

Anchor with removable strands on site Europlaza / Vienna



# **General Information**

- Excavation support for a three storey underground car park
- Design comprised of bored piles ø 60cm with spacing, two rows of anchors
- Jet grouting columns between the piles were used in the range influenced by the groundwater
- Upper level anchors were installed with two chords C300
- · Lower level of anchors mostly directly through the piles
- · Anchors encroached on public land necessitating the use of totally removable strands



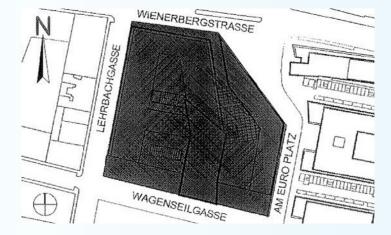
### Data

Circumference of excavation bit: 425 lfm

Area: ~ 100 x 100 m

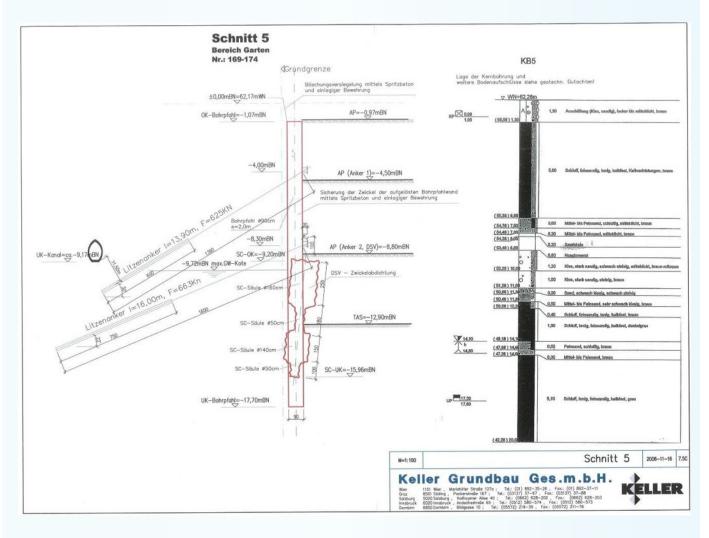
Greatest excavation depth: 12.5m BN

Excavation volume: ~ 12,500 cubic m



**SBM**<sup>4</sup>

#### SINGLE BORE MULTIPLE ANCHOR



## Upper level of anchors

No. WGL Anchor: 70 No.

Average length: 14.5 m

Average force: 620 kN

No. of strands, (1670/1860, Ø 12,9 mm): 6 strands or 3 loops

Inclination: 12° - 35°





SINGLE BORE MULTIPLE ANCHOR

### Lower level of anchors

No. WGL Anchor: 76 No.

Average length: 16.0 m

Average force: 640 kN

No. Of strands, (1670/1860, Ø 12,9 mm): 6 strands or 3 loops and 8 strands or 4 loops

Inclination: 15° – 27°







View after reaching max. excavation depth

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