

G12-8 (8" x 18" x 12")

1. Each block = 1 sq ft wall face
- wall: 100' L x 5' H (500 sq ft) = 500 blocks
2. Each core = 0.31 cubic ft of core fill
3. Setback (batter)
- Bevel top of split face = 0.35" / course or 2.5°
- First Groove = 1"
- Second Groove = 2"
4. Radius = 4.5'
5. Weight = 72 lbs

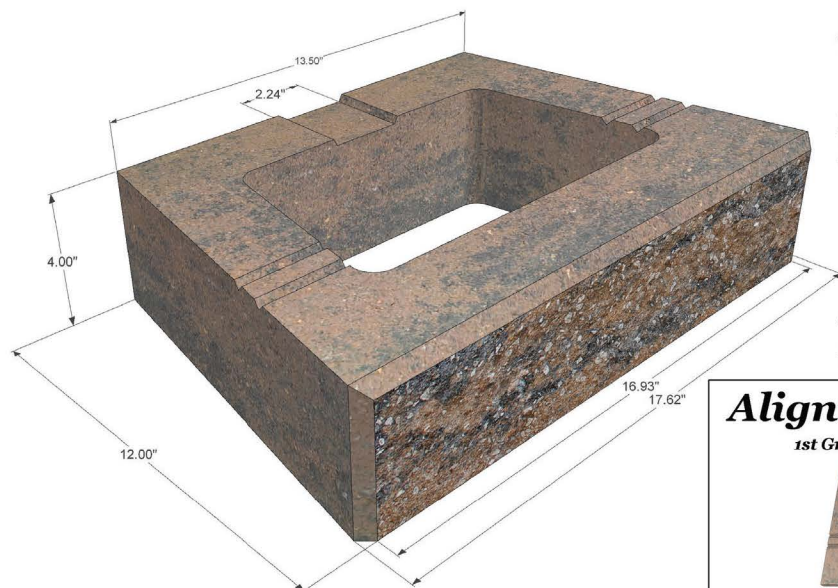
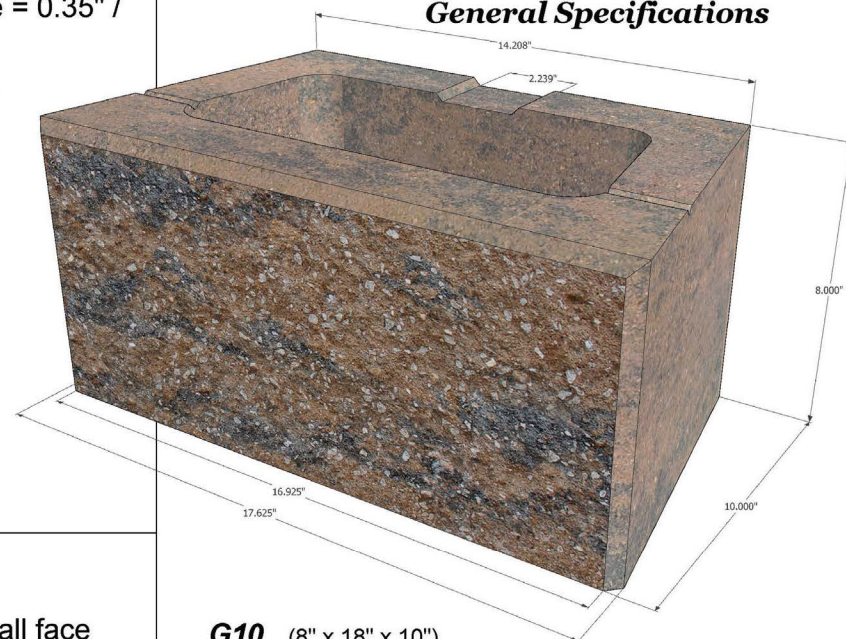


SCAN ME

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DOCUMENT - PDF



General Specifications



G12-4 (4" x 18" x 12")

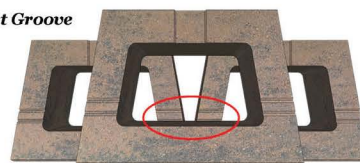
1. Each block = 1/2 sq ft wall face
- wall: 100' L x 5' H (500 sq ft) = 1000 blocks
2. Each core = 0.16 cubic ft of core fill
3. Setback (batter)
- Bevel top of split face = 0.35" / course or 5°
- First Groove = 1"
- Second Groove = 2"
4. Radius = 4.5'
5. Weight = 36 lbs

G10 (8" x 18" x 10")

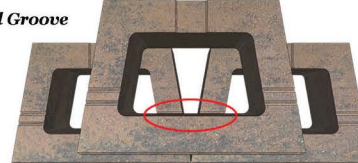
1. Each block = 1 sq ft wall face
- wall: 100' L x 5' H (500 sq ft) = 500 blocks
2. Each core = 0.3 cubic ft of core fill
3. Setback (batter)
- Bevel top of split face = 0.35" / course or 2.5°
- First Groove = 1"
4. Radius = 4.5'
5. Weight = 55 lbs

Alignment

1st Groove

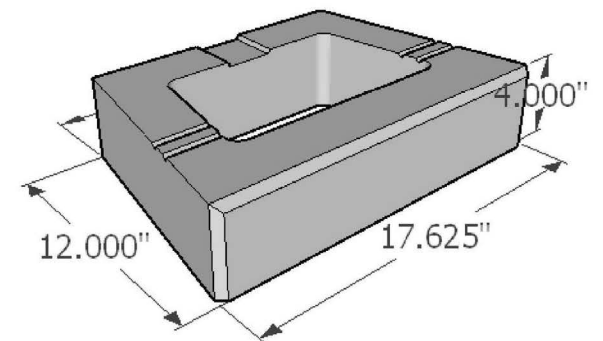
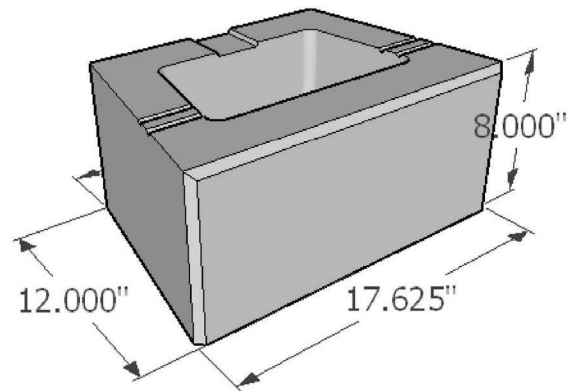
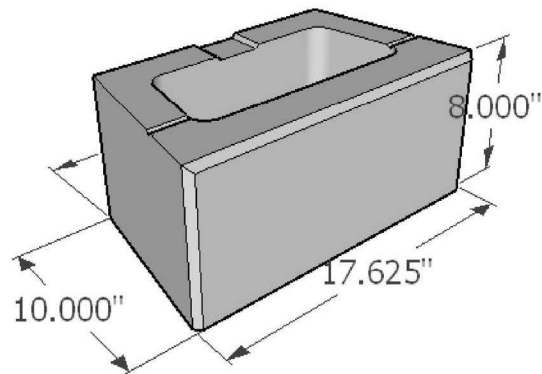
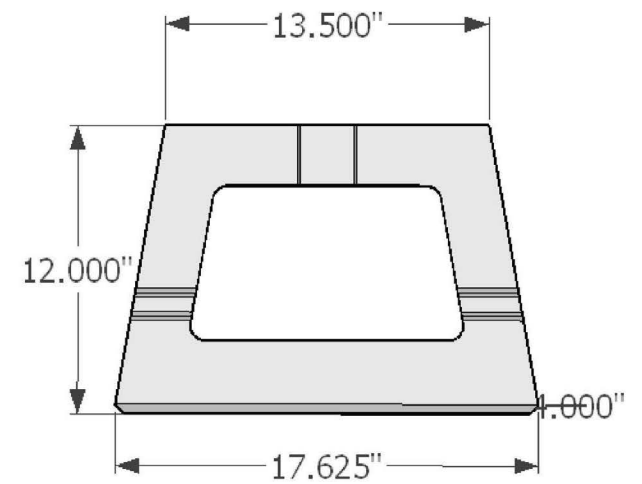
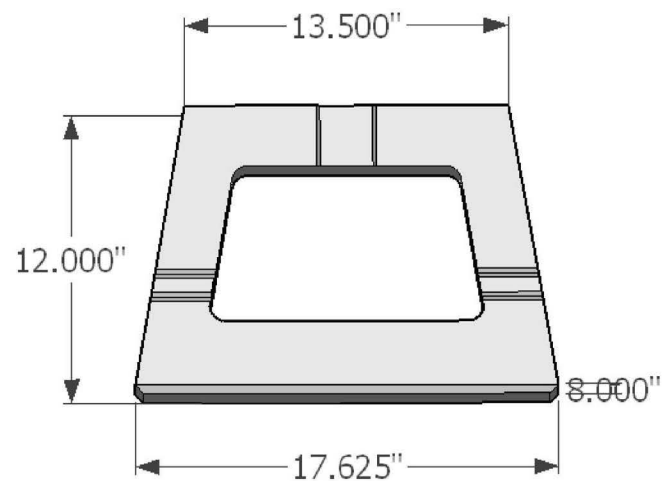
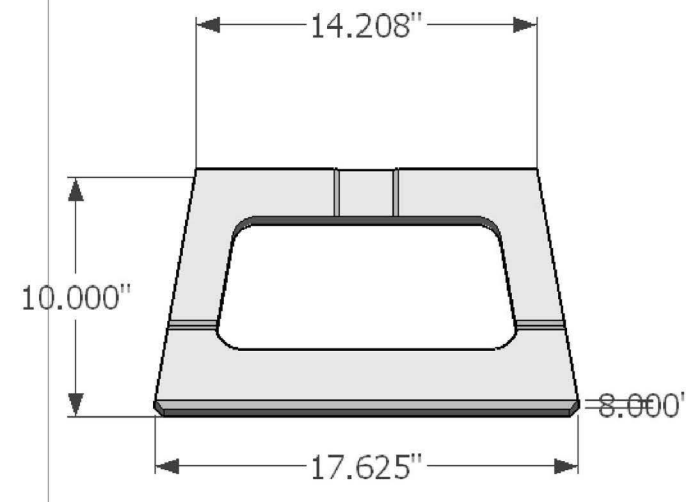


2nd Groove



Bevel Top





G10 - 8"h x 17.625"w x 10"d

G12:8 - 8"h x 17.625"w x 12"d

G12:4 - 4"h x 17.625"w x 12"d



REINFORCED RETAINING WALL

NOTE: The following is an example of a typical GeoStone installation. Not all walls require the same techniques. GeoStone recommends consulting with an Authorized GeoStone representative or professional installer before undertaking such a project. Check with your local municipality before starting any construction project for applicable regulations and permits that may be required.



Begin by digging a two foot wide trench. Excavate all loose soils and native rock until hard original ground is reached. The footing will be supporting the entire weight of the wall.



The footing depth will vary based on the the height of the wall. Rule of thumb is 1 inch of embedded block per vertical foot of wall height is required. Place four to six inches of crushed rock (#78 or #8910) in the footing and level for the wall foundation.



As preparation of the footing continues, remove all large rocks and use a vibrating plate tamp to achieve proper compaction. Get footing as smooth, level, and compacted as possible.



Run a string line for straight walls. This will help in the alignment of the first course. Use a cement trowel to smooth out base prior to setting first block.



When laying the first course, level the block front to back and side to side with a two foot carpenter's level. *It is very important that the first course be placed on a compacted footing and leveled before preceding.*



It is always a good idea to shoot grades from time to time to ensure your wall is maintaining the correct level.



Align and batter each course prior to core filling with rock. Batter means setting each course back 1/4 - 1/2 inch behind the course below as seen in the picture above. On straight walls, use a string line. In curves, visually align the wall to achieve the desired appearance.



It is recommended that the cores of the block be filled with a #67 or #78 stone no less frequently than every three courses. This same stone is recommended for the backfill as well.



After core filling the block, use a rod to drive down into the cores to assure a thorough core fill. Backfill should be level to top course of block.



Compacting the backfill is very important. This provides additional resistance to pressures exerted on the wall and prevents settlement. Repeat this process after each backfill.



Sweep all rock and gravel from the tops of the blocks before laying down next course or geogrids. Any variance in height caused by rocks between courses will cause unsightly gaps. Backfill area should encompass entire proposed grid length area.



Next lay out the geogrids. Their length will depend on the wall height. Rule of thumb is no less than 75% of wall height (no shorter than 4') and no less frequent than every 2 vertical feet.



After laying out the grids, place another course of block down on top of the grids, align, then core fill and backfill. It is important that the grids be stretched tight prior to placing rock fill.



This process is repeated until the desired wall height is reached. The final course is the cap block glued down with outdoor construction adhesive.



GEOSTONE
RETAINING WALL SYSTEMS
P.O. BOX 325 - WESTOVER, AL 35185 • 205-678-9969
WWW.GEOSTONE.COM

Note: Walls shown here are designed with all-rock backfill. Site soils can be used in the reinforced zone under the right circumstances using the correct installation procedures. Please check with your wall designer or professional modular wall installer prior to using site soils.



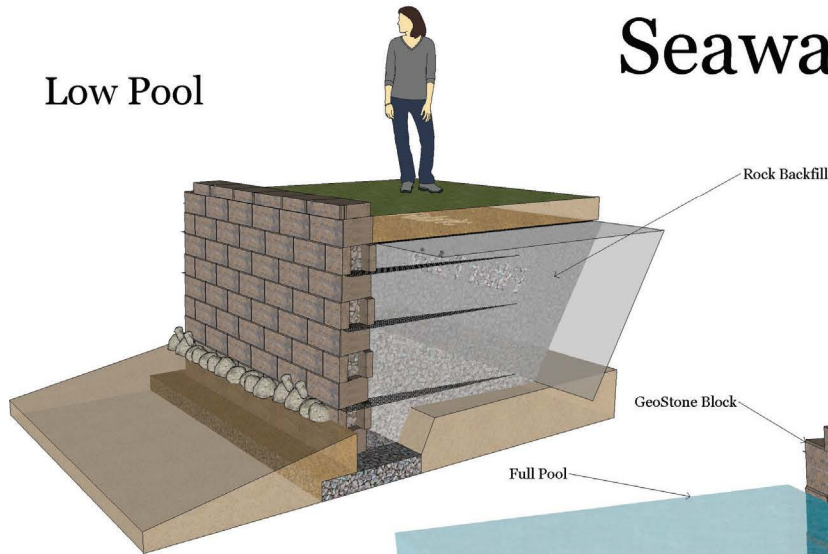
The left diagram illustrates a retaining wall with a filter fabric and gravel layers. The wall height is 10.3'. The gravel layers are 6.5' thick. The filter fabric is 1.7' thick. The wall is constructed of concrete blocks. The base is non-permeable material. The wall is labeled 'Filter Fabric'.

The right diagram illustrates a retaining wall with a 4-inch perforated drain pipe and gravel layers. The wall height is 10.33'. The gravel layers are 6.00' thick. The drain pipe is 4" Perforated Drain Pipe. The wall is labeled '4" Perforated Drain Pipe Daylight through face of wall per design'.

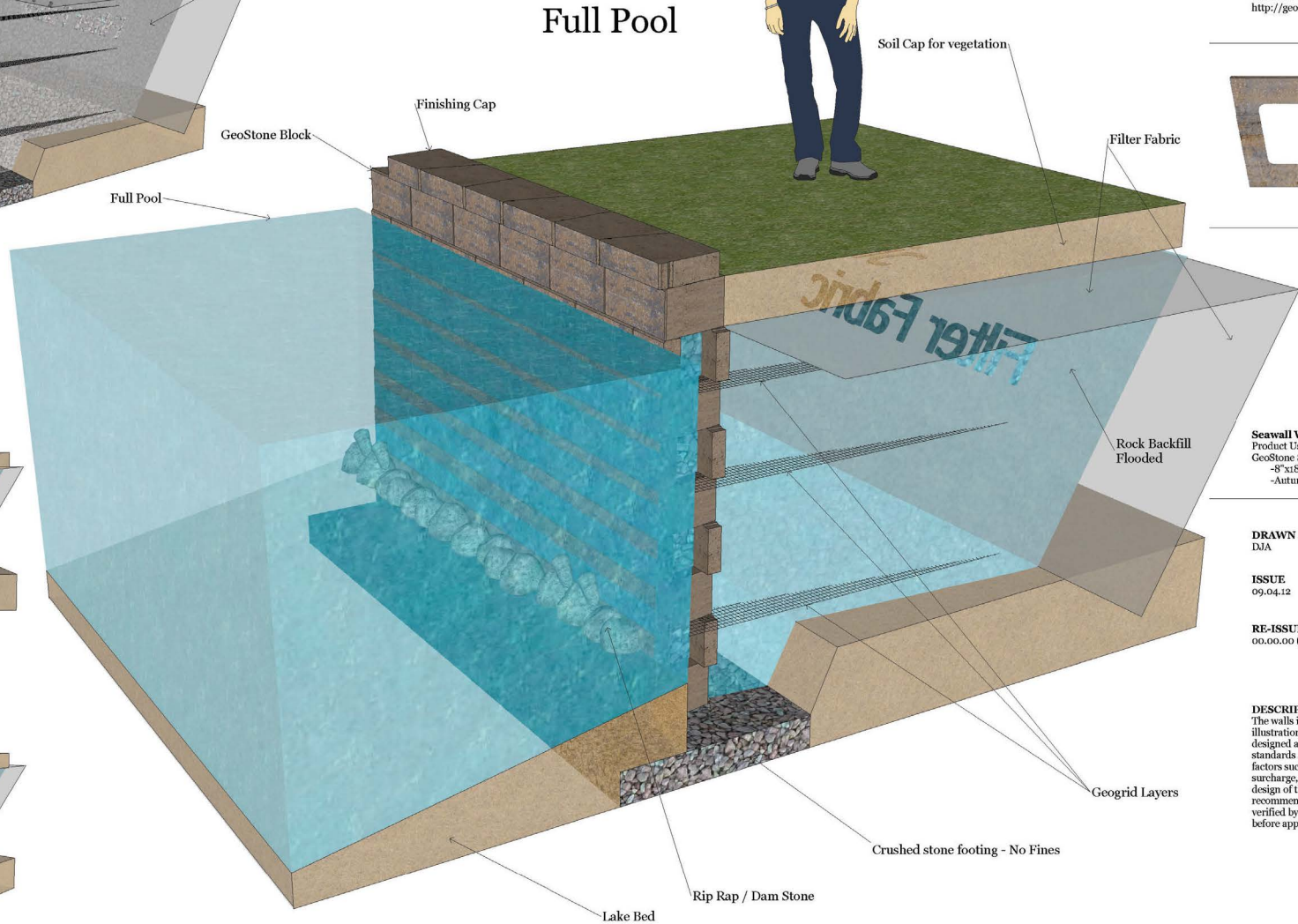
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Seawalls

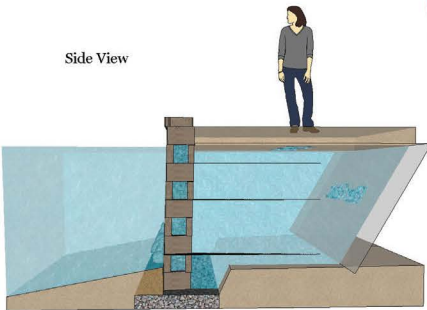
Low Pool



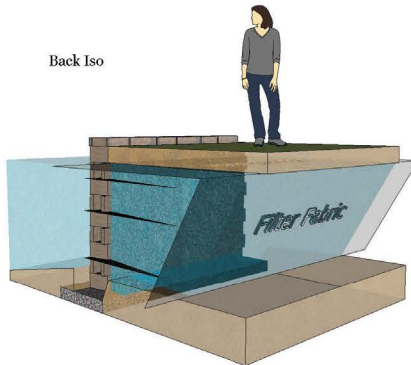
Full Pool



Side View



Back Iso



GeoStone Retaining Walls
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 Westover, AL 35185
 Tel: 205-678-9969
 Toll Free: 877-GEO-9900
<http://geostone.com>



Seawall Wall Profile
 Product Used:
 GeoStone Standard Block
 -8'x8'x12" - 72 lbs
 -AutumnBlend Color shown

DRAWN BY
 DJA

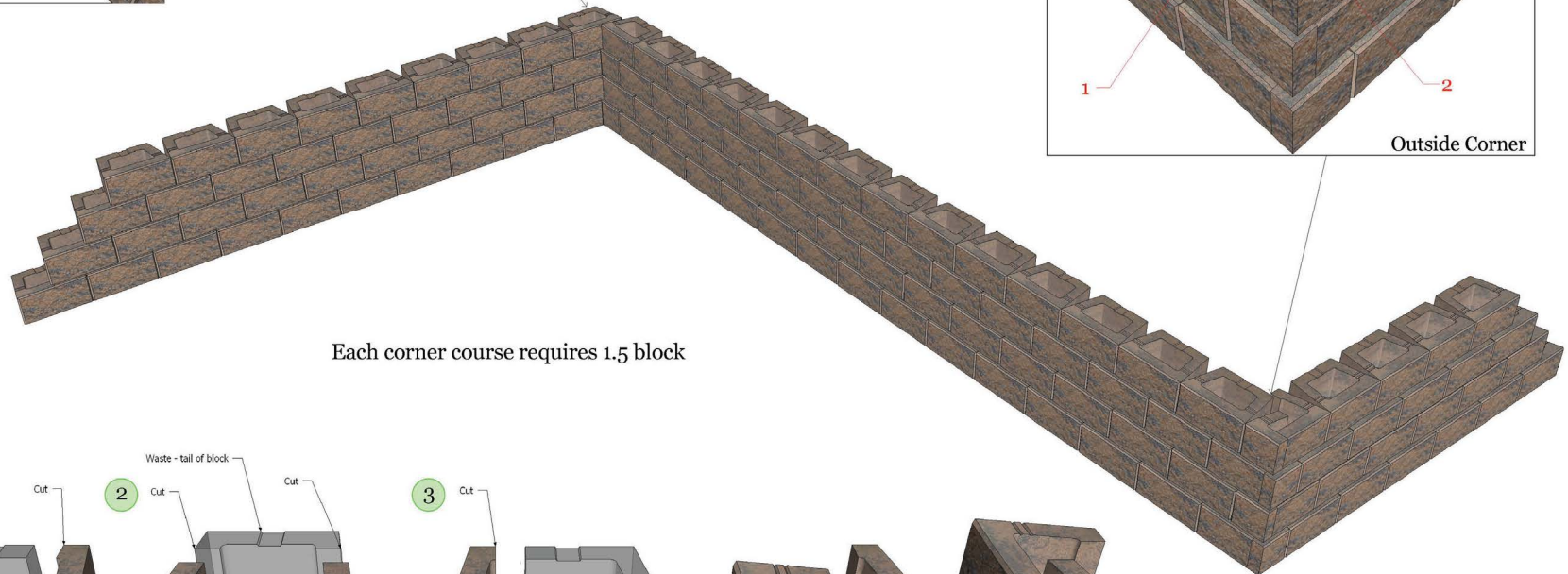
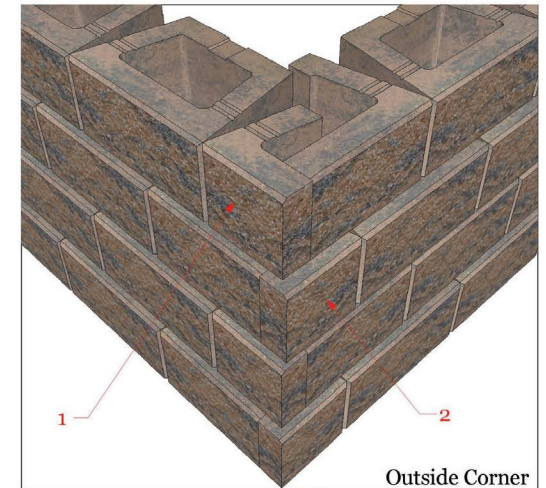
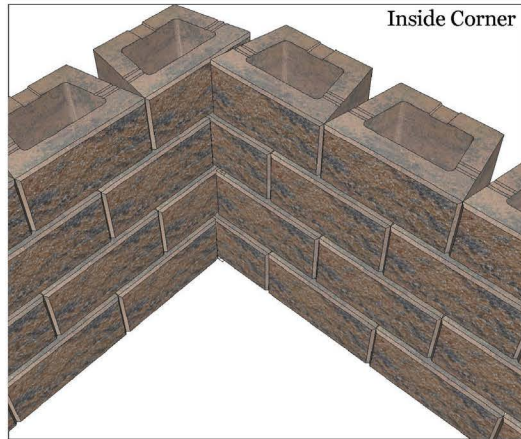
ISSUE
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RE-ISSUE
 00.00.00 (0)

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GeoStone 8"x18"x12" Corner Detail

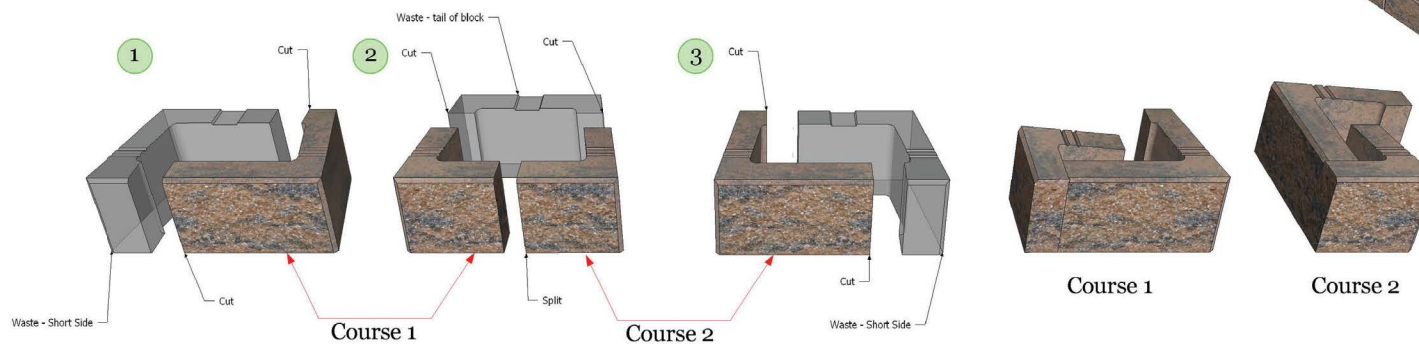
-Procedure for using smaller "paver" splitter & Concrete Saw



Each corner course requires 1.5 block



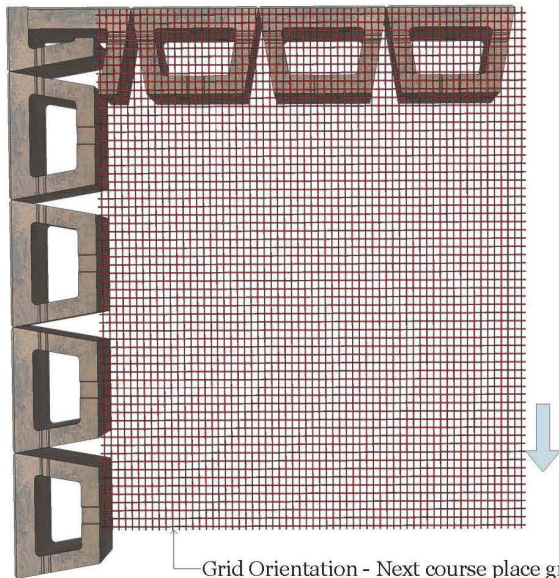
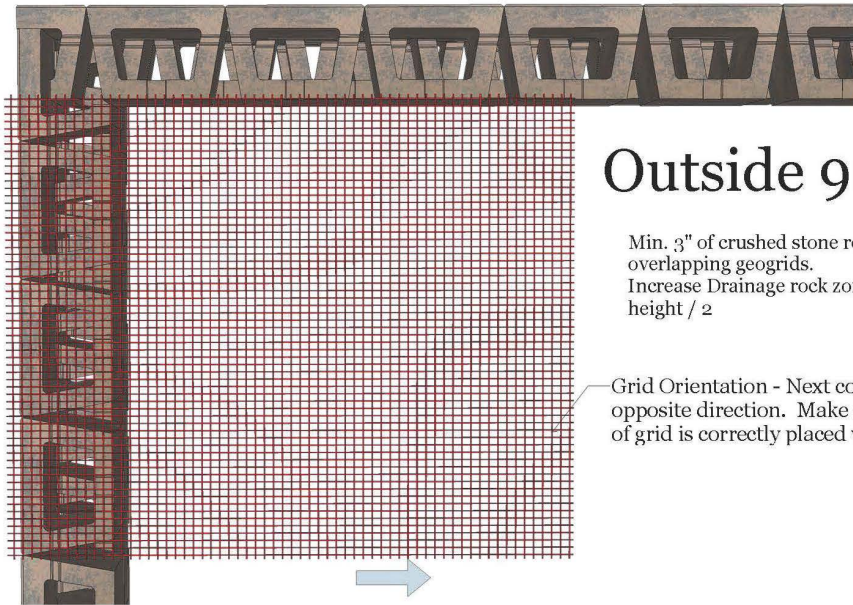
Scan for YouTube video on how to make "Half-Whole" Corner



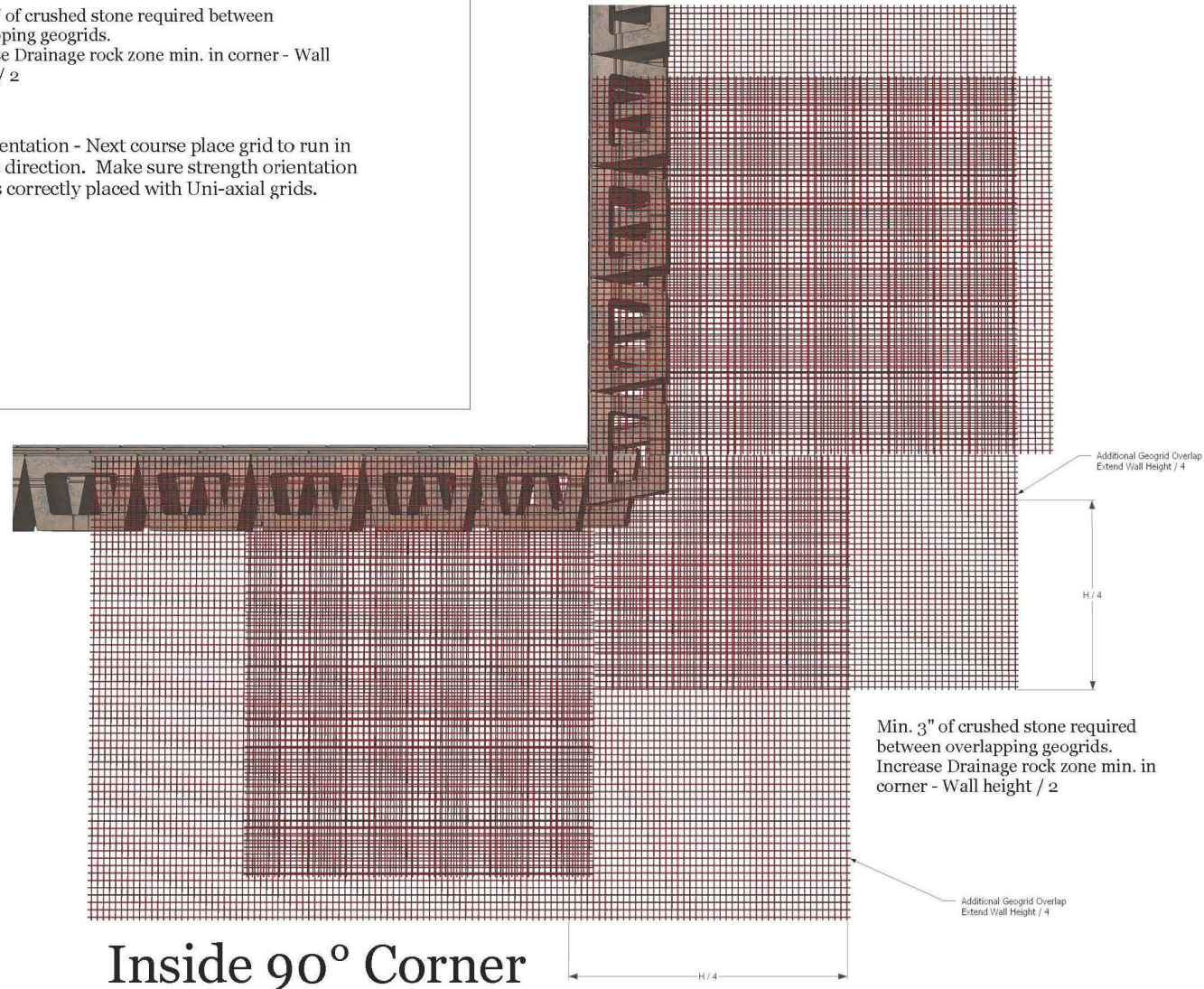
Outside 90° Corner

Min. 3" of crushed stone required between overlapping geogrids.
Increase Drainage rock zone min. in corner - Wall height / 2

Grid Orientation - Next course place grid to run in opposite direction. Make sure strength orientation of grid is correctly placed with Uni-axial grids.



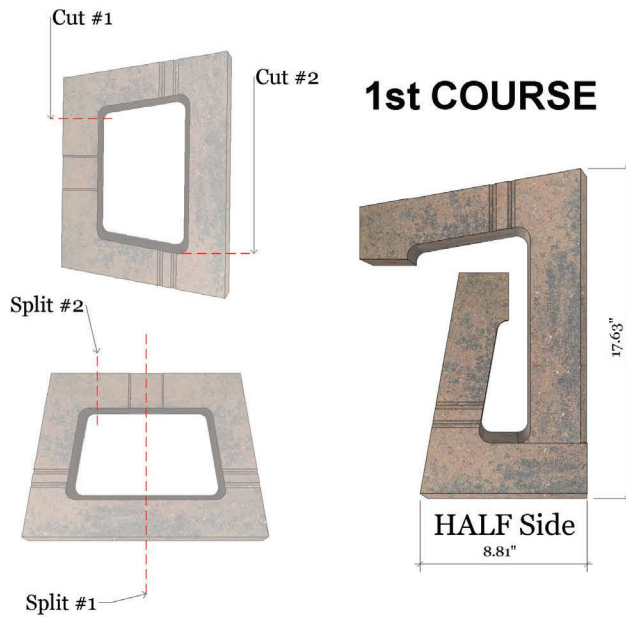
Grid Orientation - Next course place grid to run in opposite direction. Make sure strength orientation of grid is correctly placed with Uni-axial grids.



Inside 90° Corner

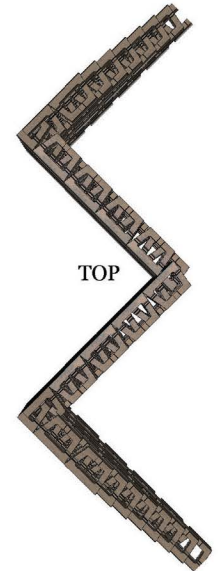
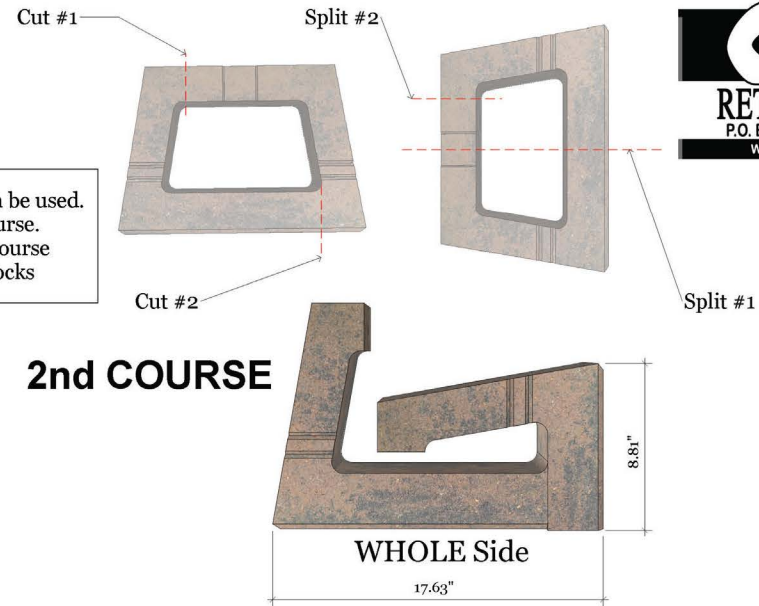
Corners

1st COURSE



Both sides of split block can be used.
 Left split side - 1st course.
 Right split side - 2nd course
 Each Corner = 1.5 blocks

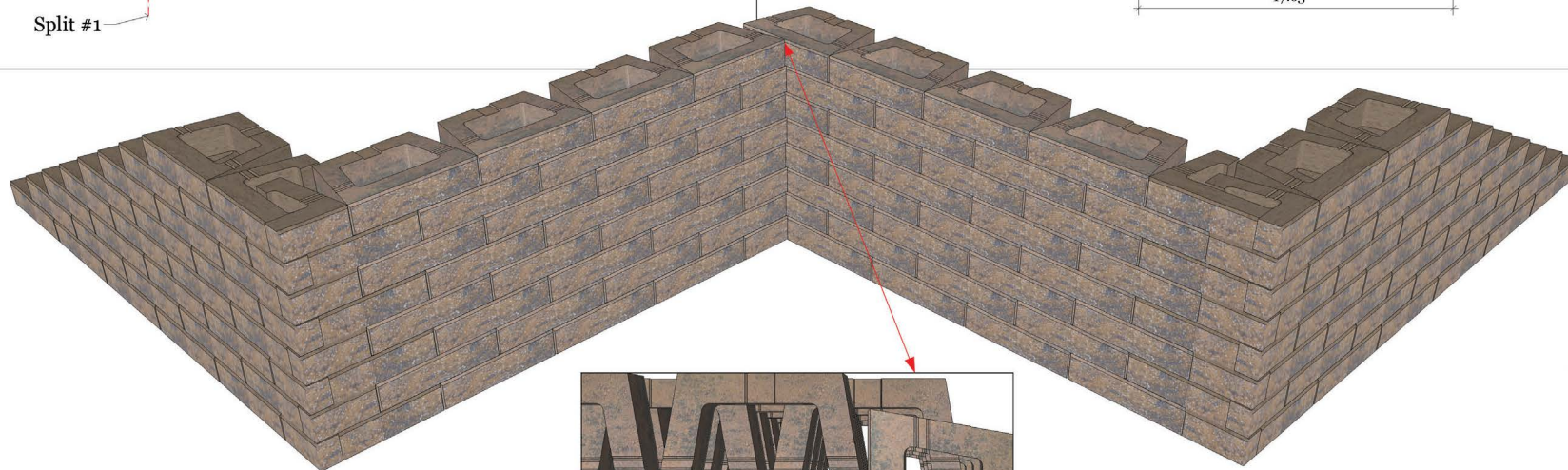
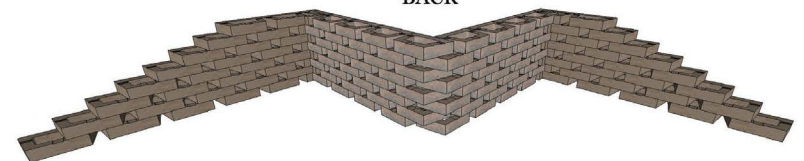
2nd COURSE



SIDE



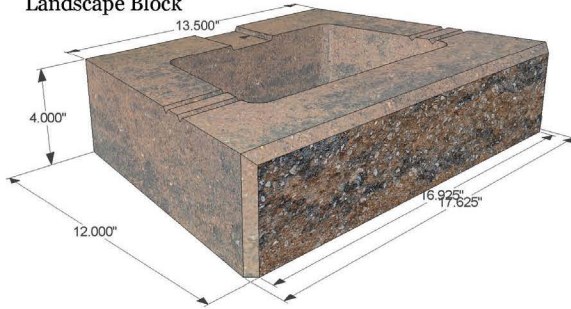
BACK



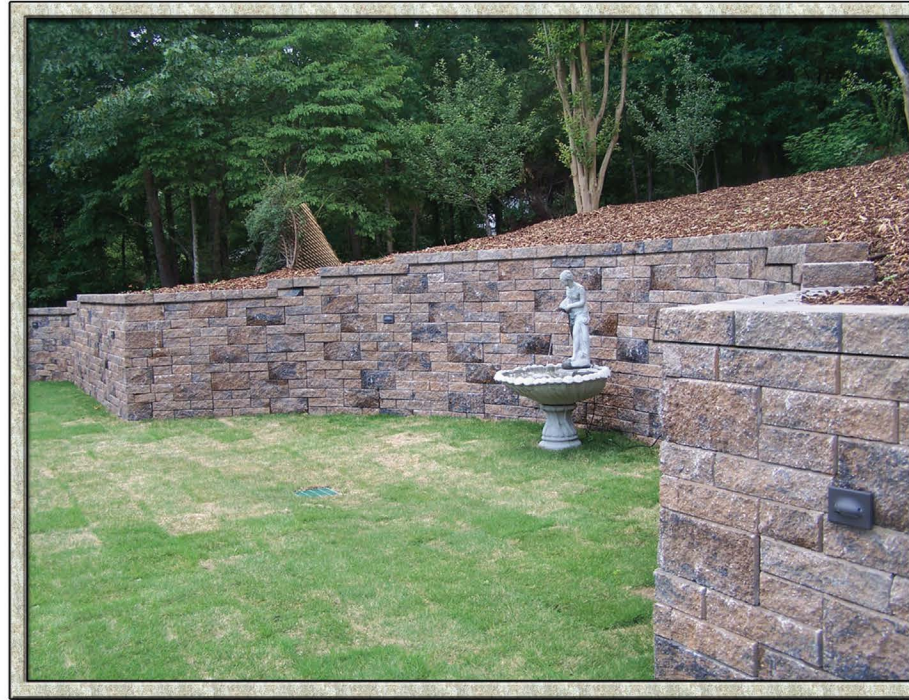
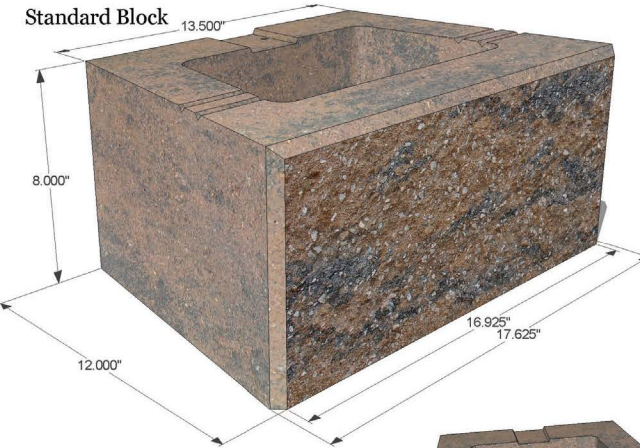
Inside Corner
 -overlap block
 -cuts may be necessary
 depending on batter.
 -vertical wall shown

Ashlar Pattern

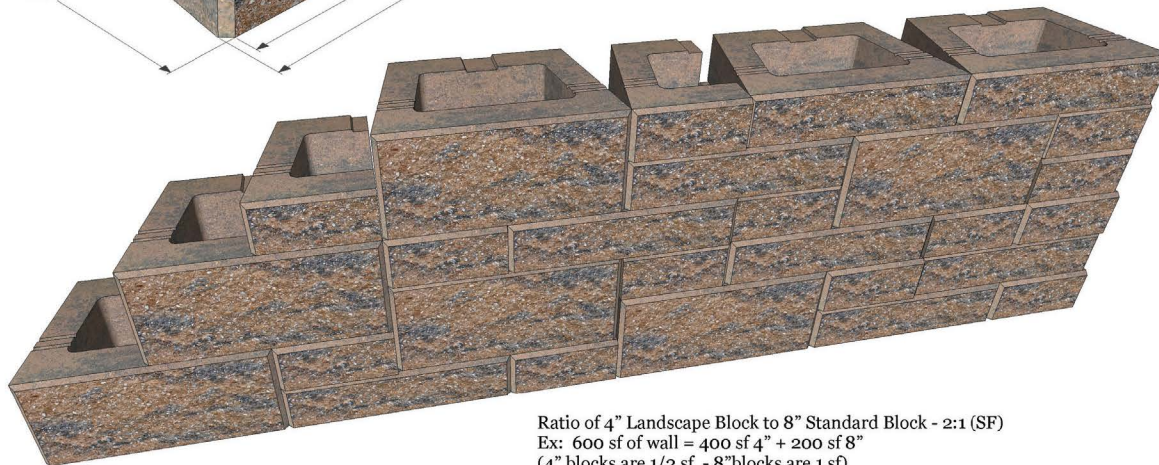
Landscape Block



Standard Block



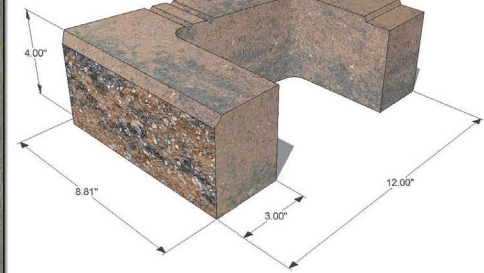
The GeoStone Retaining Wall System's open core design allows for maximum flexibility in all sorts of applications. The latest testament to this is a multiple piece pattern procedure. By cutting the 4" block in half, a random configuration can be created that utilizes both the 8" & 4" blocks. This configuration will break the horizontal lines in the wall. This is a very simple technique that can add so much to the look of your project.



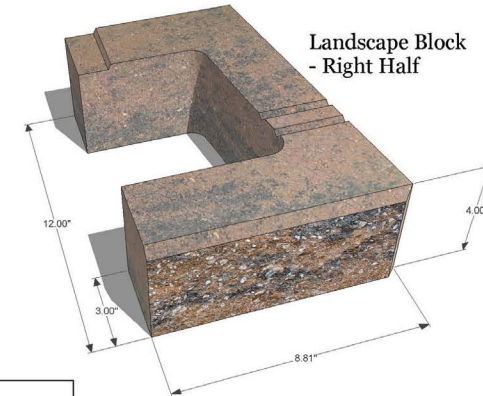
Ratio of 4" Landscape Block to 8" Standard Block - 2:1 (SF)
 Ex: 600 sf of wall = 400 sf 4" + 200 sf 8"
 (4" blocks are 1/2 sf - 8" blocks are 1 sf)



Landscape Block
- Left Half

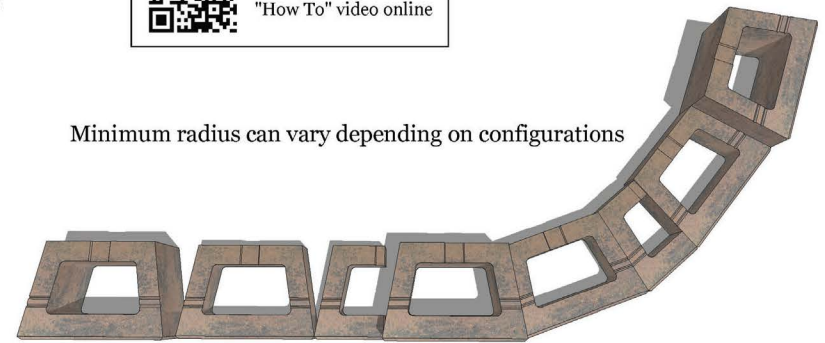


Landscape Block
- Right Half



Want to know more?
 Scan me to go to the
 "How To" video online

Minimum radius can vary depending on configurations



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Stairs



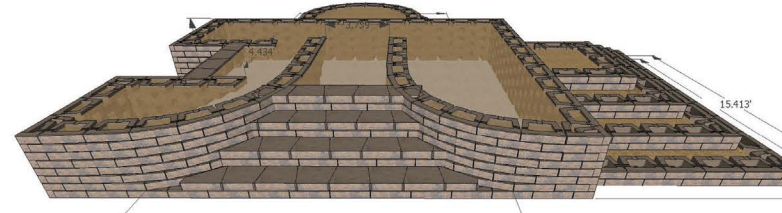
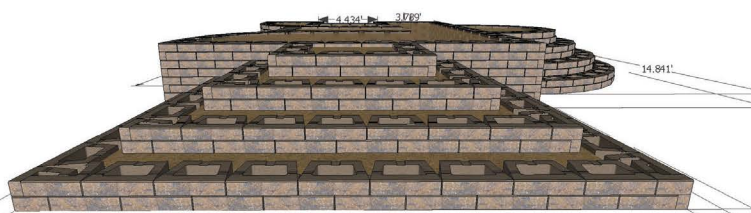
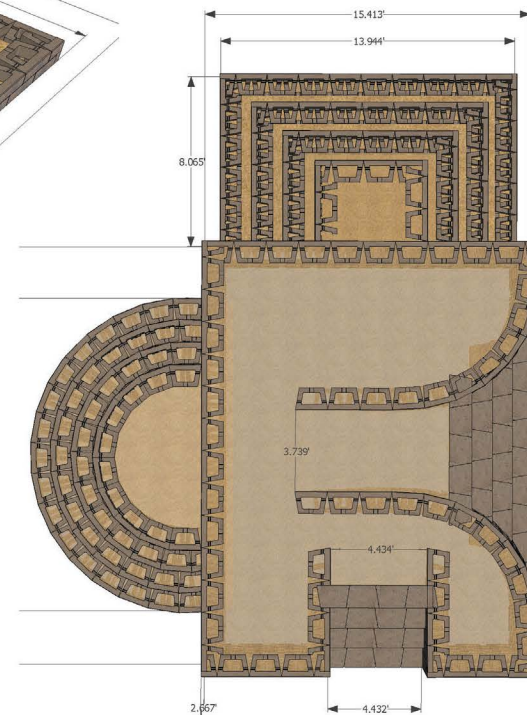
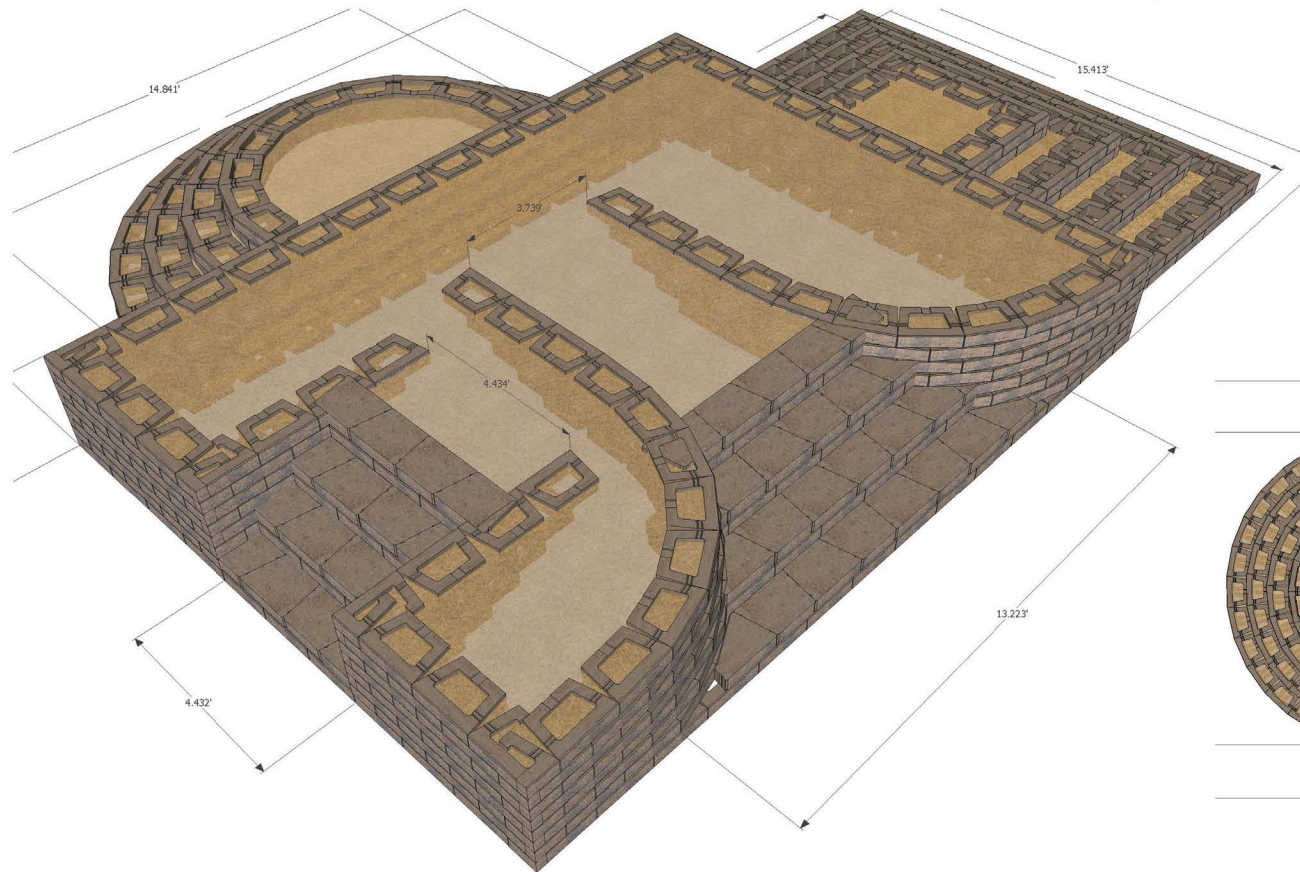
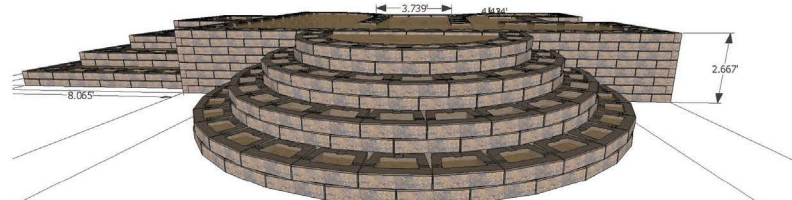
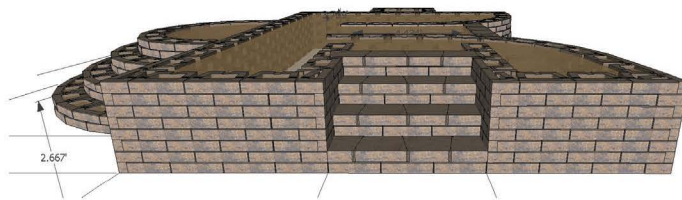
Various Stair Applications
Product Used:
GeoStone Landscape Block
-4'x8'x12" - 36 lbs
-AutumnBlend Color shown

DRAWN BY
DJA

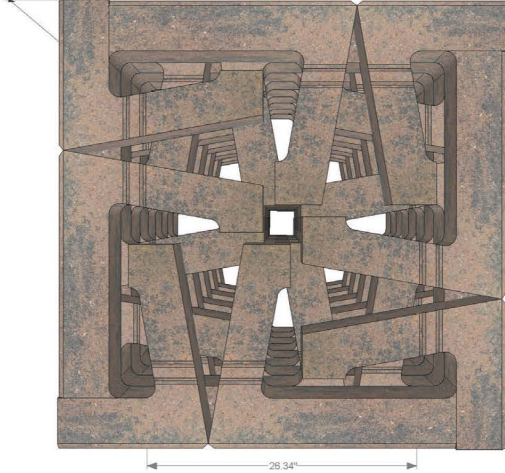
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Top View

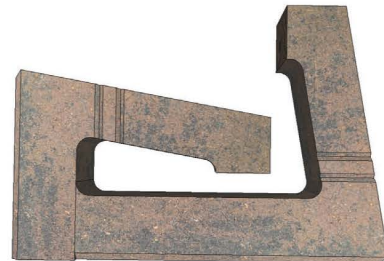
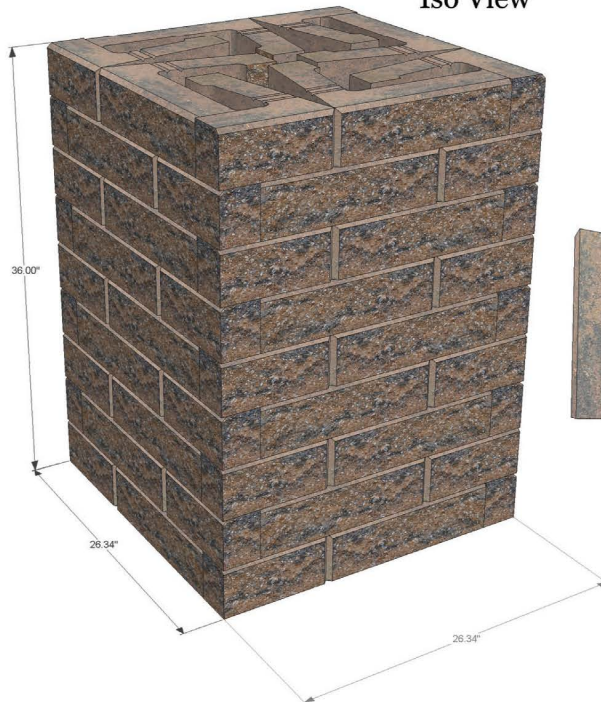


GeoStone Column

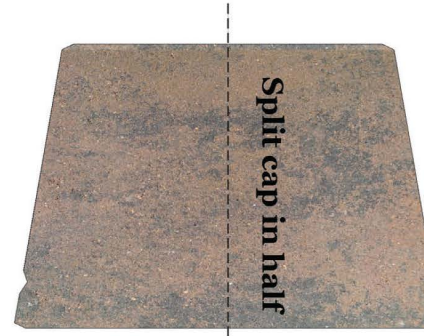
- Half / Whole Outside Corner 4x
- 6 GeoStone blocks per course



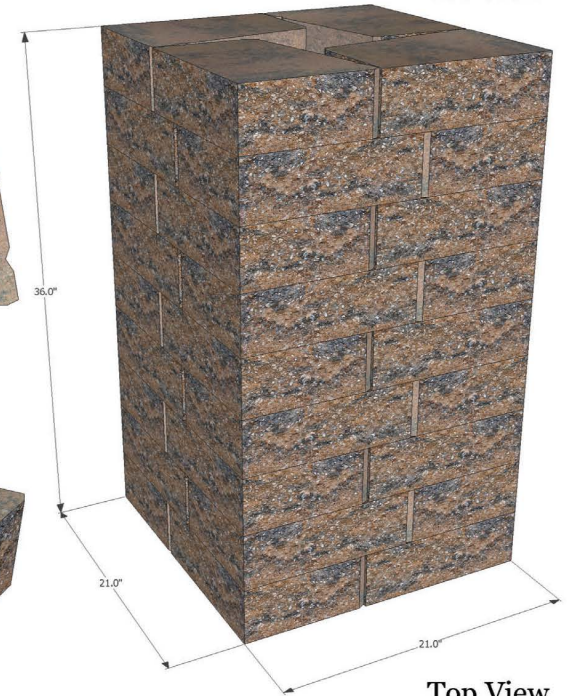
Iso View



Split cap in half



Iso View



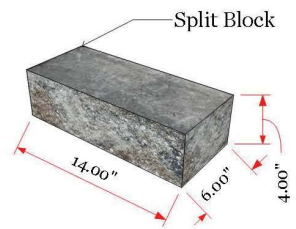
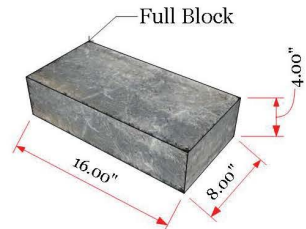
Top View



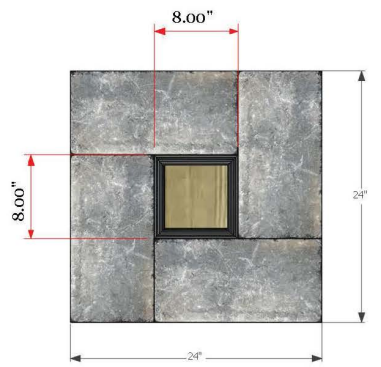
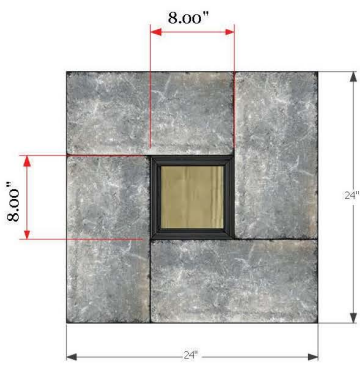
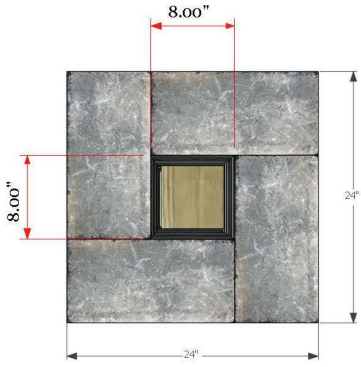
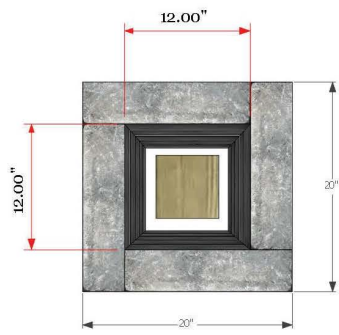
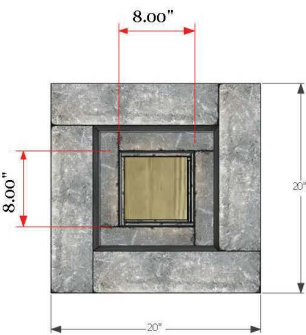
Cap Column

- Split Universal Cap in Half
- 2 Cap blocks per course
- Usually most cost effective method
- Only works with caps split on front and back.

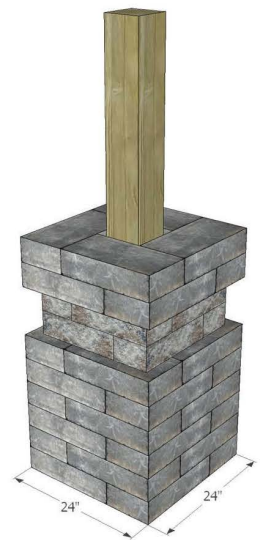
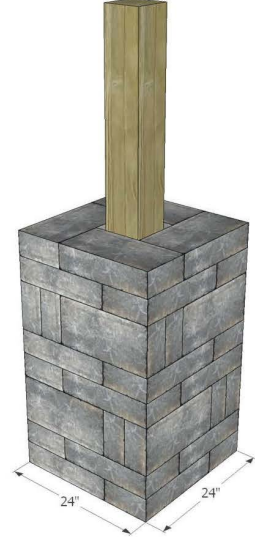
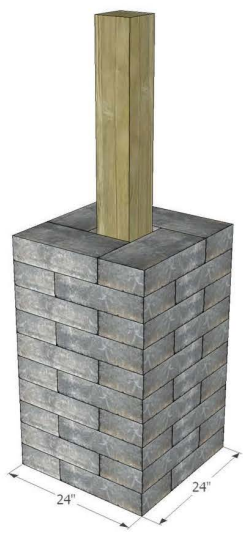
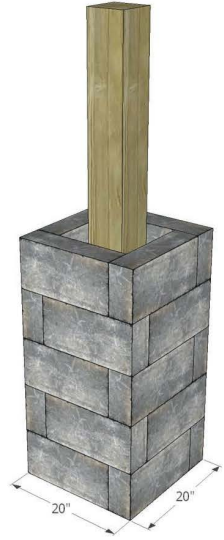
Rumble Wall Columns



Bottom View



Isometric View



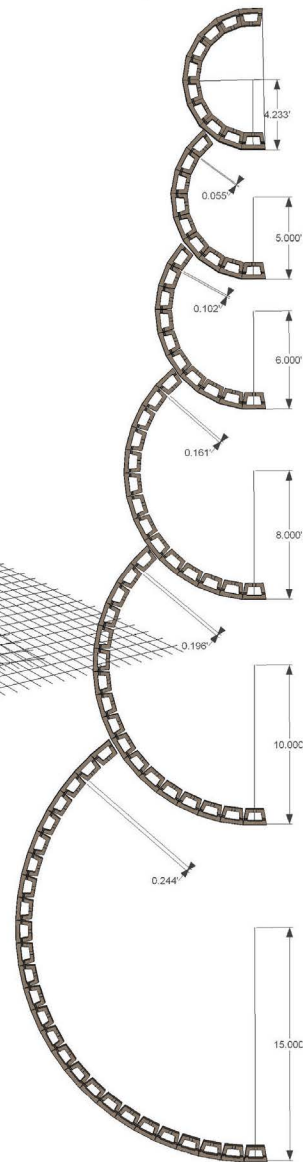
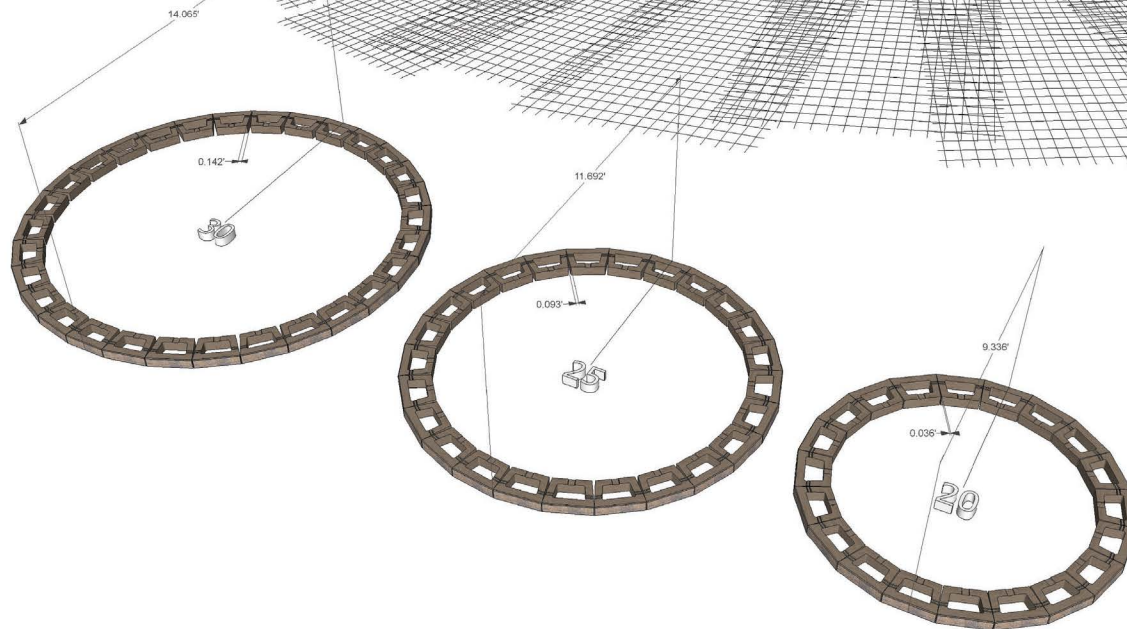
Radius



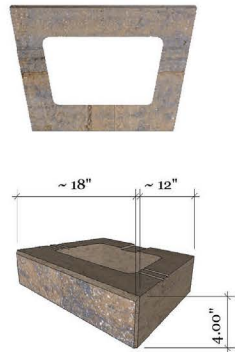
Concave

Convex

Optionally skip courses of geogrid to ensure 100% coverage. Do not overlap grids - minimum 3 inches rock between layers.



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Various Radius Applications
 Product Used:
 GeoStone Landscape Block
 -4"x18"x12" - 36 lbs
 -AutumnBlend Color shown

DRAWN BY
 DJA

ISSUE
 07/06/2015

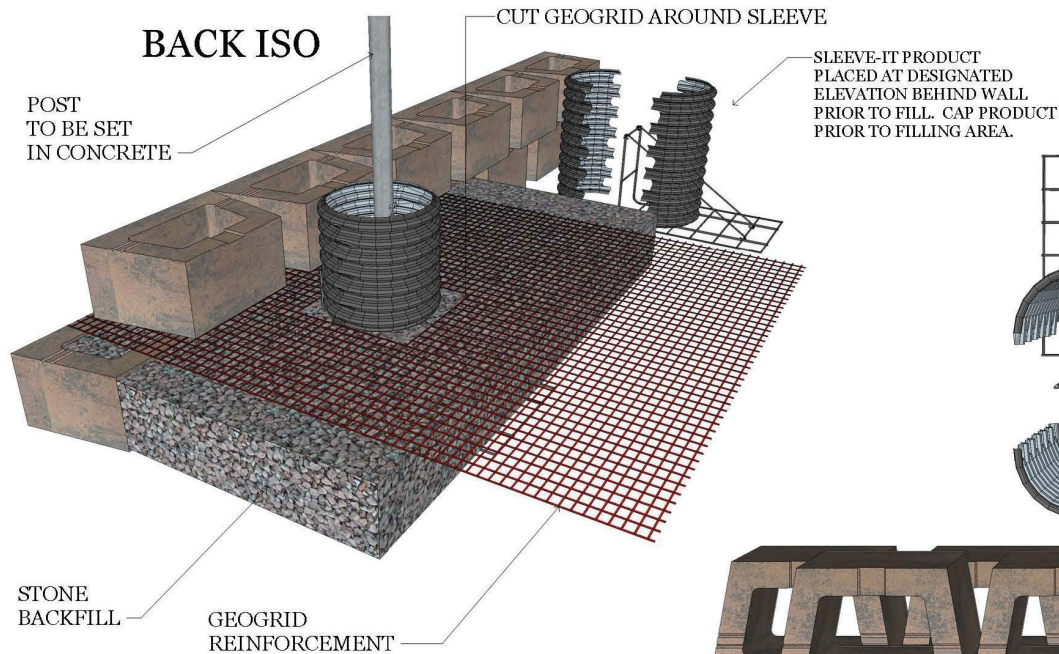
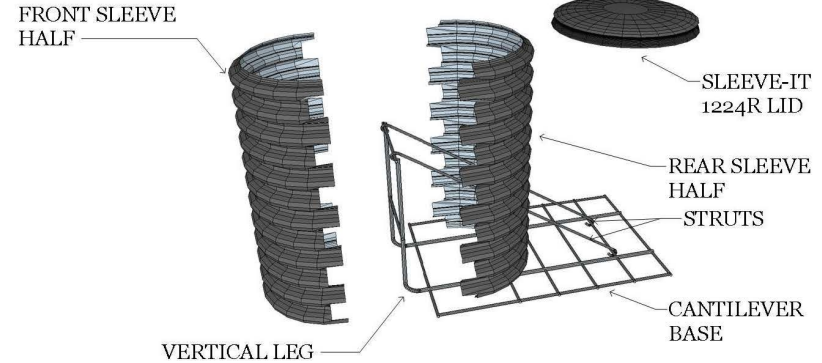
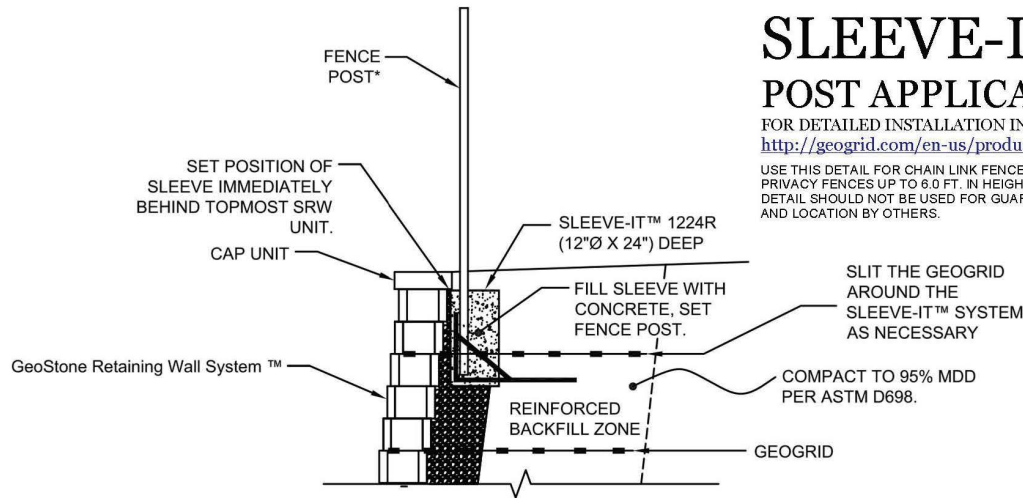
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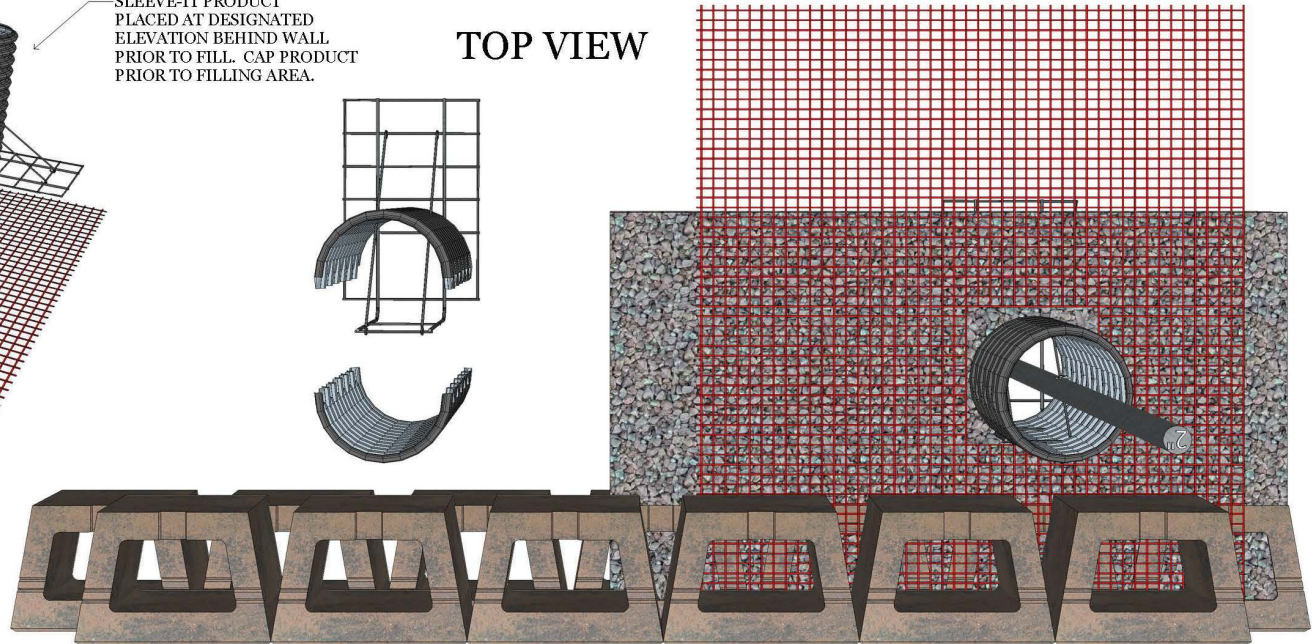
SLEEVE-IT[™] POST APPLICATION

FOR DETAILED INSTALLATION INSTRUCTIONS PLEASE VISIT:
<http://geogrid.com/en-us/products/sleeve-it-system/>

USE THIS DETAIL FOR CHAIN LINK FENCES UP TO 8.0 FT. IN HEIGHT,
 PRIVACY FENCES UP TO 6.0 FT. IN HEIGHT WITH MAX. 4"x4" POSTS. THIS
 DETAIL SHOULD NOT BE USED FOR GUARD RAIL POSTS FENCE DESIGN
 AND LOCATION BY OTHERS.



TOP VIEW



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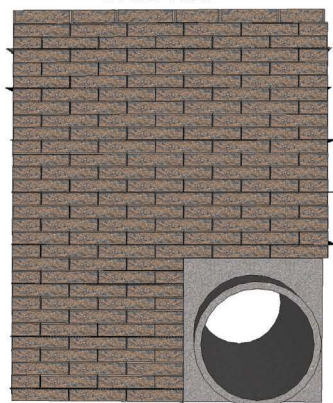


Right Iso

PARAPET / CULVERT APPLICATION

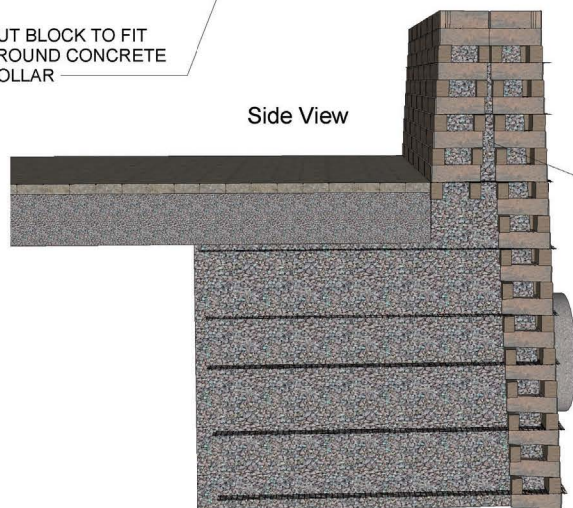
Left Iso

Front View

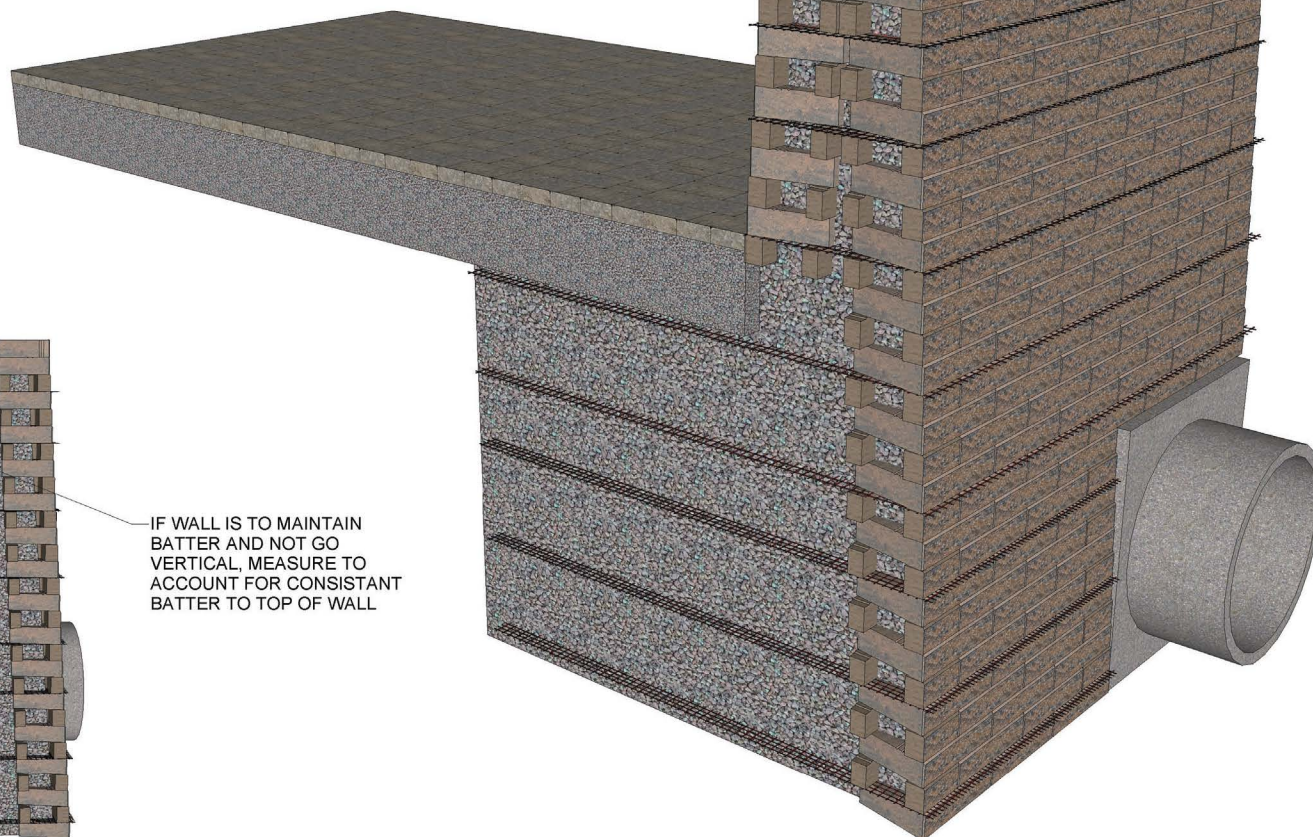
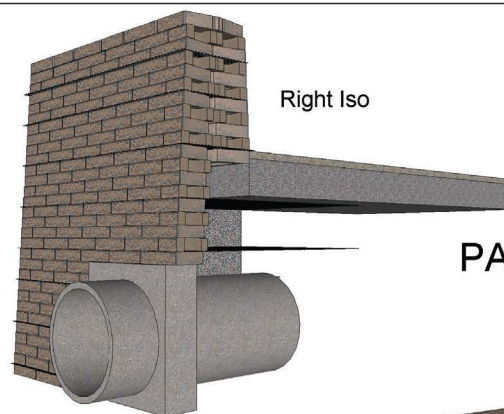


CUT BLOCK TO FIT
AROUND CONCRETE
COLLAR

Side View



IF WALL IS TO MAINTAIN
BATTER AND NOT GO
VERTICAL, MEASURE TO
ACCOUNT FOR CONSISTANT
BATTER TO TOP OF WALL



RAFT FOOTING



Raft footing depth and width will vary based on soil conditions.

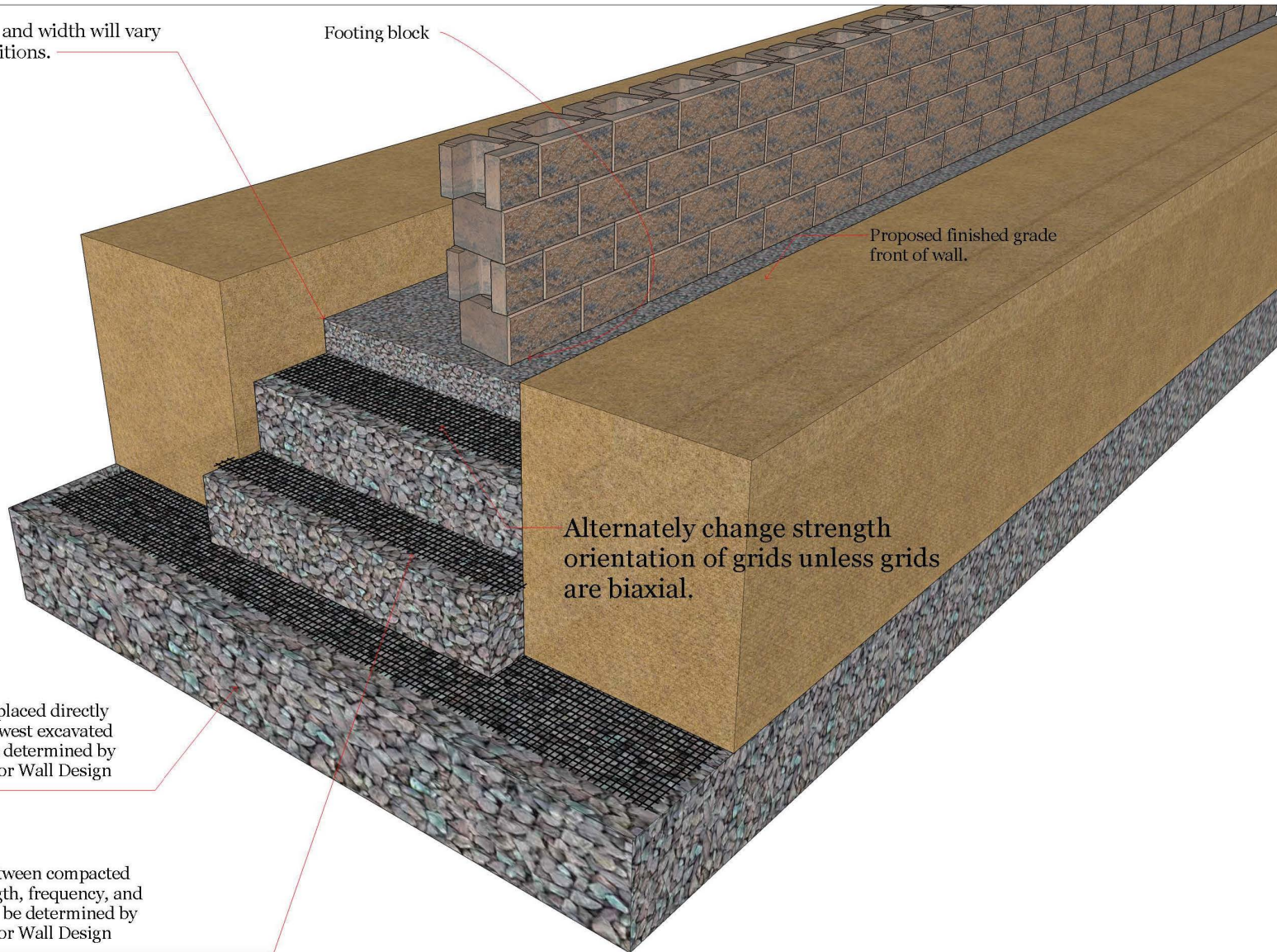
Footing block

Proposed finished grade front of wall.

Alternately change strength orientation of grids unless grids are biaxial.

Larger Rock to be placed directly unstable soils at lowest excavated point. Depth to be determined by Geotechnical and/or Wall Design Engineer.

Sandwich grids between compacted rock layers. Strength, frequency, and length of grids will be determined by Geotechnical and/or Wall Design Engineer.



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DRAWN BY
DJA

ISSUE
09.04.12

RE-ISSUE
00.00.00 (0)

DESCRIPTION
The walls in this drawing are for illustration purposes only and were designed according to industry standards and procedures. Certain factors such as drainage, soils, surcharge, etc. will effect the overall design of the wall. It is recommended that all drawings be verified by a professional engineer before applying to actual situations.