



GALLERIA VEDEGGIO-CASSARATE

LUGANO (CH)

EMPLOYER

Office of Civil Engineering of the Canton of Ticino,
CH-6500 Bellinzona

DESIGNER

Ingenieurgesellschaft DL-2010
Lombardi SA, CH-6648 Minusio

CONSTRUCTION PERIOD

06.2007 – 08.2010

CONTRACT SUM

CHF 70 Mio.

CONTRACTOR

Consorzio Marti Lugano

CONSORTIUM PARTNERS

Marti Tunnel AG, CH-3302 Moosseedorf
Mancini & Marti SA, CH-6500 Bellinzona

LEAD COMPANY – TECHNICAL AND COMMERCIAL LEAD

Marti Tunnel AG, CH-3302 Moosseedorf

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SCOPE OF THE WORKS

Lot 0211-G4

Bidirectional motorway tunnel, part of the luganese beltway system.

- Excavation of a tunnel of a length of 2'350 m and a section of 73 - 86 m²
- Ventilation shaft of a height of 98 m and a diameter of 4 m including an access gallery and a ventilation cavern
- Reinforcement of the section where the tunnel will cross the Ceneri railroad tunnel (NRLA)
- 4 enlargements for security stop (every 600 m) of a length of 41 m and a section of 156 m² each

ACTIVITIES

- Conventional rock excavation using a 3 arms jumbo; depending of the rock quality and other environmental reasons, excavation of the full or partial section
- The rock cover to the existing railroad Milano-Zürich being only 7 meters, the first phase was executed under the protection of a grouted pipe poling umbrella
- Rock support by means of shotcrete with fibers, rock bolts and/or steel sets.
- Internal lining membrane insulation and cast in place concrete
- Inserted ceiling for the final ventilation system and cast in place concrete for portal work

GEOLOGY

- Gneiss
- Chlorite schist with graphite layer



09.12.2014