SUCCESS STORIES

MRP Engineering, LLC

A Structural Risk Analysis and Engineering Consulting Company

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HISTORIC PRESERVATION

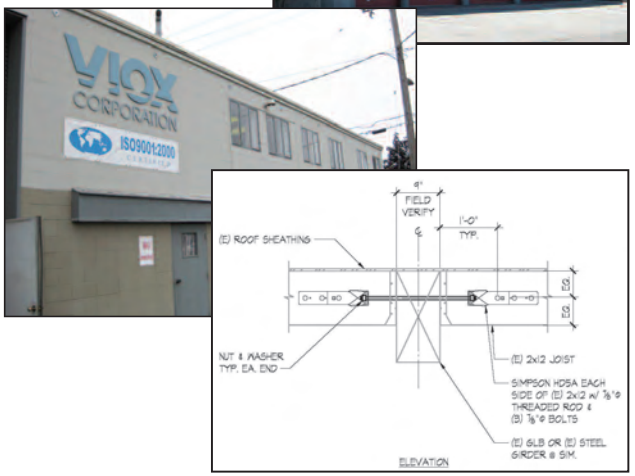
MRP was engaged by a Seattle-based church to assist in a multi-phase project consisting of:

- Phase I - Preliminary seismic evaluation to identify potential vulnerabilities, and solutions
- Phase II - Seismic analysis to develop conceptual upgrade alternatives and construction costs
- Phase III - Seismic upgrade design to develop upgrade construction documents

This 1929-vintage historic complex consists of sanctuary, bell tower and education wing. The goal of the project is to provide a seismically reliable facility in the event of a major regional earthquake.

PERFORMANCE-BASED EARTHQUAKE RETROFIT

MRP Engineering was approached by the CITY OF RENTON, WA to perform a seismic risk evaluation of a critical fire station building. MRP Engineering has also designed a seismic upgrade intended to provide “immediate occupancy” seismic performance for this critical facility. The project involved a FEMA mathing grant and is scheduled for completion in 2009.



MRP Engineering performed an initial seismic risk evaluation of the VIOX CORPORATION facilities located in Seattle, WA. The purpose of the evaluation was to assess the current seismic risks and develop a program to reduce unacceptable business exposures. Following the evaluation, MRP Engineering designed a seismic retrofit for one of the structures based on the client’s seismic performance criteria for this facility. The upgrade was successfully completed in 2008,

POST-HURRICANE DAMAGE INVESTIGATIONS

For building owners impacted by hurricanes, understanding the causes and sequence of damage involving wind and/or storm surge has significant implications in seeking public assistance funding or commercial insurance claims.

A careful site investigation and structural analysis can provide insights for attributing damage to wind and/or water (surge). Mark Pierepiekarz, President and founder of MRP Engineering, investigated numerous distressed structures and performed root-cause analyses following 2005 hurricanes Katrina and Rita.

Since insurance policies may exclude damage related to rising water, properly attributing damage and assigning losses to wind and/or storm surge are vitally important to the fair settlement of claims.

PROACTIVE SEISMIC RISK EVALUATIONS

Proactive structural risk evaluation and analysis entail a systematic approach and methodology, beginning with risk screening, followed by in-depth analysis of highly vulnerable structures or components, and completion in a mitigation phase involving design of structural upgrades, or the implementation of other risk mitigation strategies. MRP Engineering has supported its clients world-wide by applying our vast expertise in the seismic performance of facilities in the following industries:

- High Tecnnology
- Utilities
- Energy
- Mining
- Heavy Industrial
- Healthcare
- Education
- Transportation
- Manufacturing
- Telecommunications
- Real Estate
- Retail

Main Office:
Metro Seattle
Washington
USA

POST-EARTHQUAKE DAMAGE ASSESSMENTS

MRP Engineering developed manuals for initial damage assessments of U.S. GENERAL SERVICES ADMINISTRATION (GSA) Pacific Northwest and Alaska facilities by on-site staff following a major regional earthquake. The purpose of the manuals was to provide facility-specific practical guidelines for GSA property and asset managers to perform immediate post-event damage assessments, determine the level of structural and nonstructural damage, and initiate follow-on actions.