Nordkreuz–Karow







SHORT DESCRIPTION

Two-track expansion of the mainline railway between Nordkreuz and Berlin-Karow station.

THE PROJECT

The Berlin Nordkreuz–Karow construction stage of the ‘Stettin Railway’ comprises the 3.1-kilometre-long two-track expansion of the mainline railway between Nordkreuz and Berlin-Karow station. In the second construction phase, the joint venture made up of the railway construction group and Implenia is replacing a total of eight railway overpasses, overhauling the overhead lines, installing the electronic signalling technology, and providing active and passive noise protection.

As part of the second construction phase, the consortium consisting of the railway construction group and Implenia will renew a total of eight bridge structures, each with up to four superstructures, rebuild the overhead line systems, install the electronic signal box technology and provide active and passive noise protection.

SERVICES IN DETAIL

Various engineering methods are being used to construct the excavation pits and improve the condition of the building site, including sheet pile walls, bored piles, double-head anchors, jet grouting, underwater concrete, waterproofing injections and soil improvement. In order to ensure that railway services can continue to run, temporary bridges are being constructed and bypasses put in place so that the engineering structures can be created. In addition to this, excavation pits for moving work have to be constructed, framework structures moved, building shells created and concrete poured. The logistics of the construction process have been built around the line closures and railway operations.

CHALLENGES

- The second construction stage is being completed in 17 successive construction phases. With the logistical challenges posed by working during breaks in railway operations, temporary bridges must first be first constructed and a track bypass set up. Work can then begin on constructing the excavation pits and the moving operations, as well as the extensive earthworks and work on the tracks and overhead lines.
- The structures are built under the protection of the excavation pits. Notable challenges on this project include the need to consider the listed building status of Karow suburban railway station, and construction of the top frame as an arched shape (with a radius of approximately 27 metres), all while trying to work during the brief breaks in operation of the Berlin outer ring interchange area.

SUSTAINABILITY

The owner has set up an ecological construction monitoring body. In cooperation and coordination with this body, wide-reaching measures for protecting the local flora and fauna are being implemented.

FURTHER INFORMATION

- Technical management: DB Bahnbau Gruppe GmbH, DE-12489
- Commercial management: Implenia Civil Engineering GmbH, Berlin branch
- Civil engineering project management (Implenia): **berlin.ics@implenia.com**

FACTS

Location	Berlin , Germany
Status	completed
Construction volume (value of our services)	34 M EUR
Start of construction	December 2016
Completion	September 2022
Contracting entity	DB Netz AG, Regionalbereich Ost
Planning	GSE Ingenieur-Gesellschaft mbH, Enseleit und Partner; Ingenieurbüro Zimmermann + Weidemann GbR
ARGE	✓
Concrete volume	26400 m^3
Reinforcement	2100 to

SERVICES

- Concrete construction
- Rail transport infrastructure
- Structural engineering

https://implenia.com/en/references/detail/ref/nordkreuz-karow-1-1/

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