



Date: May 26, 2017
To: Patrick H. West, City Manager *T.H.W.*
From: Amy J. Bodek, Director of Development Services *A. Bodek*
For: Mayor and Members of the City Council
Subject: **Building Resiliency Program Request for Proposal**

The Department of Development Services Building and Safety Bureau (Bureau) will be distributing a Building Resiliency Program Request for Proposals to secure the services of a qualified engineering consultant (Consultant) who will evaluate the ability of certain buildings to withstand the effects of earthquakes. The Building Resiliency Program will focus on four seismic-prone building types throughout Long Beach:

- Soft, weak or open front walls, wood frame buildings (soft-story buildings).
- Reinforced concrete or masonry buildings with flexible diaphragm (tilt-up buildings).
- Non-ductile concrete frame buildings with masonry infill (buildings with lack of rebar or improper rebar detailing in supporting elements).
- Non-ductile concrete buildings (brittle concrete buildings).

The total number of buildings that are classified within these building-type categories is unknown at this time; therefore, the Consultant will:

- Survey existing buildings throughout Long Beach.
- Review City of Long Beach archives to determine if the identified buildings have been voluntarily upgraded.
- Identify those that are potentially hazardous and prone to significant damage, including possible collapse, during a moderate to major earthquake.

In addition to the assessment of existing conditions, the Consultant shall:

- Develop and recommend seismic retrofit programs that can achieve building resiliency and reduce the seismic hazards of the above building types.
- Provide preliminary engineering cost estimates for the necessary mitigations for each of the building types.
- Include comparative analysis of the best approaches utilized by other jurisdictions in California, such as the cities of Los Angeles, Santa Monica, and others.
- Provide a database of the existing building types to incorporate into the City's GIS system.

The Bureau completed a Mandatory Seismic Retrofit Program in the 1980's that focused on unreinforced masonry (URM) bearing wall buildings with great success.

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Of the 936 buildings identified at the time, approximately 99 percent were repaired and upgraded or demolished.

If you have any questions regarding this matter, please contact David Khorram, Superintendent of Building and Safety, at (562) 570-7713 or david.khorram@longbeach.gov.

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