

## PRACHUABKIRIKHAN BAY RENOVATION KUIBURI DISTRICT, PRACHUABKIRIKHAN PROVINCE, THAILAND

ENVIROMENTAL /HYDRAULIC & EROSION CONTROL /SLOPE PROTECTION/  
**Product:** PVC Gabion & PVC Reno Mattress

### Problem

One of Prachuabkirikhan's main tourist attraction is the beautiful bay located at the southern part of Thailand. Despite having the lowest rainfalls in Thailand, the shoreline has been severely eroded by the strong sea wave from the Gulf of Thailand. Large cracks were observed on the mian road networks along the shoreline since 2006. Some parts of the road embankment have started to show slip circle failure. Approximately 500m length of the most critical road section was identified by the client which needed immediate attention. The proposed structure must be able to withstand marine condition (salt water environment) and severe atmospheric condition.

### Solution

Maccaferri was approached by the client to provide the most suitable solution to prevent further deterioration of the shoreline. After careful studies, a 4m high gravity wall using Maccaferri PVC coated gabion and 12m length scour apron using Maccaferri PVC coated Reno Mattress was proposed. It is a simple and durable structure where the gravity wall acts as embankment support and the Reno Mattress and filter fabric at the back of the Reno Mattress prevents erosion. Maccaferri follow a strict specification in order to guarantee for long lasting of the structure against marine and salt water environment and the ageing action of ultraviolet rays and heat. Concrete steps were constructed on top of the gabion box to facilitate beach-goers to get to the beach.

Client name:

PUBLIC WORKS DEPARTMENT, THAILAND

Main contractor name:

KUI BURI SERVICES LTD., PART

Consultant:

PUBLIC WORKS DEPARTMENT, THAILAND

Product used:

2,342 NUMBERS - GABION

1,513 NUMBERS - RENO MATTRESS

Construction info

Construction date: MARCH 2007

Construction end: SEPTEMBER 2007



Before construction

Date: March 2007



During construction

Date: May 2007

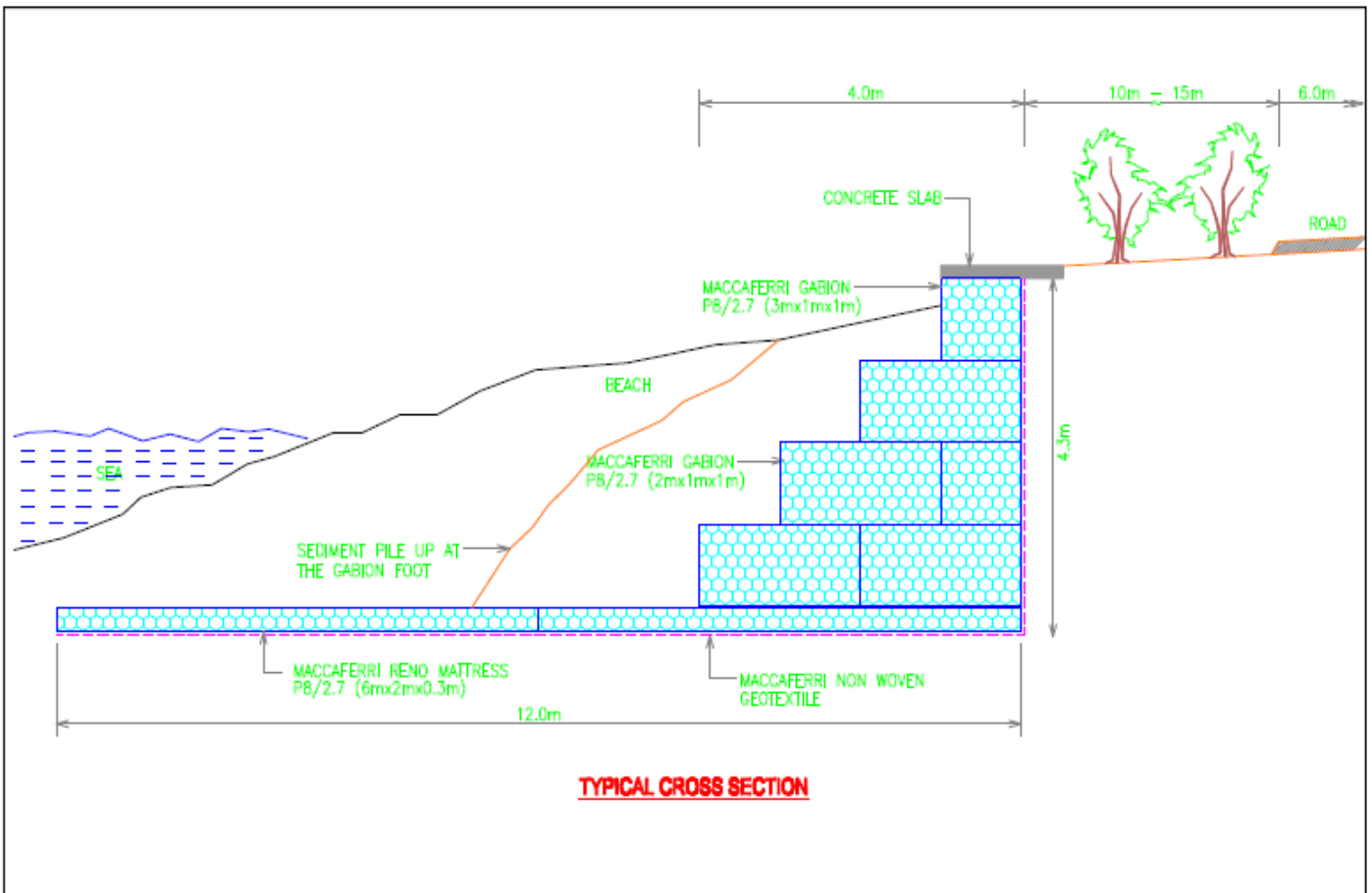


During construction

Date: May 2007



Date: Sept 2007



		(Co. No. 20744-0)		Designed By	Date	Project Title	Drawing Title
		MACCAFERRI (MALAYSIA) SDN. BHD.		Drawn By	Date	<b>PRACHUKORNGHAI BAY RENOVATION PROJECT THAILAND</b>	<b>MACCAFERRI GABION WALL - Typical Cross Section-</b>
		Unit 511, Block G, Phileo Damansara 1, 46350 Petaling Jaya, Selangor Darul Ehsan, Malaysia		Approved	Date	Client/Developer	Scale: NO TO SCALE
		Tel: (+60) 3 7957 8330 Fax: (+60) 3 7957 9080 E-mail: mm@maccaferri.com					Project No
							Sheet No
							Revision

Project section

## Maccaferri Asia

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