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K36 Lammschlucht Gorge, Unter Tänndli Retaining Wall

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

Consultant
IUB Engineering AG in consortium

Construction period
2010

Construction costs
CHF 440,000

Scope of services
- Preliminary project
- Construction project
- Tendering
- Implementation project
- Local site supervision

Description
The Unter-Tänndli retaining structure on the valley side is in poor condition and tilts. It supports the K36 cantonal road (Schüpfheim - Flühli) on the valley side coming up from the gorge. The retaining wall was probably erected in 1956 when the road was widened. An open bored pile wall consisting of reinforced bore piles and top plates was installed to secure the retaining wall on the valley side with respect to the road and the existing embankment. The anchoring depth of the bored piles was selected to ensure complete anchoring in the deep rock. The bored piles are monolithically connected with the top plates. The crash barrier was mounted onto the guide wall.

Main technical data

- Bored piles d=0.9-1.0 m	220 m
- Top plates	50 m
- Concrete top plates	75 m^3