Crenshaw/LAX Transit Project



CRENSHAW/LAX TRANSIT PROJECT

QUARTERLY 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).

DECEMBER 2014

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PROJECT SUMMARY

CRENSHAW/LAX TRANSIT PROJECT

As of December 2014

LOCATION: Crenshaw DESIGN/CONSULTANT:	-		Green Line	CONSTRUCTION MANAGE				
PROJECT PHOTO: com for Aviation/Century aer		dation pile co	nstruction	WORK COMPLETED PAST MONTH:				
		o WSCC continued fin o WSCC continued co upcoming constructio o WSCC completed cu installation at Exposit o WSCC continued ful operations at Crensha o Metro continued re	ordination on next to utter soil m ion Station I street clo aw Blvd.	end of aiı nixing (CS n. osure for	port runways. M) pile decking			
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSMENT				
				MAJOR SCHEDULE	PRIOR PLAN	CURRENT PLAN		
ACTIVITIES	BUDGET	AMOUNT	EXPENDED	ACTIVITIES Environmental	VARIANCE WEEKS			
DESIGN	\$ 136.7	\$ 91.7	67.1%					
DESIGN	\$ 136.7	р 91.7	07.1%	Record of Decision	Dec-11		Complete	
RIGHT-OF-WAY	\$ 127.4	\$ 102.6	80.5%		Dec II	Dee m	oompiete	
	φ 121.4	φ 102.0	00.070	Design				
CONSTRUCTION	\$ 1,353.1	\$ 250.5	18.5%	Preliminary Engineering	Nov-11	Nov-11	Complete	
				Final Design	Sep-15	Sep-15	On Schedule	
OTHER	\$ 440.8	\$ 91.1	20.7%	Right-of-Way				
TOTAL	\$ 2,058.0	\$ 535.9	26.0%	All full-take parcels available	Aug-14	Jan-14	4.5 months behind	
Note: cost expended as o	f November 29	, 2014.						
				Construction				
AREAS OF CONCERN				D-B Notice to Proceed	Sep-13	Sep-13	Complete	
o Timely future reviews of				D-B Substantial Complete	Sep-18		1.5 months behind	
City of Inglewood, Caltran o Third party relocations p				Revenue Service Date	Oct-19	Oct-19	On schedule*	
activities o Execution of Agreement o Mitigation of design-buil schedule delay to substar	der's current fo	nonth	*Note: Current Revenue Service	Date includes	a reduction i	n contingency.		
ROW ACQUISITION	PLAN	ACQUIRED	REMAINING	CRITICAL ACTIVITIES / 3	MONTH LOO	OK AHEAD		
				o WSCC commence pile in	stallation neg	ar airport ru	nway at LIG #1	
FULL TAKES	35	35	0	o WSCC continue final desi			1. 00 #1.	
			J	o WSCC continue support o	•	work at Ev	position Station	
PARTIAL TAKES	27	6	21	o WSCC continue support o				
	- /	5	~ '	o WSCC commence support				
TEMPORARY EASEMENTS	12	2	10	o WSCC continue new Cen				
TOTAL PARCELS		43	31	o WSCC complete decking	,	U		
TOTALTAROLLO	1-1	-10	01	a a consiste dooking	oporationo a			

PROJECT OVERVIEW

Major Contract Procurement

Metro advertised the Southwestern Yard (Division 16) design-build contract on August 29, 2014. *Amendment 1 was issued on September 19, 2014, Amendment 2 on October 24, 2014, Amendment 3 on November 25, 2014, and Amendment 4 on December 18, 2014. For this two-step procurement, both Step One Technical Bid and Step Two Price Bid have been rescheduled to be due from proposers on January 22, 2015.* Proposers whose Step-One Technical Bids are determined to be acceptable by Metro will be notified that their Step-Two Price Bids will be publicly opened. Award and notice-to proceed are planned for second quarter of 2015.

Construction

Contract C0990 - The advanced utility relocations contractor, Metro Builders and Engineers Group, LTD was substantially completed on August 21, 2014. Contract is now in close-out phase.

Design- Build Contract C0988 – The design-builder, Walsh-Shea Corridor Constructors (WSCC) continues final design with preparation of required contract submittals. Key design status this month:

- Continued to hold various task force and workshop meetings to resolve design issues. These meetings were for at-grade, aerial and underground stations, structures and systems disciplines.
- Utility design meetings held to discuss utility conflicts and resolution for protect-in-place and relocation.
- Weekly coordination meetings with City of Los Angeles for support of excavation and street restoration design.
- WSCC continues final design and submit design packages for Metro and City of Los Angeles review.

Construction efforts by the design-builder continued along the three major areas or segments:

Segment A – (South end, stationing 7+50 to 130+00)

- Continued piling for Century/Aviation Bridge.
- WSCC submitted FAA's 7460 permits for upcoming construction activities along Aviation Blvd. to FAA for review and approval. Continued coordination with LAWA and FAA for upcoming construction activities near LAX runways.
- Preparation commenced for first CIDH piles at Green Line Bridge. Preparation included potholing to clear subgrade of obstructions and commenced preparation of WTCPs.

Segment B – (Stationing 130+00 to 365+00)

• Tree removals continued in Harbor Subdivision.

Segment C – (North end, Stationing 365+00 to 449+00)

Crenshaw/Exposition Station area

PROJECT OVERVIEW (Continued)

- Full closure of Crenshaw Blvd. for Phase I decking operation which was completed in November. Phase II was completed in December. Final Phase III will be completed in midJanuary 2015.
- Commenced utility support in place under decking.
- Crenshaw/MLK Station area
 - Scheduled to restart CSM pile installation on the west side of station in January 2015.
- Crenshaw/Vernon Station area
 - Scheduled to start pile installation in January 2015.

Right-of-Way

There are a total of 74 parcels; one more parcel was added in October 2013 which was originally an encroachment. There are 35 full takes, 27 partial takes and 12 temporary construction easements (TCE's). *There have been 43 parcels acquired through December 2014.* Thirty-three full takes and eight part takes/ temporary construction easements have been provided to design-builder WSCC. One full take parcel has been acquired but will not be provided to WSCC until work is ready to commence in mid-January 2015. An order of possession has been issued for the last remaining full take and should be provided to WSCC also by mid-January 2015.

<u>Systems</u>

Metro staff initiated a study to explore possible alternative layouts to accommodate the central control functions associated with new project needs, such as Crenshaw/LAX project, within the existing ROC facility as an interim measure. Metro has determined that the best interim course of action is to expand the existing functional operations at the ROC under a Phase 1 approach to support five new rail lines and extensions including the Crenshaw/LAX Project. The existing ROC will be expanded and will reconfigure the existing ROC service control and closed circuit television monitoring areas to increase overall space requirements by approximately 22 percent. A full build-out of a combined BOC/ROC is also being planned under a Phase 2 approach on land to be acquired by Metro as a separate Capital Improvement Project near Division 20.

Final design of the ROC Reconfiguration Plan was completed and issued for review on February 28, 2014. The initial ROC reconfiguration effort will be for Exposition Phase II and Foothill Gold Line Projects. Crenshaw/LAX Transit Project ROC reconfiguration will be initiated in June 2017 and completed by February 2019.

Program Management

In May 2013, the Board approved a Motion that amended the fiscal year 2014 Proposed Metro Budget to include funding for an underground station at Leimert Park Village and an at-grade station at Hindry as part of the baseline project. This Motion added \$135 million to the LOP budget which included \$80 million in uncommitted fiscal year 2014 funding and \$55 million from the City of Los Angeles. Metro reached agreement with the City of Los Angeles to cover the incremental cost of the stations above the \$80 million identified in fiscal year 2014 funding which the Metro Board approved in May 2014.

PROJECT OVERVIEW (Continued)

With board approval on June 27, 2013, the additional \$135 million is included in the sources of funds chart as well as the additional \$160.1 million for the increased cost of the base work. All recommendations were approved by the Board on June 27, 2013 except that change order authority was maintained at \$500,000. This board action amended the life of project budget to \$2,058 million.

The current budget includes the 49% cost allocation share that the Project is responsible for paying for the design and construction of the Southwestern Yard. This amount is \$139.4 million of the \$285.2 million forecast cost for the Southwestern Yard. The \$139.4 million is allocated in the various SCC categories.

The amount of funding available for the Crenshaw/LAX Transit Corridor Project, excluding the Southwestern Yard \$139.4 million allocation and Environmental/Planning budget of \$26.0 million is \$1,892.6 million.

The LOP budget is funded by various sources of funds which include local, state and federal funding. The TIFIA Loan is categorized under local funds as the loan is secured by a pledge of Measure R local sales tax funds. The funding percentages are as follows: local funding 79.8%, state funding 10.5% and federal funding 9.7%.

The project commitments thru December 2014 are \$1,666.9 million or 81% of the Current Budget. The project expenditures thru December 2014 are \$542.5 million or 26.4% of the Current Budget. The current period expenditures are for design-builders monthly design and construction costs as well as right-of-way and professional services costs. The expenditures to date also include the Southwestern Yard expenditures that are part of the 49% cost allocation share (\$139.4 million) that the Project is responsible for paying for.

The forecast of the project schedule contingency was reduced this month. Although the design-builder incorporated a recovery plan last month into their project schedule, this month, they have shown in their schedule update a projected delay of an additional 68 calendar days. Metro is reviewing the schedule update and does not concur with the design-builder's assessment of a potential slippage. However, Metro this month is showing the potential delay as a reduction in the overall schedule contingency which is now a cumulative 118 calendar days. Metro is meeting with the design-builder to discuss potential mitigation opportunities available to the design-builder to mitigate any projected schedule slippage.

On a monthly basis, the project's risk manager will advise project management of the risk register items mitigation status. *A Risk Management Quarterly Progress Report with a status as of September 2014 was issued on December 2, 2014.*

MANAGEMENT ISSUES

Concern No. 1: Complete Construction Safety Phasing Plan (CSPP) for design-builder scope of work near LAX and receive FAA approval.

<u>Status/Action</u> WSCC has submitted FAA's 7460 permits for upcoming construction activities along Aviation Blvd. to FAA for review and approval.

Concern No. 2: Execution of 3% Local Match funding agreement with the City of Inglewood.

<u>Status/Action</u> Metro and the City of Inglewood continue to work through various issues and may have solutions to outstanding issues so an agreement can be executed in the future.

Concern No. 3: Right-of-way acquisition forecast dates are trending later than planned.

<u>Status/Action</u> Metro continues to turn over parcels to the design-builder as they are acquired. *There have been 43 parcels acquired through December 2014.*

Metro staff continues to collaborate with the design-builder to update priorities for the acquisition of smaller real estate parcels which include part takes, street easements, temporary construction easements and rights of entry required for construction.

Concern No. 4: Timely future reviews of WSCC final design submittals by City of Los Angeles, City of Inglewood, Caltrans, FAA and Los Angeles World Airports.

Status/Action Metro is coordinating with all third party agencies in advance of WSCC final design submittals to ensure that timely review requirements will be met to support WSCC's current schedule submittal dates. The final design submittals will be submitted for review by third parties according to the most critical submittals to ensure the third party agencies are reviewing the most important designs first. Also, along with the concern above is the potential for third party agencies review comments leading to potential change requests outside of the original design signed off by the agencies during the preliminary engineering phase of the project. Metro will take action and strictly monitor the review comments from the agencies.

MANAGEMENT ISSUES (Continued)

Concern No. 5: Additional scope of work for the design-builder to accommodate the Los Angeles World Airports (LAWA) Specific Plan Amendment Study (SPAS).

Status/Action The scope of work is for Metro to undertake a parallel design effort and construct changes in the vicinity of the Aviation/Century Station to accommodate elements of the SPAS. The Crenshaw/LAX Transit Project obtained Metro Board authorization to Proceed in December 2013 with the required future design or construction effort. Four changes have been executed with WSCC, three for design and one for construction. Metro is also working with LAWA on additional changes that may be considered by the Metro Board of Directors in the near future. The existing and any potential new changes to WSCC are not funded by the Crenshaw/LAX Transit Project but are funded by other funding sources.

Concern No. 6: Relocations of utilities by outside third parties required to be performed in advance of the main Crenshaw/LAX Design Build Contractor's work.

Status/Action Metro continues to work closely with various third party agencies and have set up weekly meetings to address all known remaining utility relocation work. The emphasis is to have the relocations of utilities performed in advance of when WSCC will be performing work in the same location.

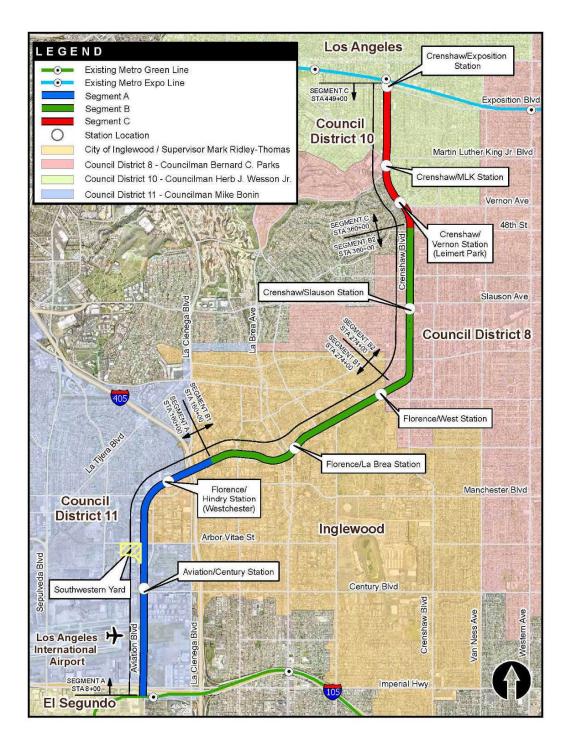
Concern No. 7: Design-builders design submittal schedule

Status/Action WSCC is still behind in meeting key interim design milestones but is working to submit submittals that could impact the critical path if not submitted on time. Metro is working closely with WSCC to timely review critical submittals so as not to impact to the project schedule critical path.

Concern No. 8: Design-builders construction schedule

<u>Status/Action</u> Although the design-builder incorporated a recovery plan last month into their project schedule, this month, they have shown in their schedule update a projected delay of an additional 68 calendar days. Metro is reviewing the schedule update and does not concur with the design-builder's assessment of a potential slippage. Metro is meeting with the design-builder to discuss potential mitigation opportunities available to the design-builder to mitigate any projected schedule slippage.

PROJECT ALIGNMENT



PROJECT SCOPE

The Crenshaw/LAX Transit Corridor is a north/south corridor that serves the cities of Los Angeles, Inglewood, Hawthorne and El Segundo as well as portions of unincorporated Los Angeles County. The alignment extends 8.5 miles, from the intersection of Crenshaw and Exposition Boulevards to a connection with the Metro Green Line at the Aviation/LAX Station. The project provides major connections with the Los Angeles International Airport (LAX) as well as links to the Metro Green Line, the Exposition Line and countywide bus network. The Board adopted a light rail system as the Locally Preferred Alternative (LPA) in December 2009.

The alignment is comprised of a double-tracked right-of-way consisting of sections of at-grade in-street, at-grade within railroad right-of-way, aerial, and below-grade guideway sections, eight stations, park and ride facilities at three locations, utilities, landscaping, roadway improvements required by the project and a maintenance & storage facility (Southwestern Yard).

The scope of work for the three construction contracts and two owner-supplied equipment contracts is shown below.

Contract C0990 Crenshaw/LAX Advanced Utility Relocations

The design of several early utility relocations was advanced sufficiently into final design to allow for bidding of critical early utility relocations. This contract includes relocating three (3) existing duct banks that feed various NAVAIDS on the south airfield complex. New ductbank infrastructure will be built by Metro with the fiber replacement work and cut-over by FAA/LAWA. These ductbanks contain fiber lines and power lines which belong to both LAWA and FAA. Since the track alignment is below grade at these crossings, the ductbanks have to be relocated in advance to allow for the construction of the track alignment. In addition, other wet utilities along the Harbor Branch and Crenshaw Boulevard segments of the corridor that can be relocated in advance are included as part of this contract.

The project delivery method for this contract was bid-build Invitation for Bid (IFB).

Design-Build Contract C0988 Crenshaw/LAX Transit Corridor

This is the largest project contract which will complete final design and construction of the infrastructure required along the corridor alignment. The structures required to be constructed are eight stations, grade separations including flyover structures, cut and cover trenching, tunneling and three park-n-ride facilities. The scope of work will include all the necessary systems work including train control, traction power supply substations and distribution, overhead catenary, communications, and systems tie-in to the existing Metro Green Line. The project delivery method for this contract was design-build utilizing a two-step best value procurement approach with submittal of qualification statements through a RFQ process, pre-qualification of qualified proposers followed by release of a RFP soliciting technical and price proposals with an option at Metro's discretion for best and final offers (BAFO).

PROJECT SCOPE (Continued)

Design-Build Contract C0991 Southwestern Yard

The Board-adopted 2009 Long Range Transportation Plan (LRTP) for Los Angeles County envisioned one new central Light Rail Transit (LRT) Maintenance facility to be used by all projects. Since the LRTP adoption, substantial progress on light rail system planning and development, including more accurate vehicle assignments, cost estimates, and functional requirements, has led Metro to conclude that two new LRT yards, an Eastern Yard and a Southwestern Yard, are necessary. This contract will construct the Southwestern Yard which will consolidate maintenance facility requirements for this project as well as the operating Metro Green Line, proposed South Bay Metro Green Line Extension and proposed Metro Green Line to LAX. The cost of constructing the Southwestern Yard will be proportionately split among the four projects.

The project delivery method for this contract is a two-step design-build IFB approach.

Owner-Supplied Equipment - Contract C0992 Crenshaw/LAX Concrete Ties and Assembly Items

Metro added a contract for procuring owner-supplied equipment for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor. The equipment within the contract scope of work includes concrete ties and assembly items.

The project delivery method for this contract was bid-build IFB approach.

Owner-Supplied Equipment - Contract C0992A Crenshaw/LAX Rail and Bumping Posts Procurement

Metro added a contract for rebidding the procurement of running rail and bumping posts for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor.

The project delivery method for this contract was bid-build IFB approach.

KEY MILESTONES SIX- MONTH LOOK AHEAD

	Milestone Date	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15
Contract C0988 Readiness For Construction Design - Seg A	12/01/2014A						- , -
Contract C0988 Complete Shoring CSM Construction - Expo	12/07/2014A						
Contract C0988 Readiness For Construction Design - Seg B	12/19/2014A						
Contract C0988 Readiness For Construction Design - COMM	12/23/2014A						
Contract C0991 Southwestern Yard Bids Due	01/22/15						
Contract C0988 Readiness For Construction Design - Seg C	01/27/15		ALC: THE REAL				
Contract C0988 Start Soldier Piling at Vernon	01/07/15		ANDER DEFEA				
Contract C0988 Start Aerial Structure #1 - Green Line	01/26/15		AND THE OWNER				
Contract C0988 Start Soldier Piling Underground Structure #1	02/04/15			ALLEN DELTA			
Contract C0988 Readiness For Construction Design - TPSS	02/12/15			MIN PRIM			
Contract C0988 Complete Shoring CSM West Side - MLK	02/13/15			and the			
Contract C0988 Start Decking - MLK	02/23/15						
Contract C0988 Start La Brea Bridge	02/23/15						
Contract C0988 Start Shoring - Underground Structure #3	02/25/15			ŵ			
Contract C0988 Submit Final Design - AG-1 Greenline UP	03/03/15				ŵ		
Contract C0988 Start Soldier Piling - U Section #4	03/24/15				ŵ		
Contract C0988 Start Manchester Bridge	03/25/15						
Contract C0988 Submit Final Design - COMM	03/31/15						
Contract C0988 Start Soldier Piling - Cut & Cover #4	04/08/15					RALES CITY	
Contract C0988 Start 111th Street Bridge	04/09/15						
Contract C0988 Submit Final Design - Seg A	04/21/15					and they	
Contract C0988 Submit Final Design - OCS	04/24/15						
Contract C0988 Start Fabricate Elevators & Escalators	04/26/15						
Contract C0988 Submit Final Design - Seg C	04/27/15					KALIN CENT	
Contract C0988 Start I-405 Bridge	05/04/15						AALER DETA
Contract C0988 Submit Final Design - Seg B	05/04/15						ALCO DATA
Contract C0988 Complete Shoring - Vernon	05/08/15						NEC BURN
Contract C0988 Submit Final Design - TPSS	05/12/15						and they
Contract C0988 Complete Soldier Piling - U Section #4	05/18/15						
Contract C0988 Start Decking - Vernon	05/31/15						

 \triangle Other Agencies

Contractors

Walsh

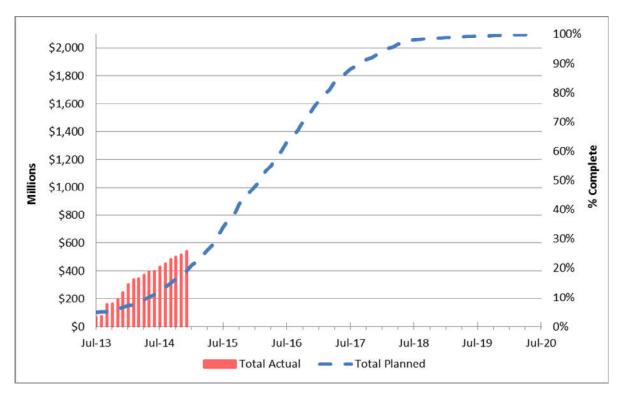
New Date *

"A" following date is actual and completed

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Crenshaw/LAX Transit Corridor - Dec 2014	03-26-09 A 10-30-19						
	11-19-09 A 10-30-19						
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Contract C0990 Advanced Utility Relocation	10-20-10 A 08-21-14 A	ļ					
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Contract C0992 Concrete Ties and Assembly Items	06-03-13 A 08-15-14 A		•	- Ja-		Ì	Ì
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Concrete Ties and Assembly Items Delivery	12-24-13 A 08-15-14 A]
Contract C0992A Running Rail & Bumping Post	10-15-13 A 09:30-15						
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Project #860003 Southwestern Yard	10-20-10 A 10-31-18						
Contract C0991 Southwestern Yard & Paint/Body Shop	10-20-10 A 10-31-18	ļ					
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	12-17-18 10-30-19						

SCHEDULE MEASUREMENTS

		Change from Last	
	Status	Period	Comment
Current Revenue Service:	10/30/2019	None	
Forecast Revenue Service:	10/30/2019	None	
TIFIA Revenue Service:	10/30/2019	None	
Final Design Progress:			
Contract C0988	81.4%	2.4%	Behind Schedule
Contract C0990	100%	None	Design Completed
Contract C0991	-	-	P.E Completed only
Contract C0992	100%	None	Design Completed
Contract C0992A	100%	None	Design Completed
Construction Contracts Progress:			
Contract C0988	9.8%	0.8%	Behind Schedule
			Substantially
Contract C0990	100%	0%	Completed
Contract C0991	0%	-	Advertised
			Substantially
Contract C0992	100%	0%	Completed
Contract C0992A	93%	0%	On Schedule
Cumulative To Date Progress:	23.8%	0.2%	



OVERALL CONSTRUCTION PROGRESS CURVE STATUS

The above progress curve is based on planned expenditures by the design-build contractor in the C0988 baseline schedule and actual program expenditures which incorporated progress projected by the design-build contractor in their December 2014 schedule update.

The cumulative overall final design and construction progress is 23.8%.

Contract C0990 was Substantially Completed on Aug 21, 2014, which is 297 calendar days behind Contract Milestone #1.

Final Design for C0988 commenced upon MTA issuing NTP on September 10, 2013. Cumulative final design progress to date is 81.4%, while the construction progress is 9.8% to date. See Contract C0988 Status sheet for more information.

MAJOR EQUIPMENT DELIVERY STATUS

Tunnel Boring Machine

WSCC, the design-builder for Contract C0988, will procure the tunnel boring machine (TBM) and equipment.

Following are the major milestone dates for TBM procurement:

	Baseline	Nov-14	Dec-14	Monthly Variance
Submit Final Design Details for TBM	01/03/14	12/29/14	01/30/15	-32
Fabricate & Deliver TBM	09/22/14	11/21/14A	11/21/14A	0
Procure & Deliver TBM Rolling Stock & Accessories	06/23/14	05/01/15	05/01/15	0
TBM SB Tunnel Launch at Expo	04/28/15	09/17/15	11/17/15	-61
TBM SB Break through at Vernon	09/17/15	02/10/16	04/01/16	-51
TBM NB Tunnel Launch at Expo	10/29/15	03/23/16	05/20/16	-58
TBM NB Break through at Vernon	03/21/16	08/11/16	10/04/16	-54

Light Rail Vehicles

The Board approved exercising Option 1 of Contract P3010 with Kinkisharyo International to provide light rail vehicles (LRV) for the Crenshaw/LAX project. By exercising this option prior to August 20, 2013, the Project avoided price escalation costs. The total number of vehicles in the option is 28 which include 20 LRVs for the Crenshaw/LAX project and two additional cars for spares.

The first six pilot cars for the initial order of cars (non-option) are planned to be delivered on July 2015; then four cars will be delivered every month starting from Aug 2015 with the last group of cars to be delivered on Jan 2017.

Mobilization of Option 1 will commence after completion of the initial order. First delivery of Option 1 cars will be February 2017 and the last of the cars in September 2017.

Ticket Vending Machines

Procurement of the ticket vending machines will commence after the design-builder completes final design and the total requirements for the project are known.

Concrete Ties and Assembly Items

All required concrete ties have been delivered to the job site.

Running Rail & Bumping Post

The delivery of the equipment is as follows:

- SDI 115RE SS Rail Delivery 7/16/2014 (Completed)
- Evraz 115RE HH Rail Delivery 8/11/2014 (Completed)
- Bumping Post Delivery 9/30/2015

DESIGN-BUILDER'S (C0988) LONG	LEAD ITEN	I LIST
Item	Delivery	Needed by
Traffic Signal Poles	6/6/2015	7/27/2015
Street Light Poles	6/6/2015	7/27/2015
Tunnel Ventilation Fans	1/15/2016	6/1/2017
Jet Fans (Cut & Cover)	8/20/2016	2/2/2017
Structural Steel - Canopies	11/13/2015	6/27/201
Laminated Tempered Canopy	7/23/2015	7/21/2016
Station - Elevators	4/26/2016	5/3/2017
Station - Escalators	4/26/2016	6/29/2016
Track - Special Trackwork	6/3/2016	6/6/2016
Unit Substations - Expo	11/10/2015	1/23/2018
Unit Substations - MLK	11/10/2015	7/19/2017
Unit Substations - Vernon	11/10/2015	6/27/2017
TPSS - Substation 1	1/12/2016	3/15/2016
TPSS - Substation 2	3/22/2015	3/23/2017
TPSS - Substation 3	6/1/2016	6/2/2016
TPSS - Substation 5	8/11/2016	8/12/2016
TPSS - Substation 6	10/21/2016	11/14/2016
TPSS - Substation 8	1/4/2017	3/13/2017
TPSS - Substation 9	3/15/2017	8/31/2017
TPSS - Substation 10	5/24/2017	10/12/2017
OCS Poles	11/25/2015	9/8/2016
Communication Equipment for TC&C #1 / Aviation Yard	9/18/2015	4/12/2016
Communication Equipment for TC&C #2 / Aviation/Century	1/20/2016	7/5/2016
Communication Equipment for TC&C #4 / Hindry	1/27/2016	12/29/2016
Communication Equipment for TC&C #5 / Florence/West	4/13/2016	6/5/2017
Communication Equipment for TC&C #6 / Crenshaw/Slauson	7/8/2016	9/27/2017
Communication Equipment for TC&C #7 / Crenshaw/MLK	11/29/2016	11/6/2017
Communication Equipment for TC&C #8 / Crenshaw/Expo	1/26/2017	9/27/2017
Communication Equipment for COM #1 / UG-1	10/16/2015	9/19/2016
Communication Equipment for COM #2 / UG-2	12/29/2015	9/27/2016
Communication Equipment for COM #2 / Florence/La Brea	2/23/2016	9/27/2016
Communication Equipment for COM #3 / UG-3	3/23/2016	3/30/2017
Communication Equipment for COM #4 / UG-4	6/16/2016	3/26/2018
Communication Equipment for COM #4 / Vernon	10/3/2016	10/24/2017

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CRITICAL PATH NARRATIVE

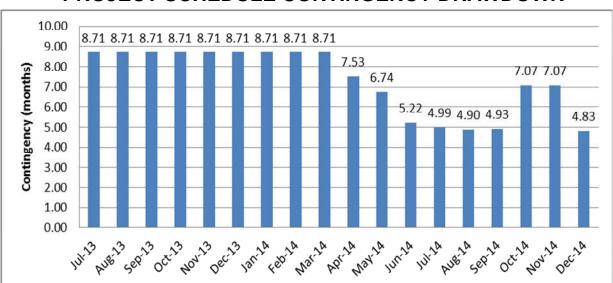
Critical Path:

The longest path to project substantial completion begins with final design of the Design/Build Contract #C0988 Crenshaw/LAX Transit Corridor.

The most critical and longest path starts with the Vernon Station support of excavation (SOE). The path continues with Vernon Station decking & excavation, and underground structure #4 cut & cover and U Section construction; while the Expo & MLK station SOE, decking, excavation & invert construction; TBM mining in south bound tunnel; cross passage excavation, tunnel invert and walkway construction; track and system installation, underground structure #3 shoring follow closely as the secondary critical path.

Critical work concludes with phase I systems integration testing by the C0988 contractor, phase 2 systems integration testing by MTA and then pre-revenue operations.

The current critical path indicates Milestone 1 - Contract Substantial Completion date is Jan 4, 2019, which is 118 calendar days behind. Of the 118 days, LADWP waterline delay is total 35 days that is concurrent with WSCC CSM submittal delays.



PROJECT SCHEDULE CONTINGENCY DRAWDOWN

PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown is based on the revenue service date of October 30, 2019. The change of LOP Contingency is due to design-builder reforecast of their substantial completion milestone.

PROJECT COST STATUS

SCC	DECODIDITION	ORIGINAL	CURREN	T BUDGET	COMMI	TMENTS	EXPEN	DITURES	CURRENT	FORECAST	FORECAST
CODE	DESCRIPTION	BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAYS	471,335,000	-	452,500,001	(29,544)	442,897,538	-	33,886,431	-	452,500,001	-
20	STATIONS	153,906,000	-	316,050,000	-	300,744,412	-	37,918,000	-	315,050,000	(1,000,000
30	SOUTHWESTERN YARD	66,673,000	-	66,673,000	6,399,923	6,549,923	-	-	-	66,673,000	-
40	SITEWORK\SPECIAL CONDITIONS	235,576,000	-	348,565,999	1,784,406	342,859,084	1,170,684	179,590,988	-	354,970,999	6,405,000
50	SYSTEMS	125,132,000	-	169,311,000	-	150,228,242	-	171,055	-	169,436,000	125,000
10-50	CONSTRUCTION	1,052,622,000	-	1,353,100,000	8,154,786	1,243,279,200	1,170,684	251,566,474	-	1,358,630,000	5,530,000
60	RIGHT-OF-WAY	132,294,000	-	127,400,000	(2,118)	113,793,321	2,479,629	105,073,785	-	127,400,000	-
70	LRT VEHICLES	87,780,000	-	82,100,000	-	82,050,901	1,000	11,453,422	-	82,100,000	-
80	PROFESSIONAL SERVICES	273,147,000	-	295,900,000	4,146,287	202,301,746	2,962,700	148,826,361	-	299,025,000	3,125,000
90	UNALLOCATED CONTINGENCY	177,157,000	-	173,500,000	-	-	-	-	-	164,845,000	(8,655,000
	865512 & 860003 - SUBTOTAL	1,723,000,000	-	2,032,000,000	12,298,955	1,641,425,168	6,614,014	516,920,043	-	2,032,000,000	-
	ENVIRONMENTAL/PLANNING-405512	5,526,150	-	5,526,150	-	5,526,150	-	5,526,150	-	5,526,150	-
	ENVIRONMENTAL/PLANNING-465512	20,473,850	-	20,473,850	-	20,023,237	-	20,023,237	-	20,473,850	-
	405512 & 465512 - SUBTOTAL	26,000,000	-	26,000,000	•	25,549,387	-	25,549,387	-	26,000,000	-

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH 03-JANUARY-2014

SCC-30 budget of \$66,673,000 for the Southwestern Yard includes fundings for SCC-30, SCC-40, SCC-50, and SCC-80 Final Design scope of work.

PROJECT COST ANALYSIS

The project numbers 405512, 465512, 865512, and 860003 are internal to Metro and are used to differentiate between environmental/planning and construction components of the project.

Original Budget:

The Board in October 2011 established the Life-of-Project (LOP) budget of \$1,749 million for the Crenshaw/LAX Transit Project.

Current Budget:

There have been two increases in the LOP to date:

- The Board in December 2012 approved an increase of \$13.9 million for a new LOP total of \$1,762.9 million. The Unallocated Contingency Standard Cost Category (SCC) 90 budget line item was increased by the \$13.9 million for a new total of \$191.1 million.
- The Board in June 2013 approved an increase of \$295.1 million for a new LOP total of \$2,058.0 million. The total increase was based on two actions:
 - o Increase LOP base project scope in the amount of \$160.1 million, and
 - Increase LOP to include the options for Crenshaw/Vernon Station (Leimert Park Village) and Florence/Hindry Station in the amount of \$135.0 million.

The current budget includes the 49% cost allocation share that the project is responsible for paying which includes funding of the design and construction for the Southwestern Yard. This amount is \$139.4 million of the \$285.2 million total project forecast cost for the Southwestern Yard. The \$139.4 million is spread among the SCC categories 30, 40, 60, 80 and 90 in the Cost Report by Element table above.

PROJECT COST ANALYSIS (Continued)

The amount of funding available for the Crenshaw/LAX Transit Project, excluding the Southwestern Yard \$139.4 million allocation and Environmental/Planning budget of \$26.0 million, is \$1,892.6 million.

Current Forecast:

The total project current forecast is \$2,058 million. There is no current forecast variance with the current budget.

Commitments:

The commitments are cumulative through January 3, 2015. The total commitments increased by \$12.3 million this period primarily due to the following:

- SCC-30 (Southwestern Yard) has increased by \$6.4 million for executed third party scope of work with Los Angeles Department of Water and Power and HHS Construction, Inc.
- SCC-40 (Sitework and Special Conditions) has increased by \$1.8 million for executed modifications associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor and the Advance Utility Relocation contract C0990 with Metro Builders and Engineers LTD. and third party scope of work with The Gas Company and Los Angeles Department of Water & Power.
- SCC-80 (Professional Services) has increased by \$4.1 million for legal services, community relations, and environmental consultant services. The total commitment of \$202.3 million includes \$5.9 million for the Southwestern Yard.

The \$1,666.9 million in commitments to date represents 81.0% of the current budget.

Expenditures:

The expenditures are cumulative through January 3, 2015. The total expenditures increased by \$6.6 million this period due to the following:

- SCC-40 (Sitework and Special Conditions) has increased by \$1.2 million for costs associated with the Advanced Utility Relocations Contract C0990, third party scope of work with Los Angeles Department of Water & Power and Metro Art Program.
- SCC-60 (Right-of-Way) has increased by \$2.5 million for real estate acquisition, environmental, and relocation. The total expenditure of \$105.0 million includes \$53.3 million for the Southwestern Yard which has been capped at this funding level.
- SCC-80 (Professional Services) has increased by \$2.9 million for costs associated with Engineering and Design Contract E0117, Metro project administration, IPMO field office lease and utilities, construction management support, legal services, permit fees with Caltrans District-07, third party scope of work with Los Angeles City Engineering Department, project management support, printing services, community relations, labor compliance monitoring and environmental consultant services. The total expenditure of \$148.8 million includes \$1.9 million for the Southwestern Yard.

The \$542.5 million in expenditures to date represents 26.4% of the current budget.

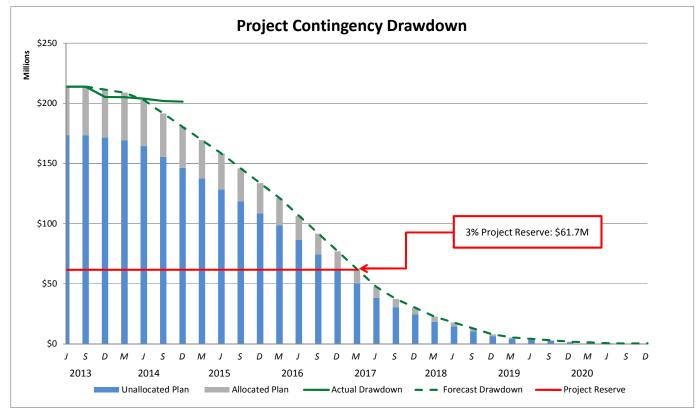
PROJECT COST ANALYSIS (Continued)

Non-Crenshaw/LAX Transit Project Funded Scope of Work

The costs shown in the table below are not part of Crenshaw/LAX Transit Project costs but are funded by other Metro projects using the services of the design-builder (Contract C0988).

C0988 NON-CRENSHAW/LAX TR	ANSIT PROJE	CT FUNDE	D SCOPE OF	WORK						
DESCRIPTION	ORIGINAL	CURREN	T BUDGET	COMMI	TMENTS	EXPEN	DITURES	CURRENT	FORECAST	FORECAST
DESCRIPTION	BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
210090 FARE GATE PROJECT	2,310,000	-	2,549,000	-	2,482,746	-	227,050	-	2,549,000	239,000
460303 AIRPORT METRO CONNECTOR	366,400	-	366,400	-	366,400	-	366,400	-	366,400	-
500013 C/LAX LAWA SCOPE OF WORK	1,575,362	-	1,575,362	-	168,278	-	168,278	-	1,575,362	-
TOTAL	4,251,762	-	4,490,762	-	3,017,424	-	761,728	-	4,490,762	239,000

PROJECT CONTINGENCY DRAWDOWN



Through 03-Jan-2015

PROJECT CONTINGENCY DRAWDOWN ANALYSIS

The project current budget of \$2,058,000,000 includes an "unallocated contingency" amount of \$173,500,000 which is included as a separate Standard Cost Category (SCC) element. Also included within the current budget is an "allocated contingency" of \$40,366,792 which is allocated, where applicable, to specific contracts within each SCC element. The allocated contingency is not broken out separately in the current budget, as this amount covers anticipated but unknown contract modifications issued by Metro. The total project cost contingency is \$213,866,792 or 10.4%.

Included in the project contingency drawdown is a 3% project reserve line. The Board is to be notified when it becomes necessary to drawdown contingency below the project reserve line to cover project costs. This was adopted by the Metro Board of Directors in September 2012.

The project contingency drawdown curve is based on an October 2019 revenue service date.

PROJECT CONTINGENCY DRAWDOWN ANALYSIS (Continued)

There was \$499,152 drawdown of allocated contingency this quarter for additional costs associated with executed modifications with the design-build Contract C0988 Crenshaw/LAX Transit Corridor and the Advanced Utility Relocations Contract C0990.

The cumulative drawdown of contingency through December 2014 is \$12,449,039 or 5.9% of the original contingency and is shown in the table below:

PROJECT CONTINGENCY DRAWDOWN (through 03-Jan-2015)								
Original	Drawdown	Drawdown	Drawdown	Remaining				
Contingency	previous quarter	this quarter	To-Date	Contingency				
173,500,000	(8,655,000)	-	(8,655,000)	164,845,000				
40,366,792	(3,294,887)	(499,152)	(3,794,039)	36,572,753				
	Original Contingency 173,500,000	Original Drawdown Contingency previous quarter 173,500,000 (8,655,000)	OriginalDrawdownDrawdownContingencyprevious quarterthis quarter173,500,000(8,655,000)-	OriginalDrawdownDrawdownDrawdownContingencyprevious quarterthis quarterTo-Date173,500,000(8,655,000)-(8,655,000)				

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

- DBE Goal Design 20.40%
- Current DBE Commitment \$19,771,849 (21.84%)
- Current DBE Participation \$10,949,848 (17.29%)
- Twenty (20) Design subcontractors have been identified to-date
- DBE Goal Construction 20%
- Current DBE Commitment \$94,459,078 (8.05%)
- Current DBE Participation \$21,229,311 (10.33%)
- Forty Seven (47) Construction subcontractors have been identified to-date.

PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reporting Data as of November 15, 2014)

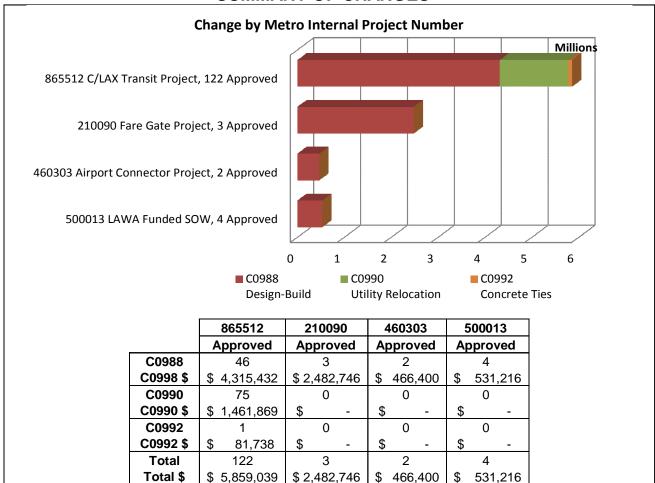
Targeted Worker Goal –	40.00%
Targeted Worker Current Participation -	58.41%
Apprentice Worker Goal -	20.00%
Apprentice Worker Current Participation -	13.67%
Disadvantaged Worker Goal -	10.00%
Disadvantaged Worker Current Participation	10.09%

Changes by Cost Level Millions C0988 D-B, 55 Approved C0990 AUR, 75 Approved C0992 Concrete Ties, 1 Approved \$2 \$4 \$6 \$8 (\$2) \$0 ■ Under \$100K ■ \$100K to \$250K ■ \$250K to \$1M Over \$1M C0988 C0990 C0992 55 Approved 75 Approved 1 Approved Under \$100K 798,375 \$ (70,179) \$ 81,738 \$ \$100k to \$250K 2,133,314 \$ 1,280,184 \$ \$ \$250K to \$1M 2,554,105 \$ \$ 251,864 \$ Over \$1M \$ 2,310,000 \$ \$ Total \$ 7,795,794 \$ 1,461,869 \$ 81,738 % of Contract 0.61% 18.68% 3.78% Percent of Contract equals the total Change value divided by the Contract Award amount Fifty-five (55) changes with a total value of 7.80 million have been approved since execution of Contract C0988.

SUMMARY OF CHANGES

Seventy-five (75) changes with a total value of 1.46 million have been approved since execution of Contract C0990.

One change with a value of \$81,738 has also been approved since execution of Contract C0992.



SUMMARY OF CHANGES

One hundred and twenty two (122) changes with a total value of \$5.86 million have been approved for Project 865512 Crenshaw/LAX Transit Project.

Three (3) changes with a value of 2.48 million have been approved for Project 210090 Fare Gate Project.

Two (2) changes with a value of 0.47 million has been approved for Project 460303 Airport Connector Project.

Four (4) changes with a total value of 0.53 million have been approved for Project 500013 Crenshaw/LAX LAWA Statement of Work.

FINANCIAL/GRANT STATUS

	(A) ORIGINAL	(B) TOTAL	(C) TOTAL	(D) (D'B) COMMITMENTS		(E) (E/B) EXPENDITURES		(F) (F/B) BILLED to FUNDING	
SOURCE	BUDGET	FUNDS ANTICIPATED	FUNDS AVAILABLE	\$	%	\$	%	\$	SOURCE %
FEDERAL-OMAQ	68.2	54.0	30.0	54.0	100%	0.0	0%	0.0	0%
FEDERAL - SECTION 5309 BUS CAPT	8.6	8.6	8.6	8.6	100%	7.8	92%	7.8	92%
FEDERAL-REGIONAL STP	20.0	120.9	73.7	73.7	61%	55.7	46%	55.7	46%
FEDERAL - ALTERNATIVE ANALYSIS	1.2	1.2	1.2	1.2	100%	1.2	100%	1.2	100%
FEDERAL-TIGER	0.0	13.9	13.9	13.9	100%	13.9	100%	13.9	100%
FEDERAL REGIONAL IMPROV PROG	34.3	34.4	0.0	34.4	100%	0.0	0%	0.0	0%
STATE REGIONAL IMPROVEMENT PROG	2.2	22	2.2	22	100%	2.2	100%	2.2	100%
STATE PPM	0.178	0.178	0.178	0.178	100%	0.178	100%	0.178	100%
STATE PROP 1B PTMSEA	201.2	128.6	122.5	128.6	100%	122.5	95%	122.5	95%
STATE PROP 1 B LOCAL PARTNER PROG	0.0	49.5	49.5	49.5	100%	49.5	100%	49.5	100%
MEASURE R - TIFIA LOAN	545.9	545.9	545.9	545.9	100%	0.0	0%	0.0	0%
MEASURE R	661.1	661.1	377.5	661.1	100%	281.1	43%	266.0	40%
OTHER FUNDS*	52.4	187.5	0.0	0.0	0%	0.0	0%	0.0	0%
PROPC25% HIGHWAY	148.9	189.5	3.5	43.3	23%	3.5	2%	3.5	2%
PROPC40% DISCRETIONARY	0.0	10.2	0.0	0.0	0%	0.0	0%	0.0	0%
PROPA35% RAIL CAPITAL	4.8	50.4	4.9	50.4	0%	4.9	0%	4.9	10%
TOTAL	1,749.0	2,058.0	1,233.5	1,667.0	81.0%	542.5	26.4%	527.4	25.6%

NOTE: Expenditures are cumulative through December 2014.

Original Budget based on Board approved October 2011 Funding/Expenditure Plan

Total Funds Anticipated based on Board approved June 2013 Revised Funding

* Other funds include: Local Agency Funds (\$107.470), ONG Tax Credit (\$54.000) and 3rd Party Lease Contingency (\$26.000)

STATUS OF FUNDS ANTICIPATED

FEDERAL – CMAQ: Metro submitted to FTA in October 2013 a draft grant application of \$30M for review. FTA has reviewed the application and allowed Metro to formally submit the grant application in July 2014. *Grant was approved in December 2014. Funds are available for drawdown.*

FEDERAL – RSTP: FTA approved a grant of \$45M in May 2014 to fund the project rail cars. Funds are available for drawdown. Metro submitted to FTA in October 2013 a draft grant application of \$28.2M for review. FTA has reviewed the application and allowed Metro to formally submit the grant application in July 2014. *Grant was approved in December 2014. Funds are available for drawdown.*

STATE PROP 1B – PTMISEA: An allocation request for \$12M was approved in May 2012 and funds are available for drawdown. In March 2013, allocation requests of \$11.4M and \$98.9M were submitted to Caltrans. The \$11.4M allocation request was approved in June 2013. Funds are available for drawdown. The \$98.9M allocation request was approved on February 6, 2014. Funds are available for drawdown. A new allocation request of \$6.170M was submitted in June 2014 to Caltrans for approval. *The allocation request is expected to be awarded no later than February 2015.*

STATE PROP 1B LP: An allocation request of \$49.5M was submitted in April 2013 and approved in July 2013. The allocation request was executed by Caltrans in December 2013. Funds are available for drawdown.

MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act): Application for a loan of \$545.9 M was submitted to the US Department of Transportation (DOT) in November 2011. Loan agreement was executed on September 12, 2012. The first disbursement of \$337.4M is planned for June 1, 2015.

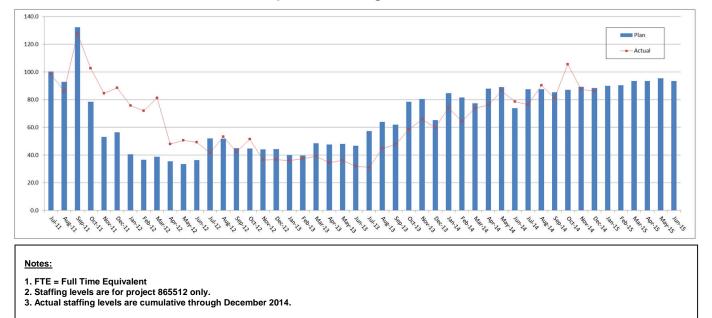
MEASURE R: \$377.4M has been allocated to the project through FY2015. Funds are available for drawdown.

PROP C 25% HIGHWAY: \$3.8M has been allocated to the project based on the June 2014 TIFIA Financial Model Funding Plan. Funds are available for drawdown.

PROP A 35% RAIL CAPITAL: \$4.8M has been allocated to the project based on the June 2014 TIFIA Financial Model.

STAFFING STATUS

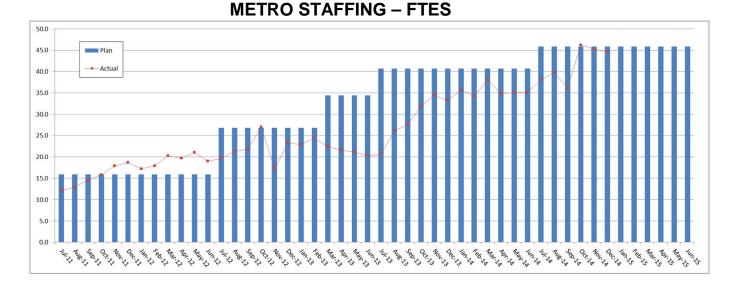
Total Project Staffing – FTES



TOTAL PROJECT STAFFING

For December 2014, there were a total of 44.5 FTE's for MTA's Project Administration staff and 41.6 FTE's for consulting staff. The total project staffing was 88.4 FTE's for November 2014. The overall FY15 Total Project Staffing plan averages 90.1 FTE's per month.

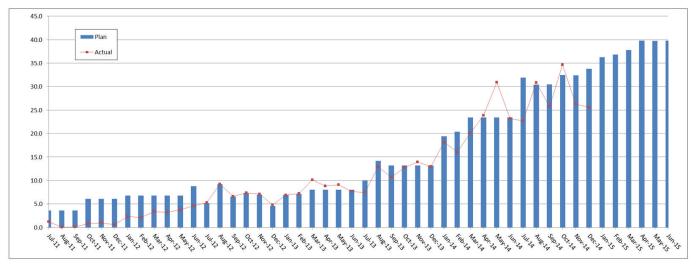
STAFFING STATUS (Continued)



Notes:

- 1. FTE = Full Time Equivalent
- 2. Staffing levels are for project 865512 only.
- 3. Actual staffing levels are cumulative through December 2014.

CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT – FTES

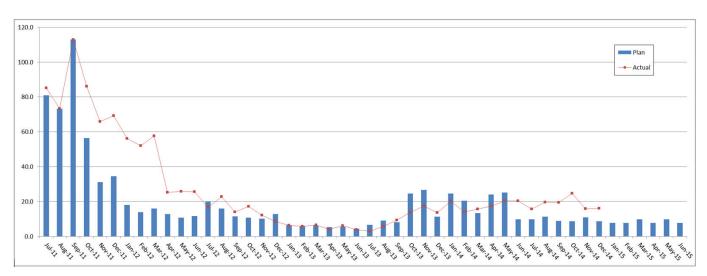


Notes:

1. FTE = Full Time Equivalent

2. Staffing levels are for project 865512 only.

3. Actual staffing levels are cumulative through December 2014.



STAFFING STATUS (Continued) ENGINEERING SERVICES CONSULTANT – FTES

Notes:

- 1. FTE = Full Time Equivalent
- 2. Staffing levels are for project 865512 only.
- 3. Actual staffing levels are cumulative through December 2014.

REAL ESTATE STATUS

	Number of			Appraisals In Process/	Offers	Agreements	Condemnation	Relocations	Parcels
Type of Take	Parcels	Certified	Decertified	Completed	Made	Signed	Filed	Complete	Available
C0989 C/LAX Transit Corridor (D-B):									
Crensha	w								
Full Takes	12	12		12	12	7	5	11	11
Part Takes	10	9	1	9	9	1	6		2
TCE	10	10		10	10		8		
Subtotal Parcels	32	31	1	31	31	8	19	11	13
Relocations	15							2	
C0988 Harbor Su	bdivision								
Full Takes	14	14		14	14	8	7	12	14
Part Takes	19	18	1	18	18	7	9		6
TCE	3	2	1	2	2		2		
Subtotal Parcels	36	34	2	34	34	15	18	12	20
Relocations	34							5	
Total HS/CR Parcels	68	65	3	65	65	23	37	23	33
C0991Southwestern	Yard (D-I	B):							
Full Takes	8	8		8	8	3	4	7	8
Part Takes	0								
TCE	0								
Sub Total Parcels:	8	8	0	8	8	3	4	7	8
Relocations	4							0	
C0990 C/LAX Advance Utility Relocations:		J							
Total Parcels:	0								
Total Project Parcels	76	73	3	73	73	26	41	30	41

Status Report updated 1/12/15

73 Appraisals in various stages of completion

36 Environmental investigations underway

73 Offers Made; 26 Agreements signed

41 Parcels acquired

41 Owner & Tenant Relocations in various stages

Update to the March 2012 RAMP was submitted in late October - No further comments received.

- **74** acquisitions: ***73** planned for in the environmental report **+1** full take for the Harbor Subdivision that was not certified (HS-2706).
- 74 appraisals completed (including HS-2706).
- 74 offers made to property owners.
- 43 parcels acquired: 33 full take and 8 part takes/Temporary Construction Easement (TCE) provided to WSCC; 1 Crenshaw full take (HS-2701) has been acquired but WSCC will not take possession until work is ready to begin 1/15/15; 1 Order of Possession has been issued for full take Crenshaw parcel CR-3304. Owner/operator is ordered to vacate by 1/15/15.

QUALITY ASSURANCE STATUS

C0988 Crenshaw/LAX Transit Corridor Design-Build Contract

- Attended weekly Quality Staff Meetings with City of Los Angeles, Los Angeles Bureau of Contract Administration, HNTB, and WSCC Lead Quality personnel.
- Attended bi-weekly Management-Level Meetings with representative from the City of Los Angeles, Metro Engineering and Construction Management.
- Participated in Construction Work Plan (CWP) Reviews, Readiness Reviews and Construction Specification Reviews.
- Scheduled Testing Oversight verifications by an Independent Testing Laboratory (Ninyo and Moore) for various field activities including concrete cylinder testing, welder qualification reviews, soil compaction testing and nondestructive testing of deck beam welds.
- Arranged for an on-site independent inspector to review activities at Mid-State (Corcoran, CA) for the supply of pre-cast concrete deck panels.
- Issued the Metro Audit Report of WSCC Design and Construction activities. Audit closeout is planned for early January 2015.
- WSCC Nonconformance Reports (NCR's) and City of Los Angeles Notice of Noncompliance (NNC's) Reports were closed out during the month.
- Approved a WSCC Lead Inspector for Segment B activities.

ENVIRONMENTAL STATUS

C0988 Crenshaw/LAX Transit Corridor Design Build

- Reviewed and commented on the following Contractor Submittals:
 - o Weekly Noise Monitoring Data for Expo Station, MLK Station and Vernon Station
 - Noise Control Plan for Cast-In-Drilled- Hole (CIDH)
 - o Noise Control Plan for Site Works
 - Noise Control Plan for Concrete Recycling
 - o Noise Control Plan for Support of Excavation Wall for Vibrancy Piles
 - Weekly Noise Monitoring Data for Century Bridge
 - Green Construction Plan Monthly Reports
 - Sustainability Plan Monthly Reports
 - Weekly Storm Water Pollution Prevent Plan (SWPPP) inspection reports
 - Weekly Fugitive Dust Inspection Reports
 - Weekly Noise Monitoring Reports, and
 - Various Construction Work Plans
- Completed hazardous waste abatement for parcel SW-0103.
- Continued remediation of contaminated ballast and underlying soil on former BNSF railroad along Metro ROW.
- Coordinated the permitting and removal of Underground Storage Tanks (USTs) with the City and County of Los Angeles.
- Coordinated with property owner's environmental consultant for parcel SW-0104 for installation of additional groundwater monitoring well.
- Coordinated Archaeological, Paleontological and Native American Monitoring. State Historic Preservation Officer (SHPO) has approved the Cultural Resources Monitoring and Mitigation Plan (CRMMP) and Paleontological Monitoring and Mitigation Plan (PMMP).
- Began the relocation of nine Phase I trees in the City of Los Angeles along Crenshaw Blvd.
- Coordinated tree removal permit applications for the City of Los Angeles for Phase II on Crenshaw Blvd.
- Began removal for Phase III Harbor Subdivision city owned trees.
- Evaluated local reuse/recycling opportunities for the tree trunks in Leimert Park.
- Attended Contractor Weekly Progress meetings, Environmental Task-Force Meetings and various over-the-shoulder submittal meetings with Contractor.
- Attended CLC Meetings, Neighborhood Council Meetings and Construction Update Meeting to discuss tree removal and other environmental concerns.

CONSTRUCTION RELATIONS STATUS

- Coordinated the Transit Oriented Development "Parking Community Meeting" Meeting.
- Provided Daily Project Updates 2,965 via e-blast.
- Coordinated meeting with tenants of Florence/Manchester.
- Project Manager interviewed with Telemundo NBC at Safety POD.
- Coordinated Parking Meeting Debrief Conference Call.
- Participated in the Conference Call Briefing with Park Mesa Heights Neighborhood Council.
- CR and Project Management presented at Crenshaw High School.
- Submitted Leimert Park Beat e-newsletter posting.
- Eat, Shop, Play in CD-8 ad in Bernard Park's newsletter.
- Eat, Shop, Play in CD-10 ad in Wesson's newsletter.
- Press release sent out on Phase 3 Crenshaw Blvd extended closure.
- Provided construction notices to 7500 stakeholders on phase 3 extended closure.
- Attended and supported CD-8 Annual Tree Lighting Event.
- Participated in CD-11, Councilman Bonin's How To Do Business With Metro Workshop.
- Neighborhood Task Force Meeting.
- Participated in CicLAvia South LA.
- Participated in the African American Credit Advancement Event.
- Attended the opening of the Mexicano New Baldwin Hills Business Inauguration.
- Attended the MRT Small Business Meeting.
- Phase 3 extended closure meeting with West Angeles Church.
- Attended the Baldwin Hills Crenshaw Plaza Meeting.
- Coordinating Radio spots which will run on KJLH and 94.7 The Wave from late December to January 19, 2015.

SYSTEMWIDE DESIGN AND ART PROGRAM STATUS

- Responded to RFIs and submittal drawings.
- Continued to refine project artwork opportunities.
- Continued to facilitate stage one artist selection panel process.
- Further development of strategy for construction fence artwork and other mitigation efforts.
- Participated in Systemwide Design integration reviews.
- Provided Systemwide At-Grade Center Platform and Aerial Station Signage Directive Drawings.

SAFETY & SECURITY STATUS

- Participated in weekly progress meetings with WSCC's Management and Construction Management Team to discuss safety/security related issues and construction schedules.
- Monitored construction activities on a daily basis including nights and weekends to ensure compliance with contract specifications.
- Implemented bi-weekly project site audit reviews with WSCC's Safety/Security personnel to enhance overall safety/security.
- Reviewed contractor safety submittals and construction work plans to ensure compliance with contract specifications.
- Issued non-compliance letter to WSCC regarding lack of site security personnel.
- Conducted All-Hands Monthly Safety/Security Meeting with WCC's Construction Safety personnel.
- Conducted AED/CPR training for Metro personnel in the Crenshaw/LAX IPO Office.
- Provided "Under the decking" refresher training for Walsh/Shea and Metro personnel performing work assignments, including inspections and observation, under the existing decking operation.
- Walsh/Shea reported 69,379 work hours and zero recordable incidents for the month of December 2014. Total Project-to-Date work hours are 873,969 and five recordable incidents. The Project Incident Rate is 1.1. The Bureau of Labor Statistics (BLS) average recordable rate per 200,000 work-hours is 3.8.

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 Inglewood	Master Cooperative Agreement	3/15	N/A	Executed Letter of Agreement April 2012. Metro working on outstanding issues.
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	N/A	N/A	Metro and LADWP will work under 2002 Utility Cooperative Agreement which remains in effect.
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	5/11 to 5 / 13	N/A	Metro is working with affected third party utilities under work orders unless license agreements dictate relocation by utility company. No additional agreements required.

ADVANCED UTILITY RELOCATION STATUS

- Advance relocation of DWP-Power conduits, manholes and conduits completed at MLK and Expo Station sites. Installation of the cable started in August 2013. Work at Crenshaw/Expo Station is complete. Work at Crenshaw/MLK Station has been completed.
- Design completed by DWP-Water for advance relocation of water lines along Crenshaw Boulevard. Start of construction was rescheduled due to impact of Buy America requirements. Relocations of water lines status:
 - o Crenshaw/MLK 24" relocation was completed in September 2014.
 - Crenshaw @ 60th St. relocation in progress, to complete by April 2015.
 - Crenshaw @ 63rd St. relocation in progress, to complete by end of April 2015.
 - Crenshaw @ 63rd St. relocation in progress, to complete by May 2015.
 - o Crenshaw/Vernon Ave. complete by May 2015.
 - Crenshaw @ Hyde Park St. relocation to start January 2015 and complete by June 2015.
- Design is complete by SCE for advance relocation of fiber crossings and pole supports along the Harbor Subdivision. Construction completed in July 2014.
- Design is complete by SCE for the advance relocation of power crossings and pole supports on Redondo Blvd. at High St. Construction completed in July 2014.
- SCE Power (10) new services and relocations scheduled for completion from 2014 thru 2017. The near term work would include:
 - Design is complete by SCE for advance relocation of fiber crossings and pole supports along the Harbor Subdivision. Construction completed in July 2014.
 - Design is complete by SCE for the advance relocation of power crossings and pole supports on Redondo Blvd. at High St. Construction completed in July 2014.
 - Relocation of underground power line to accommodate new pedestrian undercrossing at Faithful Central Bible Church property.
- Tesoro Oil design in progress for 8" gas line. Construction should commence in June 2015 and complete in September 2015.

Crenshaw/LAX Transit Project Peak Hour & Nighttime Construction Variances for the City of LA

- Metro has permit variances for nighttime and early morning construction for Segments A thru E.
- All permits have to be renewed every six months from date of issuance by the Los Angeles Police Commission.



CPUC CROSSING SUMMARY

• The CPUC has approved all packages.

Application	Location	Туре	City
A1211018	Eucalytpus Avenue	Grade Crossing	Inglewood
A1211018	Centinela Avenue	Grade Crossing	Inglewood
A1211018	Pedestrian Crossing	Grade Separated (Underpass)	Inglewood
A1212030	Oak Street	Grade Crossing	Inglewood
A1212030	Cedar Avenue	Grade Crossing	Inglewood
A1212030	Ivy Avenue	Grade Crossing	Inglewood
A1212030	High Street	Grade Crossing	Inglewood
A1212029	Arbor Vitae Street	Grade Crossing	Inglewood
A1212020	Hindry Avenue	Grade Crossing	Inglewood
711212023		Chude Crossing	
A1212029	Pedestrian Crossing at Florence/West station	Grade Crossing	Inglewood
A1212029	West Boulevard	Grade Crossing	Los Angeles/Inglewood
A1212029	Brynhurst Avenue	Grade Crossing	Los Angeles
A1301012	West 59th Street	Grade Crossing	Los Angeles
A1301012	Slauson Avenue	Grade Crossing	Los Angeles
A1301012	West 57th Street	Grade Crossing	Los Angeles
A1301012	West 54th Street	Grade Crossing	Los Angeles
A1301012	West 52nd Street	Grade Crossing	Los Angeles
A1301012	West 50th Street	Grade Crossing	Los Angeles
A1301012	West 48th Street	Grade Crossing	Los Angeles
A1302025	Hornet Way	Grade Separation	El Segundo
A1302025	Aviation Boulevard	Grade Separation	Los Angeles
A1302025	I-105 Freeway	Grade Separation	Los Angeles
A1302025	Imperial Highway	Grade Separation	Los Angeles
A1302025	111th Street	Grade Separation	Los Angeles
A1302025	104th Street	Grade Separation	Los Angeles
A1302025	Century Boulevard	Grade Separation	Los Angeles
A1302025	Manchester Avenue	Grade Separation	Inglewood
A1302025	La Cienega Boulevard	Grade Separation	Inglewood
A1302025	I-405 Freeway	Grade Separation	Inglewood
A1302025	Hyde Park Boulevard	Grade Separation	Inglewood
A1302025	La Brea Avenue	Grade Separation	Inglewood
A1302025	Pedestrian Crossing at La Brea-Florence Station (East)	Grade Crossing	Inglewood
A1302025	Pedestrian Crossing at La Brea-Florence Station (West)	Grade Crossing	Inglewood
	= Highlighted grade crossing/grade separations have	been approved.	

CHRONOLOGY OF EVENTS

2003	Major Investment Study
April 2007	Board authorized the CEO to award Contract PS 4330-1968 to complete environmental clearance and conceptual engineering.
December 2009	Board adopted the LRT Alternative as the Locally preferred Alternative and received and filed the Crenshaw Transit Corridor DEIS/DEIR.
December 2009	Board authorized the CEO to award Contract No. EO117 for Phase I, Advanced Conceptual Engineering.
September 2010	Board authorized the CEO to exercise option with Contract No. EO117 for Phase II Preliminary Engineering.
April 2011	Board adopted the Arbor Vitae/Bellanca (Site 14) LPA for the Maintenance Facility Site
July 2011	Board approved Southwestern Yard cost allocation.
September 2011	Board approved Project Definition and certified Final Environmental Impact Report
October 2011	Board approved the Life-of-Project Budget of \$1.749 billion.
December 15, 2011	CTC reviewed the FEIS/FEIR and adopted the required resolution for future funding consideration.
December 23, 2011	Request for Qualifications for Contract C0988 C/LAX Transit Corridor was released to Industry.
December 30, 2011	Received Record of Decision from FTA.
February 10, 2012	Released Invitation for Bid for Contract C0990 Crenshaw/LAX Advanced Utility Relocations.
March 12, 2012	Received Statement of Qualifications for Contract C0988 C/LAX Transit Corridor.

CHRONOLOGY OF EVENTS (Continued)

May 16, 2012	Notification of pre-qualified proposers for Contract C0988 C/LAX Transit Corridor.
May 30, 2012	Awarded Contract No. C0990 C/LAX Advanced Utility Relocations to Metro Builders and Engineers Group LTD.
June 22, 2012	Released Request for Proposals for Contract C0988 C/LAX Transit Corridor.
August 24, 2012	Received approval from the Surface Transportation Board regarding BNSF Railway Company abandonment along five-mile Crenshaw Segment of the Harbor Branch ROW.
September 4, 2012	Preparation of a FONSI for Supplemental Environmental Assessment to the FEIS was approved by FTA.
September 28, 2012	Completed abandonment process with BNSF.
September 28, 2012	TIFIA and TIGER II Grants approved.
December 6, 2012	Received proposals for Contract C0988 C/LAX Transit Corridor.
February 22, 2013	Issued Amendment No. 8 requesting Best and Final Offers (BAFO) for Contract C0988 C/LAX Transit Corridor.
March 15, 2013	Received BAFO's for Contract C0988 C/LA Transit Corridor.
May 23, 2013	Board amended the Agency's FY14 Proposed Budget to include funding of \$80 million for an underground station at Leimert Park Village as part of the baseline project.
June 27,2013	The Board awarded Contract C0988 Crenshaw/LAX Transit Corridor to Walsh-Shea Corridor Constructors.
July 10, 2013	Issued notice of award to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Corridor.

CHRONOLOGY OF EVENTS (Continued)

August 1, 2013	United States Department of Transportation approves Metro's request to increase the Crenshaw/LAX Project Budget to \$2,058 million.
August 8, 2013	Issued notice of execution of the contract was issued to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Corridor.
September 10, 2013	Issued Notice to Proceed to Walsh-Shea Corridor Constructors, Contract C0988 Crenshaw/LAX Transit Project.
December 5, 2013	The Board approved Memorandum of Understanding with the Los Angeles World Airports for a parallel design and possible construction modifications near Aviation/Century Station to accommodate elements of LAWA's SPAS.
December 5, 2013	The Board awarded Contract C0992 with Rocla Concrete Tie, Inc; for the procurement of concrete ties and assembly items.
January 21, 2014	A Groundbreaking Ceremony was held at the Crenshaw/Exposition Station.
January 23, 2014	The Board awarded Contract C0992A Rail and Bumping Posts to LB Foster Rail Technologies Corp.
March 7, 2014	Issued Notice to Proceed to LB Foster Rail Technology Corp., Contract C0992A Rail and Bumping Posts.
July 25, 2014	"Century Crunch" – weekend demolition of the defunct Century railroad bridge at the intersection of Century Blvd. and Aviation.
August 21, 2014	Substantial Completion issued for Advanced Utility Relocations Contract C0990.
August 29, 2014	Released Invitation for Bid for Contract C0991 Crenshaw/LAX Southwestern Yard (Division 16) Maintenance Facility.
September 19, 2014	CPUC has approved all five (5) grade crossing applications and no further actions are required.

CONTRACT C0988 STATUS

Crenshaw/LAX Transit Corridor

PE Design Contractor: Hatch M CM Consultant: Stantec	ott MacDo	onald (HM	Contract No.: C0988			
Contractor: - Walsh Shea Corrie	dor Const	ructors (V	Status as of December 28, 2014			
Progress/Work Completed: Design - Submitted Interim Design on Station - Submitted Segment A Readiness for Structures; Continued Segment A Ree Streets. - Submitted Segment B Readiness for Mesa. - Submitted Segment B Readiness for Mesa. - Submitted Segment B Final Design B Final Design on Local Street Harboc - Continued Segment C Readiness for Local Street. - Commenced Final Design - OCS. - Submitted Readiness for Constructi - Commenced ATC Specification. Construction - Continued potholing in the Vernon 8 - Continued geotechnical monitoring - Continued dwth SWPPP Implementat - Completed Construction for CSM in - Commenced and completed Phase - Commenced and completed SOE P - Continued utility relocation/ support - Continued utility relocation work at 1 - Commenced and completed hazma properties. - Continued CIDH work at Century Bl	or Construct adiness for or Constructic Constructic on Aerial G or North. or Construct on Design - ad MLK Stati at Vernon, I ation – Segr Expo. 2 deck ope in Pile at Ex work at Exp MLK, Verno t abatemen	ion Design Constructi ion Design on Design of iuideway; C tion Design TPSS & C on. MLK & Exp ments A, B eration at E: xpo Station <i>x</i> on Station <i>x</i> on Station <i>x</i> on Station <i>x</i>	Areas of Concern: - BOE approval process for SOE design - Cobbles and boulders found during excav- station. - Relocation of 24" LADWP water line impar- Vernon Station - The extra work for the 69" Hobas pipe work by the City may impact the schedule and design of the schedule and desig	ct the decking operation at rk at Expo Station required		
Schedule Assessment: Metro's assessment of the contractor on meeting interim design milestones Contractor's Dec 2014 schedule upda Substantial Completion is 118 calend	s. ate indicate	s Milestone			Cost Assessment: The current construction contract cost fore and is within the Board authorized budget. The Contractor submitted their 16th payme approved amount of \$11,566,382.73.	
Schedule Summary:					Cost Summary:	\$ In millions
1. Date of Award:		08/01/13			1. Award Value:	1,272.63
2. Notice to Proceed:		09/10/13			2. Executed Modifications:	7.10
3. Original Substantial Completion D	ouration:	1824			3. Approved Change Orders:	
4. Current Substantial Completion D	uration:	1824			4. Current Contract Value (1 + 2 + 3):	1,279.73
5. Elapsed Time from NTP:		479			5. Incurred Cost:	312.84
Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance	PERCENT COM from 9/10/13 to 01	
Milestone 1 - Contract Substantial Completion	09/08/18	09/08/18	01/04/19	-118	Design	81.4%
Milestone 2 - UFS Completion	03/09/18	03/09/18	06/04/18	-87		
Milestone 3 - Commence SIT Phase I	06/09/18	06/09/18	09/19/18	-102	Construction 9.8%	
Milestone 4 - Const./Turnover Parcels SW-0101, 0102, 0103	12/04/15	12/04/15	11/03/15	31	Total Incurred Cost	
Milestone 5 - Const./Turnover Parcels SW-0002, 0003, 0004, 0104	06/05/17	06/05/17	03/07/17	90		0% 80.0% 100.0%
Milestone 6 - Const./Turnover Parcels SW-0001	08/01/17	08/01/17	06/28/17	34	Percent Complete	e Progress
					Construction physical percent con mobilization and general requirem	

CONTRACT C0990 STATUS

Crenshaw/LAX Advanced Utility Relocations

-	Mott MacDonald (HMM)		Contract No.: C0990		and a
CM Consultant: Stantec Contractor: - Metro Builders a	and Engineers Gro	oup LTD		Status as of December 2	28, 2014	
Progress/Work Completed: - The construction was substantial	lly completed on Aug	21, 2014		Areas of Concern:		
Schedule Assessment: Metro has agreed to grant a total or result of lost production due to sar methodology for sewer line work a work hour restriction to 67th & Cree Metro granted substantial complet	ndy soil conditions an at 59th & Crenshaw, a anshaw tion to Metro Builders.	d revised in ind traffic co the Advan	change orders. The Contractor submitted their 23rd payment application in the			
Contractor on August 21, 2014, w	hich is 276 calendar o	lays behind	d.	approved amount of 62,512	•	
				The unpaid amount is the so remaining balance of provis		he base contract and
Schedule Summary:				Cost Summary:		\$ In millions
Schedule Summary: 1. Date of Award:	05/30/12	 2		Cost Summary: 1. Award Value:		\$ In millions 7.83
-	05/30/12 07/17/12			-		
1. Date of Award:	07/17/12			1. Award Value:		7.83
 Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion 	07/17/12 n Duration: 365 n Duration: 468			 Award Value: Executed Modifications: Approved Change Orde Current Contract Value 	rs:	7.83 0.97 0.49 9.29
 Date of Award: Notice to Proceed: Original Substantial Completion 	07/17/12 n Duration: 365			 Award Value: Executed Modifications: Approved Change Orde 	rs:	7.83 0.97 0.49
 Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: 	07/17/12 n Duration: 365 n Duration: 468 753 Original Current	2	Calendar Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs:	7.83 0.97 0.49 9.29 9.12
Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: <u>Milestones Milestones Milestone 1 - Contract Substantial </u>	07/17/12 n Duration: 365 n Duration: 468 753 Original Current Contract Contract	Forecast	Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12
 Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: Milestones	07/17/12 n Duration: 365 n Duration: 468 753 Original Current	Forecast	Day	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12
Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: <u>Milestones Milestones Milestone 1 - Contract Substantial </u>	07/17/12 n Duration: 365 n Duration: 468 753 Original Current Contract Contract	Forecast	Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12
Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: <u>Milestones Milestones Milestone 1 - Contract Substantial </u>	07/17/12 n Duration: 365 n Duration: 468 753 Original Current Contract Contract	Forecast	Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12
Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: <u>Milestones Milestones Milestone 1 - Contract Substantial </u>	07/17/12 n Duration: 365 n Duration: 468 753 Original Current Contract Contract	Forecast	Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: 	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12
Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: <u>Milestones Milestones Milestone 1 - Contract Substantial </u>	07/17/12 n Duration: 365 n Duration: 468 753 Original Current Contract Contract	Forecast	Day Variance	 Award Value: Executed Modifications: Approved Change Orde Current Contract Value Incurred Cost: Besign Design Total Incurred 0% 20%	rs: (1 + 2 + 3): PERCENT COMPLET	7.83 0.97 0.49 9.29 9.12 TE

CONTRACT C0991 STATUS

Southwestern Yard

rision 16) der bid submitta ensions.			Status as of December 28, 2014 Areas of Concern: - None. Status as of Concern: - None. Cost Assessment:
bid submitta ensions.	nittal require	d on	Cost Assessment:
			Cost Summary: \$ In millions 1. Award Value: . 2. Executed Modifications: . 3. Approved Change Orders: . 4. Current Contract Value (1 + 2 + 3): - 5. Incurred Cost: .
		Calenda Day Varianc 0 0 0 0 0 0	from to
			Contract Forecast Variance 0 0 0 0 0 0 0 0 0

CONTRACT C0992 STATUS

Concrete Ties

PE Design Contractor: Hatch CM Consultant: Stantec Contractor: Rocla Concrete Ti		onald (HM	Contract No.: C0992 Status as of December 28, 2014				
Progress/Work Completed: - All 19,936 concrete ties have bee (Contract C0988). - Contract is in close-out pending re	n received on				Areas of Concern: - Compliance with Buy America requirement under review by FTA.		
Schedule Assessment: Metro has agreed to grant a 15 cale limited access to the yard due to th (BNSF),which was beyond the reas All concrete ties have been delivered	e operation of sonable contro	f Burlingtor ol of RCTI.	Cost Assessment: The current contract cost forecast is \$2,243,035 The unpaid balance of \$178,454.29 is the tax amount of the base contract.				
Schedule Summary:					Cost Summary: \$ In millions		
1. Date of Award:			12/10/13	3	1. Award Value: 2.16		
 2. Notice to Proceed: 			12/23/13	3	2. Executed Modifications: 0.08		
 Original Substantial Completion 	Duration:		220)	3. Approved Change Orders:		
 Current Substantial Completion 			235	5	4. Current Contract Value (1 + 2 + 3): - 2.24		
 5. Elapsed Time from NTP: 	- 010001.		235	5	5. Incurred Cost: 2.06		
Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance	from 12/23/2013 to 8/15/14		
Milestone 1 - Contract Substantial Completion	07/31/14	08/15/14	08/15/14	0	Delivered 100%		
				0			
				0	Shipped		
				0	Total Incurred Cost		
				0	0% 20% 40% 60% 80% 100%		
				0	Percent Complete Progress Construction physical percent complete excludes		
					mobilization and general requirements		

CONTRACT C0992A STATUS

Running Rail and Bumping Posts

CM Consultant: Stantec					Contract No.: C0992A Status as of December 28, 2014
Progress/Work Completed: - All 115RE SS Blank Stick Rails hav - All 115RE HH rail have been delive	ve been del	ivered to th	ne job site.		Areas of Concern:
Schedule Assessment:					Cost Assessment:
All running rails have been delivered.					The current contract cost forecast is \$5,184,044.79.
Both Metro and LB Foster agreed to a time extension change for the delivery of the bumping post. The new delivery date has been changed from 12/31/2014 to 9/30/2015.					No invoice was received in December 2014.
Schedule Summary:					Cost Summary: \$ In millions
1. Date of Award:			01/23/14	Ļ	1. Award Value: 5.2
2. Notice to Proceed:			03/07/14	ļ	2. Executed Modifications:
3. Original Substantial Completion D	ouration:		300		3. Approved Change Orders:
4. Current Substantial Completion D	uration:		558		4. Current Contract Value (1 + 2 + 3): - 5.2
5. Elapsed Time from NTP:			301		5. Incurred Cost: 4.8
Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance	PERCENT COMPLETE from 3/7/2014 to 01/02/15
Milestone 1 - Contract Substantial Completion	12/31/14	09/30/15	09/30/15	0	Desire 0%
proton			1	0	Design 0%
					Construction 93%
				0	
				0	Total Incurred 93%
				0	Cost
				0	0% 20% 40% 60% 80% 100% Percent Complete Progress
					Construction physical percent complete excludes mobilization and general requirements



Aviation/Century Aerial Structure Bent 4R CIDH Pile and Column Cage.



Aviation Century Aerial Structure Bent 8R CMP Isolation Casing.



Expo North Headwall Drilling CSM Panel N1.



Excavation of Expo Station at beam 45, 46 and 47 area.



CONSTRUCTION PHOTOGRAPHS (Continued)

Continued excavation on deck beam 44 and 45 area at the Expo Station.



Slurry Backfill on outer edges of excavation north of Rodeo Road.





Steel Sleeve on Gas Main.



Welding on Deck and Cap Beams at Crenshaw and Rodeo.



CONSTRUCTION PHOTOGRAPHS (Continued)

Continued to place concrete deck panels.



Continued excavation of beams 48 and 49 areas.



Formed and Placed Slurry on west side of excavation.

COST AND BUDGET TERMINOLOGY

	AND DUDGET TERMINOLOGT
Project Cost Descriptions -	
ORIGINAL BUDGET	The Original Project Budget as established by the Metropolitan Transportation Authority (Metro) Board on October 27, 2011.
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 invoices, third party invoices, 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 Elemer	nt 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 LRT 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 receivable to the Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like.

APPENDIX

LIST OF ACRONYMS

ACE ADA ADR ALJ AMC APM ATC ATC ATC ATSAC BAFO BID BIM BLS BNSF BOC CADD CALTRANS CARB CCTV CD CALTRANS CARB CCTV CD CD CDRL CC CD CDRL CC CD CDRL CC CC CD CDRL CC CC CD CDRL CC CC CD CDRL CC CC CC CC CC CC CC CC CC CC CC CC CC	Advanced Conceptual Engineering Americans with Disabilities Act Alternative Dispute Resolution Administrative Law Judge Airport Metro Connector Automated People Mover Alternative Technical Concept Automatic Train Control Automated Traffic Surveillance and Control Best and Final Offer Business Improvement Development Building Information Modeling Bureau of Labor Statistics Burlington Northern Santa Fe Railway Company Bus Operations Control Computer Aided Drafting and Design California Department of Transportation California Air Resources Control Board Closed Circuit Television Calendar Day Council District Contract Data Requirement List Categorical Exemption California Environmental Quality Act Code of Federal Regulations Cast in Drilled Hole Community Leadership Council Construction Manager Congestion Mitigation and Air Quality Improvement Program Change Notice Change Order Critical Path Method California Public Utilities Commission Camera Ready
CPUC	California Public Utilities Commission
CR	Camera Ready Cultural Resources Manitoring and Mitigation Plan
CRMMP CSM	Cultural Resources Monitoring and Mitigation Plan Cutter Soil Mixing
CSPP	Construction Safety Phasing Plan
CTC	California Transportation Commission
CUD	Contract Unit Description
CWP	Construction Work Plan
DB	Design Build
DBB	Design Bid Build
DBE	Disadvantaged Business Enterprise

DOT DRB DWP EEO EIR EIS EPBM FAA FAR FAR FAT FCBC FD FEIR	Department of Transportation Dispute Review Board Department of Water and Power Equal Employment Opportunity Environmental Impact Report Environmental Impact Statement Earth Pressure Balance Machine Federal Aviation Administration Federal Acquisition Regulation Factory Acceptance Testing Faith Central Bible Church Final Design Final Environmental Impact Report
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FFGA	Full Funding Grant Agreement
FIS FLSR	Financial Information System 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
FTA	Federal Transit Administration
FTE	Full Time Equivalent
GBR	Geotechnical Baseline Report
GDSR	Geotechnical Design Summary Report
GFE	Good Faith Effort
HMM	Hatch Mott MacDonald
HNTB	Howard, Needles, Tammen and Bergendoff
IFB	Invitation for Bid
IPMO	Integrated Project Management Office
ITF	Intermodal Transportation Facility
JV LA	Joint Venture
LABOE	Los Angeles Los Angeles Bureau of Engineering
LABOL	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 LAX LNTP LOA LONP LOP LPA LRT LRTP LRV MBE MCA MIC MIS MMRP MOA MOS MOU MPS MOA MOS MOU MPS MPSR MSDS MSF N/A NAVAIDS NEPA NFPA NFPA NFPA NFPA NFPA NFPA NFPA NF	Los Angeles World Airports Los Angeles International Airport Limited Notice To Proceed Letter of Agreement Letter Of No Prejudice Life-of-Project Locally Preferred Alternative Light Rail Transit Long Range Transportation Plan Light Rail Vehicle Metro Builders and Engineers Group, Ltd Master Cooperative Agreement Microbiologically Influenced Corrosion Control System Major Investment Study Mitigation Monitoring Reporting Plan Memorandum of Agreement Minimum Operating Segment Memorandum of Understanding Master Program Schedule Monthly Project Status Report Material Safety Data Sheet Maintenance & Storage Facility Not Applicable National Aid Systems National Environmental Protection Act National Fire Protection Association Notice of Noncompliance Notice of Determination National Pollution Discharge Elimination System Not to Exceed Notice To Proceed Operations Control Center
NPDES	National Pollution Discharge Elimination System
OCC	Operations Control Center
OCS	Overhead Catenary System
OSHA OTS	Occupational Health and Safety Administration Over the Shoulder
PA/VMS	Public Address/Visual Messaging Sign
	Project Design Quality Manual
PE PEER	Preliminary Engineering Permit Engineering Evaluation Report
PID	Photo Ionization Detector
PIP	Project Implementation Plan
PLA	Project Labor Agreement

PM PMIP PMMP PMOC PMP P&P POD PQPM PR PSR QA QAR QC QPSR QA QAR QC QPSR QTIB RAMP RCHAR RCHAR RCHAR RCHAR RCHAR RFC RFMP RFQ RFQ RFQ RFQ RFQ RFQ RFQ RFQ RFQ RFQ	Project Manager Project Management Implementation Plan Paleontological Monitoring and Mitigation Plan Project Management Oversight Consultant Project Management Plan Policies & Procedures Project Oriented Discussions Project Quality Program Manual Project Report Project Study Report Quality Assurance Quality Assurance Report Quality Assurance Report Quality Control Quarterly Project Status Report Qualified Transit Improvement Bonds Real Estate Acquisition Management Plan Rail Crossing Hazards Analysis Report Risk Assessment Management Plan Rain Event Action Plans Request For Change Rail Fleet Management Plan Request For Proposals Request For Proposals Reduest For Qualifications Risk Hazard Analysis Red Light Photo Enforcement Rail Operations Center Record Of Decision Right of Entry Rough Order of Magnitude Right-Of-Way Runway Protection Zone Revenue Service Date Regional Transportation Improvement Program Stand Alone Validator Supervisory Control and Data Acquisition Southern California Air Quality Management District Standard Cost Category Southern California Edison Southern California Edison Southern California Regional Rail Authority
SCRRA SHA	Southern California Regional Rail Authority State Highway Account
SHPO	State Historic Preservation Office

SIT SOE SOQ SOV SOW SP SPAS SPP SSMP STB STIP STV SWPP SWY TBD TBM TCE TCRP TIFIA TIGER TOD TPSS TRACS TVA TVM UFS USDOT VE WBS WP	System Integration Testing Support of Excavation Statement of Qualification Schedule Of Value Statement Of Work Special Provision Specific Plan Amendment Study Special Permitting Process Safety and Security Management Plan Surface Transportation Board State Transportation Board State Transportation Program Surface Transportation Program STV Group Storm Water Prevention Plan Southwestern Yard (Division 16) To Be Determined Tunnel Boring Machine Temporary Construction Easement Traffic Congestion Relief Program Transportation Infrastructure Finance and Innovation Act Transportation Infrastructure Finance and Innovation Act Transportation Investment Generating Economic Recovery Transit Oriented Development Traction Power Substation Transit Automatic Control System Threat Vulnerability Analysis Ticket Vending Machine Universal Fare System United States Department Of Transportation Value Engineering Work Breakdown Structure Work Package
VE	Value Engineering
-	
WSCC	Walsh/Shea Corridor Constructor
YOE	Year of Expenditure