UCD MEDICAL CENTER EXPANSION
UC Davis Medical Center
Sacramento, California

Completed in 2010, the UC Davis Medical Center (UCDMC) Surgery and Emergency Services Pavilion is the centerpiece of the UCDMC’s expansion and improvement program designed to expand and modernize its facilities, while meeting state seismic safety standards. The $424 million, 470,000 square foot Pavilion provides additional beds and operating rooms to meet increased demand for inpatient services.

THE CHALLENGE
In 2004, UCDMC embarked on a modernization program to upgrade its campus to meet growing patient demands and comply with Senate Bill 1953, requiring all California general acute-care hospitals to meet sweeping new seismic safety standards. Hospitals needed to retrofit, rebuild or close non-compliant buildings by 2008. An addition to the existing hospital, the Pavilion would become the core of the UCDMC program with three above grade levels and one below grade level. It was critical that construction of the new Pavilion did not interrupt services at the operating hospital.

KLEINFELDER’S SOLUTION
Working closely with the UC Davis construction staff, Kleinfelder personnel provided special inspection and testing services for this steel and concrete structure. As construction progressed, several Kleinfelder inspectors became OSHPD-certified and provided construction inspection services, including electrical, framing, plumbing and mechanical, to achieve building code compliance. This eliminated the need to hire outside inspectors, saving UCDMC money. When buckling resistant brace frames were fabricated in Japan, Kleinfelder facilitated materials testing services by mobilizing resources to Japan to provide welding and non-destructive inspection of these specialized structural steel members. In addition, Kleinfelder personnel provided inspection services at steel fabrication facilities in several U.S. cities. During the foundation phase of the project, Kleinfelder provided geotechnical engineering services including oversight of the testing and observation program for the auger-cast pile SESP Pavilion Project building foundations.

CLIENT BENEFIT
As part of the UCDMC construction program team, Kleinfelder provided value-added inspection and testing services that facilitated timely compliance with seismic safety and building code requirements for the new UC Davis Surgery and Emergency Services Pavilion. Kleinfelder’s work reduced costs and helped meet schedule demands for this high-profile project.

Kleinfelder is an employee-owned science, architecture, and engineering consulting firm providing solutions to meet our world’s complex infrastructure and natural resource challenges. Working as a team, our bright people will deliver the right solutions.