Gollachbrücken







SHORT DESCRIPTION

New replacements for three bridges as part of the bridge strengthening scheme for the Gollach Bridge

THE PROJECT

This project comprises construction of the new replacements for the three bridges BW 693a, BW 694b and BW 695c as part of the systematic bridge strengthening scheme for the Gollach Bridge.

These bridges are located on the A7 motorway for Fulda - Würzburg - Ulm on the section between the Gollhofen and Uffenheim-Langensteinach junctions, over a distance of 2.9 kilometres between the 693.000 and 695.9 kilometre points.

SERVICES IN DETAIL

Structure 693a

Structural system

- Longitudinal direction: Frame
- Cross-section: Sold slab as prefabricated parts with additional in-situ concrete
- Production method: Prefabricated parts, completed with additional elements

Main dimensions

- Span width: 33.085 m
- Clear width: 17.75 m
- Total width: 38.58 m
- Clear height: > 4.66 m
- Crossing angle: 144.50 gon
- Bridge surface area: 1071 m^2

Structure 694b

Structural system

- Longitudinal direction: Frame
- Cross-section: Sold slab as prefabricated parts with additional in-situ concrete
- Production method: Prefabricated parts, completed with additional elements

Main dimensions

- Span width: 18.45 m
- Clear width: 17.42 m
- Total width: 30.60 m
- Clear height: > 4.70 m
- Crossing angle: 96.20 gon
- Bridge surface area: 555 m^2

Structure 695c

Structural system

- Longitudinal direction: Frame
- Cross-section: Double-girdered prestressed concrete T-beam cross-section
- Production method: In-situ concrete on supporting structure

Main dimensions

- Span width: 46.50 m
- Clear width: 42.0 m
- Total width: 31.60 m
- Clear height: > 4.70 m
- Crossing angle: 100.00 gon
- Bridge surface area: 1446 m^2

CHALLENGES

The challenges faced during the project included efficient handling of the various traffic phases and routings, the complexity of the structural engineering, and the dimensions of the abutments. The tight schedule also made the project more difficult.

FACTS

Location	Gollhofen , Germany
Status	completed
Construction volume (value of our services)	11 M EUR
Start of construction	April 2017
Completion	December 2018
Contracting entity	Autobahndirektion Nordbayern, Dienststelle Würzburg
Project management	Implenia Construction GmbH, Niederlassung Süd
Concrete volume	7400 m^3
Reinforcement	1150 to

SERVICES

- Civil engineering
- Concrete construction
- Road transport infrastructure
- Structural engineering