

Austin Gisi  
Eagle Scout Service Project Proposal:

Ruth Asawa School of the Arts  
Erosion Control and Beautification Project



# **Problem** **(Before)**

# Hill Erosion

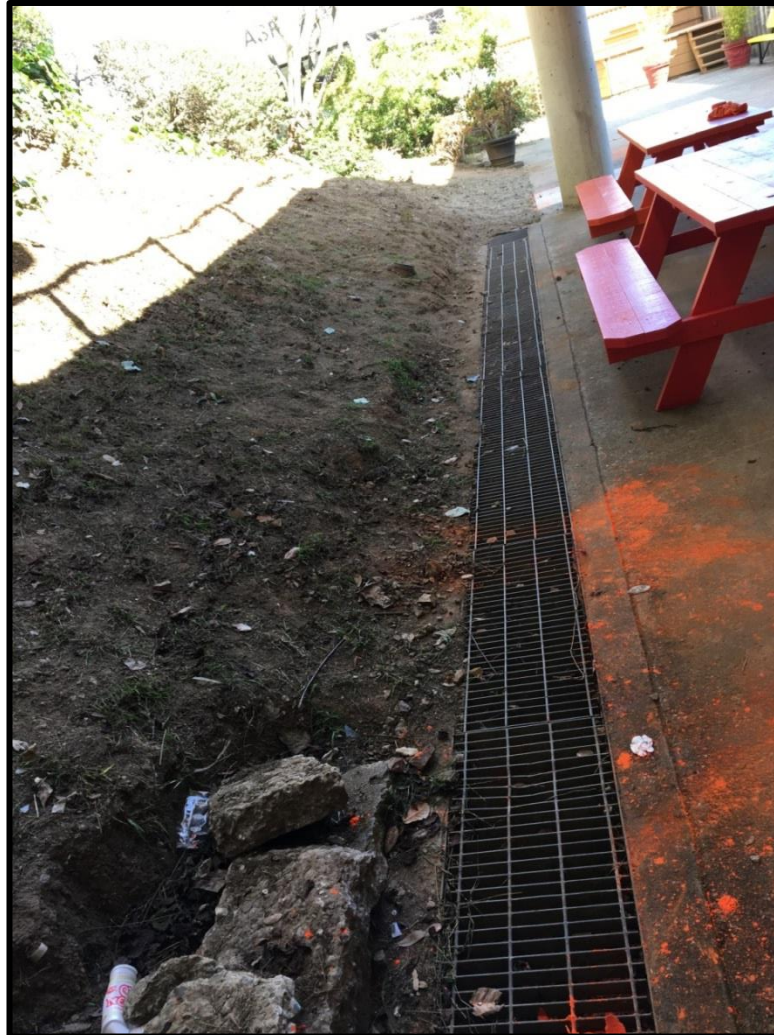




# Hill Erosion



# Drainage System





# Past Attempt



# **Solution**

## **(After)**

- i. Build Erosion Controlling Retaining Wall
- ii. Erosion Control netting to hill
- iii. Add top soil
- iv. Clean Drainage System



# Example Wall Type





# Wall Composition



Measure & Mark



Tamper Dirt



Tamper Paver Base Gravel



Level

Check Level



Stagger Bricks



Stack Rows

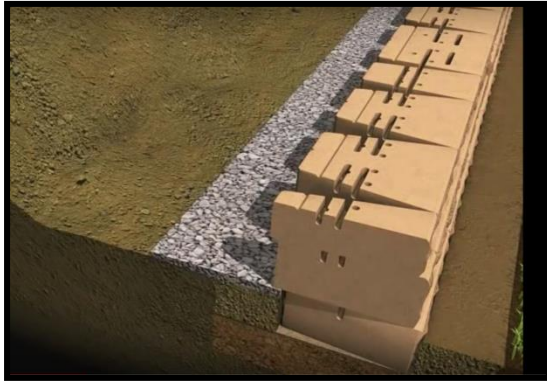


Add Top Soil

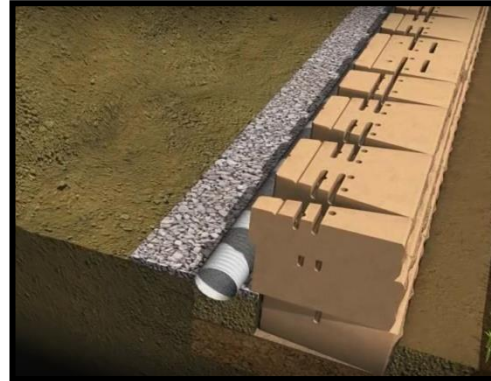


# Wall Drainage

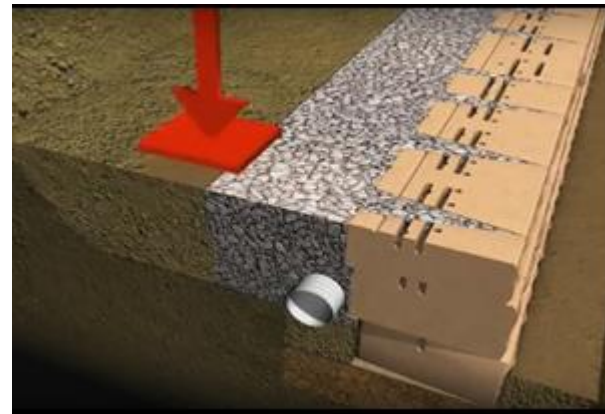
Drainage Gravel 1"



Drainage Proliferated Pipe

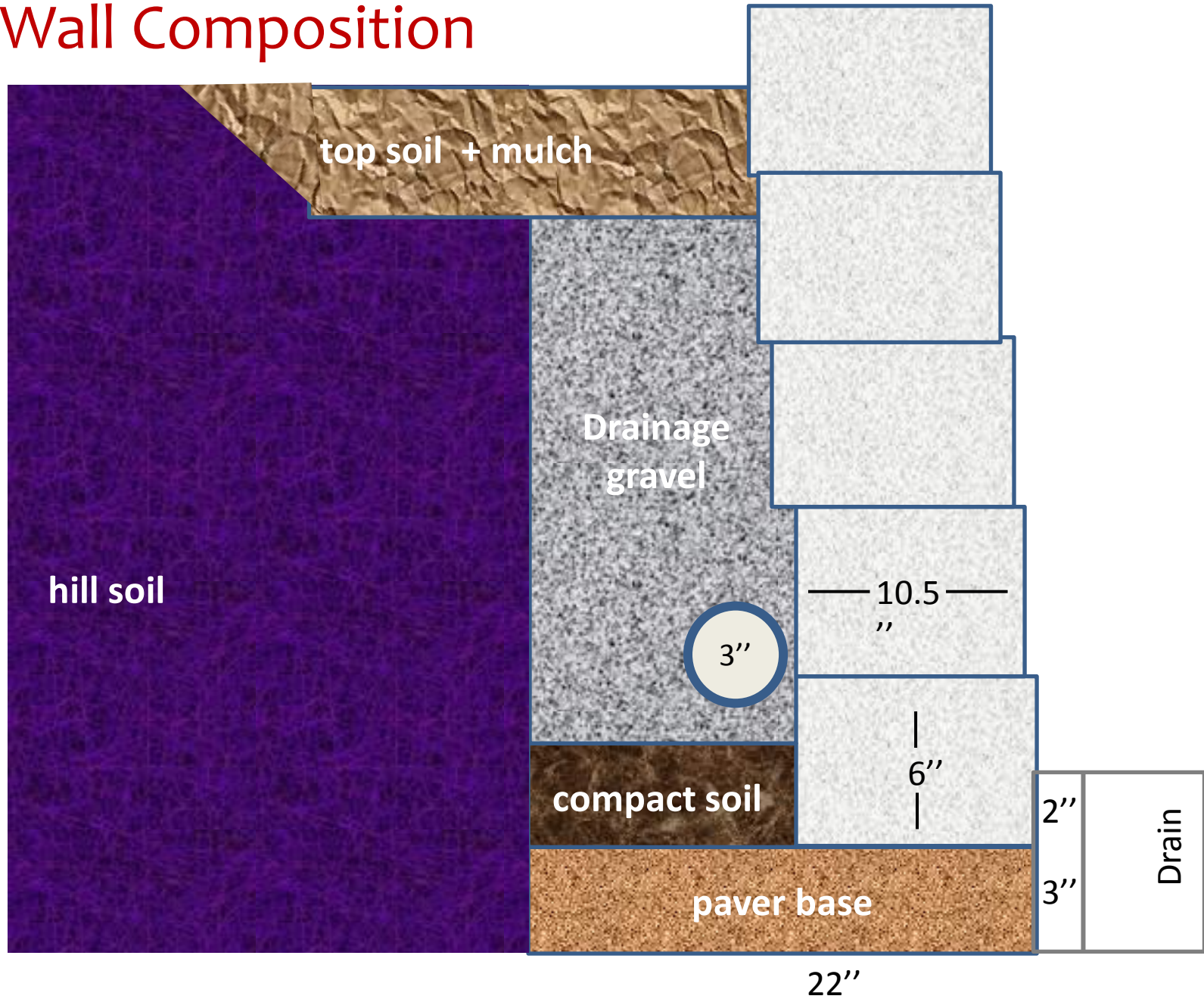


Drainage Gravel 12"x 14"



Compress Dirt & Rock

# Wall Composition



# Hill Jute Erosion Control Netting





# Some Core Suppliers



4 in. x 11.75 in. x 6.75 in. Pewter Concrete Retaining Wall Block

★★★★★ (188) [Write a Review](#) [Questions & Answers \(154\)](#)

- Self-aligning rear lip makes proper setback automatic
- Trapezoidal shape easily forms concave, convex or straight walls
- Split-face technology shows the veining and definition of colors



**\$1<sup>97</sup>** /each  
Buy 200 or more **\$1.77** /each



1,100 lb. 3/4 in. Gravel/Crushed Rock

★★★★★ (60) [Write a Review](#) [Questions & Answers \(59\)](#)

- Each bag weights roughly 1,000 - 1,200 lbs.
- Designed to be used for back fill and ground cover
- Gravel/crushed rock and be added when mixing concrete

Model # 479497    Internet #100318376    Store SKU #479497



SAKRETE >

0.5 cu. ft. Step 1 Patio Paver Base

★★★★★ (32) [Write a Review](#) [Questions & Answers \(54\)](#)

- 1 bag covers 0.5 cu. ft.
- Engineered to prevents cracking in colder climates
- Creates a coarse stone base that improves drainage

Model # 40100317    Internet #205153034    Store SKU #1000052246



3 in. x 10 ft. Perforated Corex Drain Pipe

★★★★★ (6) [Write a Review](#) [Questions & Answers \(3\)](#)

**\$7<sup>97</sup>** /each

Model # 03010010    Internet #100576671    Store SKU #418051    Store SO SKU #1000675101

# Materials Budget Estimate

Materials	Quantity	Cost/Unit	Total
Bricks	90	\$4.20	\$378.00
Wall caps	45	\$1.00	\$45.00
Drainage Pipe	3	\$10.34	\$31.02
Drain Sleeve	1	\$20.00	\$20.00
Pipe Connectors	2	\$2.50	\$5.00
Paver base gravel	11	\$3.33	\$36.63
Drainage gravel	4	\$25.00	\$100.00
Top soil	1	\$150.00	\$150.00
Glue Cement	3	\$7.00	\$21.00
Jute net erosion control	1	\$90.00	\$90.00
Transporation	1	\$99.00	\$99.00
			<u>\$975.65</u>

# They Lived Happily Ever After







