

HP PAVILION AT SAN JOSE (AKA SAN JOSE ARENA) SAN JOSE, CALIFORNIA

Consolidated Engineering Laboratories (CEL) provided services on all aspects of this \$150 million, 18,000 seat concrete and structural steel facility. The foundation is comprised of piles and the arena structure was cast-in-place concrete beams and columns, precast concrete seat risers, space frame truss system, with exterior walls of stainless steel panes and concrete support system. CEL was able to provide inspectors for steel fabrication in three states and precast concrete at two plants. Our on-site inspection team peaked at six technicians, including the resident inspector.

- Delayed cracking and structural steel developed after shipment. CEL's Inspector identified the problem. CEL's metallurgical staff developed a revised pre-heat and post-heat scenarios and a different procedure for welding nodes to eliminate delayed cracking.
- Structural steel fabricator filed Chapter 11 during the course of the project. CEL staffed steel fabrication inspection in 6 plants in 3 states.
- CEL performed specification review prior to bidding, saving the owner \$300,000 in reinspection costs.

Client: The Redevelopment Agency of the City of San Jose
Dolores Montenegro – (408) 277-4744

Architect: Sink Combs Dethlefs
Dick Combs – (303) 308-0200

Structural Engineer: Martin & Martin
Chuck Keys – (303) 431-6100

General Contractor: Perini Building Company
Kenneth Bock – (602) 256-6777

Duration: 1991 – 1993

Construction Costs: \$150 Million

CEL Fees: \$805 Thousand

