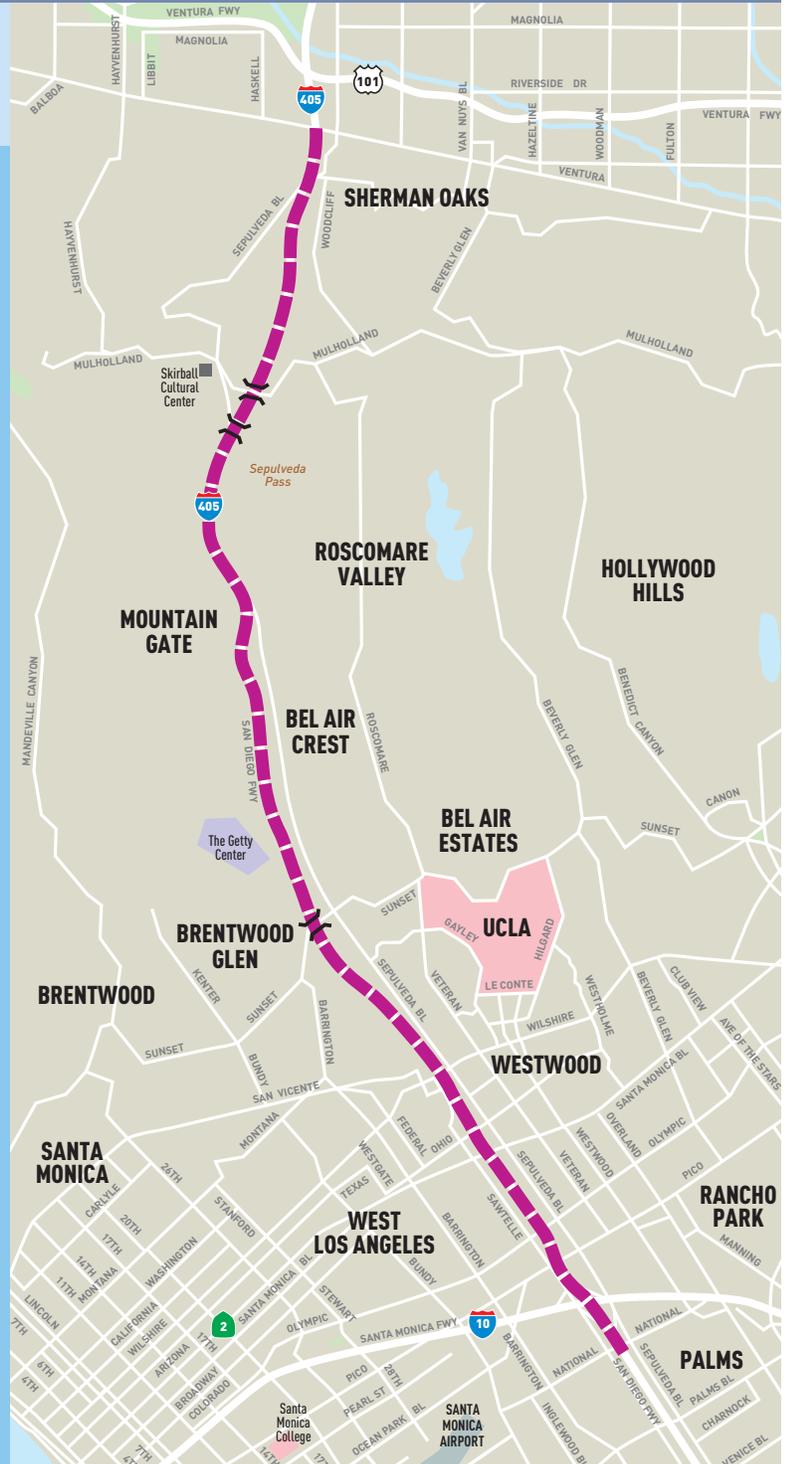




# I-405 Sepulveda Pass Improvements Project

## MONTHLY PROJECT STATUS REPORT

MAY 2012



Metro®



11-0063PJ © 2010 LACMTA

# **INTERSTATE 405 SEPULVEDA PASS IMPROVEMENTS PROJECT**

## **MONTHLY PROJECT STATUS REPORT**

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH GRANTS FROM THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) AND THE AMERICAN RECOVERY AND REINVESTMENT ACT (AARA) AND FUNDS FROM THE STATE OF CALIFORNIA.

**MAY 2012**

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## **PROJECT OVERVIEW & STATUS**

*The I-405 Sepulveda Pass Improvements Project will add a 10-mile HOV lane and improve supporting infrastructure such as ramps, bridges and sound walls on the San Diego Freeway (I-405); while widening lanes from the Santa Monica Freeway (I-10) to Ventura Freeway (U.S. 101). This project will reduce existing and forecasted traffic congestion on the I-405 and enhance traffic operations by adding freeway capacity in an area that experiences heavy congestion. In addition to these modifications, the project will improve both existing and future mobility and enhance safety throughout the corridor. Project benefits include a decrease in commuter time, reduce air pollution, and promote ridesharing. The I-405 Sepulveda Pass Improvements Project features include:*

- *Add a 10-mile HOV lane on the northbound I-405 between the I-10 and US-101 freeways*
- *Remove and replace the Skirball Center, Sunset Blvd. and Mulholland Dr. Bridges*
- *Realign 20 on and off ramps*
- *Widen 20 existing overpasses and structures*
- *Construct approximately 18 miles of retaining walls and sound walls*

*Interstate 405 (I-405), also known as the San Diego Freeway, is a north/south route classified as an interstate/interregional loop freeway. It is part of the National Highway System (NHS), originating at the I-5 in Orange County in the City of Irvine and terminating at the I-5 in Los Angeles County, in the City of Los Angeles near the community of Mission Hills.*

*The design-build contract Notice to Proceed (NTP) was given on 6/2/2009, with commencement of contract time (1550 calendar days) on August 31, 2009. Substantial completion is currently expected to occur in May 2013, with final acceptance of the project required by November 27, 2013.*

The Mechanically Stabilized Earth (MSE) walls failures that were under construction have been investigated by Contractor, Caltrans, Contractor Insurance Company, and Metro Quality staff. Contractor has started reconstruction of the MSE walls in May 2012 utilizing a new approved MSE system.

Project requested Kiewit to submit a revised Recovery Schedule in March 2012. The Project has not received this schedule yet but Area 5 and Mulholland schedules have been submitted and are currently being reviewed. The complete Recovery Schedule is expected by end of June 2012 which will include the results of the series of schedule meetings between Metro and Kiewit. Project is still pushing for May 31, 2013 substantial completion date, but based on Kiewit's unofficial comments about possible delays, it is not certain that this would be achievable at this point.

Key project activities for May 2012 include:

- Chevron relocation between Montana and Moraga is a significant concern as it will delay the construction of the Wilshire Ramps, scheduled for June 2012, if not completed on time.
- The Project has set a tentative date for the Mulholland Bridge Demolition (second half) with Kiewit, City, Caltrans, and Metro and currently waiting for concurrence from the Mayor's Office. A letter was sent to Kiewit regarding the timeline expectations which generated significant correspondence between Kiewit and Metro. The Project is

## PROJECT OVERVIEW & STATUS (Cont'd)

moving forward with original demolition date set by Kiewit in their April 2011 updated schedule.

- Metro, Caltrans and Elected Officials have been meeting to ensure Project will move forward on the GSA related work. The Project is currently working to resolve the issues and identify solutions on dual paths of GSA Project 5 and FBI Microwave works to ensure timely advancement of the job.

## MANAGEMENT ISSUES

**Concern No. 1:** Align I-405 Closer to the Getty Parking Structure (96" MWD Waterline)

**Status/Action** Resolving cost estimates and schedule concerns with Kiewit at this time, otherwise the change is going forward as approved. Fact finding started in May 2012.

**Concern No. 2:** Provisional Sums

**Status/Action** There will be a significant cost increase in Provisional Sums caused by unknown utility conflicts at time of bid. At this time, Project is reviewing Utility scopes to verify their accuracy and identify other issues, such as future changes, that could impact the project later.

**Concern No. 3:** Reversible Lane Project on Sepulveda

**Status/Action** Project has decided to undertake part of this work and is proceeding in that direction. Metro does not have a timetable for resolution at this time.

**Concern No. 4:** Review Support from COLA

**Status/Action** It is Project's understanding that LABOE is in the process of hiring additional staff to support Larry Hsu on Metro projects. LADOT is also working on a plan to hire new staff to support Metro projects.

## MANAGEMENT ISSUES (Cont'd)

**Concern No. 5:** Kiewit and Metro Estimating Approaches

**Status/Action** Metro and Kiewit have found it difficult to reconcile estimates. While Metro implemented staff changes and refocused efforts on estimates to try and resolve issues with Kiewit, the Project still continues to have problems. At the Executive Partnering Meeting, Kiewit mentioned that they would like to reconcile the estimates and finalize the associated payments. In the past several months, Kiewit has quoted the outstanding numbers to be in the range of \$45 to \$70 million. These numbers were checked against Project records and the result was not close to Kiewit's figures. It is obvious that Kiewit is asking for reimbursement of disputed items which are documented as non-payable. The estimating group is still working to prepare a timetable for all estimates to be completed, inclusive of PSAs and change orders.

**Concern No. 6:** Mulholland Bridge Realignment

**Status/Action** Project has set tentative date for Mulholland Bridge demolition and is waiting for concurrence from Mayor's Office.

**Concern No. 7:** Recovery Schedule

**Status/Action** Kiewit is having problems with the MSE walls which may impact the schedule. The Project is working with Kiewit and Caltrans to determine means and methods to achieve Substantial completion of May 31, 2013, although the latest impacts may make it harder to achieve this date. Project requested Kiewit to submit a revised Recovery Schedule in March 2012. The Project has not received this schedule but Area 5 and Mulholland Schedules have been submitted. The current assessed completion date is December 2013 which puts the project at a potential 6 months delay. The Project recently completed series of schedule review meetings with Kiewit, the initial result of which was that completion of all Areas are within the range of late July 2013 to early November 2013 except Area 4. Project believes that all Areas have a potential to be completed by August 31, 2013 except Area 4. Metro will continue to work with Kiewit on schedule issues on the project.

**Concern No. 8:** Project Cost and Schedule Reassessment

**Status/Action** The Project has developed a preliminary total project cost forecast which has identified a potential cost overrun due to increased labor cost, Provisional Sums and utilities. Project believes that this overrun would be offset by the Betterments and cost recovery potential from other Agencies, if the cost is recovered. Metro is currently reviewing the report.

## MANAGEMENT ISSUES (Cont'd)

**Concern No. 9:** Real Estate Cost Reassessment

**Status/Action** Caltrans is currently updating the Real Estate capital cost requirements as a comparison between the budget, expenditures, and estimate to complete. This will be used as a tracking and measurement tool against Project Cost Forecast.

**Concern No. 10:** Widening of Sepulveda between Montana and Church

**Status/Action** This is part of the Westwood Hills lawsuit settlement and resolution of issues with the LADOT regarding the width of Sepulveda. The Project is behind fact-finding and cost resolution.

**Concern No. 11:** Retaining Walls 1720 and 1730

**Status/Action** The changes to these walls are related to the potential Westwood Hills lawsuit settlement, LADOT requests for widening of Sepulveda, and reduced work for Kiewit at this location. Metro has been fact-finding with Kiewit for quite some time to get closer to resolving cost estimate differences. Area 5 (Getty) is taking priority so the resolution of this issue may be delayed. Metro Board approved the initial change and the Project is working under the assumption that this work is a credit to the project.

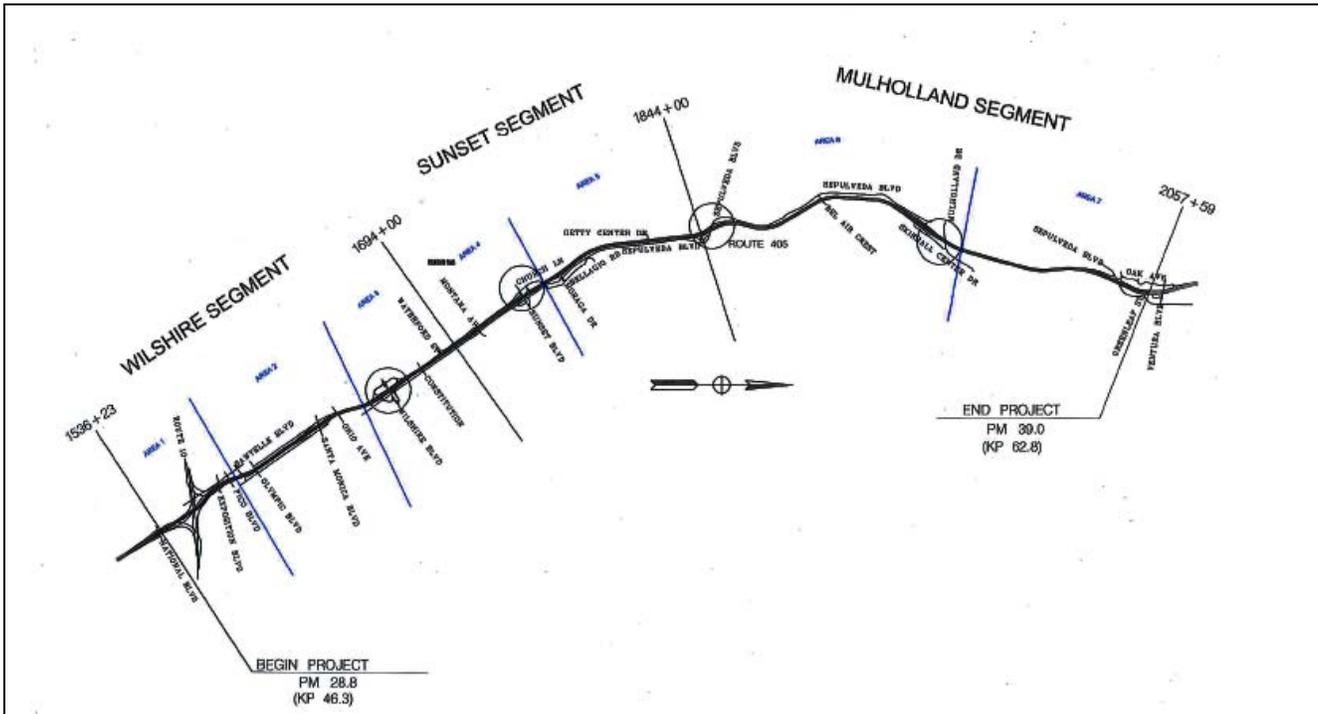
**Concern No. 12:** Giro Lawsuit

**Status/Action** Project is moving forward with revised ramp design based on phased implementation of this new ramp construction. Cost and schedule impacts are being assessed and will not be determined until a preliminary design for Phase I and II is completed.

**Concern No. 13:** MSE Walls Failure

**Status/Action** The MSE walls failure that were under construction have been investigated by Contractor, Caltrans, Contractor Insurance Company, and Metro Quality staff. Contractor appears to have a reason for the failure but is working on contractual issues with the wall subcontractor and is still having discussions with Caltrans on their concerns with the failed walls. An investigation report was to be prepared and submitted by end of January 2012, but Kiewit has not issued the report as of this status update and Project has written letters to Contractor requesting the Forensic Study. Contractor has indicated they will deconstruct all MSE walls except one and will replace them with a new wall system. If the contractor decides to replace all of the walls, the study is not needed. But until then, the Project will request resolution from Kiewit. This appears to be heading to a lawsuit between SSL and Kiewit

## PROJECT SCOPE



The I-405 Sepulveda Pass Improvements Project is a Design-Build contract to add a 10-mile High Occupancy Vehicle (HOV) lane on the northbound San Diego Freeway (I-405) between the Santa Monica (I-10) and Ventura (US 101) Freeways. The purpose of the project is to reduce congestion by adding the HOV lane and closing the HOV gap, which will provide a continuous HOV lane from the Orange County Line to the I-405/US-101 interchange. The scope entails an 11-foot half median, one 12-foot HOV lane, a 1-foot HOV buffer, five 12-foot mixed-flow lanes, and a 10-foot outside shoulder.

Most of the freeway widening required for this project occurs along the east side of I-405 along Sepulveda Blvd. between Montana Ave. and Moraga Dr. and between Getty Center Drive and the northbound Getty Center off-ramp. Sepulveda Blvd. is going to be slightly realigned at the relocated southbound I-405 Skirball Center Drive on/off-ramps in order to add a left-turn lane to the on-ramp.

Some freeway widening also occurs along the west side of the freeway between Olympic Blvd. and Waterford Street and between Bel Air Crest to just north of Ventura Blvd.

In order to reduce accidents associated with traffic on the ramps, project scope includes several interchange improvements as detailed below:

## PROJECT SCOPE

- Wilshire Blvd. interchange in both directions  
The northbound on-ramp from eastbound Wilshire Blvd. is grade-separated from the northbound off-ramp to westbound Wilshire Blvd. and from Sepulveda Blvd. The southbound off-ramp to eastbound Wilshire Blvd. is grade-separated from the southbound off-ramp to westbound Wilshire Blvd.
- Northbound I-405 Sunset Blvd. interchange  
The northbound I-405 off-ramp to eastbound Sunset Blvd. is widened to include one more lane. Two exclusive 12-foot lanes on the reconstructed Sunset Blvd. overcrossing and two 12-foot lanes on the on-ramp are provided for the northbound I-405 on-ramp from eastbound Sunset Blvd. In the eastbound direction three 12-foot lanes and in the westbound direction three 11-foot lanes are provided which solves the existing reduction from three lanes to two lanes in the eastbound direction. In both directions, 4-foot shoulders and 5-foot sidewalks as well as a 13-foot median are provided on the Sunset Blvd. overcrossing.
- The irregular northbound I-405 on/off-hook ramps at the Getty Center interchange are reconfigured to a standard diamond interchange to increase stopping sight distances in order to improve safety.
- The southbound I-405 Skirball Center Drive interchange is relocated to form a “T” intersection with Sepulveda Blvd. This eliminates the existing intersection at the end of the southbound I-405 Skirball Center Drive off-ramp.
- The southbound Valley Vista/Sepulveda Blvd. off-ramp is reconstructed due to freeway widening.

A total of 12 soundwalls and 54 retaining walls within the project limits are constructed at embankments where right-of-way is constrained.

A total of 12 undercrossings within the project limits are widened. Three overcrossings at Sunset Boulevard, Skirball Center Drive, and Mulholland Drive are replaced.

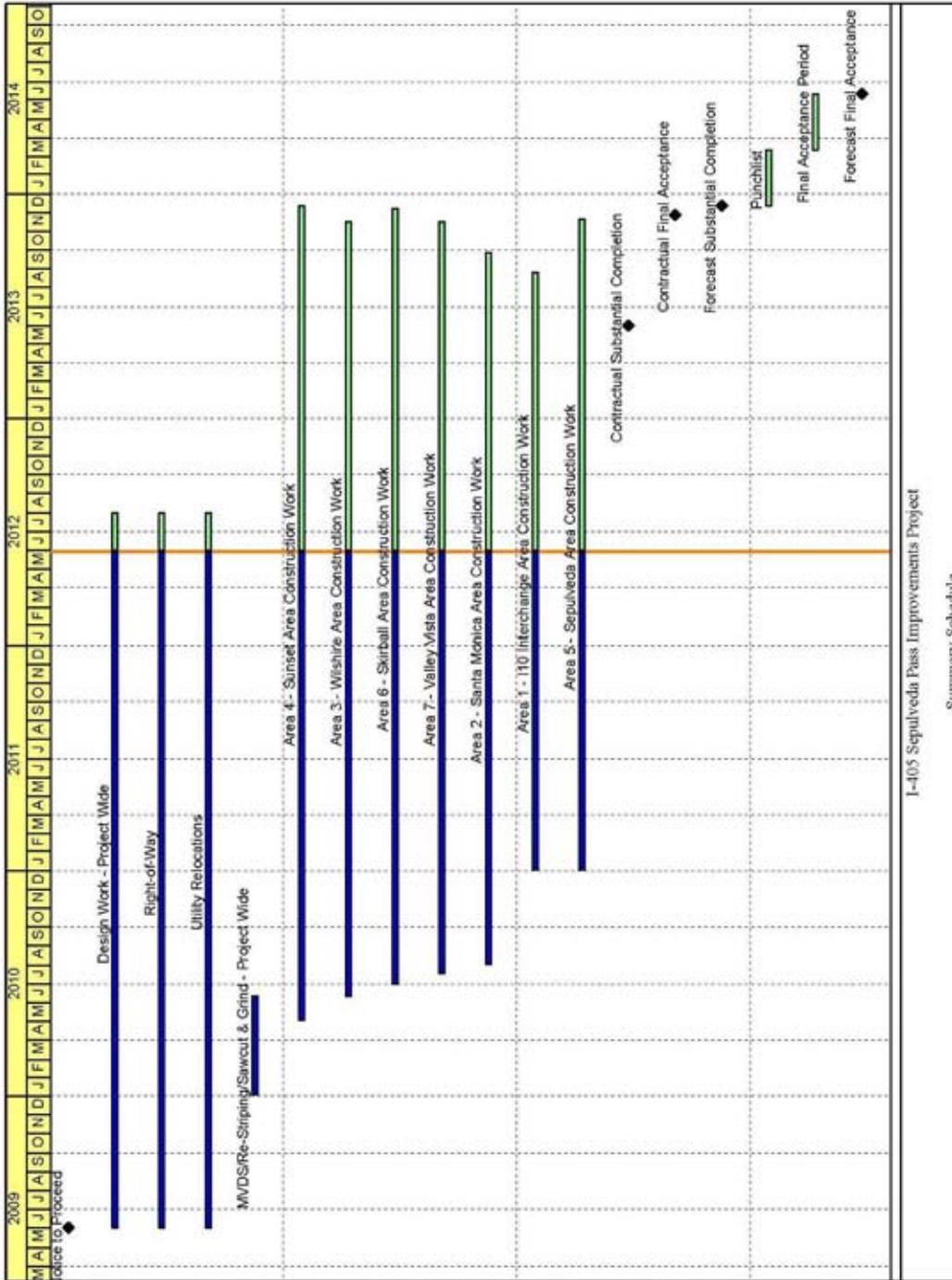
**KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD**

	Milestone Date	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12
Bridge 4 - Santa Monica SB & NB - Completed Pouring Top Decks & Diaphragms	5/2/12A	○					
Bridge 22 - Mulholland - Begin Pouring Inside Stems	5/3/12A	○					
MSE Wall 1672 - Construction of MSE Walls is Resumed.	5/4/12A	○					
Bridge 16 - Sunset OC - Installation of Precast Concrete Girders (north) Completed	5/4/12A	○					
Bridge 20 Bel Air Crest UC - Installation of Precast Concrete Girders Completed	5/24/12A	○					
NW 1 Connector Ramp - I-10 WB to I-405 NB Ramp Lanes completed	5/31/12A	○					
Bridge 16 Sunset OC - Complete PC Girder Top Deck, Diaphragm, & Bridge Bearing (North Side)	6/18/12		○				
Bridge 20 Bel Air Crest UC - Begin Installation of Precast Girder Top Deck & Diaphragms Phase 2	6/20/12*		○				
Bridge 10 - NB405 to WB Wilshire Off-Ramp & Bridge 11 - WB Wilshire to NB405 On-Ramp - Begin 90 Day Closure of Existing Ramps	6/22/12		○				
Bridge 18 - Getty Center UC - Begin Cast in Place Bridge Superstructure	6/22/12		○				
Bridge 21 - Skirball Center OC - Complete North Side of Bridge	6/22/12		○				
Bridge 21 - Skirball Center OC - Begin Demolition of South Side of Bridge	6/25/12		○				
Bridge 10 & 11 - WB Wilshire Off & WB Wilshire On - Complete Demolition of Bridge Structures	6/28/12		○				
Bridge 1 NW Connector - Begin Installation of CIP Box Girder (Top Deck)	7/09/12*			○			
Bridge 10 & 11 - WB Wilshire Off & WB Wilshire On - Complete Driving Steel Piles (72EA) (East)	7/9/12			○			
Bridge 1 NW Connector - Complete Installation of CIP Box Girder (Top Deck)	7/17/12*			○			
Bridge 12 - Constitution UC - Complete Bridge work	7/24/12			○			
Bridge 21 - Skirball Center OC - Complete Demolition of South Side of Bridge	7/24/12			○			
Bridge 4 - Santa Monica SB & NB - Complete Bridge work	7/25/12			○			
Bridge 3 Olympic - Complete Bridge Work	8/2/12*				○		
Bridge 16 Sunset OC - Complete Bridge Construction (North side)	8/3/12*				○		
 Metro Milestone  Design/Build  Third Parties Approval							
<b>CT</b> Caltrans Milestone  New Date  <b>FHWA</b> FHWA Federal Highway Administration Approval							

### KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

	Milestone Date	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12						
Bridge 10 & 11 - WB Wilshire Off & WB Wilshire On - Complete Setting Pre-cast Girders.	8/8/12				○								
Bridge 22 - Mulholland - Begin Forming Top Deck and Edge of Deck	8/9/12*				○								
Bridge 5 (A&B) - Ohio - Complete Bridge Work	8/23/12*				○								
Bridge 10 & 11 - WB Wilshire Off & WB Wilshire On - Begin F/P/S Top Deck	8/25/12				○								
Bridge 22 - Mulholland - Complete Forming Top Deck and Edge of Deck	8/30/12*				○								
Bridge 10 & 11 - WB Wilshire Off & WB Wilshire On - Complete Bridge Work	9/11/12					○							
Bridge 7 NB405 to EB Wilshire Off-ramp - Begin Installation of CIP Box Girder (Stem Spans 2-1) - PH 1	9/12/12*					○							
Bridge 8 - EB Wilshire to NB405 On-ramp - Begin installation of CIP Box Girder (Stems)-(abut #9, bent 6-8) - PH 2	9/19/12*					○							
Bridge 22 Mulholland OC - Begin Removal of Falsework (south side)	9/25/12*					○							
Bridge 2-Exposition - Begin Installation of CIP Box Girder (Stems) Stage 1 (Span 4-8)	10/10/12*						○						
Bridge 14- NB 405 Sunset Blvd. off-ramp Begin closure window (120 day maximum closure)	10/16/12*						○						
Bridge 14- Sepulveda Blvd. UC Sunset Blvd. Off-ramp - Begin Demo of Bridge Structure	10/16/12*						○						
<table border="0"> <tr> <td> Metro Milestone</td> <td> Design/Build</td> <td> Third Parties Approval</td> </tr> <tr> <td><b>CT</b> Caltrans Milestone</td> <td>* New Date</td> <td><b>FHWA</b> FHWA Federal Highway Administration Approval</td> </tr> </table>								 Metro Milestone	 Design/Build	 Third Parties Approval	<b>CT</b> Caltrans Milestone	* New Date	<b>FHWA</b> FHWA Federal Highway Administration Approval
 Metro Milestone	 Design/Build	 Third Parties Approval											
<b>CT</b> Caltrans Milestone	* New Date	<b>FHWA</b> FHWA Federal Highway Administration Approval											

## PROJECT SUMMARY SCHEDULE



I-405 Sepulveda Pass Improvements Project

Summary Schedule

## CRITICAL PATH NARRATIVE

The project has several critical paths which may potentially change as the work progresses. Based on the current project update, the primary critical path runs through construction of Area 7 Storm Drains. It then continues through the demolition and construction of Bridge 23, Sepulveda Blvd UC. The path then continues with installation of drains and median work at Area 7 Valley Vista, and ends with Skirball Area median work.

Due to construction re-sequencing, Mulholland Bridge work has been removed from the critical path.

## PROJECT COST STATUS

I-405 SEPULVEDA PASS IMPROVEMENTS PROJECT  
 FEDERAL PROJECT #: SARRA-405-3(015)N, METRO PRIME CONTRACT# C0882  
 METRO CONSTRUCTION MANAGEMENT DIVISION / CALTRANS  
 COMBINED COST REPORT BY PHASE  
 PERIOD ENDING: MAY 2012  
 DOLLARS IN THOUSANDS

PHASE #	PHASE CODE	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
				PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
0	PA&E	PROJECT APPROVAL & ENVIRO DOCS	22,000	-	21,457	-	21,457	-	21,457	-	21,457	-
1	PSE	PLANS, SPECS, & ENGINEERING	63,100	-	25,574	-	25,574	-	25,574	-	25,646	72
2	RS	RIGHT-OF-WAY SUPPORT	14,000	-	9,543	118	5,441	118	5,441	-	9,543	-
3	CS	CONSTRUCTION SUPPORT	28,000	-	67,813	805	51,337	1,979	43,351	-	77,072	9,259
4	C	CONSTRUCTION	823,900	-	810,427	14	737,478	12,376	400,435	-	852,128	41,701
9	RC	RIGHT-OF-WAY CAPITAL	83,000	-	99,186	209	35,636	229	27,323	-	48,154	(51,032)
<b>SUBTOTAL PROJECT</b>			<b>1,034,000</b>	<b>-</b>	<b>1,034,000</b>	<b>1,146</b>	<b>876,923</b>	<b>14,702</b>	<b>523,582</b>	<b>-</b>	<b>1,034,000</b>	<b>-</b>
4	C	CONSTRUCTION OF CITY OF L.A.'S REVERSIBLE LANES PROJECT	-	-	6,000	-	-	-	-	-	6,000	-
<b>TOTAL PROJECT</b>			<b>1,034,000</b>	<b>-</b>	<b>1,040,000</b>	<b>1,146</b>	<b>876,923</b>	<b>14,702</b>	<b>523,582</b>	<b>-</b>	<b>1,040,000</b>	<b>-</b>

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH APRIL 30, 2012.  
 KIEWIT EXPENDITURES ARE ONLY THROUGH FEBRUARY 29, 2012 DUE TO INVOICING LAG.

## PROJECT COST ANALYSIS

### Original and Current Budgets

The Original Budget reflects the Metro Board adopted Life-of-Project (LOP) Budget which was approved in April 2009 in the amount of \$1,034.0 million. An additional \$6.0 million was approved by the Metro Board to add the City of LA's Reversible Lanes Project Scope funded by the City of Los Angeles. This brings the Total Current Budget to \$1,040 million.

### Current Budget and Current Forecast

The Current Budget and Forecast remain the same at \$1,040.0 million. Trends 1 through 67 have been approved and are included in the Current Forecast. Project Budget Change Requests 1, 2, & 3 (PBCR) have been approved and included in the Current Budget.

### Commitments

The Commitments increased by \$1.1 million this period primarily for purchase orders associated with services in support of community relations, City of LA, utility relocations, real estate purchases and Metro/Caltrans staff charges.

### Expenditures

Expenditures are cumulative through April 2012. The expenditures increased by a total of \$14.7M this period. Expenditures for this period within the construction support phase included Metro and Caltrans project staff and miscellaneous consultant contract services. Costs in the right-of-way categories were for 3<sup>rd</sup> party Metro staff costs and for third party and utility relocation expenditures. Caltrans right-of-way expenditures for the period included staff charges for right-of-way support and real estate acquisitions. One invoice for Kiewit for the period ending February 2012, in the amount of \$12.4M, was processed by Metro Accounting this period. The \$523.6 million in Project Expenditures to date represents 50.4% of the Current Budget.

**FINANCIAL/GRANT STATUS – ORIGINAL SCOPE ACTIVITIES**

MAY 2012		STATUS OF FUNDS BY SOURCE							
SOURCE	(A)	(B)	(C)	(D)		(E)		(F)	
	APPROVED BUDGET	TOTAL FUNDS ANTICIPATED	TOTAL FUNDS AVAILABLE	COMMITMENTS \$	(D/B) %	EXPENDITURES \$	(E/B) %	BILLED TO FUNDING SOURCE \$	(F/B) %
FEDERAL SAFETEA-LU	\$117.000	\$117.000	\$117.000	\$117.000	100%	\$38.123	33%	\$38.123	33%
FEDERAL ARRA	\$189.900	\$189.900	\$189.900	\$189.900	100%	\$189.900	100%	\$189.900	100%
STATE CMIA	\$614.000	\$614.000	\$254.700	\$515.798	84%	\$260.399	42%	\$256.855	42%
STATE TCRP	\$90.000	\$90.000	\$42.000	\$42.000	47%	\$33.035	37%	\$33.035	37%
STATE RSTP	\$10.100	\$10.100	\$10.100	\$10.100	100%	\$0.000	0%	\$0.000	0%
PROPOSITION C 25%	\$13.000	\$13.000	\$13.000	\$2.125	16%	\$2.125	16%	\$2.125	16%
SUB TOTAL FUNDS	\$1,034.000	\$1,034.000	\$626.700	\$876.923	85%	\$523.582	51%	\$520.038	50%
CITY OF LA **	\$6.000	\$6.000	\$0.000	\$0.000		\$0.000		\$0.000	
TOTAL FUNDS	\$1,040.000	\$1,040.000	\$626.700	\$876.923		\$523.582		\$520.038	

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH APRIL 2012.  
 \* BILLING AMOUNT IS LESS THAN EXPENDITURES AMOUNT DUE TO SYSTEM LAG IN SUBMITTING INVOICES TO CALTRANS.  
 \*\* CONSTRUCTION OF CITY OF LA REVERSIBLE LANES PROJECT.

**STATUS OF FUNDS ANTICIPATED**

**FEDERAL SAFETEA-LU:** \$117M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

**FEDERAL ARRA:** \$189.9M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro with consultation with FHWA.

**STATE CMIA:** State Proposition 1B Bond sales provided \$254.7M to the project. Funds are available for drawdown.

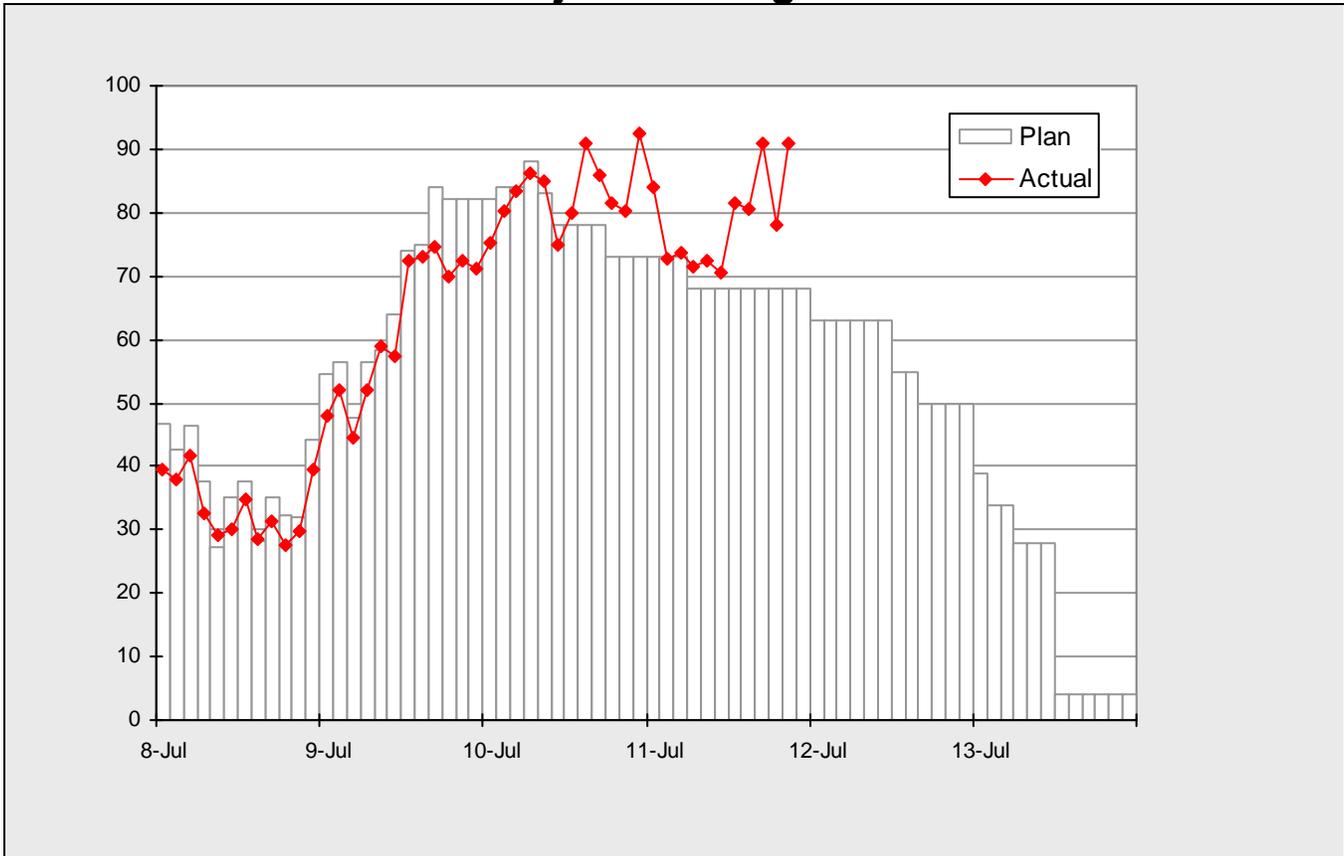
**STATE TCRP:** \$42M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

**STATE RSTP:** \$10.1M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

**PROPOSITION C 25%:** The Metro Board approved the allocation of \$13M to the Project.

## STAFFING STATUS

### Total Project Staffing - FTEs

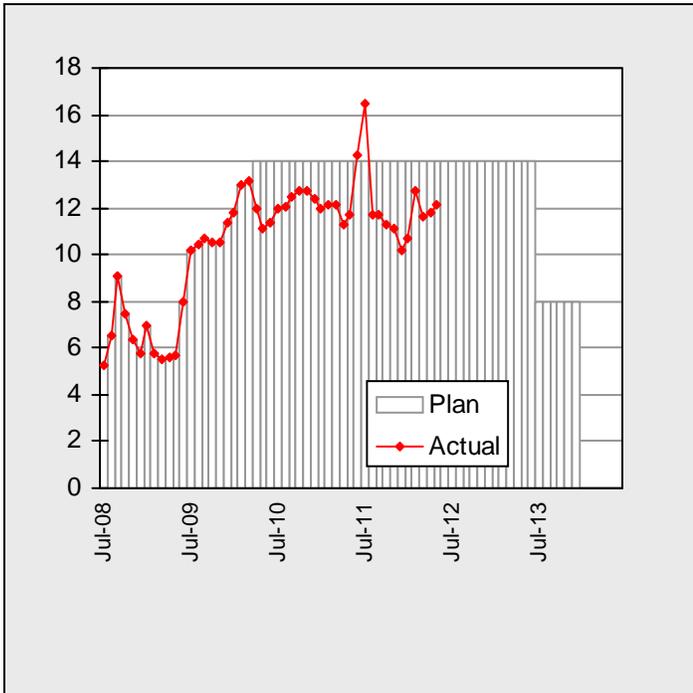


### Total Project Staffing

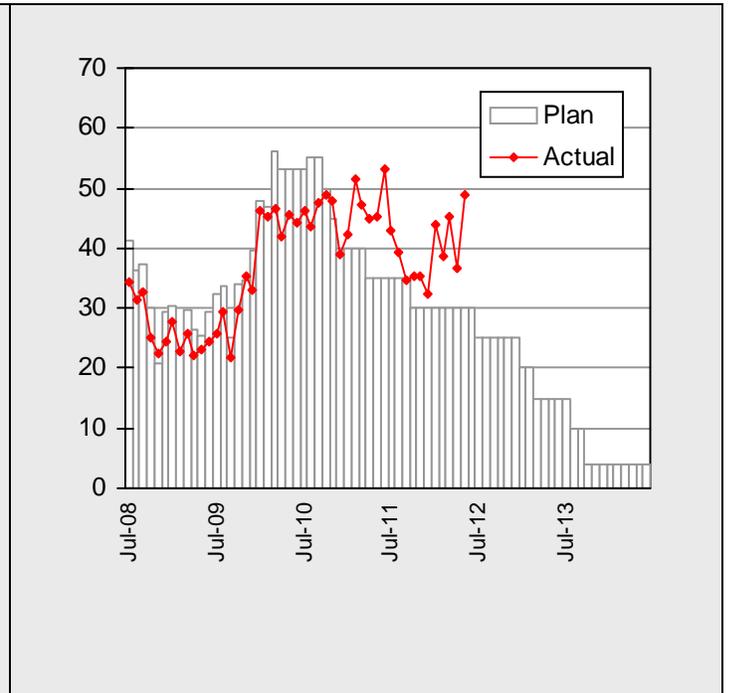
Project Staffing Plan is presently being reassessed as a component of the Cost Schedule Reassessment.

### STAFFING STATUS

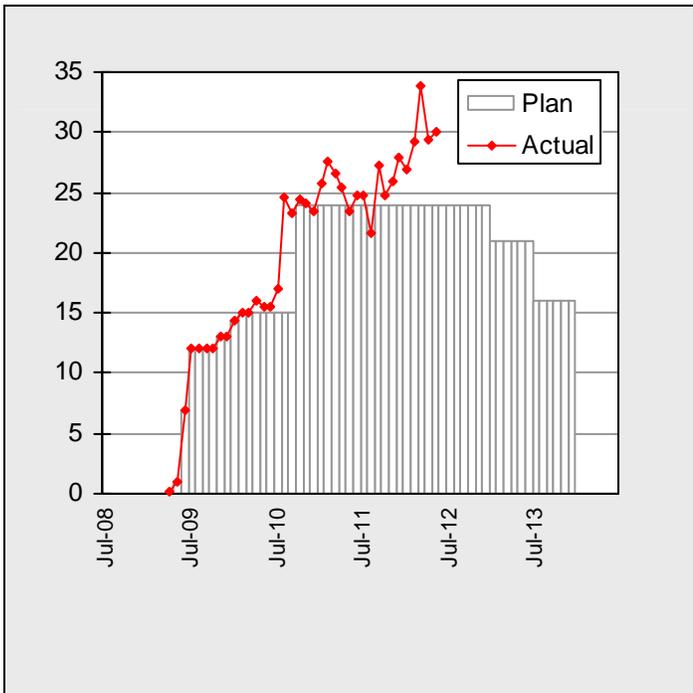
MTA - FTEs



CALTRANS- FTEs



STANTEC - FTES



## REAL ESTATE STATUS

The Real Estate acquisition process is proceeding and the Project is working on obtaining and releasing the past due parcels to the Contractor.

- Parcel 79619 (LACMTA) – Access has been provided but parcel has not been acquired yet. This parcel has no apparent schedule impact.
- Parcel 79585 (Rodeo Realty) – Right-of-Entry has been acquired that will allow construction to proceed. This parcel has no apparent schedule impact.
- Parcel 79710 (Luxe Hotel) – Right-of-Entry has been acquired that will allow construction to proceed. This parcel has no apparent schedule impact.
- Parcel 80250 (4450 Sherman Oaks Circle) – Right-of-Entry has been provided but the parcel has not been acquired yet. This parcel has no apparent schedule impact.
- Parcel 79692 (Skirball) – Right-of-Entry has been provided for the additional ROW but the parcel has not been acquired yet. This parcel has no apparent schedule impact.
- Project is moving forward with the compensation and Temporary Construction Easements with the 22 parcels in the Westwood Hills Area.

## ENVIRONMENTAL STATUS

- Ongoing coordination with Santa Monica Mountains Conservancy (SMMC) and National Park Service on wildlife crossings and the redesign of NB Getty on-ramp and the associated wildlife culvert,
- Removed Black Phoebe nest from the Wilshire Blvd. Interchange. Prepared a mitigation/restoration plan to submit to the CDFG.
- Ongoing coordination regarding landscaping along Sepulveda Blvd. between Constitution and Sunset and required mitigation associated with tree removal from City and State R/W.
- Biennial Report Exemption submitted to DTSC.

## COMMUNITY RELATIONS STATUS

- Distributed construction notices for the following construction activities: Pico and Sawtelle, Ohio storm drain, catch basin grinding at NB Sepulveda right turn pocket, full Sunset and Church Lane closure for utility work, full freeway directional closures from Sunset to Getty, EB Moraga daily closures for vault work, Sunset traffic reconfiguration for temporary left turn pocket, Ovada/Sepulveda nightly closure for sewer line work, Sherman Oaks Bridge widening, Mulholland Bridge closure updates, Bel Air Crest Bridge girder placements, Bel Air Crest survey work and Valley Vista tree removal.
- Participated in the following meetings: Elected Officials Briefing, West Los Angeles Police Department Traffic Meeting, Westside Service Council Meeting, Public Works Manager's Briefing, Wilshire Community Meeting, 1720/1730 Homeowner Meeting, Carmageddon II Briefing, CD Emergency Response Briefing, VA Wilshire Ramp Briefing, TriCal Construction On-site Meeting, Bureau of Street Services Landscape Meeting, Council District 4 Briefing and Royal Woods Homeowners Meeting.
- Coordinated the following work activities: 3 week look-ahead at Beloit, south of Ohio, 3 week look-ahead at Beloit, south of Santa Monica, 3 week look-ahead schedule distribution to residents of Walls 1720/1730, global traffic coordination, Metro Ops regarding Wilshire ramp, traffic evaluation for Wilshire, UCLA Bike Week event, weekly distribution of Sepulveda activities to residents of Walls 1720/1730, additional traffic measures and signage for Sepulveda lanes closures, access for Bel Air Crest residents during closures, Mulholland closures around special community events, enforcement of signage placement for Sherman Oaks Bridge widening work, address utility markings in Sherman Oaks, removal of prematurely placed no parking signs, extension of Valley Vista temporary wall and power shutdown affecting Milken School.
- 3,814 followers on Twitter.
- 5,764 likes on Facebook.
- 288 subscribers on Nixle.
- 46,556 page views on Website.

## QUALITY ASSURANCE STATUS

- Metro Quality participated in:
  - Thirty-nine Pre-Activity Meetings.
- Approved eight new MSE Wall Inspectors.
- Reviewed Revision 4 update to the Project Quality Management System Manual.
- Forty Nonconformance Reports (NCRs) were issued this month.
- Seven Deficiency Reports (DRs) were issued this month.

## SAFETY AND SECURITY STATUS

- One recordable injury occurred during May. A worker injured his finger in the crush point of a hydraulic shoring jack. The worker whose knee was injured in September continues to be off work completing prescribed physical therapy.
- Safety Staff participated in pre-activity (readiness review) meetings to ensure compliance with approved Work Plans and contract specifications.
- Construction activities are monitored during day and night shifts to ensure contractor compliance with contract specifications. This monitoring has included continuing to document noise readings to assist Community Affairs staff.
- Safety staff attended weekly Progress Meeting, Foreman's Weekly Safety Meetings and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- May Contractor Work Hours (Design & Construction): 176,902
- Contractor – Project to Date Work Hours (Design & Construction): 3,516,055
- Total Project to Date Work Hours (Contractor & the IPO Staff): 3,938,077
- Project to Date Recordable Injury Rate: 0.6 (Eleven Recordable Injuries) (each rate is per 200,00 work hours)
- Project to Date Total Time Away Injury Rate: 0.1 (Two Time Away From Work Injuries)
- Project to Date Total Days Away Rate: 18.8 (372 Days Away From Work)
- Metro night shift staff continues to review yard and other security issues as part of their night time project reviews.

**THIRD PARTY AGREEMENT STATUS**

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles	MCA	12/12	6/09	A stand-alone Master Cooperative Agreement (MCA) between the City of Los Angeles and LACMTA is currently being drafted for the I-405 Project.
Los Angeles County Department of Public Works/Los Angeles Flood Control District	MCA	Cancelled	Cancelled	On advice of County Counsel, LACMTA is not required to enter into a Master Cooperative Agreement with the Los Angeles County Department of Public Works/Los Angeles Flood Control District since the I-405 Project is a State Project, not a LACMTA Project.
Utility Owners	Utility Agreements	Various	Various	Caltrans style Utility Agreements (similar to MTA Work Order Authorizations) will be completed as relocation plans are approved for each location.

**CONTRACT STATUS**

<b>I-405 Sepulveda Pass Improvements Project</b>		<b>Contract No.: C0882</b>					
<b>Design/Build Contractor: Kiewit</b>		<b>Status as of: June 1, 2012</b>					
<p><b>Progress/Work Completed:</b> Major work started/completed this period:</p> <ul style="list-style-type: none"> <li>- Bridge 16 Sunset OC - Concrete girders are placed.</li> <li>- Bridge 20 Bel Air Crest UC - Concrete girders are placed.</li> <li>- Bridge 4 NB and SB - Top deck and Diaphragms are poured.</li> <li>- Bridge 21 - Approach slab construction us started.</li> <li>- Bridge 22 Mulholland OC - Concrete stems are poured.</li> <li>- MSE Wall construction is resumed.</li> <li>- Structure construction for Bridge 7 Bent 3 is started within the GSA Property.</li> <li>- NW 1 Connector Ramp is opened to traffic.</li> <li>- Maintenance during construction - SWPPP cleanout and repairs, graffiti removal from k-rails, trash and debris removal.</li> </ul> <p><b>Areas of Concern:</b></p> <ul style="list-style-type: none"> <li>- Realignment of NB Getty on-ramp due to Giro Property ROW.</li> <li>- Mulholland Bridge open to traffic.</li> <li>- Landslide at Wall 2004.</li> <li>- Area 4 utilities.</li> </ul>		<p><b>Major Activities (In Progress):</b></p> <ul style="list-style-type: none"> <li>- Grading and paving.</li> <li>- Construction of Retaining Walls and sound walls.</li> <li>- Bridge 1 and 2 construction.</li> <li>- Bridge 3 construction.</li> <li>- Bridge 4a/4b construction.</li> <li>- Bridge 5a/5b construction.</li> <li>- Bridge 7 construction.</li> <li>- Bridge 8 and Bridge 9 construction.</li> <li>- Bridge 12 and Bridge 13 construction.</li> <li>- Bridge 15 and Bridge 16 construction.</li> <li>- Bridge 17 and Bridge 18 construction.</li> <li>- Bridge 19 and Bridge 20 construction.</li> <li>- Bridge 21 and Bridge 22 construction.</li> <li>- Bridge 23 construction.</li> <li>- Maintenance during construction.</li> </ul> <p><b>Major Activities Next Period:</b></p> <ul style="list-style-type: none"> <li>- Bridge 22 Mulholland OC - Complete pouring concrete bottom deck.</li> <li>- Wilshire Area - Bridges 10 and 11 - 90 day closure begins.</li> <li>- Bridge 10 and 11 Wilshire NB off and on ramps - demolition begins.</li> <li>- Bridge 21 Skirball OC - North side is opened to traffic.</li> <li>- Bridge 21 Skirball OC - South side demolition is started.</li> </ul>					
			Original Baseline	Time Extension	Current Contract	Forecast Completion	Variance Cur-Fcast
Commencement		08/31/09	0	08/31/09	08/31/09	0	
Completion		05/31/13	0	05/31/13	12/11/13	-194	
Punchlist Complete		08/29/13	0	08/29/13	03/11/14	-194	
Final Acceptance		11/27/13	0	11/27/13	06/09/14	-194	
<b>Schedule Summary:</b>		<b>Cost Summary: \$ In 000's</b>					
Notice of Award	04/29/09	1. Award Value:		720,922			
Notice to Proceed	06/02/09	2. Executed Modifications:		56,982			
Original Contract Duration (CD)	1640	3. Approved Change Orders:		553			
Approved Time Extensions (CD)	0	4. Current Contract Value (1 + 2 + 3):		778,457			
Current Contract Duration (CD)	1640	5. Incurred Cost:		414,659			
Elapsed Time from NTP (CD)	1096	6. Percent Incurred Cost:		53.3%			
Contract Elapsed Time Percent	66.8%						

## CHRONOLOGY OF EVENTS

May 18, 2007	The Draft Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) is issued.
May 22, 2007 to October 1, 2007	Public review of draft EIS.
February 29, 2008	The Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) is issued.
March 10, 2008	The Final Environmental Impact Report (EIR)/Environmental Impact Statement (EIS) errata with U. S. General Services Administration (GSA) comments is issued.
March 14, 2008 to April 14, 2008	Public review of Final EIS.
April 25, 2008	Record of Decision (ROD) approved.
October 10, 2008	LACMTA issued Invitation For Bid (IFB) for the project.
February 20, 2009	Project bids opened.
April 23, 2009	LACMTA Board authorized the Chief Executive Officer to award Design-Build Contract C0882 to Kiewit Pacific Co.
April 23, 2009	LACMTA Board approved establishing a budget of \$1.034 billion for project 405523.
April 23, 2009	LACMTA awarded Contract C0882 to Kiewit Pacific in the amount \$694,156,000 to include Schedules A, C, and H (Option 4).
April 29, 2009	LACMTA issued a revised NOA to Kiewit Pacific in the amount \$720,922,000 to include Schedules A, C, E (Option 1), F (Option 2), G (Option 3), and H (Option 4).
June 2, 2009	LACMTA issued Notice to Proceed to Kiewit Pacific for the Design-Build Contract C0882.
August 31, 2009	Contract Commencement Date.
September 24, 2009	Kiewit Pacific submitted the Project Baseline Schedule.
October 14, 2009	Project Design Quality Management Plan approved.

## CHRONOLOGY OF EVENTS (Cont'd)

December 14, 2009	Project Quality Management System approved.
January 20, 2010	Project Baseline Schedule was approved.
January 27, 2010	Roadway Restriping commenced.
March 12, 2010	Major Project Permits were obtained; Permit 401 – Water Quality Control Board, Permit 404 – U.S. Army Corps of Engineers, and Permit 1600 – California Department of Fish & Game.
May 31, 2010	The Project completed one year without a Recordable Injury.
July 23, 2010	Sunset Bridge major demolition of the south side top deck and center column.
August 2, 2010	Commenced construction on Bridge 4a/b.
August 16, 2010	Commenced ExxonMobil 16" utility relocation at Bridge 16.
August 20, 2010	Operating Engineers Local 12 initiate labor action by striking.
August 24, 2010	Completed ductbank work on Sepulveda for DWP utility undergrounding.
August 24, 2010	Commenced construction of Walls 1720/1730.
August 24, 2010	ITS Backbone is cut.
September 7, 2010	DWP started pulling wires for utility undergrounding on Sepulveda.
September 9, 2010	Operating Engineers Local 12 Labor action is settled and strike ends.
September 13, 2010	Completed the excavation of Roadway at 1685/1691.
September 15, 2010	Completed the removal of Wall 1665.
September 18, 2010	Completed installation of Temporary walkway at Skirball Bridge.
September 28, 2010	Pioneer access to Sunset on-ramp, Bridge 15 Abutment 1.

## CHRONOLOGY OF EVENTS (Cont'd)

October 12, 2010	Began excavation of Sunset Bridge 16 Abutment 1 Footing.
October 12, 2010	Began demolition of Skirball Bridge 21.
October 15, 2010	Completed demolition Skirball Bridge 21.
October 15, 2010	Began driving piles at Santa Monica Bridge 4.
October 15, 2010	Installed Beams at Sunset Bridge 16, Bent #2.
October 15, 2010	Began driving piles on Santa Monica Bridge 4.
October 19, 2010	Completed demolition of Sunset Bridge 16, Abutment 4.
October 21, 2010	Installed beams at Sunset Bridge 15 On Ramp, Abutment 1.
October 22, 2010	Began Demolition of Sunset Bridge 16, Abutment 1.
October 22, 2010	Installed Piles at Wall 1720.
October 25, 2010	Began Excavation at Walls 1685/1691.
October 28, 2010	Began the relocation of overhead power lines at Ohio Ave Bridge 5.
October 28, 2010	Clear and grub area at Wall 1746.
November 12, 2010	Completed demolition of soundwall, barrier rail, and overhang at Bridge 13.
November 15, 2010	Completed installation of SOE at Abutment 1 NB at Bridge 4 Santa Monica.
November 15, 2010	Completed demolition of existing ExxonMobil 16" Oil Pipeline.
November 17, 2010	Completed excavation of CIP at Wall 1640.
November 18, 2010	Began excavation at Wall 1635.
November 29, 2010	Began Excavation at Bridge 13.
November 30, 2010	Began relocation of SCE underground vault.

## CHRONOLOGY OF EVENTS (Cont'd)

December 7, 2010	Began driving piles at Bridge 13 - Montana Avenue UC.
December 14, 2010	Completed Pile driving at Abutment 1 Bridge 16 Sunset OC.
December 15, 2010	Completed the installation of new power poles and raised the utility wires at Bridge 5 - Ohio Avenue.
December 16, 2010	Completed piles at abutments 1 and 2 for Bridge 13 Montana Ave UC.
December 17, 2010	Began installation of SOE beams at Bridge 15 Sunset on-ramp.
January 3, 2011	Began Construction of Piers and Columns at Bridge 16.
January 11, 2011	Began Construction Activities at Bridge 5.
January 13, 2011	Began Construction Activities at Bridge 12.
January 17, 2011	Began Installation of Footings and Pile Caps at Bridge 16.
February 1, 2011	Began Construction Activities at Bridge 21 – Skirball Center Drive.
February 14, 2011	Began Field Work relocating Storm Drain at Veterans Administration (VA).
February 21, 2011	Began Field Work relocating Chevron Oil Pipeline at Bridge 23 – Sepulveda UC.
February 23, 2011	Began Construction Activities at Bridge 15 – Sunset On-Ramp.
February 25, 2011	Completed Drilling and Placing Beams at NB Abutments 1 & 2 at Bridge 12 – Constitution UC.
February 28, 2011	Completed Pouring Columns at Bent 3, Bridge 16 – Sunset OC.
March 2, 2011	Began Field Work relocating LADWP 4" Waterline at Valley Vista.
March 2, 2011	Completed Driving 14" Square Piles at Bridge 3 Abutment 1.
March 15, 2011	Began Field Work relocating So Cal Gas Line at Wall 1746.

## CHRONOLOGY OF EVENTS (Cont'd)

March 18, 2011	Completed Setting Soldier Beams at Bridge 15 Bent 2 & 3 Mainline.
March 23, 2011	Began Field Work Encasing Sewer Lines 401-403 at Walls 1720, 1730 and 1746.
March 31, 2011	Completed Setting and Backfilling Wall Panels at Wall 1942B.
April 4, 2011	Began Installation of Bent 2 & Bent 3 Columns at Bridge 21 Skirball Center Drive OC.
April 5, 2011	Began Installation of Storm Drain at Walls 1720 and 1730.
April 10, 2011	Completed Installation of Girders at Bridge 13 Montana Ave UC.
April 22, 2011	Completed Bridge 9 Wilshire Blvd. UC demolition for widening.
April 25, 2011	Began Work Relocating Shell Oil Line at Bridge 23 Sepulveda UC.
May 2, 2011	Began Relocation of Area 2 Sewer Lines # 201-203.
May 6, 2011	Completed Setting Girders at Southside of Bridge 16 Sunset OC.
May 11, 2011	Began Construction Work on Bridge 3 Olympic Blvd.
May 25, 2011	Completed Tie Back Installation at Walls 1720 and 1730.
June 3, 2011	Completed Girder Installation on the North Side of Bridge 21 Skirball OC.
June 13, 2011	Began Installation of Precast Deck Panels on Bridge 16 Sunset OC.
June 24, 2011	Began Demolition of Existing Walls 1720 and 1730 along Sepulveda Blvd.
June 30, 2011	Completed Installation of Precast Deck Panels on Bridge 16 Sunset OC.

## CHRONOLOGY OF EVENTS (Cont'd)

July 6, 2011	Began Relocation of LADWP Overhead Power Lines at Mulholland Bridge.
July 13, 2011	Completed installation of Void Slab Deck at Bridge 12 Constitution UC.
July 14, 2011	Completed Pouring Diaphragms 1, 2, and 3 at Bridge 21 Skirball OC.
July 16, 2011	Began Demolition of South Side of Bridge 22 Mulholland OC.
July 17, 2011	Completed Demolition of South Side of Bridge 22 Mulholland OC.
July 20, 2011	Completed Installation of Pre-cast Girders at Bridge 4SB Santa Monica UC.
July 26, 2011	Began Driving Piling at Bridge 8 NB from EB Wilshire, Bent 8.
August 1, 2011	Began installation of forms and rebar for Top Deck at Bridge 21, Skirball Center Drive.
August 3, 2011	Began work on the Interchange Ramp from Westbound I-10 to Northbound I-405.
August 6, 2011	Began work installing Top Deck at Bridge 4 Santa Monica Blvd.
August 24, 2011	Completed pouring the Top Deck at Bridge 13, Montana Ave.
August 26, 2011	Completed installation of Footing & Pile Cap/Abutment-Wingwalls/Bridge Bearing Bridge 3 Olympic Blvd.
August 31, 2011	Completed pouring the Top Deck at South Side of Bridge 16, Sunset Blvd.
September 15, 2011	Completed installation of Top Deck and Diaphragm on Bridge 16, Sunset Blvd.
September 16, 2011	Completed pouring the Top Deck at Bridge 21, Skirball Center Drive.
September 23, 2011	Began construction of LADWP Power Utilities undergrounding ductbank between Stations 1740 and 1760.

## CHRONOLOGY OF EVENTS (Cont'd)

September 27, 2011	Completed pouring curb and gutter on west side of Bridge 16, Sunset Blvd.
September 29, 2011	Completed pouring Lateral Retaining Walls #6, #7, and #8 at Retaining Wall 1720.
October 14, 2011	Completed pouring footing for Bent 2 at Bridge 22, Mulholland Drive.
October 17, 2011	Began installation of Bent 2 Forms at Bridge 22, Mulholland Drive.
October 18, 2011	Began construction activities at Bridge 18, Bel Air Crest.
October 22, 2011	New Bridge 16, Sunset Blvd. South Side opened to vehicle traffic.
October 27, 2011	Completed pouring Abutment 1 at Bridge 22, Mulholland Drive.
November 1, 2011	Began demolition of Bridge 16 Sunset Blvd. north side.
November 7, 2011	Began installation of CIDH Piles for I-10 Connector.
November 9, 2011	Completed demolition of Bridge 16 Sunset Blvd. north side.
November 22, 2011	Received the VA License to Enter agreement.
November 22, 2011	Completed pouring Bridge 22 Mulholland OC Bent 2 Columns.
November 22, 2011	Completed pouring Bridge 5 Ohio NB Abutments 1 & 2.
December 1, 2011	MSE Wall 1897 along NB Sepulveda Blvd. south of Skirball Center Drive ruptures. Kiewit stops work on all MSE Walls throughout the project and begins investigation into MSE Wall deficiencies.
December 1, 2011	Began 2 <sup>nd</sup> pouring of Bridge 22 Mulholland Abutment 1.
December 8, 2011	Completed subgrade for NM Connector.
December 17, 2011	Began installation of Precast Girders at Bridge 5A Ohio Ave.
December 19, 2011	Began installation of falsework beams for Bridge 15 Sunset on-ramp.

## CHRONOLOGY OF EVENTS (Cont'd)

December 19, 2011	Began driving piles for Bridge 16 Sunset Blvd. Bent 3.
January 4, 2012	Began De-construction of MSE Wall 1738A.
January 9, 2012	Began De-construction of MSE Wall 1665.
January 16, 2012	Completed demolition of the I-405 median barrier at Mulholland Bridge and began erection of Falsework.
January 19, 2012	Began pouring footings for Soundwalls at Retaining Walls 1720 and 1730.
January 20, 2012	Completed pouring column # 1 @ Sunset Blvd. Bridge.
January 25, 2012	Began De-construction of MSE Wall 1634.
January 27, 2012	Kiewit stopped work on all Soil Nail Walls due to developing cracks, pending investigation.
January 31, 2012	Poured columns at Bel Air Crest Bridge.
February 13, 2012	Construction activities are started in Area 5 at Bridge 18 Getty Center UC and Bridge 19 Sepulveda UC.
February 15, 2012	De-construction of MSE Wall 1738A at Sunset NB Off-Ramp is completed.
February 18, 2012	Piers and Columns are poured for Bridge 16 Sunset Blvd.
February 18, 2012	LADWP completes installation of new underground cabling in ductbank along Sepulveda Blvd and Wilshire Ave. Final paving of Sepulveda trench is completed.
February 28, 2012	Kiewit submits notification to LACMTA that all remaining MSE Walls, with the exceptions of completed MSE Walls 1619 and 1942B will be de-constructed.
March 2, 2012	Full NB Freeway Closure at Mulholland Bridge to install Falsework Girders.
March 6, 2012	Caltrans identifies a potential Safety Concern during Mulholland Bridge Falsework Girder Installation on the SB Side and orders girders to be removed. Caltrans issues Stop Work Order pending review of Girder Installation Process.

## CHRONOLOGY OF EVENTS (Cont'd)

March 8, 2012	Caltrans completes review of Girder Installation Process and authorizes resumption of installation of Falsework Girders at Mulholland Bridge. SB Side Falsework Girders are installed.
March 22, 2012	Concrete Girders are installed at Bridge 5B Ohio UC SB side.
April 7, 2012	Kiewit completes installation of Mulholland Bridge (South Side) Sheet Decking and begins installation of structural rebar.
April 10, 2012	Kiewit resumes construction of MSE Walls. Construction of Wall 1672 new leveling pad is started.
April 14, 2012	Kiewit begins installation of top deck and diaphragm structural rebar at Bridge 4Santa Monica UC.
April 20, 2012	Kiewit pours concrete top deck, curb, and gutter at Bridge 9 Wilshire UC.
May 1, 2012	Begin installation of Concrete girders at Bridge 16 Sunset OC North Side.
May 4, 2012	Kiewit resumes construction of MSE Walls using an approved new Wall Panel Vendor and Construction Plan. Construction begins at MSE Wall 1672 along Sepulveda Blvd. north of Wilshire Blvd.
May 4, 2012	Completion of installation of Concrete Girders at Bridge 16 Sunset OC North Side.
May 18, 2012	Construction of MSE Wall 1808 along Sepulveda Blvd. north of Getty Center Drive is started using new Wall Panels and Construction Plan.
May 24, 2012	Structural construction is started within the GSA Property. Construction of Bridge 7 Bent 3 is started.
May 31, 2012	Construction of MSE Wall 1686 along Sepulveda Blvd. north of Constitution Drive is started using new Wall Panels and Construction Plan.

## CONSTRUCTION PHOTOGRAPHS



Progress Photos May 2012 - Bridge 20, Bel Air Girders

## CONSTRUCTION PHOTOGRAPHS



## CONSTRUCTION PHOTOGRAPHS



## CONSTRUCTION PHOTOGRAPHS



Progress Photos May 2012 - Wall 1672



Progress Photos May 2012 - Prepping to set Water and strut beams at Manhole #11799

## CONSTRUCTION PHOTOGRAPHS

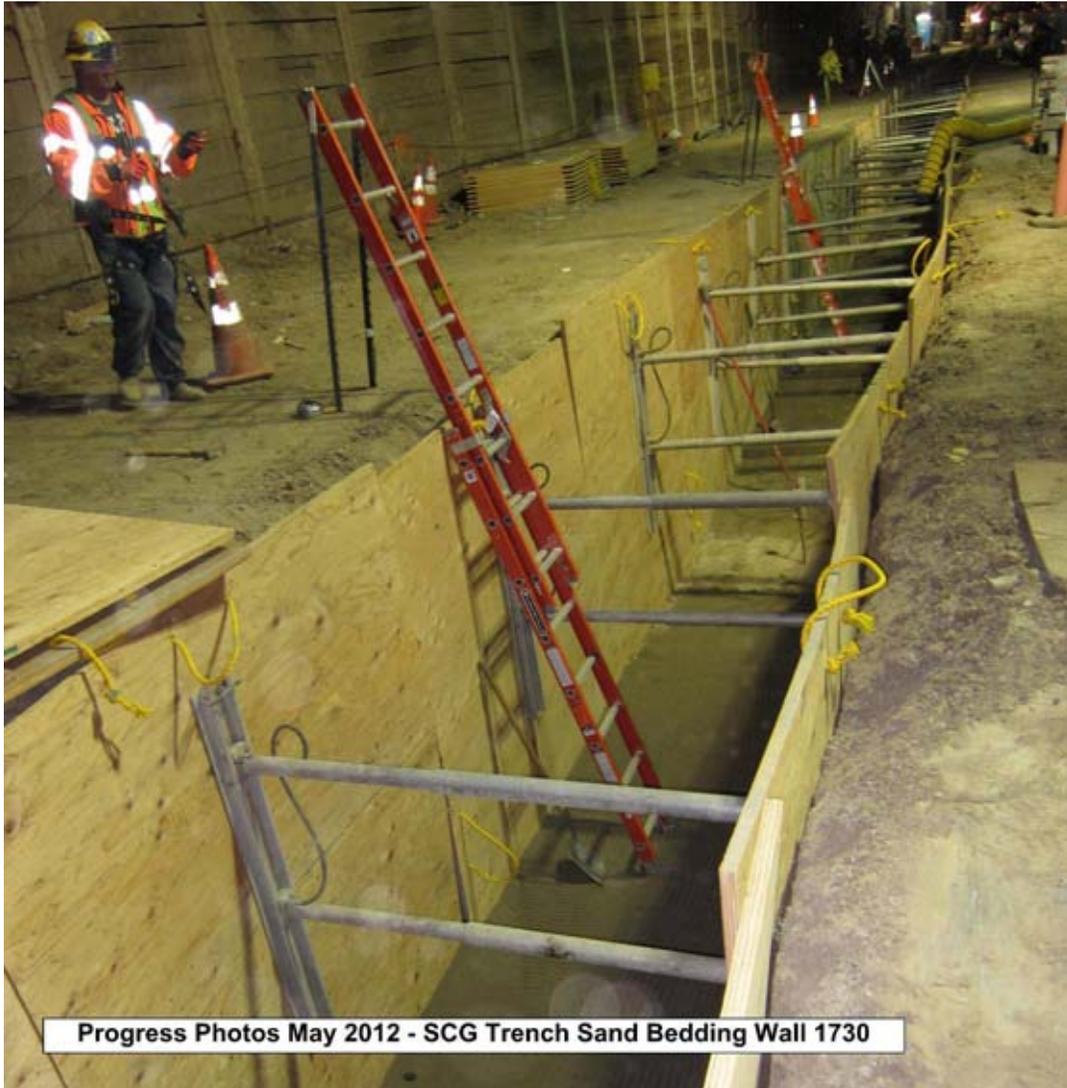


Progress Photos May 2012 - Area 4 Verizon/AT&T Relocations Northwest Excavating Slurry Backfilling Verizon Conduit

## CONSTRUCTION PHOTOGRAPHS



## CONSTRUCTION PHOTOGRAPHS



## CONSTRUCTION PHOTOGRAPHS



## APPENDICES

### COST AND BUDGET TERMINOLOGY

**APPROVED BUDGET:** The Approved Project Budget as established by Metro Board of Directors at the time it authorizes Construction Project Management Division to commence full design and construction of the project (Project Adoption).

**CURRENT BUDGET:** The Original Budget plus all budget amendments approved by formal Metro action. Also referred to as Approved Budget.

**CURRENT FORECAST:** Evaluation of costs to go combined with actual expenditures.

**COMMITMENTS:** The total of actual contract awards, executed change orders or amendments, approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time.

**EXPENDITURES:** The total dollar amount of funds expended by Metro for contractor or consultant invoices, third party invoices, staff salaries, real estate and other expenses that is reported in Metro's Financial Information System (FIS).

**PROJECT APPROVAL & ENVIRONMENTAL DOCUMENTS:** Costs for agency staff and consulting contracts leading to project approval and environmental clearances.

**PLANS, SPECS. & ENGINEERING:** Agency staff and consulting contract costs between the initial project approval and environmental clearances but prior to start of construction.

**RIGHT-OF-WAY SUPPORT:** Costs for agency staff involved in real estate appraisal and parcel purchase activities and agency staff costs involved in utility relocations and third party agreements. Includes real estate appraisal costs.

**CONSTRUCTION SUPPORT:** Agency staff and consulting contract costs occurring during the construction phase of the project.

**CONSTRUCTION:** Costs for highway construction, bridge and on/off ramp construction and modifications, retaining wall and sound wall construction. Includes final design costs by Design/Build Contractor.

**RIGHT-OF-WAY CAPITAL:** Costs for real estate parcel purchases and utility relocations costs after approval of utility company agreements. Includes costs for Master Cooperative Agreements after approval by agencies.

## APPENDIX LIST OF ACRONYMS

ARRA	American Recovery & Reinvestment Act
AWIS	Automated Work Zone Information Systems
CADD	Computer Aided Drafting and Design
CALTRANS	California Department of Transportation
CCTV	Closed Circuit Television
CD	Calendar Day
CDFG	California Department of Fish and Game
CEQA	California Environmental Quality Act
CM	Construction Manager
CMAC	Congestion Mitigation Air Quality
CMIA	Cash Management Improvement Act
CMS	Changeable Message Signs
CN	Change Notice
CO	Change Order
COE	Corps of Engineers
COLA	City Of Los Angeles
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CTC	California Transportation Commission
D-B	Design-Build
D-B-B	Design-Bid-Build
DD	Design Development
DEIR	Draft Environmental Impact Report
DR	Deficiency Report
DWP	Department of Water and Power
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
FD	Final Design
FEIR	Final Environmental Impact Report
FHWA	Federal Highway Administration
FIS	Financial Information System
FOCT	Fiber Optics Cable Transmission System
FTE	Full Time Equivalent
GDSR	Geotechnical Design Summary Report
GSA	General Services Administration
GSRD	Gross Solids Removal Devices
HAR	Highway Advisory Radio
HOV	High Occupancy Vehicle
IFB	Invitation for Bid
IPO	Integrated Project Office
ITS	Intelligent Transportation Systems

**APPENDIX**  
**LIST OF ACRONYMS (Continued)**

LA	Los Angeles
LABOE	Los Angeles Bureau of Engineering
LACFCD	Los Angeles County Flood Control District
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LARTMC	Los Angeles Regional Transportation Management Center
LFAT	Local Field Acceptance Test
LNTP	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LOP	Life of Project
MCA	Master Cooperative Agreement
METRO	Los Angeles County Metropolitan Transportation Authority
MIS	Major Investment Study
MOT	Maintenance of Traffic
MPSR	Monthly Project Status Report
MSE	Mechanically Stabilized Earth
MVDS	Microwave Vehicle Detection System
MVP	Maintenance Vehicle Pullouts
MWD	Metropolitan Water District
N/A	Not Applicable
NCR	Non-Conformance Report
NEPA	National Environmental Quality Act
NHS	National Highway System
NOA	Notice of Award
NTE	Not to Exceed
NTP	Notice To Proceed
NTSC	National Television System Committee
P6	Primavera Project Planner® (scheduling software)
PC	Project Control
PE	Preliminary Engineering
PIP	Project Implementation Plan
PM	Project Manager
PMA	Project Management Assistance
PMP	Project Management Plan
P&P	Policies & Procedures
PR	Project Report
PS&E	Plans, Specs & Engineering
PSR	Project Study Report
QA	Quality Assurance
QAR	Quality Assurance Report

## APPENDIX

### LIST OF ACRONYMS (Continued)

QC	Quality Control
QPSR	Quarterly Project Status Report
RFC	Request For Change or Released for Construction (based on context)
RFP	Request For Proposal
RMS	Ramp Metering Systems
ROM	Rough Order of Magnitude
ROW	Right-Of-Way
SIT	System Integration Testing
RSTP	Regional Surface Transportation Program
RWQCB	Regional Water Quality Control Board
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SCE	Southern California Edison
SONET	Synchronous Optical Network
SOV	Schedule Of Value
SOW	Statement Of Work
SP	Special Provision
TBD	To Be Determined
TCRP	Traffic Congestion Relief Program
TMS/CS	Traffic Monitoring Stations/Count Stations
TPM	Transportation Management Plan
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package