

# Mega-shoring

Los Angeles,  
California

For guests at the Sherman Oaks Radisson Valley Center Hotel, the wake-up call on January 17, 1994, came at 4:31 a.m. in the form of a 6.8 magnitude earthquake. There was significant damage to several of the columns on the first floor of this 13 story hotel.

**Construction Technologies Consultants, Inc.** was hired to perform repairs at an accelerated pace in order to re-open the hotel as soon as possible.

Eighteen columns on the first floor, including rebar, needed to be removed and replaced. To distribute the accumulated load of the building away from these columns, four floors of shoring (including the basement) had to be in place prior to the removal of the damaged columns.

CTC analyzed several shoring

suppliers to find one that could deliver five truckloads of shoring which could be manhandled throughout the hotel and deliver capacities up to 1,300,000 lbs. at each shoring location in a minimum of floor space.

EFCO Engineering worked with CTC's structural engineer to design a shoring system which used a combination of 20K per leg pipe shores, 30K per leg SUPER STUDs and 100K per leg Shore Towers. Following repairs, the Radisson will be ready to deliver

many more pleasant wake-up calls from the front desk!

Perry Raanan, P.E. .... President  
Frank Lee, P.E. .... Chief of Operations  
Garry Myers, S.E. .... Structural Engineer  
Henry Pombo .... Project Superintendent  
Greg Scheideman ..... EFCO Sales  
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