Foster's Ridge Channel Bank Stabilization

Conroe, TX



Foster's Ridge Channel Bank Stabilization

TYPE OF PROJECT	YEAR OF CONSTRUCTION	CLIENT	CONTRACTOR	DESIGNER
Reinforced Soil Walls And Slope Reinforcement	**2025**	**Montgomery County Municipal Utility District No. 139**	**GageCo Incorporated**	**Falkofske Engineering**

PROD. RELATED
TerraMesh (240)

Challenge

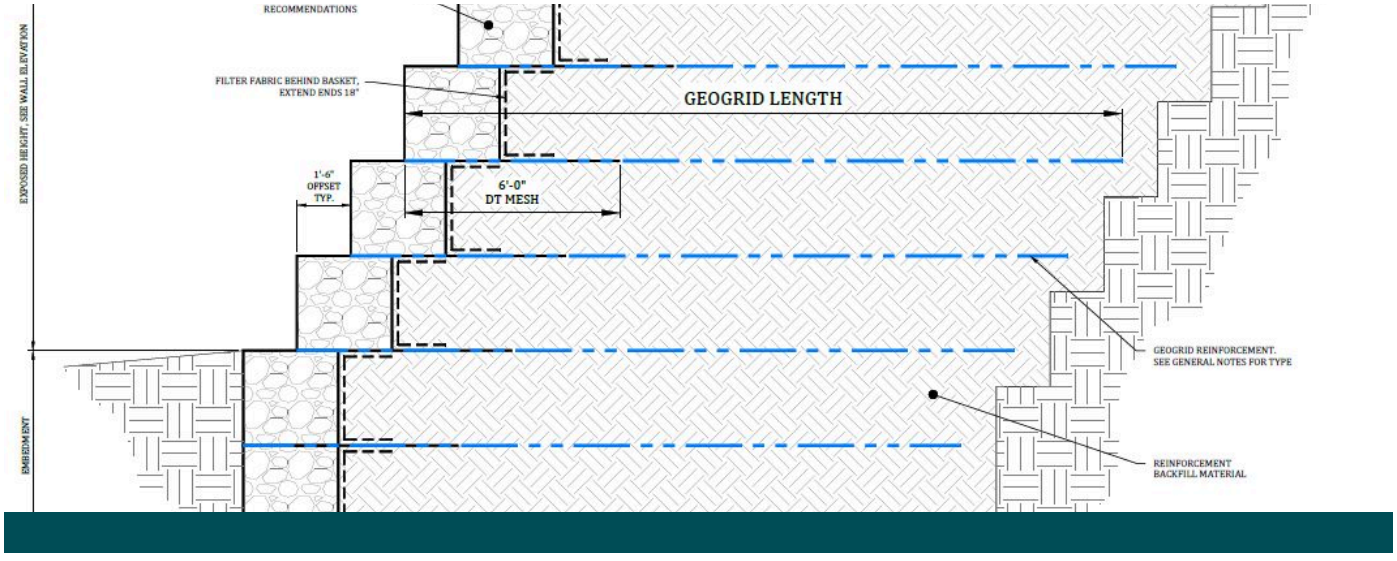
Foster's Ridge is a residential development in Conroe, TX. Behind the development runs a very steep channel that continued to erode with every rainfall event, encroaching on the backyards of the residents. A solution was needed to protect the side of the bank of the channel nearest to the development from the rapid erosion that was occurring. Before construction, there was no solution to armor the bank.





Solution

To protect the bank from further erosion, Maccaferri's Terramesh rock-faced MSE solution was chosen. The bank was too steep for an erosion control mat to be effective, so it was determined that an MSE wall must be constructed. Compared to a welded wire facing MSE system, the engineer concluded that Terramesh would be a more economical and readily available alternative. This MSE retaining wall measures 264 feet in length, 24 feet in height, and has a total face area of 6,336 square feet. The geogrid that sits between each Terramesh basket is 20 feet in length. The first two courses of Terramesh baskets are buried below grade to provide adequate embedment depth for the wall and prevent scour along the wall face. Due to the site requirements and conditions, Terramesh's double twist allows for flexibility that withstands differential settlement.



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