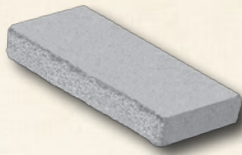


CAPS

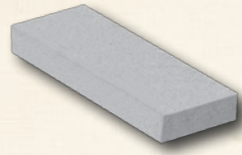
Cap Unit

(One side textured)
72 lbs.
3"H x 12"D x 24"W



Cap Unit

(Smooth all sides)
72 lbs.
3"H x 12"D x 24"W



Stocked in all six standard colors

Stocked in all Stonegate colors and Burgundy Blend

Exposed Face Area 1/2 Sq. Ft. (3" x 24")
Units per pallet..... 48 units
Weight per pallet..... 3504 lbs.
Linear foot coverage..... 2 l.f.

PINS

Country Manor Shouldered Pin

5 1/4" long
1/2" diameter
3/4" diameter at shoulder
100 Pins/Box
5 Pins/Set of Country Manor
1 Box (100 pins) per pallet of Country Manor



COUNTRY CORNER



The 3" x 12" x 12" Country Corner coping corner unit allows the user to make attractive and simple-to-build 90 degree corners when capping a wall using the 3" x 12" x 24" cap. It has two faces, either textured or smooth to match the 24" caps with one side textured or with no sides textured. This eliminates the need to make difficult miter cuts and also allows the user to make attractive caps for the 20", 30" and 38" Country Manor piers (See page 47).

Size..... 3"H x 12"D x 12"W
Exposed face area 1/4 Sq. Ft. (3" x 12")
Weight 36 lbs.
Units per pallet..... 96 units
Weight per pallet 3504 lbs.

Face and Sides Textured

Smooth All Sides



PIER AND PIER CAP DETAILS

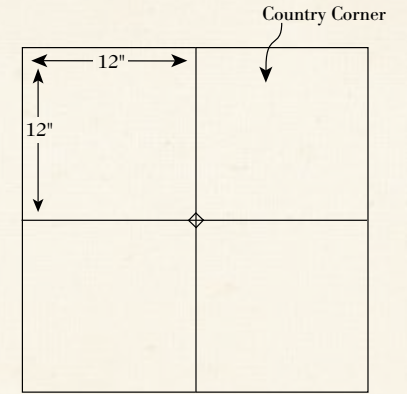
20" Pier



20" Pier, 1st and odd numbered courses



20" Pier, 2nd and even numbered courses



Small Pier Cap: Size: 24" square
For 20" pier or center top cap of larger piers.

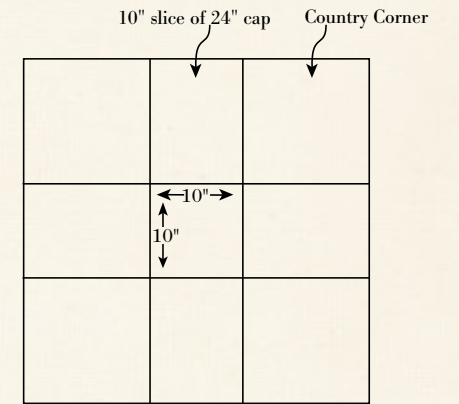
30" Pier



30" Pier, 1st and odd numbered courses

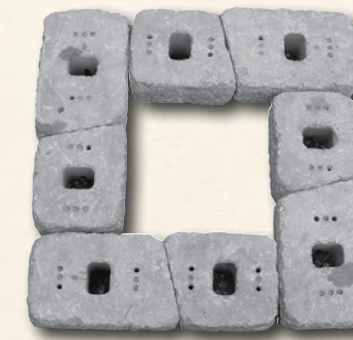


30" Pier, 2nd and even numbered courses



Cap for 30" Pier: Size: 34" square
Note: Leave 10" square in center open for plantings or cover with 24" pier cap.

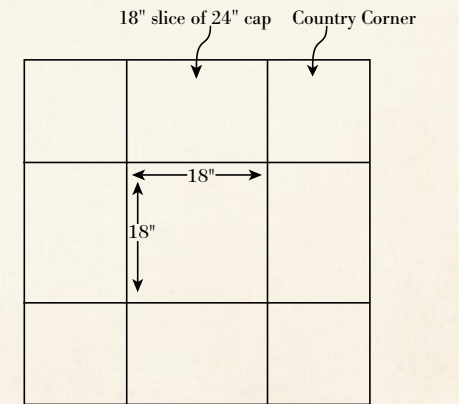
38" Pier



38" Pier, 1st and odd numbered courses

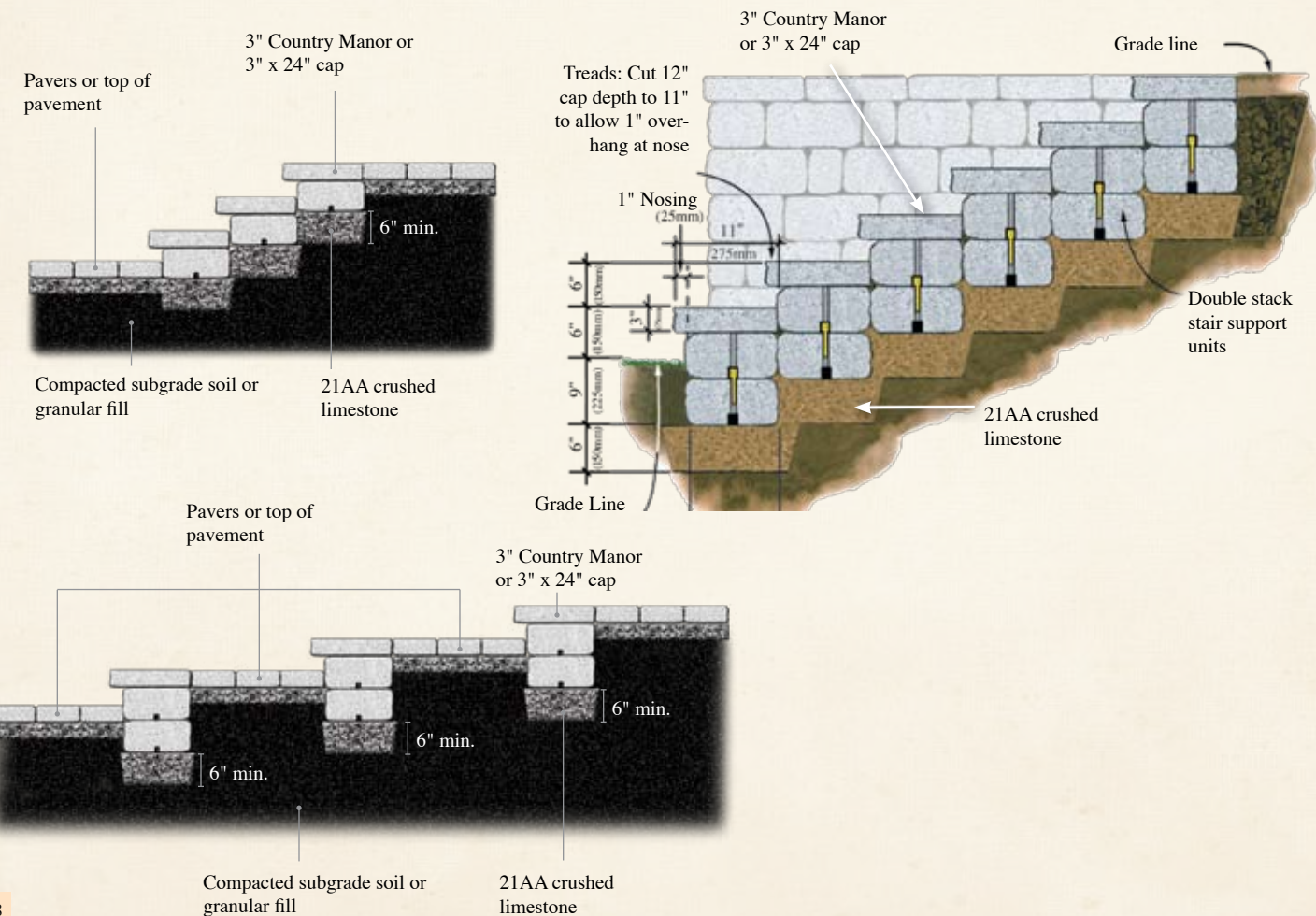


38" Pier, 2nd and even numbered courses



Cap for 38" Pier: Size: 42" square
Note: Leave 18" square in center open for plantings or cover with 24" pier cap. (24" pier cap for center may need to have been glued at the joints ahead of time and allowed to set up prior to installation).

STEP DETAILS

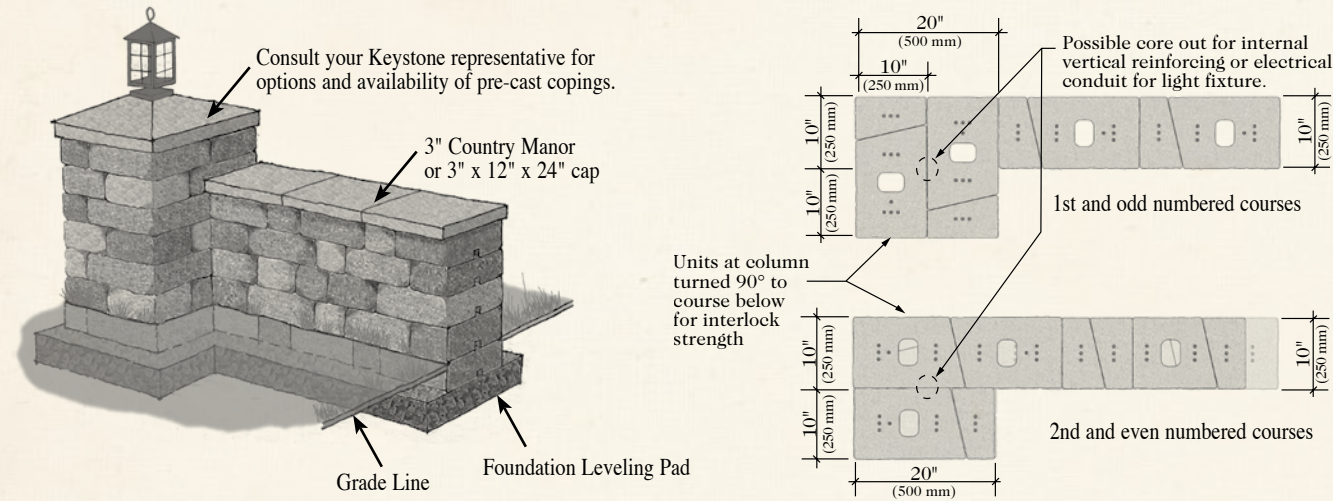


DESIGN DETAILS

FREE STANDING WALL APPLICATIONS

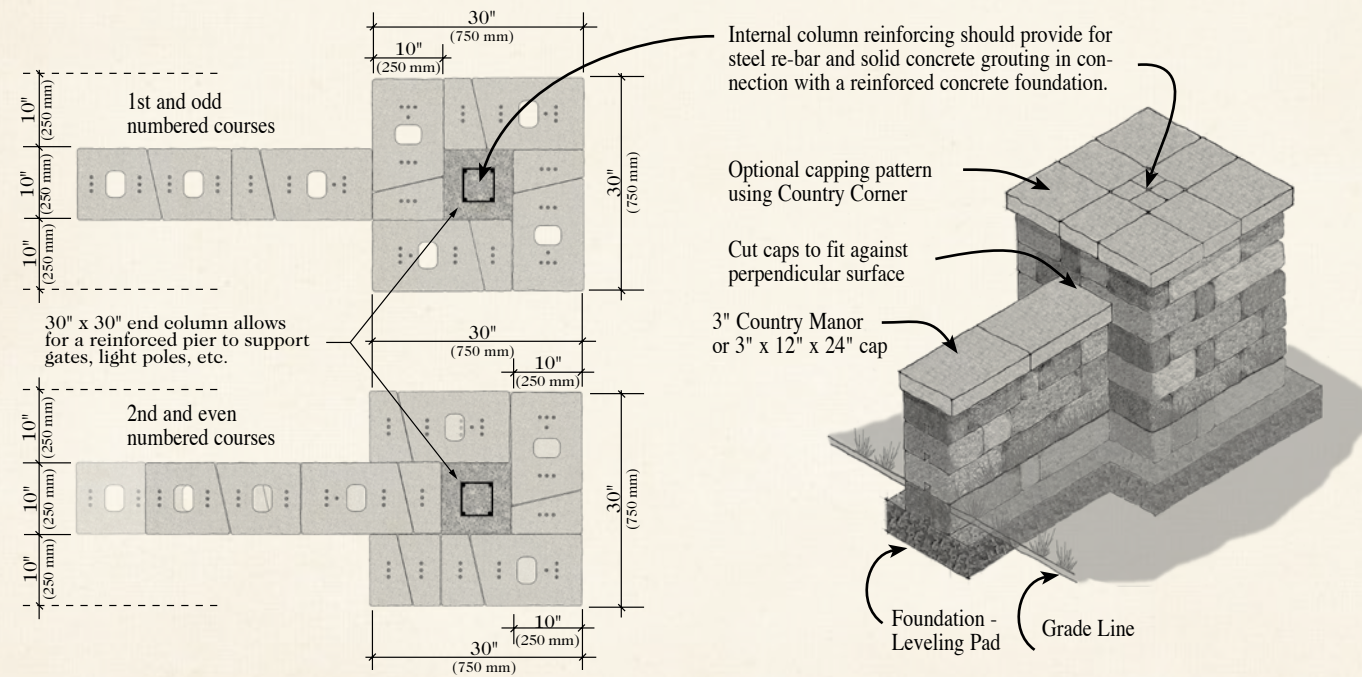
Column Corner

Similar to the "L" Return End wall detail, the column corner utilizes a 20" x 20" column geometry to develop an integrated pier at the end of a running wall. The detail offers visual aesthetic interest as well as provides strength at the termination end of the free standing wall.



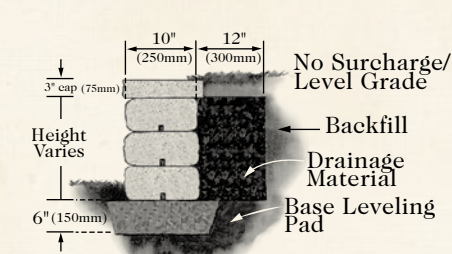
Wall End Column

The wall end column is a larger version of the "Column Corner" detail. The benefit of this design option is the development of internal reinforcement to provide for greater strength and height, along with a larger footprint dimension for aesthetic purposes.

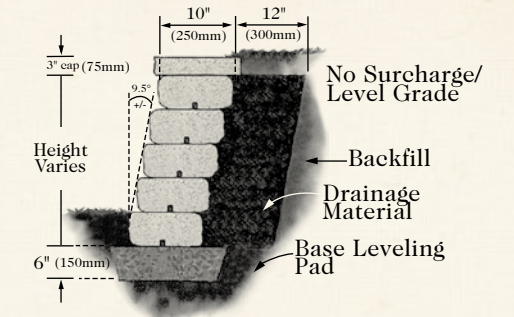


DESIGN CONSIDERATIONS

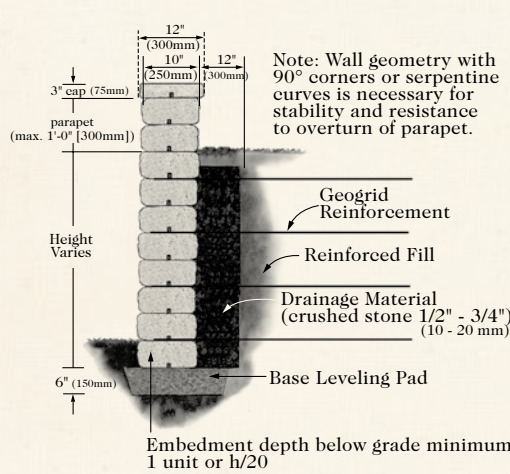
Gravity Wall – Near Vertical Detail



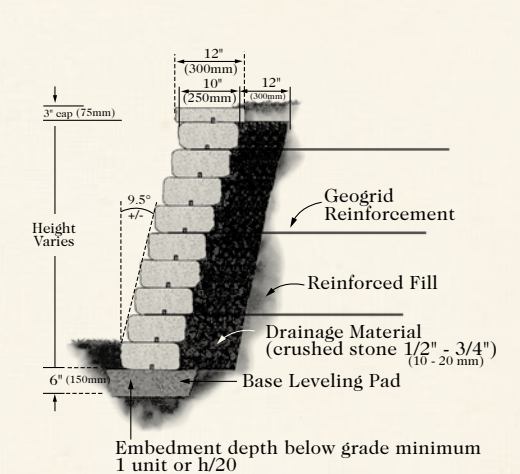
Gravity Wall – Setback Detail 9.5° + Batter



Reinforced Wall – Near Vertical Detail



Reinforced Wall – Setback Detail 9.5° + Batter



GRAVITY WALLS (maximum unreinforced wall height)				
Maximum Height	Near Vertical		9.5° +/- Batter	
	Level	3H:1V	Level	3H:1V
SAND/GRAVEL PHI=34°	2'-0" (0.6m)	1'-6" (0.45m)	3'-0" (0.9m)	2'-6" (0.75m)
SILTY SAND PHI = 34°	1'-6" (0.45m)	1'-6" (0.45m)	2'-6" (0.75m)	2'-0" (0.6m)
SILT/LEAN CLAY PHI = 26°	1'-6" (0.45m)	1'-0" (0.3m)	2'-0" (0.6m)	1'-6" (0.45m)

DESIGN NOTES

- Friction angle (PHI) for earth pressure calculations is (min. 28° max. 32°).
- Moist weight of all soil types is 120 lb./ft.3 (19kN/m2).
- Sliding calculations use 6" (150mm) crushed stone leveling pad as compacted foundation material.
- All backfill materials are compacted to 95% maximum density.
- The term "vertical" implies a wall built to a near vertical alignment with a slight positive setback.
- The information provided herein is for preliminary design use only. A qualified engineer should be consulted for design and analysis of structures. Keystone Retaining Wall Systems, Inc. assumes no liability for the improper use of these tables.

REINFORCED WALLS – Vertical

GEOGRID: Per manufacturer recommendation.

For walls above 4'-6", use of battered pin position is recommended

REINFORCED WALLS – Battered (9.5° +/- setback)

GEOGRID: Per manufacturer recommendation.