RETAINING SOIL STRUCTURES

Product: MacRes®

Problem
Retaining walls facility No. 238-00 and 239-00 are located in the Sučany district. Retaining wall 238-00 forms the right side of the road embankment and 239-00 forms the left side of the road embankment—object 142-00. The access road to a local wood company, which is led by a bridge over the highway on a high embankment. This access road requires a wide embankment, which would at right side collide with motorway 101-00 and on the left side would collide with obj. 143-00.

Solution
Retaining wall 238-00 on the right side has length of 18.70 m and retaining wall 239-00 on the left side has length of 66.70 m. Height of retaining walls is variable with a maximum height of 9.0 m. Retaining walls are formed by system MacRes—reinforced soil structure with precast concrete facing panels reinforced with polymer geostrips. The walls are partly back-to-back reinforced and partly simple reinforced with a face inclination of 90°. On the top of the wall is placed a special coping which holds the safety barrier. Retaining walls form wingwalls of the bridge abutment 212-00. The bridge abutment is formed by three reinforced concrete ribs, the space between the ribs is also filled with the MacRes system.

Client:
NATIONAL MOTORWAY AUTHORITY

Main contractor name:
VÁHOSTAV-SK, a.s.

Consultant:
DOPRAVOPROJEKT a.s.

Used product:
MacRes® - face area: 650m²

Construction info:
Construction start date: November 2012
Construction end date: October 2014
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MACCAFERRI CENTRAL EUROPE s.r.o. has implemented and applies a quality management system pursuant to the standard EN ISO 9001:2008 certified by TSÚS CERTICOM.