



# 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

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

## 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-Converts. Construction of the Grandes-Crosettes coupling station.

### ACTIVITIES

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

Tunnel des Loges LOG, 3'259m:

- Collecting and sealing water inlets from the mountain.
- Replacement of damaged masonry in the vault and facings with shotcrete.
- Milling works on the sub-profiles.
- Excavation and support works for 6 new logistics niches.
- Replacement of the cable channel and floor drain.
- Refurbishments works at the entry portals.

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

- Collecting and sealing water inlets from the mountain.
- Replacement of damaged masonry in the vault and facings with shotcrete.
- Milling works on the sub-profiles.
- Replacement of the cable channel and floor drain.
- Refurbishments works at the entry portals.

Tunnel de Combe-Converts CCO, 254m:

- Collecting and sealing water inlets from the mountain.
- Excavation and support works for 5 new escape niches.

Replacement of the entire length of the vault with an shotcrete cladding.

- Replacement of the cable channel and floor drain.
- Refurbishments works at the entry 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.



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**Marti Tunnel AG**

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