

PROJECT PROFILE



Project Basics

Project Name: Paradise Island Golf Course Storm Water Basin
Installation Date: April, 2013
Product Type: Western Excelsior Xtreme Armor System™ (XAS) utilizing PP5-Xtreme with Percussion Driven Anchors (PDAs)
Project Location: Paradise Island, Nassau, Bahamas

Project Overview

The steep banks of the storm water retention basin separating Paradise Island Golf Course and a row of high-dollar homes were exposed and susceptible to erosion and slumping. For the golf course managers and the nearby property owners, protecting the steep slopes from erosion and offering a visually pleasing solution were top priorities. As the site was exposed to severe tropical storms, wave attack, wind and rain, the performance of the system was critical. However, with the potential for wildlife and foot traffic, stability of the matrix was also key. The project planners turned to XAS for a solution that provided stability, aesthetics, and confidence.

Installation

Xtreme Armor System was installed on the steep slopes and anchored with stainless steel PDAs. Additionally, the system was fastened to the upstream, concrete retaining wall and overlaid with riprap at the toe. The combination of approaches minimizes the visibility of the hard armor and rigid boundaries while maintaining high performance. After the XAS system installation, the system was capped with soil and vegetated with sod.

Performance

The woven nature of the HPTRM along with the established sod created a high-performance system with reduced wildlife concerns, overburden mass, and improved natural appearance. The Xtreme Armor System was installed and finished in minimal time and had over 50% cost savings over a rock design. The XAS offered protection against the open ocean weather, and provided the golf course patrons with the green slopes and the caribbean blue skies they anticipate.



Project slope prior to installation (top), HPTRM placed on slope surface, pinned and anchored (middle). XAS fastened to the retaining wall to prevent flow from circumventing installation (bottom).

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