

## 211 MAIN STREET SAN FRANCISCO, CALIFORNIA

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As part of a \$17 million seismic upgrade and retrofit, Consolidated Engineering Laboratories (CEL) provided full-time quality control of all field welding, bolting and fireproofing re-application. This 30-year old building was evaluated at a level of detail which was not part of the normal standard of care when the building was originally constructed. Old weldments were evaluated for cracking and replaced. Cover plates were attached to existing moment frames, and evaluation of existing full penetration welds was performed prior to any new welding being performed. CEL was able to mobilize on this highly compressed construction schedule and operate on a multi-shift level to accommodate the contractor's schedule. A detailed structural evaluation was performed of both full penetration and fillet welds.

Client: C&C Associates  
Douglas Booth – (415) 777-0768

Architect: Ottolini & Booth Architects  
Douglas Booth – (415) 777-0768

Structural Engineer: Soha Engineers  
Frankie Lee – (415) 989-9900

General Contractor: Rudolph & Sletten  
Vince Bischof – (650) 572-1919

Duration: February 1997 – October 1997

Construction Costs: \$17 Million

CEL Fees: \$185 Thousand

