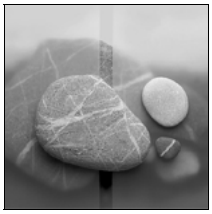
State of Vaud, Road Services, National Roads
A5 –Concise and La Lance Tunnels



Environment
Geology and Geotechnics
Civil Engineering
Waste and Contaminated Sites
Treatment Plants

www.csd.ch

Project description

A5 Highway Yverdon-Neuchâtel, Carrying out two highway tunnels as part of a general project approved by the Federal Council on the 14th February 1996.

Concise Tunnel

Tube Jura 1410 m
Tube Lake 1340 m

La Lance Tunnel

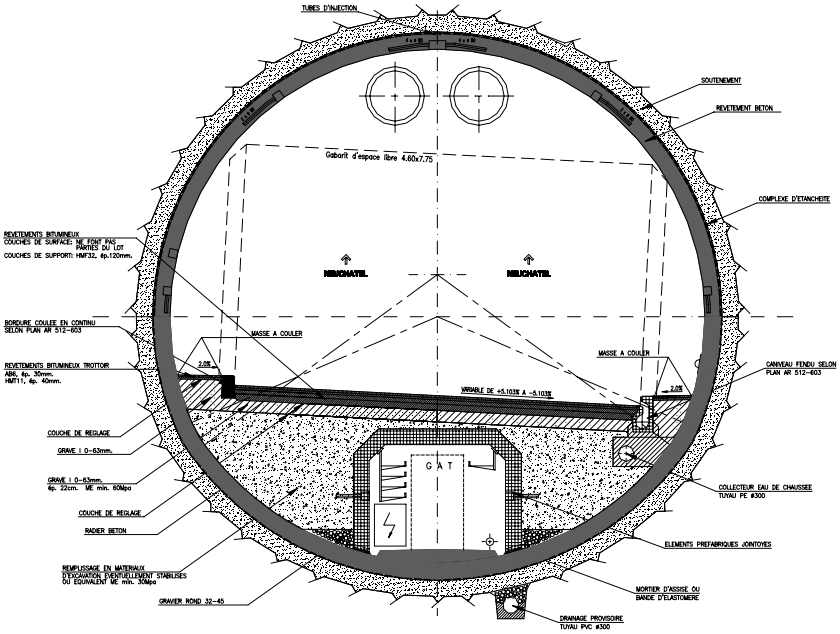
Tube Jura 334 m
Tube Lake 315 m

- Location : Concise
- Reference : Mr. P. Graber
- Duration : 1997-2005
- Cost of the project : 120 mios CHF
- Fees : 5.6 mios CHF

Highlights

- Realized in limestones (Portlandien, Valanginien, higher Hauterivien), the works are quasi circular, (interior ray of 5.10 m), this in order to allow the installation of a seal, who takes water pressures higher than 4 bars.
- On approximately 90 m, the tunnels of Concise are excavated in loose grounds, under the phreatic table, under protection of a jetting vault umbrella and a rabatment.

Our Services

- Services of civil, and VRD engineer are carried out by a study team controlled by CSD.
- CSD assumes, within the framework of this project, 60% of the services of the civil engineer. Services of local direction are also assume by the group controlled by CSD.
- Management of the Quality Plan.
- Geology, geotechnics, special excavation work, civil engineering (partial), impact study (partial), sensor and monitoring of sources and phreatic table. Environmental monitoring of underground water and of surface water.

Profile type