

West Valley College

A HOCHTIEF Company

Owner

West Valley-Mission Community College District

Location

Saratoga, CA

Value

\$3,000,000

Market

Bridges

Start - Completion Dates

06/2008 - 12/2008

- 8,000 lineal feet of excavation, over 2,600 cubic yards of off-haul and concrete backfill
- Seven precast concrete vaults weighing 35,000 pounds each and 33 precast concrete vaults weighing over 18,000 pounds each
- More than 100,000 lineal feet of four-inch conduit in 7/100 of a square mile area
- More than 28,000 lineal feet of high-voltage cable

Project Description

Flatiron developed a new loop-style high voltage underground power and telecom/data distribution system throughout the West Valley College campus in Saratoga, Calif. Because the college's previous safety system required the shutdown of the entire campus, Flatiron equipped the college with installations that allowed the isolation of buildings or sectors of the campus during an emergency or necessary maintenance.

This project addressed many safety issues and replaced non-conforming existing power system installations with high voltage metering switchgear, high voltage multi-way switches, conduit systems and modern 15,000 volt power distribution cable.

In addition, Flatiron installed underground telecom/data pathways throughout the campus in order to expand the District's data connectivity, telecommunications and safety systems, such as fire alarm and security. The magnitude of these installations included 100,000 lineal feet of four-inch conduit in 7/100 of a square mile area, seven 35,000-pound precast concrete vaults and 33 18,000-pound vaults standards at the time. Directional drilling methods was used to install large 14 to 20-duct conduit packages for multiple creek crossings controlled by the Department of Fish and Game as well as existing facilities which could not be disturbed by construction operations.

As part of the work, Flatiron completed 8,000 lineal feet of excavation and 2,600 cubic yards of off-haul and concrete backfill.

Flatiron completed this project in six months while school was in session, without disrupting the teaching and administration areas.

Company Role

Flatiron's electrical subsidiary Terno was the prime contractor for this project.

