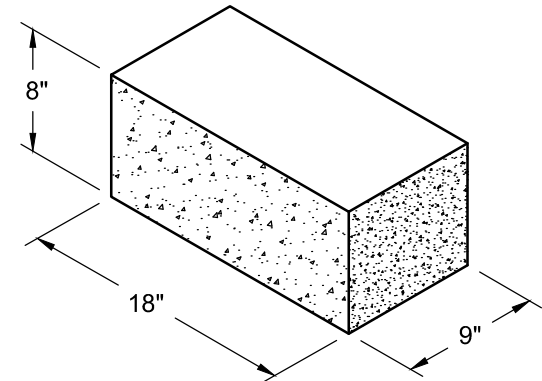
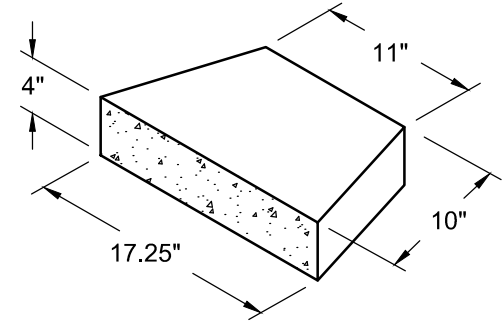
TOP VIEW



FRONT VIEW



SIDE VIEW



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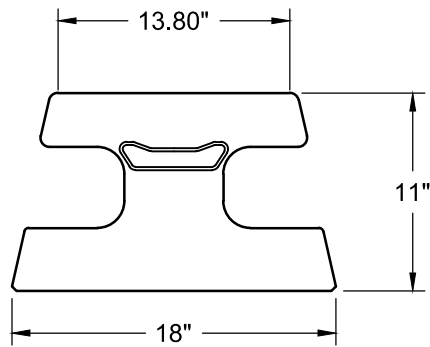
Beveled Unit

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

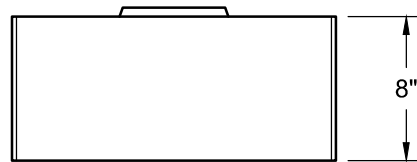
Date:
1/19/2016

Drawn By:
JB

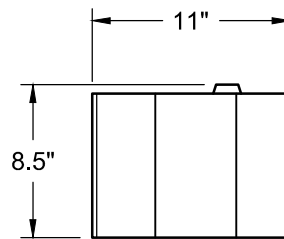
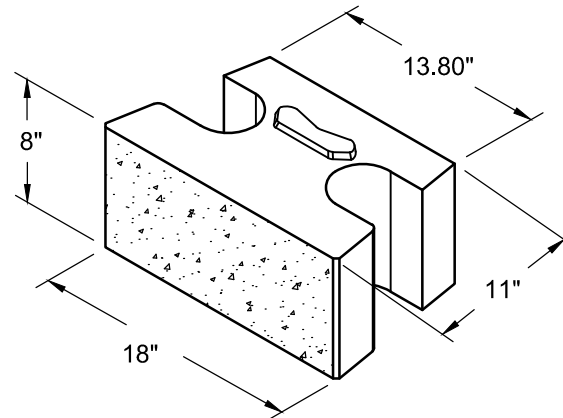
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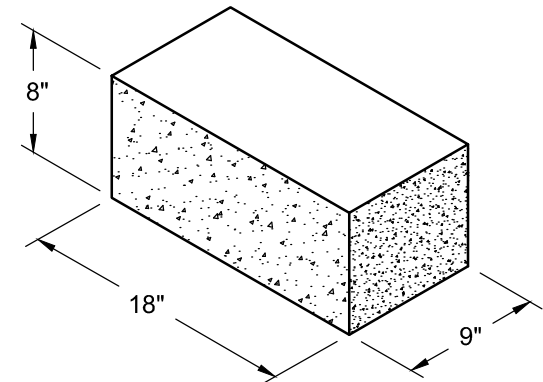
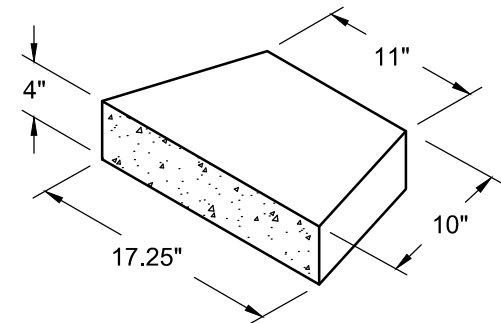
TOP VIEW



FRONT VIEW



SIDE VIEW



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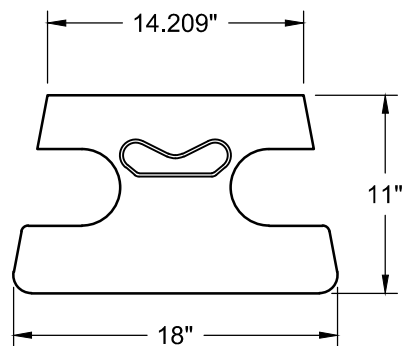
Straight Unit

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

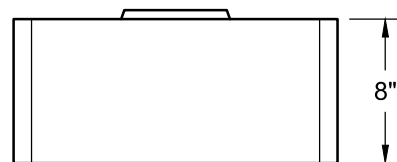
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JB

Date:
1/19/2016

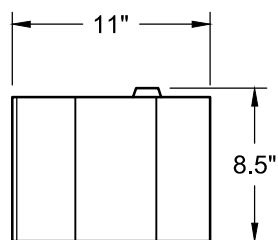
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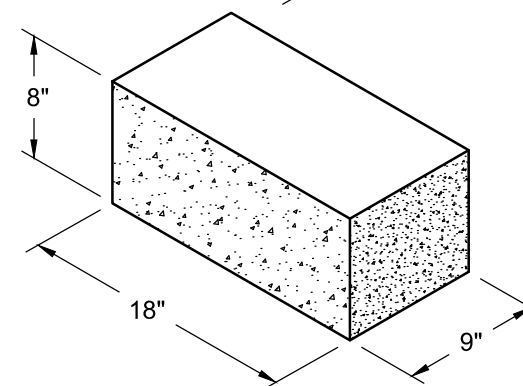
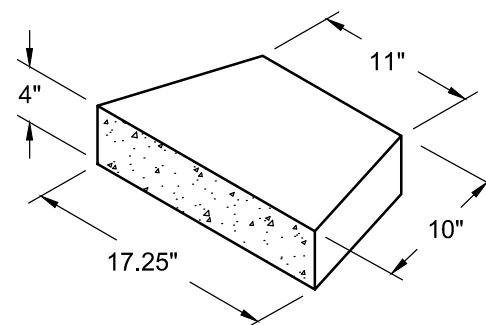
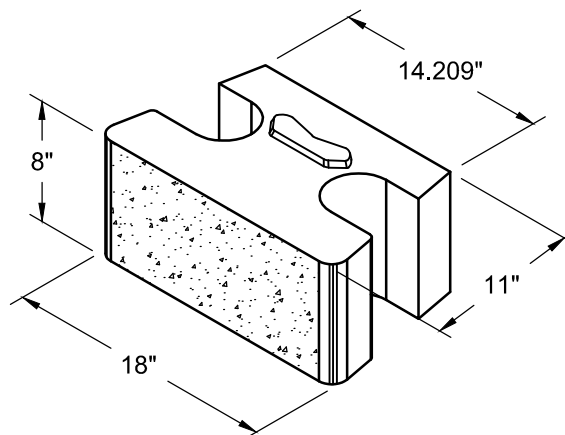
TOP VIEW



FRONT VIEW



SIDE VIEW



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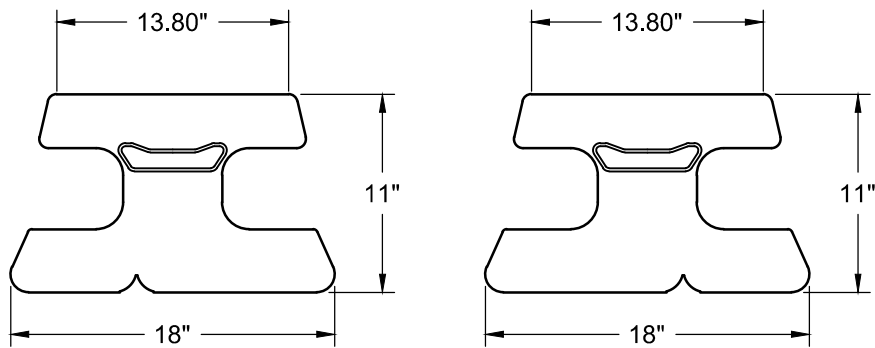
Stone Cut Unit

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

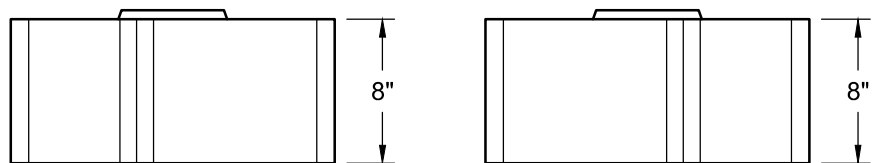
Date:
1/19/2016

Drawn By:
JB

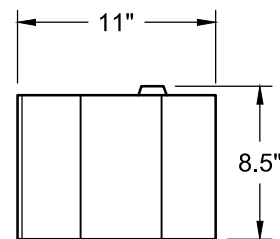
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VERT35



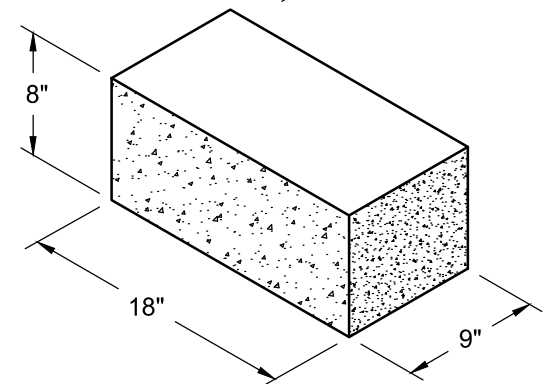
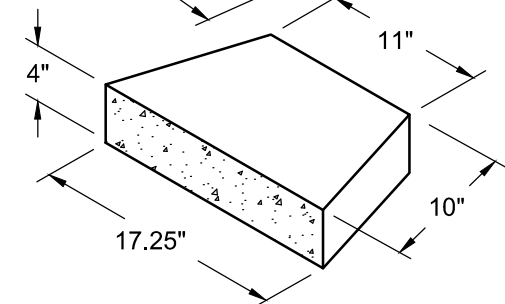
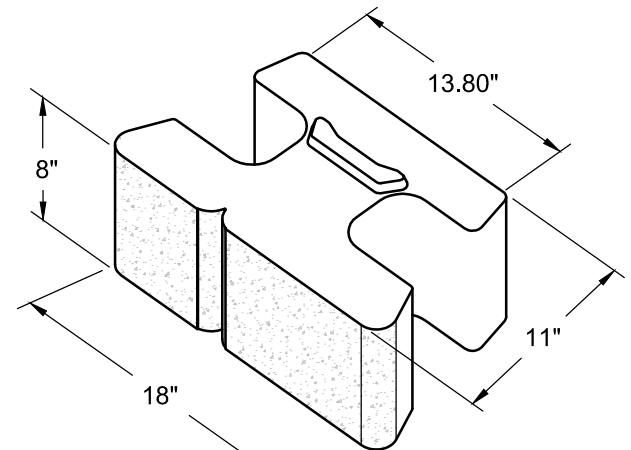
TOP VIEW



FRONT VIEW



SIDE VIEW



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Vertica® Retaining Wall System

Virtual Joint Unit

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

Drawn By:
JB

Date:
1/19/2016

Drawing Number:
VERT36