



*Construction proceeding for the five level  
deep below-grade parking garage  
beneath a hotel.*

## Hofgarten am Gendarmenmarkt – City Block 208

*Berlin, Germany*

Mueser Rutledge Consulting Engineers (MRCE) developed geotechnical criteria for construction of a five level deep below-grade parking garage beneath a block square hotel, commercial and residential development in the heart of historic Berlin. Alternative methods to control groundwater inflow during construction were evaluated. Contract plans and specifications were prepared for concrete diaphragm walls that will serve as both groundwater cut off and permanent structural walls. A chemical grout blanket at the base of the cutoff walls provided a waterproof bottom closure for the excavation. Bracing and excavation staging address issues of interference with tieback anchors from a neighboring project under construction and protection of historic buildings that had to be preserved on the project site.