

Client:
Terminus II

Location:
Atlanta, GA

Services Provided:

- Automated monitoring
- Risk management

Value Provided:

- Quick notification to site personnel of a slope movement led to safety
- Allayed the fear of adjacent property owners of settlement

Background & Project Challenges

The Terminus II complex is a combination of residential and business addresses located in the heart of the Buckhead district of Atlanta. The addition of the 6-story deck will provide increased parking for the Terminus complex.

Geocomp performed monitoring that provided necessary alerts and notification of slope movement to maintain site safety.



Geocomp Role & Accomplishments

Geocomp provided performance monitoring for the 55-foot excavation adjacent to one of Atlanta's busiest roads and surrounding buildings. The excavation is for a 6-story parking deck as part of the Terminus II complex in the posh Buckhead office market.

The excavation bracing contractor wanted to closely monitor the performance as new methods were used in the construction. Shortly into the project, the owner authorized additional monitoring of surrounding buildings. Geocomp assisted in providing real-time feedback and helped manage the client's risk.

During the course of construction, the deflection and settlement of the foundation piles and adjacent buildings were monitored using a state-of-the-art real-time monitoring system using automated motorized total stations (AMTS) with reflective prism targets and in-place inclinometers to monitor movements of the excavation support system and adjacent buildings around the clock. An electronic piezometer monitored the water level between the excavation and surrounding retail buildings.

Geocomp's testing division, GeoTesting Express, provided laboratory triaxial shear testing for the designer to evaluate the soil conditions and check the design after a portion of an slope movement adjacent to the excavation.

The benefits of the real-time performance monitoring included:

- Quick notification to site personnel of a slope movement led to safety
- Allayed the fear of adjacent property owners of settlement
- Data allowed for better design in the next job