MACCAFERRI

CASE HISTORY

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HYDRAULIC PROTECTION-RSW-GJIROKASTER-TEPELENE ROAD

TEPELENE, ALBANIA, ALBANIA

Reinforced Soil Walls and Slope Reinforcement

Problem

The river skirting the Gjirokaster-Tepelene road scoured ,along a curve, the toe of the slope causing the sliding of this one. The land sliding was made worse by the infiltrations due to the heavy rainfalls.
The final result was the slope failure that affected the upper road bringing the partial interruption of the traffic. The foreseen solution had to be constructed in a short period of time and had to ensure the stability of the slope.
Maccaferri Soil Reinforcement structure with Terramesh System and Green Terramsh were being proposed.

Solution

The adopted Maccaferri Solution is characterized at the bottom by Terramesh System and in the upper part by the Green Terramesh up to a total height of 25 m.
The choice to use Terramesh System with Mattresses at the bottom the structure was considered in order to save it from the river flow erosion.
The Green Terramesh in the upper part was used due to the environmental friendliness and ability to vegetate plants.
It’s to be underline that to reach up the stability of a structure of this dimensions and in this environmental conditions the Paralink 300 geogrid was inserted in all the layers during the construction.
Moreover along the cut of the slope the drainage com- posite 1B1 was installed to guarantee the drainage of the rainfalls.

Client: J&P AVAX
Designer / Consultant: BONIFICA Spa
Contractor: J&P AVAX
Products used (Qty.)

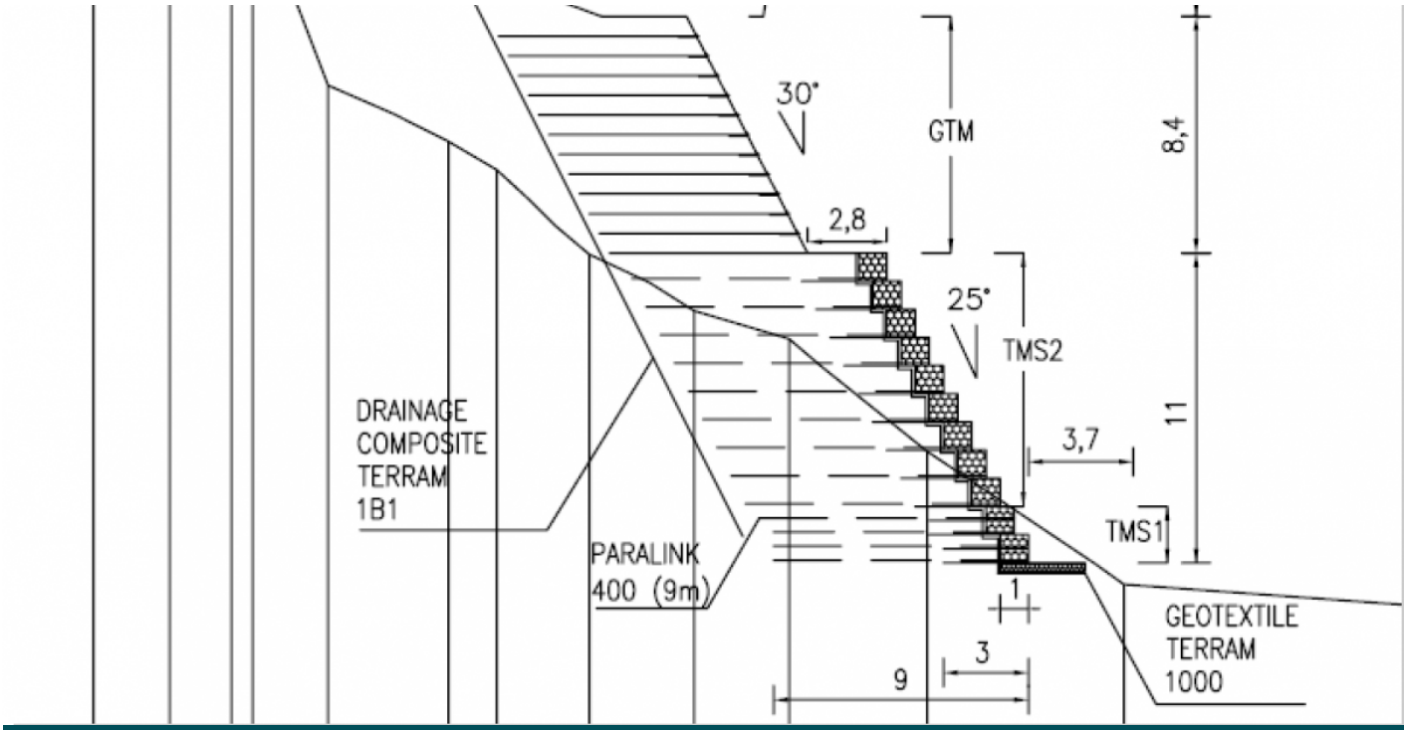
- Terramesh ---
- Green Terramesh ---
- ParaLink ---
- Reno Mattress ---

Date of construction: 06/2008 - 09/2008

during construction

during construction

after construction



Cross section

Maccaferri Balkans Sh. P. k.
Autostrada DR-TR; KM 6, SH2, Xhafzotaj, Durrës, Albania

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