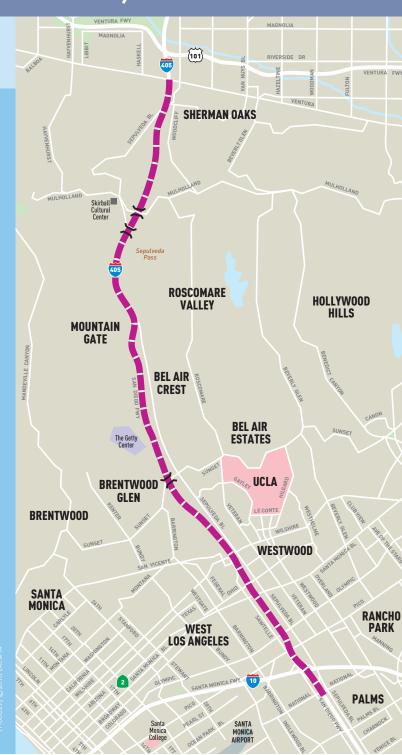


I-405 Sepulveda Pass Improvements Project

MONTHLY PROJECT STATUS REPORT







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 (ARRA) AND FUNDS FROM THE STATE OF CALIFORNIA.

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PROJECT SUMMARY

| | ss Improveme | nts Project | | CONSTRUCTION MANAGEMENT CONSULTANT: Stantec | | | | | |
|--|------------------|--------------------|---------------------|---|------------------|------------------|---------------|--|--|
| DESIGN/CONSULTANT: Kiewit | (D/B) | | | CONTRACTOR: Kiewit (D/B) | | | | | |
| PROJECT PHOTO | | | | WORK COMPLETED PAST MONTH | | | | | |
| Slope Behind RW 2011 - Valley | Vista SB I-405 | On-ramp | | | | | | | |
| | | | | - SB I-405 final lane configuration completion - Irrigation and Landscaping installation continues - Traffic Signals and Permanent Lighting installation continues - GSA Parking Lot Restoration Continues - Getty Center North Canyon Area work continues - Project Wide Curb and Gutter installation continues - Sepulveda Blvd. in Areas 4 and 5, street cap paving begins - GSA Anti-climb Fence fabrication continues - Bridge 21 Skirball Center Dr. Bridge Work Complete | | | | | |
| EXPENDITURE STATUS | | | | SCHEDULE ASSESSMENT | | | | | |
| (\$ In Millions) | IOUDDENIT | EVENDED | DED OF VIT | | I | | | | |
| ACTIVITIES | CURRENT | EXPENDED AMOUNT | PERCENT EXPENDED | MAJOR SCHEDULE | PRIOR | | VARIANCE | | |
| ACTIVITIES | BODGET | AWOUNT | LXI LINDLD | ACTIVITIES | PLAN | PLAN | WEEKS | | |
| DESIGN (Preliminary) | \$47.0 | \$47.0 | 100.0% | Environmental End Environmental Phase (PA&ED) | Mar-08 | Mar-08 | Complete | | |
| (PA&ED/PS&E) | Ψ47.0 | Ψ-1.0 | 100.070 | End Environmental Friase (FA&ED) | iviai-06 | iviai-06 | Complete | | |
| RIGHT-OF-WAY | \$108.7 | \$63.5 | 58.4% | | | | | | |
| (Capital/Support/3rd Party) | | | | | | | | | |
| CONSTRUCTION | \$983.1 | \$939.6 | 95.6% | Design | | | | | |
| (Construction Support/Construction) | | 0.4 = | 57.7% | End Design Support Phase (D/B) | Dec-13 | Sep-14 | 39 | | |
| Reversible Lane | \$2.6 | \$1.5 | 37.770 | | | | | | |
| TOTAL | \$1,141.4 | \$1,051.6 | 92.1% | † | | | | | |
| | <u> </u> | | | Right-of-Way | | | | | |
| | | | | ROW Certification | Dec-13 | Sep-14 | 39 | | |
| | | | | | | | | | |
| AREAS OF CONCERN | | | | | | | | | |
| Bridge 21 Chirhell Center Drive 1 | ND Foot Flhour | | | Construction Opening of SB I-405 Realignment | May 14 | Mov 14 | Complete | | |
| Bridge 21 Skirball Center Drive - N Fact Sheet Approval by Caltrans | ND East EIDOM | | | Substantial Completion | May-14 Aug-14 | May-14 Oct-14 | Complete 7 | | |
| Getty Center North Canyon Parkir | ng Lot | | | Substantial Completion | Aug 14 | 00114 | ' | | |
| | | | | | | | | | |
| ROW ACQUISITION (Caltrans) | | | | CRITICAL ACTIVITIES / 3 MONTH L | OOK AHEAD | | | | |
| PARCELS AQUIRED | | | 66 | Project Wide Sepulveda Blvd Paving | Complete - Au | gust 2014 | | | |
| PARCELS NOT AQUIRED (Salva | ition Army-Litig | ation Pending) | | Project Wide Signal and Lighting Installation Complete - September 2014 | | | | | |
| DECERTIFIED PARCELS | | | 12 | Project Wide Substantial Completion - October 2014 | | | | | |
| PAST DUE WITH NO APPARENT | T SCHEDULE | MPACT | 0 | Project Wide Substantial Completion - October 2014 Project Wide Punchlist Work Begins - November 2014 | | | | | |
| | | | 0 | | . 1010111001 20 | | | | |
| ADDITIONAL IMPACTS REQUIR | | | | | | | | | |

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 soundwalls 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 soundwalls

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 issued on June 2, 2009 with a Substantial Completion Deadline of May 31, 2013. Currently, the substantial completion is expected to occur in October 2014.

Completion of Getty's North Canyon Work

Metro has been trying to complete the North Canyon work for two years, facing numerous issues involving Kiewit and Getty. The latest issue was mitigation of road blocks in completing the work. Metro coordinated and worked with Kiewit outreach which ended up with one (1) actual bid, out of six (6) potential bidders, which was 3 times more than Metro's estimate. Metro authorized the work as Time and Material (T&M) just to avoid more delays and to reduce any risk to Kiewit, but Kiewit asked for indemnification for anything that could possibly arise from this work. This has caused delays in just getting the indemnification language agreed to between Metro Legal and Kiewit. At this point, this work is going to cause delays in finalizing Getty work. Although this work is not on the critical path, but Getty's operation to complete the work around Getty's entrance may be impacted. Metro is meeting internally to determine path forward; Continue on current path with Kiewit, use Caltrans to complete, or issue another contract- This will need direction in August if our current approach changes.

SB HOV

SB freeway improvements including restriping and final lane configurations were completed on July 3, 2014, on schedule.

Claims

In regards to Kiewit's Claim 86, Metro has informed the DRB that Metro does not believe this claim is proper for hearing by the DRB for the basic reason that the claim is not allowed by

PROJECT OVERVIEW & STATUS (Cont'd)

the contract as it is not a discrete event or impact with supporting documentation to understand the nature of the impact, whether for quantum or impact to schedule.

Metro will continue to resolve claims with Kiewit through several methods; (1) We will determine merit and negotiate without utilizing the DRB process; (2) DRB process as requested by Kiewit other than claim 86; 3) Any other process the contract allows, including referring to court.

Documentation of Kiewit claims or payment issues have been difficult at best using Kiewit's reports which has been discussed in previous monthly reports. Recently, Metro came to the conclusion that the only way to track this properly was to update the comments and track this effort ourselves. This effort was started in June 2014, after presenting this information at Executive Partnering in June. The information Metro presented reflected that at least ½ of Kiewit's complaints were actually in their court and the remaining were rejected by Metro or were recently given to Metro for review and approval. Metro acknowledges that there were issues Metro was slow in resolving, but small in comparison to Kiewit's issues and what they have claimed about Metro. At this time, Metro is in the process of recreating Kiewit claims data and developing our own cost report using Kiewit data. We will continue on this course and track it with the expectation to determine how long this effort will take based on existing resources. Metro has committed to enhancing our small claims resolution by adding two complete teams which is in the process. Metro had to request the CM Consultant to provide these additional resources which will increase staff costs in the short term but may end this entire claim process sooner.

DRB Claims Schedule

Two claims were heard by DRB in May 2014:

- 1) Mulholland acceleration Quantum \$4.2M; DRB ruled that Kiewit was owed \$2.7M. Metro rejected the DRB ruling but has offered Kiewit opportunity to sit down and resolve quantum.
- 2) Dissipater Merit; DRB ruled that Kiewit had merit, the amount to be determined between Metro and Kiewit. Metro has rejected the DRB ruling.

Two claims were heard in June 2014:

- 1) Traffic Signalization Merit; DRB ruled in favor of Kiewit. Metro has rejected this hearing result but will sit down with Kiewit to resolve Quantum.
- 2) Battery Backup Systems Merit; DRB ruled in favor of Kiewit. Metro has not accepted this hearing result but will negotiate quantum as required by contract.
- 3) Walls 1720/1730/1746 Quantum \$9M; Delayed due to Kiewit changing argument. New date to be determined. This has been difficult to set date because of the numerous changes by Kiewit to their claim and supporting documents.

Six Claims which were scheduled to be presented to the DRB in July 2014 have been resolved and the July 2014 DRB hearing has been canceled. Claims resolved 90, 91, 93, 96,

PROJECT OVERVIEW & STATUS (Cont'd)

98, and 104 (note: these claims have small dollar values).

Out of the remaining claims which include numerous small ones, two (2) more (88 and 95) were resolved during the month. As stated above in claims we are expanding our effort to resolve these at a quicker pace.

Cost Forecasting

Project recognizes three (3) key areas of cost increase:

- 1) Labor from Caltrans, Metro, Consultant, and City This is being caused by the schedule delay and keeping staff onboard longer than anticipated. In addition, Caltrans has been charging significant amount of hours for some time which has little to do with delay but their interpretation of what is needed to perform Independent Quality Assurance.
- 2) Claims The Contractor has always had Potential Impact letters and has reserved its right to claim areas of the work. But to this point, they have not given us an idea of what they would do with some of these claims. For example, the Signalization claim noted above was rejected 3.5 years ago with no action by Kiewit until 6 months ago. Therefore, Metro adjusted our recent forecast cost-to-complete based on Kiewit's latest indication that they would like to hear almost all claims at the DRB.
- 3) ROW capital billings by Caltrans are reported to Metro after the fact. This was initially reported going over budget according to Caltrans billing documentation. Metro has reconciled these cost issues and it appears there was double counting of these costs.

Forecasting costs for labor is real and we expect the cost of the project to increase with little control over these costs as they are associated with an impact. ROW is being verified by Metro and the control of this is in Caltrans authority to administer, where Metro can only verify that these costs are appropriate. The costs of Claims are dependent on Kiewit requesting a hearing and the outcome of those hearings. The swing on these issues is significant (\$46.4M) and we expect over the next two months a significant dollar amount of claims to be resolved.

Cost Recovery

I-405 Team is putting together a list of issues that are considered improvements, excessive mitigations, or just requests from Caltrans, City, and County Agencies that contributed to the LOP Budget increase. Some of these are well documented, some are not. Examples include the Getty work and ramp improvements (Caltrans), widening of Sepulveda and slide repairs at Sepulveda and Homedale (City), and turn pocket SB Sepulveda at Wilshire (County).

MANAGEMENT ISSUES

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

Status/Action Mitigation of North Canyon road is in process. Bids were received from only one (1) bidder out of six (6) potential bidders with a value about \$7M higher than Metro's estimate. Something appears to be out of sorts – only one bidder with a very high value. Metro has met with Caltrans ROW/Legal and Metro Legal to determine another approach to completing this work, and several plans have been discussed; Pay Getty to self-perform or have Caltrans issue a contract to complete these activities. Additionally, Metro is meeting with Kiewit to try to come to a resolution. As of this report, Getty has stated that they will not selfperform the work, and Caltrans has indicated that they will not remove a large stockpile of material that they claim does not belong to Caltrans. Metro is running out of viable options dealing with these issues and the five groups that have many complaints about each other. Metro sent both Caltrans and Getty a letter asking them to remove the stockpile by March 15, 2014 which did not happen. Metro will remove the material and bill both Getty and Caltrans half the expenses each. In regards to the remaining work in North Canyon area, a meeting was held with Kiewit on March 26, 2014 to discuss the scope of work. The Project provided Kiewit with verbal direction that the work would be done on a Time and Material (T&M) basis with change orders forthcoming.

After all the back and forth to get this work started over the last year with Metro authorizing time and material (T&M) to reduce risk to Kiewit, Kiewit is now asking for indemnification for design and construction which for the design they may have a point but the construction does not. Metro, as stated earlier in this report, believes that Kiewit will never accomplish this work, therefore we will work with Getty and Caltrans to resolve these issues by requesting Getty to complete.

Concern No. 2: Provisional Sums

Status/Action There is a significant cost increase in Provisional Sums caused by unknown utility conflicts at bid time. Currently, Project is reviewing Utility scopes to verify their accuracy and identify other issues, such as future changes, that could impact the project later. In addition, the Project is actively pushing Kiewit to forward-price all relocations and stop Time and Material (T&M), except in emergency type situations. Kiewit has exceeded original estimates by double in some cases which has made resolution difficult, but Project is working the issue with Kiewit. Kiewit brings up unsubstantiated Provisional Sum costs at Executive Partnering sessions. Exceeding T&M estimates and lack of timely requests for reimbursement are areas that impact Kiewit and Metro. Without details, Project is left with few options, but to wait on information and keep working with Kiewit to resolve the issues.

MANAGEMENT ISSUES (Cont'd)

Concern No. 3: Project Cost and Schedule Reassessment

Status/Action The current Life-of-Project (LOP) budget stands at \$1,141.4million. As stated earlier in this report, Claim 86 is outside this discussion, and currently, Project has no way of knowing if any of Claim 86 has merit. Additionally, as noted earlier, Kiewit has been referring to other claims which Project is not aware of, has no idea if they are related to the already denied for merit, or if they are legitimate and could have impact on LOP budget. Recent cost analysis has shown upward pressure on the budget in a number of areas. Project has initiated weekly meetings to establish resolution for this issue.

Areas of potential concern:

- Labor costs for Caltrans, City, and Metro
- Caltrans ROW costs
- Provisional Sums- reconciling T&M work, additional payment requests from Kiewit
- Additional Claims from Kiewit

Concern No. 4: Landscaping

<u>Status/Action</u> The Project and other Agencies are resolving the tree planting issue for the Project. City and Caltrans have agreed to landscaping, but the mitigation of trees is not resolved. County/City/Caltrans/Metro are working on this issue to determine an understanding on the number of trees to mitigate, but this will also involve Elected Officials and Metro's Management before being finalized.

Concern No. 5: Commercial Issues

<u>Status/Action</u> Kiewit and Metro have many complaints on commercial issues. Currently, the Project is working on addressing final lists of issues to avoid unnecessary complaints and focus on list of unresolved issues. Metro has regenerated Kiewit's lists of commercial issues with Metro Comments incorporated in document, which reflect that Kiewit has work to do to resolve these issues. In the past, Kiewit has been generous with criticism of Metro, and Metro has consistently pushed back that Kiewit is not accurate. Now that we are tracking Kiewit commercial issues, Kiewit has relented somewhat but we still have ways to go and we are staffing up to resolve these final commercial issues.

Concern No. 6: Caltrans Staff and Real Estate Cost

<u>Status/Action</u> Recent cost analysis has shown a cost overrun for Caltrans staff budget cost and a potential overrun of ROW cost. Caltrans staff costs have been brought up to Caltrans Executive Management in the past and Caltrans has informed Metro on every occasion that staff charges are appropriate. These overruns are ongoing issues and Project is looking for

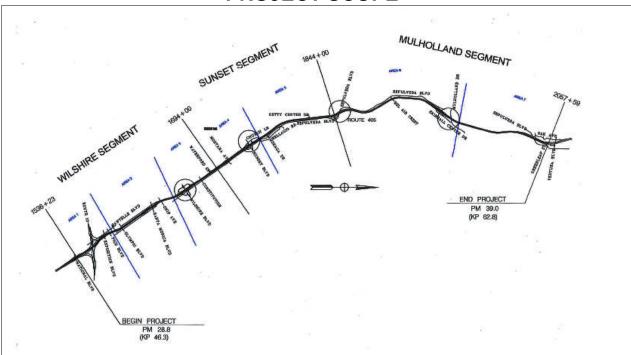
MANAGEMENT ISSUES (Cont'd)

viable solutions to resolve these issues. Project is also re-assessing related potential cost increases.

Concern No. 7: Potential Increases to Staffing Costs

Status/Action Delays to the project schedule are potentially expected to increase staffing costs. Studies are underway to forecast the remaining staffing costs based on revised staff demobilization plan.

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 (six 12-foot mixed-flow lanes between Mulholland Bridge and Valley Vista), 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 dual-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. This entails NB and SB lanes and shoulder standardization.

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 Skirball Off-Ramp and Skirball Center Drive.
- The southbound Valley Vista On and Off Ramps are realigned due to freeway
 widening and freeway mainline realignment between SB Valley Vista On/Off
 Ramps. The realignment will improve the stopping sight distance for the SB Valley
 Vista Off-Ramp. A third lane will be added to the SB Valley Vista On-Ramp to
 increase the ramp capacity.
- A second NB lane will be added on Skirball Center Drive between the Skirball Bridge and NB Skirball ramps.
- A NB auxiliary lane and bike lanes will be added on Sepulveda Blvd. on each direction, between the new SB Skirball ramps and Skirball Bridge.

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.

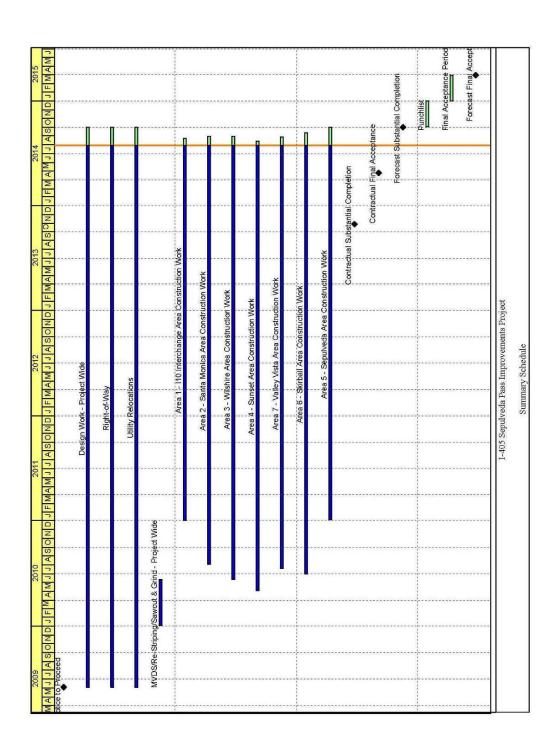
KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

| | Milestone Date | Jul-14 | Aug-14 | Sep-14 | Oct-14 | Nov-14 | Dec-14 |
|---|-------------------|---------------|--------|------------------------------|--------------|--------|--------|
| Wall 1746 Slope Paving Completed | 7/10/14A | 0 | | | | | |
| Walls 1720 & 1730 Slope Paving Stain Completed | 7/11/14A | 0 | | | | | |
| Textured Paving At Wall 1766 and Bridge 17 Completed | 7/14/14A | 0 | | | | | |
| Area 2 Final Inspection of LABSL Lighting Completed | 7/16/14A | 0 | | | | | |
| Bridge 13 Montana and Bridge 14 Sunset NB Off- ramp Soffit Lighting Installation Completed | 7/25/14A | 0 | | | | | |
| Area 4 Sunset - Substantial Completion | 8/13/14 | | 0 | | | | |
| Area 4 Sunset - Punchlist Work Begins | 8/14/14 | | 0 | | | | |
| Area 7 Valley Vista - Substantial Completion | 8/28/14 | | 0 | | | | |
| Area 7 Valley Vista - Punchlist Work Begins | 8/29/14 | | 0 | | | | |
| Area 6 Skirball - Substantial Completion | 9/12/14 | | | 0 | | | |
| Area 6 Skirball - Punchlist Work Begins | 9/13/14 | | | 0 | | | |
| Area 5 Sepulveda - Substantial Completion | 10/1/14 | | | | 0 | | |
| Project Wide Substantial Completion - Open to Traffic | 10/1/14 | | | | 0 | | |
| Area 5 Sepulveda - Punchlist Work Begins | 10/2/14 | | | | 0 | | |
| Area 2 Santa Monica - Punchlist Work Complete | 10/14/14 | | | | 0 | | |
| Area 3 Wilshire - Punchlist Work Complete | 10/15/14 | | | | 0 | | |
| Area 1 I-10 Interchange - Punchlist Work Complete | 10/20/14 | | | | 0 | | |
| Area 4 Sunset - Punchlist Work Complete | 11/11/14 | | | | | 0 | |
| Area 7 Valley Vista - Punchlist Work Complete | 11/26/14 | | | | | 0 | |
| Metro Metro Milestone — Design/E CT Caltrans Milestone * New Date | | ← FHWA | | es Approval leral Highw a | y Administra | ation | |

KEY MILESTONE SCHEDULE SIX-MONTH LOOKAHEAD

| | | | | Milestone Date | Jul-14 | 8/1/201 | Sep-14 | Oct-14 | Nov-14 | Dec-14 |
|--|--------------------------|----------|----------|-------------------|-------------|----------------------|---------------|--------------|--------|--------|
| Area 6 Skirt | oall - Punchlist Work Co | omplete | | 12/11/14 | | | | | | 0 |
| Area 5 Sepulveda - Punchlist Work Complete | | 12/30/14 | | | | | | 0 | | |
| 30000 | | | | | | | | | | |
| Metro | Metro Milestone | 0 | Design/B | Build | \triangle | Third Partie | es Approval | | | |
| СТ | Caltrans Milestone | * | New Dat | е | FHWA | FHWA Fed Approval | leral Highw a | y Administra | ation | |
| | | | | | | | | | | |
| | | | | | | | | | | |

PROJECT SUMMARY SCHEDULE



I-405 Sepulveda Pass Improvements Project Monthly Project Status Report

July 2014

CRITICAL PATH NARRATIVE

Based on the current project update, the primary critical path runs through Permanent Traffic Signals at Getty Center including Procurement, Conduit, Equipment, Wire, Boxes, Testing, and Inspection. The path ends with Area 5 Substantial Completion.

PROJECT COST STATUS

METRO CONSTRUCTION MANAGEMENT DIVISION / CALTRANS

COMBINED COST REPORT BY PHASE

PERIOD ENDING: JULY 2014 DOLLARS IN THOUSANDS

| PHASE | PHASE | DESCRIPTION | ORIGINAL | CURRENT | BUDGET | СОММІТ | TMENTS | EXPEND | ITURES | CURRENT | FORECAST | BUDGET / FORECAST |
|-------|-------|--|-----------|---------|-----------|--------|-----------|--------|-----------|---------|-----------|----------------------|
| # | CODE | DESCRIPTION | BUDGET | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | VARIANCE |
| 0 | PA&ED | PROJECT APPROVAL & ENVIRO DOCS | 22,000 | 1 | 21,457 | | 21,078 | - | 21,078 | • | 21,457 | - |
| 1 | PSE | PLANS, SPECS, & ENGINEERING | 63,100 | 1 | 25,560 | | 26,040 | - | 26,012 | - | 25,632 | 72 |
| 2 | RS | RIGHT-OF-WAY SUPPORT | 14,000 | 1 | 9,543 | 156 | 8,485 | 156 | 8,485 | - | 8,076 | (1,467) |
| 3 | cs | CONSTRUCTION SUPPORT | 28,000 | - | 67,813 | 1,542 | 107,358 | 3,521 | 99,897 | - | 85,387 | 17,574 |
| 4 | С | CONSTRUCTION | 823,900 | 1 | 915,241 | 3,612 | 909,881 | 58,063 | 839,622 | - | 937,456 | 22,215 |
| 9 | RC | RIGHT-OF-WAY CAPITAL | 83,000 | 1 | 99,186 | 26 | 62,889 | 56 | 54,996 | - | 60,792 | (38,394) |
| | | SUBTOTAL PROJECT | 1,034,000 | - | 1,138,800 | 5,336 | 1,135,731 | 61,796 | 1,050,090 | - | 1,138,800 | - |
| 4 | С | CONSTRUCTION OF CITY OF L.A.'S REVERSIBLE LANES PROJECT | - | - | 2,600 | | 1,466 | - | 1,466 | - | 2,600 | - |
| 4 | С | CONSTRUCTION OF CALTRANS DRAINAGE SYSTEM REPAIRS | - | - | - | - | - | - | - | - | - | - |
| | | TOTAL PROJECT | 1,034,000 | ٠ | 1,141,400 | 5,336 | 1,137,197 | 61,796 | 1,051,556 | • | 1,141,400 | - |

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH JUNE 30, 2014. KIEWIT EXPENDITURES ARE ONLY THROUGH APRIL 30, 2014 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 million. An additional \$6.0 million was approved by the Metro Board in February 2011 to add the City of LA's Reversible Lanes Project Scope funded by the City of Los Angeles, along with \$8.0 million approved by the Metro Board to add Caltrans drainage system repairs to be funded by Caltrans. The Metro Board approved a decrease in the amount of \$3.4 M for the Reversible Lanes and an increase of \$26.1M for betterments. This brings the total Current Budget to \$1,070.7 million. In June and July 2013, the Metro Board approved increases of \$70.7 million which brings the Current Budget to \$1,141.4 million. The Project Cost Report has been updated to reflect this increase.

Current Budget and Current Forecast

The Current Budget is \$1,141.4 million. Trends 1 through 280 have been approved and are included in the Current Forecast of \$1,141.4 million. Trends are being prepared for all Professional Services (including Metro, Caltrans and Stantec staff) and will be included in next month's report. Project Budget Change Requests (PBCR) 1 through 9 have been issued and included in the Current Budget.

Commitments

The Commitments increased by \$5.3 million this period primarily for P.O's for Kiewit contract mods, Professional Services and Metro/Caltrans staff charges. Total Commitments are \$1,137.2 million.

PROJECT COST ANALYSIS (Contd)

Expenditures

Expenditures are cumulative through June 2014. The expenditures increased by a total of \$61.8 million this period. Expenditures 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 3rd 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 Caltrans Real Estate acquisitions. \$41.3M in Kiewit invoices were processed by Metro Accounting this period. These were for the month of February combined with March 2014 in the total amount of \$25.0M and for April 2014 in the amount of \$16.3M. Accruals of \$15.1M were posted by accounting this period for estimated Kiewit invoices for May and June 2014. The \$1,051.6 million in Project Expenditures to date represents 92.1% of the Current Budget.

FINANCIAL/GRANT STATUS - ORIGINAL SCOPE ACTIVITIES

| JULY 2014 | | STATU | IS OF FUNDS I | BY SOURCE | | | | | |
|-------------------------------|---------------------------|--------------------------------------|------------------------------------|----------------------|---------------------|---------------------|-----------------------|----------------------------------|------|
| SOURCE | (A) APPROVED BUDGET | (B) TOTAL FUNDS ANTICIPATED | (C) TOTAL FUNDS AVAILABLE | (D) COMMITI \$ | (D/B) MENTS % | (E) EXPEND \$ | (E/B) DITURES % | (F) BILLED TO SOURCI \$ | |
| FEDERAL SAFETEA-LU | \$117.000 | \$117.000 | \$117.000 | \$117.000 | 100% | \$117.000 | 100% | \$69.591 | 59% |
| FEDERAL ARRA | \$189.900 | \$189.900 | \$189.900 | \$189.900 | 100% | \$189.900 | 100% | \$189.900 | 100% |
| STATE CMIA | \$640.100 | \$640.100 | \$640.100 | \$640.100 | 100% | \$640.100 | 100% | \$560.375 | 88% |
| STATE TCRP | \$90.000 | \$90.000 | \$90.000 | \$90.000 | 100% | \$90.000 | 100% | \$43.845 | 49% |
| STATE RSTP | \$10.100 | \$10.100 | \$10.100 | \$10.100 | 100% | \$10.100 | 100% | \$7.447 | 74% |
| PROPOSITION C 25% | \$13.000 | \$88.000 | \$13.000 | \$88.000 | 100% | \$4.456 | 5% | \$2.125 | 2% |
| FURTHER COST/REVENUE RECOVERY | \$0.000 | \$3.700 | \$0.000 | \$2.097 | 57% | \$0.000 | 0% | \$0.000 | 0% |
| SUB TOTAL FUNDS | \$1,060.100 | \$1,138.800 | \$1,060.100 | \$1,137.197 | 100% | \$1,051.556 | 92% | \$873.283 | 77% |
| CITY OF LA ** | \$2.600 | \$2.600 | \$0.000 | \$0.000 | | \$0.000 | | \$0.000 | |
| TOTAL FUNDS | \$1,062.700 | \$1,141.400 | \$1,060.100 | \$1,137.197 | | \$1,051.556 | | \$873.283 | |

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH JUNE 2014
TOTAL FUNDS ANTICIPATED BASED ON JUNE 2013 PROJECT COST AND FUNDING PLAN AND JULY 2013 BOARD REPORT.
*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. The remaining balance of \$359.3M has been allocated and are available for drawdown. In December 2012, the California Transportation Commission and Metro Board approved the reprogramming of \$26.1M in CMIA funding to the I-405 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. The remaining balance of \$48M has been made available by the CTC and is available for drawdown.

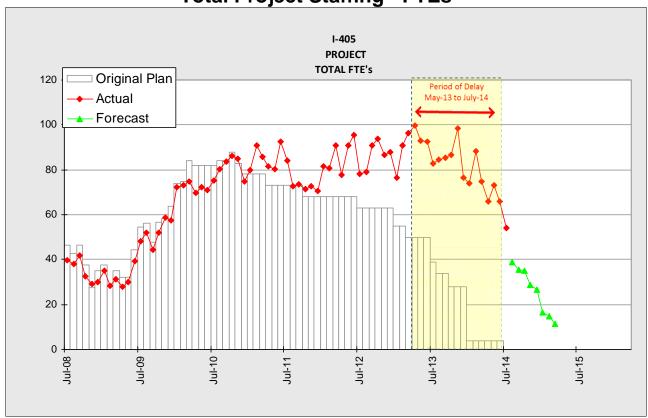
STATE RSTP: \$10.1M is available for drawdown for specific phases of the Project as agreed upon in the Cooperative Agreement between Caltrans and Metro.

PROPOSITION C 25%: The Metro Board initially approved the allocation of \$13M to the Project. In June 2013, the Metro Board approved an additional allocation of \$75M.

CALTRANS: Metro Board authorized staff in July 2012 to execute a Memorandum of Understanding between Caltrans Maintenance and Metro for a total amount of \$8M for the cleaning and the reconstruction of Caltrans drainage. In March 2013, Caltrans informed Metro that the work and funding have been cancelled.

STAFFING STATUS

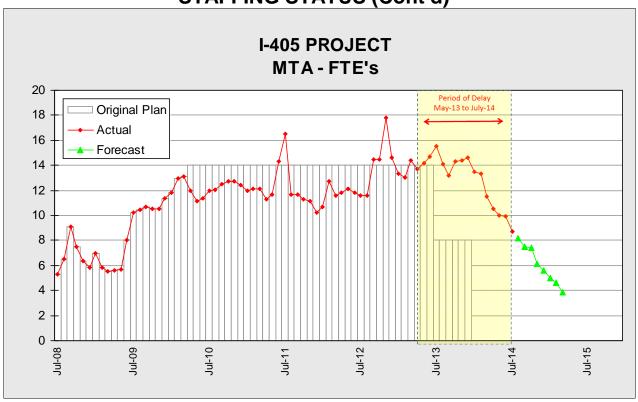
Total Project Staffing - FTEs

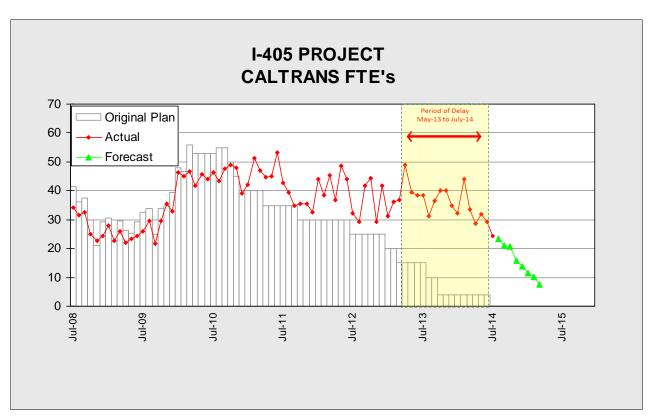


Total Project Staffing

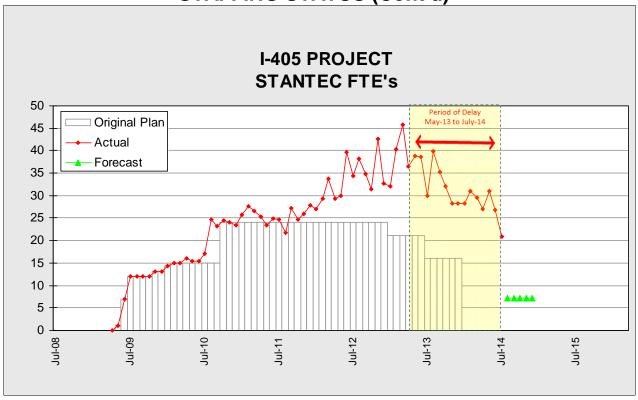
Due to the project delay, project staffing has been reforecasted through the end of project as shown in the staffing status charts.

STAFFING STATUS (Cont'd)





STAFFING STATUS (Cont'd)



REAL ESTATE STATUS

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

- Parcel 79612 (MWD) Right-of-Entry (ROE) is in place for the SB Skirball Ramps and all works inside the MWD property. Annual renewal is required. Caltrans is in the process of finalizing and acquiring the Permanent ROW requirements.
- ROW Tie-back easements at 1791/1797 ROE has been provided. Caltrans is in the process of acquiring the permanent rights pending a meeting with the Getty.
- Parcel 79619 (LACMTA) Construction has been completed. Caltrans HQ is currently reviewing the deeds.
- Permanent and Temporary easements are required at the Leo Baeck Temple to install signal foundation at Getty Center Drive and Sepulveda – An ROE (temporary easement) has been granted and currently Caltrans is in the process of acquiring the permanent easement. Caltrans has submitted a second revision of the ROW contract and is waiting to hear back from Leo Baeck. No delays to construction will occur due to Real Estate.
- Parcel 79559 (GSA) A temporary construction easement was acquired to do the work at the GSA. Currently the GSA is reviewing the final deeds for final conveyance of the property.

ENVIRONMENTAL STATUS

- Draft Cooperative Agreement between Caltrans and Santa Monica Mountains
 Recreation and Conservation Authority to transfer mitigation funds associated with
 impacts at Getty Villa Trailhead is under review by Caltrans Headquarters.
- Ongoing coordination with Caltrans Design and Kiewit to track and document the completion of the project environmental commitments (avoidance, minimization, and mitigation measures, permits, formal agreements et. al) through the Environmental Commitments Record Implementation Program.
- Ongoing coordination with Caltrans Design and Kiewit to track and document the completion of the project environmental commitments (avoidance, minimization, and mitigation measures, permits, formal agreements et. al) through the Environmental Commitments Record Implementation Program.
- Ongoing coordination with the Resource Conservation District of the Santa Monica Mountains regarding California Department of Fish and Wildlife and Regional Water Quality Control Board permit amendment requirement of .75 acres of riparian mitigation.

COMMUNITY RELATIONS STATUS

- Distributed construction notices for the following construction activities: demolition of the existing curb and gutter, sidewalk and new ADA ramp on the southwest corner of Beloit Avenue, painting of steel girders on the Sepulveda Blvd. undercrossing, installation of electrical loops on the mainline, full depth reconstruction on Fiume Walk, electrical installation of loops on the mainline, contractor completed remaining work on the bridge overhang on Sepulveda Blvd., profile and grinding and polyester concrete overlay on the Mulholland Bridge, top lift paving on Mulholland Drive, profile and grinding, joint seal and median island work on the Skirball Bridge, installation of conduit, pull boxes, paving back trenches, installation of poles and cables, sidewalk, curb and gutter and installation of ADA ramps at the corner of Fiume Walk and Sepulveda Blvd., polyester concrete paving and methacrylate deck treatment on the Sepulveda undercrossing, methacrylate deck treatment on the Mulholland Bridge, final striping on the Skirball and Mulholland Bridge, drilling soil nails into the slope behind retaining wall 2011, signal installation, k-rail removal and final striping on Sepulveda Blvd., replacing existing curb and gutter, pedestrian ramps and sidewalk on Sepulveda Blvd., sidewalk, curb and gutter work on Church Lane, work at Wall 1720/1730, staining the slope paving, street paving, grind and overlay and gutter installation at Thurston Avenue and Sunset Blvd., pouring catch basin and drainage system at Church Lane and Sepulveda Blvd.; installation of soffit lights under the bridge at Sepulveda Blvd. and installation of street light conduit at Sepulveda Blvd.,
- Participated in the following meetings: Royal Woods Neighborhood Watch Meeting.
- Coordinated the following work activities: Traffic mitigation for Skirball Cultural Center's Summer Concert, noise mitigations on Fiume Walk, several operations at the Skirball Cultural Center, Mulholland Education Corridor and Bel Air Crest, methacrylate deck treatment notices for the Mulholland Bridge and Sepulveda Undercrossing, irrigation concerns on Sutton cul-de-sac, secured a contractor to fix broken sprinklers on Sutton cul-de-sac, noise concerns during the full depth reconstruction of Fiume Walk; signage during Sepulveda Blvd. closures, fencing and debris affecting the Luxe Hotel, alerted businesses along Sepulveda and Moraga and Bronwood Apartments about paving, researched outreach efforts since the beginning of the I-405 Project for Caltrans and Kiewit Environmental Committee and coordinated traffic mitigations for Getty Center Concerts.

QUALITY ASSURANCE STATUS

- Metro Quality participated in:
 - o Bi-weekly Quality Team Meetings.
 - Weekly Construction Progress Meetings.
- Daily operation and formal walks to identify and resolve punch list items in preparation for contract closeout.
- Monitor KIWC's TAP Program.

SAFETY AND SECURITY STATUS

- There were no injuries on the Project during July 2014.
- Safety Staff participated in scheduled 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
- Safety staff attended weekly Progress Meeting, Foreman's Weekly Safety Meetings and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- July Contractor Work Hours (Design & Construction): 98,326
- Contractor Project to Date Work Hours (Design & Construction through 7/31/2014): 8,395,889
- Total Project to Date Work Hours (Contractor & the IPO Staff through 7/31/2014): 9,168,382
- Project to Date Recordable Injury Rate: 0.7 (Thirty-four Recordable Injuries) (each rate is per 200,000 work hours).
- Project to Date Total Time Away Injury Rate: 0.3 (Fifteen Time Away From Work Injuries).
- Project to Date Total Days Away Rate: 26.2 (1201 Days Away From Work)
- Metro Construction Safety is providing Safety and Security Contract Compliance oversight during both day and night shifts as many as six days a week due to overall project work schedule.

THIRD PARTY AGREEMENT STATUS

| Third Party | Type of Agreement | Forecast Execution Date | Required Need Date | Status/ Comments |
|---|-----------------------|-------------------------------|-----------------------|--|
| City of Los Angeles | MCA | Cancelled | Cancelled | A stand-alone Master Cooperative Agreement (MCA) between the City of Los Angeles and LACMTA is no longer being pursued because the I-405 will soon be completed and County Counsel advised an MCA is not required. |
| 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

| I-405 Sepulveda Pass Improv Design/Build Contractor: Kie | - | Contract No.: | C0882 | | | | |
|--|---|---|--|-------------------|---------------------|------------------------|-----------------------|
| | | Status as of: | August 1 | , 2014 | | | |
| Progress/Work Completed: Major work started/completed this period: SB I-405 final lane configuration complet Bridge 21 Skirball Center Drive bridge we Wall 1746 slope paving completed. Walls 1720 and 1730 slope paving stain Textured paving at wall 1766 and bridge Area 2 final inspection of LABSL lighting Maintenance during construction - SWPF repairs, graffiti removal from k-rails, trash a | Major Activities Grading and pavir Permanent lighting Permanent traffic Getty Center Nortl Skirball Center Dr Irrigation and land Maintenance durin Major Activities Area 4 Sunset: S Area 7 Valley Vist | ng. g installation signals insta h Canyon pa ive NB elbov scaping. ng constructi Next Peric Substantial co | llation. urking lot. v wall const on. od: completion. | | | | |
| Global Maintenance of Traffic (MOT). | | | | | | | |
| | | | 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 | 149 | 10/27/13 | 10/01/14 | -339 |
| | | Punchlist Complete | 08/29/13 | 149 | 01/25/14 | 12/30/14 | -339 |
| | | Final Acceptance | 11/27/13 | 149 | 04/25/14 | 03/30/15 | -339 |
| | | | | | | | |
| Schedule Summary: | | Cost Summary: | | | | \$ In 000's | |
| Notice of Award | 04/29/09 | Award Value |) : | | | 720,922 | |
| Notice to Proceed | 06/02/09 | 2. Executed Mo | odifications | s: | | 144,490 | |
| Original Contract Duration (CD) | 1640 | 3. Approved Ch | nange Ord | ers: | | 44,695 | |
| Approved Time Extensions (CD) | 149 | Current Cont | tract Value | e (1 + 2 + | 3): | 910,107 | |
| Current Contract Duration (CD) | 1789 | 5. Incurred Cos | st: | | | 840,087 | |
| Forecast Contract Duration | 2127 | 6. Percent Incu | rred Cost: | | | 92.3% | |
| Forecast Final Acceptance | 03/30/15 | | | | | | |
| Elapsed Time from NTP (CD) | 1,887 | | | | | | |
| Contract Elapsed Time Percent | 88.7% | | | | | | |

CHRONOLOGY OF EVENTS

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|-------------------------------------|--|
| 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. |
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| 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. |
| | |

| 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 ExxonMobil16" 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. |
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| 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. |
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| | 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. | | |
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|--------------------|---|
| 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. |

| 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 nd 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. | |
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| 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. |

| 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. |
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| June 2, 2012 | NW1 Ramp from WB I-10 to NB I-405 is opened for traffic. |
| June 6, 2012 | GSA Microwave Security System is installed. |
| June 7, 2012 | Bridge 7 NB I-405 to EB Wilshire Off-ramp Columns for Bents 3 and 4 are constructed on GSA Property. |
| June 22, 2012 | 90-Day Shutdown of Bridges 10 & 11 NB I-405 to WB Wilshire and WB Wilshire to NB I-405 commenced. |
| June 27, 2012 | Demolition of existing Bridges 10 & 11 is completed. |
| July 15, 2012 | Bridge 21 Skirball Center Drive, North side, is opened to traffic. |
| July 20, 2012 | Bridge 22 Mulholland Drive, Top Deck is poured. |
| July 21, 2012 | Bridges 10 & 11 Pre-cast Girders are installed. |
| July 30, 2012 | Bridge 21 Skirball Center Drive, South Side, Demolition is started. |
| August 3, 2012 | Bridge 21 Skirball Center Drive, South Side, Demolition is Completed. |
| August 10, 2012 | Bridges 10 & 11 Top Deck is Poured. |
| August 23, 2012 | Bridge 16 Sunset Blvd. Top Deck is Poured. |
| August 31, 2012 | Bridges 10 & 11 are Opened for Traffic. |
| September 4, 2012 | Bridge 7 Falsework installation begins. |
| September 24, 2012 | Bridge 16 is fully opened for traffic. |
| September 24, 2012 | Bridge 22 South Side is opened for traffic. |
| September 28, 2012 | Began demolition of the north side of Mulholland Bridge 22. |
| September 30, 2012 | Complete demolition of the north side of Mulholland Bridge 22. |
| October 1, 2012 | Began construction activities for Bridge 17, Church Lane UC. |
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| October 1, 2012 | Began construction activities for Bridge 22, Mulholland OC north side. |
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| October 15, 2012 | MSE Wall 1897 reconstruction is completed. |
| October 19, 2012 | Bridge 15 Sunset NB On-ramp, top deck is poured. |
| October 23, 2012 | RW 1720 punch list work begins. |
| November 4, 2012 | Re-aligned Sepulveda Blvd. to the east at Bronwood Apartments. |
| November 6, 2012 | Begin construction activities for Bridge 14 Sunset NB Off-ramp. |
| November 8, 2012 | Bridges 6A and 6B SB Off-ramp to EB Wilshire abutments poured. |
| November 28, 2012 | Completed re-striping and realignment of Sepulveda Blvd. to the east at walls 1720 & 1730. |
| November 29, 2012 | Completed pouring Top Deck at Bridge 1 I-10 Connector. |
| December 4, 2012 | Completed installation of Pre-Cast Girders at Bridge 2 Exposition. |
| December 6, 2012 | Sepulveda Blvd. is restriped and realigned from Montana Avenue to Bridge 14 NB Sunset Off-Ramp. |
| December 20, 2012 | Completed pouring Top Deck at Bridge 18 Getty Center Drive NB and SB. |
| December 21, 2012 | Completed girder installation at Bridge 6A and 6B SB Wilshire Off-Ramp. |
| January 4, 2013 | False work for Bridge 7 is completed allowing construction of CIP Box Girder to progress from abutment to abutment. |
| January 4, 2013 | Completed installation of 10' diameter CIDH Piles for Bridge 14 Construction of foundation piles is started. |
| January 15, 2013 | Completed pouring outside stems for Bridge 8. |

| January 23, 2013 | Completed installation of top deck metal decking for Bridge 6A. |
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| February 3, 2013 | Opened new SB 405 On-ramp from Skirball Center Drive. |
| February 11, 2013 | Began installation of Falsework for Mulholland Bridge north side. |
| February 21, 2013 | Opened new SB 405 On-ramp from EB Wilshire Blvd. |
| February 22, 2013 | Opened new NB 405 On-ramp from Cotner Ave. at Olympic Blvd. |
| March 8, 2013 | Began 14-day closure of SB I-405 to WB Wilshire Off-ramp to allow construction of new Off-ramp. |
| March 16, 2013 | Completed construction of new SB I-405 to WB Wilshire Off-ramp and re-opened the Off-ramp 6 days early. |
| March, 22, 2013 | Began forming bottom deck of north side of Bridge 22, Mulholland OC. |
| March 25, 2013 | Opened new Bridge 1, I-10 EB to I-405 NB, and began demolition of existing Bridge 2 Span 4 to Abutment 9. |
| April 6, 2013 | Completed paving on NB side of I-10 to I-405 Interchange Area. |
| April 9, 2013 | Completed Bridge 22, Mulholland Dr. OC, Falsework installation. |
| April 18, 2013 | Completed Bridge 7, NB 405 to EB Wilshire Off-ramp, Top Deck installation. |
| May 3, 2013 | Completed NB I-405 paving activities in the Santa Monica Area. |
| May 23, 2013 | Change Order 105.00 is issued extending the Substantial Completion Deadline by 149 days to October 27, 2013. |
| May 24, 2013 | General Purpose Lane opened in Segment 1 from the I-10 to the Santa Monica Area. |
| May 30, 2013 | Began removal of Falsework at Bridge 7 NB I-405 to EB Wilshire Off-ramp. |
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| June 11, 2013 | Additional NB General Purpose Lane is opened to traffic from Santa Monica Blvd. to Wilshire Blvd. |
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| June 20, 2013 | Completed work on Bridge 7, NB 405 to EB Wilshire Off-ramp. |
| June 21, 2013 | Completed installation of girders on Bridge 21, Skirball Center Drive OC. |
| June 22, 2013 | Bridge 15, Sunset Blvd. to NB 405 On-ramp, opened to traffic. |
| June 26, 2013 | Bridge 7, NB 405 to EB Wilshire Off-ramp, opened to traffic. |
| June 29, 2013 | Bridge 22, Mulholland OC, completed pouring Top Deck. |
| July 3, 2013 | Bridge 7, NB 405 to EB Wilshire Off-ramp, demolition of existing bridge is completed. |
| July 18, 2013 | Bridge 22, Mulholland OC, Falsework removal is started. |
| July 30, 2013 | Area 2, Santa Monica Area, Median paving is completed. |
| August 2, 2013 | Bridge 14 Sunset NB Off-ramp, 120-Day Closure Window begins. |
| August 4, 2013 | Bridge 14 Sunset NB Off-ramp, Demolition of existing bridge is completed. |
| August 15, 2013 | Bridge 17 Sepulveda UC, Top Deck concrete is poured. |
| August 22, 2013 | Bridge 8 EB Wilshire to NB 405 On-ramp, 90-Day Closure Window begins. |
| August 22, 2013 | Bridge 8 EB Wilshire to NB 405 On-ramp, Demolition of existing bridge is completed. |
| Sept. 12, 2013 | Bridge 14 Sunset Off-ramp, steel girder installation over Sepulveda Blvd. is started. |
| Sept. 14, 2013 | SB I-405 to Valley Vista Off-ramp to EB Wilshire, new Off-ramp is opened to traffic. |
| Sept. 23, 2013 | Bridge 6A and 6B SB I-405 Off-ramp to EB Wilshire, new Off-ramp is opened to traffic. |

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| Sept. 24, 2013 | Bridge 14 Sunset Off-ramp, steel girder installation over Sepulveda Blvd. is completed. |
| Sept. 30, 2013 | SB I-405 to Skirball Center Drive Off-ramp, new Off-ramp is opened to traffic. |
| October 7, 2013 | Bridge 8 EB Wilshire Blvd. to NB I-405 On-ramp, top deck and barrier concrete pour completed. |
| October 8, 2013 | Bridge 2 Exposition Avenue UC, top deck concrete pour completed. |
| October 25, 2013 | Bridge 23 Sepulveda Blvd. UC, top deck concrete pour completed. |
| October 26, 2013 | Bridge 21Skirball Center Dr. OC, top deck concrete pour completed. |
| October 30, 2013 | Bridge 8 EB Wilshire Blvd. to NB On-ramp falsework removed. |
| November 2, 2013 | SB I-405 On-ramp from EB Wilshire Blvd. is opened to full capacity traffic. |
| November 17, 2013 | Bridge 8 EB Wilshire Blvd. to NB I-405 On-ramp is opened to traffic. 90-day closure window is ended. |
| November 23, 2013 | Bridge 14 I-405 NB Off-ramp to Sunset Blvd. Falsework is removed. |
| November 24, 2013 | Bridge 21 Skirball Center Drive OC falsework is removed. |
| November 25, 2013 | Bridge 14 I-405 Off-ramp to Sunset Blvd. is opened to traffic. 120-day closure window is ended. |
| December 14, 2013 | Bridge 17 Church Lane UC, Top Deck Concrete is poured. |
| December 17, 2013 | RW 1720 & 1730, Shotcrete installation is completed. |
| December 18, 2013 | Bridge 22, Mulholland OC, Bridge is opened to full traffic capacity. |
| December 23, 2013 | Bridge 2, Exposition UC, Bridgework is completed. |

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| January 7, 2014 | RW 1730, artwork installation is started. |
| January 21, 2014 | Bridge 21 Skirball Center drive, approach slabs completed. |
| January 23, 2014 | Bridge17 Church Lane, approach slabs completed. |
| January 24, 2014 | Bridge 19 Sepulveda Blvd., bridge work completed. |
| February 4, 2014 | Bridge 23, Sepulveda Blvd., bridge work completed. |
| February 14, 2014 | 80-hour lane reduction begins. |
| February 18, 2014 | 80-hour lane reduction ends. |
| February 18, 2014 | Area 5-7 median barrier installation and AC grind and overlay, planned during 80-hour lane reduction, completed. |
| March 4, 2014 | Getty Center North Canyon Road Construction begins with drainage system installation. |
| March 5, 2014 | Walls 1720 and 1730 Artwork stenciling completed. |
| March 12, 2014 | Area 6 Skirball Center NB I-405 traffic switched to new median lane. |
| March 15, 2014 | Area 4 Sepulveda Blvd. SB paving replacement from Montana Avenue tor Church Lane begins. |
| March 21, 2014 | Bridge 21, Skirball Center Dr., additional lane, total of 2 SB lanes and 1 NB Lane, opened to traffic. |
| April 11, 2014 | Bridge 9, NB I10 to Wilshire Blvd. HOV Lane opened to traffic. |
| April 28, 2014 | NB I-405 I-10 to Wilshire Blvd. HOV Lane opened to traffic. |
| May 23, 2014 | NB I-405 HOV Lane fully opened to traffic. |
| May 31, 2014 | SB I-405 General Purpose Lanes from Getty Center to Wilshire Area, paving and permanent delineation completed. |
| June 1 , 2014 | Area 4 Sunset, Mainline K-rail removal completed. |
| June 1, 2014 | Area 5 Sepulveda, Mainline Pavement grind and overlay and Krail removal completed. |

| I-405 Sepulveda Pass Improvements Project | July 2014 |
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| Monthly Project Status Report | |

| June 25, 2014 | Area 7, Valley Vista, cul-de-sac paving completed. |
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| July 3, 2014 | SB I-405 final lane configuration completion. |
| July 10, 2014 | Wall 1746 slope paving completed. |
| July 11, 2014 | Walls 1720 and 1730 slope paving stain completed. |
| July 16, 2014 | Area 2 LABSL lighting final inspection completed. |

















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
LADDW Los Angeles Department of Public Works

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

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for

SAFETEA-LUUsers

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