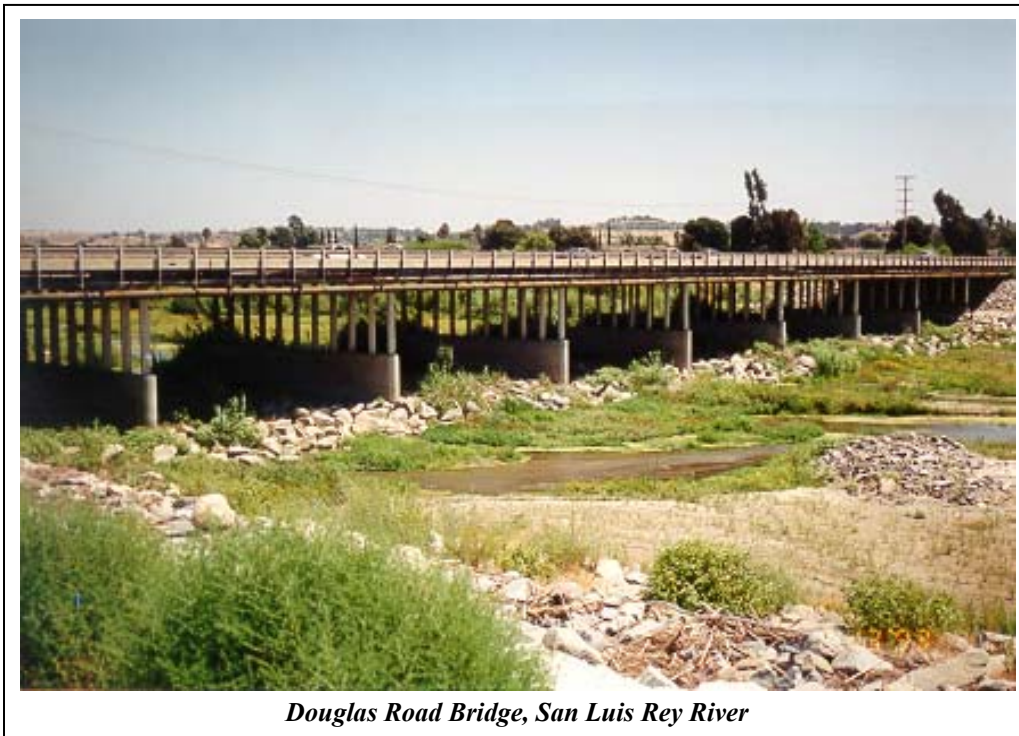




## Caltrans Seismic Retrofit Project

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WEST Consultants, Inc. provided hydrology, hydraulic and bridge scour studies for the State of California, Department of Transportation, as part of the bridge seismic retrofit program. Responsibilities included field reconnaissance, determination of appropriate discharges for analyses, computation of potential long-term streambed degradation, hydraulic and scour analyses, and the preparation of reports. The analysis for each bridge was performed in the following three steps: 1) assessment of existing conditions of channel bed for aggradation or degradation, 2) estimation of long-term changes in channel bed elevation at the structure, and 3) review of the proposed seismic retrofit strategy based on the hydraulic conditions and local pier and contraction scour at the bridge. Initially, 102 bridges throughout California were reviewed. Approximately 80 of these bridges required the complete analysis described above.



*Douglas Road Bridge, San Luis Rey River*

**Project Owner:**

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**Completion Date:** 1997