

Road Tunnel Uetlibergtunnel

Zurich, Switzerland

Eichholz Molasse Section

Object

National highway tunnel, new construction

Construction Costs

Total costs Uetliberg tunnel: CHF 1'120 million

Project Schedule

Planning: since 1981
Construction duration: November 2002- April 2004

Project Description

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

Length Eichholz MS: approx. 500 m
Diameter: 12.70 - 14.70 m
Cross section: approx. 148 m²
Slope: 1.6 % (downward)

Driving Method

The tunnel will be driven by drill and blast, divided into crown, bench and invert

Geology

Flat bedded strata of upper fresh water molasse (Alternation of hard sandstone deposits and soft marl strata).

Max. overburden: approx. 70 m

Construction Details

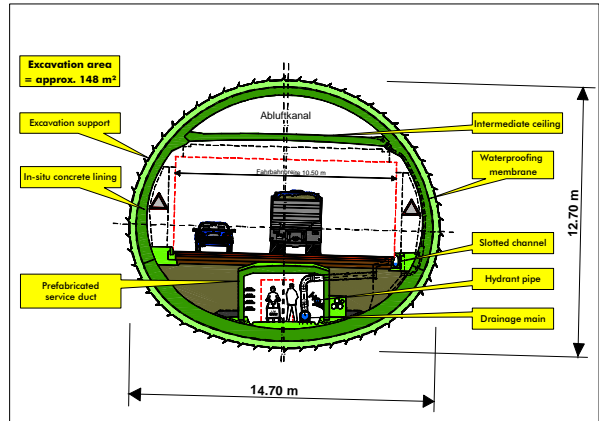
- The rock support is mesh-reinforced shotcrete and rock bolts
- Driven under the SBB-Landikon railway tunnel at a distance of approx. 7 m
- Driven under the material transport tunnel at a distance of approx. 3 m
- Waterproofing with plastic membrane
- Cast concrete final lining

Our Services

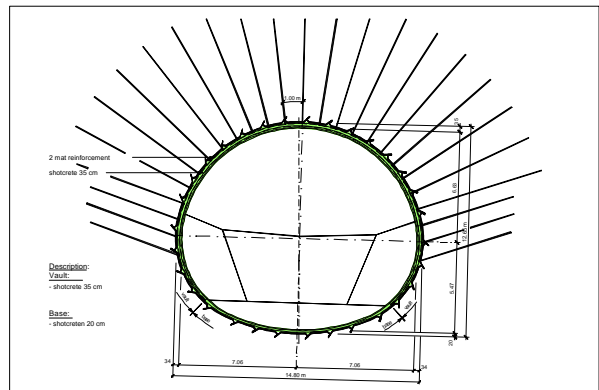
- Complete detail and construction design, tender documents of the underground works
- Partial design of the cut-and-cover sections
- On-site construction management for underground construction
- Support project management of client

Client

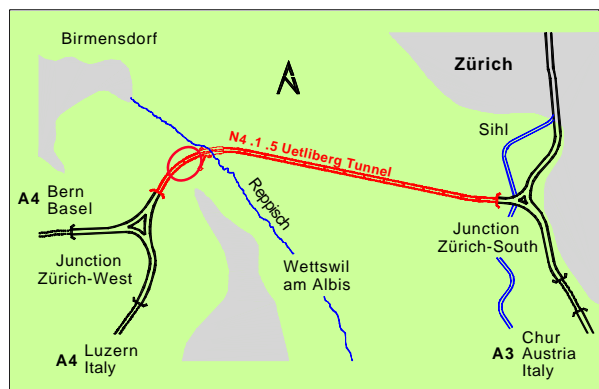
Tiefbauamt des Kantons Zürich, Mr. O. Schnell



Standard cross section



Cross section and support system



Site plan

For further information:

www.uetlibergtunnel.ch

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