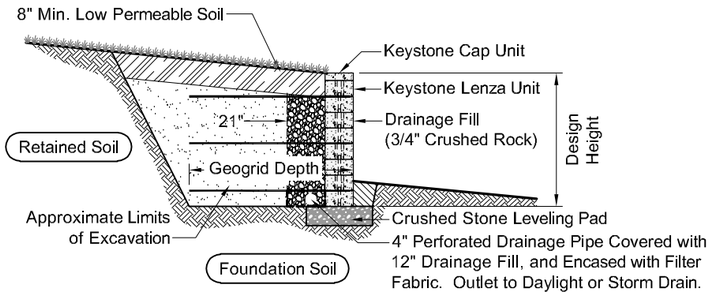
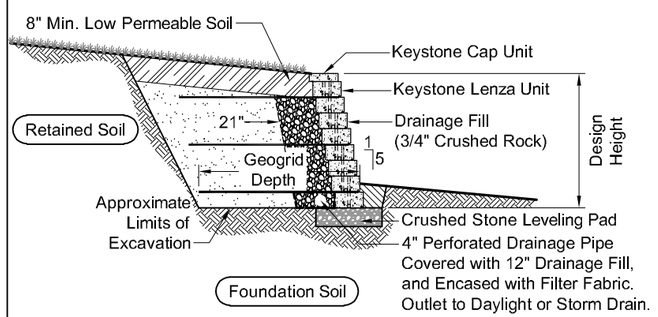


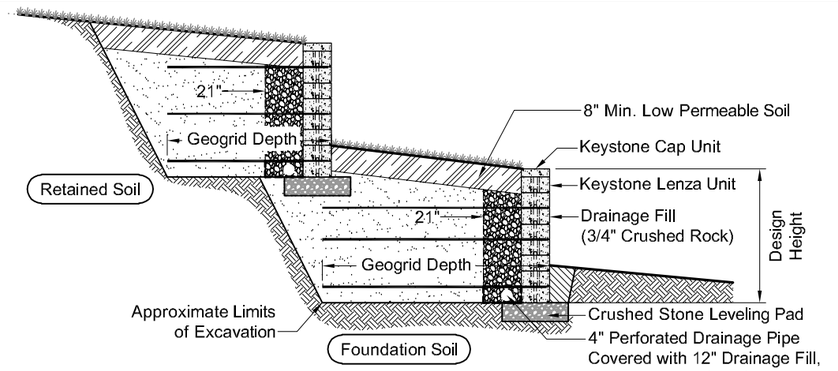
Typical Reinforced Wall Section

Lenza Unit - Vertical (No Setback)



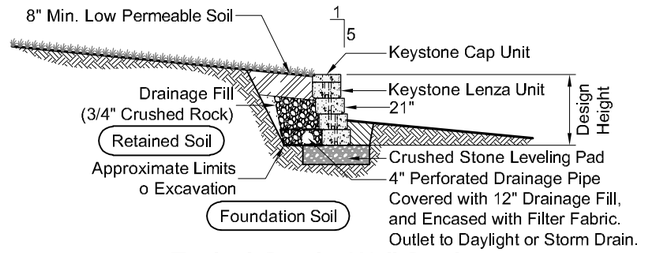
Typical Reinforced Wall Section

Lenza Unit - 1" Setback



Typical Tiered Wall Section

Lenza Unit - Vertical (No Setback)



Typical Gravity Wall Section

Lenza Unit - 1" Setback

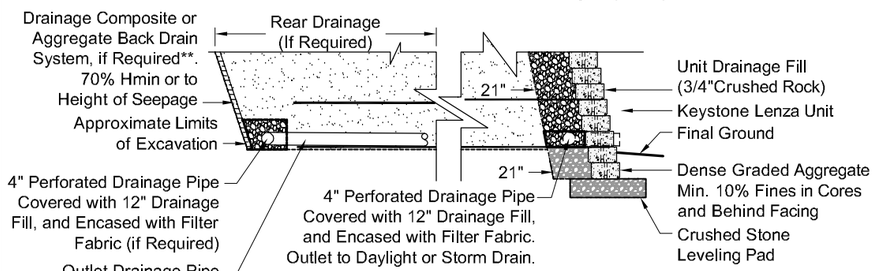
Raised Drainage Pipe Should Only be Used When:

- Gravity Outlet from Base of Wall is Not Possible.

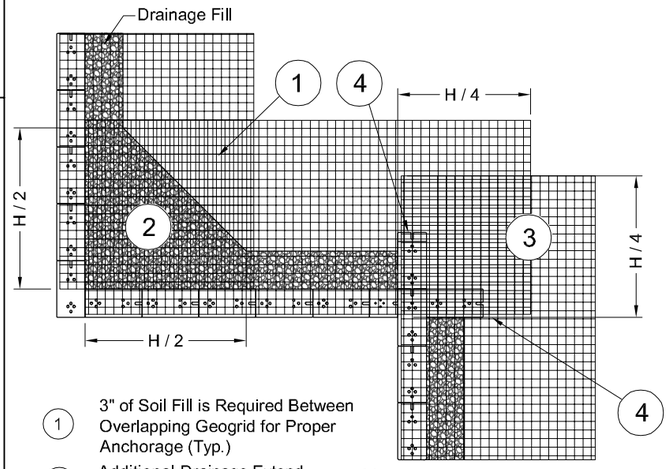
Rear Drainage Pipe Should Be Included When:

- Site Geometry Requires Raised Pipe in Order to Outlet at Face.
- Groundwater or Seepage is Present in the Retained Soils.
- Springs or Seasonal Seepage Potential is Noted in the Geotechnical Report.
- Reinforced Soil is of Lower Permeability of the Retained Soils.

Generally, Additional Drainage Material Such as Aggregate Drains and Fabrics and/or Drainage Composite Nets are Used in Conjunction with a Rear Drainage Pipe. When the Above Conditions are Not Present or Groundwater Conditions are Not a Factor, the Rear Drainage Pipe may be Omitted.



Alternate Drainage Pipe Locations



1. 3" of Soil Fill is Required Between Overlapping Geogrid for Proper Anchorage (Typ.)
2. Additional Drainage Extend Wall Height / 2 (Typ.)
3. Additional Geogrid Extend Wall Height / 4 (Typ.)
4. Extend Wall to Accomodate Wall Batter.

Note:

1. Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.

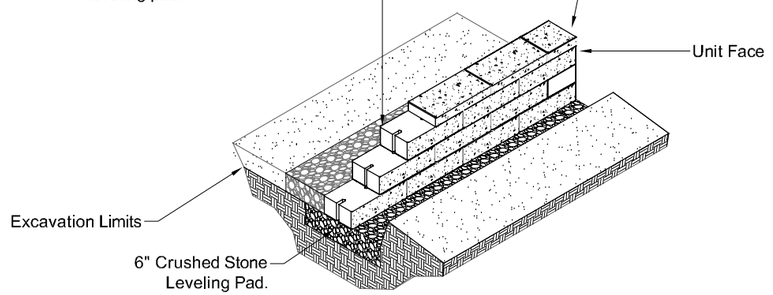
Geogrid Installation on Corners and Curves

Base Leveling Pad Notes:

1. The leveling pad is to be constructed of crushed stone.
2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.

Lenza Unit	
Width:	18"
*Depth:	9"
Height:	5"
*Weight:	60 lbs

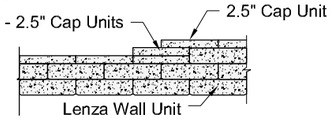
Cap Unit	
Width:	18.5"
*Depth:	10"
Height:	2.5"
*Weight:	36 lbs



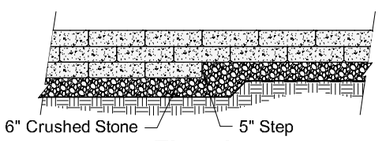
Lenza Unit/Base Pad Isometric Section View

*Dimensions & Weight May Vary by Region

Note: Secure all cap units with exterior grade construction adhesive.

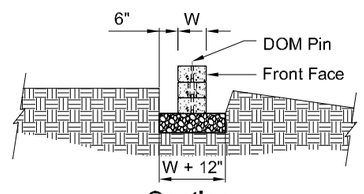


Top of Wall Steps



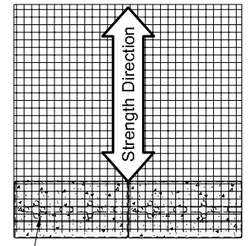
Elevation

Note:
The leveling pad is to be constructed with crushed stone.



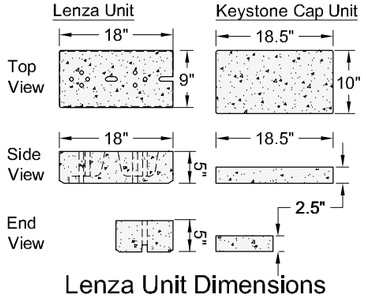
Section

Leveling Pad Detail



Geogrid is to be Placed on Level Backfill and Extended Over the Fiberglass Pins. Place Next Unit. Pull Grid Taut and Backfill. Stake as Required.

Grid & Pin Connection



Lenza Unit Dimensions

KEYSTONE® RETAINING WALL SYSTEMS
4444 W 78th St, Minneapolis, MN 55435
(952) 897-1040

Designed By: ESR	Title: Typical Lenza Unit Details		Date:
Checked By: PJS	Project: Keystone Retaining Wall Systems Typical Wall Details		Project No:
Scale: No Scale			Drawing No: