

## 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<sup>2</sup>

### **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<sup>2</sup>

### **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<sup>2</sup>

## **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

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

## SERVICES

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



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<https://implenia.com/en/references/detail/ref/gollach-bridges/>

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