

## K36 Lammschlucht Gorge, Oberlammschlucht Retaining Wall

### Client

Lucerne Canton (vif – Transport and Infrastructure Department), Building Section

### Consultant

IUB Engineering AG

### Construction period

2010

### Construction costs

CHF 200,000

### Scope of services

- Implementation project
- Statics
- Site supervision

### Description

A spontaneous landslide occurred on 28.08.10 causing damage to the forest and the retaining wall on the valley side (incl. the foundations). The Oberlammschlucht retaining wall was thereby hollowed out. It provides support for the K36 cantonal road (Schüpheim - Flüfli) on the valley side to the Lammschlucht Gorge. To secure the retaining structure with respect to the road and the existing embankment a deep-anchored retaining wall was designed. The anchoring depth of the micropiles and anchors was selected for penetration through several deep fissures of the rock. The fissures will be connected through the ejection of the micropiles and anchors.

### Main technical data

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|---------------------|-------------------|
| - Concrete          | 45 m <sup>3</sup> |
| - Swiss-Gewi anchor | 120 m             |

