

THE BASECO 10 HECTARE RECLAMATION PROJECT MANILA, PHILIPPINES

ENVIRONMENTAL / GEOTECHNICAL / SOIL REINFORCEMENT RETAINING WALLS / SLOPE PROTECTION

Product: MacTube, & MacTex MXC, MacTex WR & Gabion

Problem

The location of reclamation of land was proposed near Pasig River in Manila Bay for future housing development especially for poor people living in the area.

The foundation consist of soft soil and the height of the embankment is proposed to be 2m from the foundation level. The structure must also withstand the wave attack from Manila bay. Since the perimeter of the proposed reclamation to big, an economical and reliable structure is required .

Solution

Geotextile tube was proposed for this project because they are commonly used for river bank/shoreline slope protection against erosion due to its superior mechanical and physical characteristic to perform filtration and drainage functions. The installation of MacTube is cheaper and easier compared to conventional method because in most cases the existing soil from the site can be used to fill the tube. MacTube are also designed as river training and break water structures because of its ability to absorb high incoming energy

The Maccaferri MacTube composed of high strength woven polyester or high strength woven polypropylene geotextile with 100% UV stabilized yarn with high resistance against installation damage and puncture damage.

MacTube Advantage Compared to Conventional Method:

- Saving riprap / boulder costs
- Using local materials like sand, instead of concrete.
- Easy to build, operated by non-specific equipment.

Client name:

PHILIPPINE RECLAMATION AUTHORITY

Contractor name:

F.F CRUZ,. INC.

Consultant:

PHILIPPINE RECLAMATION AUTHORITY

Product used:

MACTUBE MT15S - 1200 linear meter
MACTEX WR 12S - 16400m2
MACTEX MXC 90 - 7800m2
MACTEX MXC 110 - 3400m2
GABION - 950 numbers

Construction info

Construction Date :	APRIL 2008
Completion Date :	ON GOING



Excavation

Date: April 2008



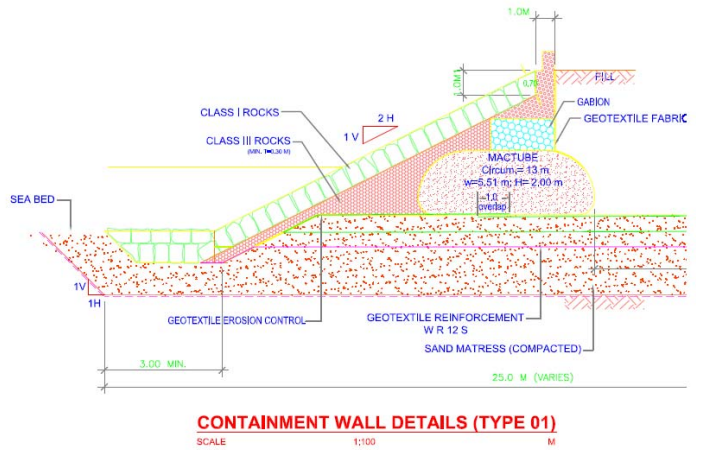
MacTex Installation

Date: April 2008



MacTube Installation

Date: April 2008



During Construction

Date: April 2008



Completed Tube

Maccaferri Asia

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