



# BART EARTHQUAKE SAFETY PROGRAM

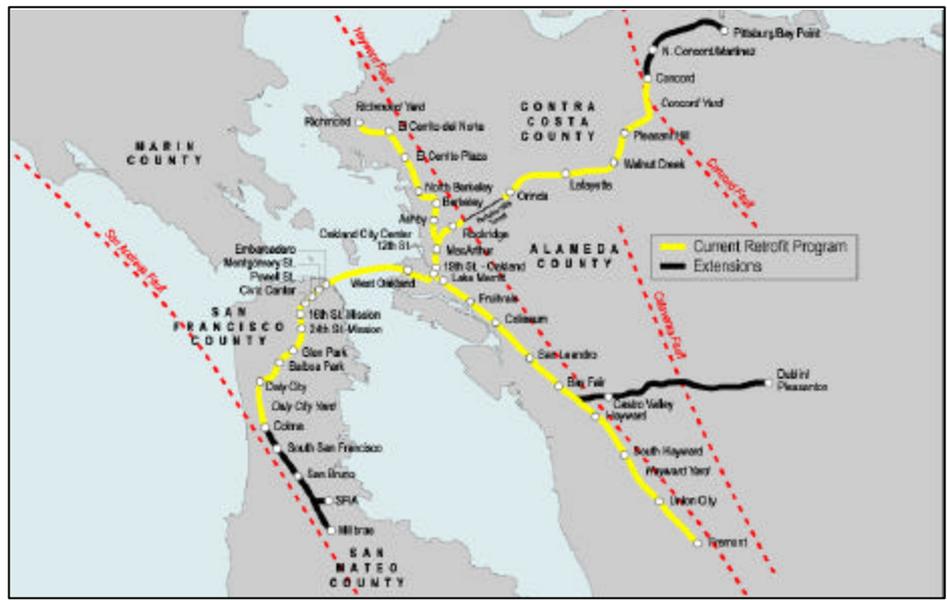
California Transportation Commission  
January 2005



**EARTHQUAKE  
SAFETY PROGRAM**  
BUILDING A STRONGER SYSTEM



# Work Scope



- Overall program will retrofit entire original BART system. “Core” system will be retrofitted for operability, remainder for safety. Total program value \$1.307 billion.
- 227 LSSRP Bridges – total value \$205 million.
- Located in all three BART counties.
- “Segment 1” consists of bridges in Oakland between Berkeley Hills Tunnel and the Transbay Tube.





# Background/Work So Far

- Vulnerability Study complete.
- Preliminary Engineering for “Segment 1” LSSRP bridges complete.
- “Segment 1” environmental clearance ongoing.
- Could not proceed with other work due to lack of matching funds – State matching funds removed from program in 2003.
- Emphasis on Transbay Tube work.



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# Funding

- Total cost for LSSRP approximately \$205 million.
- Received funding for Vulnerability Study, preliminary engineering in “Segment 1”.
- Received funds from Regional Measure 2 (bridge toll), but these are earmarked for Transbay Tube.
- Recent passage of Measure AA (bond measure) allows entire program to proceed.
- Essentially, the entire program is nearly fully funded.



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# Current Status

- Preliminary engineering (strategy reports) for “Segment 1” bridges is complete – awaiting Caltrans review comments.
- Environmental clearance for “Segment 1” expected to be completed by mid-2005. Final design for “Segment 1” can then begin.
- Beginning process to issue bonds – funds expected in March 2005. Commitments may be initiated now.
- Now gearing up for work on all other bridges in the BART system.





# Schedule

BART Earthquake Safety Program - Summary Schedule		Calendar Year:																					
		pre-2004	2004		2005		2006		2007		2008		2009		2010		2011		2012		2013		
Item		I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	II	I	
Prelim Design & Environm Approvals	E	█																					
Environmental Approval - Target Milestones																							
TBT Geotech Investig & Seismic Model	E																						
TBT Vibro Replacement	E C																						
TBT Oakland Vent Structure	E C																						
TBT SF Joint Restoration	E C																						
TBT Stitching - SF	E C																						
TBT SF Vent Structure & Slope Protection	E C																						
TBT Stitching - Oakland	E C																						
Berkeley Hills Tunnel to Embarcadero	E C																						
Embarcadero to Daly City	E C																						
Oakland Y to South Hayward	E C																						
MacArthur to Ashby	E C																						
Balance of A-, R- and C-Line	E C																						
Systemwide (Shops, Yds, Bldgs & Other)	E C																						
Contingency	E C																						



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