RECONSTRUCTION RAILWAY STATION BRÜNNER STRASSE, VIENNA

Client: Austrian Railways infrastructure AG
Development Period: 2013 to 2016

THE PROJECT

On the occasion of the construction of the Hospital Vienna North, the railway station along the Vienna-Floridsdorf - national border (Retz) line has been modernised and adopted to the state-of-the-art. In the course of this, the station has also been relocated 150 m towards the hospital in order to provide a direct access to the hospital. Furthermore, the project comprised an island platform, accesses by elevator as well as noise protection walls. Additionally, the entrance buildings will be commercially utilized. The construction works included also the renewal of all the structures of the bridge across the Brünner Street. The reconstruction was carried out during continuous railway operation.

OUR FUNCTION

BGG Consult has been commissioned by the Austrian Railways Infrastructure AG with the geotechnical consulting during all planning and realisation phases.
Based on explorations like core drillings, dynamic probings and trial pits, geotechnical expert's reports were prepared for the permission procedure according to railway law and for the tender document. During construction, a geotechnical supervision was done.

Building pit support system at the cistern fill:
In the course of construction, a formerly unknown cistern with a length of 50 m and a width of 20 m was found in the area of the existing embankment. Its depth reached from 4 m to 7.5 m below embankment foot. The necessity of an uncovering of the cistern required a building pit support system by means of an anchored shotcrete wall. The intense geotechnical consulting has been of special interest for this unexpected problem in order to achieve a technically correct, timely and economic solution.

Setting up of the shotcrete wall above the cistern