



BASIC TUNNEL OF LÖTSCHBERG

STEG/RARON (CH)

EMPLOYER

BLS AlpTransit AG, CH-3601 Thun

DESIGNER

Gruppo d'ingegneri IGWS, CH-3900 Brig

TIME OF COMPLETION

10.2000 – 04.2006

CONTRACT SUM

CHF 600 Mio.

EXECUTION OF THE WORK

ARGE MaTrans

CONSORTIUM PARTNERS

Marti Tunnel AG, CH-3302 Moosseedorf
Walter Gruppe, DE-86150 Augsburg
Porr AG, AT-1100 Wien
Balfour Beatty Ltd., UK-E14 5HU London

LEAD COMPANY AND TECHNICAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

COMMERCIAL LEAD

Porr AG, AT-1100 Wien

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SCOPE OF THE WORKS

Base tunnel (double-track railway tunnel NEAT) /
Lötschberg railway line

Principal advances:

- Access tunnel Steg and west tunnel
L= 8'925 m with a TBM
- Base tunnel west Raron - Lötschen
L= 4'600 m with drill and blast
- Base tunnel east Raron – Ferden
L= 10'005 m with TBM

Supplementary constructions

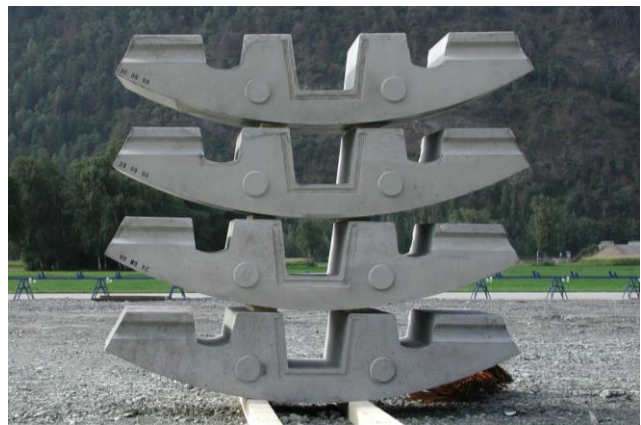
- Cross connections: 20 pieces, A= 18 m²
- Connecting caverns Lötschen
L= 296 m, V=21'700 m³, A= 64 - 75 m²
- Track change Lötschen West
L= 199 m + 82 m
- Operation center Lötschen West
L= 50 m, V= 12'000 m³
- Pre-cuts, retaining walls, bridge

ACTIVITIES

- TBM drive: Ø= 9.43 m
- Rock support with rock bolts, wire mesh, shotcrete, reinforcement beam
- Pipe umbrella excavation
L= 35 m, A= 92 - 104 m²
- D&B excavation: Rock support with rock bolts, wire mesh, shotcrete, steel arches
- Cast in place concrete lining

GEOLOGY

- Gneiss
- Granite



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