

# TANDEM® WALL

Freestanding & Retaining Wall



RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIREPIT	RETAINING WALLS	MAILBOX	FINISHES					
							SHOT BLAST	SHOT BLAST SEALED	GROUND FACE	GROUND FACE SEALED	SMOOTH	TUMBLED/ ANTIQUED
✓	✓	✓	✓		✓							

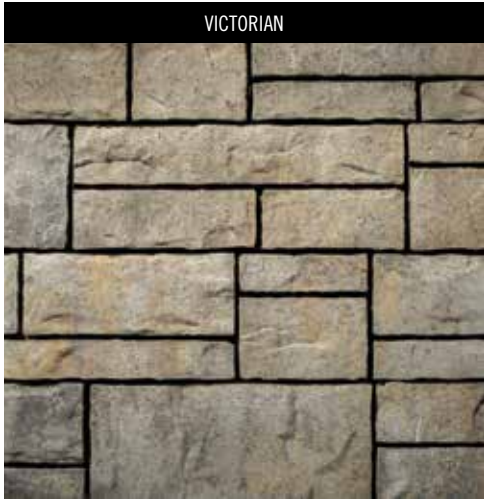
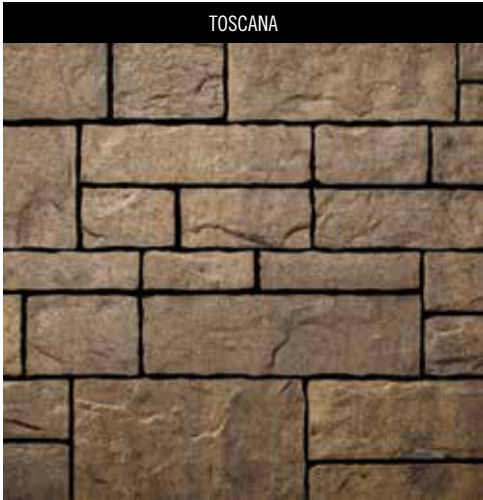
## PRODUCT SPECIFICATIONS

Final swatch selection should always be verified with physical samples.

Tandem Wall Ashlar	
7 x 13 2/3 x 3	
7 x 15 2/3 x 3	
7 x 18 x 3	

Cap Unit	
3 1/4 x 24 x 15	

8" Connecting Member	



PALLET INFORMATION / ESTIMATING CHART

TANDEM WALL										
Unit Size	Unit Height	Unit Front Width	Unit Back Width	Unit Depth	SqFt/ Pallet	Face Ft/ Pallet	SqFt/ Unit	Unit Weight	Weight/ Pallet	Units/ Pallet
Standard Wall Total	-	-	-	-	70.1	35.05	-	-	2082	90
Smooth Wall Total	-	-	-	-	70.1	35.05	-	-	2082	90
Ashlar Wall Total	-	-	-	-	70.1	35.05	-	-	2082	90
Small Unit	7"	13.2"	-	-	-	-	.64	18	-	30
Medium Unit	7"	15.8"	-	-	-	-	.77	22	-	30
Large Unit	7"	18.5"	-	-	-	-	.90	25	-	30
Cap Unit	3.24"	24"	-	15"	-	-	-	90	2920	30
Ashlar Column Unit	7	18.5"	-	-	45	-	.90	25	-	50

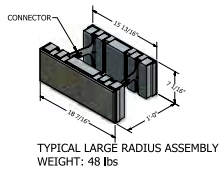
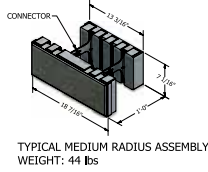
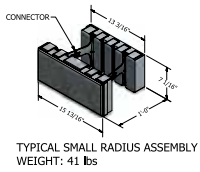
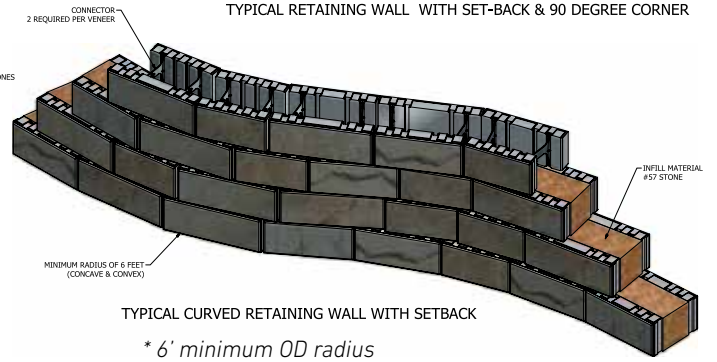
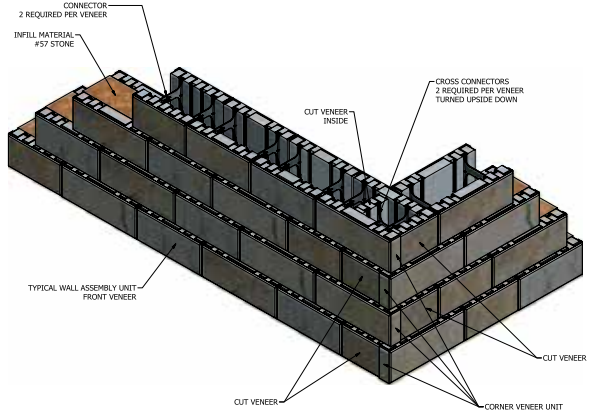
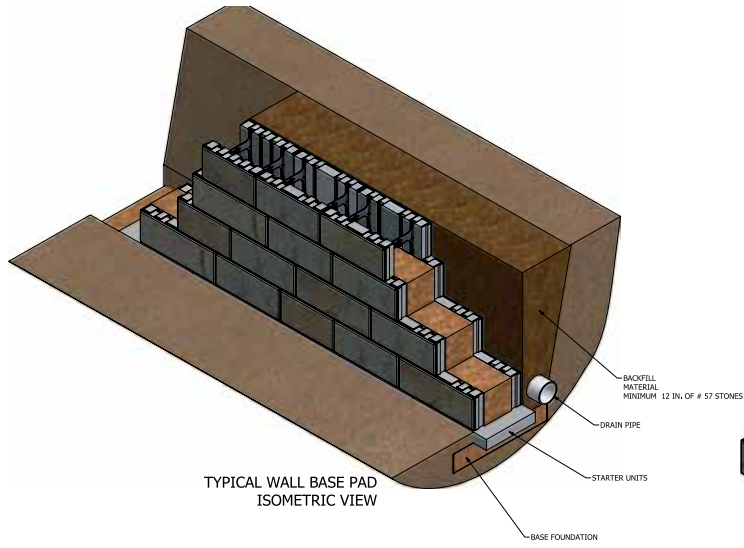
For more pattern options visit [belgard.com/products/retaining\\_walls](http://belgard.com/products/retaining_walls)

NOTES

## TANDEM SEGMENTAL RETAINING WALL GUIDE

**NOTE:**

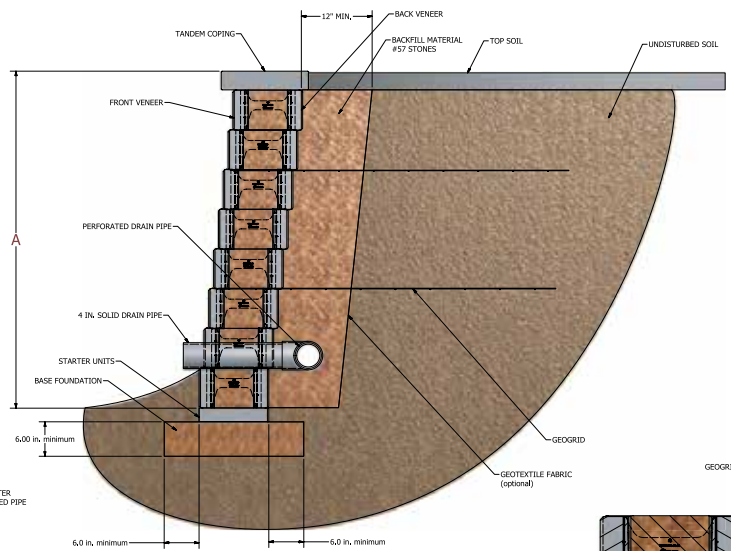
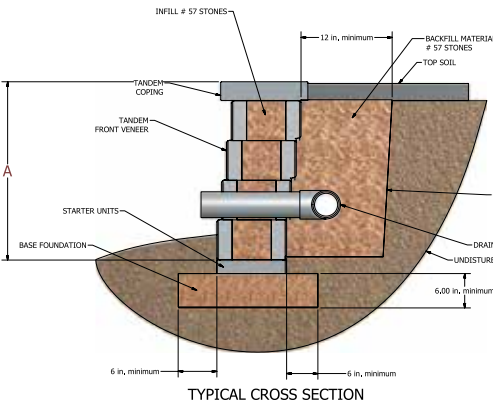
- 1-The base shall be made of starter units
- 2-Center Tandem veneer units on starter units.
- 3-The base foundation shall be approved by the site geotechnical engineer prior to placement of the starter units.
- 4-Backfill is typically on site soil unless otherwise shown on the plans.



## TANDEM SEGMENTAL RETAINING WALL SECTION VIEWS

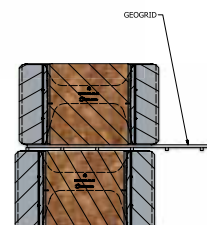
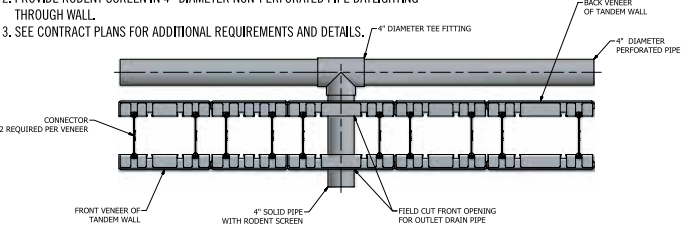
**NOTE:**

1. Base material shall be constructed of crushed stone. Center Lafitt Tandem units on leveling pad or foundation blocks or 2,000psi unreinforced lean concrete leveling pad.
2. The base foundation shall be approved by the geotechnical engineer prior to placement of the leveling pad.
3. Upper level of wall units not showing infill material in order to show connectors.
4. Backfill is typically onsite soil unless otherwise shown on the plans.

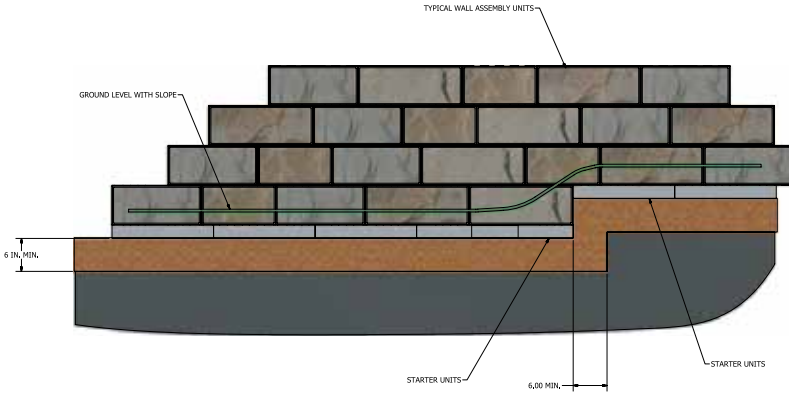


**NOTE:**

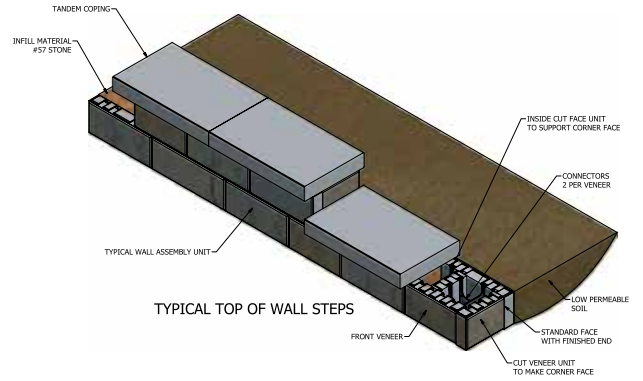
1. THE DRAINAGE SYSTEM SHALL CONSIST OF A 4" DIAMETER PERFORATED PVC PIPE WRAPPED WITH A GEOTEXTILE FABRIC.
2. PROVIDE RODENT SCREEN IN 4" DIAMETER NON-PERFORATED PIPE DAYLIGHTING THROUGH WALL.
3. SEE CONTRACT PLANS FOR ADDITIONAL REQUIREMENTS AND DETAILS.



# SEGMENTAL RETAINING WALL TYPICAL DETAIL VIEWS

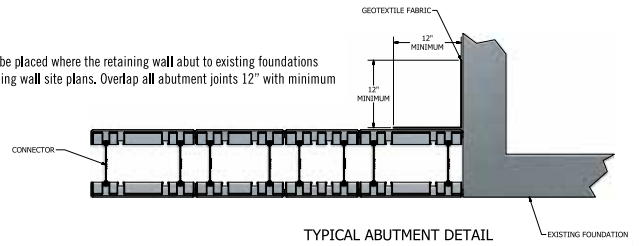


TYPICAL ELEVATION WALL WITH SLOPE



TYPICAL TOP OF WALL STEPS

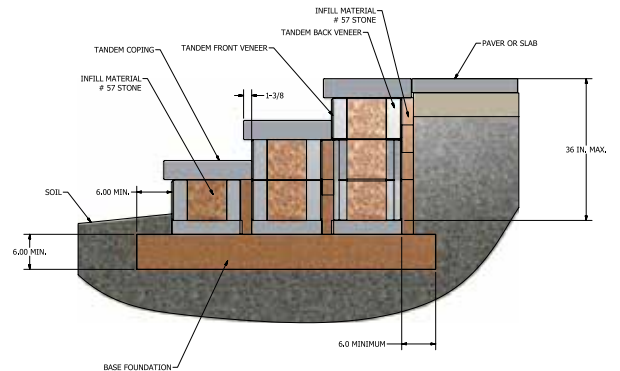
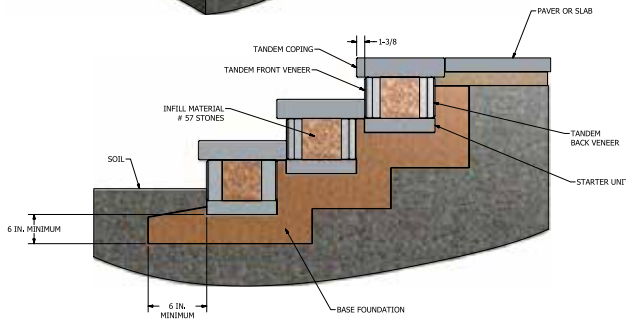
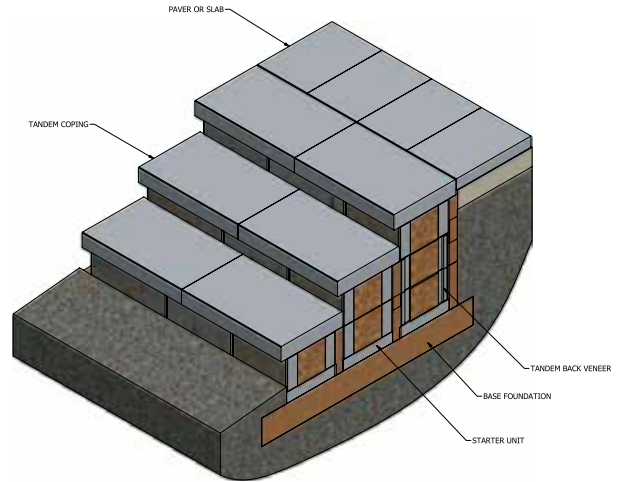
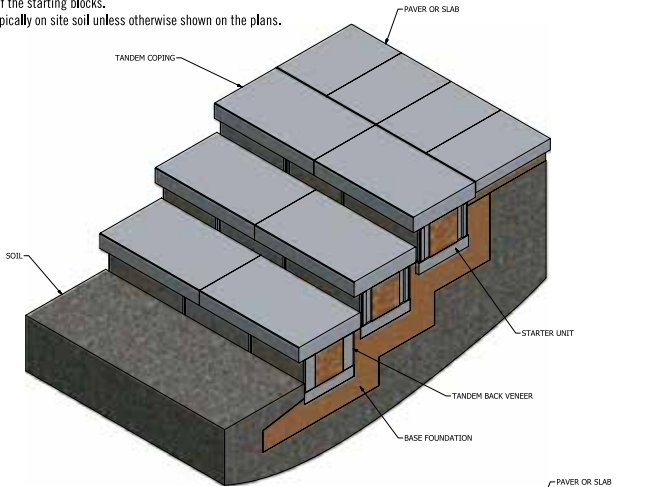
**NOTE:**  
 1. Geotextile fabric shall be placed where the retaining wall abut to existing foundations as shown on the retaining wall site plans. Overlap all abutment joints 12" with minimum 24" fabric.



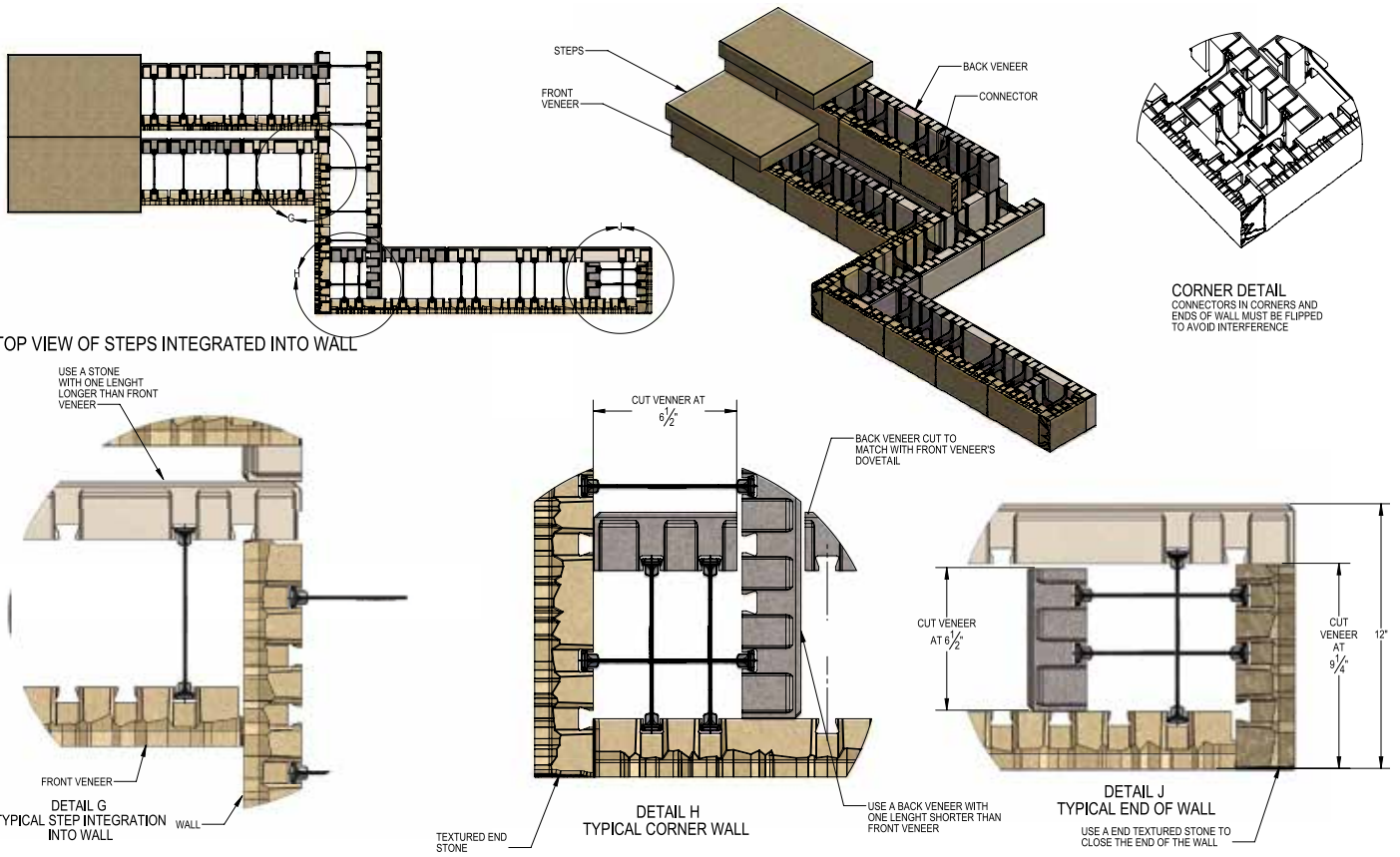
TYPICAL ABUTMENT DETAIL

## STEP DETAIL VIEWS

**NOTE:**  
 1-The base shall be made of starting blocks  
 2-Center Tandem face units on starting units.  
 3-The base foundation shall be approved by the site geotechnical engineer prior to placement of the starting blocks.  
 4-Backfill is typically on site soil unless otherwise shown on the plans.



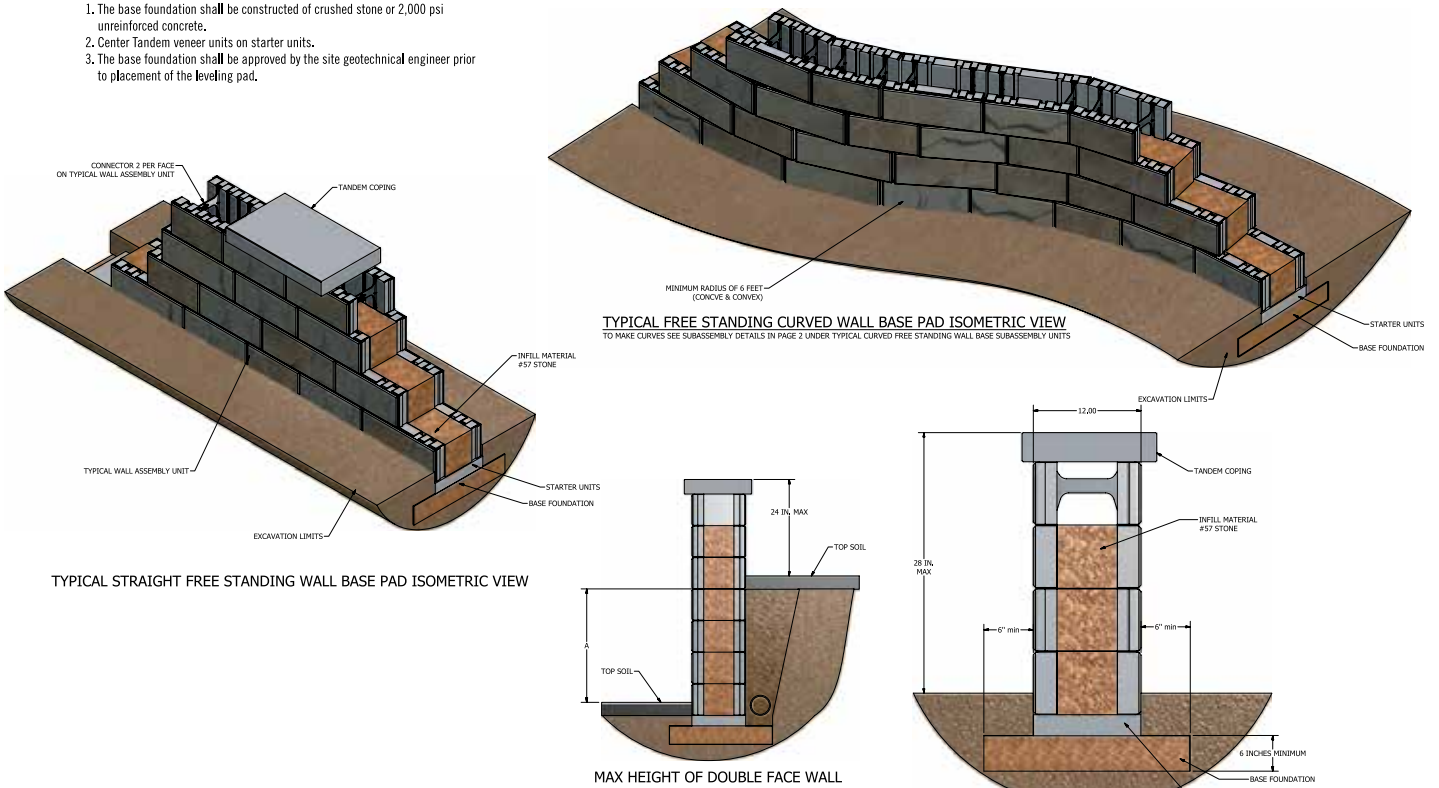
## STEPS & CORNERS



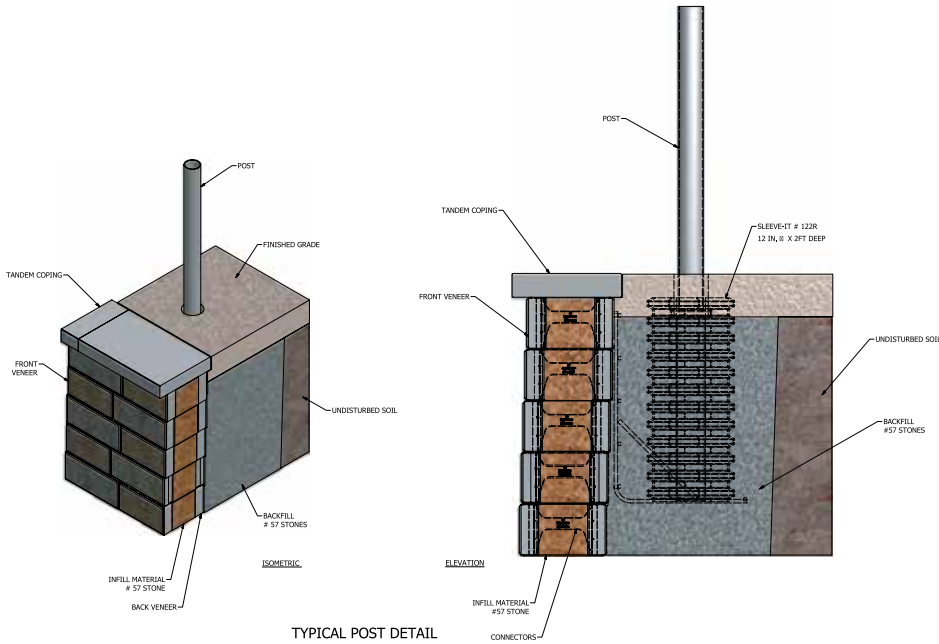
## FREE STANDING WALLS

**NOTE:**

1. The base foundation shall be constructed of crushed stone or 2,000 psi unreinforced concrete.
2. Center Tandem veneer units on starter units.
3. The base foundation shall be approved by the site geotechnical engineer prior to placement of the leveling pad.



## POST DETAIL VIEWS

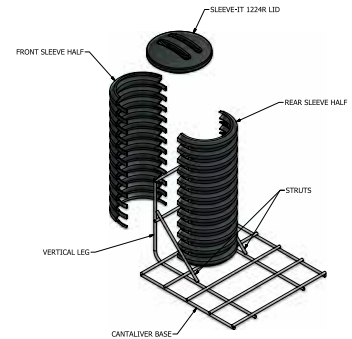


**NOTE:**

1. Cut through geogrid layers.
2. Fencing systems approved for use with Sleeve-it 1224R are limited to the following heights: Chain link – up to 8 ft., Privacy-up to 6 ft (wooden, PVC, metal) Pedestrian Guards; 4ft max, Post size 4 x 4 maximum.
3. Designed by others.
4. A geotextile filter fabric separator is required between the unit drainage material and site backfill soil in any application where free water is expected upon the wall face such as in a detention pond or along waterways where the high water level may be above the bottom of the wall. Use of filter fabric shall extend a minimum of 1 foot above the anticipated high water level.
5. A fence, railing, guide rail/fence or other protective barrier is typically required along the top of all walls as required by the site engineer and local codes. The choice, location, and compliance to local codes of the appropriate barrier system is the responsibility of the owner and its site engineer.
6. Backfill is typically onsite soil unless otherwise shown in the plans.

**(OPTIONAL)**

7. Geotextile fabric as specified by the designing engineer is shown on the back face of the walls, it is recommended to be used to prevent native soils from infiltrating into the infill material.



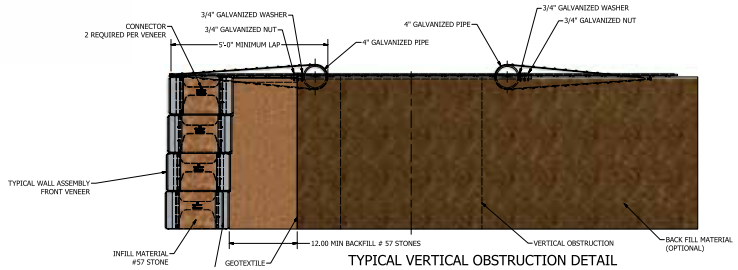
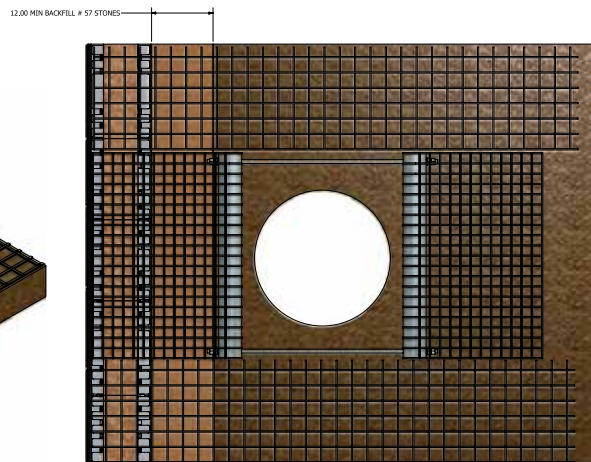
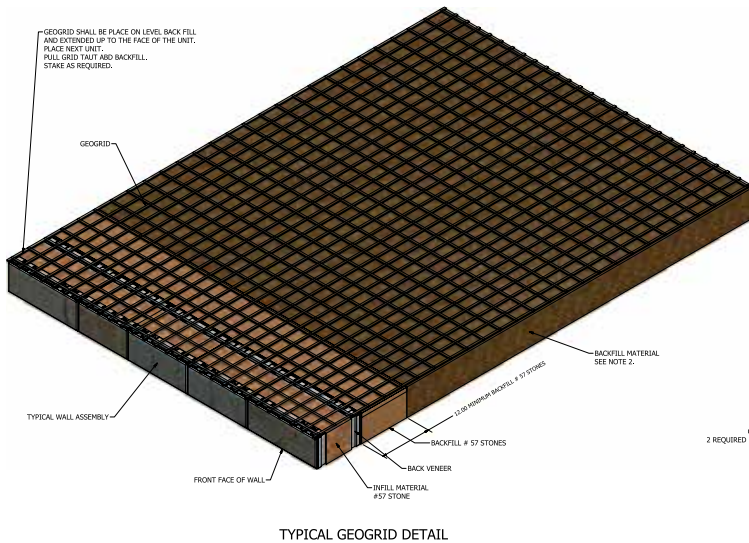
## TYPICAL GEOGRID INSTALLATION WITH DRAIN

**NOTE:**

1. Geogrid shall be placed on level backfill and extended over connector and up to the face of the unit, pull grid taut and backfill. Stake as required.
2. Backfill is typically onsite soil unless otherwise shown on the plans.
3. Geotextile fabric as specified by the designing engineer is shown on the back face of the walls, it is recommended to be used to prevent native soils from infiltrating into the infill material.

**NOTE:**

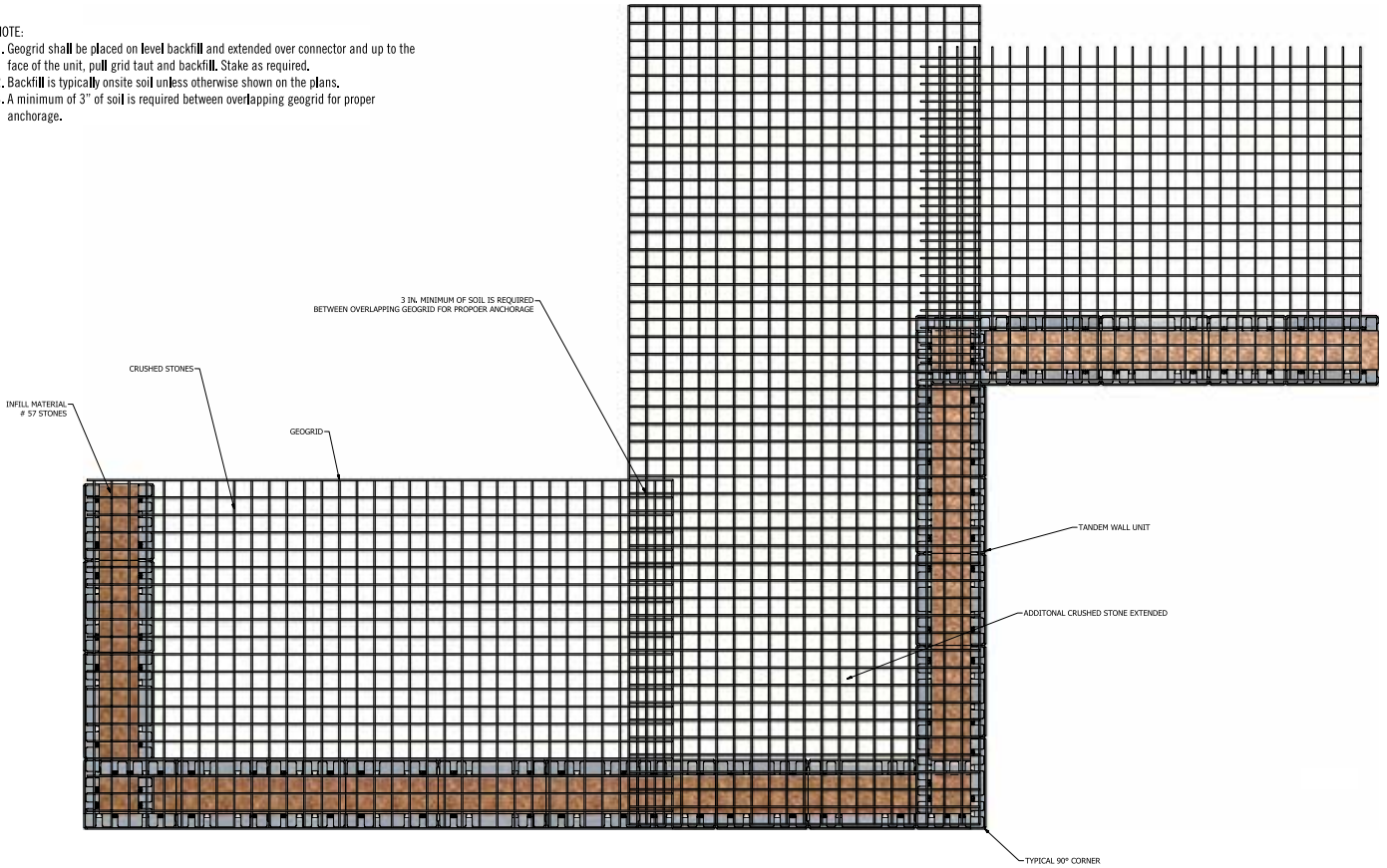
1. Redirect geogrid above drainage pipes as required to avoid obstructions with drainage pipes extending transversely through the reinforced zone.
2. Reinforce the walls at the vertical obstruction as shown.
3. Backfill is typically onsite soil unless otherwise shown on the plans.



## TYPICAL GEOGRID INSTALLATION WITH CORNERS

**NOTE:**

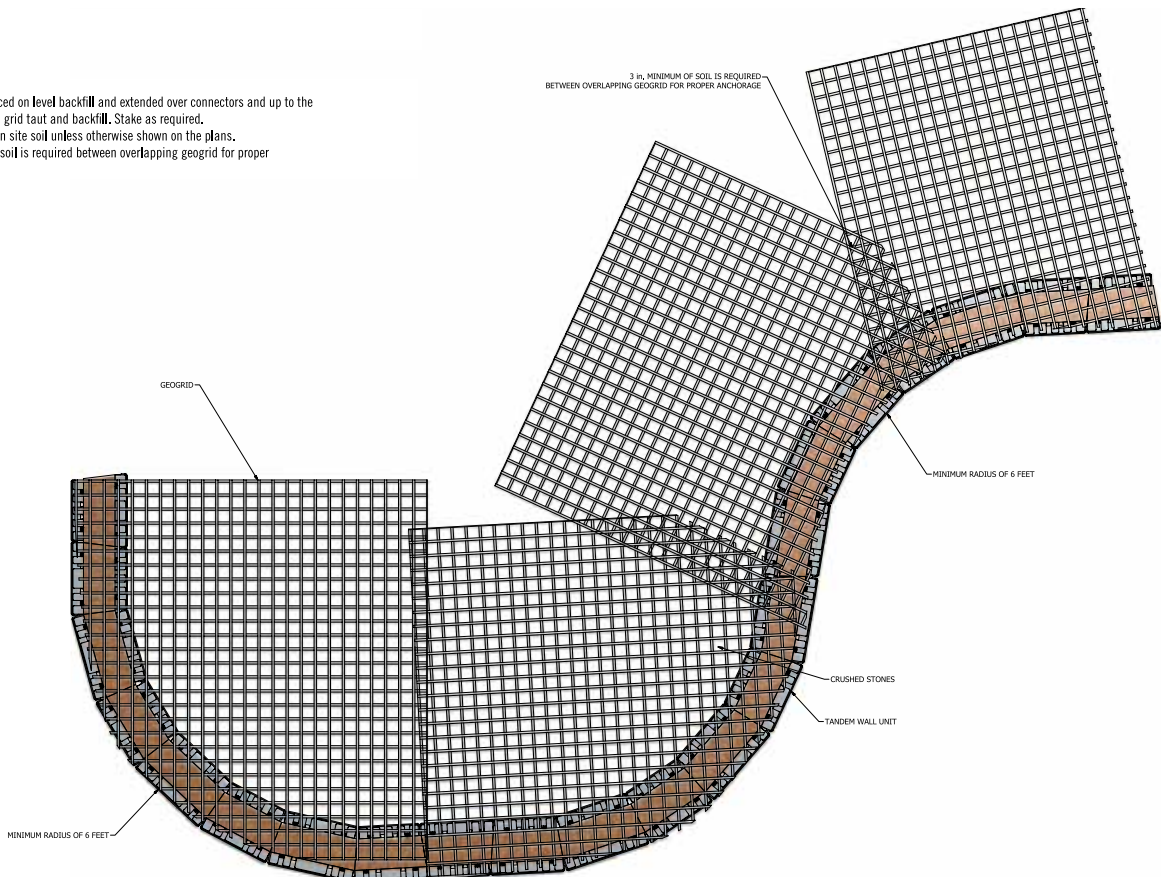
1. Geogrid shall be placed on level backfill and extended over connector and up to the face of the unit, pull grid taut and backfill. Stake as required.
2. Backfill is typically onsite soil unless otherwise shown on the plans.
3. A minimum of 3" of soil is required between overlapping geogrid for proper anchorage.



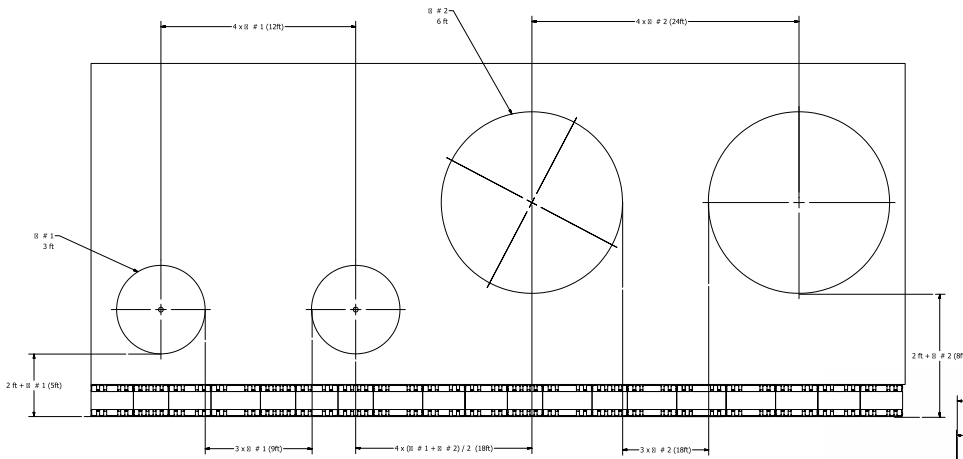
## TYPICAL GEOGRID INSTALLATION IN CURVES

**NOTE:**

- 1-Geogrid shall be placed on level backfill and extended over connectors and up to the face of the unit, pull grid taut and backfill. Stake as required.
- 2-Backfill is typically on site soil unless otherwise shown on the plans.
3. A minimum of 3" of soil is required between overlapping geogrid for proper anchorage.

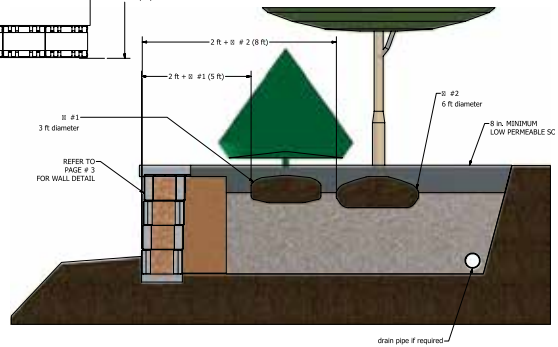


TYPICAL WALL TREE PLANTING DETAILS



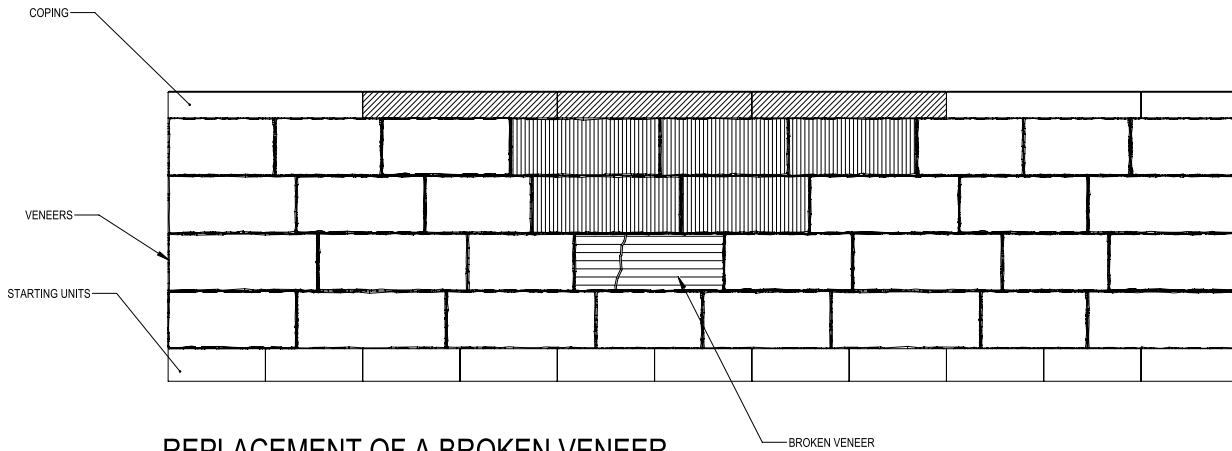
PLAN VIEW

- NOTE:
- 1- All planting offsets shall be a minimum of 2 feet + the opening diameter as measured from face of the wall
  - 2- Lateral spacing between openings shall be a minimum of 3 times the opening diameter.
  - 3- Soil reinforcement shall be carefully cut to avoid disturbance of adjacent reinforcement.
  - 4- Only top two layers of reinforcement may be cut to allow planting of tree root ball.
  - 5- Extreme care shall be taken if installing irrigation systems to not damage soil reinforcement.
  - 6- Numbers in parenthesis are for example only.






SECTION VIEW

BROKEN VENEER REPLACEMENT



REPLACEMENT OF A BROKEN VENEER

BEFORE REPLACING THE BROKEN VENEER, REMOVE ALL THE VENEERS AND COPINGS FROM TOP OF IT IN A "V" SHAPE. ONCE THE AGREGATES ARE DRAIN FROM THAT SPACE, REPLACE THE BROKEN VENEER AND PUT BACK THE OTHER VENEERS BEFORE REFILLING THE WALL.

-  BROKEN VENEER
-  VENEER TO REMOVE
-  COPING TO REMOVE