

Reidar MARRS Engineers, Inc.

RME Structural Engineers is committed to providing efficient structural design. We use state-of-the-art computer software to optimize structural member sizes & provide the most economical designs. We take pride in responding to Owner, Architect, & Contractor issues in a timely manner to deliver the project according to schedule.



Nick Marrs, P.E.
CEO & Principal

“Working with RME was a delight because they are very responsive and work with high integrity!”

Jose Sanchez/Homeowner/Bakersfield, CA

Licensed full-service Structural Engineers
providing services throughout California

Single Family

Multi Family

Commercial

Institutional

Tenant Improvements

Seismic Retrofits

Soft Story



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engineering possibilities



**SOFT STORY
RETROFIT
SERVICES**

WHAT IS SEISMIC RETROFITTING?

Retrofitting is an improvement to your building's foundation by altering or adding structural elements to withstand lateral movement caused by an earthquake.

WHAT DO I NEED TO DO TO MEET THE ORDINANCE REQUIREMENTS?

Owners must have structural analysis done by Civil/Structural Engineer or Architect licensed by California

Structural Analysis / Retrofit plans must be submitted to the Los Angeles Department of Building & Safety for approval

Construction Permits must be obtained

Completion and Inspection of retrofit project

Certificate of Compliance issued after final inspection has been completed and approved.

WHAT ARE SOME COMMON SOLUTIONS FOR SOFT-STORY RETROFITTING?

Moment Frames

Cantilever Columns

Shear Wall Strengthening

HOW LONG DOES A RETROFIT TAKE?

Engineering: 3-5 weeks**

Plan Check: 3 weeks average

Plan Check Corrections: 2 weeks**

Construction: 4-8 weeks

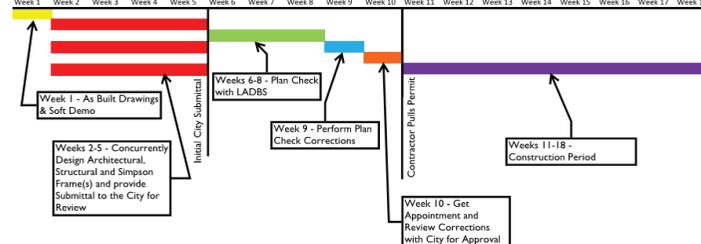
**Expedited schedule available for additional fee



Retrofit in Construction



Simpson Frame Installed



*This chart varies for each individual project.

SOFT STORY RETROFIT

RME SERVICES

1. Perform site visit at no cost to owner to prepare an Engineering Fee Estimate and Construction Budget.
2. Architectural As-Built Drawings
3. Prepare Structural Engineering Plans for Retrofit
4. Submit Plans to Department of Building and Safety
5. Initiate tenant habitability plan submittal with the housing department. Coordinate with property managers as required
6. Respond to City plan check corrections
7. Competitively bid the job
8. Work with GC to pull permits & begin construction.
9. Construction period is roughly 4-8 weeks depending on size of job.
10. Our office also offers a Design-Build Turnkey option in conjunction with qualified General Contractors