



Mueser Rutledge
Consulting Engineers



***Above left:** Model of the Beekman Tower, a Frank Gehry designed 876-foot-tall, glass- and titanium-skinned mixed-use tower, which is expected to be completed by 2009. It will be the tallest tower in the City Hall area and contain the first New York City public school to be built on privately owned land. **Above center:** the site was formerly a parking lot for the NYU Beekman Downtown Hospital. **Upper right:** Site conditions during MRCE's subsurface investigation. **Lower right:** MRCE engineer installing tilt sensor in subway.*

Beekman Tower

New York, NY

Beekman Tower is a 77-story high-rise designed by the noted architect Frank Gehry. Mueser Rutledge Consulting Engineers (MRCE) provided geotechnical and foundation engineering services for the construction of this tower. Beekman Street is also undergoing reconstruction during this project.

MRCE's services included:

- Due diligence study and summary report based on available information.
- Subsurface investigation including borings; recommendations for support of the new structure and protection of adjacent structures; test pits to locate old foundation walls; vaults; and foundations of the adjacent structures.
- Design of excavation support for the subway in Beekman Street and underpinning of the adjacent building.
- Instrumentation and monitoring of the adjacent subway during construction of the tower, including a condition survey of NYCT subway tunnel, 12 seismographs, 12 tilt sensors, 3 piezometers, and 4 inclinometers in the support wall and data logging equipment for remote readings of the equipment.