

Specialist Press Release

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Excavation pit with a view

Aschaffenburg, Germany – To ensure that the waste water system of the German cultural city of Aschaffenburg will be fit for the future, a new waste water facility for the city's mixed water system is currently being constructed in the immediate vicinity of the historical city center. With a view of the imposing Johannisburg castle and near the Willigisbrücke bridge on the banks of the Main River, two structures for waste water management are being constructed that will be combined and brought together in one complex: a rainwater overflow buffer with a capacity of 2,000 m³ and a new waste water pumping station. "Because this stretch of the Main is a very popular area for leisure activities and local recreation, green spaces will be restored on the surface after the end of the general construction activities," explains Mona Feilner, project manager for Bauer Spezialtiefbau.

BAUER Spezialtiefbau GmbH is working together with Michel Bau GmbH from Klingenberg under the umbrella of the Willigisbrücke joint venture. The client is the civil engineering office for the city of Aschaffenburg. Bauer is carrying out the specialist foundation engineering works, which are expected to conclude in summer 2021. These works include the execution of a tied-back, water-resistant box for construction of the shell. Specifically, a retaining structure will be executed with a secant pile wall using the CFA method up to a depth of approx. 24 m; additionally, a low lying jet grouting cut-off base (HPI) will be installed. In some places, removable anchors will be used to tie back the retaining structure. This is the first time GRP anchors will be used in Germany. In addition, the shell will be secured against uplift with a micro pile foundation.

Work must proceed with particular caution, and success depends on the preparation and coordination of individual tasks as well as their execution by the different trades involved. A further challenge is ensuring that the service roads are kept operational at all times. A variety of largely unknown obstacles in the construction soil also requires heightened attention. "The right equipment technology is particularly important, as are quality assurance measures to achieve a 'leak-proof' excavation pit – particularly during construction of the HPI," says Nicolai Guegel, construction supervisor for the execution of the HPI base at Bauer Spezialtiefbau.

Various equipment from the Bauer portfolio is used for these works, including a BG 40 for construction of the CFA piles and a BG 15 with HPI mixer technology and drilling slurry regeneration that is currently being used to carry out the HPI works. Following this, the anchors will be installed using a KLEMM KR 806 and uplift prevention will be executed using a BG 20.

Images: 2021-01_BAUER_Aschaffenburg project ...



(1) A BAUER BG 40 constructs CFA piles in the German city of Aschaffenburg – in the background: the picturesque Johannisburg castle.



(2) BAUER Spezialtiefbau GmbH constructs the retaining structure using a secant pile wall up to a depth of 24 m.



(3) A low lying jet grouting base is used for horizontal sealing

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About BAUER Spezialtiefbau Group

BAUER Spezialtiefbau GmbH, the original parent company of the BAUER Group, has been a major driving force in the development of specialist foundation engineering. It carries out all of the customary processes of foundation engineering, primarily for excavation pits, foundations, cut-off walls and ground improvements on a worldwide basis. In doing so, BAUER Spezialtiefbau GmbH works closely together with their over 50 subsidiaries and branches across the globe. Regional networks around the world allow for the quick and flexible application of machines, teams and expertise. Bauer Spezialtiefbau offers their customers individual, creative and economical specialist foundation engineering solutions for demanding construction projects, from planning through to execution. More at bst.bauer.de

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. With over 110 subsidiaries, Bauer can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments with high synergy potential: Construction, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water, oil and gas. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2019, it employed about 12,000 people in around 70 countries and achieved total Group revenues of EUR 1.6 billion. BAUER Aktiengesellschaft is listed in the Prime Standard of the German Stock Exchange. More information can be found at www.bauer.de. Follow us on [Facebook](#), [LinkedIn](#) and [YouTube](#)!