



Top left: Rendering of the Bank of America Tower. Upper right plan shows location of the subways in relation to the site. Lower left: Excavation starting in October 2004. At corner of 6th Avenue and 43rd Street, rock anchors are drilled to support the subway which runs along 6th Avenue. Lower right: At the bottom of the 60 ft. deep excavation in June 2005.

One Bryant Park (Bank of America Headquarters Building)

New York, NY

MRCE's Services

- Geotechnical and foundation engineering services for deep rock excavation in tight urban environment
- Subsurface investigation with test pits
- Settlement analysis of NYCT structures due to construction
- Protection of adjacent subway structures and historical Henry Miller Theatre facade
- Foundation recommendations
- Resident engineering services during construction

This new high rise structure on Sixth Avenue and 42nd Street covers 2/3rds of the block and has three underground basement levels. The tower will be 56 stories and will consist of 2.1 million sq ft. It is the most advanced "Green" building constructed in New York City to date and includes a variety of conservation and environmental advances in water conservation and co-generation of power and cooling. The complicated site incorporated a deep rock excavation, subway lines along two sides, and the preservation of a historical theater facade. The NYCT subway shuttle, which lies beneath West 42nd Street, is along the south side of the site. The 6th Ave Subway tunnel is along the east and included a change from a cut & cover tunnel to a mined tunnel. Along 43rd street, the facade of the Historic Miller Theater will be preserved and incorporated into the new building and the rock support system had to maintain stability of the facade. Demolition of the site began in spring 2004. Occupancy is anticipated for early 2008.

Mueser Rutledge Consulting Engineers (MRCE) is providing geotechnical and foundation engineering for this project. Services included subsurface investigation with test pits, settlement analysis of NYCT structures due to construction, foundation recommendations and a summary report. MRCE engineers provided resident engineering services during construction.