

**TIRANA ELBASAN HIGHWAY**  
**ELBASAN, ELBASAN, ALBANIA****Reinforced Soil Walls and Slope Reinforcement****Problem**

The Tirana-Elbasan Highway is a four-lane highway in central Albania and part of the A3 motorway opened to traffic on 16 June 2013, and completed in the summer of 2019. It covers the distance between the cities of Tirana and Elbasan in the shortest way possible and its total length is 16 kilometres. The project faced many technical challenges as the topography of the route is such that it will require the construction of tunnels, bridges, embankments. Numerous overpasses, underpasses and viaducts will also need to be built.

The client wanted to reach the design level in the entrance of the tunnel and decided to adopt a mixed RSS solution (wire mesh+PET geogrids) as main type of retaining solution for this project.

**Solution**

This project included different types of reinforced soil structures with gabions and mattresses for river protection and Green terramesh & Terramesh system.

The design and solution proposed by Maccaferri were applied in different locations through out the whole project depending on the site and geotechnical conditions.

**Client:** COPRI - AKTOR**Designer / Consultant:** AKTOR-MACCAFERRI**Contractor:** COPRI - AKTOR**Products used (Qty.)**

- Terramesh	111
- Gabions	111
- Terramesh	111
- Reno Mattress Plus	111
- MonoAxial GeoGrids	111
- MonoAxial GeoGrids	111

**Date of construction:** 06/2013 - 08/2019[Google Maps](#)[Google Earth](#)

during construction



after construction

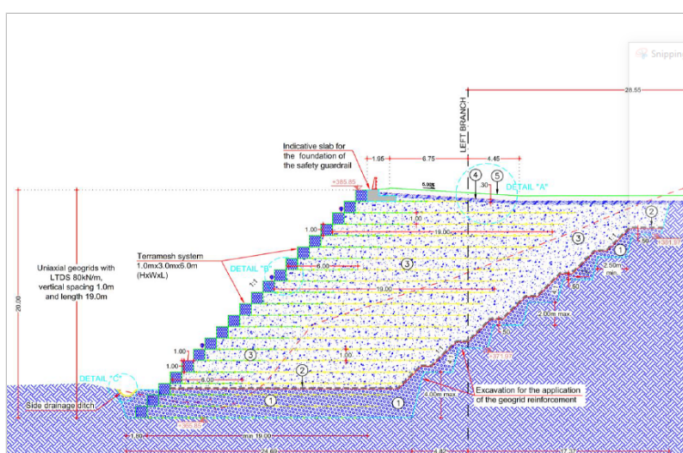




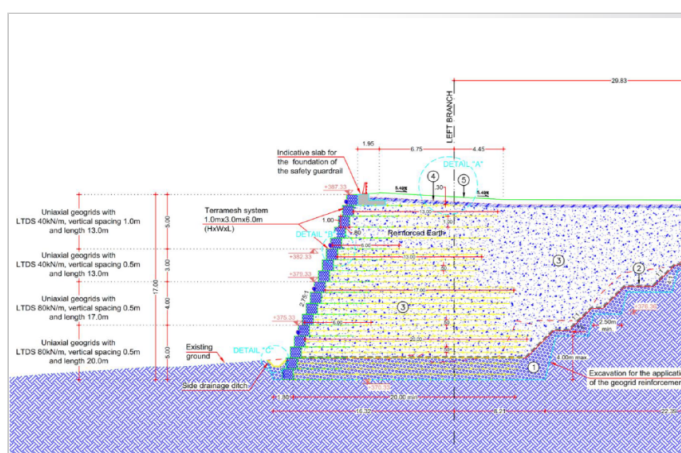
Green Terramesh



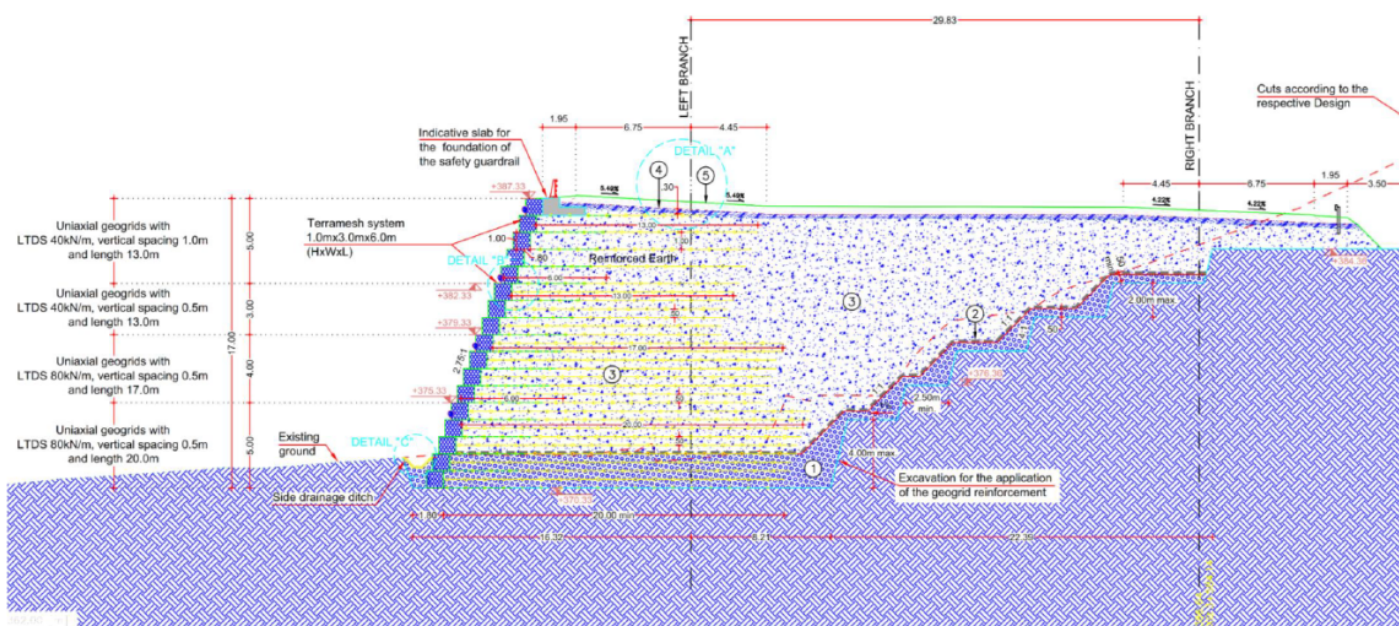
Gabions



Cross section



Cross section



Cross section