

UNIVERSITY OF CALIFORNIA, DAVIS - OLSON HALL

Davis, California

OVERVIEW

Olson Hall was one out of nine buildings requiring a seismic upgrade according to Phase 5 of the UC Seismic Corrections Plan. Fyfe Company's pre-qualified certified applicator, Fibrwrap Construction, was awarded the design-build project. The project documents specified existing concrete columns and diaphragms to be strengthened with the addition of fiber-reinforced polymers (FRP). The project drawings also included specific FRP detailing at obstructing concrete walls and depressions in the existing terrazzo flooring.

The Tyfo® SCH-41 system provided the additional strengthening to the specified columns at the basement level. The Tyfo® SCH-41 system also served as collectors on the first floor, second floor, and roof level slabs to transmit seismic forces to the rest of the seismic-force-resisting system.

The detailing at wall obstructions included removing only the bottom concrete portion to allow the Tyfo® Fibrwrap® system to pass through while the existing wall rebar stayed in place. Detailing at depressions in the slab included transitioning the cured composite system with cement grout at a one-percent slope. This created a smooth transition to the existing terrazzo flooring.

The project was completed ahead of schedule primarily during the winter break with minimal disruption to classes scheduled in the hall.



Tyfo® SCH-41 system application



Wall obstruction detailing



Tyfo® system application