

Infrastructure Gallery Uetlibergtunnel

Zurich, Switzerland

Eichholz ventilation shaft and flue

Object

National highway tunnel, new construction

Construction Costs

Total costs Uetlibergtunnel: CHF 1'120 million

Project Schedule

Planning: since 1981
Construction duration: November 2001- April 2004

Project Description

| | |
|-------------------|---------------------------|
| Ventilation shaft | |
| Length: | approx. 60 m |
| Diameter: | 8.20 m |
| Cross section: | approx. 52 m ² |
| Ventilation flue | |
| Length: | approx. 40 m |
| Diameter: | 7.70 m |

Driving Method

The soil section is excavated using underpinning methods. The molasse section is lowered using drill and blast methods.

Geology

The soil section (21 m) is a moraine mixture consisting of silt, sand and gravel and includes molasse fragments. The molasse section (39 m) is located completely within upper fresh water molasse formations.

Construction Details

- The excavation support of the soil section consists of a reinforced concrete ring.
- The excavation support of the molasse section consists of reinforced shotcrete and rock bolts.

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

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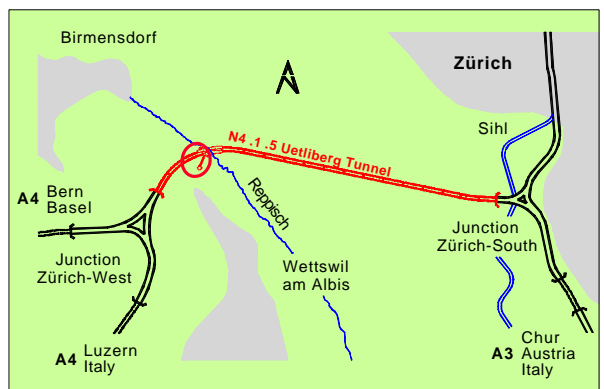
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Ventilation shaft and construction pit for chimney foundation



Shaft construction in soil section (underpinning)



Site plan

For further information:
www.uetlibergtunnel.ch

