

# Road Tunnel

## Uetlibergtunnel

Zurich, Switzerland

### Diebis Soft Ground Section

#### Object

National highway tunnel, new construction

#### Construction Costs

Total costs Uetliberg tunnel: CHF 1'120 million

#### Project Schedule

Planning: since 1981

Construction duration: March 2001- February 2002

#### Project Description

2-tube tunnel: each tube with 2 traffic lanes and one shoulder.

Length Diebis SGS: approx. 240 m

Diameter: 12.70-14.70 m

Cross section: ca. 148 m<sup>2</sup>

Slope: 1.6 % (downward)

#### Driving Method

Driven downward by core boring with steel installation. Some large-scale support measures will be necessary.

#### Geology

A base moraine overlaid with slope wash. The entire tunnel cross section is in ground water.

#### Construction Details

- The excavation support consists of steel segments and 25 cm steel-fibre reinforced shotcrete layers
- Waterproofing with plastic membrane
- Cast concrete final lining

#### Our Services

- Complete detail and construction design, tender documents of the underground works
- Partial design of the cut-and-cover sections
- On-site construction management for underground construction
- Support project management of client

#### Client

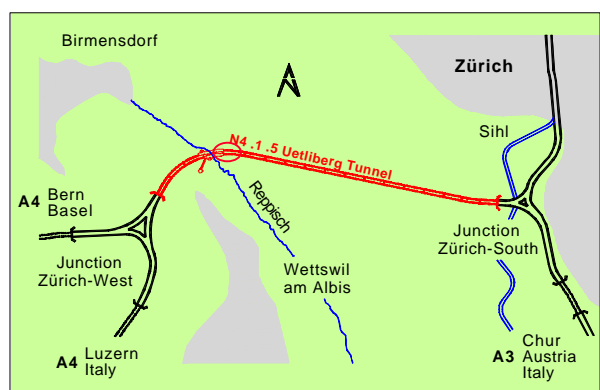
Tiefbauamt des Kantons Zürich, Mr. O. Schnell



Core boring with steel installation



Reppisch valley excavation (Portal Diebis stand June 01)



Site plan

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