

MONTE DI VERSAILLES MINGLANILLA, CEBU CITY, REGION VII, PHILIPPINES

Seawalls and Shoreline Structures

Problem

Paramount Property Ventures Inc., one of Cebu's finest and reputable names in property development, constructed a nine hectares modern and Italian-inspired beachfront community along the coast of Tulay in Fonte Di Versailles, Minglanilla, Cebu City. Philippines.

The shoreline of Fonte Di Versailles is fronting the island of Bohol, and was found to be prone to scouring and beach erosion due to waves, storm surges, and tidal changes. A coastal protection system to protect and maintain the beachfront of the community was urgently needed.

Solution

The owner (Paramount) agreed that a coastal defense retaining wall structure made was needed. In this, Maccaferri engineers recommended a gabion gravity wall with scouring protection using Reno mattresses. The wall system was accepted due to its flexibility, drainage capability, ease of installation, structural integrity, economy, and its ability to blend perfectly with the surrounding.

The great flexibility of gabions allows them to be placed even on sandy soils as they tolerate certain amount of deformation. Also, the porous structure and rough surface of gabions help in creating a 'wave-absorbing' mechanism, thereby reducing impact of waves onto the wall system.

Client: Paramount Property Ventures Inc.

Designer / Consultant: Paramount Property Ventures Inc.

Contractor: Paramount Property Ventures Inc.

Products used (Qty.)

- Gabion	3,600 cu.m.
- Reno Mattress	700 cu.m.
- MacTex Non-woven Geotextile	8,800 sq.m.

Date of construction: 08/2010 - 10/2010



Before Construction



During Construction



Near Completion



Near Completion



Near Completion