



CFF LINE 224 / LOT 3 NEUCHÂTEL - LA CHAUX-DE-FONDS (CH) NEUCHÂTEL

EMPLOYER

Swiss Federal Railways SBB,
Avenue de la Gare 43, CH-1003 Lausanne

DESIGNER

Joint Venture LNC
ATB + CVH + Lombardi
p.a. Monod Piguet + Associés SA
Avenue de Cour 32, CH-1007 Lausanne

TIME OF COMPLETION

06.2020 – 04.2022

CONTRACT SUM

CHF 56 Mio.

EXECUTION OF THE WORK

Consortium Marti NE-CF

CONSORTIUM PARTNERS

Marti Tunnel AG, CH-3302 Moosseedorf
Marti Travaux Spéciaux Neuchâtel SA, CH-2087 Cornaux

LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

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NEUCHÂTEL

SCOPE OF THE WORKS

CFF Line 224 / Lot 3 / Project No. 1148146

Neuchâtel – La Chaux-de-Fonds (CH)

Minimal renovation of the tunnels des Loges and du Mont-Sagne. Renewal of the tunnel Combe-Converters.

Construction of the Grandes-Crosettes coupling station.

ACTIVITIES

Main quantities:	LOG	MTS	CCO	Total
Excav. MUV:	23'000m ³	2'510m ³	10'200m ³	35'710m ³
Blade cuts:	2'500m ²	4'000m ²		
Shocrete:	16'700m ³	720m ³	2'880m ³	20'300m ³
Lattice girder:	50to	8to	55to	113to
Waterproofing:	7'500m ²	790m ²	1'720m ²	10'010m ²

Tunnel des Loges LOG, 3'259m:

- Collecting and sealing water inlets from the mountain.
- Demolishing of the existing masonry support; Section enlargement; Construction of a new shotcrete vault.
- Diamond blade cutting of existing rock for reprofiling
- Excavation and support works for 6 new logistics niches.
- Replacement of the cable channel and floor drain.
- Refurbishments works at the portals.

Tunnel du Mont-Sagne MTS, 1'352m:

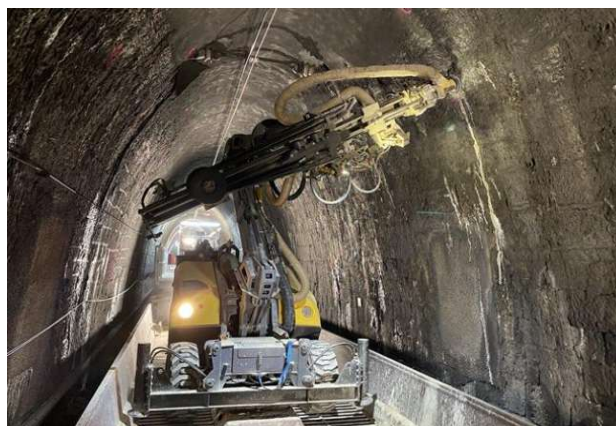
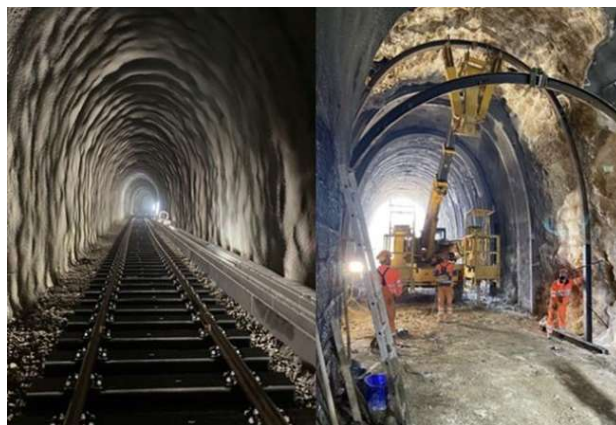
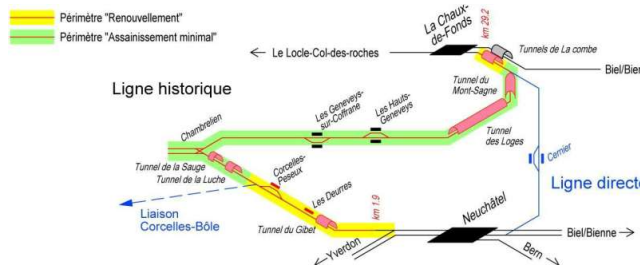
- Collecting and sealing water inlets from the mountain.
- Demolishing of the existing masonry support; Section enlargement; Construction of a new shotcrete vault.
- Diamond blade cutting of existion rock for reprofiling
- Replacement of the cable channel and floor drain.
- Refurbishments works at the portals.

Tunnel de Combe-Converters CCO, 254m:

- Collecting and sealing water inlets from the mountain.
- Excavation and support works for 5 new escape niches.
- Demolishing of the existing masonry support; Section enlargement; Construction of a new shotcrete vault.
- Replacement of the cable channel and floor drain.
- Refurbishments works at the portals.

GEOLOGY

The line crosses the Jura rocky chain. It is the result of a folding of the Mesozoic marl-limestone series. The limestone sections are fractured and karstic and are potential aquifers.



13.07.2023



Marti Tunnel AG

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