

Los Angeles Metro Regional Connector Transit Project

Client:

Regional Corridor
Constructors

Location:

Los Angeles, CA

Services Provided:

Instrumentation and
monitoring.

Value Provided:

- Reduce Risk to general public and building owners during construction activity
- Reduce Risk to Contractor for construction methods utilized during construction activity
- Allow construction activity to progress in a continuous operation without delays that could occur due to unknown performance of construction activity
- Allow Owner and Contractor to immediately assess performance affects of changes in construction sequencing or ground conditions

Background & Project Challenges

LA Metro awarded the \$1.4 billion contract to the Regional Corridor Constructors (RCC Team – led by the Skanska/Traylor JV) to build the L.A. Regional Connector Transit Corridor, a 1.9-mile underground light-rail system connecting the Metro Gold Line to the 7th Street/Metro Center Station. It includes three new stations, all cut-and-cover braced excavations. It will create a direct connection between Azusa and Long Beach and between East Los Angeles and Santa Monica. The project is scheduled to be completed in 2020.



Geocomp Role & Accomplishments

Geocomp’s contract includes instrumentation and monitoring for over one mile of twin bored tunnel and three cut-and-cover/station excavations using our *iSiteCentral*™ GIS web-based software to provide continuous, real-time assessment of construction-related activity to help the contractor control excavation/tunneling work and to mitigate risk of unexpected movement to adjacent buildings and utilities.

Geocomp’s *iSiteCentral*™ will integrate data from more than 3,000 sensors, including automated MPBXs, inclinometers, strain gages, load cells and tilt meters, settlement monitoring points and performance data from the Contractor’s TBM. Remotely positioned data collection systems will be placed along the full length of the 1.9 mile transit line. Data will be transmitted wirelessly to Geocomp’s *iSiteCentral*™ database management system in Acton, MA. Work will begin in early summer of 2015 and continue through 2020.