

Highway Tunnel

Diez Highway Tunnel

Diez, Germany

Project

BIM Model elaboration and production of Detailed Formwork Drawings for the mined section of Diez Tunnel of the Highway B417 in Central Germany

Construction Cost

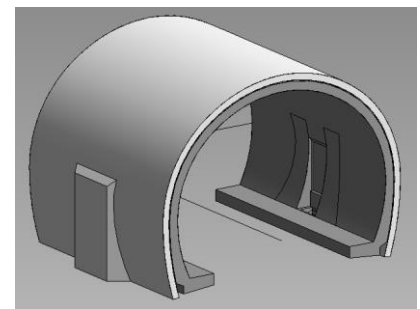
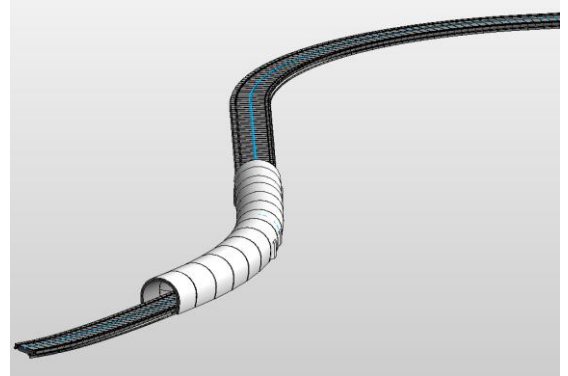
Total project's cost: approx. € 33 m.
Tunnel's cost: approx. € 26 m.

Project Schedule

Detailed Design (estimated): 2017 - 2019
Construction (estimated): 2017 - 2021

Project Description

- Highway tunnel
Tunnel's Total length: ~ 335 m
Underground Section: L=133,5 m
Open Section: L=201,0 m
Tunnel Section: 70 m²
Tunnel Roadway Width: 7,5 m
Excavation Method: Conventional Tunneling using the drill and blast method or mechanical excavators



Final Lining

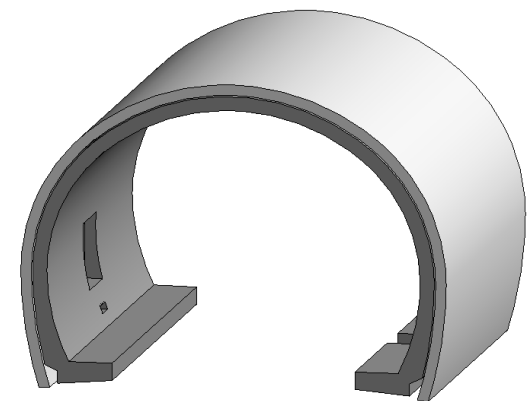
Reinforced concrete C30/37

Geology

Rock formations.

Our Services

- Elaboration of complete BIM Model of the tunnels' mined stretch final lining
- 3D Model of the tunnel's alignment
- Incorporation of dynamic tools in BIM Model in order to minimize the required time for design and update of the tunnel's geometrical characteristics
- Creation of BIM tools, simple as well as parametric "BIM family tools"
- Elaboration of a 2D BIM Model for the design of detailed formwork drawings via the 3D BIM Model
- Elaboration of an additional 3D BIM Model for the simulation of the tunnel highway alignment and the geometry in total. Model including the required construction materials
- Incorporation in the BIM Model of the surface layout for the optimized portals design
- Bill of Quantities (Materials – Works)
- Engineering and consultancy services for BIM Model
- Provision of an engineer in Munich for coordination and engineering/consultancy services



Client

EDR GmbH, Munich, Germany

