Westside Purple Line Extension



WESTSIDE PURPLE LINE EXTENSION PROJECT

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

JANUARY 2014

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Westside Purple Line Extension Project Monthly Project Status Report

PROJECT SUMMARY

LOCATION:	Los Angeles /	Beverly Hills		CONSTRUCTION MANA	GEMENT CO	NSULTANT: V	WEST JV		
DESIGN CONSULTANT:	Parsons / Brin	ckerhoff		CONTRACTOR:	TBD				
EXPLORATORY	SHAFT TESTI	ING ACTIVITIE	S	WORK COMPLETED PAST MONTH					
		- C1034 Exploratory Shaft excavation to 58' depth - C1048 Advanced Utilities Relocations continuing at La Brea - CES Advanced Utility Relocations continuing at La Brea - Continued efforts seeking relief from Peak Hour Exemptions at locations other than La Brea - Continuing real estate needs coordination for Division 20 - Continuing Advanced PE for C1078 Division 20 MOW and NRV facilities - Continuing design for advanced utilities relocations and traffic control at La Cienega - Preparation of Traffic Control Plans for station construction - C1045 RFP Proposals were received on January 30, 2014							
EXPENDITURE STATUS (\$ In Millions)		SCHEDULE ASSESSME	ENT						
ACTIVITIES	CURRENT ESTIMATE	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PLAN	CURRENT PLAN	VARIANCE WEEKS		
DESIGN	\$163.0	\$52.1	32.0%	Environmental FEIS / FEIR	N/A	05/31/12	Complete		
DESIGN	φ103.0	φ32.1	32.076	FEIS/FEIR	IN/A	03/31/12	Complete		
RIGHT-OF-WAY	\$212.5	\$1.4	0.7%						
CONSTRUCTION	\$1,437.6	\$9.5	0.7%	Design PE Notice to Proceed	N/A	01/12/11	Complete		
OTHER	\$1,048.2	\$55.9	5.3%	Final Design complete	02/22/17	02/22/17	0		
TOTAL	\$2,861.3	\$118.9	4.2%						
Current Estimate includes Pla	nning and Finai	nce Costs.		Right-of-Way All parcels available	05/23/15	05/23/15	On Schedule		
AREAS OF CONCERN						ı l			
				Construction - Main De	sign / Build C	ontract			
- Market conditions may lead t	o higher constr	ruction costs		Notice to Proceed	08/25/14	08/25/14	0		
				Construction complete	06/25/23	06/25/23	0		
ROW ACQUISITION	PLAN	ACQUIRED	REMAINING	CRITICAL ACTIVITIES /	3 MONTH LO	OK AHEAD			
PERMANENT PARCELS	24	0	24	- CES: Complete advanced utility relocations at La Brea					
				- C1034 Exploratory Share					
TEMPORARY PARCELS	3	0	3	- C1045 Design / Build co					
				 C1048 La Brea Advanc C1055 Fairfax Advance 	•				
					•	•			
		1	1	 C1056 La Cienega Advanced Utility Relocations: Bid period C1078 Division 20 MOW and NRV facilities: Prepare design-build RFP package 					

PROJECT OVERVIEW & STATUS

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.

Design

The Engineering Management Services Consultant continues to advance the design package for the Wilshire/La Cienega Advanced Utility Relocations (AUR) contract, the Division 20 Maintenance-of-Way Building and the Non -Revenue Vehicle facility and supporting Metro in the procurement of the major Design/Build Contract (C1045).

For the Wilshire/Fairfax Station AUR Contract (C1055), the engineer's estimate was finalized. Construction bids are due on February 4, 2014.

For the Wilshire/La Cienega Advanced Utility Relocations Contract (C1056), the design package was finalized. The technical package is being finalized at period end for a meeting with the City of Beverly Hills to solicit the City Engineer's approval, which is expected early next period.

The design team continued to progress the traffic control drawings and temporary signal plans for peak hour exemptions for pile construction at the Wilshire/Fairfax Station and the Wilshire/Western TBM extraction shaft. This includes incorporating comments from the City of Los Angeles Department of Transportation and Bureau of Engineering. The team also completed the construction parking mitigation plan for the Wilshire/La Cienega Station during the pile construction.

The design team continued with the design of the Division 20 Building 61S, specifications and LEED requirements. A rooftop parking design scheme is being consider in lieu of a surface parking lot.

Major Contract Procurement

Contract C1045 RFQ proposals were received on January 30, 2014.

Amendment 7 for Contract C1055 was issued on January 3, 2014. Price bids are due on February 4, 2014.

PROJECT OVERVIEW & STATUS (Continued)

Construction

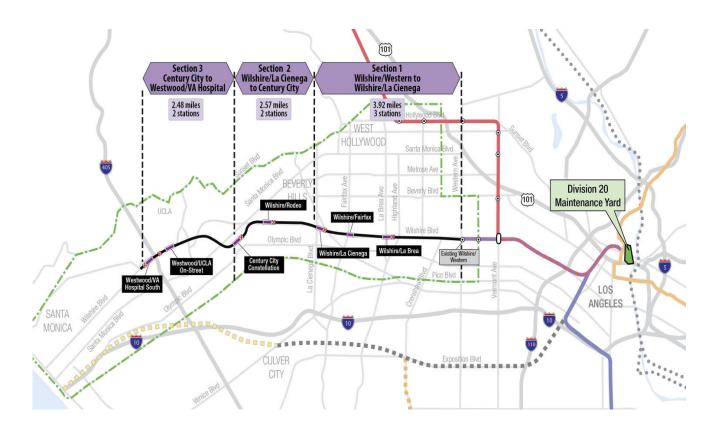
Excavation of the Fairfax Exploratory Shaft, Contract C1034, has progressed to the 58 foot level. To date, no fossils have been found. The design/build proposers visited the site on January 17, 2014. This marked the third visit prior to submitting their proposals on January 30, 2014.

The advanced utility relocations at Wilshire/La Brea, Contract C1048, are six months into construction. The contractor is working within the approved holiday moratorium period, nights and weekends.

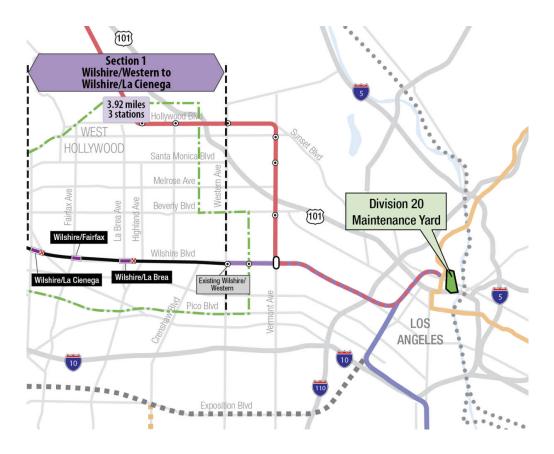
MANAGEMENT ISSUES

No Management Issues this period.

PROJECT ALIGNMENT by SECTIONS



PROJECT ALIGNMENT SECTION 1



BASE PROJECT SCOPE

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

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The Wilshire/La Brea Station box will be located under the center of Wilshire Boulevard in between Detroit Street and Orange Drive. A double crossover will be located east of the station box. The station entrance will be on the northwest corner of Wilshire Boulevard and La Brea Avenue.

The Wilshire/Fairfax Station box will be located under the center of Wilshire Boulevard west of Fairfax Avenue to west of Ogden Drive. The station entrance will be on the southeast corner of Wilshire Boulevard and Orange Grove Avenue.

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for Section 1, tail tracks will be located west of the station box.

Contract C1034 – Wilshire/Fairfax Exploratory Shaft

Metro is constructing an exploratory shaft to observe ground conditions prior to the award of Contract C1045. The location of the exploratory shaft is adjacent to the future Wilshire/Fairfax Station. The construction of the shaft includes furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft will be maintained for an observation time period. Afterwards, the shaft will be dismantled and the site backfilled in a condition acceptable to the property owner.

BASE PROJECT SCOPE (Continued)

Contract C1048 - Wilshire/La Brea Advanced Utility Relocations

Relocate existing LADWP power, water utilities and a sewer line within the construction limits of the Wilshire/La Brea Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

<u>Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations</u>

Relocate existing LADWP power and water utilities within the construction limits of the Wilshire/Fairfax Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews installing cabling and during cut-over of the existing utilities.

Contract C1056 - Wilshire/La Cienega Advanced Utility Relocations

Relocate existing City of Beverly Hills water, storm drain and sewer utilities within the construction limits of the Wilshire/La Cienega Station. The contractor is to obtain the necessary permits necessary for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews during cut-over of the existing utilities.

<u>Contract C1045 - Tunnels, Stations, Trackwork, Systems and Systems Integration</u> Testing

The procurement of this contract utilizes a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

The Design/Build contract provides for final design and construction of the infrastructure along the 3.92 mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The structures to be constructed include twin bored tunnels, complete with cross-passages and walkways, including all mechanical, electrical and finish work. A retrieval shaft will be constructed to the west of the existing Wilshire/Western Station for extraction of the tunnel boring machines. Three underground stations are to be constructed, two with double-crossovers, and the terminus station to include tail tracks. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work includes all architectural finishes, mechanical, electrical, systems and equipment including train control, traction power, communications, trackwork and the system tie-in to the existing Metro Purple Line, testing and commissioning.

BASE PROJECT SCOPE (Continued)

Metro Furnished Equipment

Metro will procure separate contacts to provide the 34 Heavy Rail Vehicles (HRV) and the Universal Fare System (UFS) necessary to operate the extension to the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract includes design, fabrication and installation of equipment at the three stations and system testing.

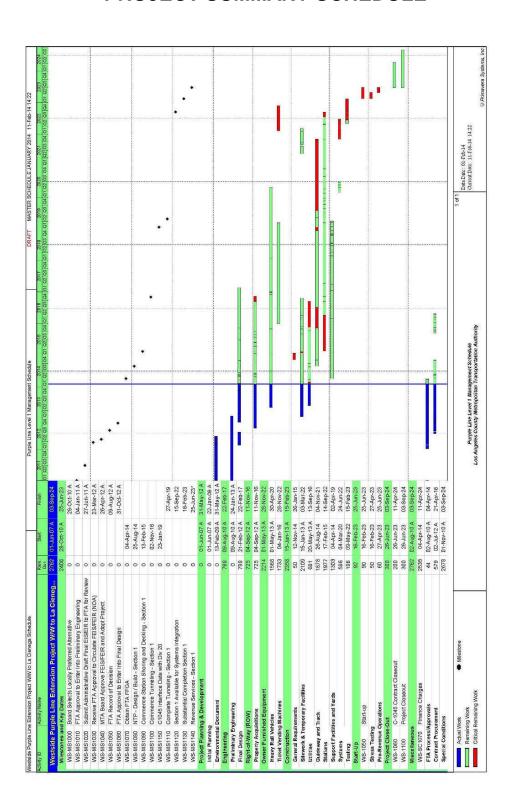
Start Up

The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a "stress test" of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains, on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; as well as abnormal and emergency scenarios in which random combinations of system interactions are tested; equipment "burned-in"; and training of Metro personnel who will eventually operate and maintain the extension and for emergency services personnel. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

KEY MILESTONES SIX- MONTH LOOK AHEAD

	Milestone Date	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14
Submitted Application to FTA Requesting an FFGA	01/03/14	•					
C1055 Fairfax AUR - Amendment 7 to Bidders	01/03/14	♦					
C1055 Fairfax AUR - Amendment 8 to Bidders	01/24/14	•					
C1045 Design / Build Contract - Submit RFP Proposals	01/30/14						
C1055 Fairfax AUR - Bids Due	02/04/14						
LADWP to Begin Cable Installation at La Brea	02/12/14		Δ				
Complete Final Design of AUR Utilities - La Cienega	02/14/14		0				
C1056 La Cienega AUR - Advertise for Bids	02/21/14		♦				
C1034 Exploratory Shaft - Complete Excavation	02/28/14						
C1034 Exploratory Shaft - Begin Monitoring Period	03/03/14						
C1048 La Brea AUR - Complete Construction - Power	03/12/14						
C1056 La Cienega AUR - Bids Due	03/25/14						
Complete Final Design of 3rd Party Utilities - La Brea	03/27/14			0			
Obtain FTA FFGA	04/04/14				FTA		
C1055 Fairfax AUR - NTP	04/15/14				*		
Complete Final Design of 3rd Party Utilities - Fairfax	05/09/14					0	
C1048 La Brea AUR - Complete Construction - Water	05/29/14						
C1055 Fairfax AUR - Begin Construction - Water / Power	06/25/14						
◆ MTA Staff MTA Board Action	FTA (Federal	Transportation	n Authority)				
△ Other Agencies ☐ Contractors	○ РВ						
"A" following date is actual and completed	★ New						

PROJECT SUMMARY SCHEDULE



CRITICAL PATH NARRATIVE

Critical Path:

The critical path for the Westside Purple Line Extension Project begins with the procurement process for the C1045 Design / Build contract, mobilization of the design team for the selected contractor, and the start of final design for station boxes and tunnels. Final design is concurrent with the La Brea advanced utilities that are being relocated under the C1048 contract. Upon completion, the contractor begins installation of soldier piles, first on the north side of the La Brea station box, and then on the south side. Street decking is then installed, the station structural box is excavated, and invert concrete is placed. Tunneling then begins, first driving eastbound from Wilshire / La Brea to Wilshire / Western. TBMs are removed though a retrieval shaft at Wilshire / Western, re-assembled at Wilshire / La Brea, and then driven westbound to Wilshire / La Cienega. Following construction of cross passages, the critical path continues through construction of the Wilshire / Fairfax station box, installation of trackwork and traction power, systems integration and testing, and pre-revenue operations.

PROJECT COST STATUS

COST REPORT
DOLLARS IN THOUSANDS

DESCRIPTION	ORIGINAL CURRENT EST		ESTIMATE	TE COMMITMENTS		EXPENDITURES		CURRENT FORECAST		ESTIMATE / FORECAST
	DODGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
ENGINEERING/CONSTRUCTION (465518 & 865518)	-	-	2,821,957	261	251,231	4,152	80,111	1	2,821,957	-
465518 & 865518 SUBTOTAL	-		2,821,957	261	251,231	4,152	80,111		2,821,957	-
ENVIRONMENTAL/PLANNING - 405518	-	-	8,505	-	8,505	-	8,505	-	8,505	-
ENVIRONMENTAL/PLANNING - 465518	-	-	30,865	-	30,865	12	30,211	-	30,865	-
405518 & 465518 SUBTOTAL	-	-	39,370	-	39,370	12	38,716	-	39,370	-
TOTAL	-	-	2,861,327	261	290,601	4,163	118,827	-	2,861,327	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 2013

PROJECT COST ANALYSIS

Original Budget

The Original Budget will be established upon receipt of the FFGA, which is expected in early 2014.

Current Estimate

The Current Estimate is \$2.9 billion. A Current Budget will be established upon Board Approval of the Life-Of-Project budget.

Current Forecast

The Current Forecast is \$2.9 billion.

Commitments

The Commitments increased by \$0.3 million due to executed modifications associated with the Advanced Utility Relocations Contract C1048. The Commitments represent Board Approved Budget through Fiscal Year 2014. The \$290.6 million in Commitments to date represents 10.2% of the Current Estimate.

Expenditures

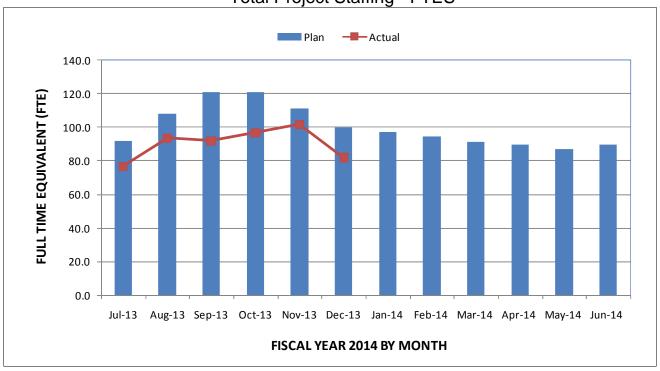
The expenditures are cumulative through December 2013. The expenditures increased by \$4.2 million this period primarily for costs associated with Advanced Utility Relocations, Exploratory Shaft, Third Party Utilities, Engineering Management, Construction Management, and Metro Project Administration. The \$118.8 million in Expenditures to date represents 4.2% of the Current Estimate.

FINANCIAL/GRANT STATUS

Funding source chart will be provided upon adoption of the Life-of-Project Budget.

STAFFING STATUS

Total Project Staffing - FTES

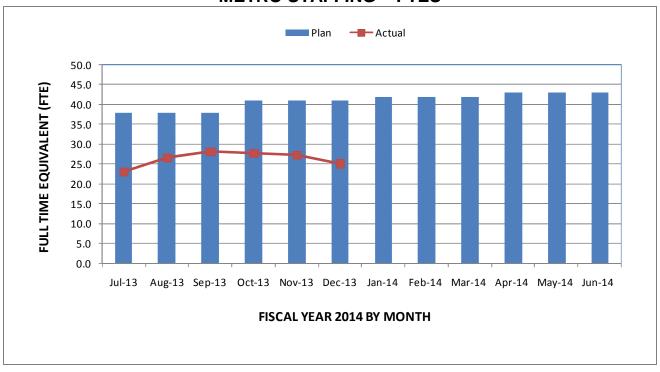


TOTAL PROJECT STAFFING

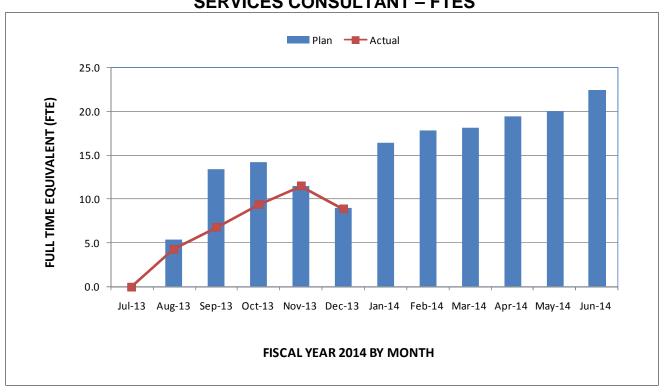
The overall FY14 Total Project Staffing plan averages 100.3 FTE's per month.

For December 2013, there were a total of 25.1 FTE's for MTA's Project Administration staff and 56.9 FTE's for consulting staff. The total project staffing for December 2013 was 82.0 FTEs.

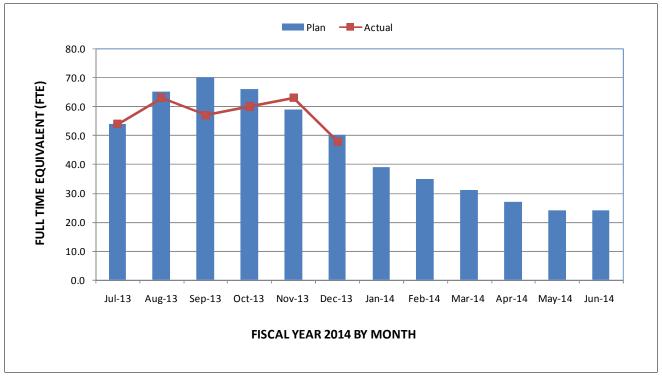
STAFFING STATUS (Continued) METRO STAFFING – FTES



CONSTRUCTION MANAGEMENT SERVICES CONSULTANT – FTES



STAFFING STATUS (Continued) ENGINEERING MANAGEMENT SERVICES CONSULTANT – FTES



REAL ESTATE STATUS

Contract No.	Number of Parcels	Certified	Decertified	Appraisals In Process/ Completed	Offers Made	Agreements Signed	Condemnation Filed	Relocations Complete	Parcels Available
Full Takes	19	19	0	17	9	0	0	0	0
Part Takes	5	3	0	1	1	0	0	0	0
TCE	3	0	1	0	0	0	0	0	0
Sub Total Parcels: Relocations	27	22	1	18	10	0	0	0	0
Total Parcels:	27	22	1	18	10	0	0	0	0

QUALITY ASSURANCE STATUS

C1034 Exploratory Shaft

- Attended weekly Project staff meetings with the Contractor.
- Reviewed and provided comments on submittals.
- Discussed inspection and testing procedures for upcoming activities.
- Coordinated special inspection as required by LA City Building and Safety.
- Coordination with CMSS Inspector.

C1045 Segment 1 Design/Build

- Attended bi-weekly Project staff meetings and pre-construction meetings.
- Met with the Project Design Quality Manager to discuss upcoming submittals and QA/QC schedule.

C1048 Segment 1 Advanced Utility Relocations - La Brea

- Attended weekly Project staff meetings with the Contractor.
- Reviewed and provided comments on submittals.
- Coordination with CMSS Inspector.

ENVIRONMENTAL STATUS

- Continued environmental monitoring support for test shaft for VOC/GAS AQMD Rule 1116, 1150, construction SWPPP and noise.
- Noise and VOC monitoring in support of 1st Phase AUR Contracts and basic oversight on SWPPP requirements.
- Conducted a reassessment of the ambient noise levels for Wilshire Blvd.
- Continued review of contractor submittals for AUR Project.
- Continued review of Phase I ESA's for property acquisitions.
- Initiated OSHA study for employees at test shaft for VOCs in order to further define levels and PPE requirements.
- Provided Noise Awareness Training to Metro Builders construction staff and to Metro Construction Management staff.

CONSTRUCTION RELATIONS STATUS

- Attended Pre-Construction Meetings, Construction Management Meetings, Advanced Utility Relocation Meetings, Exploratory Shaft Meetings, LADWP Coordination Meetings, Construction and Environmental Mitigation Meetings and Pre-Construction Survey Meetings.
- Produced and distributed work notices for advance utility relocation at Wilshire and La Brea and Wilshire and Fairfax.
- Gave project presentations to Beverly Hills City Council, Section 1 Advisory Committee, Windsor Village and the Los Angeles Police Commission.
- Addressed questions on temporary 20 foot soundwall fence at southwest corner of Wilshire/Crenshaw staging yard for local residents, real estate relocation information for business owners, contractor and staff parking in local shopping centers and private spots.
- Worked with Council District 4 to get additional trashcans around the Wilshire/Crenshaw vard.
- Updated Facebook as needed.

CREATIVE SERVICES STATUS

Art Program

- Artist selection development.
- Briefing sessions for Curatorial Advisory Panelists.
- Scheduled artist workshops.
- Ongoing community outreach.
- Attended Advisory Group Meeting and provided Art Program updates.

SAFETY & SECURITY STATUS

- There were no recordable injuries on the Project during January 2014.
- Safety Staff participated in weekly progress meetings and scheduled readiness review meetings to ensure compliance with approved Work Plans and contract specifications.
- Monitored construction activities (Advanced Utility Relocations and Exploratory Shaft) to ensure contractor compliance with contract specifications.
- Safety Staff continues to work with Procurement and Program Management staff to prepare documents for upcoming advanced utility relocation facility design and design/build contract packages.
- Safety Staff continues to work with Program Management and Construction Relations to address issues related to public concerns regarding noise and other issues.
- Providing Safety and Security Contract Compliance oversight during day and night shifts.
- Work Hour and Injury statistics will be reported on a quarterly basis due to the low number of work hours accumulating.

THIRD PARTY AGREEMENT STATUS

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles	Amendment to Master Cooperative Agreement	N/A	N/A	Parties will work under 2003 MCA.
City of Beverly Hills	MCA	3/14	3/14	Metro is reviewing comments received from City of Beverly Hills.
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	N/A	N/A	Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement.
Los Angeles County Public Works	Letter of Agreement	4/11	3/12	Executed
Caltrans	Amendment	8/11	3/12	Executed
Private Utilities	LOA, MOU or UCA	3/14	N/A	Metro is working with affected third party utilities under existing agreements except for Qwest, Time Warner and Level 3 of which comments have been received by Metro from each utility to establish a new MCA. Metro County Counsel is reviewing comments.

ADVANCED UTILITY RELOCATION STATUS

- Verizon Business and Level 3 fiber optic relocation work has been completed. Qwest and Zayo to complete by mid to late February 2014.
- CES is performing the last of the splicing and testing on the fiber lines.
- LADWP Power is scheduled to begin cable pulling on February 3, 2014.

PEAK HOUR AND NIGHTTIME CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate the Project needs. Metro staff is working with the City of Los Angeles Bureau of Engineering and the Los Angeles Police Commission to obtain Peak Hour Exemption and Night Time Work Variance. Current efforts center around extending the existing extended hour permits to accommodate extended hour variances to allow night work and weekend work to accommodate the La Brea and Fairfax soldier pile and decking installation for the D/B contract; and processing of peak hour variance via approved WTCP's to accommodate Metro's D/B soldier pile installation scope at all three stations.

- The Peak Hour Exemption for Wilshire/La Brea pile installation was approved by the City of Los Angeles on November 8, 2013.
- The Nighttime Noise Variance for the Wilshire/La Brea and Wilshire/Fairfax Advanced Utility Relocation work was extended to April 14, 2014.

CHRONOLOGY OF EVENTS

January 2014

June 2007	Began Alternatives Analysis study
January 2009	Board approval of Alternatives Analysis study and next phase
February 2009	Began Draft Environmental Impact Statement / Report (EIS / EIR)
October 2010	Board approval of Draft EIS / EIR and selection of locally preferred alternative
January 2011	FTA approval to enter Preliminary Engineering
May 2011	Began Preliminary Engineering
April 2012	Board certification of Final EIS / EIR and adoption of project
July 2012	Completion of Exploratory Shaft final design
August 2012	FTA Record of Decision
September 2012	Began Real Estate Acquisition
November 2012	Began Final Design - C1048 - Advanced Utilities Relocation contract - La Brea
November 2012	Began Final Design - C1055 - Advanced Utilities Relocation contract - Fairfax
November 2012	Issued RFQ for C1045 Design / Build contract
December 2012	Began Final Design - C1056 - Advanced Utilities Relocation contract - La Cienaga
January 2013	Began C1034 Exploratory Shaft construction
February 2013	Received RFQ responses for C1045 Design / Build contract

CHRONOLOGY OF EVENTS (Continued)

June 2013	Issued RFP for C1045 Design/Build Contract
June 2013	Beginning of C1055 AUR Fairfax Bid Period
July 2013	Submitted draft FFGA application
July 2013	Completed Final Design - C1048 - Advanced Utilities Relocation contract La Brea
July 2013	Submitted TIFIA loan application
August 2013	Began C1048 Advanced Utilities Relocation at La Brea
August 2013	NTP for Construction Management Services Contract
January 2014	Submitted application to FTA requesting an FFGA.
January 2014	Received RFP Proposals for Contract C1045.

CONTRACT C1034 STATUS

Description: Exploratory Shaft Contractor: Innovative Construction Solutions (ICS)	Contract No. C1034 Status as of: January	y 31, 201	14					
Progress / Work Completed:	Major Activities (In Progress): - Shaft excavation to fourth waler and bottom of pit - Install steel platforms and stairs - Install shotcrete lagging / rebar - Gas monitoring							
- Notice to Proceed: 01/15/13 - Demolition / site preparation: 04/05/13 - 06/17/13 - Site Utilities: 05/06/13 - 09/04/13 - Soldier Piles: 07/05/13 - 08/27/13 - Shaft excavation started: 09/03/13 - Shaft excavation to 15' depth: 10/18/13 - Shaft excavation to 20' depth: 11/01/13 - Shaft excavation to 32' depth: 11/30/13 - Shaft excavation to 44' depth: 12/27/13 - Shaft excavation to 58' depth: 01/31/14								
Areas of Concern:	Major Activities Next Period: - Complete shaft excavation to bottom of pit - Install steel platforms and stairs - Install shotcrete lagging / rebar - Gas monitoring							
Schedule Summary:	Original Contract	Time Extension	Current Contract	Forecast	Variance CDs			
Date of Award: 11/26/12 Notice to Proceed: 01/15/13	Notice to Proceed 01/15/13	0	01/15/13	01/15/13	0			
Original Contract Duration: 669 CD Current Contract Duration: 683 CD	Milestone 1: 02/13/14 Shaft Completion	16	03/01/14	02/28/14	1			
Elapsed Time from NTP: 383 CD	Milestone 2: Substantial Completion	14	11/28/14	11/28/14	0			
Physical Percent Complete:	Cost Summary: 1. Award Value:		\$ In millions					
Physical completion as of 01/31/14: 72%* * Note: Physical completion assessment reflects	Executed Modifications: Approved Change Orders: Current Contract Value (1+2)	Executed Modifications: 0.3 Approved Change Orders: 0.0						
work completed and work in progress.	Incurred Cost:	,.		6.8 4.4				

CONTRACT C1048 STATUS

Description: AUR - La Brea Contractor: Metro Builders & Engineers Group	Contract No. C1048 Status as of: January 31, 2014									
Progress / Work Completed:		Major Activities (In Progress):								
Procurement: elect conduit / vaults / hydrar Preparation for and power relocation at: Orange Drive - South of Wilshire Intersection of Orange and Wilshire Wilshire to Sycamore Ave. Sycamore Ave - North of Wilshire Sycamore Ave - South of Wilshire Wilshire and La Brea Preparation for water relocation at: Wilshire and La Brea Areas of Concern:	At various locations throughout La Brea Station area: - Traffic control - Site preparatation / excavation / shoring - Conduit installation - Encase conduit - Slurry backfill - Vault Installation - Pavement Restoration Major Activities Next Period: At various locations throughout La Brea Station area: - Traffic control - Continue site preparatation / excavation / shoring - Continue conduit installation - Continue encase conduit - Continue vault installation									
Schedule Summary:			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs			
Date of Award.	13/13 01/13	Notice to Proceed	08/01/13	0	08/01/13	08/01/13	0			
Original Contract Duration: Current Contract Duration:	230 CD 302 CD	Milestone 1: Completion of LADWP Power Work	12/28/13	0	12/28/13	03/12/14	-74			
Elapsed Time from NTP:	185 CD	Milestone 2: Substantial Completion	03/18/14	0	03/18/14	05/29/14	-72			
Physical Percent Complete:		Cost Summar		\$ In millions						
Physical completion as of 12/27/13: 47%* * Note: Physical completion assessment re	eflects	 Award Value: Executed Modifications: Approved Change Orders: Current Contract Value (1+2+3): 								
work completed and work in progress.		5. Incurred Cost:	•	-		2.3				

CONSTRUCTION PHOTOGRAPHS



View of Exploratory Shaft Ventilation Ducts and Carbon Scrubbers

CONSTRUCTION PHOTOGRAPHS



Exploratory Shaft Excavation Showing Three Levels of Steel Walers and Struts

CONSTRUCTION PHOTOGRAPHS



Slurry Backfill Over Utility Ductbank by the C1048 (Wilshire/La Brea) Contractor

APPENDIX COST AND BUDGET TERMINOLOGY

Project Cost Descriptions

ORIGINAL BUDGET The Original Project Budget as authorized by the Metropolitan

Transportation Authority (Metro) Board (to be established).

CURRENT BUDGET The Original Budget plus all budget amendments approved by

formal Metro Board action. Also referred to as Approved

Budget.

COMMITMENTS The total of actual contracts awarded, 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 services, third party services, staff salaries, real estate and other expenses that is reported in

Metro's Financial Information System (FIS).

CURRENT FORECAST The best estimate of the final cost of the Project when all

checks have been issued and the Project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for

each budgeted cost item.

Cost Report by Element Descriptions

CONSTRUCTION Includes construction contracts. Cost associated with

Guideways, Stations, Southwestern Yard, Sitework/Special.

Conditions and Systems.

RIGHT-OF-WAY Includes purchase cost of parcels, easements, right-of-entry

permits, escrow fees, contracted real estate appraisals and

tenant relocation.

VEHICLES Includes the purchase of Heavy Rail Vehicles and spare parts

for the Project.

PROFESSIONAL

SERVICES

Includes design engineering, project management assistance, construction management support services, legal counsel,

agency staff costs, and other specialty consultants.

CONTINGENCY A fund established at the beginning of a project to provide for

anticipated but unknown additional costs that may arise during

the course of the Project.

PROJECT REVENUE Includes all revenue received by Metro as a direct result of

project activities. This includes cost sharing construction items,

insurance premium rebates, and the like.

APPENDIX LIST OF ACRONYMS

ATC Automatic Train Control

ATSAC Automated Traffic Surveillance and Control

BAFO Best and Final Offer

BIM Building Information Modeling

BNSF Burlington Northern Santa Fe Railway Company

BRT Bus Rapid Transit

CADD Computer Aided Drafting and Design CALTRANS California Department of Transportation

CCTV Closed Circuit Television

CD Calendar Day

CEQA California Environmental Quality Act

CM Construction Manager

CMAQ Congestion Mitigation and Air Quality Improvement Program

CMSC Construction Management Services Consultant

CN Change Notice
CO Change Order
COBH City of Beverly Hills
COLA City of Los Angeles
CPM Critical Path Method

CPUC California Public Utilities Commission

CR Camera Ready

CSPP Construction Safety Phasing Plan CTC California Transportation Commission

CUD Contract Unit Description

DB Design Build
DBB Design Bid Build

DOT Department of Transportation
DWP Department of Water and Power
EIR Environmental Impact Report
EIS Environmental Impact Statement

EMSC Engineering Management Services Consultant

EPBM Earth Pressure Balance Machine FAA Federal Aviation Administration FAR Federal Acquisition Regulation

FD Final Design

FEIS Final Environmental Impact Statement
FEIR Final Environmental Impact Report
FIS Financial Information System

FLSR Fire Life Safety Report

FONSI Finding of No Significant Impact FRA Federal Railroad Administration

FSEIR Final Supplemental Environmental Impact Report FSEIS Final Supplemental Environmental Impact Statement

APPENDIX

LIST OF ACRONYMS (Continued)

FTA Federal Transit Administration

FTE Full Time Equivalent

GBR Geotechnical Baseline Report

GDSR Geotechnical Design Summary Report

HMM Hatch Mott MacDonald
HRT Heavy Rail Transit
HRV Heavy Rail Vehicle
IFB Invitation for Bid

IPMO Integrated Project Management Office

JV Joint Venture LA Los Angeles

LABOE Los Angeles Bureau of Engineering
LABOS Los Angeles Bureau of Sanitation
LABSL Los Angeles Bureau of Street Lighting
LACFCD Los Angeles County Flood Control District

LACMTA Los Angeles County Metropolitan Transportation Authority

LADOT Los Angeles Department of Transportation
LADPW Los Angeles Department of Public Works
LADWP Los Angeles Department of Water and Power

LAUSD Los Angeles Unified School District

LAWA Los Angeles World Airports
LAX Los Angeles International Airport

LONP Limited Notice To Proceed LONP Letter Of No Prejudice

LOP Life-of-Project

LPA Locally Preferred Alternative
LRTP Long Range Transportation Plan

LRV Light Rail Vehicle

MCA Master Cooperative Agreement

MIS Major Investment Study

MOU Memorandum of Understanding MPSR Monthly Project Status Report

N/A Not Applicable

NEPA National Environmental Protection Act

NOD Notice of Determination

NPDES National Pollution Discharge Elimination System

NTE Not to Exceed NTP Notice To Proceed

OCC Operations Control Center

OSHA Occupational Health and Safety Administration

PA/VMS Public Address/Visual Messaging Sign

PE Preliminary Engineering

APPENDIX

LIST OF ACRONYMS (Continued)

PEER Permit Engineering Evaluation Report

PIP Project Implementation Plan PLA Project Labor Agreement

PM Project Manager

PMIP Project Management Implementation Plan PMOC Project Management Oversight Consultant

PMP Project Management Plan P&P Policies & Procedures

PR Project Report

PSR Project Study Report QA Quality Assurance

QAR Quality Assurance Report

QC Quality Control

QPSR Quarterly Project Status Report
QTIB Qualified Transit Improvement Bonds
RAMP Real Estate Acquisition Management Plan
RCHAR Rail Crossing Hazards Analysis Report
RCMP Risk Assessment Management Plan

RFC Request For Change RFP Request For Proposals

RFSC Request for Special Consideration

RHA Risk Hazard Analysis

RLPE Red Light Photo Enforcement

ROC Rail Operations Center ROD Record Of Decision

ROM Rough Order of Magnitude

ROW Right-Of-Way

RPZ Runway Protection Zone RSD Revenue Service Date SAV Stand Alone Validator

SCAQMD Southern California Air Quality Management District

SCADA Supervisory Control and Data Acquisition

SCC Standard Cost Category SCE Southern California Edison

SCG Southern California Gas Company

SCRRA Southern California Regional Rail Authority

SHA State Highway Account

SHPO State Historic Preservation Office

SIT System Integration Testing SOQ Statement of Qualification

SOV Schedule Of Value SOW Statement Of Work

APPENDIX LIST OF ACRONYMS (Continued)

SP Special Provision

SSMP Safety and Security Management Plan

STB Surface Transportation Board

STIP State Transportation Improvement Program

STP Surface Transportation Program

STV STV Group

TBD To Be Determined
TBM Tunnel Boring Machine

TCE Temporary Construction Easement TCRP Traffic Congestion Relief Program

TIFIA Transportation Infrastructure Finance and Innovation Act
TIGER Transportation Investment Generating Economic Recovery

TPSS Traction Power Substation

TRACS Transit Automatic Control System
TVA Threat Vulnerability Analysis
TVM Ticket Vending Machine
UFS Universal Fare System

USDOT United States Department Of Transportation

VE Value Engineering

WBS Work Breakdown Structure

WP Work Package
YOE Year of Expenditure