

First Church of Christ Scientist at 1700 Franklin St. San Francisco

Seismic retrofit of unreinforced brick masonry historic land mark Church building, housing a Church auditorium, historic Organ pipes, and a Sunday school (22,000 square feet building in 2½ levels). Construction commenced in March 2008 and is due for completion in March 2009. The Church and Sunday school service remain operational throughout the construction work.

Project Owner: First Church of Christ, Scientist - San Francisco

Project Engineer: Sikaroudi & Associates, Inc.

Construction Manager: Architectural Recourses Group, Inc.

Seismic retrofit elements include:

- Complete removal of roof clay tiles, install new plywood roof diaphragm strengthening and re-installing of the new water proofing membrane and roof tiles (+/- 10,000 Sq. Feet).
- Installation of three new steel moment frames with new reinforced concrete foundations.
- Installation of five new shotcrete shear walls as new lateral seismic resisting systems on new reinforced concrete foundations.
- Installation of new wall to roof and floor steel anchors and hardware.
- Installation of several vertical steel posts around the existing chapel windows to brace tall chapel walls.
- Installation of new collector (tie) hardware throughout.
- Installation of new secondary support steel post under main gravity beams pocketed into brick walls.

Restoration and improvement works include:

- Architectural restoration of interior historic features (chapel windows, architectural columns, moldings, etc.) after install of retrofit elements.
- Installation of new handicap accessible restrooms at the auditorium level as well as accessible restrooms in the Sunday school.
- Complete re-painting of the interior.
- Complete new carpet at the auditorium and the Sunday school.
- New handicap accessible ramp at the entry to the Church.