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Junghofstraße 11: FOUR Frankfurt

In the heart of Frankfurt, in the middle of the banking district, Germany's most spectacular high-rise ensemble – the **FOUR Frankfurt** – is being built on the former Deutsche Bank site. The four high-rise buildings, up to 228 meters high, will house over 600 apartments and the highest office floors in the country. Two hotel concepts, a day-care centre for children and an urban mix of retail outlets, local services and restaurants will also create the basis for a lively and diverse quarter with a strong appeal.

Project outline FOUR:

Use:	Mix of uses (office, residential, catering, shopping, hotel, fitness)
Location:	Frankfurt am Main
Construction time:	2018 until 2023/24
BRI:	1,152,000m ³
BGF:	213,000m ²
Towers :	T1: 228m; T2: 173m; T3: 120m; T4: 100m
Architect:	UNSTUDIO & HPP Architects
Client:	G&P Erste Management GmbH, G&P Zweite Management GmbH G&P Dritte Management GmbH, G&P Vierte Management GmbH

Demolition work on the former Deutsche Bank site began in April 2018. The listed facade in Junghofstrasse was secured with a scaffolding structure before demolition work was started and will remain intact. Work included demolishing the 100m-high old high-rise. This was demolished floor by floor using mini excavators on the individual floor slabs.

Parallel to the demolition, special engineering work was started on the foundation at the end of 2018. The excavation pit will be constructed on the basis of the surrounding neighbouring structures and on the high horizontal forces using the top-down construction method. The two bracing slabs will be supported on a diaphragm wall and 231 primary columns. In addition to the primary columns, a further 140 foundation piles are to be drilled, on which the four high-rise buildings will be based. The primary columns will be installed as precast reinforced concrete elements with dimensions up to 1.00m x 1.00m. Both the diaphragm wall lamellas and the foundation piles will be used for geothermal heat generation.

At the same time, three drills are currently working on the very compact inner-city construction site to construct the bored piles and primary supports in the individual high-rise areas; two diaphragm wall units are constructing the shoring along Junghofstraße, and several excavators and trucks are transporting the excavated earth away.

For soft rock layers, the individual diaphragm wall lamellas are produced using a diaphragm wall grab. A soilmec SC-135 HD Tiger diaphragm wall milling machine is used when very hard rock is encountered. This milling machine is unique in Europe and is therefore only used on selected special civil engineering construction sites.