EROSION CONTROL

Products: Marine Mattress, Marine Tube, Geotextitles, BioMac

Problem
The jobsite is located on the North Center coastline of San Juan Puerto Rico. This location is the main access road to Old San Juan, which is the oldest settlement within Puerto Rico and the historic colonial section of the city of San Juan.

Heavy wave action has been eroding for the past decade the bottom of the slope creating a significant landslide that bring down a traffic lane including a side walk. This 2 in 1 slope had 90’ tall bringing down many metric tons of sand and clay. This road and sidewalk is used by many tourist that visit Old San Juan and most of the Government agencies and local residents of the old city.

Solution:
The job was awarded after three years of intensive planning with the Corps of Engineers, local agencies and the Department of Natural Resources. To stop the continued erosion, 132 (10 x 5 x 1 & 8 x 5 x 1) Marine Mattress. A 30’ circumference by 50’ and a 30’ circumference by 125’ Marine Tube were used as well.

The solution for the erosion, the design and products were going to be the standard and used for all other coastal applications around the Island. The Jacksonville USACE office required that the material used to fill the MacTubes and stones for the Marine Mattresses had to be from the same environment. Beach erosion has been controlled. The second phase of the job is the installation of steel sheet piles on the top portion of the slope for the reconstruction of the sidewalk and road lane.

Client:
Puerto Rico Highway Transportation Agency
Main contractor:
Del Valle Group
Designer:
Puerto Rico Highway Transportation Agency
Products used:
Marine Mattress, Marine Tube, Geotextitles, BioMac
Date of construction
March 2015 - Present
The filling of the first tube

Coastal Protection Design

**NOTE**
THE DOUBLE NET EROSION CONTROL BLANKET 72% STRAW AND 30% COCONUT FIBER SHALL BE CONSIDERED A SUBSIDIARY SUBCONTRACT AND ITS COST INCLUDED IN THE SEEDING WITH MULCH CONTRACT ITEM

**TUBE OR BAG PROTECTION CONCEPT**