

# Memorandum

To: CHAIR AND COMMISSIONERS

CTC Meeting: October 27-28, 2004

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Information Item

From: CINDY MCKIM  
Acting Chief Financial Officer

Prepared by: Terry Abbott  
Division Chief  
Local Assistance

Ref: **STATUS REPORT ON DELIVERY OF THE LOCAL SEISMIC RETROFIT PROGRAM**

## **SUMMARY:**

The Seismic Safety Retrofit Program was mandated by emergency legislation (SB 36X), enacted during an extraordinary legislative session called after the October 17, 1989 Loma Prieta earthquake. The mandate was removed in 2002 by Assembly Bill No. 2996. This report provides the status of current delivery efforts by local agencies that still have bridges scheduled for seismic retrofit work. The Department has made every effort to assist local agencies to deliver these projects. This program continues as a top priority.

## **BACKGROUND:**

There are about 24,000 publicly owned bridges in California with about 12,000 on state highways and 12,000 on or over local roadways. The purpose of this program is to evaluate all publicly owned bridges in California and take action necessary to prevent collapse due to earthquakes. At the outset of this program, all local bridges were considered candidates for retrofitting. A series of three screenings of local bridges was performed by the Department's Division of Structures to determine if seismic analysis was needed. The screenings identified 1,234 bridges that require seismic analysis and retrofit, if required by the analysis, and remain in the Seismic Safety Retrofit Program.

SB36X designated three lead agencies: Los Angeles County was designated lead for local bridge retrofit projects in all the cities in Los Angeles County; Santa Clara County was designated lead agency for local bridge retrofit projects located within the unincorporated portion of the county; and, the Department of Transportation (Department) was designated lead agency for the remaining local seismic retrofit projects throughout the state. Lead agencies are responsible for assessing the need for seismic retrofit work on non-State publicly-owned bridges and identifying retrofit work. Each bridge owner is responsible for administering design contracts, securing environmental approvals and right-of-way clearance, and administering construction contracts. A combination of Federal and State funding was used to fund these projects through the Department's Local Assistance program.

Assembly Bill No. 2996 was signed by the Governor in late 2002, eliminating the Local Seismic Safety Retrofit Program (LSSRP) as a State mandate and made the current allocation of State funds discretionary, subject to the annual Budget Act.

Information collected by the Department on a survey conducted in April 2004, for all bridges in the pre-strategy and design phase, serves as the basis for this status report. Local agencies were asked to respond to the survey and provide information on the projects construction schedules. Local agencies responses to the survey varied. Some local agencies did not provide a proposed schedule; several noted they were unable to proceed without State match funds and others, proposed construction three to seven years in the future. Current information indicates that 304 of 512 bridges are progressing slowly due to lack of matching funds.

### **Status of the program as of September 15, 2004**

A total of 1,234 bridges are in the program.

#### **Lead Agencies**

903 bridges: Department

293 bridges: Los Angeles County

38 bridges: Santa Clara County

### **Los Angeles and Santa Clara Counties as Lead Agencies**

<b><u>Milestone</u></b>	<b><u>Number of Bridges</u></b>
Pre-Strategy	3
In Design	76
In Construction	32
No Retrofit Required	62
Completed	<u>158</u>
<b>Total</b>	<b>331</b>

### **Department as Lead Agency**

<b><u>Milestone</u></b>	<b><u>Number of Bridges</u></b>
Pre-Strategy (includes 221 BART& 25 DWR Bridges)	266
In Design (includes 6 BART Bridges)	168
In Construction	100
No Retrofit Required	114
Completed	<u>255</u>
<b>Total</b>	<b>903</b>

**Steps Taken to Improve Delivery:**

- May 4, 2001 – A letter was sent to all local agencies with bridges funded under the LSSRP. This letter emphasized that safety remains a top priority and encouraged local agencies to take advantage of the 100 percent funding available and to proceed with their seismic retrofit projects as soon as possible. This letter also requested local agencies to provide a status and schedule update for the seismic projects.
- May 30, 2001 - Memorandum of Understanding (MOU) executed between the Department and Bay Area Rapid Transit (BART) for the 227 BART bridges included in the LSSRP. The MOU covers level of funding and guidelines for Department participation in the BART retrofit program. BART has started preliminary engineering work for segment one arial structure, which includes 71 bridges. BART plans to start construction on bridges in segment one in July 2007.
- January 22, 2003 – A letter was sent to all local agencies with bridges funded under the LSSRP, informing them of the funding changes relating to the State match provided by this program. In the letter, local agencies were reminded that they are still responsible for maintenance and safety of the bridges, and the lack of State funds for this program does not release them from these responsibilities.
- Twenty-five (25) bridges that belong to the Department of Water Resources (DWR) are also included in the LSSRP. Department and DWR staff met to discuss the process and guidelines of the LSSRP. In a letter dated April 13, 2004 to the Department, DWR stated that they plan to complete seismic retrofit work on the DWR bridges. The Department's Fresno Office is currently assisting DWR so they can proceed with preliminary engineering.
- The Department met several times with local agencies to try to help deliver the local seismic retrofit program.
- For bridges where the Department was the designated lead agency, the Department offered to assist local agencies in performing seismic analysis and retrofit design. A majority of local agencies accepted this offer. The offer for assistance was made early in the program and the State contracted out the design work to consultants. All completed structure Plans, Specifications and Estimates for bridges that were contracted out to perform seismic analysis and retrofit design have been delivered to local agencies.
- Initiated a pilot effort for the Department to perform the work for local agencies that had difficulties delivering their seismic retrofit projects. Due to loss of Reimbursed Work resources, this effort could not go forward.

Attachment

## List of Local Agencies having Bridges in Pre-Strategy or Design phase

**Pre-Strategy:** Bridges identified through the screening process and determined to be seismically vulnerable. These bridges require additional seismic analysis to confirm that seismic retrofit is required.

**Design:** Bridges identified through the seismic analyses process that require seismic retrofit, and the scope of the retrofit has been defined and approved by lead agencies to move to design phase.

District	Local Agency	No. of Bridges in Pre-Strategy	No. of Bridges in Design
1	Humboldt County		3
1	Mendocino County		4
2	Lassen County		2
2	Tehama County		2
2	Portola		1
2	Redding		2
3	Bute County		1
3	Placer County	1	
4	Alameda County		4
4	Antioch		1
4	Brisbane		1
4	Fairfax		1
	Fremont		1
4	Healdsburg		1
4	Livermore		1
4	Larkspor		1
4	Oakland		10
4	Orinda		2
4	Pinole		1
4	Petaluma		1
4	Palo Alto		1
4	Richmond	2	
4	Pittsburg		1
4	San Francisco		1
4	SFO Airport	1	1
4	San Jose	7	
4	Vallejo	1	
4	Sanoma County		13
4	CALTRAIN		10
4	Union City		2
4	BART	221	6
5	King City		1
5	Monterey County	2	8
5	City of Monterey		1
5	San Benito County		5
5	San Louis Obispo County		2
5	Santa Barbara County		11
5	City of Santa Barbara		3

District	Local Agency	No. of Bridges in Pre-Strategy	No. of Bridges in Design
5	City of Santa Cruz		4
5	Solvang		1
5	County of Santa Cruz	1	
6	City of Bakersfield		3
6	Fresno County	1	1
7	Los Angeles County	3	76
8	Barstow		3
8	Indio		4
8	Colton		7
8	Grand Terrace		1
8	Lake Elsinore		1
8	Loma Linda		1
8	Riverside County		4
8	San Bernardino City		1
10	Modesto		1
10	Merced County		1
10	San Joaquin County		4
10	Stanislaus County		8
10	Stockton		1
11	Carlsbad		1
11	Imperial County	1	2
11	North San Diego County		1
11	Oceanside		2
11	City of San Diego		6
11	Santee	1	
12	John Wayne Airport	1	
12	Santa Ana		4
12	Orange County	1	
Department of Water Resources		25	
<b>TOTAL</b>		<b>269</b>	<b>244</b>