

## D1 DUBNÁ SKALA-TURANY, SO 238-00, 239-00 RETAINING WALL SLOVAKIA, SUČANY

### 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: 650m<sup>2</sup>

Construction info:

Construction start date: November 2012

Construction end date: October 2014



Start of construction:

Date: November 2012



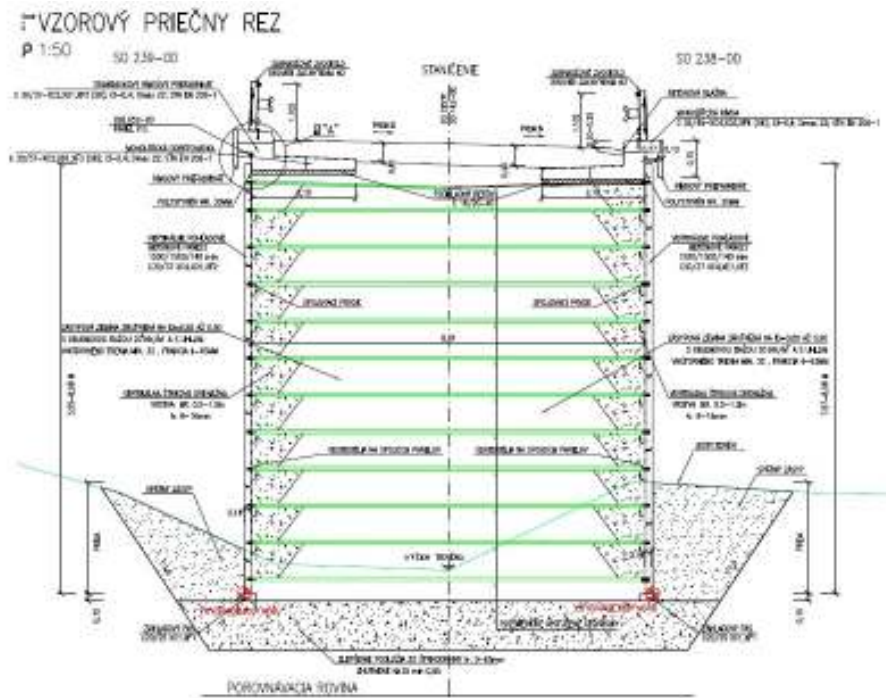
Start of construction:

Date: November 2012



During construction

Date: May 2013



Typical cross-section



After construction

Date: June 2014