



**STRUCTURAL SYSTEMS
RESEARCH PROJECT**

Report No.
SSRP – 99/15

**SEISMIC PERFORMANCE OF
HOLLOW RECTANGULAR
REINFORCED CONCRETE PIERS
WITH HIGHLY-CONFINED
BOUNDARY ELEMENTS
PHASE I: FLEXURAL TESTS
PHASE II: SHEAR TESTS**

By

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Final Report on a Research Project funded by Caltrans Under
Contract 59A0051

February 2002

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Structural Systems Research Project

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Seismic Performance of Hollow Rectangular

Reinforced Concrete Piers

with Highly-Confined Boundary Elements

Phase I: Flexural Tests

Phase II: Shear Tests

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