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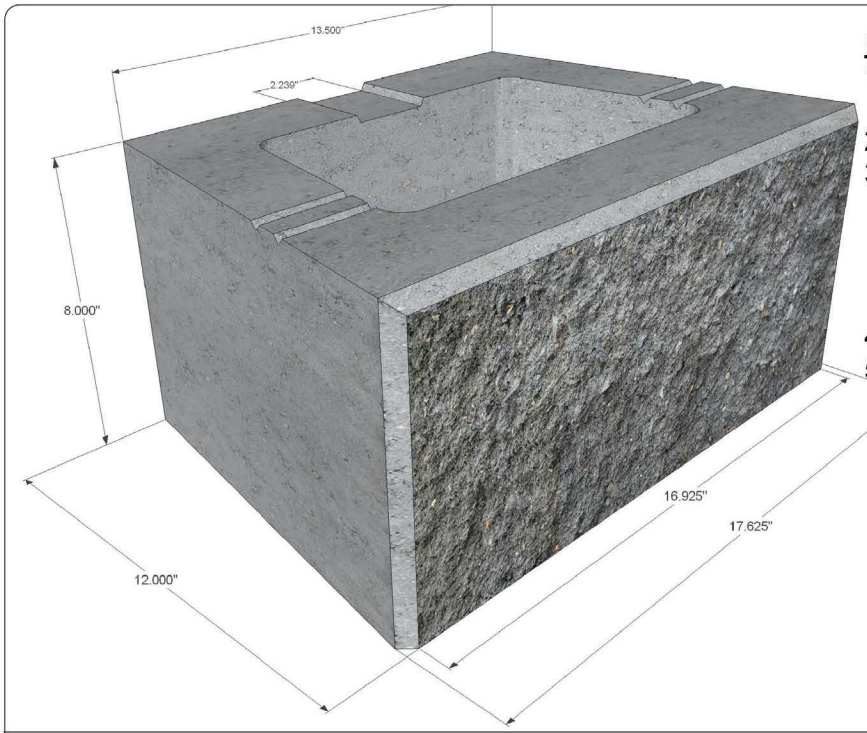
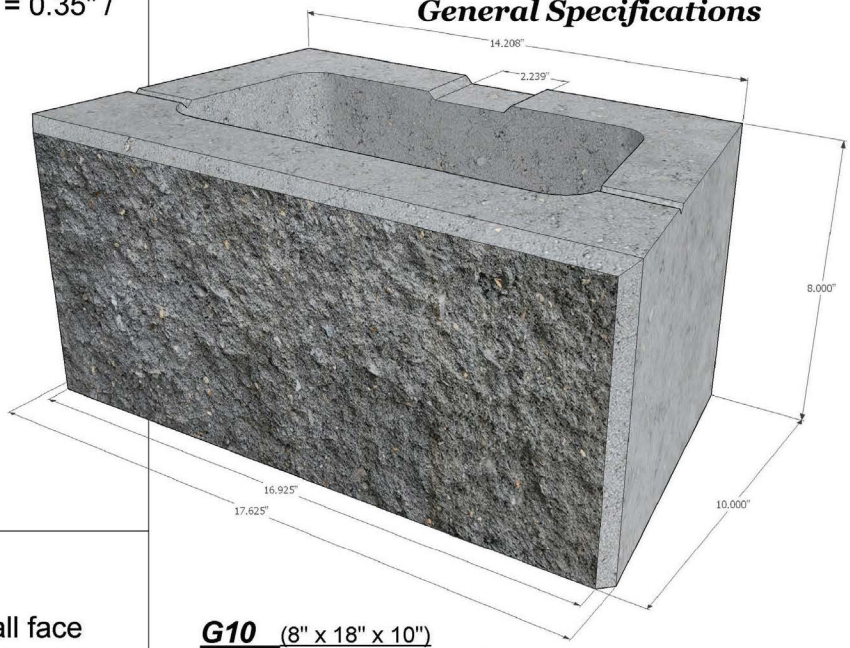
General Specifications



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

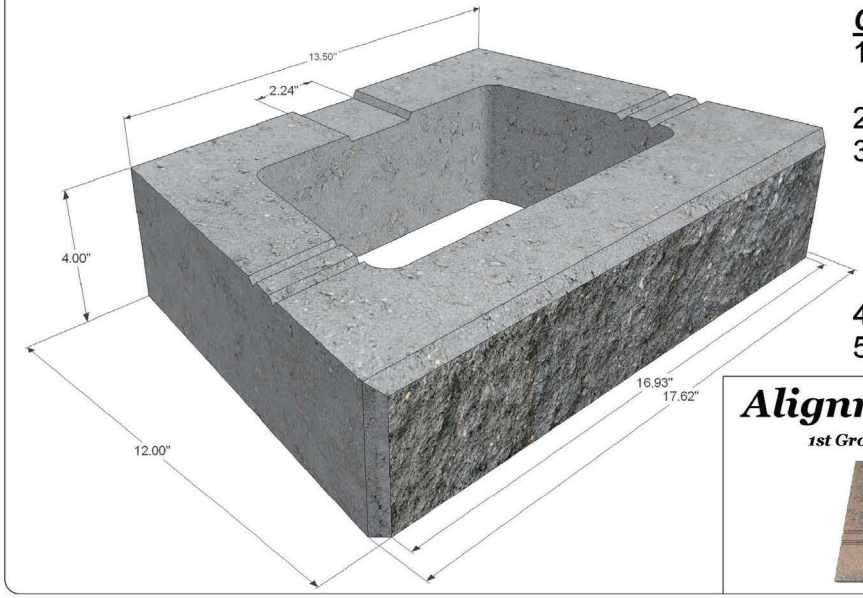
1. Each block = 1 sq ft wall face
   - wall: 100' L x 5' H (500 sq ft) = 500 blocks
2. Each core = 0.31 cubic ft of core fill
3. Setback (batter)
   -Bevel top of split face = 0.35" / course or 2.5°
   - First Groove = 1"
   - Second Groove = 2"
4. Radius = 4.5'
5. Weight = 72 lbs

SCAN ME
DOWNLOAD FULL DOCUMENT - PDF



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

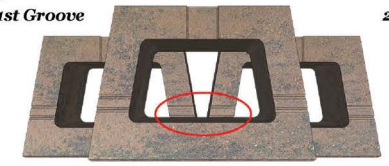


G12-4 (4" x 18" x 12")

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

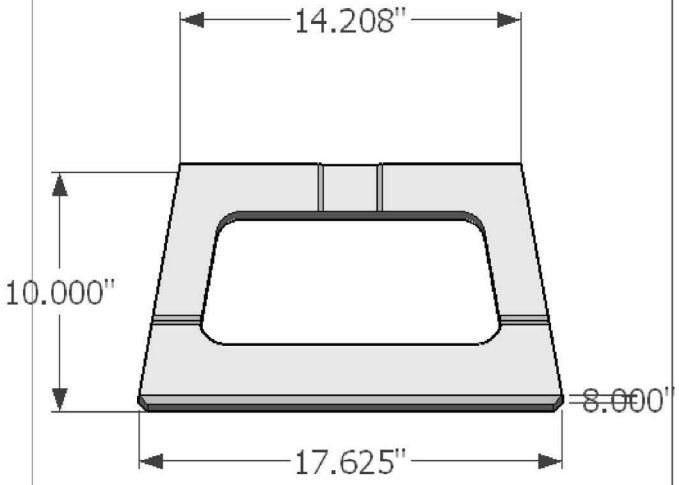
Alignment

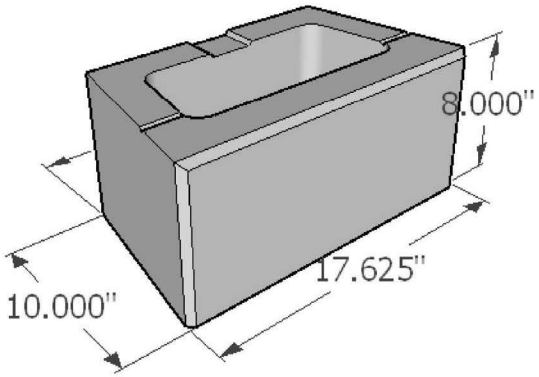
1st Groove



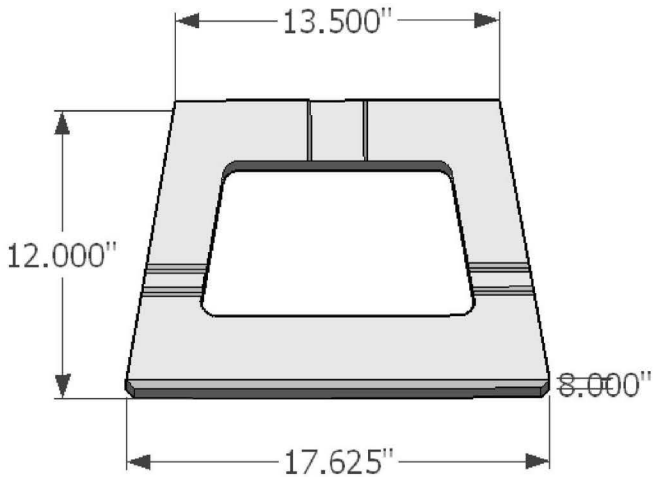
2nd Groove

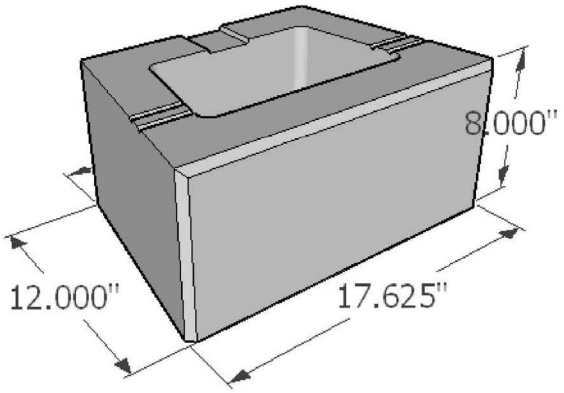
Bevel Top



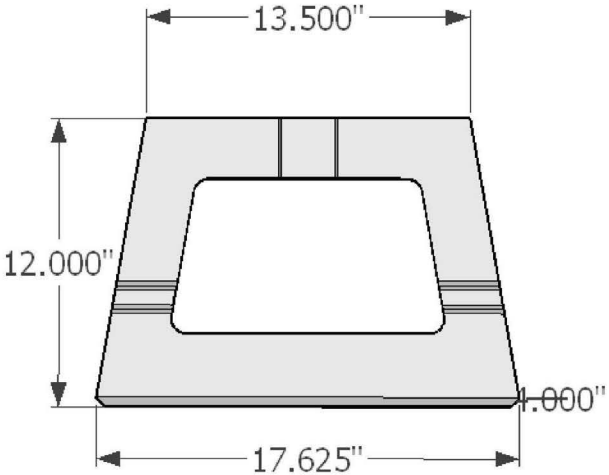


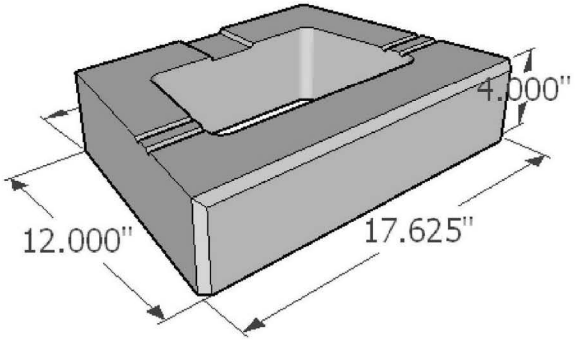
G10 - 8"h x 17.625"w x 10"d





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.

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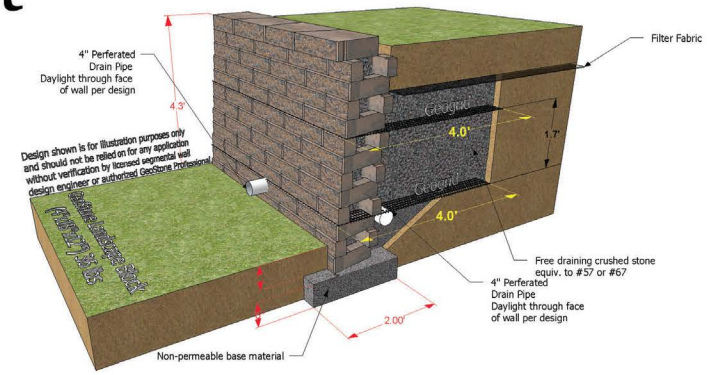
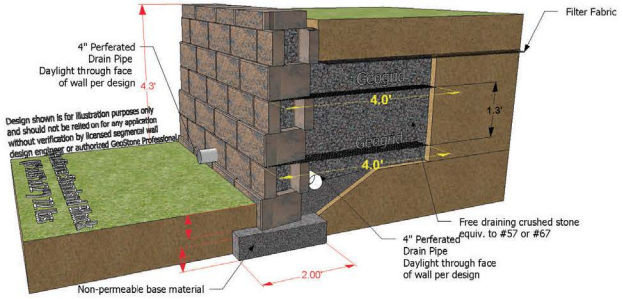
4 ft

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.





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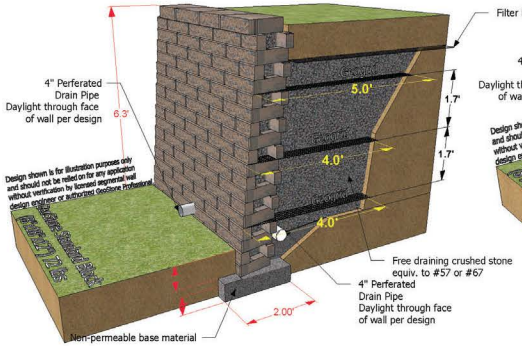
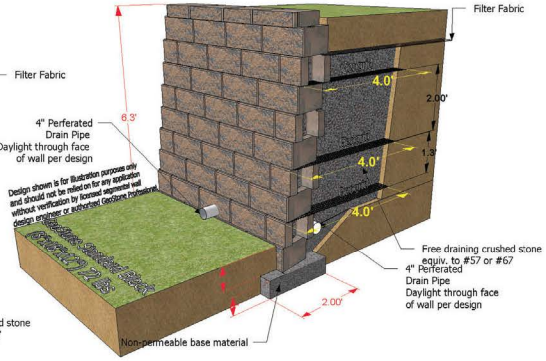
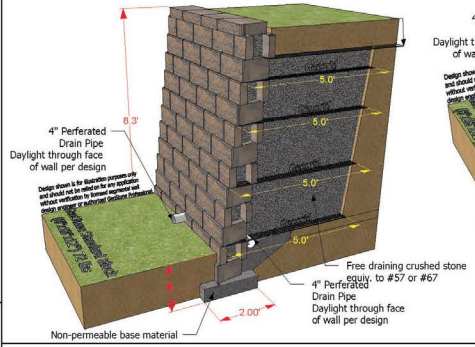
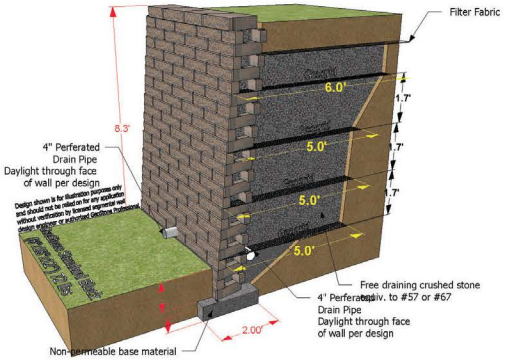
6 ft



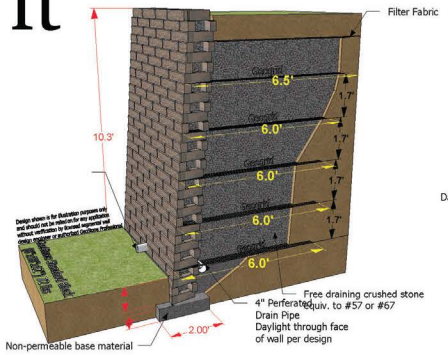


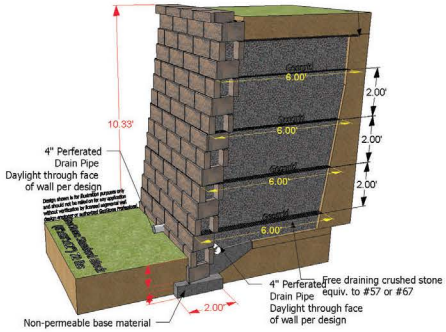
8 ft



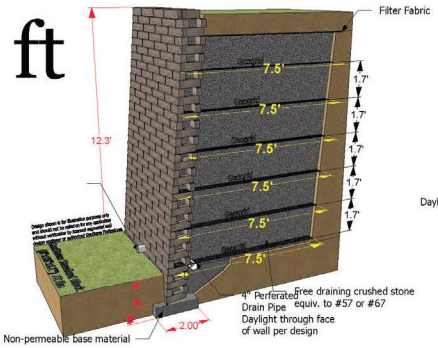


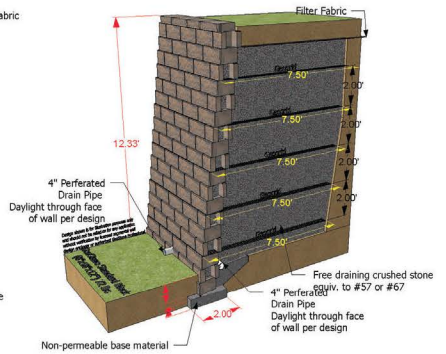
10 ft





12 ft



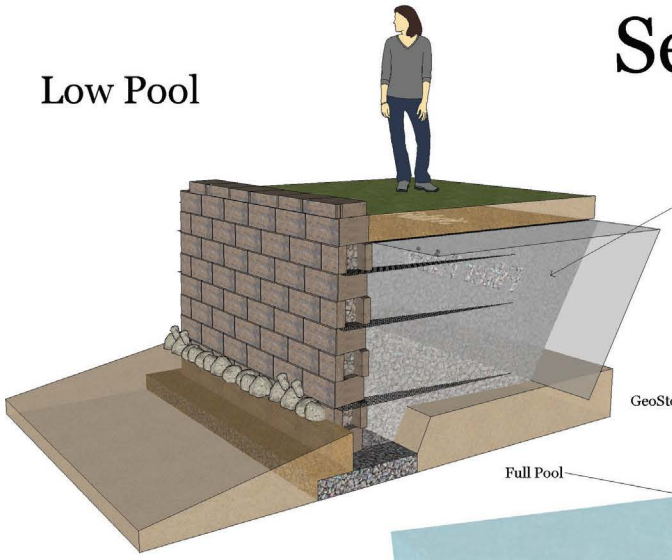


DESCRIPTION

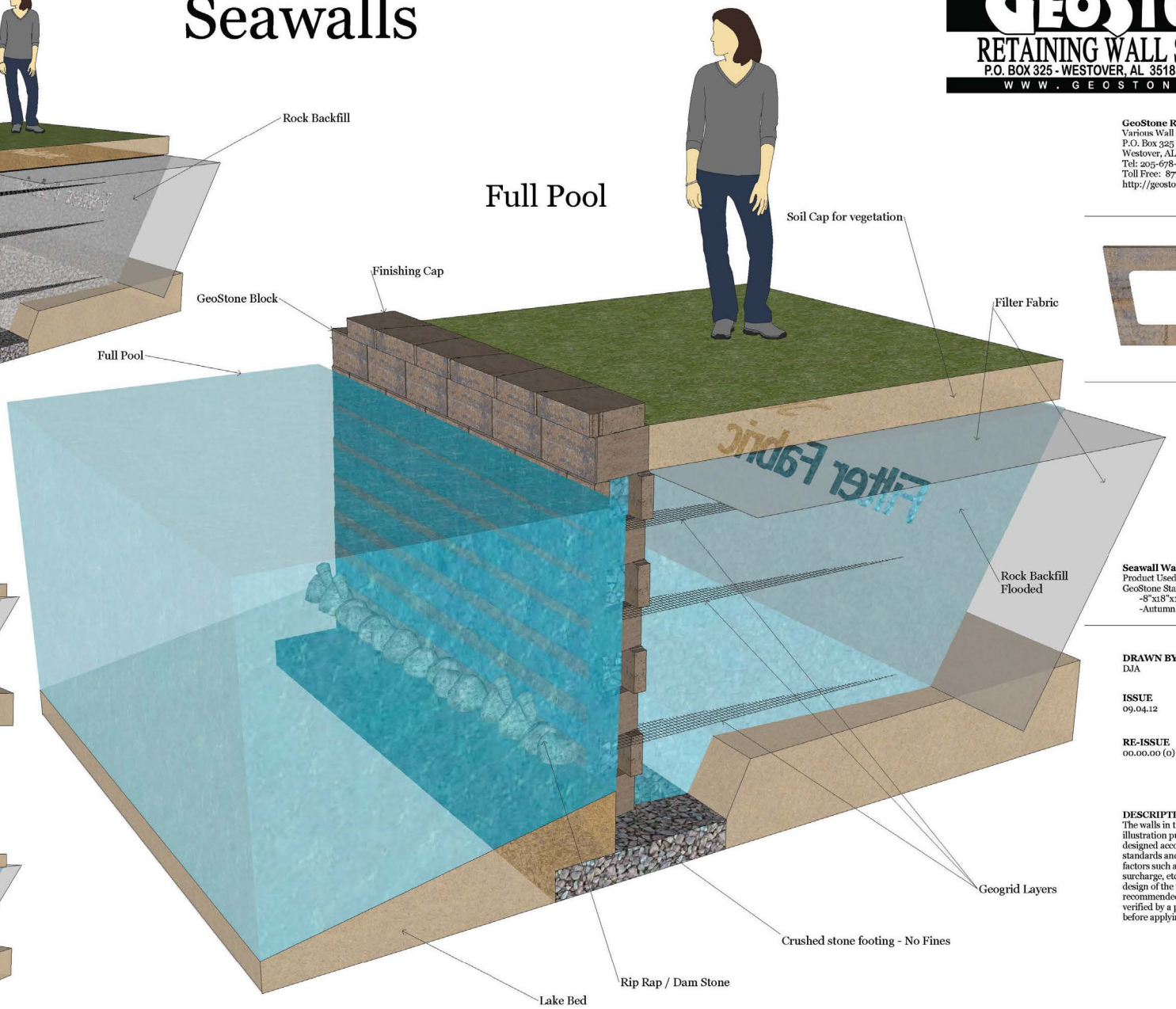
The walls in this drawing are for illustration purposes only and were designed according to industry standards and procedures. Certain factors such as drainage, soils, surcharge, etc. will effect the overall design of the wall. It is recommended that all drawings be verified by a professional engineer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

Seawalls

Low Pool



Full Pool



Side View

Back Iso

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Toll Free: 877-GEO-9900
http://geostone.com

Seawall Wall Profile
Product Used:
GeoStone Standard Block
-8"x18"x12" - 72 lbs
-AutumnBlend Color shown

DRAWN BY
DJA

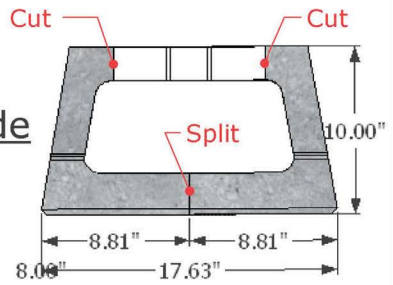
ISSUE
09.04.12

RE-ISSUE
00.00.00 (0)

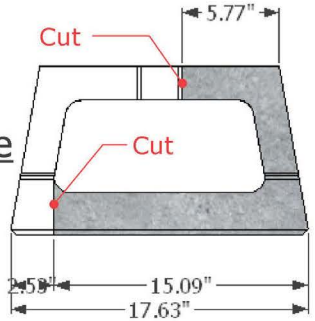
DESCRIPTION
The walls in this drawing are for illustration purposes only and were designed according to industry standards and procedures. Certain factors such as drainage, soils, surcharge, etc. will effect the overall design of the wall. It is recommended that all drawings be verified by a professional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

The GeoStone system utilizes a procedure called "**HALF-WHOLE**" for a corner instead of a corner block. This insures there will aways be enough corners for a project and the corners will ALWAYS be from the same run. These are two things that are constantly an issue with traditional corner block. This procedure also creates an interlocking corner, adding power and stability to an otherwise weak point in the wall. Each corner requires 1.5 block per course/corner. Cuts will be made with a diamond blade rescue or table saw prior to making the split on the "half side". Precise measurements and cuts are important for alignment and to minimize waste.

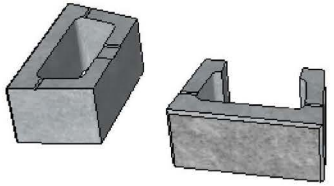
Half Side

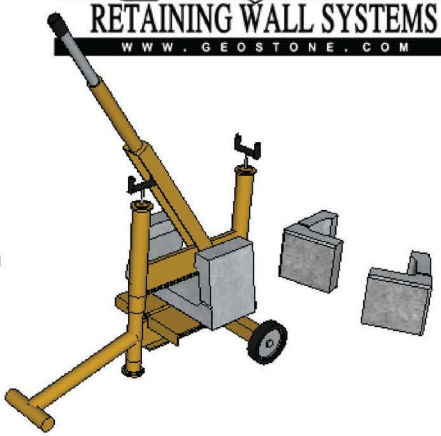


Whole Side



A paver splitter is best for getting the rough texture on the "half side" to match the face of the block. Cutting the back portion off allows the 8" block to be "fed" into the splitter sideways and on the face. There will be two "half sides". One side will be used in the first course of the corner, the 2nd will be used in the next course. This procedure requires 1.5 blocks per corner.





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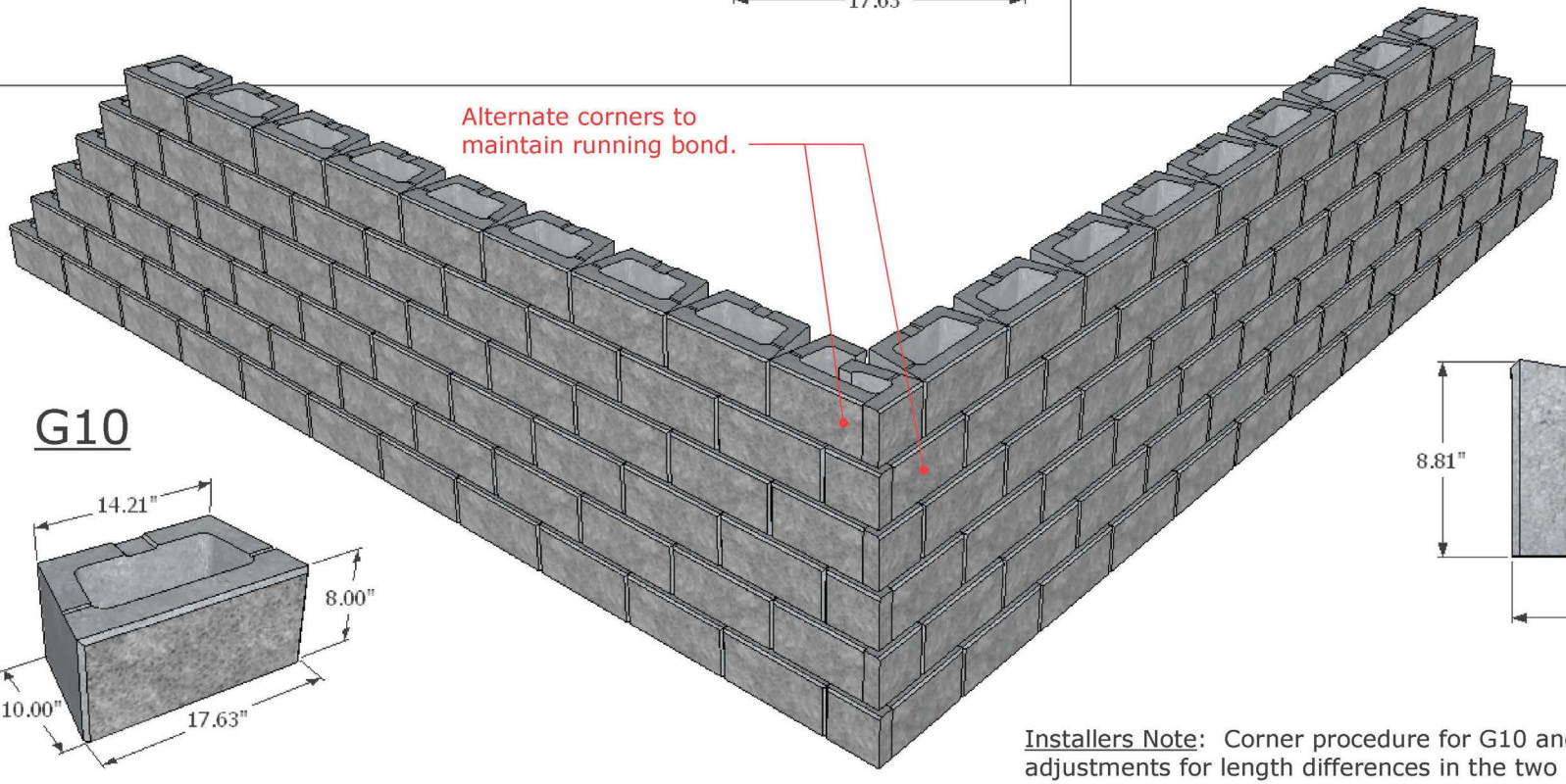
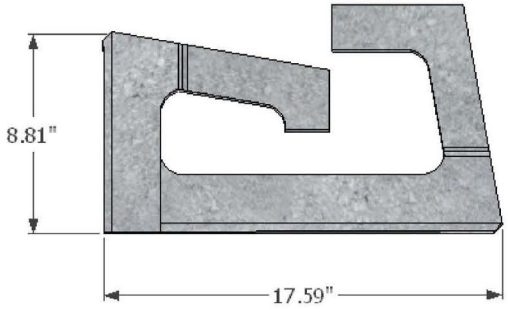
David Agee



G10

Finished Corner
Top View



Installers Note: Corner procedure for G10 and G12-8 is similar. Make adjustments for length differences in the two lines and cut/split accordingly.

GeoStone 8"x18"x12" Corner Detail

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

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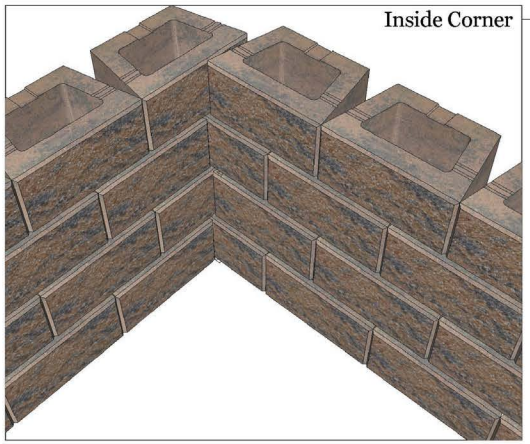
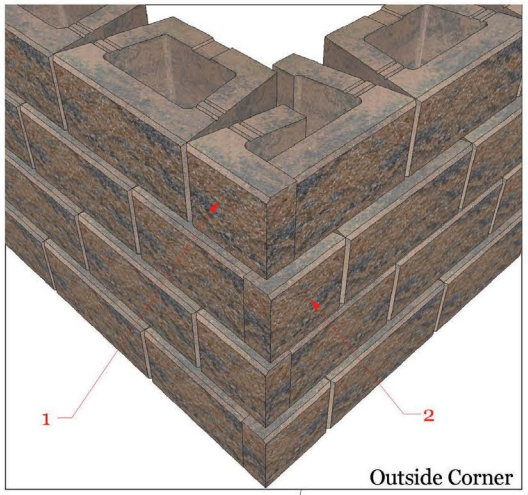
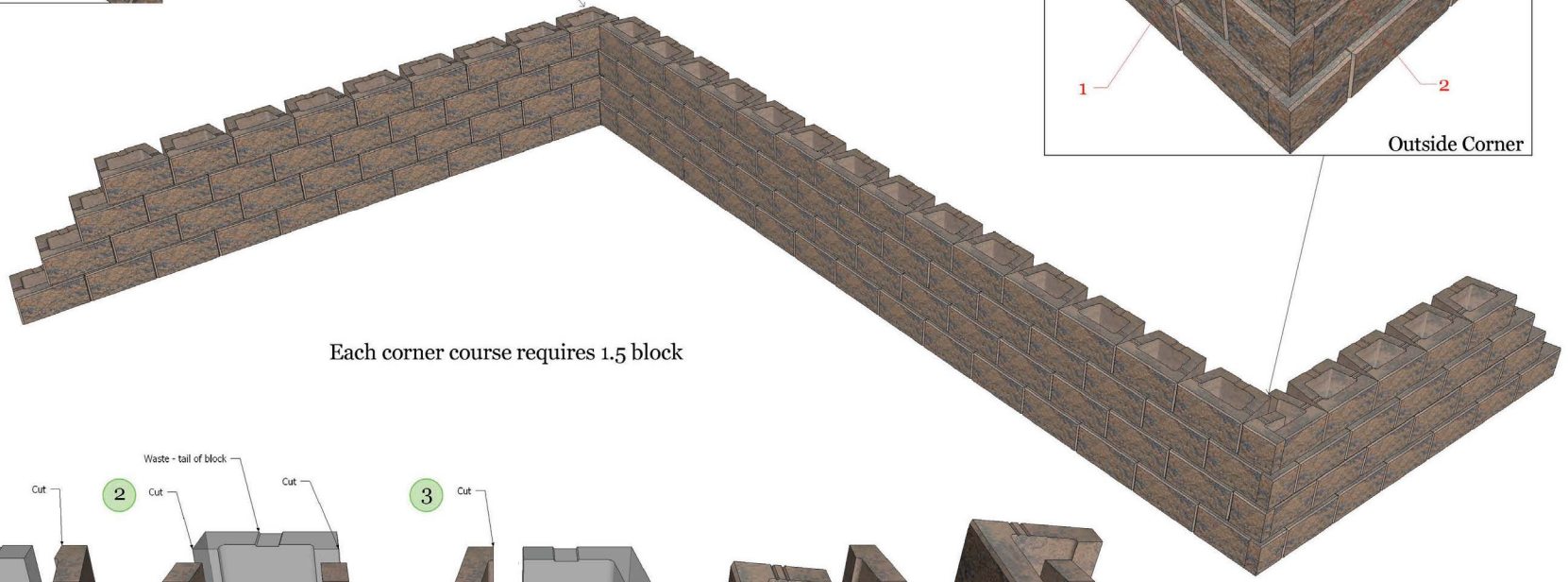


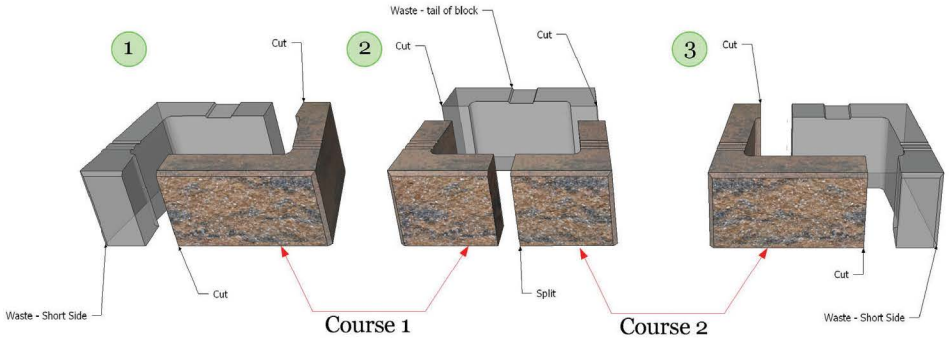


SCAN ME

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



Each corner course requires 1.5 block



Course 1

Course 2

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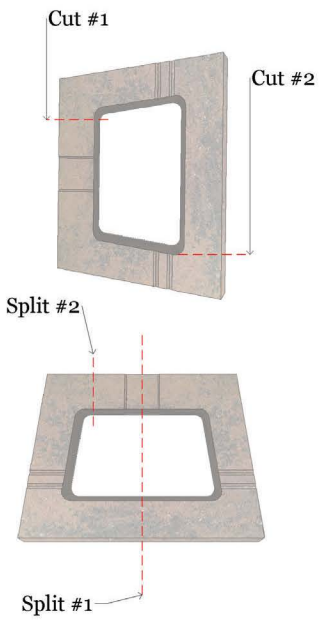
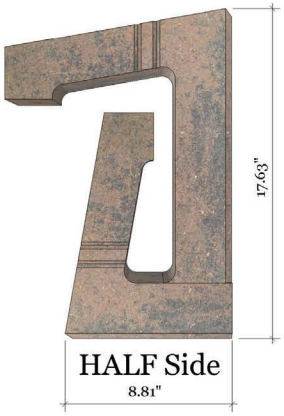
Corners

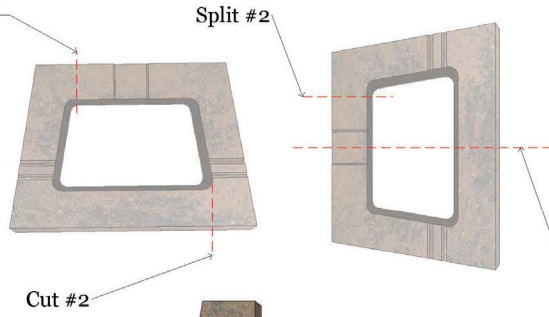
1st COURSE

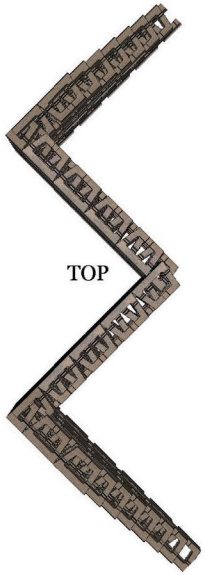


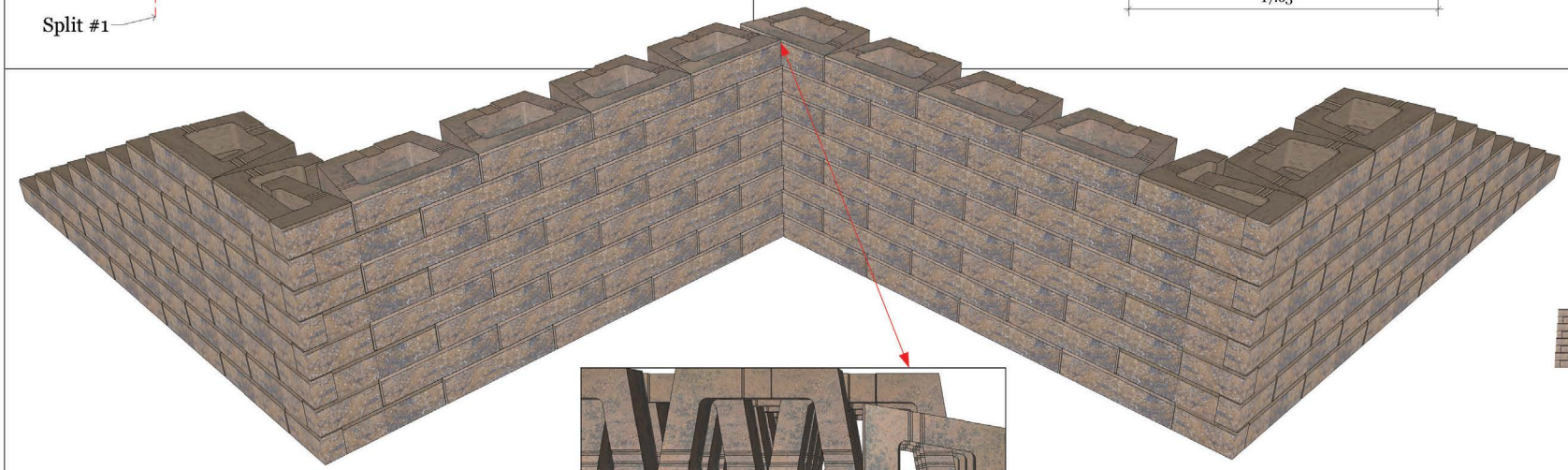


Both sides of split block can be used.
Left split side - 1st course.
Right split side - 2nd course
Each Corner = 1.5 blocks

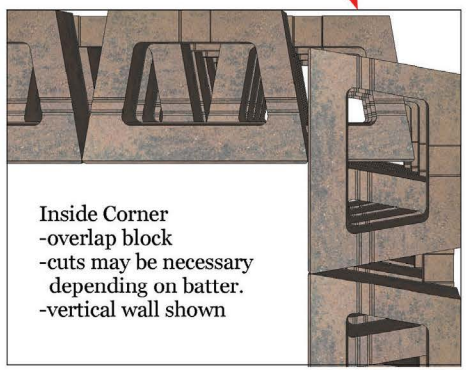
2nd COURSE





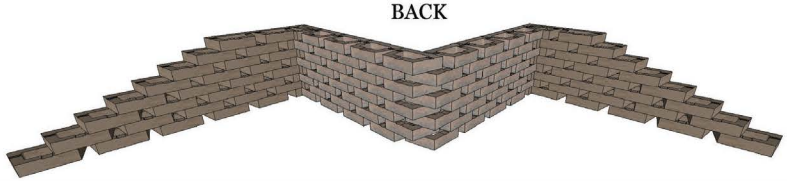


SIDE



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

BACK



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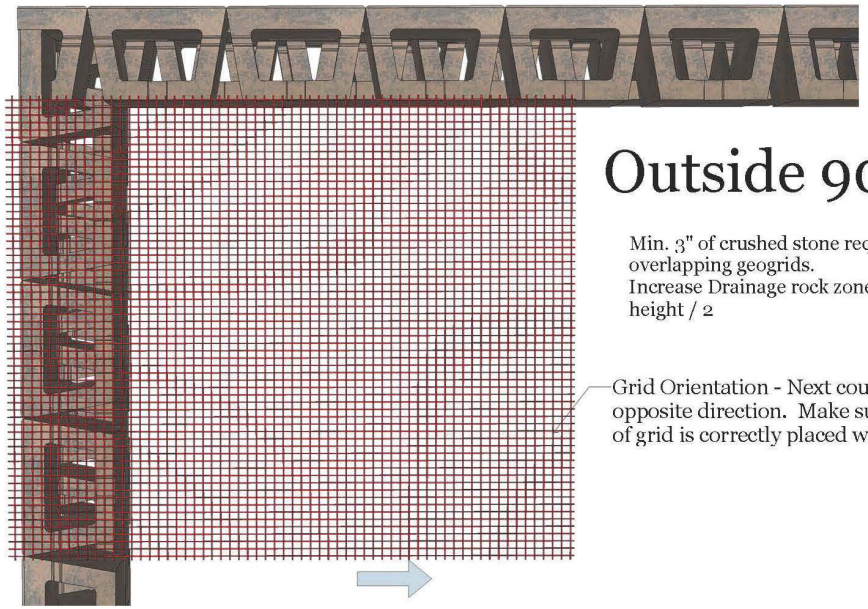
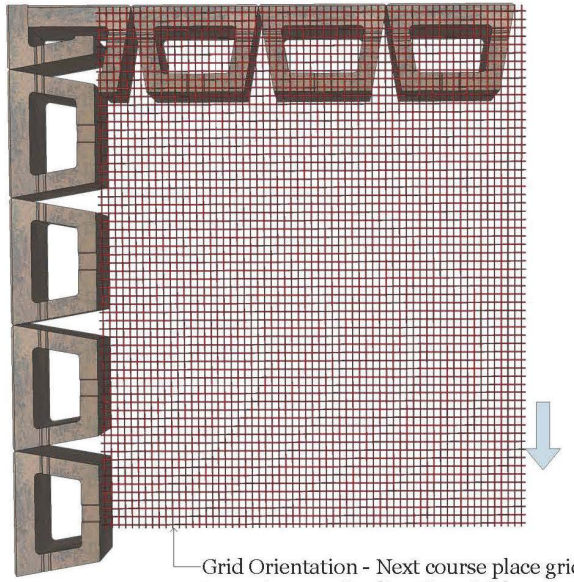


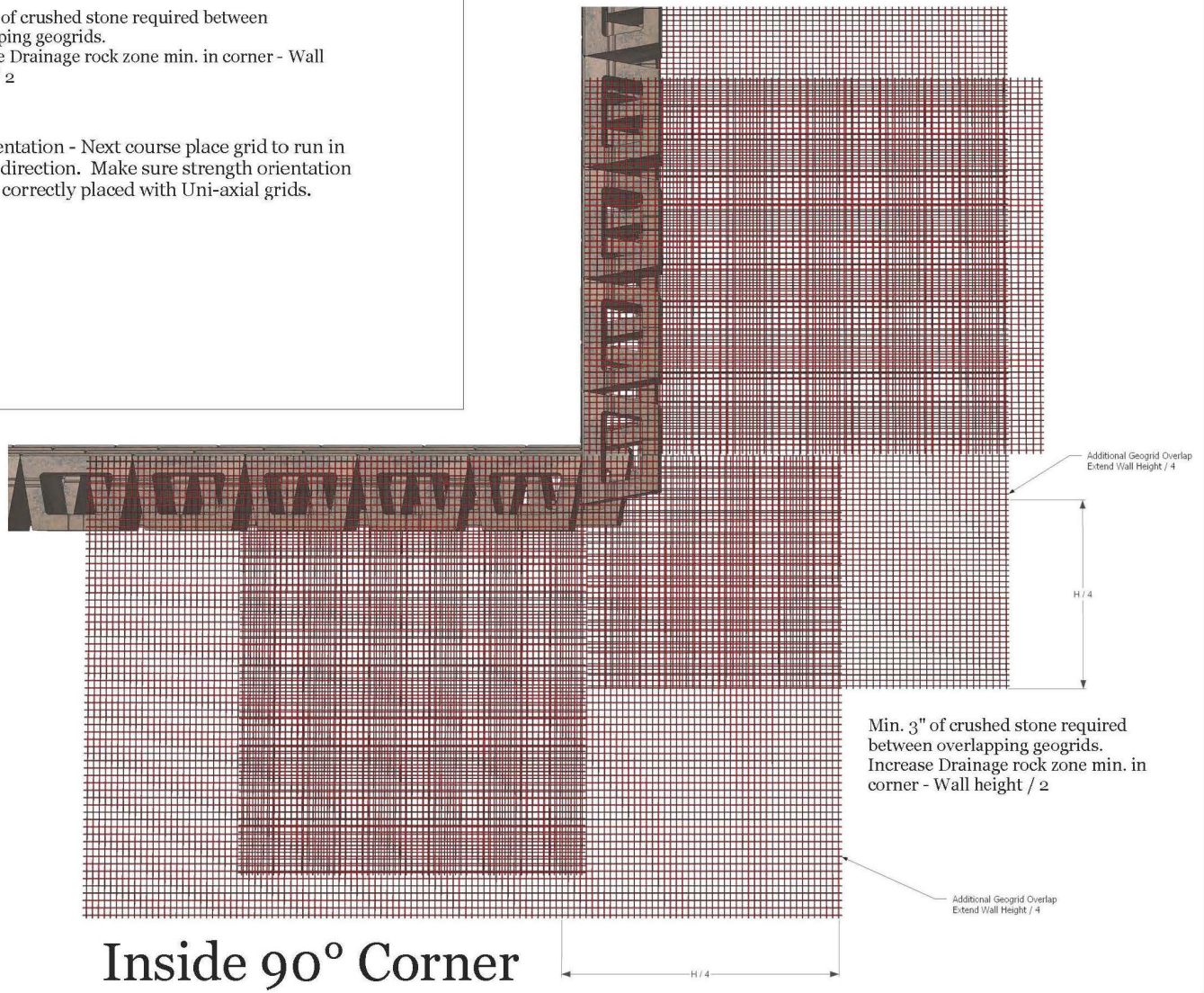
Outside 90° Corner

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.



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

Inside 90° Corner

Ashlar Pattern

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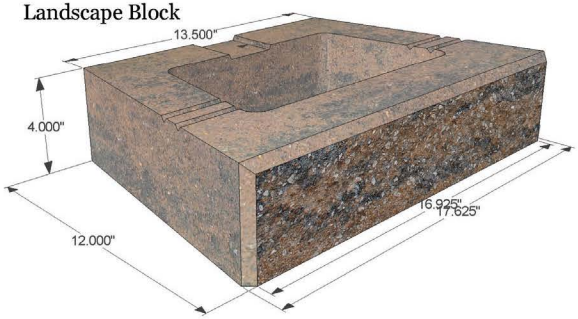
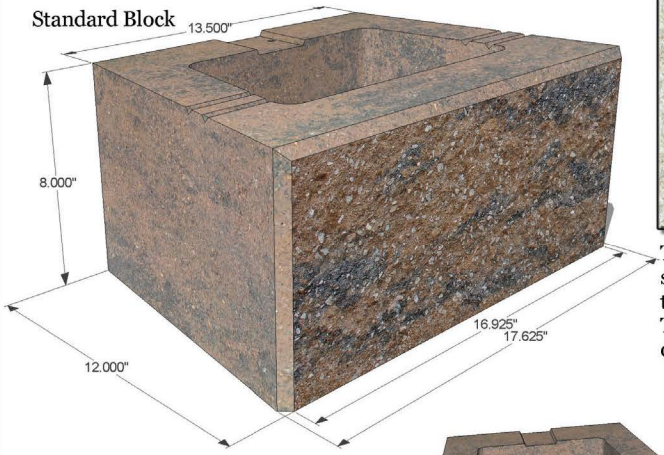
Landscape Block

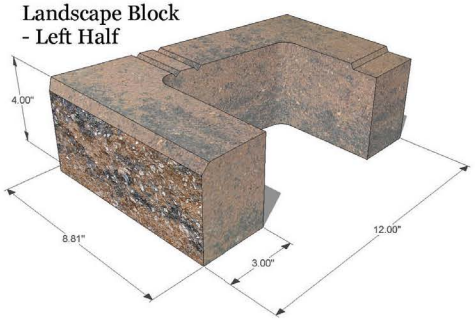


Standard Block

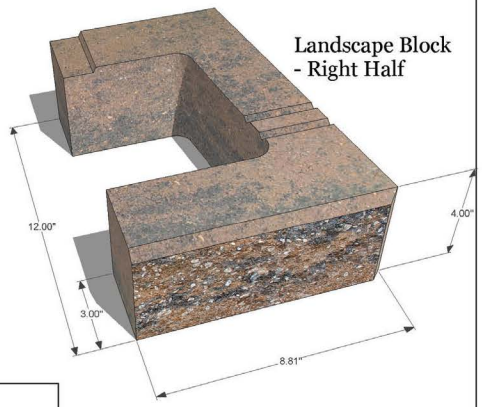


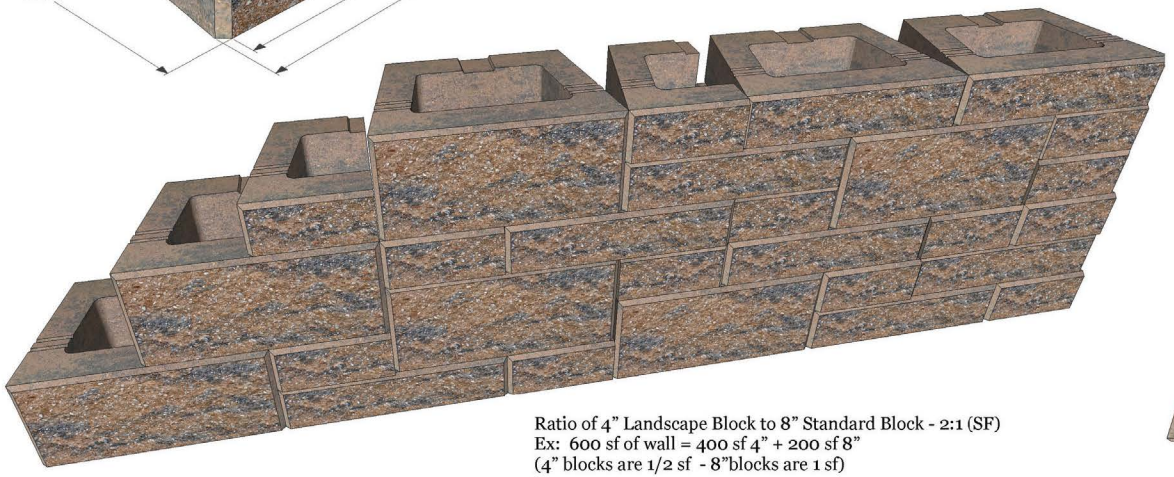
The GeoStone Retaining Wall System's open core design allows for maximum flexibility in all sorts of applications. The latest testiment to this is a multiple piece pattern procedure. By cutting the 4" block in half, a random configuration can be created that utilyzes both the 8" & 4" blocks. This configuration 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.

Landscape Block
- Left Half



Landscape Block
- Right Half

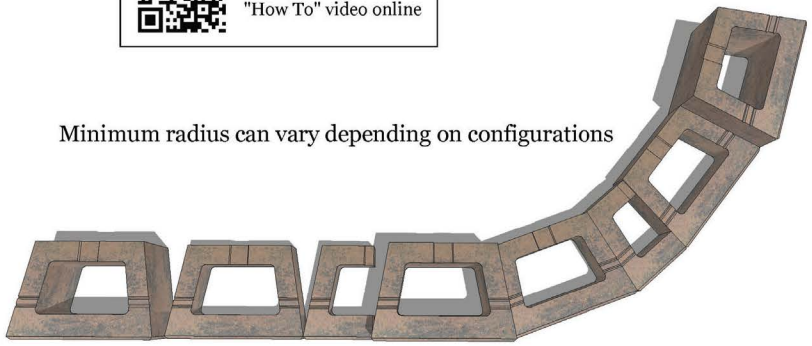




Ratio of 4" Landscape Block to 8" Standard Block - 2:1 (SF)
Ex: 600 sf of wall = 400 sf 4" + 200 sf 8"
(4" blocks are 1/2 sf - 8"blocks are 1 sf)

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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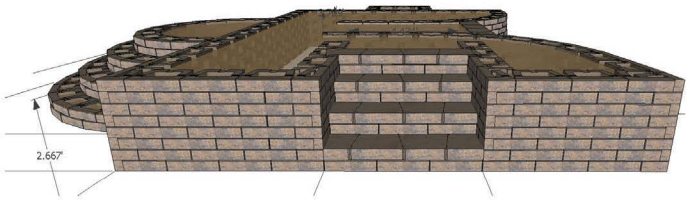
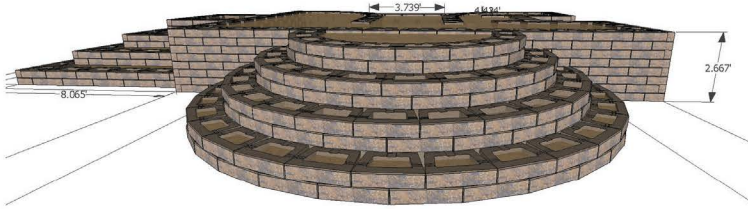
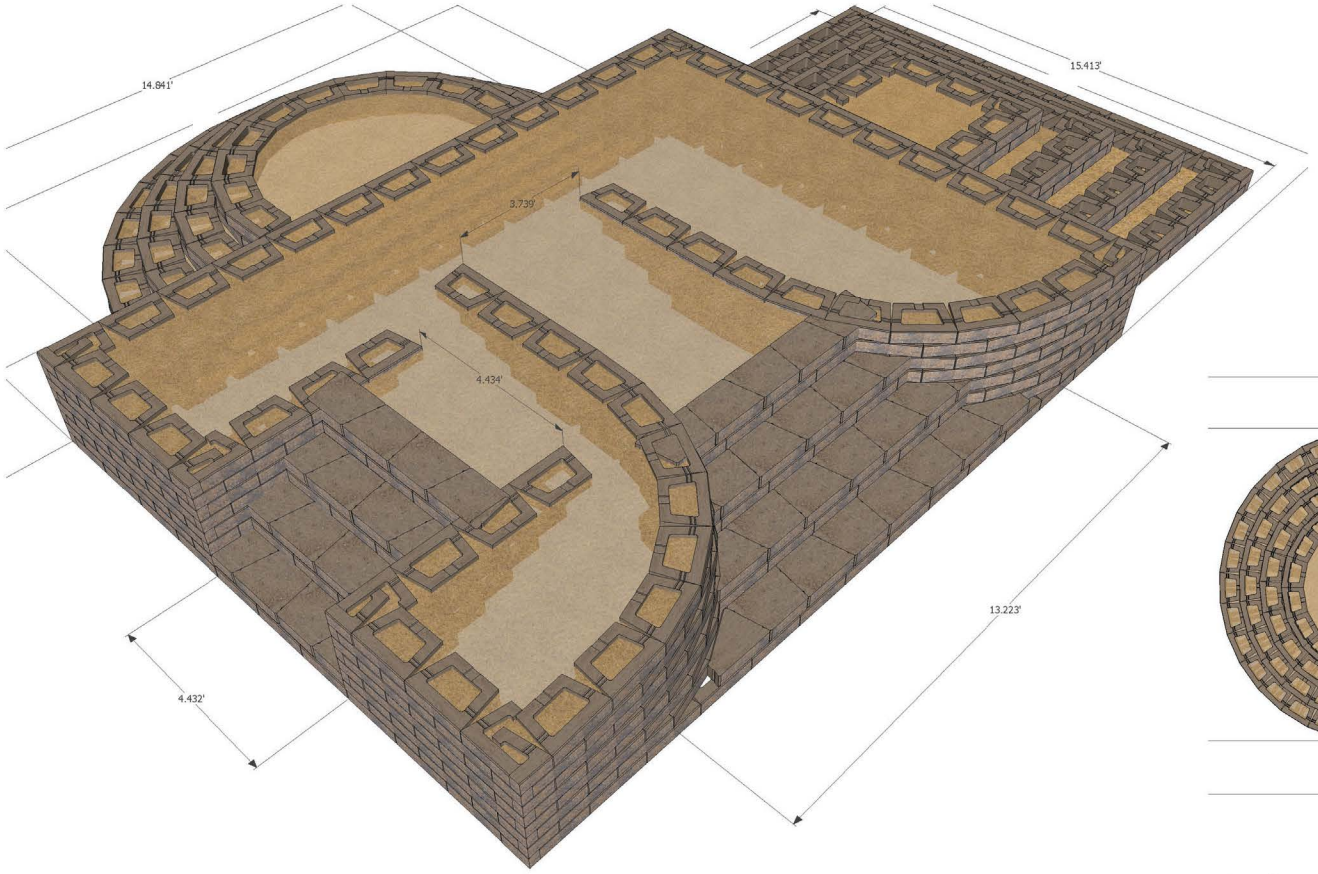
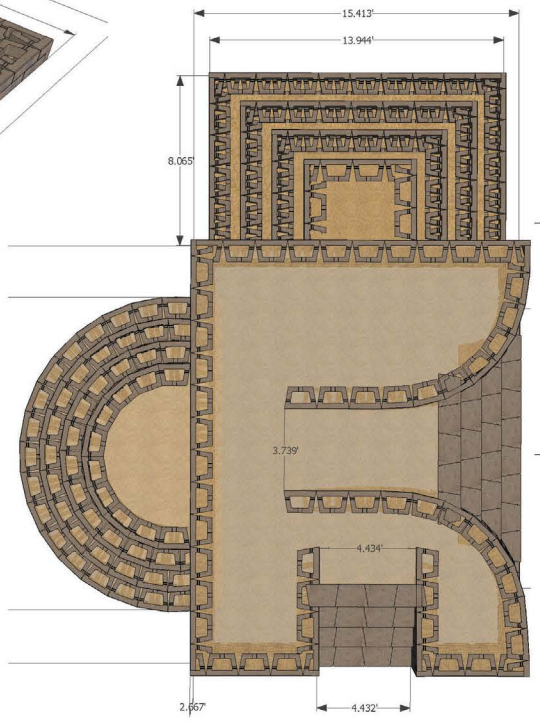
Stairs









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

DRAWN BY
DJA

ISSUE
09.04.12

RE-ISSUE
00.00.00 (0)

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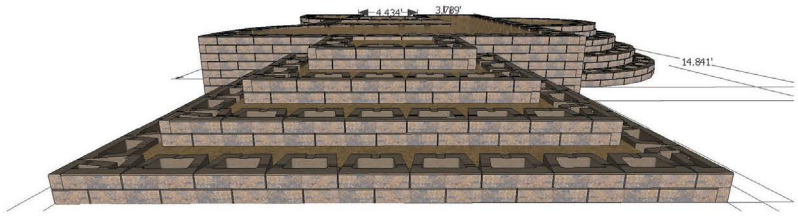
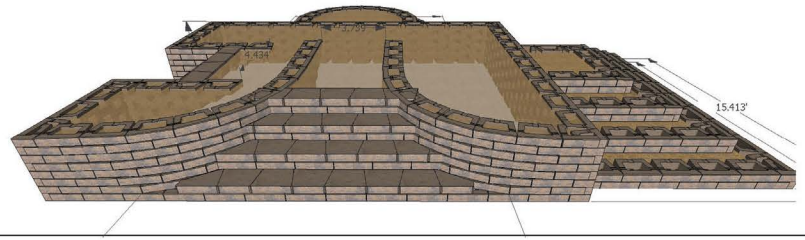
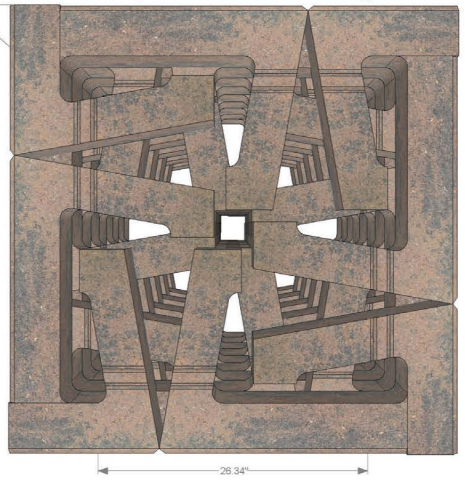




Top View



GeoStone Column

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

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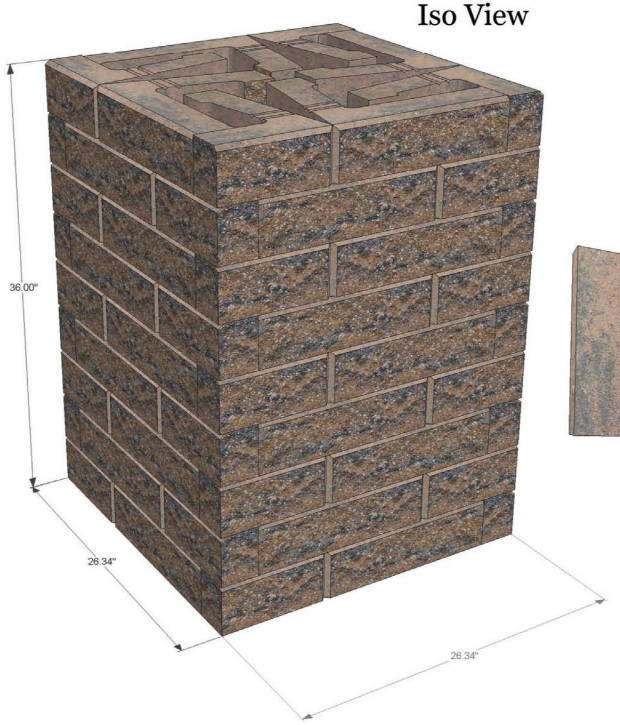
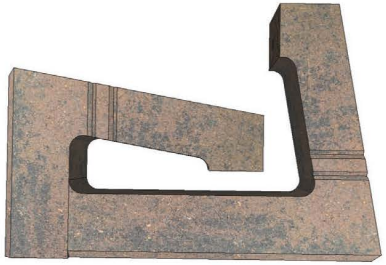
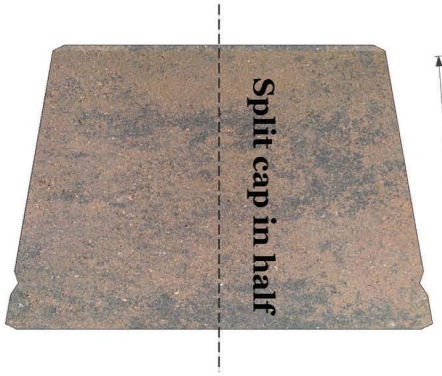
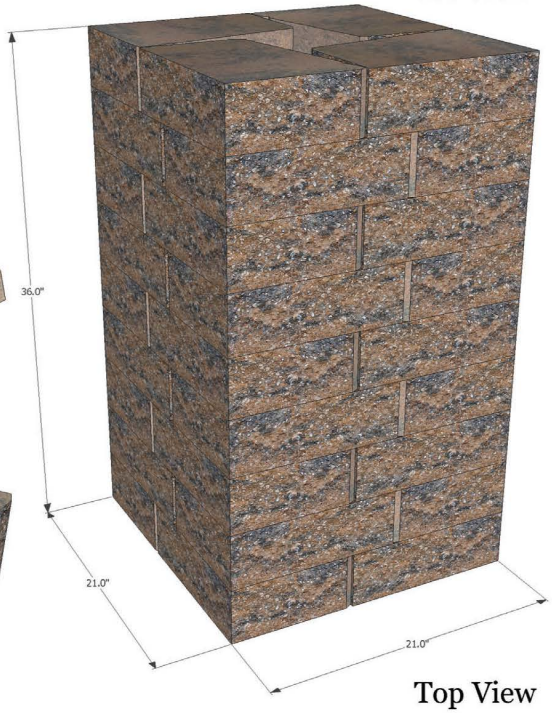
Iso View







Iso View

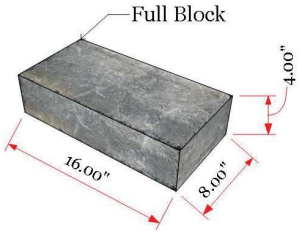


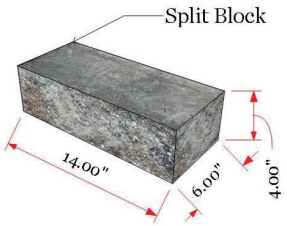
Top View

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





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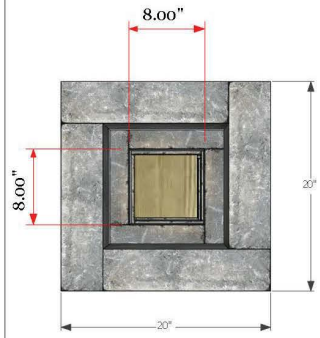
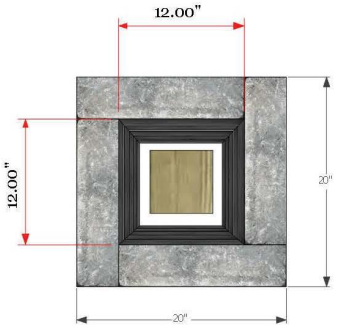
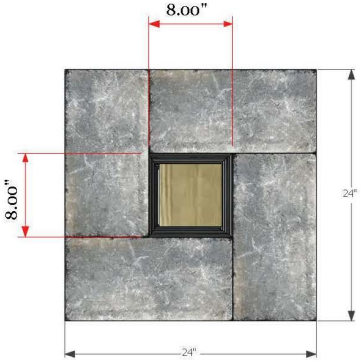
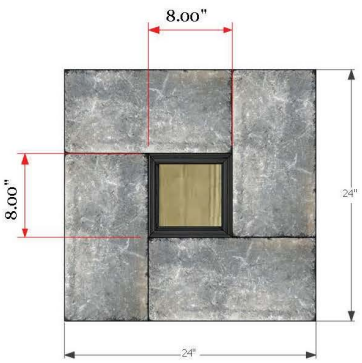
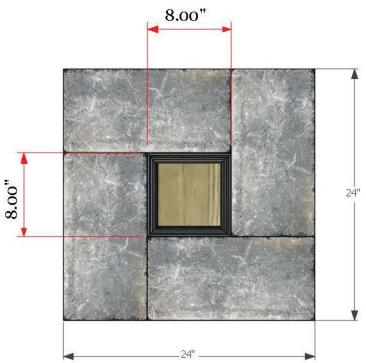
Bottom View



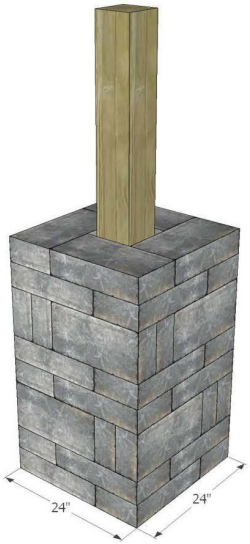








Isometric View



Radius

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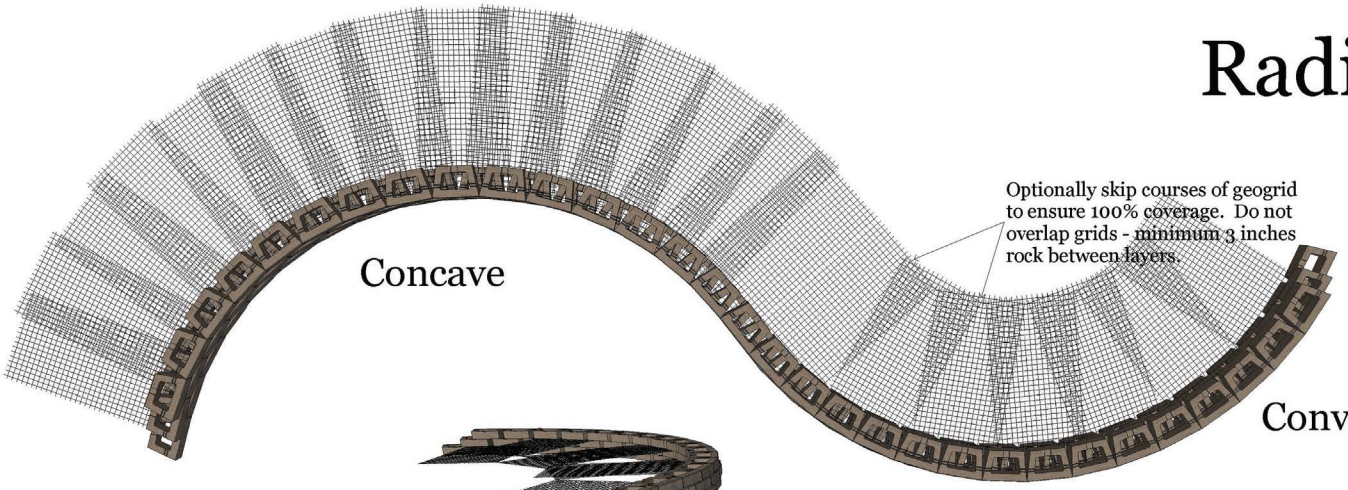

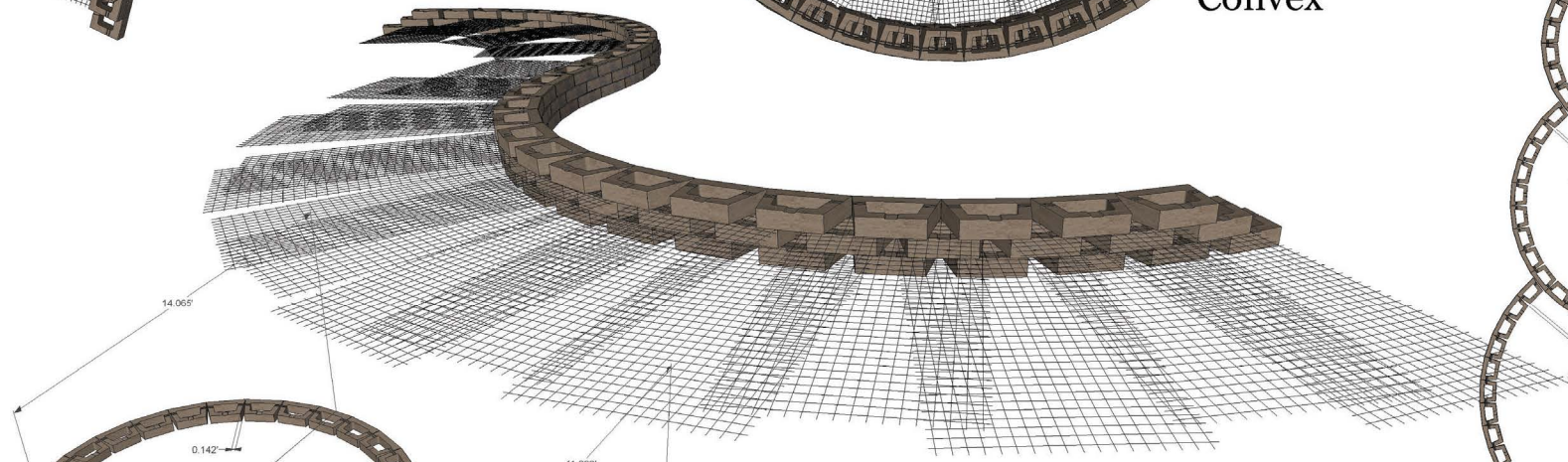

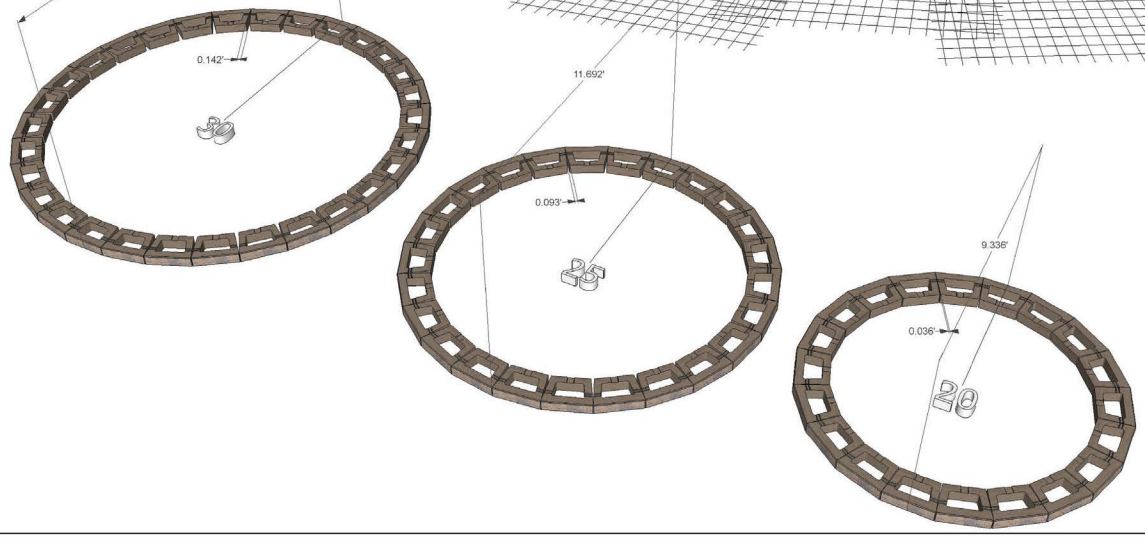

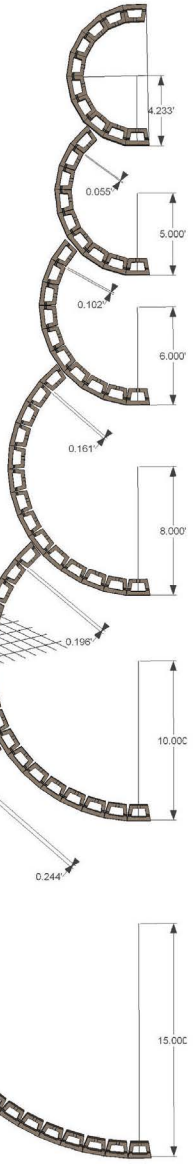

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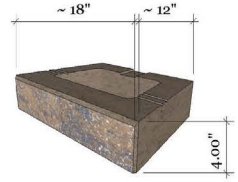

Various Radius Applications
Product Used:
GeoStone Landscape Block
-4"x18"x12" - 36 lbs
-AutumnBlend Color shown

DRAWN BY
DJA

ISSUE
07/06/2015

RE-ISSUE
00.00.00 (0)

DESCRIPTION
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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.

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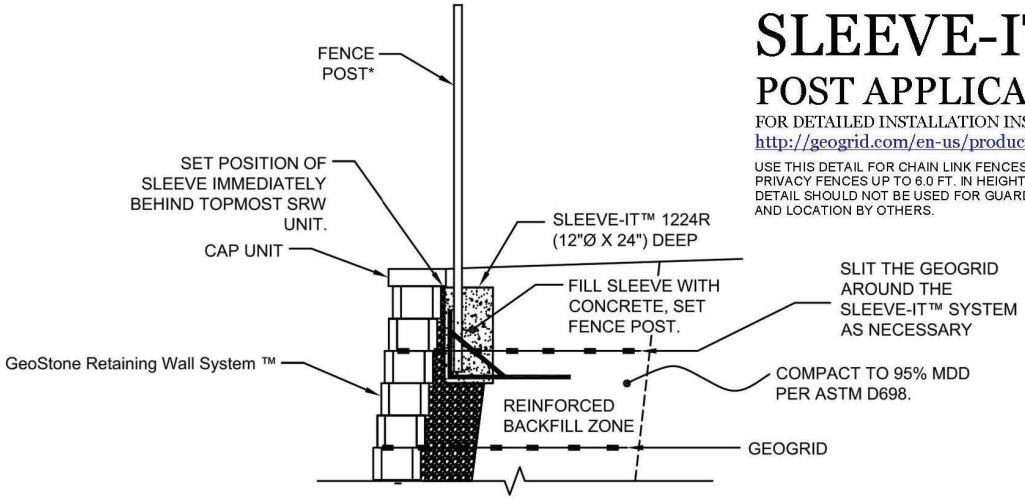
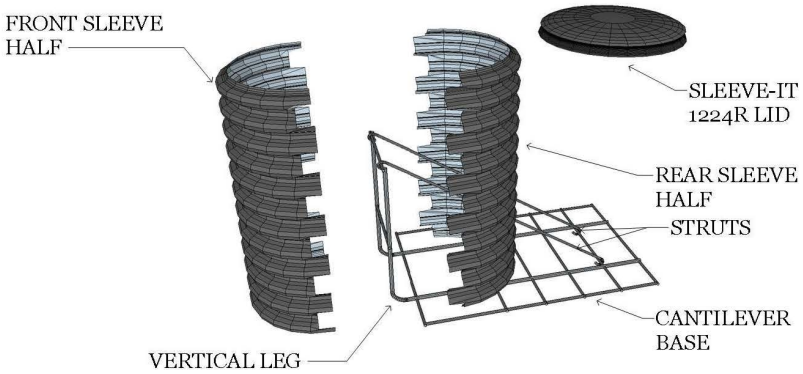
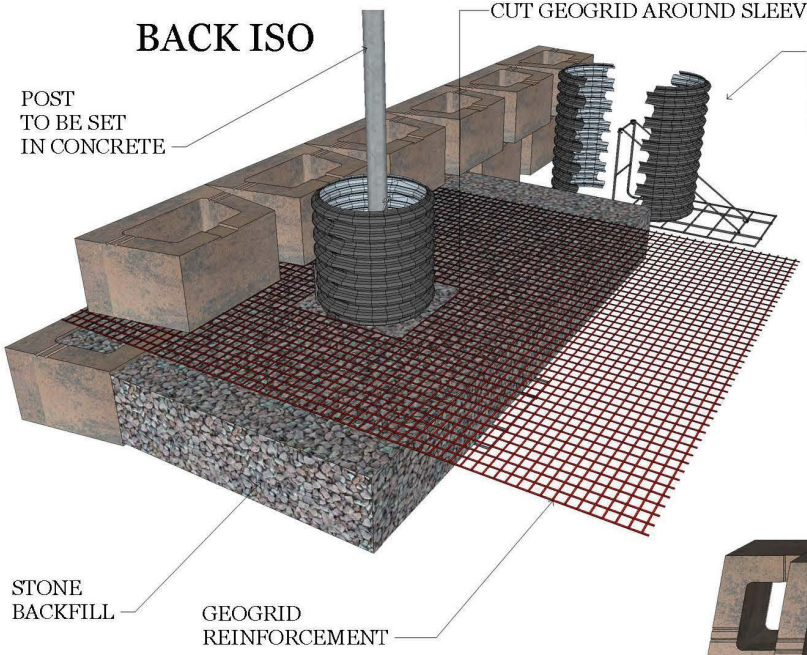
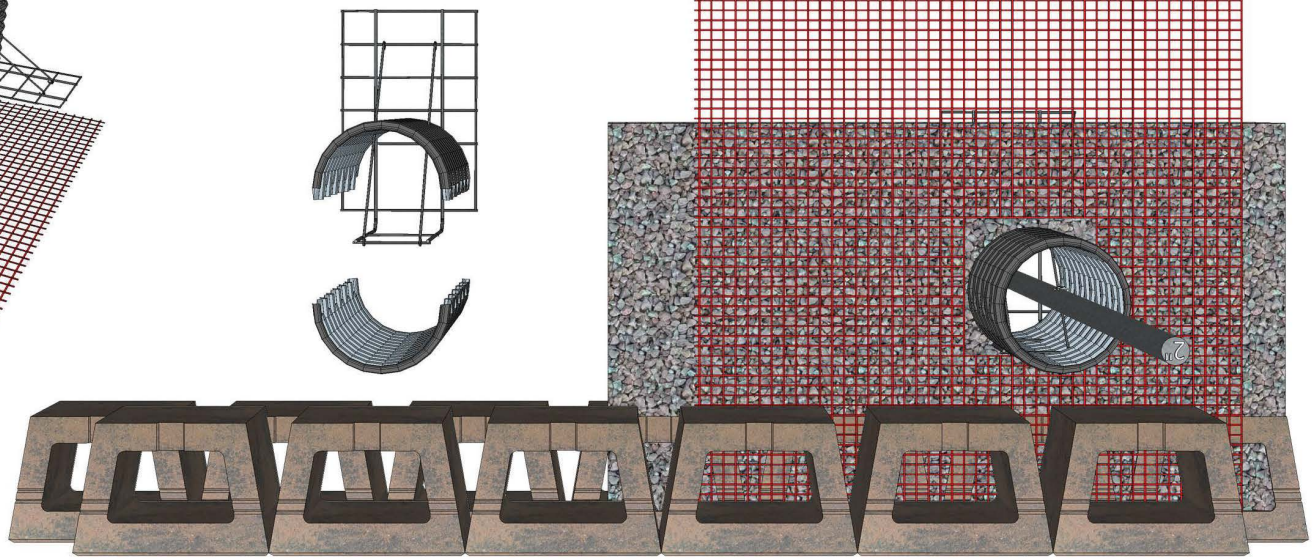




BACK ISO



TOP VIEW



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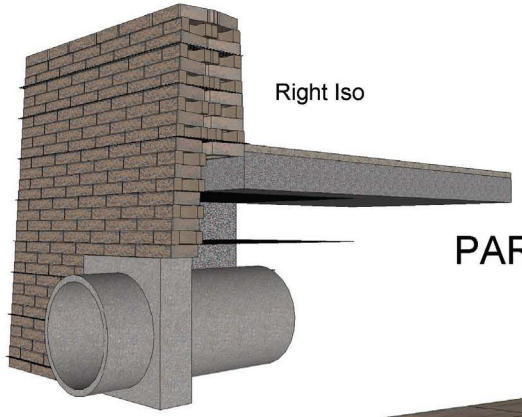
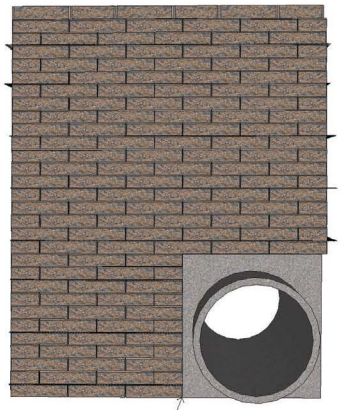
PARAPET / CULVERT APPLICATION

Right Iso

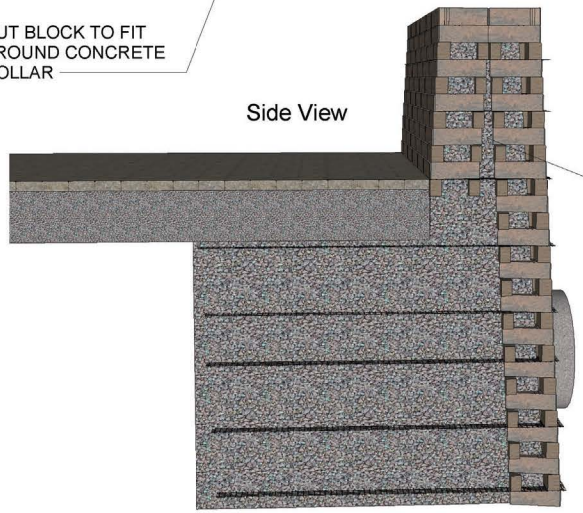


Front View



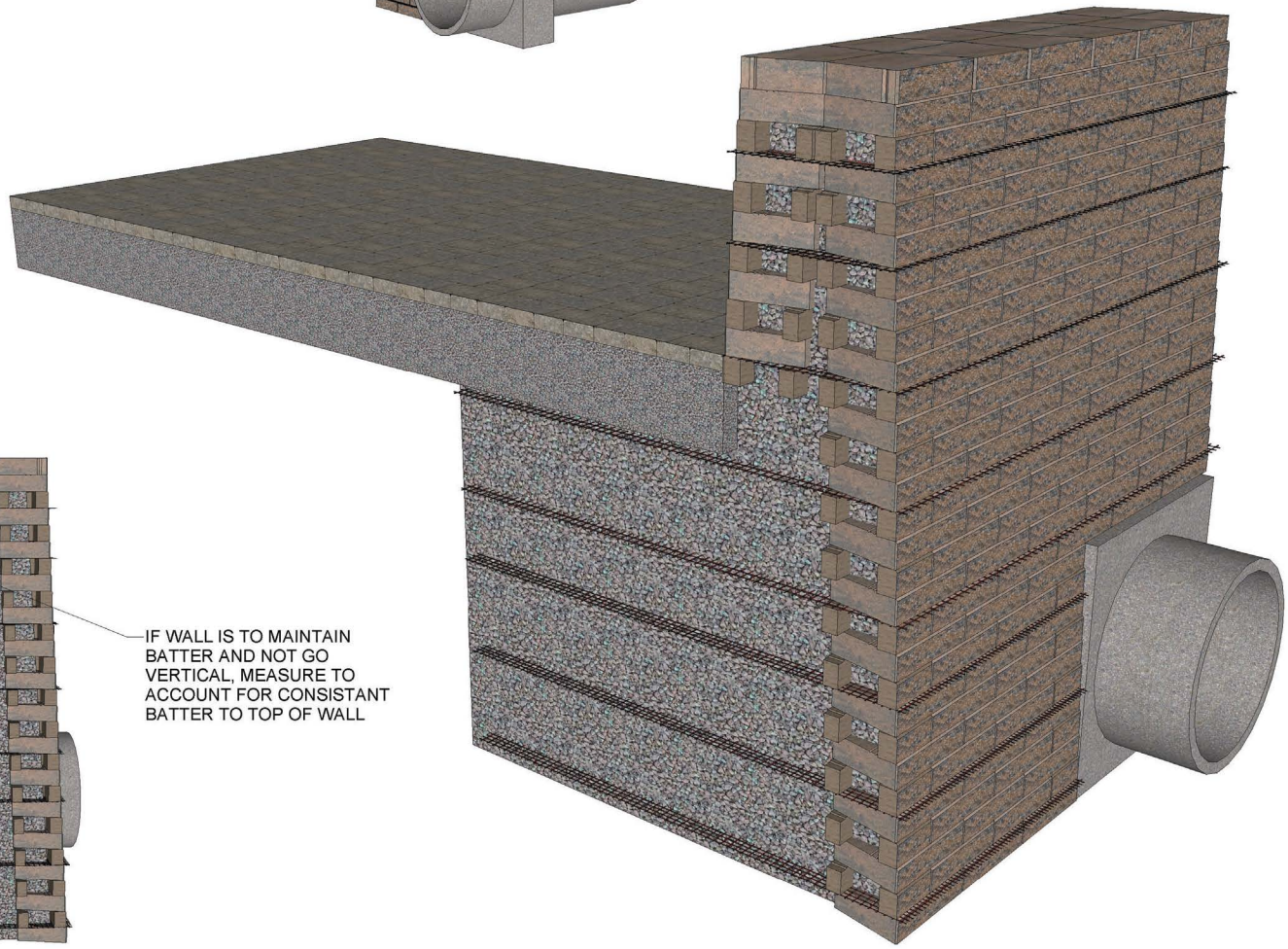
CUT BLOCK TO FIT AROUND CONCRETE COLLAR

Side View



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

Left Iso



RAFT FOOTING

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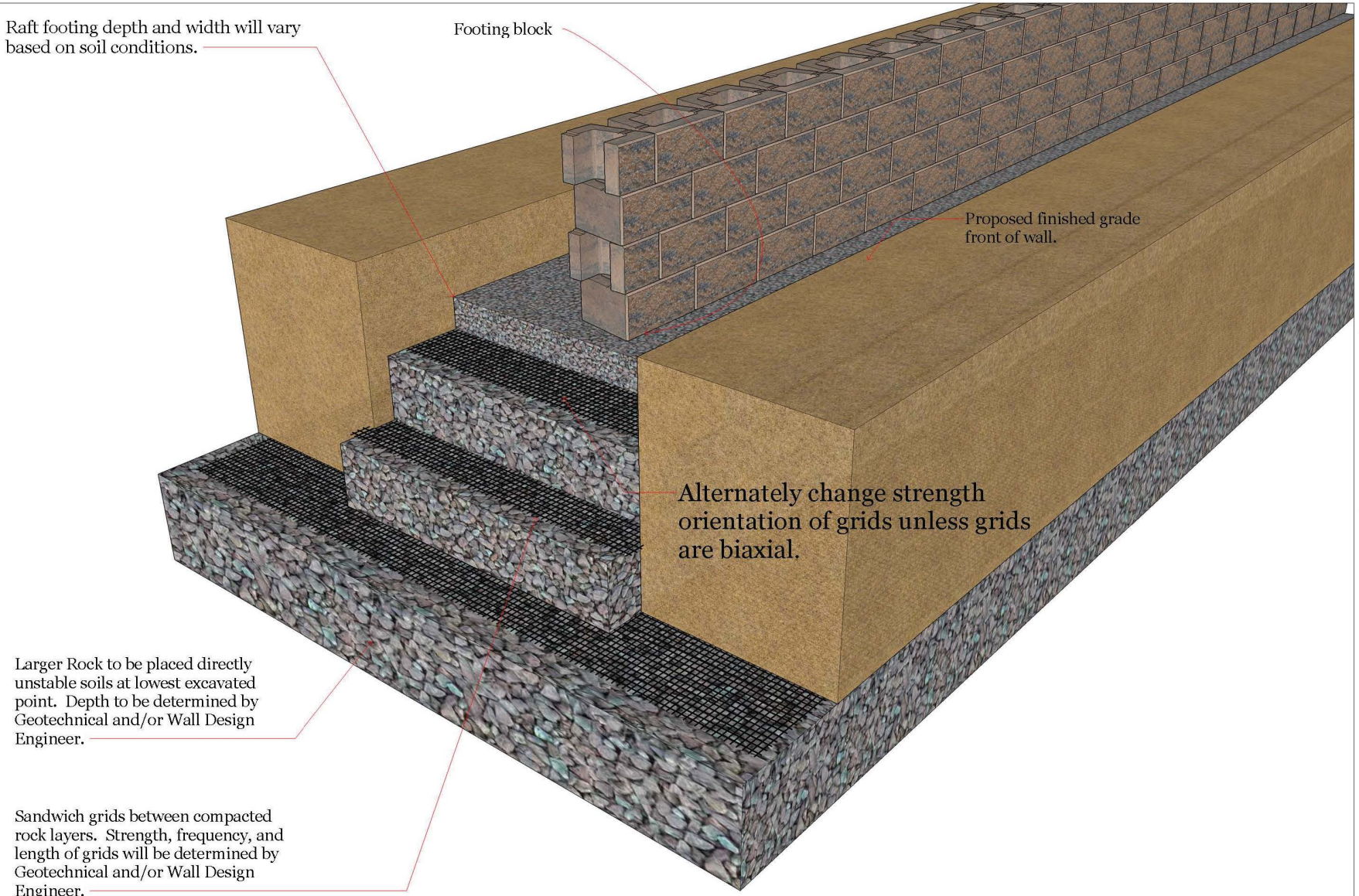

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DRAWN BY
DJA

ISSUE
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RE-ISSUE
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