Problem

The Highways Department for the Abruzzo Region tendered a contract for the construction works to eliminate the sharp bends in the stretch of road between the junction with the Remontello Provincial Highway and the town of Loreto Aprutino (Pescara). These works affected a section of State Highway 151 “Valle del Tavo”.

Solution

The project included the horizontal and vertical remodelling of the road alignment, with widening of several stretches. In order to minimise the environmental impact of the works, the designer decided to adopt reinforced soil technology using Terramesh. The lowest sections were formed by a front face of gabions whilst, for the upper sections, a facing which could be covered with vegetation was preferred.

In order to minimise the costs, the main reinforcement elements high-strength used Paralink, a polyester geogrid covered with polyethylene. The ultimate strengths of the geogrids used for this project were 400 and 800 kN/m and they were placed in a staggered manner as specified in the design.
Design documents

During construction

After construction