



SITE REPORT



REALIZED: JULY 2010

BUILDING PROJECT: RESIDENTIAL NEIGHBOURHOOD

SEEFELDERGASSE 30, A-1220 WIEN

AWARDING AUTHORITY: BWS GEMEINNÜTZIGE ALLG. BAU-, WOHN-
UND SIEDLUNGSGENOSSENSCHAFT REG.GEN.MBH

AREA: 3.000M²

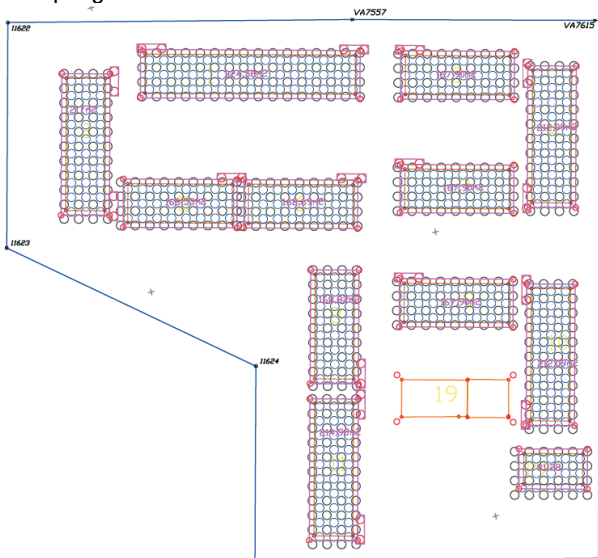


Assignment:

For the construction of a residential neighbourhood without basements the ground should be improved. Between the top soil and the medium densely bedded gravel there is a loosely bedded intermediate layer of silty fine sand to sandy silt to a depth of 2.6m.

In order to prevent grain redistribution due to fluctuating groundwater level with its to be expected settling, an excavation and backfill of lean concrete to a depth of 2.8m was foreseen.

An alternative was being looked for so as to shorten the construction time and to optimize the construction progress.



Solution:

The „Hybrid-foundation System TERRA-MIX“ was selected.

1. Step:

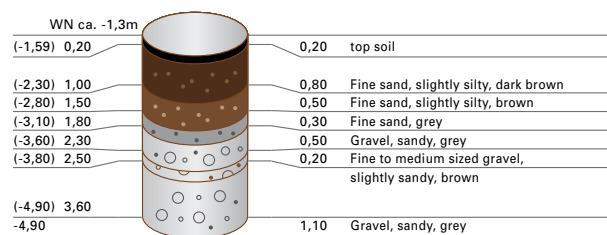
Improving the silty fine sand and the same time respectively creating the work level with a layer strength of 45cm by means of milling a suitably with the ground harmonized binding agent into the ground. $E_{vd} > 35 \text{ MN/m}^2$.

2. Step:

Impulse-Compaction in several work steps and re-filling of the settling cones with binding agent improved soil.

3. Step:

Creating a frost-proof „Substitute base layer System TERRA-MIX“ with a layer strength of 45cm by means of milling a suitably with the ground harmonized binding agent into the ground. This substitute layer serves as a load compensating layer above the compaction columns. $E_{vd} > 70 \text{ MN/m}^2$



Result:

By using the „TERRA-MIX Hybrid-foundation System“ the use of resources could be minimized, the construction time be shortened and a foundation version of very high quality could be established.

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