

Storm Water Sewer/Chamber System AQUATUB-Rw/MULTI-*inspect* 600

Site Report Extension to Six Lanes of Autobahn A 3 Frankfurt – Nürnberg

- **Section** Fuchsberg - east of exit Geiselwind
from site-km 327 + 300 to site-km 332 + 200
- **Length** about 4.9km
- **Client** Autobahndirektion Nordbayern, Freistaat Bayern
- **Building contractor** Gebrüder Stolz & Co., Hammelburg
sub-contractor: D. Buchinger, Stadelschwarzach
- **Building period** May 2016 to 2018 (planned)
- **Project** Carriageway drainage with seven overpass/
underpass structures and construction of exit area
Geiselwind in the course of the extension of
Autobahn A3 to six lanes
- **Type of pipe**

AQUATUB-Rw	DN150 to DN500
SIROPLAST-K	DN100 to DN350
AQUADRAIN	DN400
- **Chamber system** MULTI-*inspect* 600
SIRO-*inspect* S 400

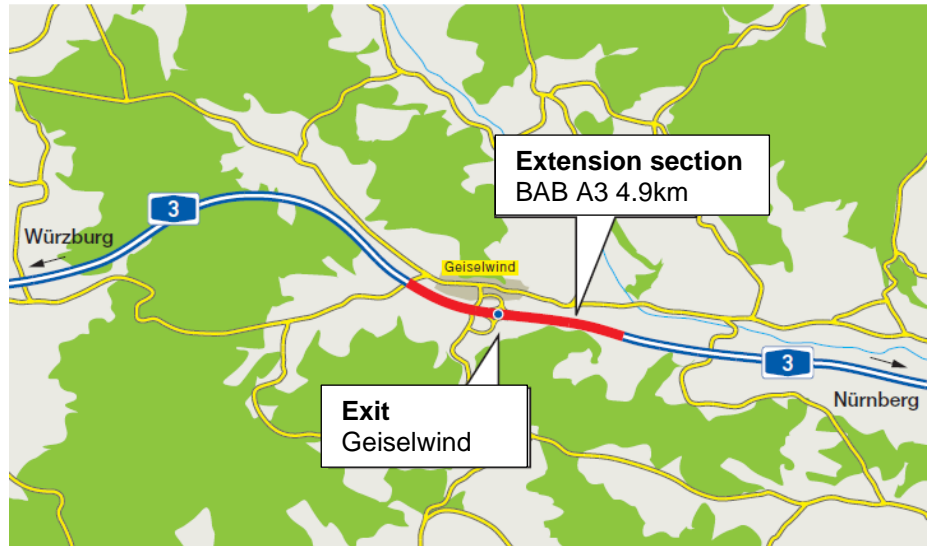


**PE-HD pipe and chamber systems
for professional drainage
in traffic route engineering**





Carrier line AQUATUB-Rw in combination with MULTI-inspect 600 chamber system



Extension of carriageway in direction of Nürnberg with drainage of medial strip



Exit Geiselwind: drainage of access road with MULTI-inspect 600

Extension to six lanes of Autobahn A3 Frankfurt - Nürnberg in the area of exit Geiselwind

Coming from Köln, the Autobahn A3 is already completed with six lanes up to about Aschaffenburg. In order to cope with the increased traffic volume, the section from Aschaffenburg to the motorway junction Nürnberg-Fürth/Erlangen is now being extended in sections.

As a first step, the carriageway leading south to Nürnberg was newly built and placed beside the existing one. This necessitated extensive earth work to level the site and the removal of the emergency lane to provide secure traffic routing for the permanently heavy traffic volume in this section, during the construction phase. In addition, a temporary drainage system meeting the increased requirements of SLW 60 traffic loads had to be provided.

AQUADRAIN DN400, the multi-purpose pipe used, has a ring stiffness of $S \geq 8.0 \text{ kN/m}^2$, which comes up to an SN8 carrier line in regard to reliable stability under load. The extensive earth work under increased soil load could thus be safely performed, and an adequate and durable drainage of the building area was guaranteed.

In a second step, the carriageway leading north to Frankfurt was extended.

For the drainage of the carriageways in both directions, AQUATUB-Rw carrier lines or, in wide sections of the route, SIROPLAST-K drainage pipes, both made from PE-HD, were used together with MULTI-inspect 600 chambers.

Narrow specifications with regard to deadlines necessitated uninterrupted and speedy progress in completing the drainage system. In view of the fact that work had to be carried out under aggravating site conditions, the excellent accuracy of fit of pipes and fittings of the HEGLER system was of particular advantage.

Pipe systems installed/planned to be installed:

MULTI-inspect 600:	abt.	245 pcs.
SIRO-inspect S 400:	abt.	20 pcs.
AQUADRAIN:	abt.	3,200 m
AQUATUB-Rw:	abt.	2,700 m
SIROPLAST-K:	abt.	19,100 m

HEGLER

Corrugated and Twin Wall Pipes of Plastics

