



# Project Overview

## FRP RETROFIT OF MASONRY WALL IN HEALTH CARE FACILITY

**Name:** Veterans Affairs Medical Center  
**Type:** Health Care Facility  
**Location:** Tucson, AZ  
**Completed:** January 2005

### PROBLEM

The demolition of an adjacent storage room gave concern to the stability of a tall unreinforced masonry wall in the boiler room of the hospital.

The wall required strengthening for stability and to resist lateral shear loads. Access to the wall from inside the boiler room was very limited and there were many pipes attached to the wall that could not be removed or relocated.



### SOLUTION

QuakeWrap® FRP Retrofit System was selected since it could provide the required strengthening and be applied under severe space limitations due to existing installations. QuakeWrap® composite glass fabric was used to strengthen the wall from inside and outside. Fabric strips were overlapped to achieve continuous uniform reinforcement.



## Technical Highlights

- URM wall required strengthening
- Very limited work space from inside the room
- Access was limited by the many appurtenances attached to the wall
- 2,500 ft<sup>2</sup> of QuakeWrap® glass fabric used
- The pipes attached to the wall remained intact
- Walls painted at completion



## Credits

Consultant: Schneider & Associates, Tucson, AZ  
General Contractor: Sullivan International Group, Inc., San Diego, CA

*“The FRP Retrofit Experts”*