



PROJECT BRIEF

Crenshaw LAX Transit Corridor

PROJECT PROFILE

CLIENT:
Walsh/Shea Corridor Constructors

LOCATION:
Los Angeles, CA

VALUE:

- Monitoring for confirmation of performance and quality assurance of design for safety

- Centralized GIMS software allows for simplified data reporting

SERVICES PROVIDED:

- Real-time data to evaluate construction effects on underground tunnels and excavations
- Risk mitigation for surrounding structures throughout construction
- Instrumentation, monitoring, subsurface investigation, geotechnical soil testing, and Geotechnical Information Management System (GIMS)

“Geocomp’s *iSiteCentral*® integrates data from more than 2,000 sensors, including automated MPBXs, inclinometers, strain gages, and tilt meters with settlement measurements and performance data from the contractor’s Tunnel Boring Machine (TBM) and Automated Motorized Total Stations.”



INSTALLATION OF GEOTECHNICAL INSTRUMENTS & DATA AUTOMATION

Geocomp continues instrumentation and monitoring for over one mile of twin bored tunnels, three cut-and-cover/station excavations, and one low excavation location. Geocomp’s *iSiteCentral*® integrates data from more than 2,000 sensors, including automated MPBXs, inclinometers, strain gages, and tilt meters with settlement measurements and performance data from the contractor’s Tunnel Boring Machine (TBM) and Automated Motorized Total Stations (AMTS). *iSiteCentral*® also incorporates installation documentation and photos into the database to better centralize all instrumentation information and make it readily accessible for reporting and review. The majority of the work has been completed, with Geocomp’s focus on the open cut excavations directly adjacent to heavy commercial activity and interconnected with twin-bored 20-ft diameter tunnels, which run 60-ft directly below Crenshaw Boulevard. The construction activity is continuously monitored to help the contractor control excavation/tunneling work and to mitigate risk of unexpected movement to adjacent buildings and utilities.



BACKGROUND

Los Angeles Metro awarded the \$1.3 billion contract to Walsh/Shea Corridor Constructors (WSCC) to build the Crenshaw/LAX Transit Corridor Project, an 8.5-mile light rail that will run between the Expo Line on Exposition Boulevard and the Metro Green Line at LAX Airport. It includes eight new stations, five at grade level and three cut-and-cover braced excavations.