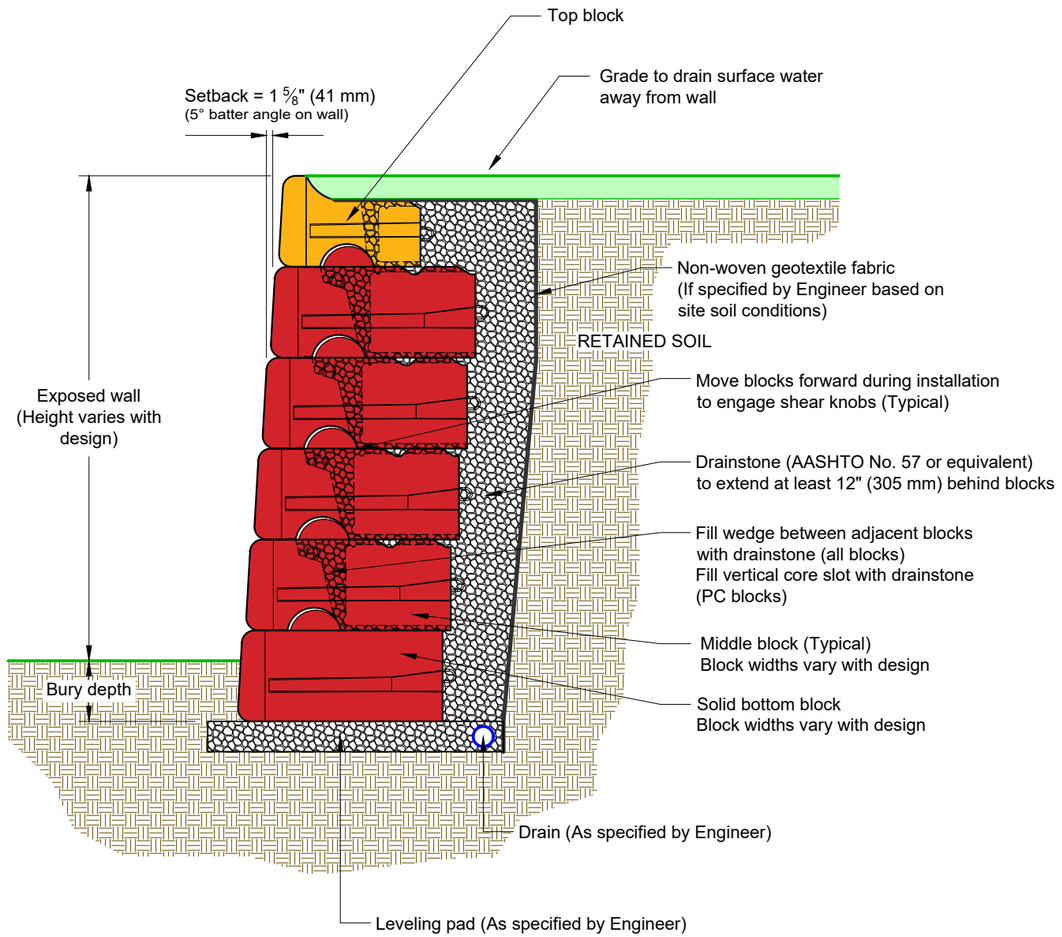
CONSTRUCTION DETAILS

NOTES

Typical Gravity Wall Section



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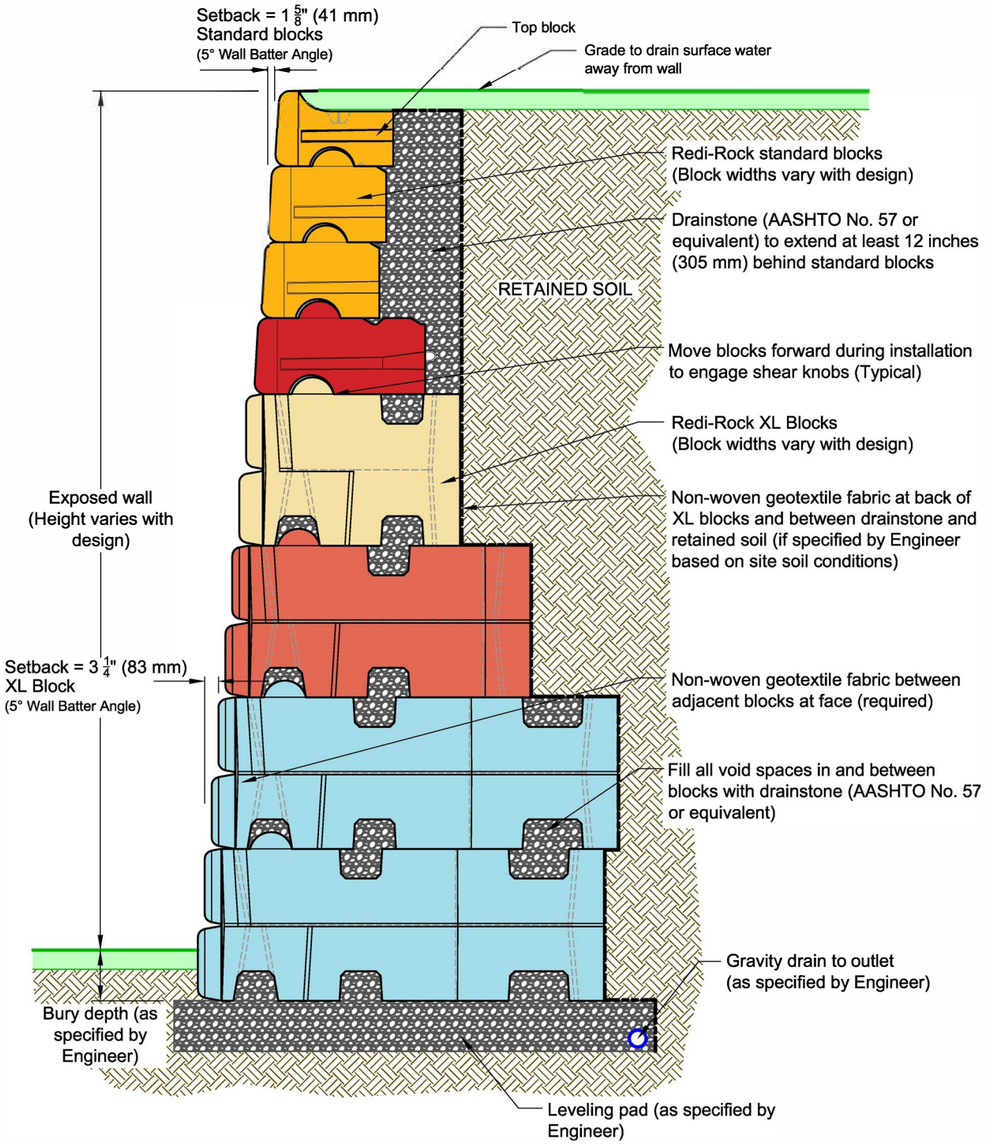
Typical XL Gravity Wall Section



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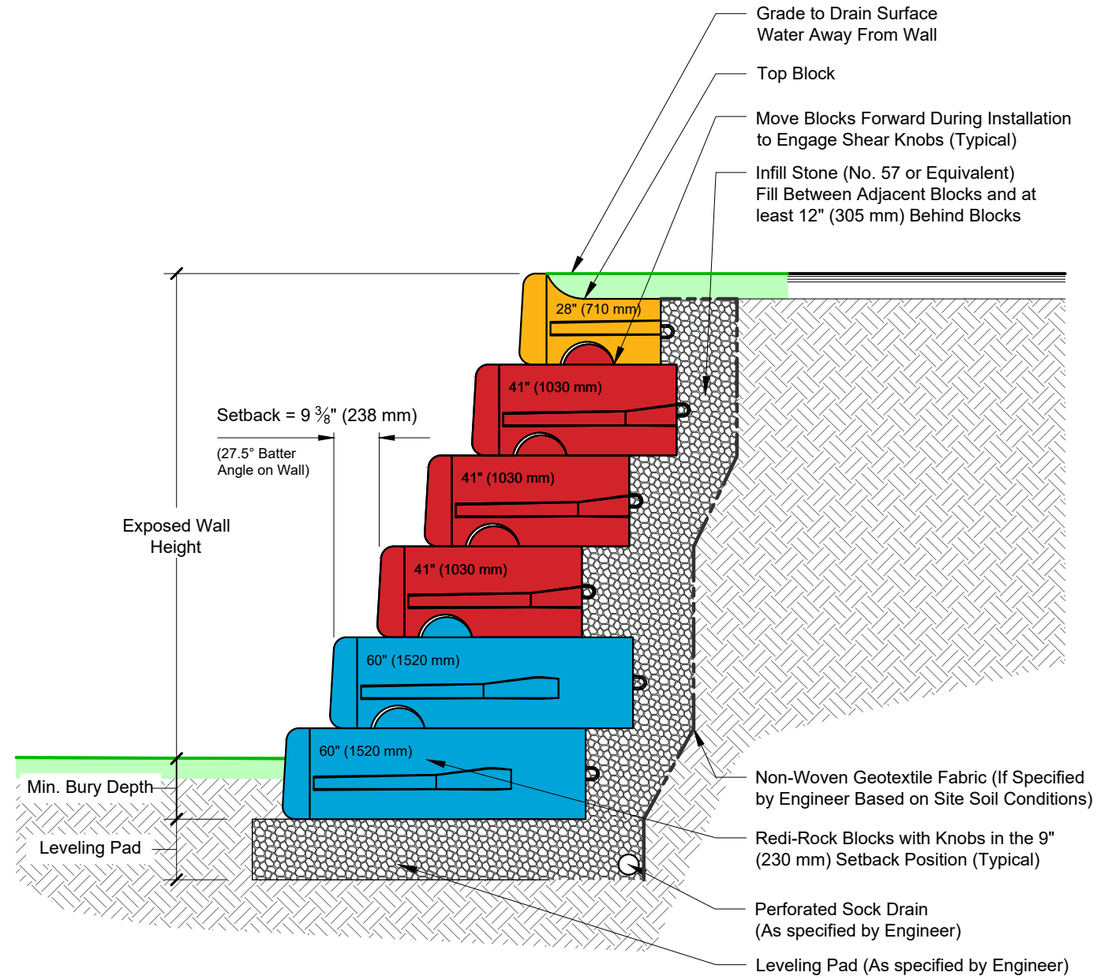
Large Batter Wall Section



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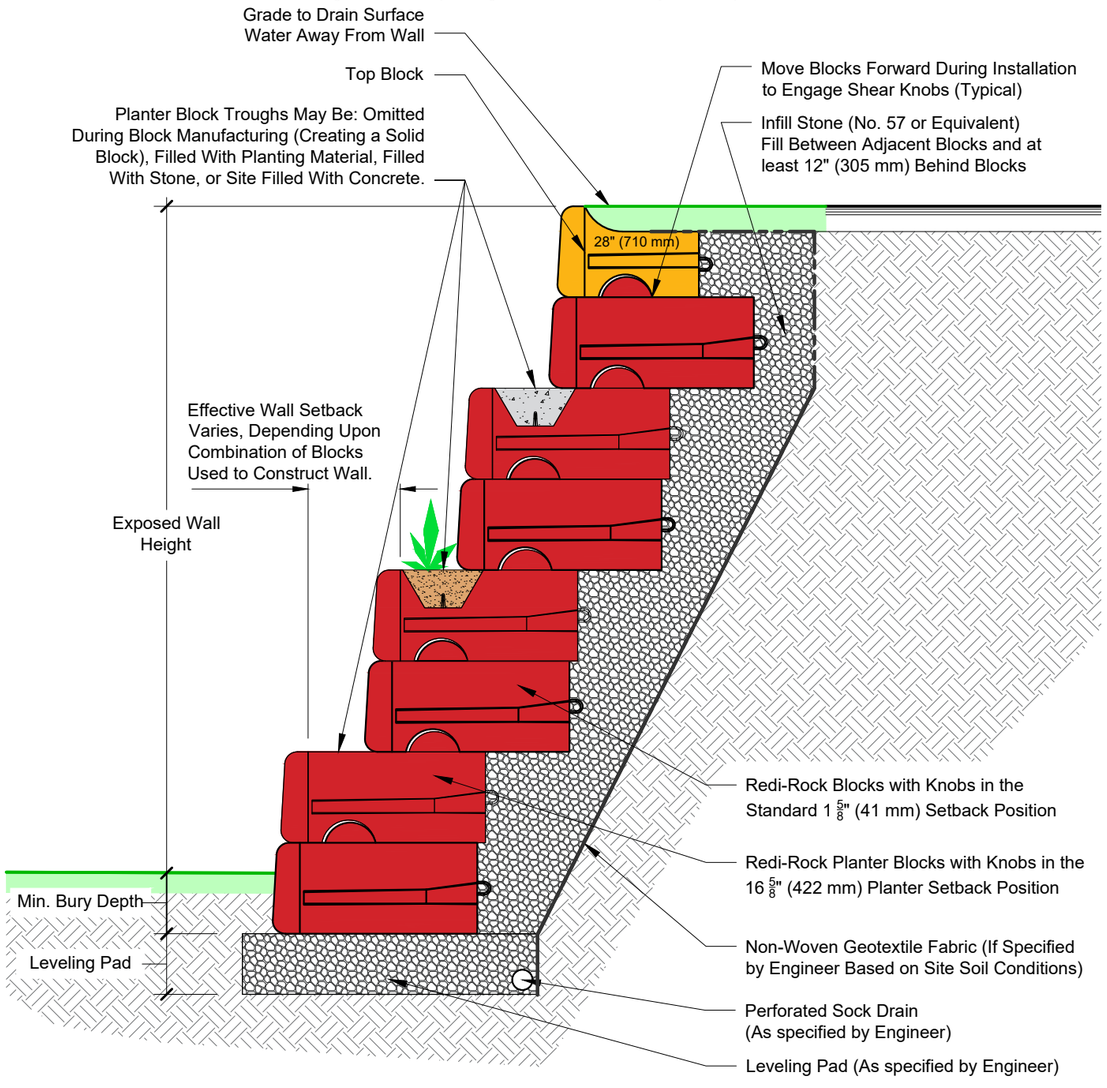
Alternating Planter & Standard Batter Wall Section

The Redi-Rock retaining blocks are available with multiple shear knob size and location options, to permit wall batter design flexibility. This detail depicts alternating 16 5/8" (422 mm) Planter and 1 5/8" (41 mm) Standard setback blocks, however designs are possible using more than one Standard setback block between Planter blocks. The regular repetition of combinations of different setback blocks within a wall profile can have structural and aesthetic significance. Abrupt changes in wall batter that carry over multiple blocks are not recommended.



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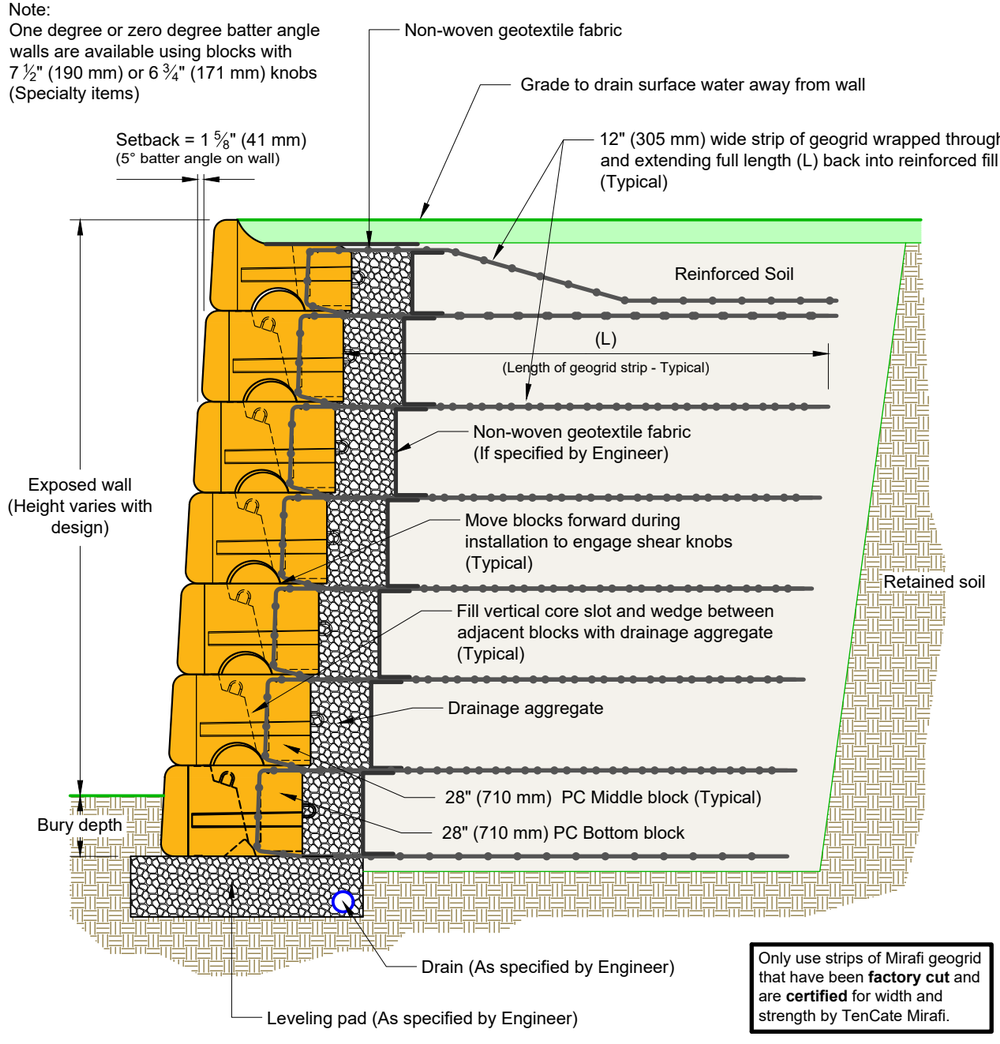
Typical Reinforced Wall Section

Note:
One degree or zero degree batter angle walls are available using blocks with 7 ½" (190 mm) or 6 ¾" (171 mm) knobs (Specialty items)



Only use strips of Mirafi geogrid that have been **factory cut** and are **certified** for width and strength by TenCate Mirafi.

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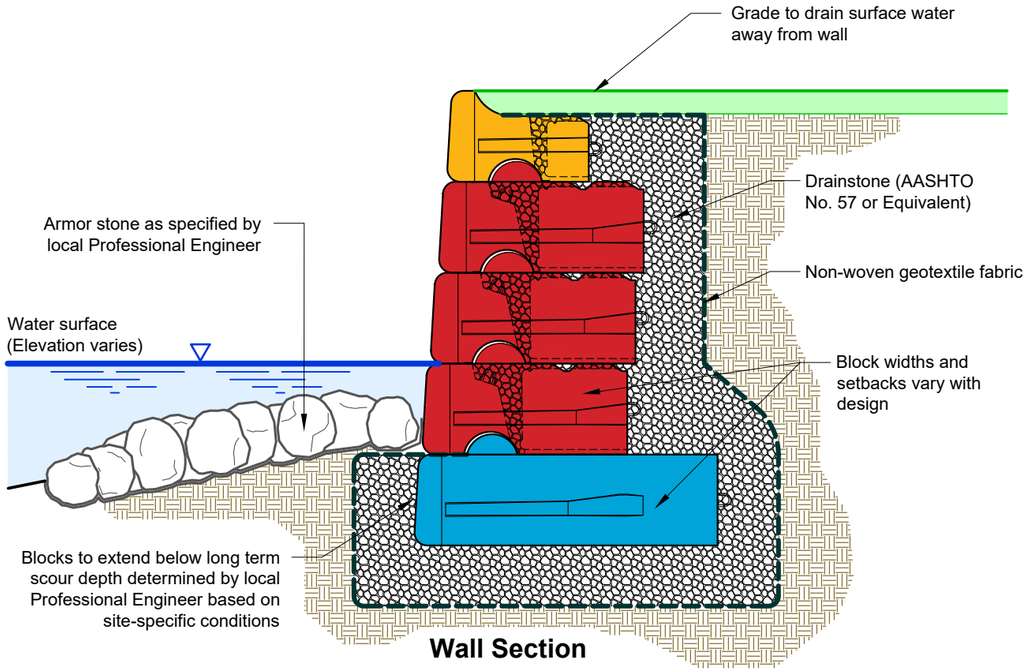
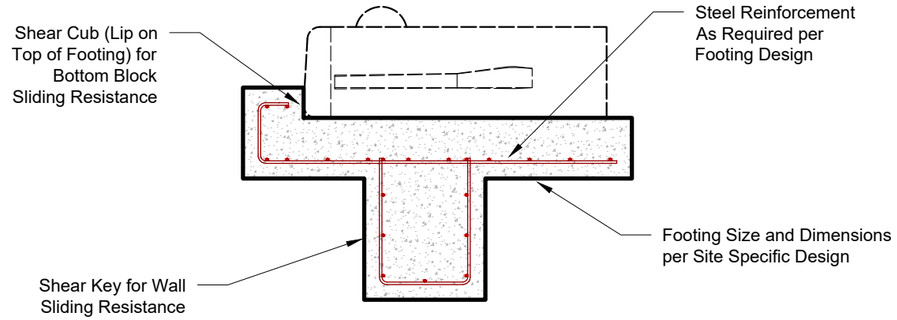
Conceptual Seawall Detail



Wall Section

Notes:

- Use ASTM No. 57 stone (or as specified by local Professional Engineer) to infill between blocks.
- Preliminary wall height charts do not apply and should not be used for walls in water applications due to the variety of site-specific variables.
- Contact your local Professional Engineer for specific details and final design.
- Walls may require geogrid reinforcement.
- Refer to final engineering plans.



Optional Concrete Footing

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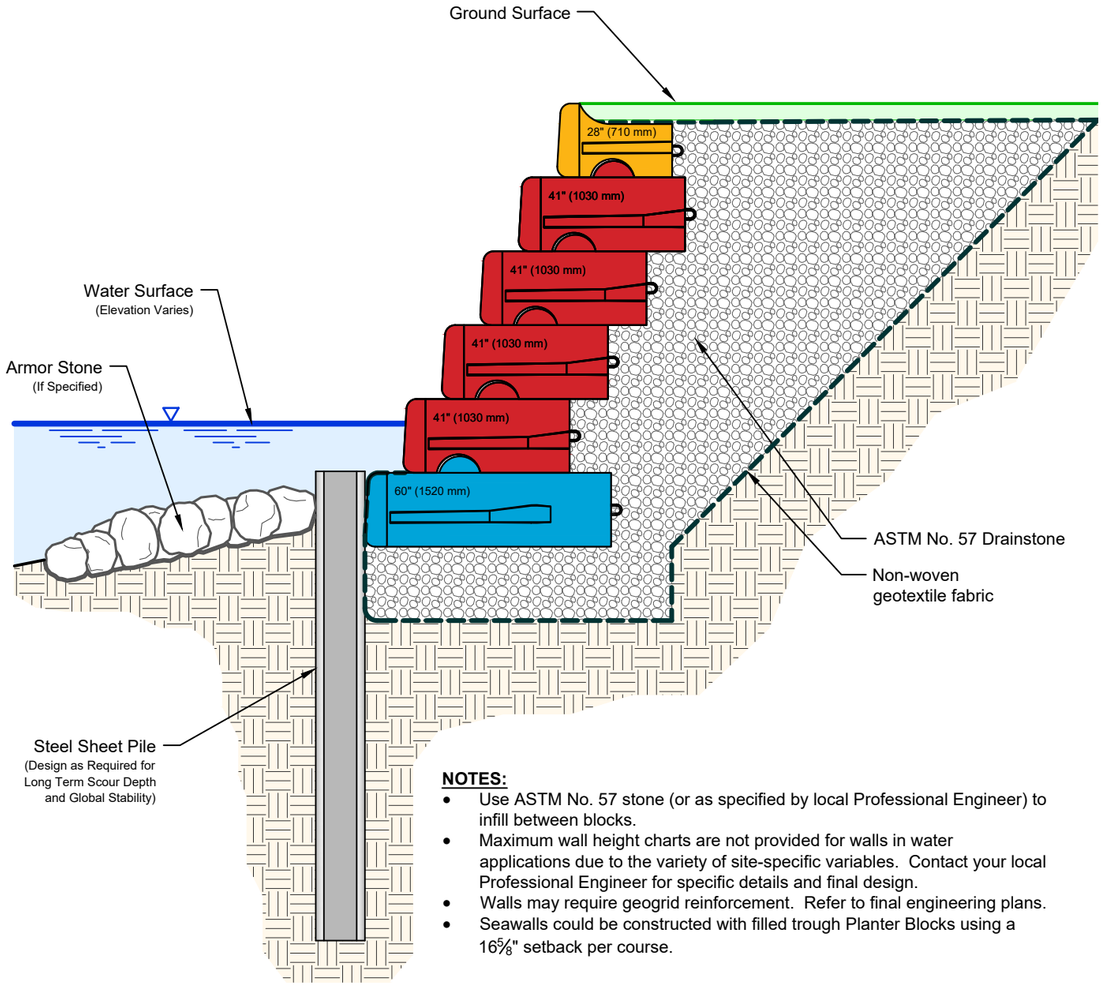
Conceptual Sheetpile Protected Seawall Detail



NOTES:

- Use ASTM No. 57 stone (or as specified by local Professional Engineer) to infill between blocks.
- Maximum wall height charts are not provided for walls in water applications due to the variety of site-specific variables. Contact your local Professional Engineer for specific details and final design.
- Walls may require geogrid reinforcement. Refer to final engineering plans.
- Seawalls could be constructed with filled trough Planter Blocks using a 16⅝" setback per course.

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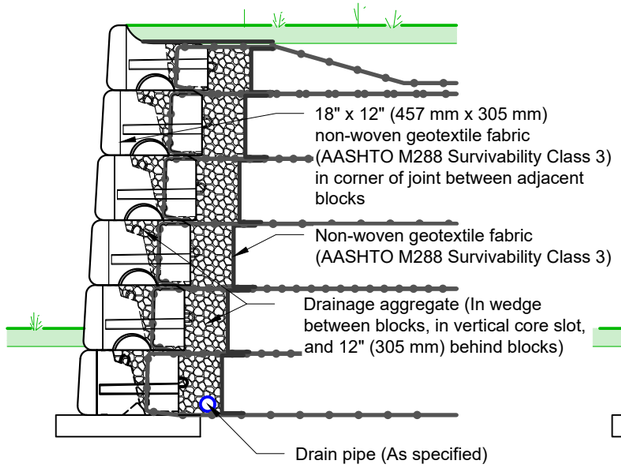
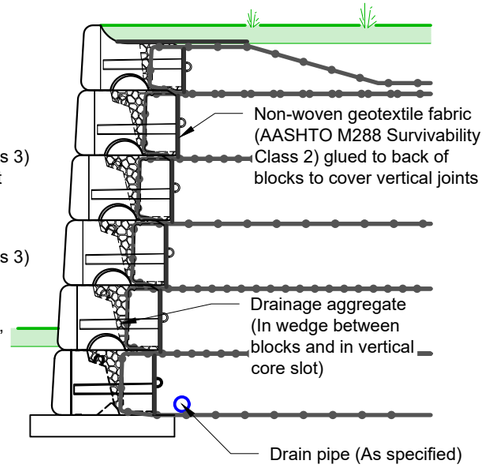
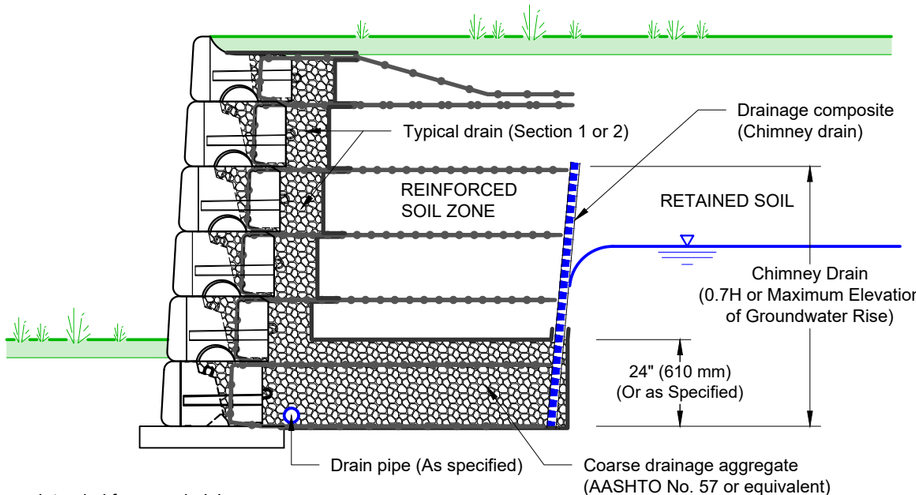
Internal Drainage Options



Typical Section - Option 1



Typical Section - Option 2



Blanket and Chimney Drain Section

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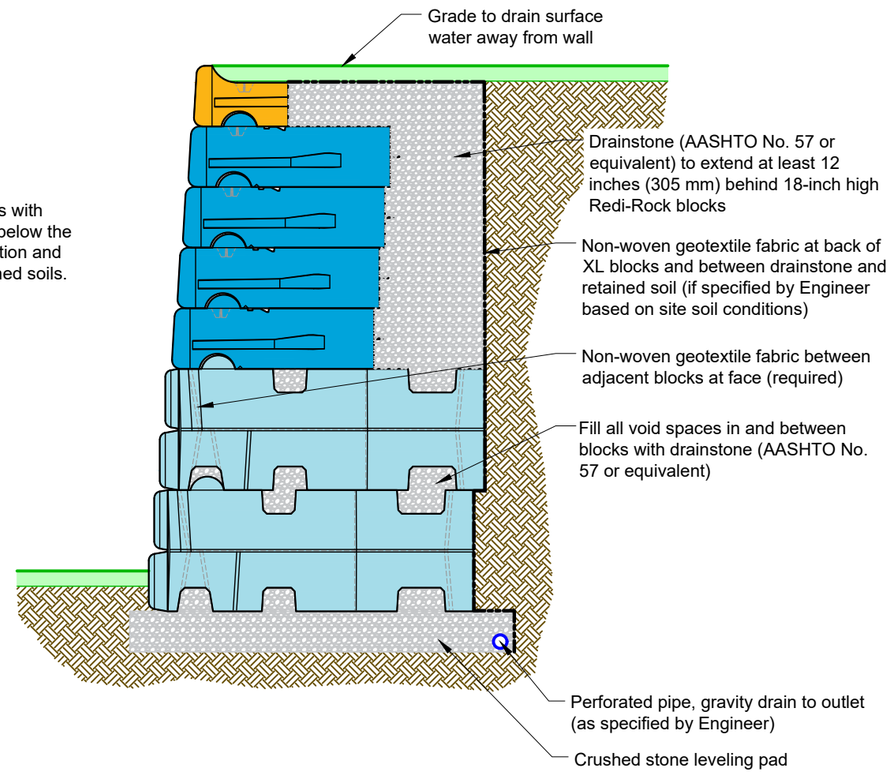
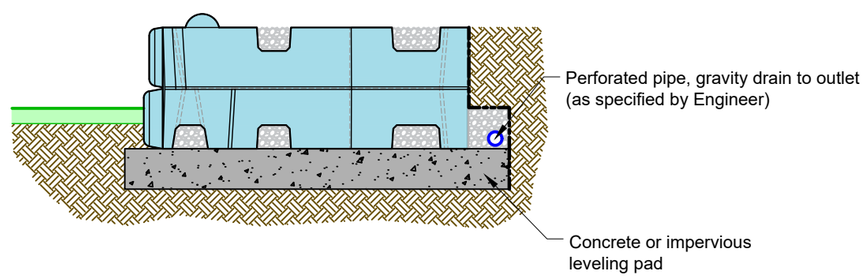
Typical Drainage Detail - Cross Section

Applicable for sites with groundwater well below the leveling pad elevation and well-drained retained soils.



Alternate Detail for Concrete or Impervious Leveling Pad



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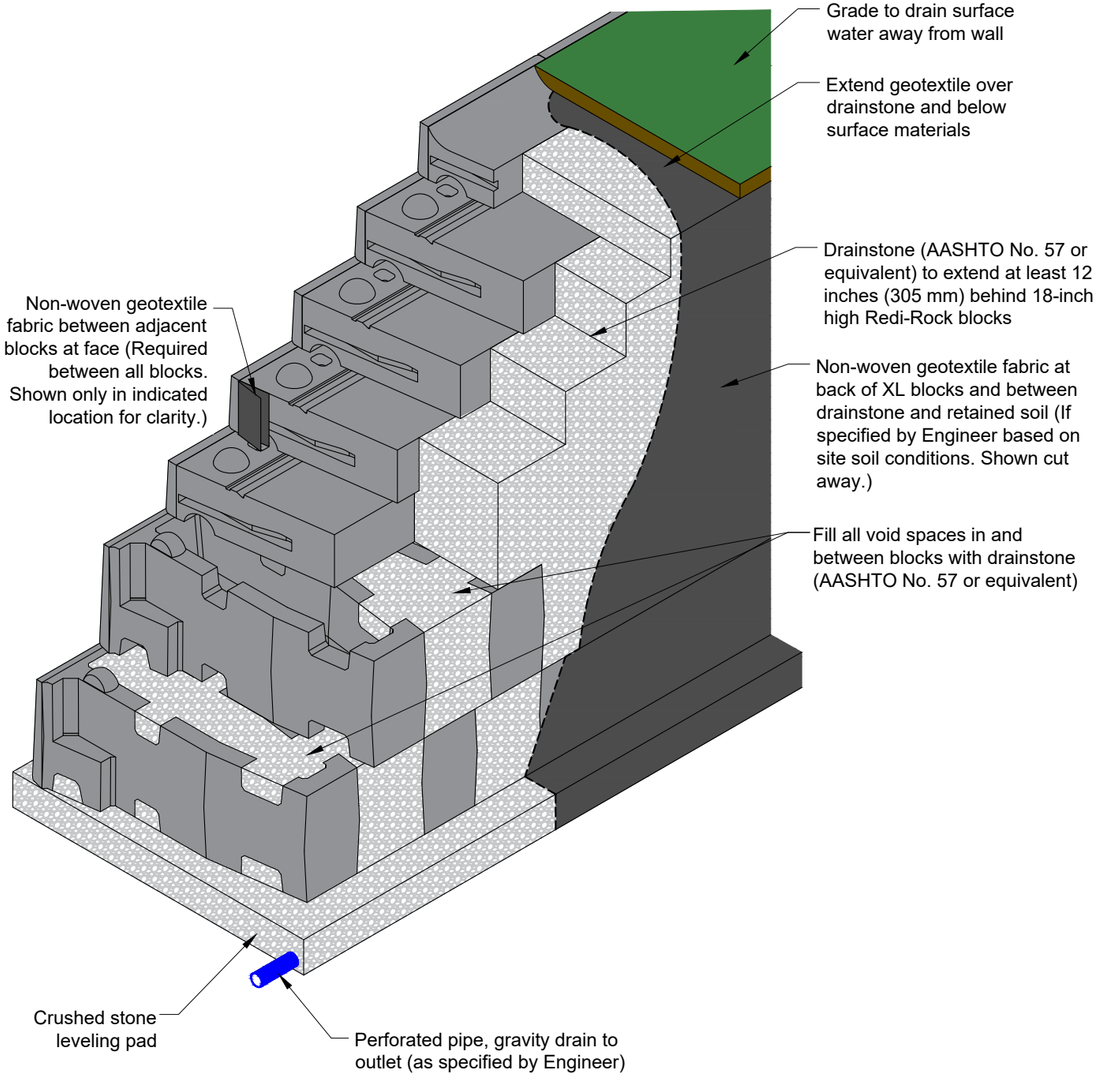
Typical Drainage Detail - Isometric View



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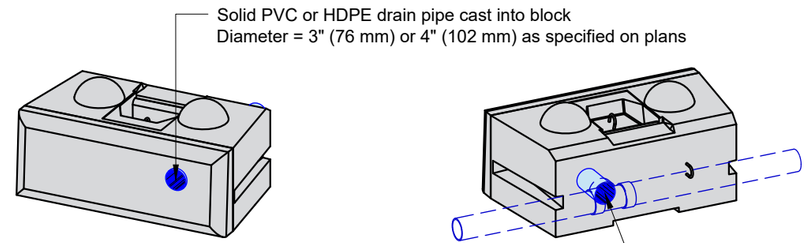
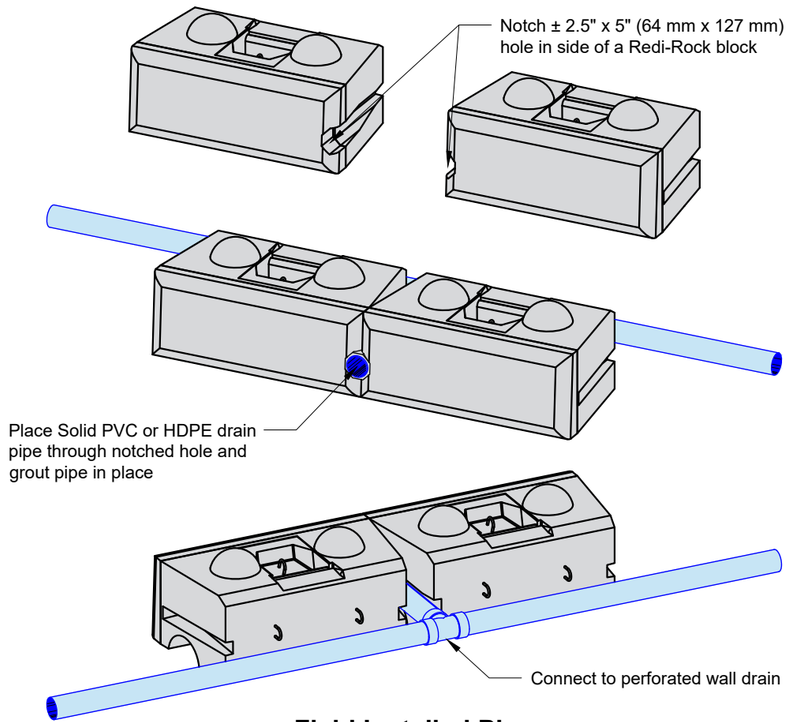
Wall Drain Weep Hole Options



Custom Pipe Cast into Block



Field Installed Pipe

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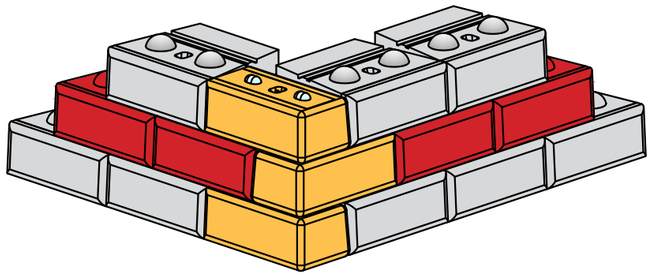
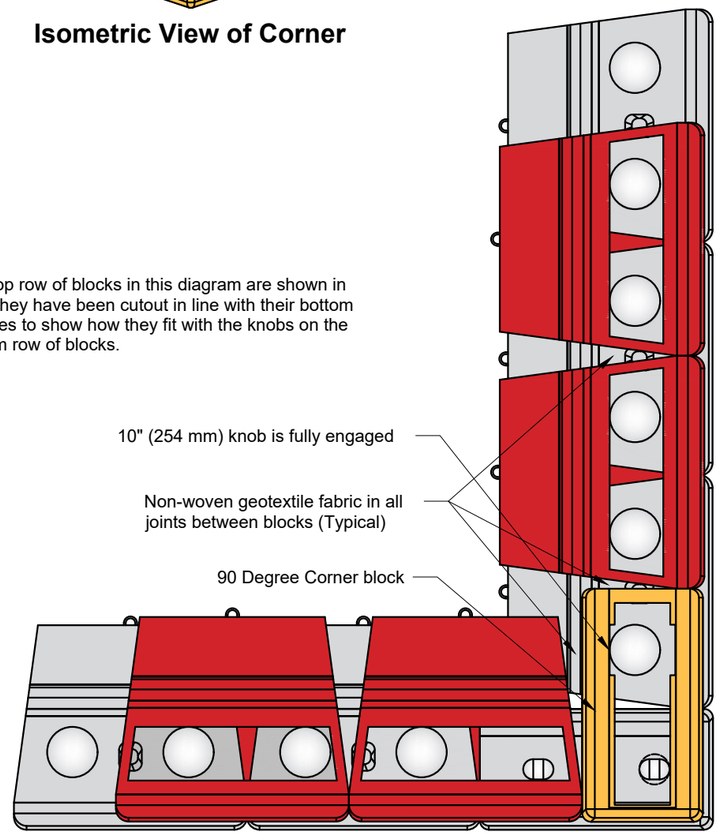
90° Outside Corner



Isometric View of Corner

The top row of blocks in this diagram are shown in red. They have been cutout in line with their bottom grooves to show how they fit with the knobs on the bottom row of blocks.



Top View of Bottom Two Rows

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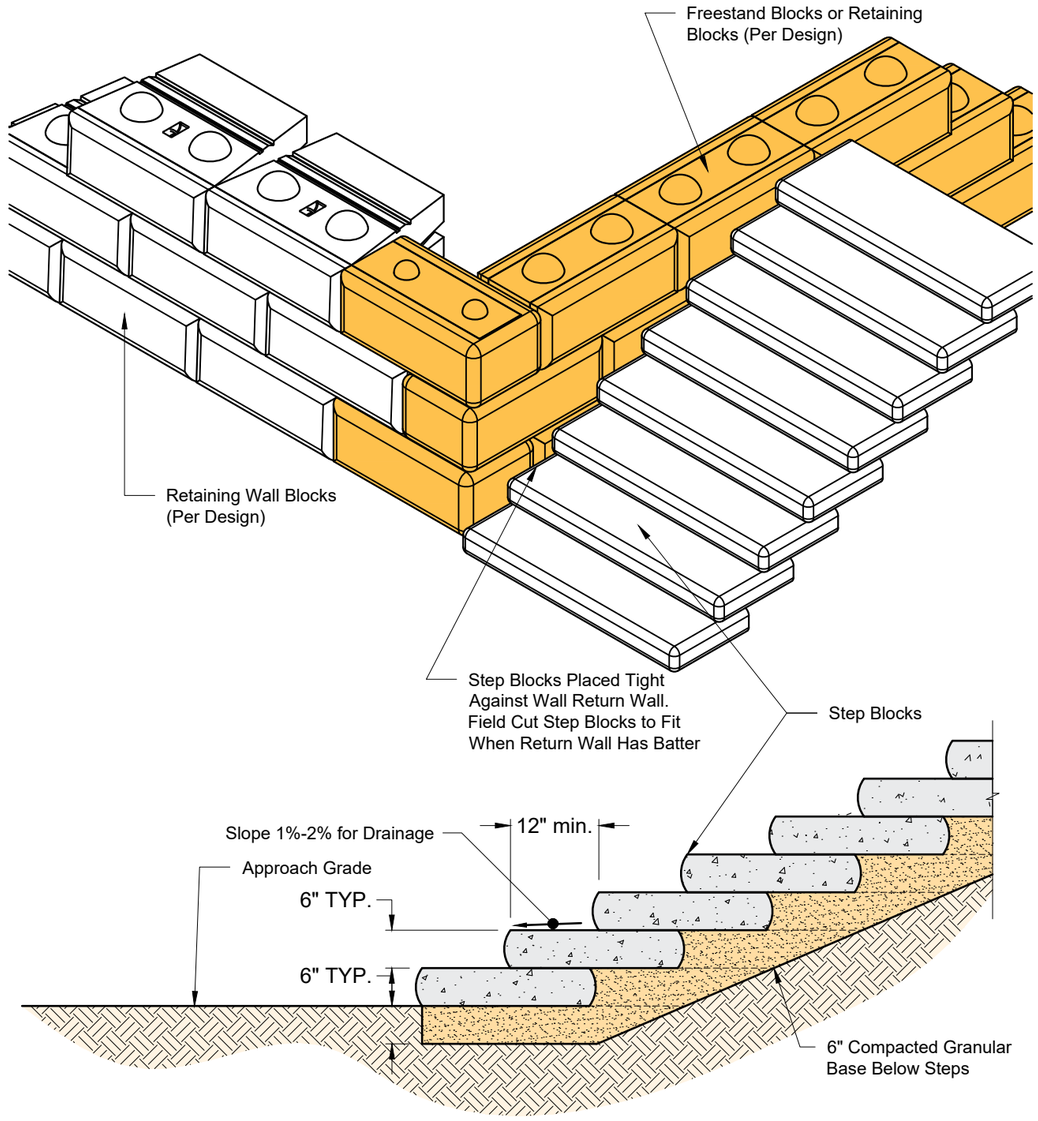
Steps Through Wall



Stair Section

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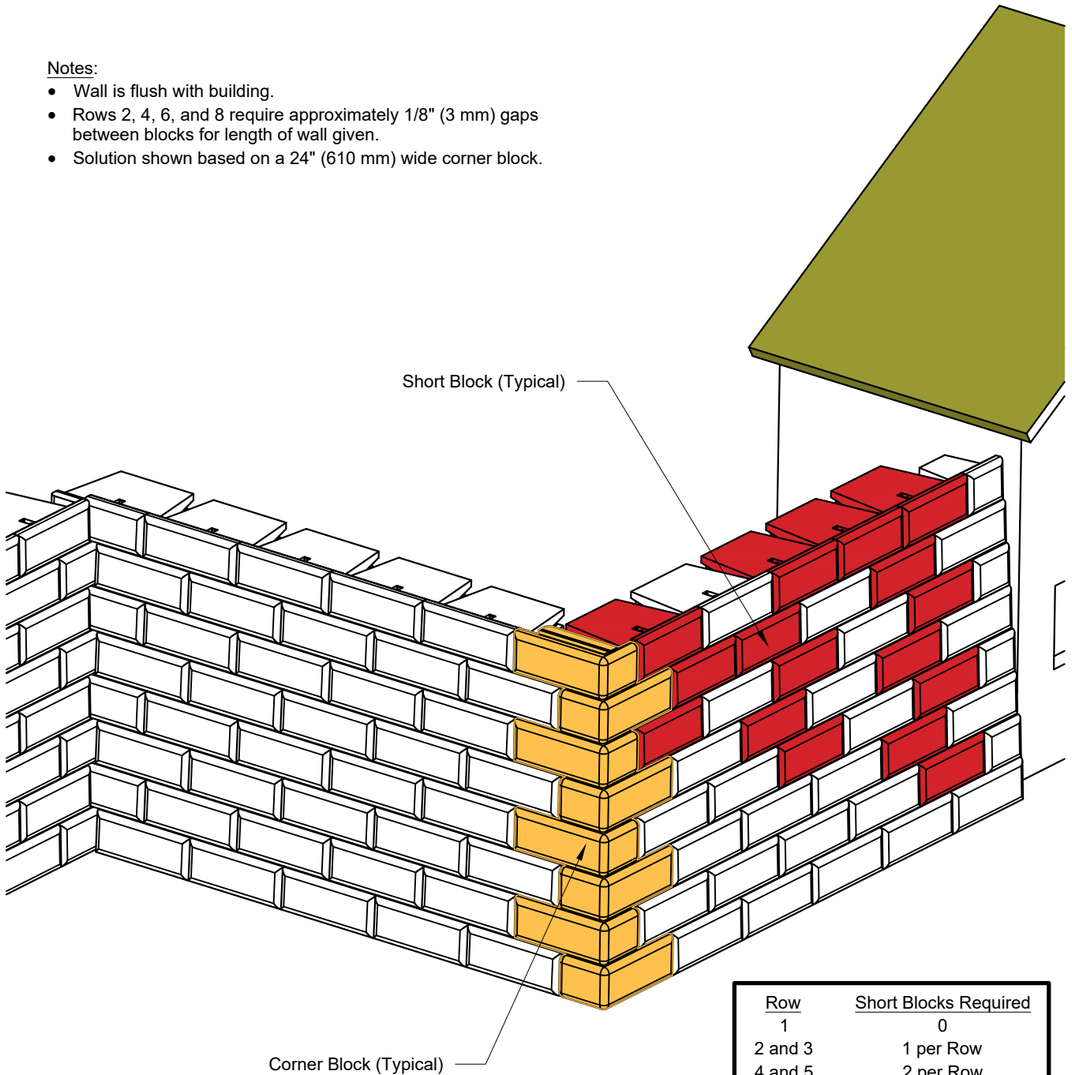
Flush End to 90° Corner

Notes:

- Wall is flush with building.
- Rows 2, 4, 6, and 8 require approximately 1/8" (3 mm) gaps between blocks for length of wall given.
- Solution shown based on a 24" (610 mm) wide corner block.



Row	Short Blocks Required
1	0
2 and 3	1 per Row
4 and 5	2 per Row
6 and 7	3 per Row
8	4 per Row

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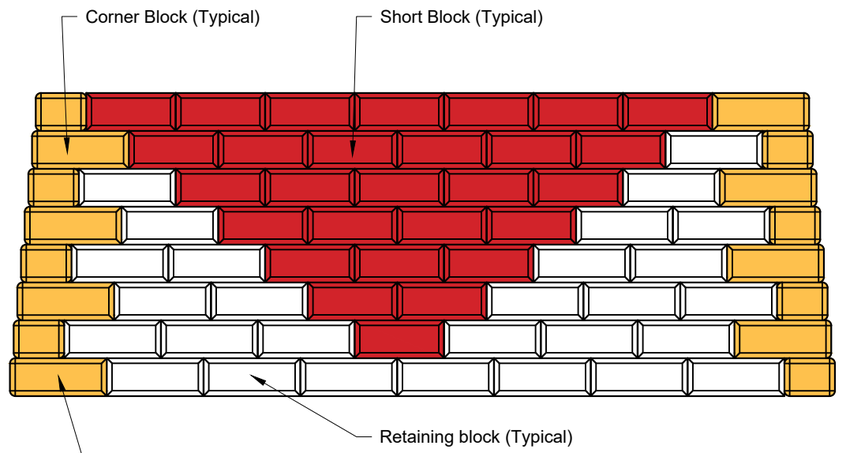
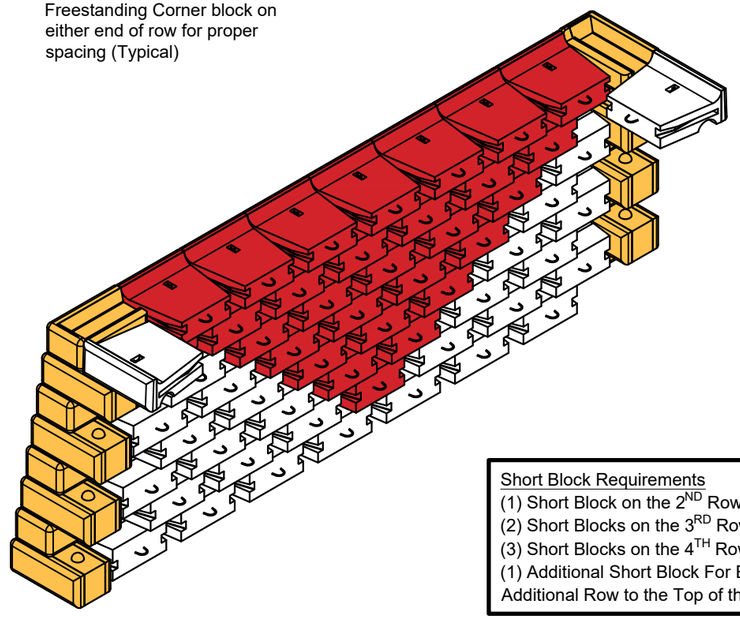
Double 90° Outside Corner - Short Block Solution





Short Block Requirements
(1) Short Block on the 2ND Row
(2) Short Blocks on the 3RD Row
(3) Short Blocks on the 4TH Row
(1) Additional Short Block For Every Additional Row to the Top of the Wall

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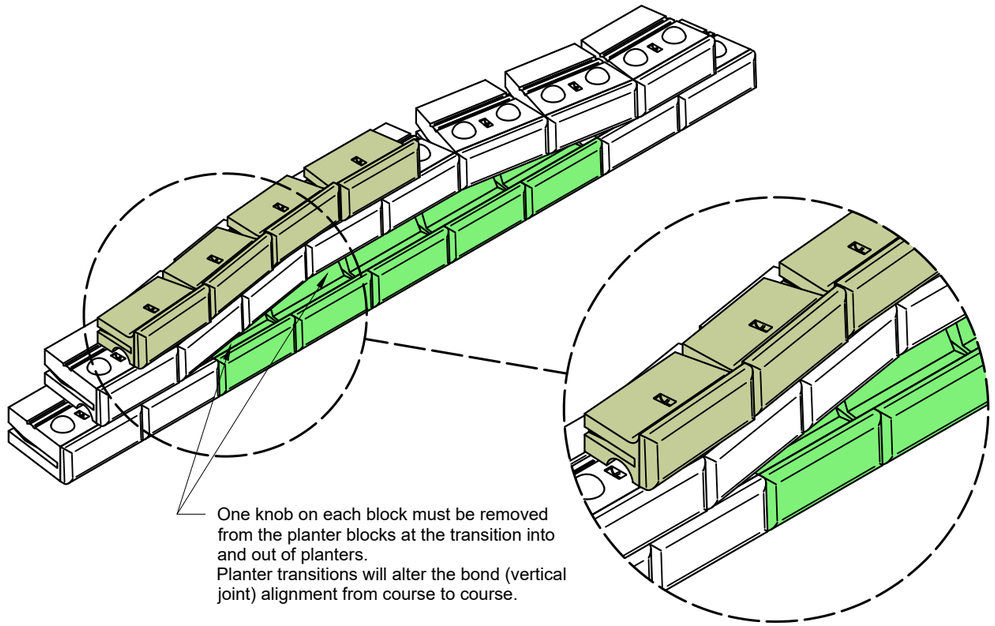
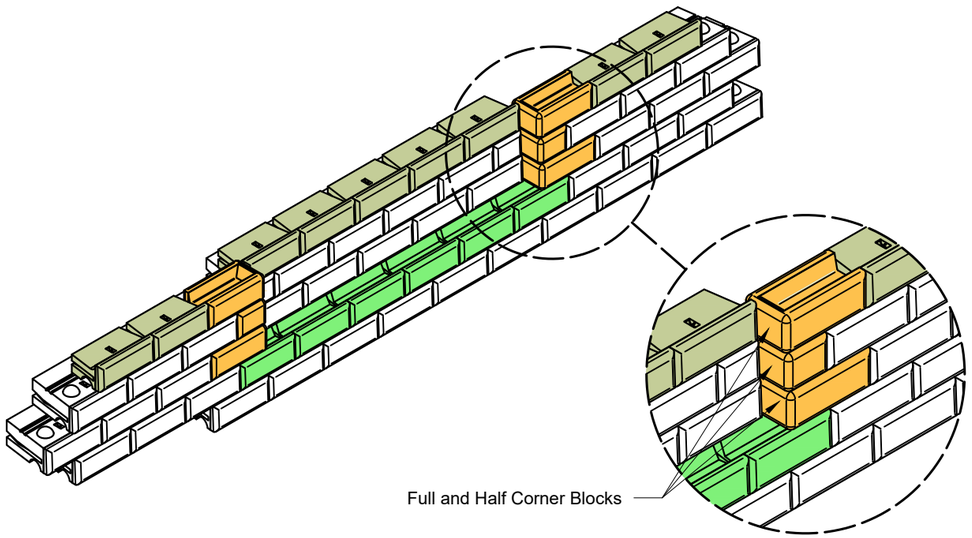
Transitions Into Planters





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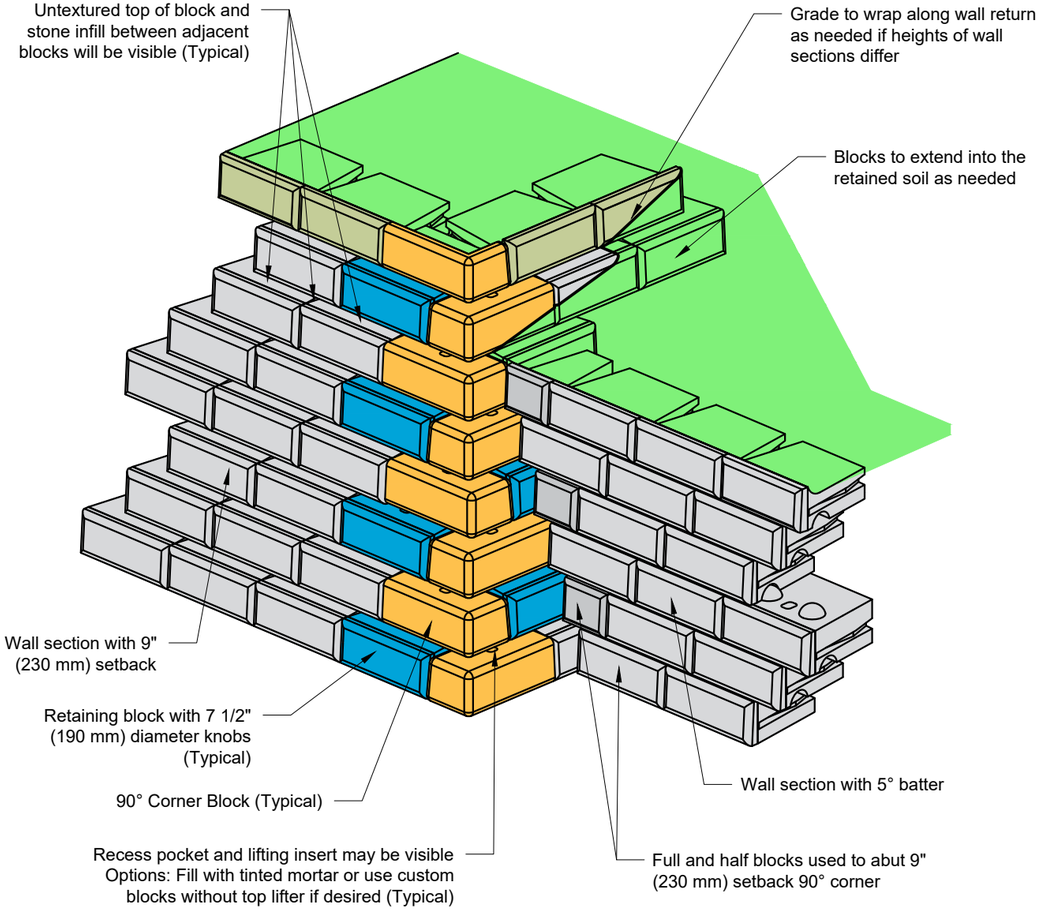
Transition From 5° Batter to 9" (230 mm) Setback



Preferred option is to start construction at transition and work away in both directions.
If construction cannot start at transition, blocks must be field cut as needed to fit.

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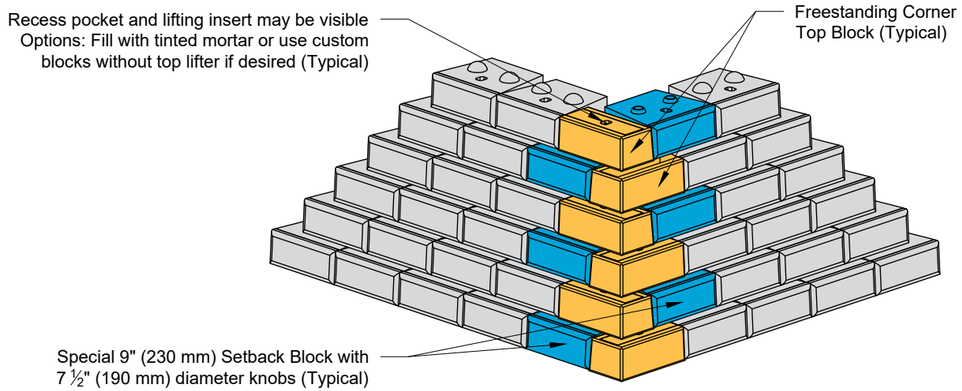
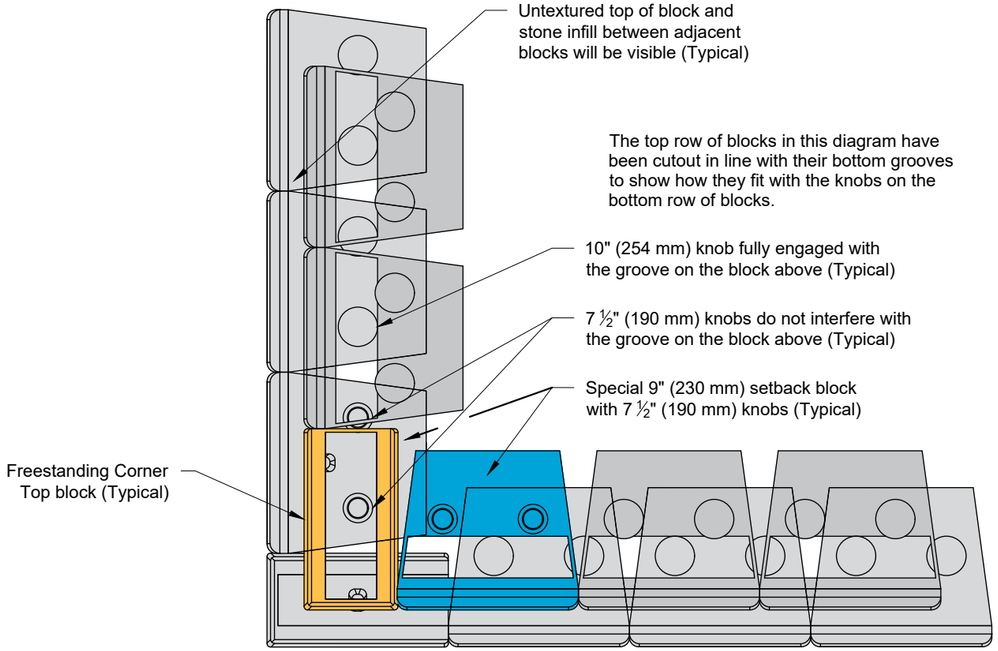
90° Outside Corner for 9" (230 mm) Setback Walls



Multiple Row Installation



Top View of Bottom Two Rows

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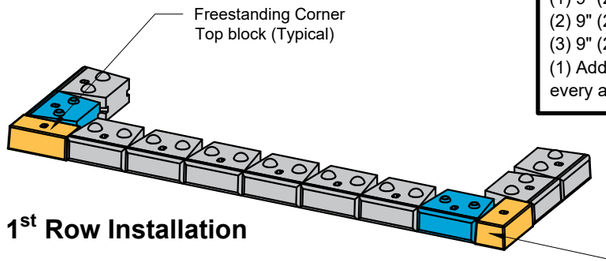
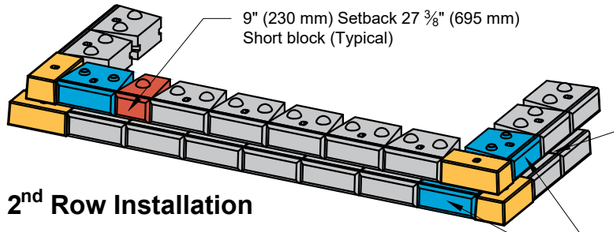
Double 90° Outside Corner for 9" (230 mm) Setback Walls

Short Block Requirements
(1) 9" (230 mm) Setback Short block on the 2nd row
(2) 9" (230 mm) Setback Short block on the 3rd row
(3) 9" (230 mm) Setback Short block on the 4nd row
(1) Additional 9" (230 mm) Setback Short block for every additional row to the top of the wall



1st Row Installation

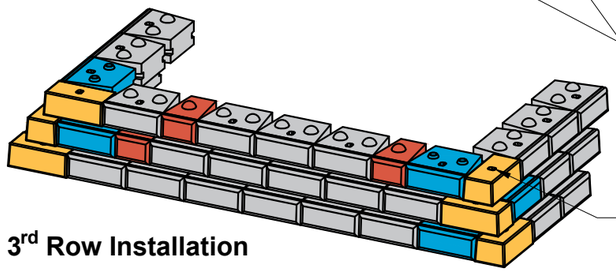
Alternate long and short face of Freestanding Corner Top block on either end of row for proper spacing (Typical)



2nd Row Installation

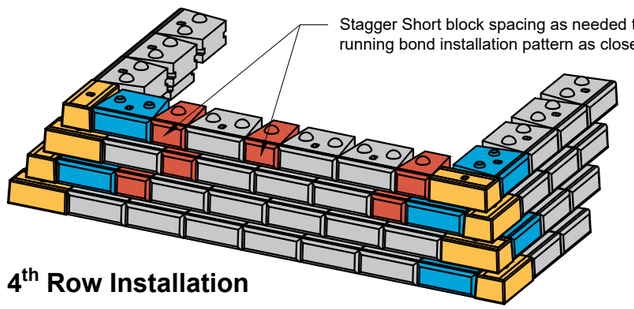
Untextured top of block and stone infill between adjacent blocks will be visible (Typical)

9" (230 mm) Setback block with 7 ½" (190 mm) diameter knobs (Typical)



3rd Row Installation

Recess pocket and lifting insert may be visible
Options: Fill with tinted mortar or use custom blocks without top lifter if desired (Typical)



4th Row Installation

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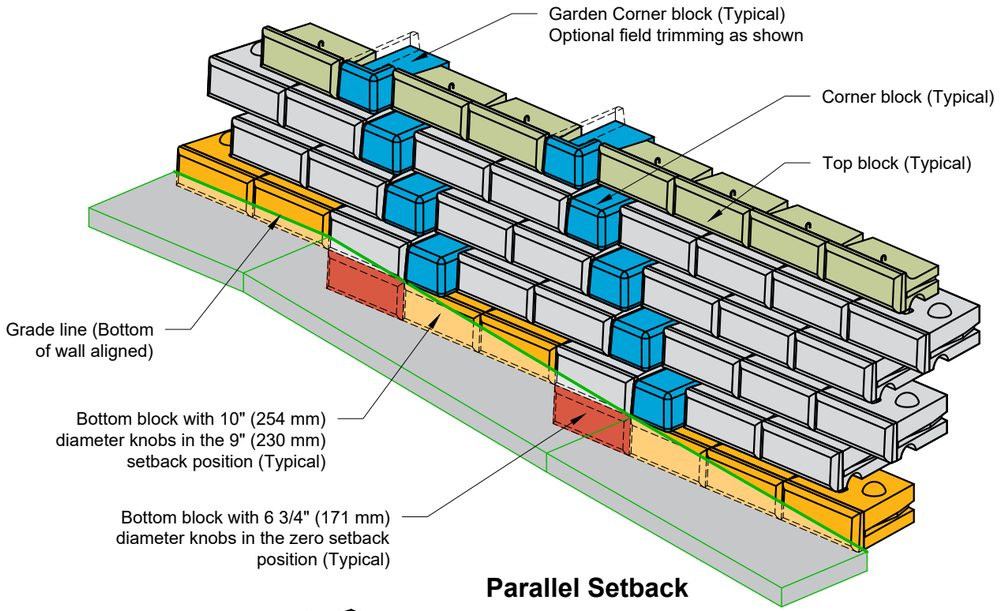
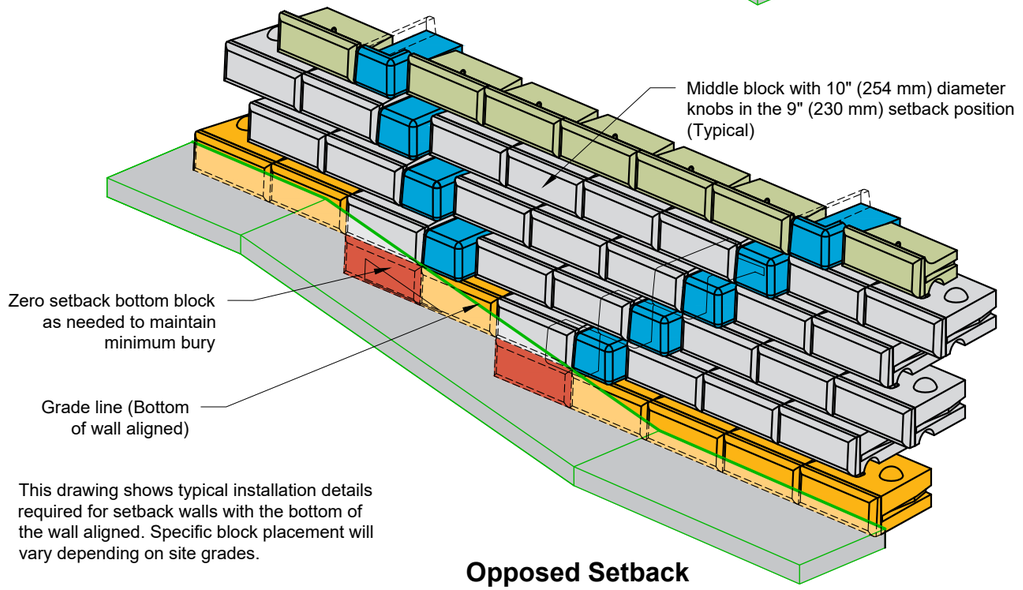
Stepped 9" (230 mm) Setback Wall with Aligned Base



Parallel Setback



This drawing shows typical installation details required for setback walls with the bottom of the wall aligned. Specific block placement will vary depending on site grades.

Opposed Setback

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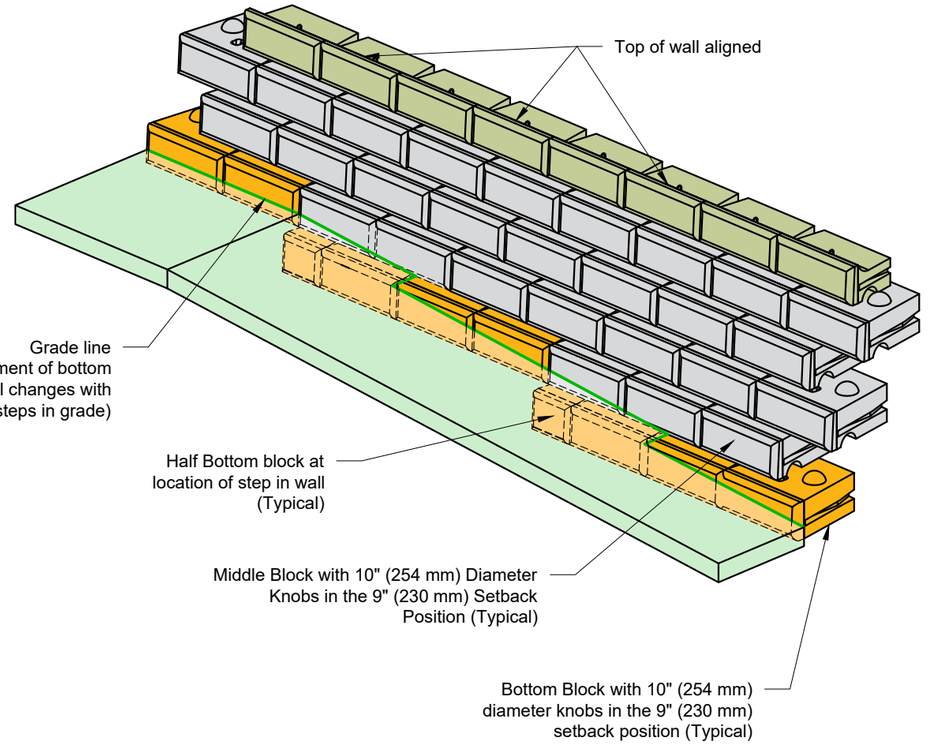
Stepped 9" (230 mm) Setback Wall with Aligned Top



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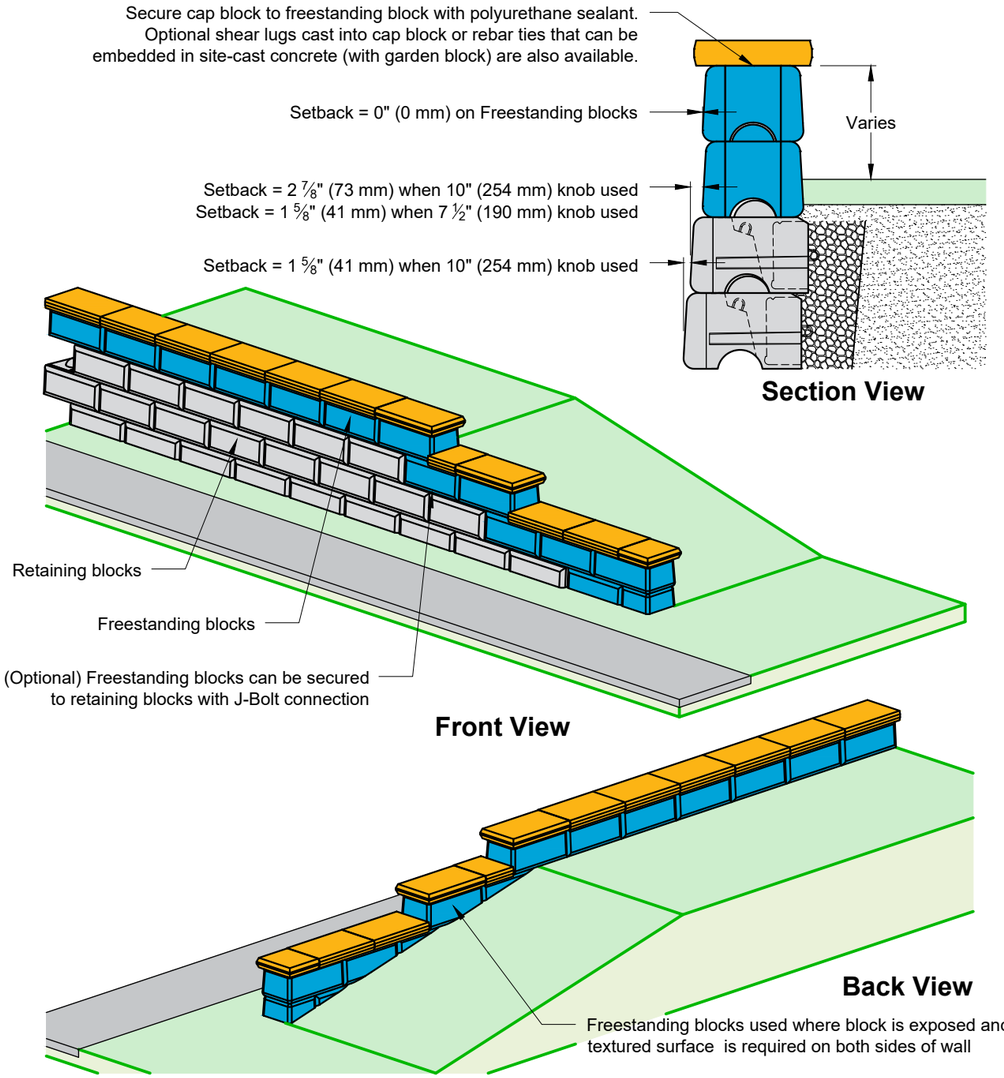
Freestanding and Cap Block Coping



One-component, highly flexible, non-priming, gun grade, high performance elastomeric polyurethane sealant shall have movement of plus or minus 25% per ASTM C719, tensile strength greater than 200 psi (1.4 MPa) per ASTM D412, and adhesion to peel on concrete greater than 20 PLI per ASTM C794. Apply sealant in one and one half-inch (1.5") (38 mm) diameter round "hersey kiss" shaped dollops located in two rows at the top of the Freestanding blocks at 8" (203 mm) on center.

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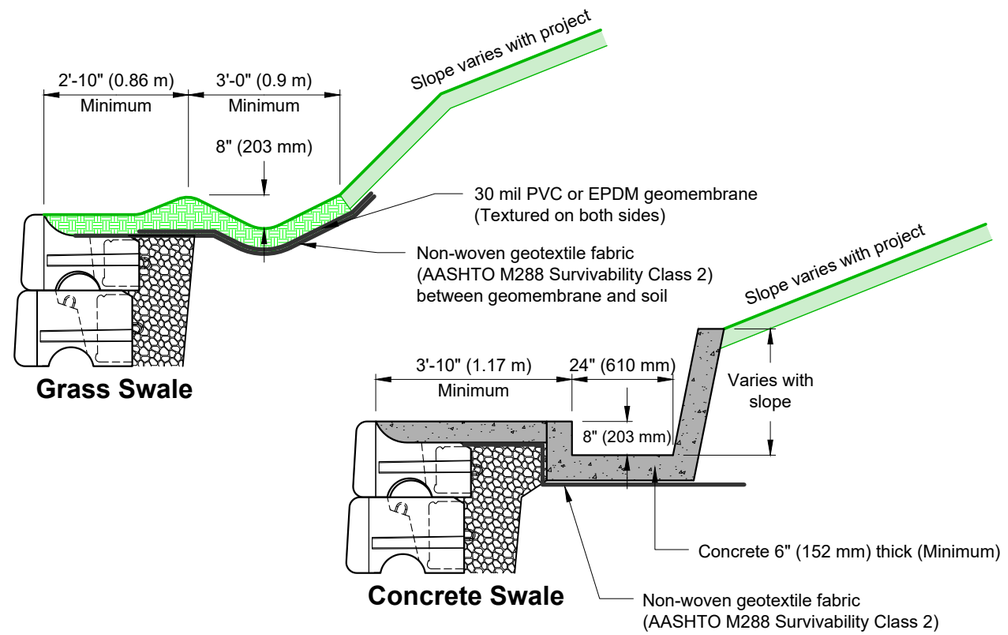
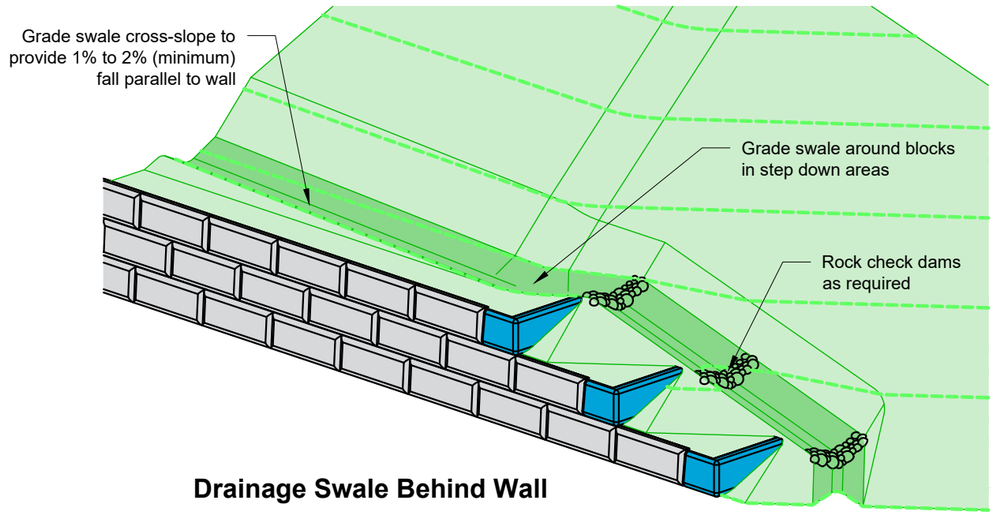
Drainage Swale Options





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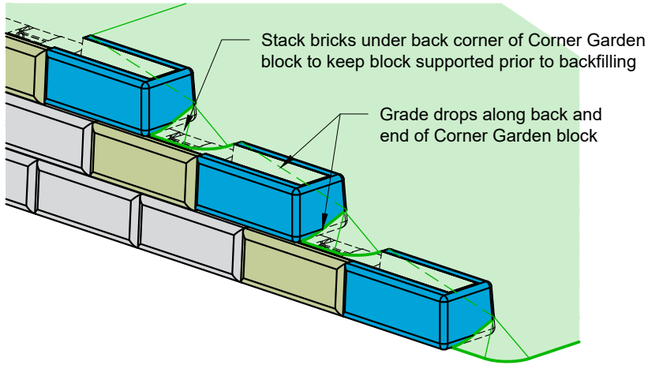
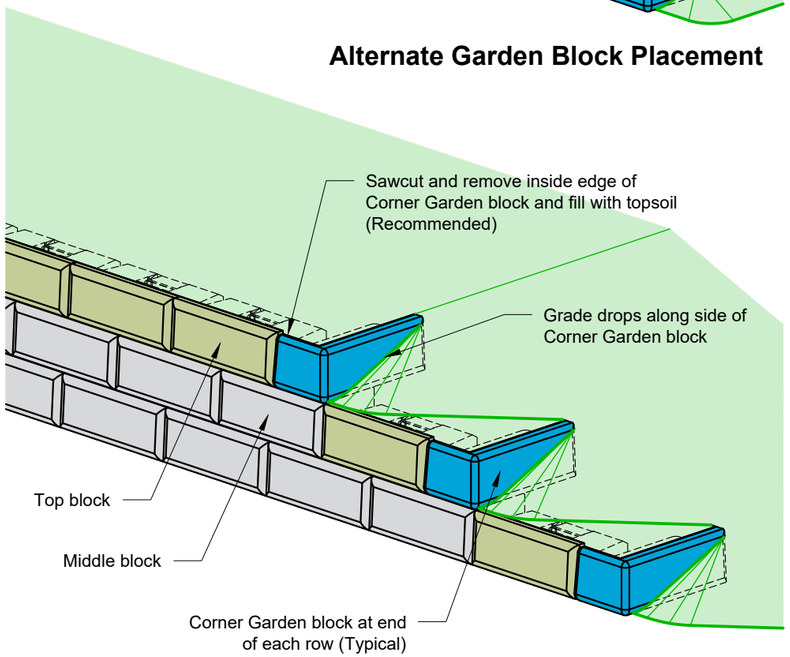
Top Block Coping Option



Alternate Garden Block Placement



Note: Corner Garden Blocks are shown, Half Corner Garden Blocks are optional as grading permits.

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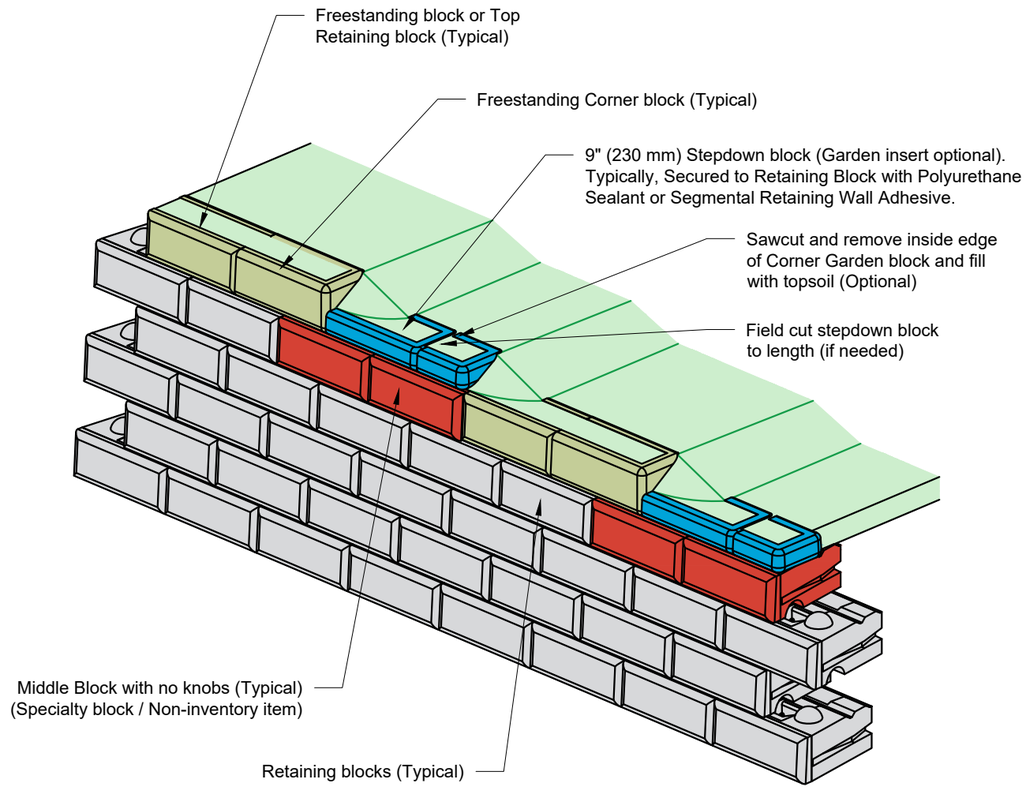
Grade Change on Top of Wall Using 9" (230 mm) Stepdown Blocks



Sealant Adhesive: One-component, highly flexible, non-priming, gun grade, high performance elastomeric polyurethane sealant shall have movement of plus or minus 25% per ASTM C719, tensile strength greater than 200 psi (1.4 MPa) per ASTM D412, and adhesion to peel on concrete greater than 20 PLI per ASTM C794. Apply sealant in one and one half-inch (1.5") (38 mm) diameter round “hersey kiss” shaped dollops located in two rows at 8” (203 mm) on center, immediately below the 9" (230mm) Stepdown Block.

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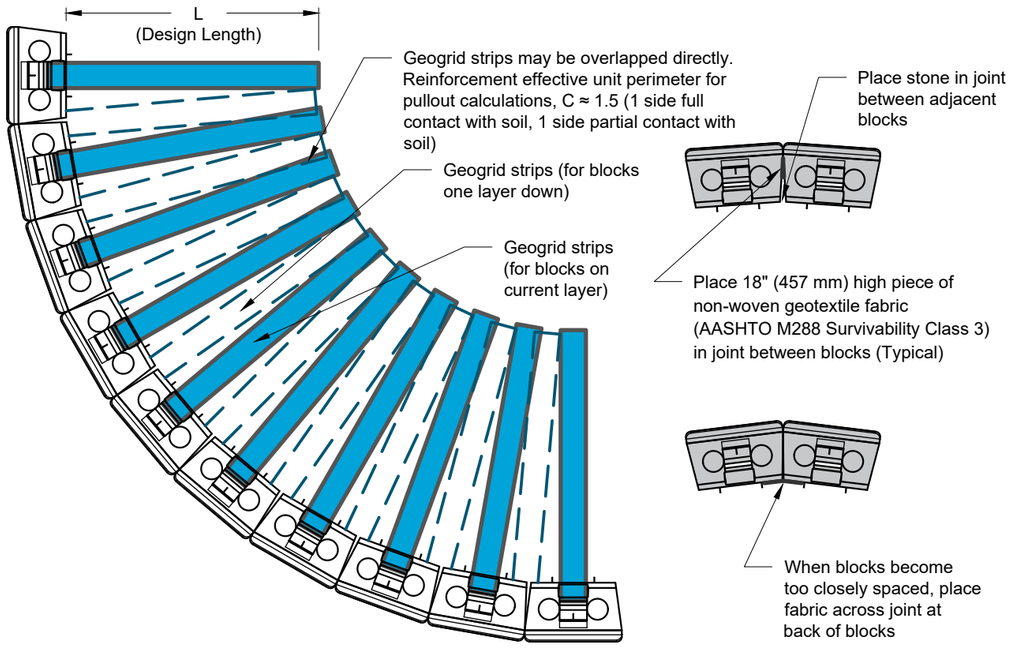
Geogrid Layout for Convex Curves and Radial Corners

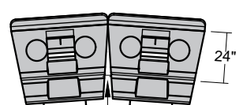


Minimum radius for bottom row

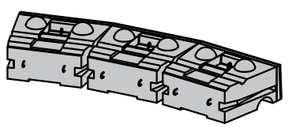
Number of courses	Height of wall	Radius from face of block	Distance between blocks*
1	1'-6" (0.46 m)	14'-6" (4.42 m)	0.13" (3 mm)
2	3'-0" (0.91 m)	14'-8" (4.47 m)	0.21" (5 mm)
3	4'-6" (1.37 m)	14'-10" (4.52 m)	0.28" (7 mm)
4	6'-0" (1.83 m)	15'-0" (4.57 m)	0.36" (9 mm)
5	7'-6" (2.29 m)	15'-2" (4.62 m)	0.43" (11 mm)
6	9'-0" (2.74 m)	15'-4" (4.67 m)	0.50" (13 mm)
7	10'-6" (3.20 m)	15'-6" (4.72 m)	0.57" (15 mm)
8	12'-0" (3.66 m)	15'-8" (4.78 m)	0.63" (16 mm)
9	13'-6" (4.11 m)	15'-10" (4.83 m)	0.70" (18 mm)
10	15'-0" (4.57 m)	16'-0" (4.88 m)	0.76" (19 mm)
11	16'-6" (5.03 m)	16'-2" (4.93 m)	0.83" (21 mm)
12	18'-0" (5.49 m)	16'-4" (4.98 m)	0.88" (22 mm)
13	19'-6" (5.94 m)	16'-6" (5.03 m)	0.95" (24 mm)
14	21'-0" (6.40 m)	16'-8" (5.08 m)	1.01" (26 mm)

* Distance between blocks is measured at the back of 28" (710 mm) blocks and 24" (610 mm) behind the form parting line (back edge of face texture) for 41" (1030 mm) blocks. This distance is intended to be a guide only. Minimum radius is controlling.

14'-6" (4.42 m) is the minimum radius for Redi-Rock blocks. It occurs when all the blocks are placed tight together. A larger radius is required on the bottom row of a Redi-Rock wall to account for the batter between courses of blocks and still provide enough space to construct the top row of blocks.



Top View



Back View

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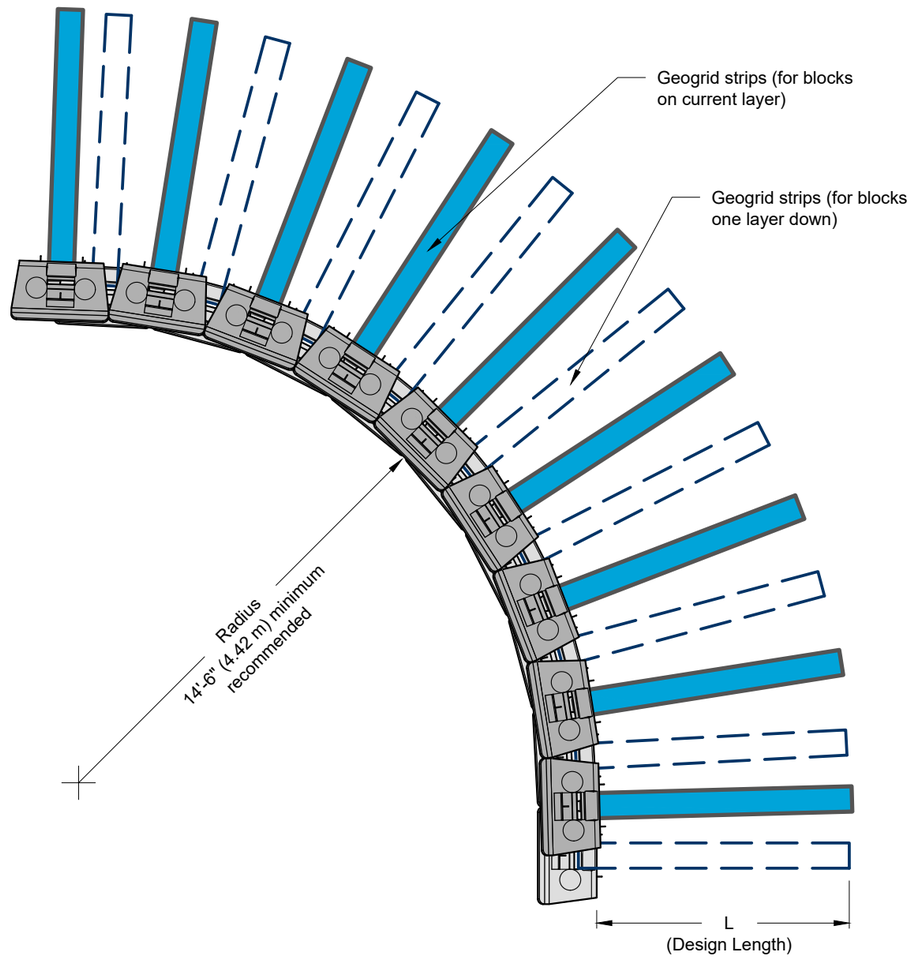
Geogrid Layout for Concave Curves and Radial Corners



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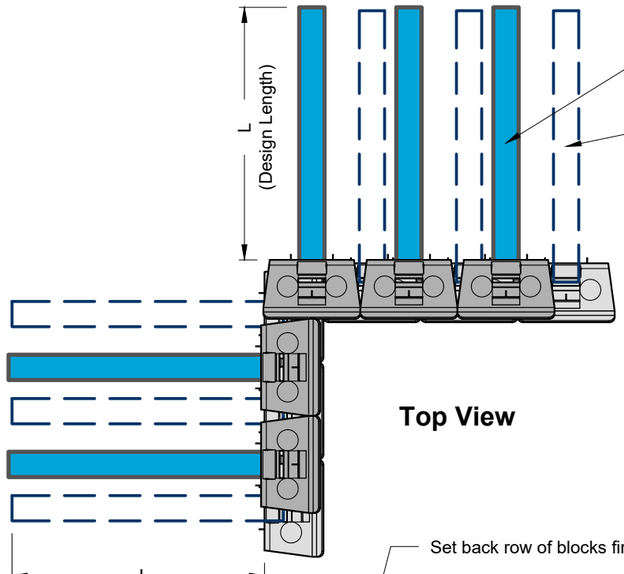
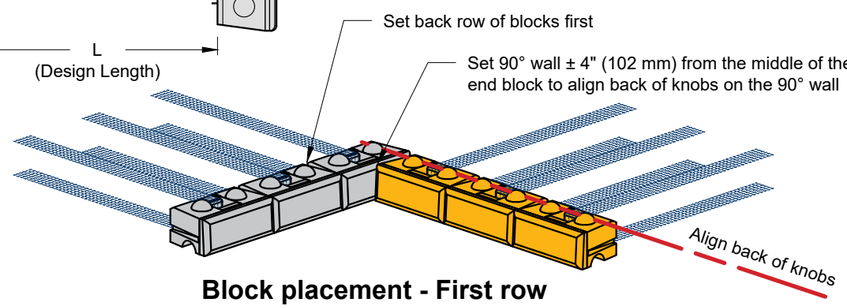
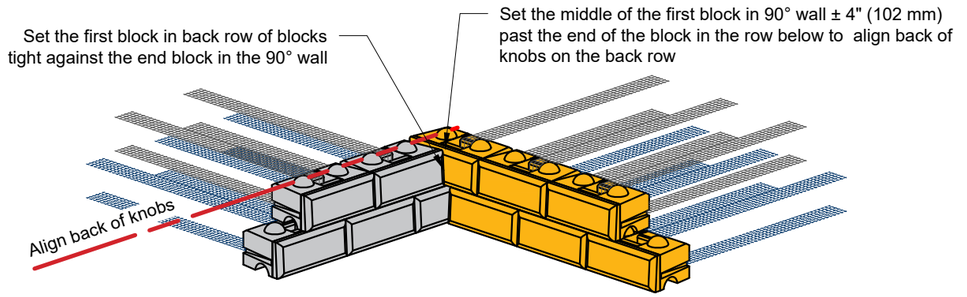
Geogrid Layout for 90° Inside Corner



Top View



Block placement - First row



Block placement - Second row

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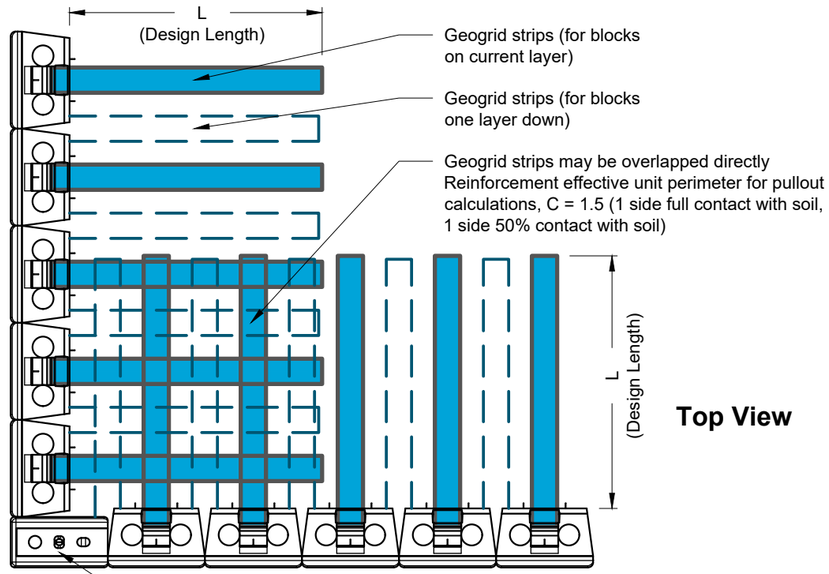
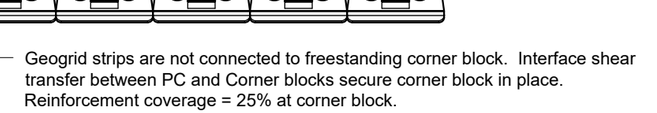
Geogrid Layout for 90° Outside Corner

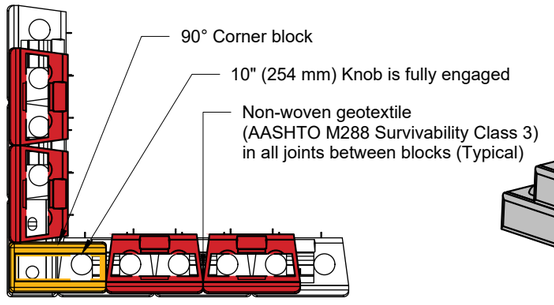


Top View

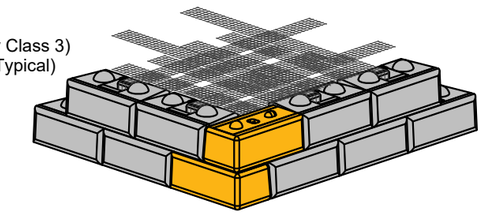


Block Layout for 90° Outside Corner

The top row of blocks are shown in red. They have been cutout in line with their bottom grooves to show how they fit with the knobs on the bottom row of block. The geogrid strips are not shown for clarity.



Top View of Corner



3D View of Corner

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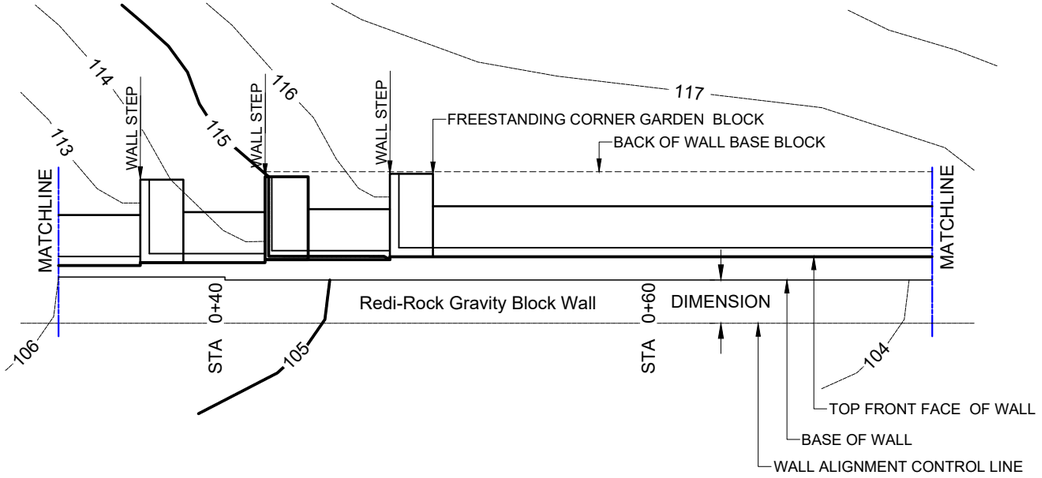
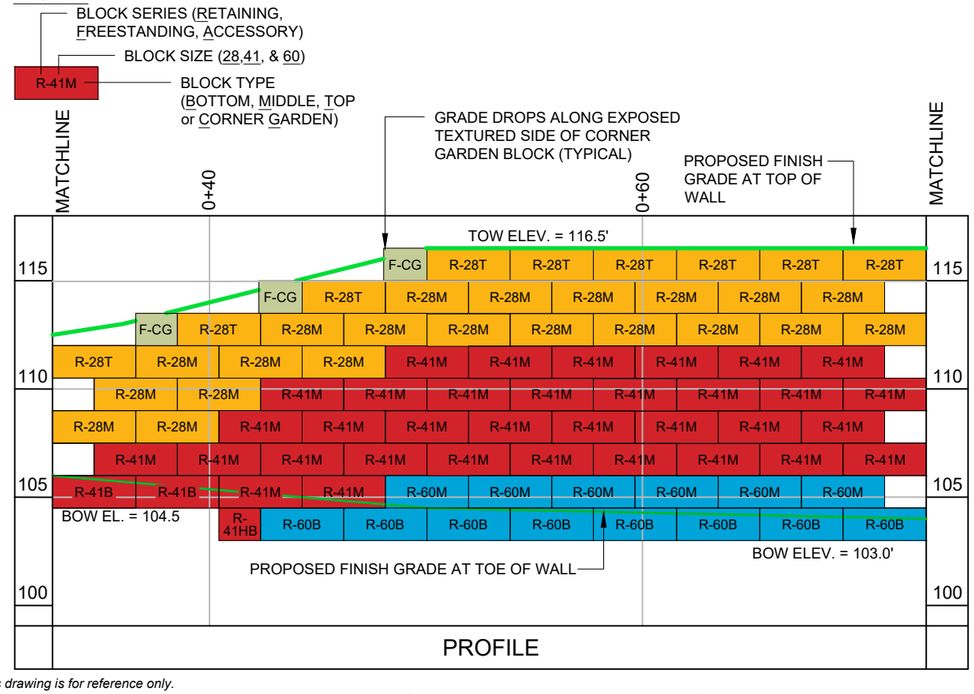
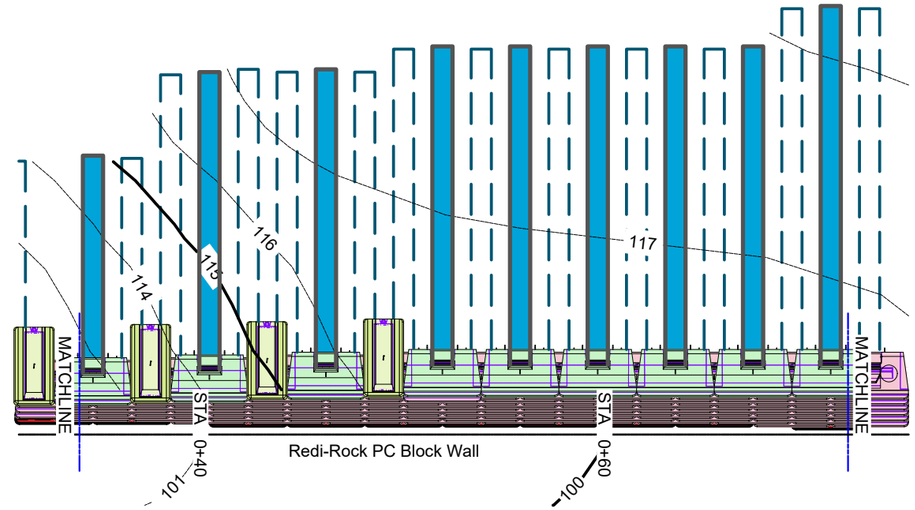
Sample Plan and Profile Gravity Wall

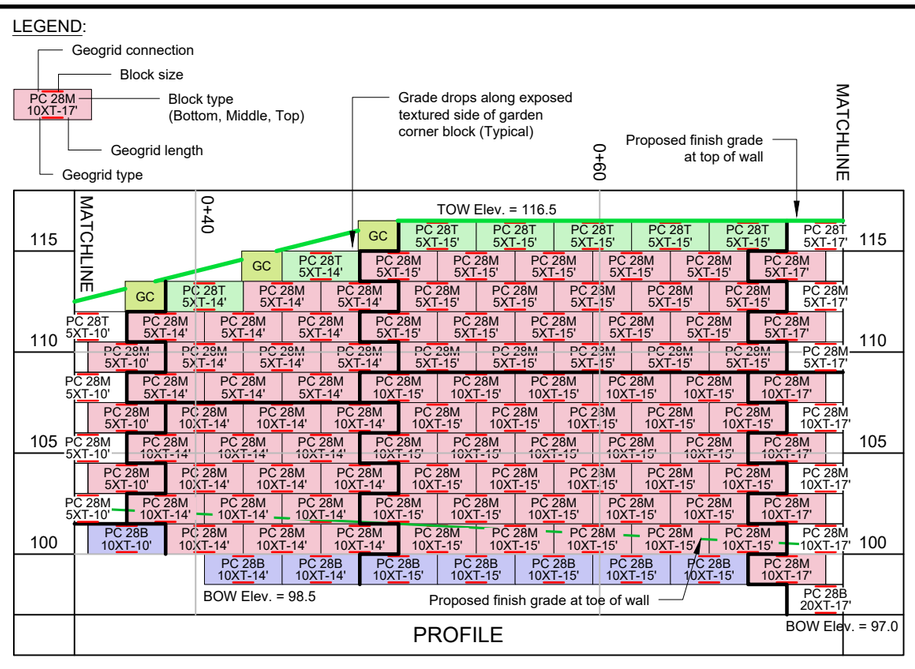




- *This drawing is for reference only.*
- ***Final designs for construction must be prepared by a registered Professional Engineer** using the actual conditions of the proposed site.*
- ***Final wall design must address both internal and external drainage and shall be evaluated by the Professional Engineer who is responsible for the wall design.***

Sample Plan and Profile Positive Connection MSE Wall





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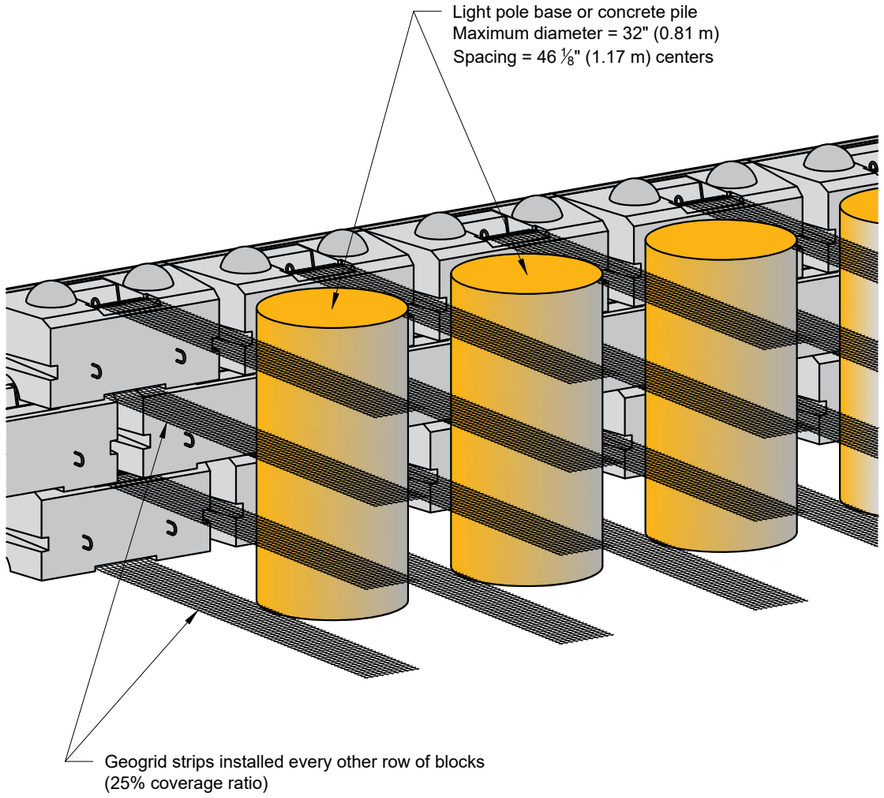
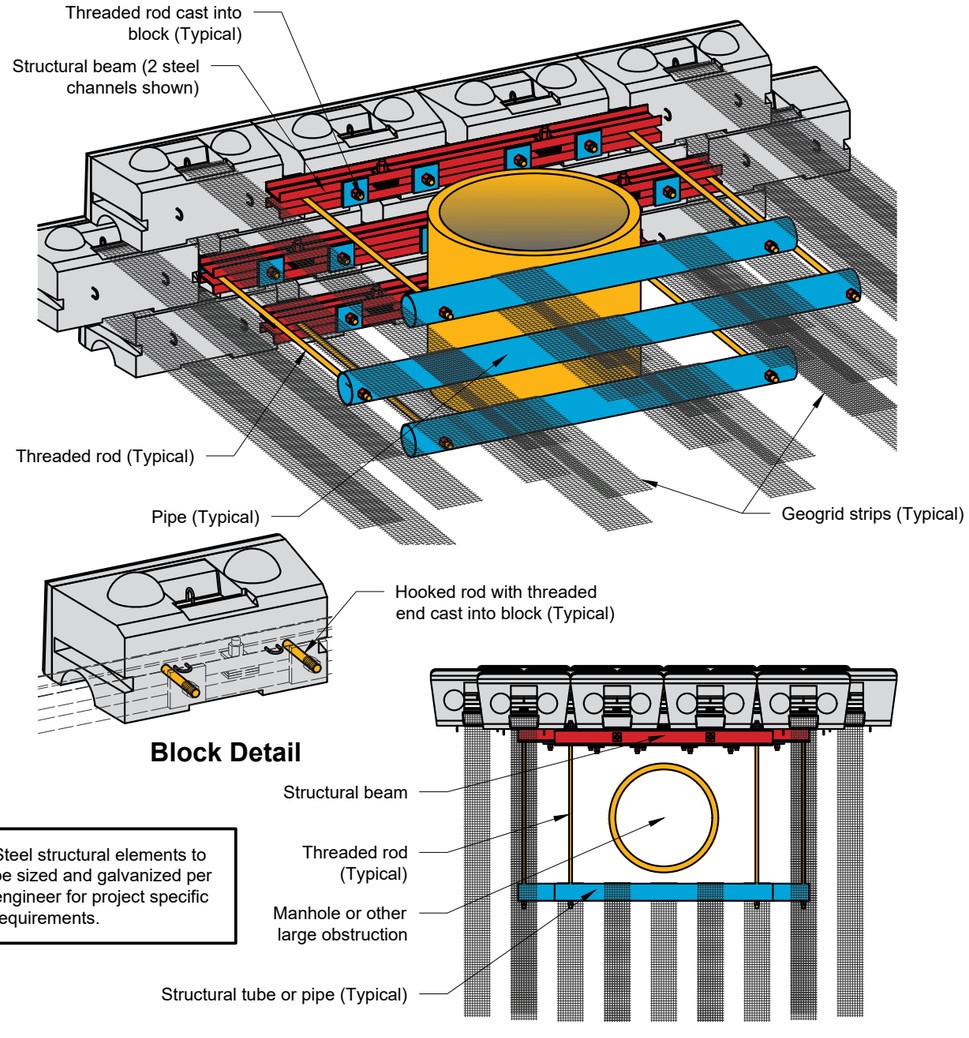
Light Pole Base or Concrete Pile in Reinforced Soil Zone



3D View from Back

Manhole or Large Obstruction in Reinforced Soil Zone



Top View

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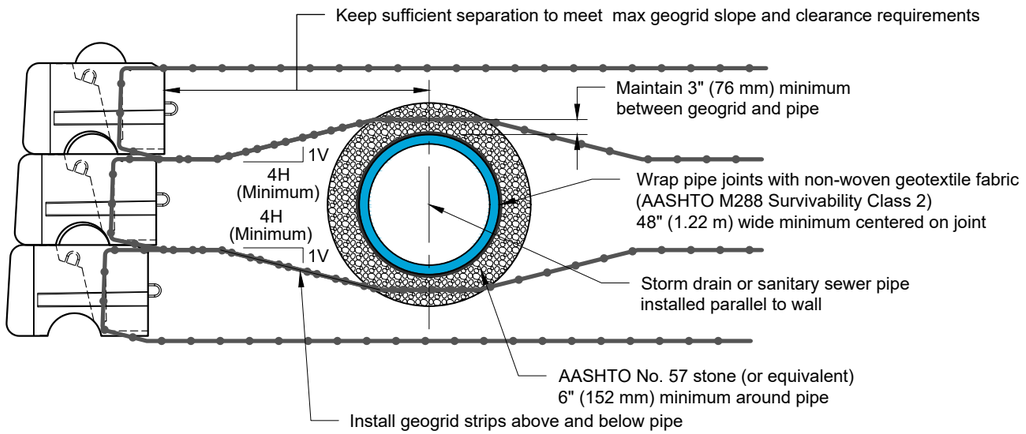
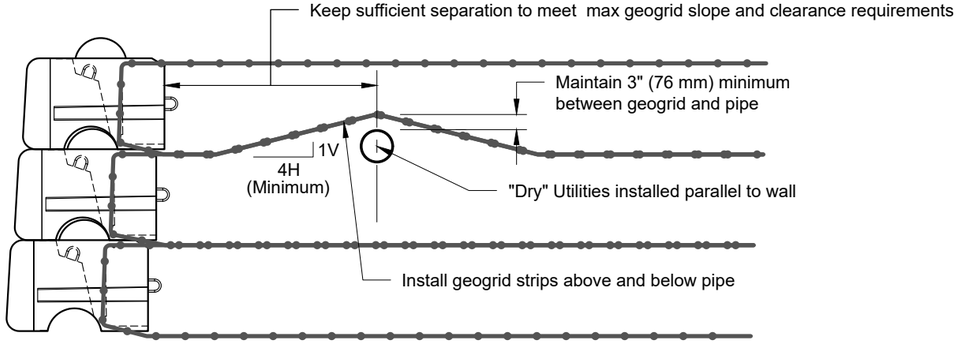
Utilities in the Reinforced Soil Zone



Storm or Sanitary Sewer Pipe



"Dry" Utilities (Electric, Gas, Telecommunications)

Redi-Rock International follows the recommendations of FHWA GEC 011 and discourages placing pipes or other horizontal obstructions behind the wall in the reinforced soil zone. Placing pipes in this zone could lead to maintenance problems and potential wall failure.

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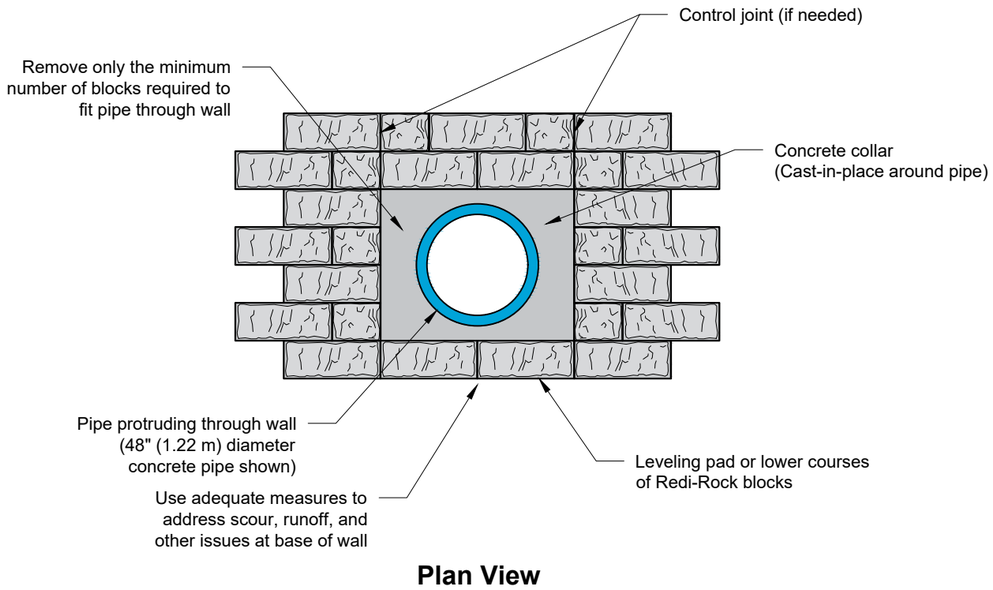
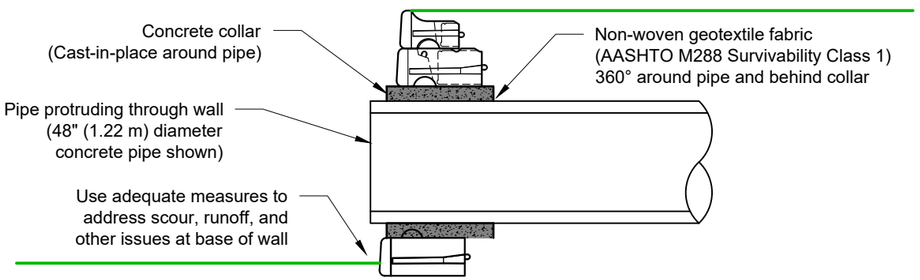
Pipes Installed Through Wall - Perpendicular



Plan View



Section View

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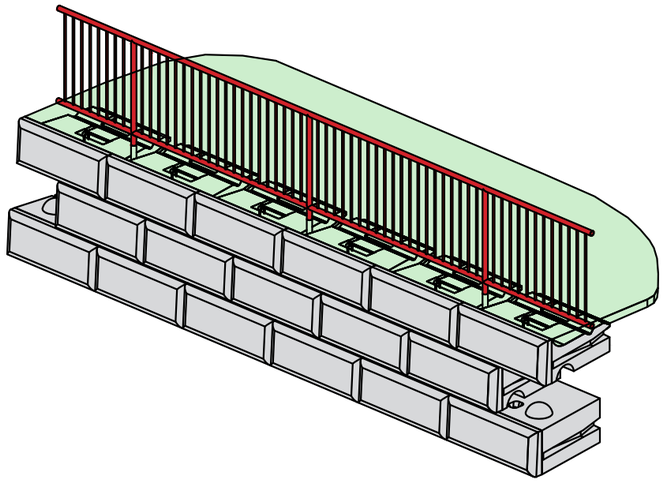
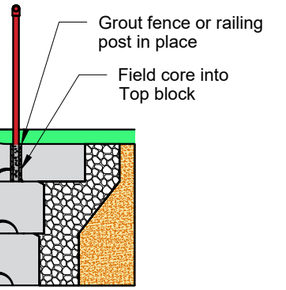
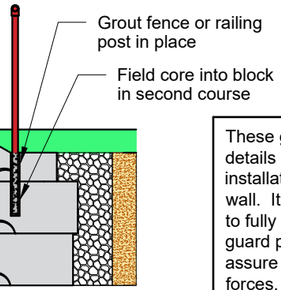
Common Fence or Pedestrian Guard Connections



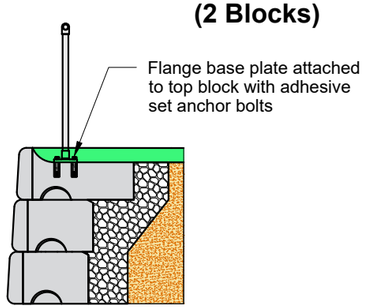


Grouted Connection (1 Block)

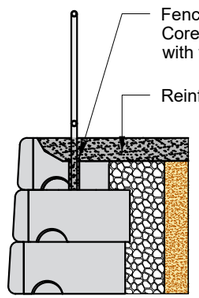


Grouted Connection (2 Blocks)

These generic pedestrian guard and fence details show a few potential options for their installation on the top of a Redi-Rock retaining wall. It is the design engineer's responsibility to fully design and detail the connection of the guard posts to the retaining wall blocks and assure acceptable resistance to the applied forces. Redi-Rock blocks are plain concrete, without steel reinforcement.



Flange Bolted Connection



Moment Slab Connection

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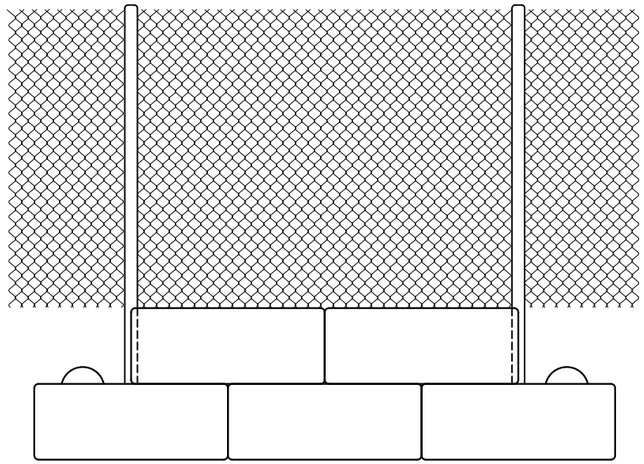
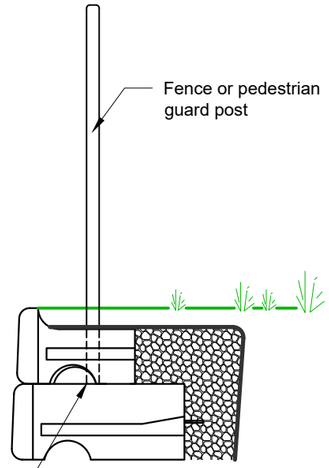
Common Fence or Pedestrian Guard Connection Locations

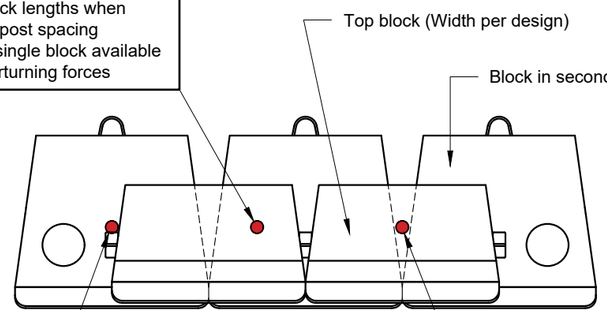


Front View



Side View

Connection Option #1
Anchor into the top block
- Consider block lengths when determining post spacing
- Weight of a single block available to resist overturning forces



Top View

Connection Option #2
Grout posts in v-shaped opening between top blocks
- Spacing in multiples of 46 1/8" (1172 mm)
- Weight of a 2 adjacent blocks available to resist overturning forces

Connection Option #3
Core through top block and grout posts in V-shaped opening between lower blocks
- Spacing in multiples of 46 1/8" (1172 mm)
- Weight of a 2 adjacent blocks on second level down and 3 top row blocks available to resist overturning forces

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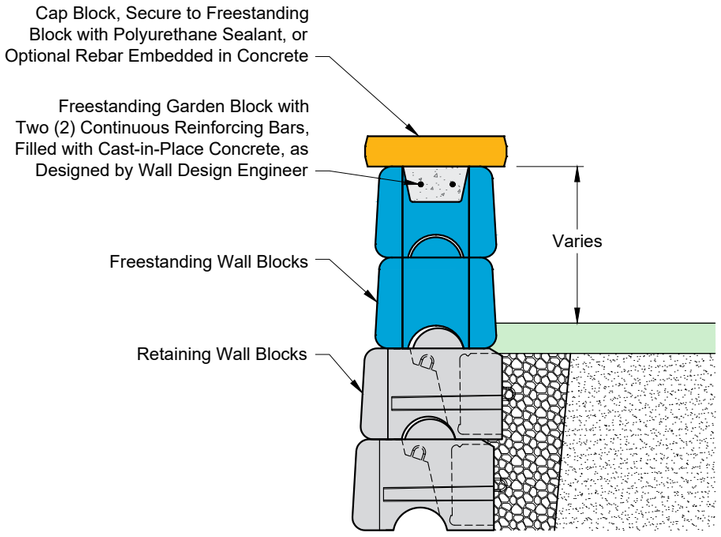
Freestanding Bond Beam at Top of Wall



Section View

Sealant Adhesive: One-component, highly flexible, non-priming, gun grade, high performance elastomeric polyurethane sealant shall have movement of plus or minus 25% per ASTM C719, tensile strength greater than 200 psi (1.4 MPa) per ASTM D412, and adhesion to peel on concrete greater than 20 PLI per ASTM C794. Apply sealant in one and one half-inch (1.5") (38 mm) diameter round "hersey kiss" shaped dollops located in two rows at the top of the Freestanding blocks at 8" (203 mm) on center.

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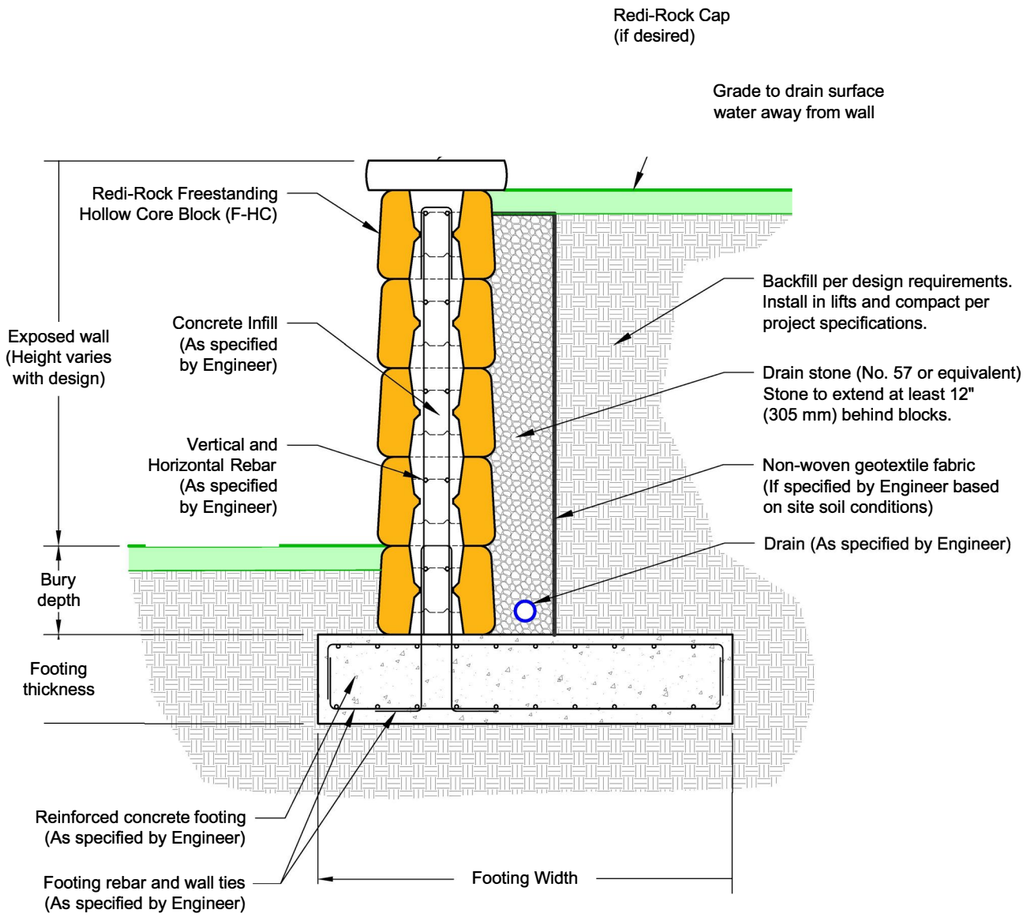
Typical Cantilever Wall Section



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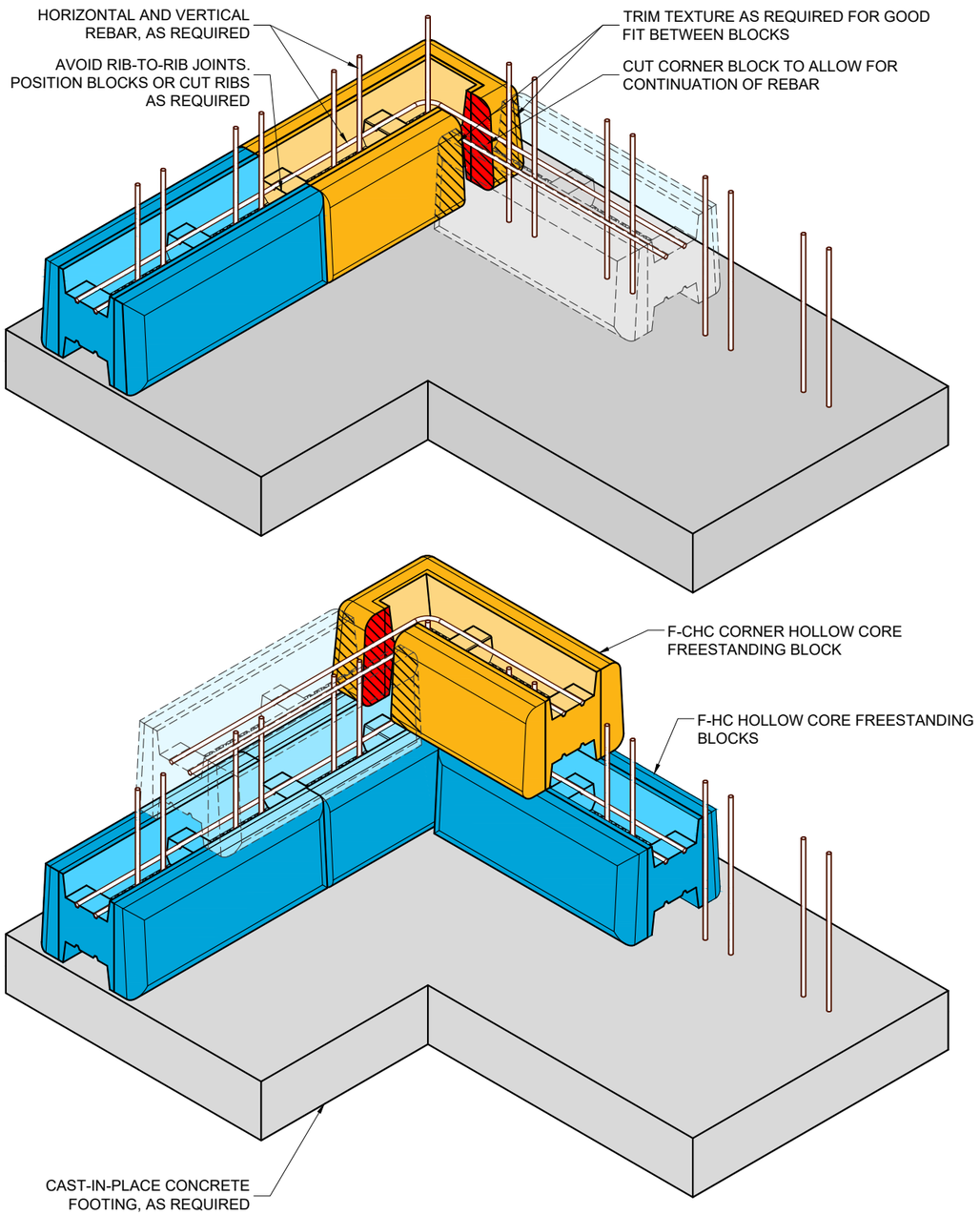
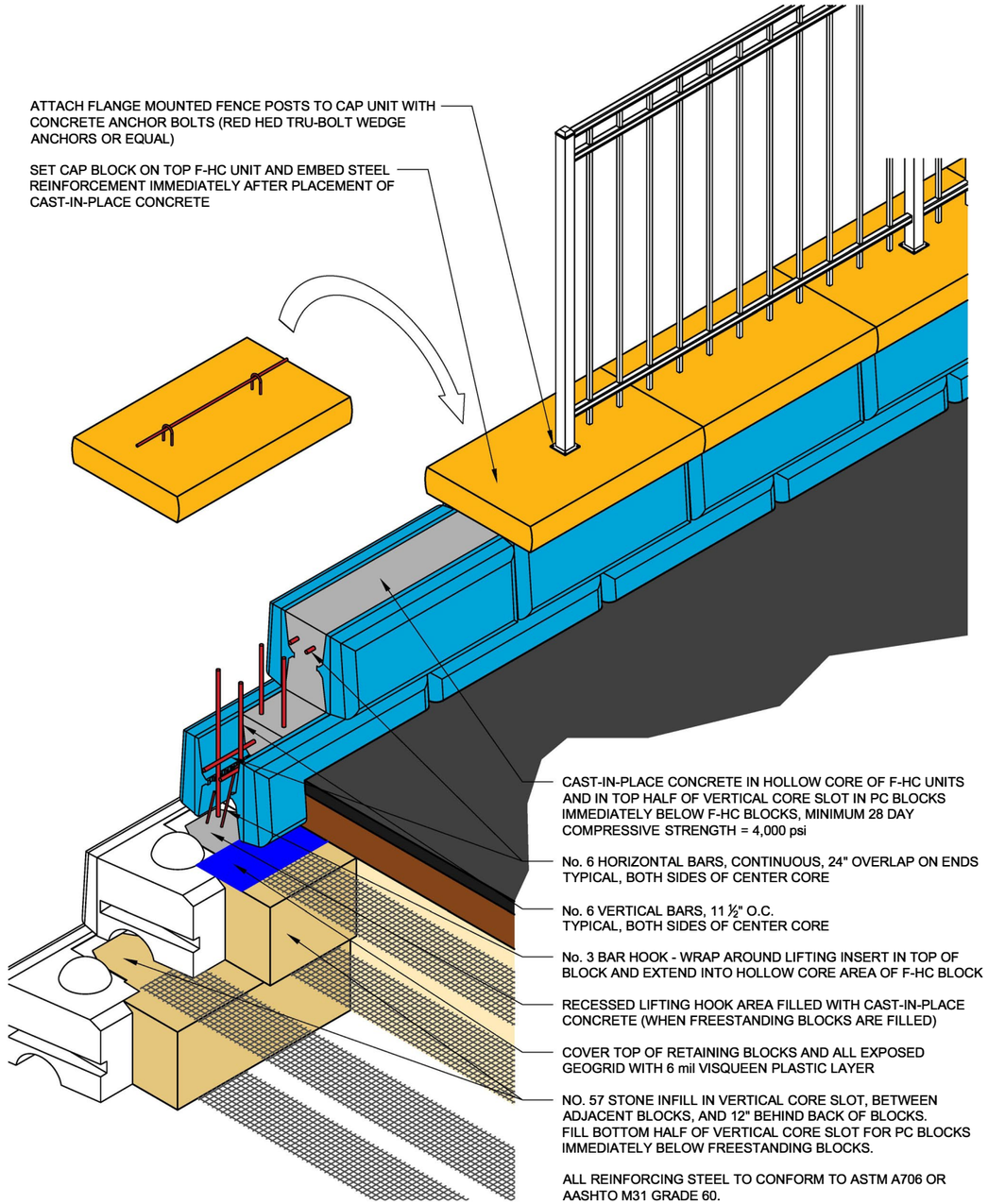
Freestanding Block Continuous Corner Detail



Freestanding Block Coping with Fence Attachment



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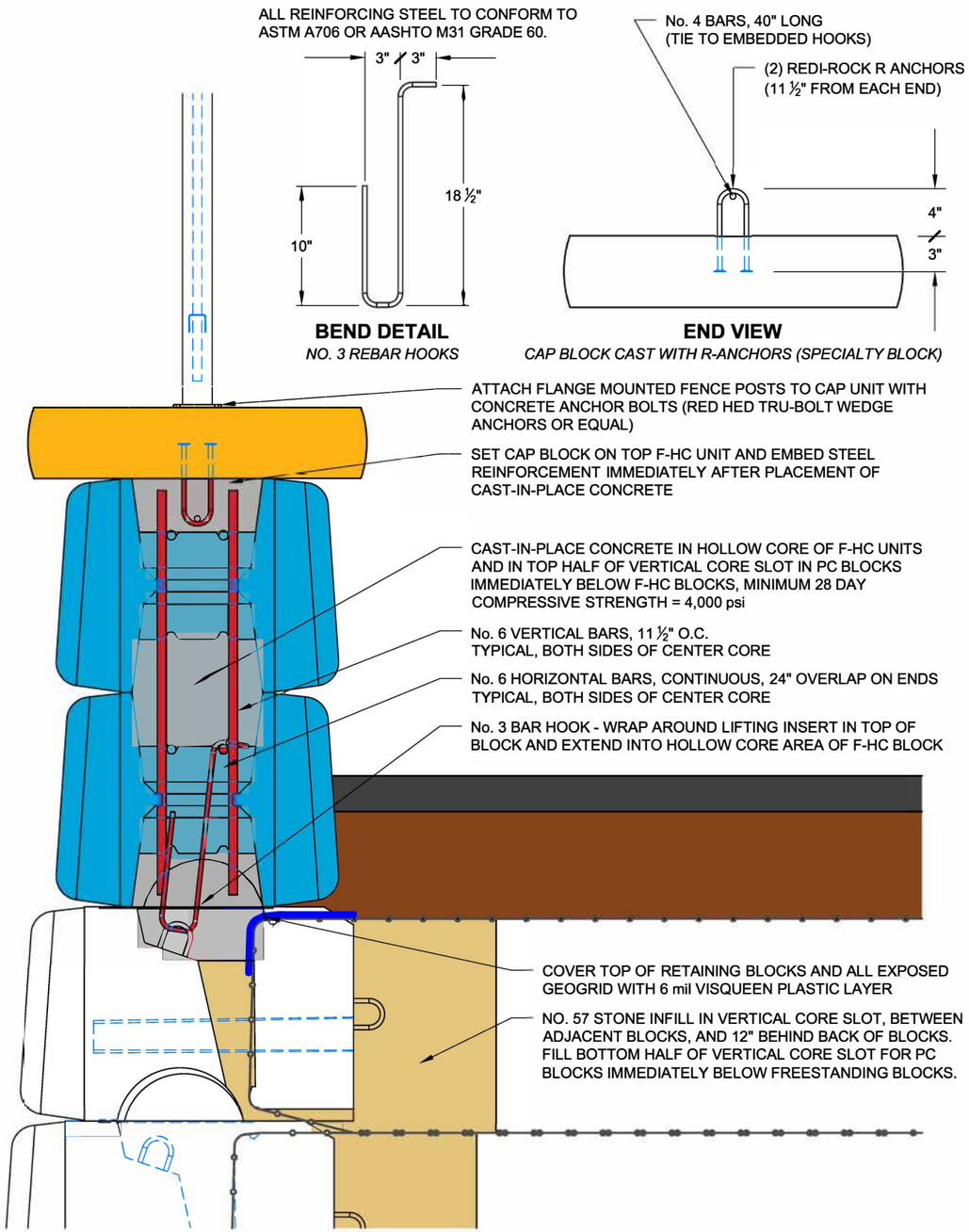
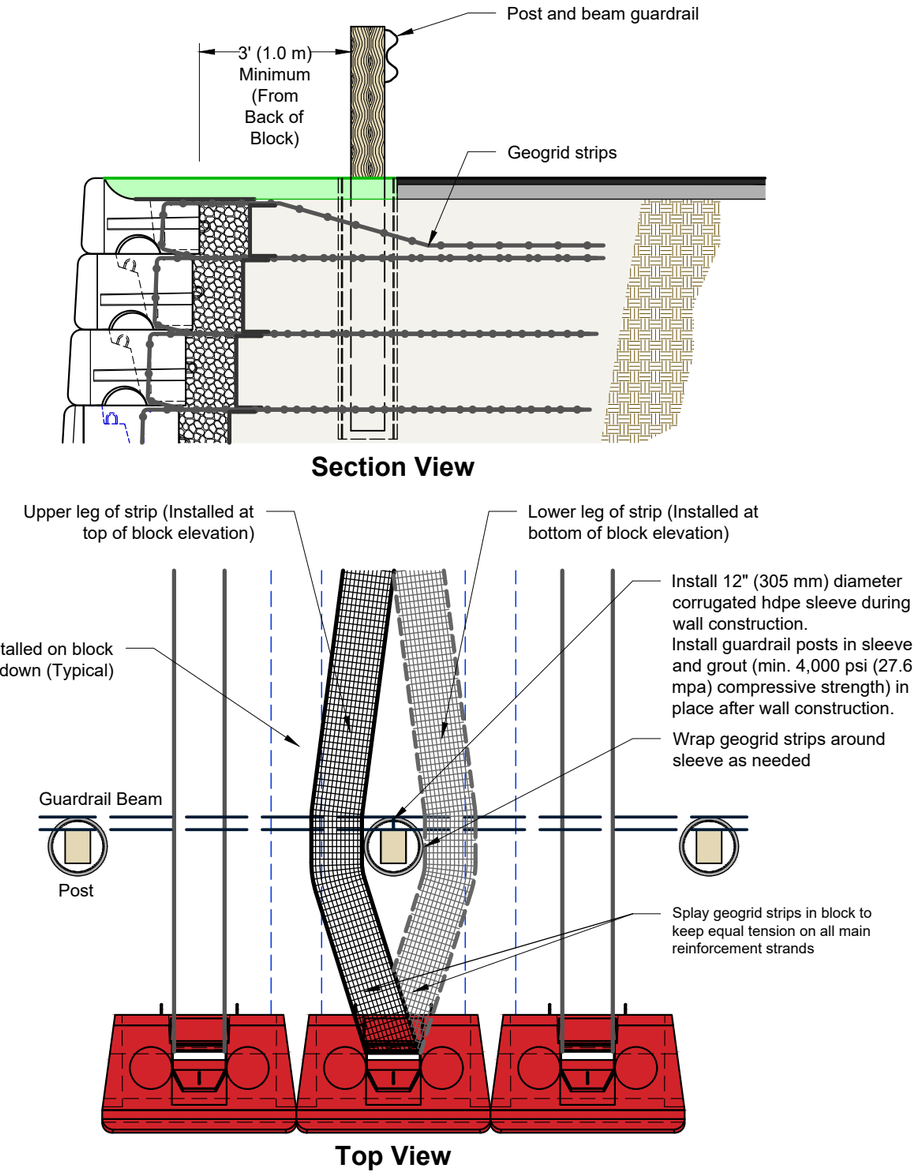
Freestanding Block Coping with Fence Attachment



Post and Beam Guardrail



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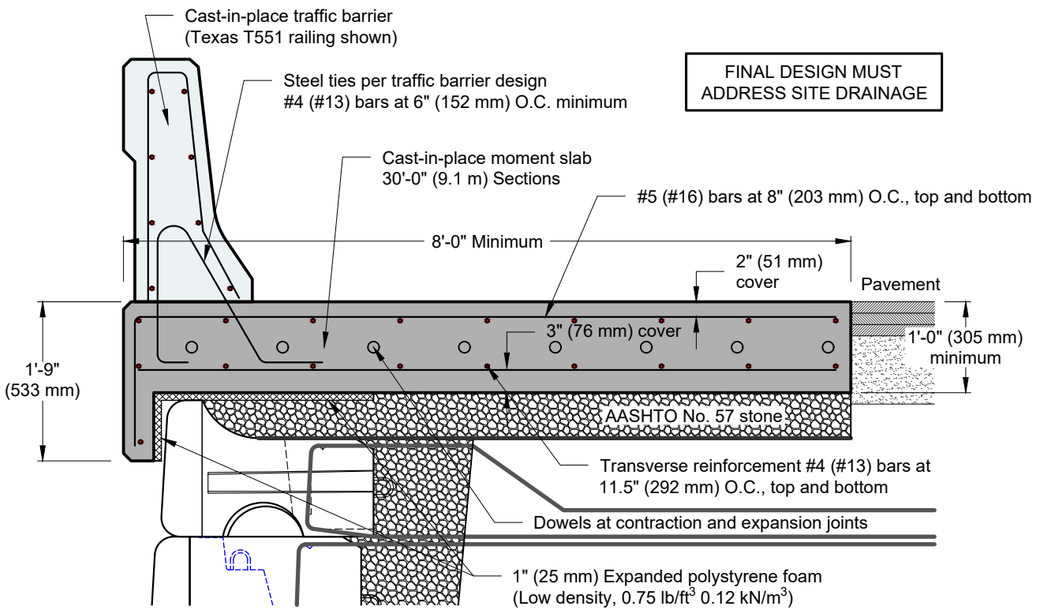
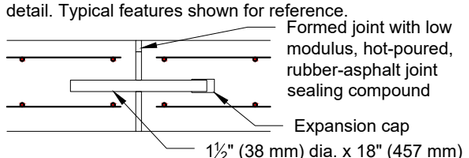
Cast-in-Place Moment Slab Traffic Barrier - Flat Grade Installation

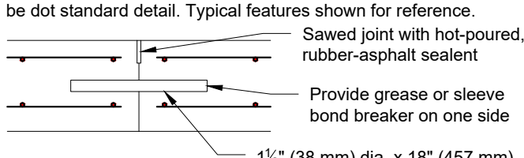


Expansion joints shall be provided in moment slab every 90'-0" (27.4 m). Expansion joint shall be dot standard detail. Typical features shown for reference.



EXPANSION JOINT

Contraction joints shall be provided in moment slab every 30'-0" (9.1 m) between expansion joints. Contraction joint shall be dot standard detail. Typical features shown for reference.



CONTRACTION JOINT

Materials

Concrete for cast-in-place barrier and moment slab shall be dot standard structure mix. Minimum 28 day compressive strength shall be 4,000 psi (27.6 mpa) or higher as specified. Reinforcing steel shall conform to ASTM A706 or AASHTO M31 Grade 60 (420 MPa).

Design

Moment slab shown is dimensioned based on an equivalent static load of 10,000 lbs (44.5 kN) per NCHRP Report 663. Moment slab reinforcement shown is based on *AASHTO LRFD Bridge Design Specifications, 5th edition, 2010*, **TL-4** loading detailed in Table A13.2.1.

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the registered professional engineer in charge of the project.

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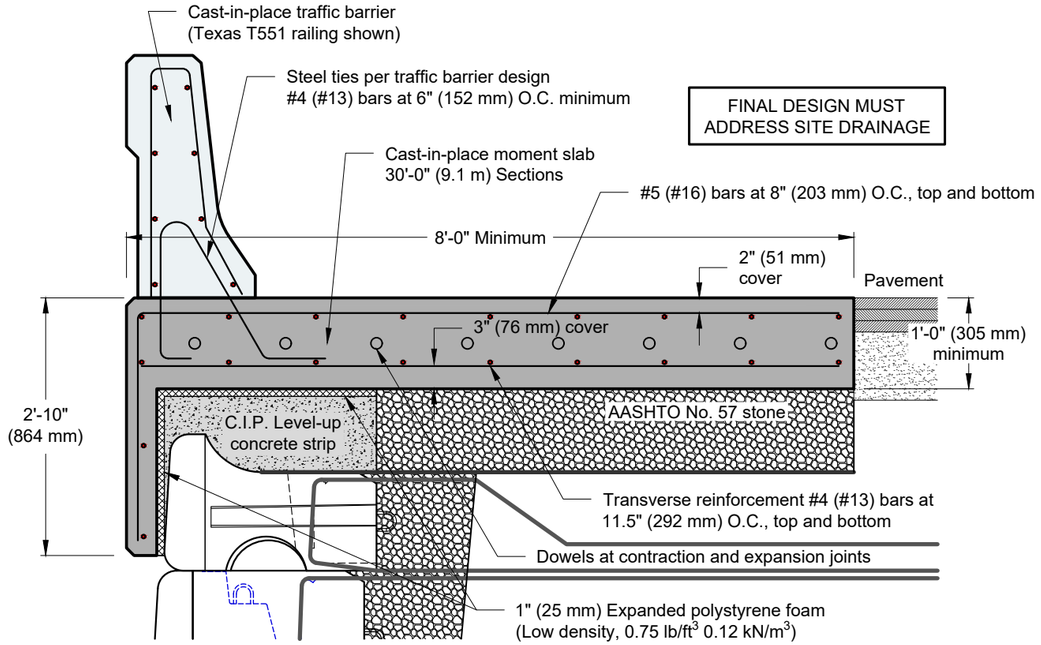
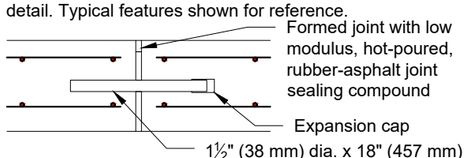
Cast-in-Place Moment Slab Traffic Barrier - Sloping Installation

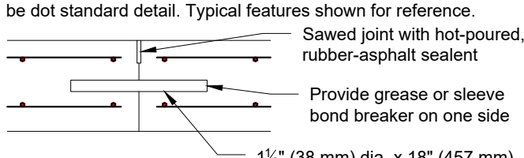


Expansion joints shall be provided in moment slab every 90'-0" (27.4 m). Expansion joint shall be dot standard detail. Typical features shown for reference.



EXPANSION JOINT

Contraction joints shall be provided in moment slab every 30'-0" (9.1 m) between expansion joints. Contraction joint shall be dot standard detail. Typical features shown for reference.



CONTRACTION JOINT

Materials

Concrete for cast-in-place barrier and moment slab shall be dot standard structure mix. Minimum 28 day compressive strength shall be 4,000 psi (27.6 mpa) or higher as specified. Cast-In-Place level up concrete shall be manufactured in accordance with ASTM C94. Minimum 28 day compressive strength shall be 3,500 psi (24.1 MPa) or higher as specified. Reinforcing steel shall conform to ASTM A706 or AASHTO M31 Grade 60 (420 MPa).

Design

Moment slab shown is dimensioned based on an equivalent static load of 10,000 lbs (44.5 kN) per NCHRP Report 663. Moment slab reinforcement shown is based on *AASHTO LRFD Bridge Design Specifications, 5th edition, 2010*, **TL-4** loading detailed in Table A13.2.1.

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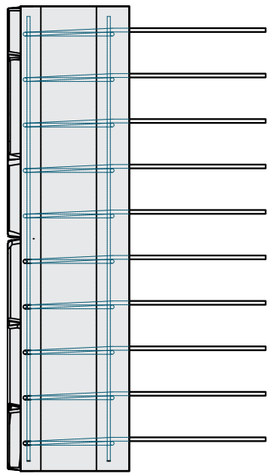
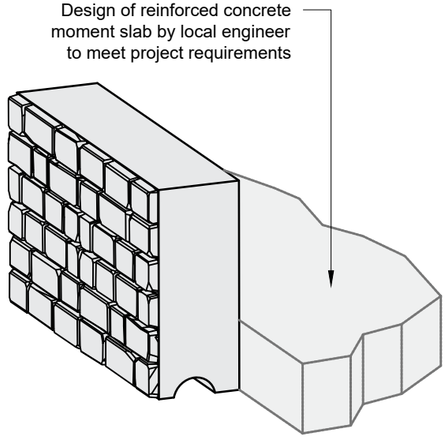
Precast Barrier Block

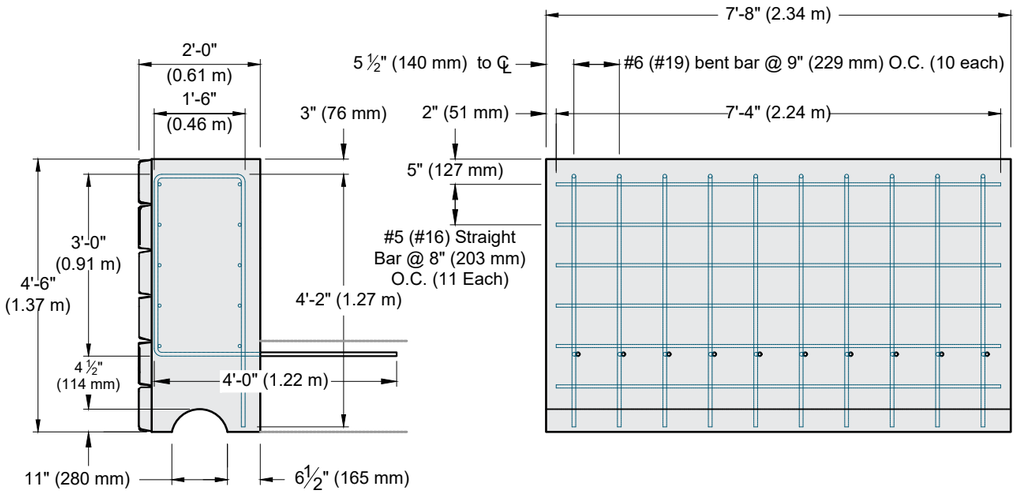




Isometric View

Rebar shown in barrier block meets AASHTO TL-3 loading requirements.
Rebar design in barrier block is intended to be modified as necessary to meet other loading conditions.
All reinforcing steel shall be grade 60 (414 MPa) deformed rebar. All concrete shall have a minimum 28 day compressive strength of 4000 psi (27.6 MPa).

Top View



Side View

Back View

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NOTES

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