# **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).

**JUNE 2014** 

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## PROJECT SUMMARY

**CONSTRUCTION MANAGEMENT CONSULTANT: Stantec** LOCATION: Crenshaw Blvd at Exposition south to Green Line **DESIGN/CONSULTANT: Hatch Mott MacDonald** CONTRACTOR: Walsh-Shea Corridor Constructors (WSCC) PROJECT PHOTO: Pre-drilling holes for cutter soil mixing (CSM) operation in the Crenshaw/Exposition Station yard. WORK COMPLETED PAST MONTH: o WSCC continued final design. o WSCC continued cutter soil mixing pile installation at Exposition Station and MLK Station sites. o WSCC completed demolition of buildings for future Florence/La Brea Station. o Metro continued real estate acquisitions. o Metro Builders continued advanced utility relocations. o LADWP continued water line relocations at MLK Station. o Continued shipment of concrete ties to storage site. **EXPENDITURE STATUS** SCHEDULE ASSESSMENT (\$ In Millions) FXPENDED CURRENT PERCENT MAJOR SCHEDULE CURREN **ACTIVITIES BUDGET AMOUNT EXPENDED** PLAN PLAN VARIANCE WEEKS **ACTIVITIES** Environmental **DESIGN** \$ \$ 136.7 68.9 FEIS/FEIR 50.4% Complete Record of Decision Dec-1 Dec-1 Complete RIGHT-OF-WAY \$ 127.4 \$ 99.0 77.7% Design CONSTRUCTION 1,353.1 183.7 13.6% \$ \$ Preliminary Engineering Nov-11 Nov-11 Complete Final Design On Schedule Sep-15 OTHER 440.8 \$ 77.9 17.7% Right-of-Way 429.5 TOTAL 2,058.0 \$ 20.9% All full take parcels availab Aug-14 Dec-14 16 weeks behind Note: cost expended as of June 28, 2014 Construction AREAS OF CONCERN D-B Notice to Proceed Sep-13 Sep-13 Complete **D-B Substantial Complete** Sep-18 Sep-18 o Right-of-way acquisition forecast dates trending later than planned. o CPUC approval of grade-separation crossings applications. Revenue Service Date Oct-19 Oct-19 On schedule o Timely future reviews of WSCC's designs by City of Los Angeles, lote: design-builder forecasts City of Inglewood, Caltrans, FAA and Los Angeles World Airports. o Third party relocations prior to design-builder's construction activities o Execution of Agreement with City of Inglewood. ROW ACQUISITION ACQUIRED REMAINING **CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD** PLAN o WSCC demolition of bridge at Century Boulevard and Aviation. **FULL TAKES** 4 o WSCC continue final design. 35 31 o WSCC continue support of excavation work at Exposition Station. PARTIAL TAKES o WSCC continue support of excavation work at MLK Station. 27 2 25 o LADWP continue water line relocations at MLK Station. TEMPORARY EASEMENTS o Metro Builders substantially completes all work. 12 11 TOTAL PARCELS 74 34 40 o Metro continue turning over real estate properties to WSCC.

# **PROJECT OVERVIEW**

# **Major Contract Procurement**

Metro has moved up the solicitation of Contract C0991, Southwestern Yard to this summer. Staff is working on preparing the solicitation package.

#### Construction

**Contract C0990** - The advanced utility relocations Contractor, Metro Builders and Engineers Group, LTD (MBE) continues relocations along Crenshaw Blvd:

- At the Crenshaw cut and cover tunnel area 60<sup>th</sup> Street (north portal) relocation of a 10" VCP sewer line to clear way for the cut and cover trench is complete. The Jack & Bore operations under Crenshaw at 59<sup>th</sup> Place is also complete.
- At the Crenshaw cut and cover tunnel area 67<sup>th</sup> Street (south portal) *relocation of an 18" VCP sewer line to clear way for the cut and cover trench is complete.*
- The LADWP (Water) scope of work for lowering and encasing four water crossings on Crenshaw Blvd, three 8" steel water lines and one 12" steel water line, to clear the way for a cut and cover trench is complete.

MBE has not been able to mitigate schedule delays. Metro's assessment is that substantial completion can be issued by July 31, 2014. The projected completion date still does not appear to impact the follow-on design-builder's (C0988) scope of work.

See the Contract C0990 Status sheet on page 45 for cost and schedule information.

**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 resolve remaining Design Confirmation comments for track, stations, TPSS and train control.
- Initiated Interim (60%) design reviews for facilities work.
- Initiated "Readiness for Construction" (85%) early Design Unit foundation bridge submittals.
- Existing Utility Verification report comments issued to WSCC. Metro is working with WSCC to disposition changed utility conditions.
- A factory acceptance test for the TBM has been scheduled for July 2014 at the TBM factory site in Germany.

Construction efforts continue along the three major areas or segments:

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

- Continued removal of old BNSF signal boxes, track mechanisms, and communication poles. The rail and tie removal has been completed.
- Continued to receive steel for excavation and bridge support at the Bellanca St. Yard.
- Continued to receive Metro supplied concrete ties at the Bellanca St. Yard.
- Started receiving rail for trackwork.
- Removed and stockpiled ballast along the right-of-way (Sta 15+00 130+00).
- Removed asbestos abatement on Century Bridge and approaches.

# **PROJECT OVERVIEW (Continued)**

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

- Continued demolition at Florence/La Brea properties.
- Removed and stockpiled ballast along the right-of-way (Sta 130+00 273+00).

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

- Crenshaw/Exposition Station area
  - Continued additional geotechnical borings.
  - o Continued tree removal and stump grinding.
  - Continued cutter soil mixing pile installation.
  - o Started relocation of 10" VCP SS line off west pile line.
- Crenshaw/MLK Station area
  - Continued tree removal and stump grinding.
  - Started water relocation at MLK Station area.
- Crenshaw/Vernon Station area
  - Continued potholing.

See Contract C0988 Status sheet on page 44 for cost and schedule information.

## 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 34 parcels acquired through June 2014. Twenty-nine full takes and two part takes have been provided to WSCC. The other three parcels will be provided to WSCC once relocations have been completed. For some parcels trending late for turnover, Metro has negotiated later turnover dates with WSCC.

#### **Systems**

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.

# **PROJECT OVERVIEW (Continued)**

#### **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 needs to secure a legally binding 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. The agreement was approved by the Metro Board in May 2014.

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 federal percentages are as follows; local funding 79.9%, state funding 14.0% and federal funding 6.1%.

The project commitments thru June 2014 are \$1,620.7 million or 78.8% of the Current Budget. The project expenditures thru June 2014 are \$429.5 million or 20.9% of the Current Budget. The expenditures to date are for previous environmental/planning and preliminary engineering efforts as well as final design and construction costs. The expenditures to date also include the Southwestern Yard expenditures that are part of the 49% cost allocation share that the Project is responsible for paying for.

The project master schedule continues to reflect a forecast of October 2019 for Revenue Service which includes the additional two station options, Leimert Park Station and Hindry Station. This Baseline Revenue Service Date reflects the award of the design-build contract and ratification of a board motion to execute the bid options in the RFP conditioned upon amendment to the TIFIA loan agreement and execution of an agreement with the City of Los Angeles.

# **PROJECT OVERVIEW (Continued)**

The project schedule contingency was reduced by 46 calendar days this period. The cumulative to date reduction in schedule contingency is 105 calendar days. The drawdown of schedule contingency went from 6.7 months to 5.2 months. The reason for the reduction in schedule contingency is a reported delay by the design-builder in their monthly schedule update, due to their schedule forecast that the decking operation will not be completed in time prior to the start of the street work holiday moratorium late this year near the Crenshaw/Exposition Station.

A Risk Assessment Workshop was held on December 11<sup>th</sup> and 12<sup>th</sup> for the purpose of conducting a risk assessment of the project at a key stage of the project; after issuance of the notice to proceed to the design-builder. This was the third of five planned risk assessment workshops. The results from the workshop are included in the Risk and Contingency Management Plan that was updated and issued on February 28, 2014. The Plan includes as attachments the updated Risk Register that was issued on February 13, 2014 and an update of Metro's Master Schedule.

On a monthly basis, the project's risk manager will advise project management of the risk register items mitigation status. An update of the Project's risk register will be issued on July 18, 2014.

# **MANAGEMENT ISSUES**

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

Status/Action A CSPP has to be submitted by the design-builder for their scope of work in the LAX area (underground trench). The design-builder continues to work on the support of excavation design required for the underground trench. Approximately in September 2014 the design-builder will update the CSPP and request reactivation of the permit required (FAA 7460) in order to start construction in the trench area by December 2014.

**Concern No. 2:** Metro has submitted five applications to the California Public Utilities Commission (CPUC) for approval of grade crossing improvements.

**Status/Action** The CPUC approved Package No. 5 on February 27, 2014 and Packages No. 2 and No. 3 on April 10, 2014. See page 40 for more detail.

There have been protests on two of the five applications (packages 1 and 4). The Crenshaw Subway Coalition Park-Mesa grade crossing issue remains open. The CPUC Administrative Law Judge has not issued a decision. It is anticipated that the CPUC will act on Packages No. 1 and No. 4 in summer 2014.

## **MANAGEMENT ISSUES**

**Concern No. 3:** 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. 4:** 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 34 parcels acquired through June 2014. Twenty-nine full takes and two part takes have been provided to WSCC. The other three parcels will be provided to WSCC once relocations have been completed.

Some parcels are being delivered later than originally planned to WSCC. Metro and the design-builder are working together to refine the turnover dates to ensure there is no impact to the design-builder's construction schedule. In addition, Metro is maintaining additional consultant staff to support existing Metro staff in appraisal reviews, making offers, relocations and any coordination efforts required.

**Concern No. 5:** Variance to nighttime working hours.

<u>Status/Action</u> The design-builder's variance to nighttime working hours for Segments A, B, C and E has been renewed thru December 2, 2014. The variance for Segment D remains suspended. Metro is working with officials to get the suspension lifted.

**Concern No. 6:** Timely future reviews of WSCC final design submittals by City of Los Angeles, City of Inglewood, Caltrans, FAA and Los Angeles World Airports.

<u>Status/Action</u> Metro is coordinating with all third party agencies in advance of the first submittals by WSCC to ensure that timely review requirements will be met to support WSCC's baseline 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**

.Concern No. 7: 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. Three changes were executed with WSCC for only the parallel design effort required. Two of the planned three construction changes with WSCC are pending execution.

**Concern No. 8:** Relocations of utilities by outside third parties required to be performed in advance of the main Crenshaw/LAX Design Build Contractor's work.

<u>Status/Action</u> Metro is working closely with various third party agencies to have relocations of utilities performed in accordance with the design-builder's baseline schedule. In May, there was additional slippage in the scheduling of water main relocations at the Crenshaw/Expo Station area which may impact the design-builder. This has resulted in erosion to the project schedule contingency as forecasted by the design-builder.

**Concern No. 9:** Drawdown of project contingency.

<u>Status/Action</u> Metro in December 2013 forecast a potential drawdown of unallocated contingency in the amount of \$8.6 million for third party utility relocation work. This contingency drawdown is earlier than was anticipated for this stage of the project. Metro continues review of third parties scope of works and will carefully review all invoices as they are received.

**Concern No. 10:** Timing of the solicitation for Contract C0991 Southwestern Yard.

<u>Status/Action</u> Metro continues preparation of a bid solicitation package for a planned advertisement in August 2014.

**Concern No. 11:** Design-builders design submittal schedule

<u>Status/Action</u> WSCC is falling behind on meeting interim design milestones but are maintaining the Contract milestones. Due to this trend, Metro requested a recovery plan on how WSCC will get back on schedule so as not to impact planned construction activities. WSCC has reviewed the recovery plan with Metro that shows how designer will still meet the major design milestones this fall. An additional eight key design management staff have been assigned by WSCC to oversee the various segments of the design effort.

# **MANAGEMENT ISSUES (Continued)**

Concern No. 12: Design-builders construction schedule

<u>Status/Action</u> WSCC for the third consecutive month has shown an increase in the negative float in relationship to the substantial completion milestone. Due to this trend, Metro has requested a recovery plan on how WSCC will get back on schedule. In addition, Metro is reviewing WSCC request for a time extension due to third party utility relocation delays.

# **PROJECT ALIGNMENT**

# Crenshaw/LAX Transit Project





## **BASE 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, prequalification 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).

# **BASE 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 one-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

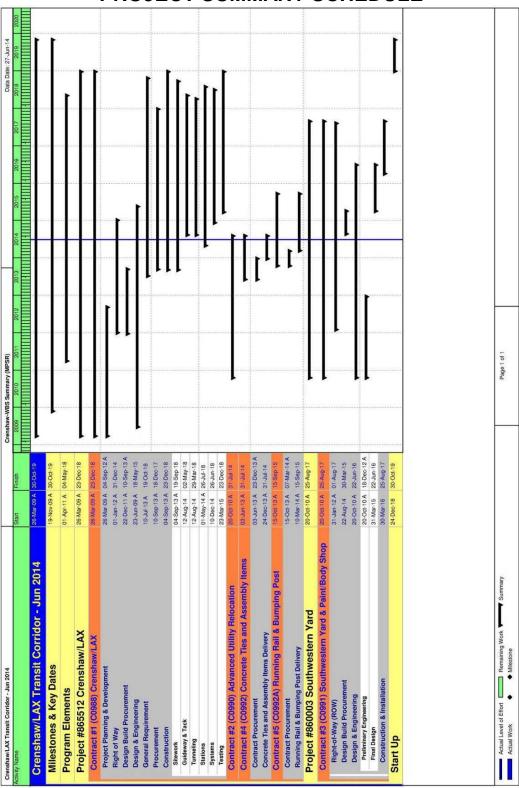
Metro added a contract for rebidding the procurement of running rail and bumping posts for the Design-Build Contract C0988 Crenshaw/LAX Transit Corridor Contractor.

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

# **KEY MILESTONES SIX- MONTH LOOK AHEAD**

	Milestone	I			ı	l	
	Date	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14
Contract C0988 Start Shoring Operation at Crenshaw/Expo	6/19/2014A	ALLES OF SEE					
Contract C0988 Start Shoring Operation at Crenshaw/MLK	6/23/2014A	<u> </u>					
Contract C0988 Submit Interim Design to Metro - System	07/02/14		AMERICA STATE				
Contract C0988 Submit Interim Design to Metro - Segments	07/10/14		MI PROPERTY				
Contract C0992A SDI 115RE SS Rail Delivery	07/15/14						
Contract C0988 Demo W. Century Blvd Railroad Bridge	07/27/14		AND COLUMN				
Contract C0988 Submit TBM Final Design to Metro	07/28/14		<u> </u>				
Contract C0990 Substantial Completion	07/31/14						
Contract C0992 Concrete Ties Delivery	07/31/14						
Contract C0992A Evraz115RE HH Rail Delivery	08/15/14						
Contract C0991 Southwestern Yard Advertise IFB	08/22/14						
Contract C0988 Start Aerial Structure #1	08/28/14			City			
Contract C0988 Start Soldier Piling at Vernon	09/17/14				ALLE STEE		
Contract C0988 Submit RFC Design - COMM	10/17/14					MALES DE SELE	
Contract C0988 Submit RFC Design - Segment A	10/21/14					20.15 C 10.11	
Contract C0988 Submit RFC Design - Segment C	10/22/14					MALES OF SALES	
Contract C0988 Deliver TBM	11/07/14						ALE O SEE
Contract C0988 Submit RFC Design - TPSS	11/18/14						-On
Contract C0991 Southwestern Yard Bids Due	11/19/14						
Contract C0988 Submit RFC Design - Segment B	11/21/14						and Date
MTA Staff MTA Board Action	FTA (Federal T	ransportation	n Authority)				
Other Agencies Contractors	Walsh Sh	ea					
"A" following date is actual and completed	* New Date						

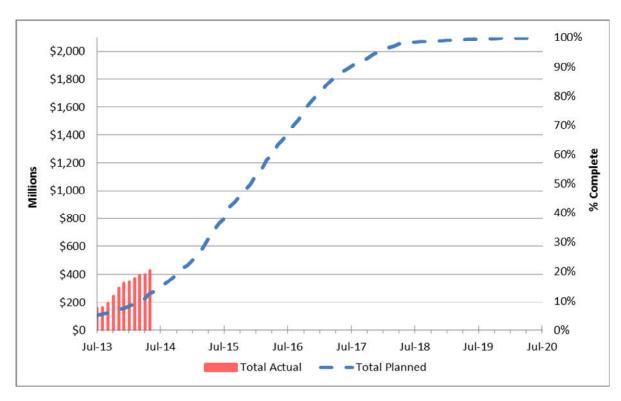
# PROJECT SUMMARY SCHEDULE



# **SCHEDULE MEASUREMENTS**

Current Revenue Service: Forecast Revenue Service:	Status 10/30/2019 10/30/2019	Change from Last Period None None	Comment
TIFIA Revenue Service:	10/30/2019	None	
Final Design Progress:			
Contract C0988	51%	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	4%	0.5%	Behind Schedule
Contract C0990	99%	3%	Behind Schedule
Contract C0991	0%	-	Not yet advertised
Contract C0992	94%	44%	On Schedule
Contract C0992A	39%	39%	On Schedule
Cumulative To Date Progress:	17.0%	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 June 2014 schedule update.

The cumulative overall final design and construction progress is 17.0%.

Contract overall progress for C0990 is 97%. This contractor continues to be behind schedule. See Contract C0990 Status sheet, page 45, for more information.

Final Design for C0988 commenced upon MTA issuing NTP on September 10, 2013. Cumulative final design progress to date is 51%, while the construction progress is 4% to date. See Contract C0988 Status sheet, page 44, 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	May-14	Jun-14	Monthly Variance
Place Purchase Order for EPBM	10/30/13	10/30/13A	10/30/13A	-
Submit Final Design Details for TBM	01/03/14	06/27/14	07/28/14	-31
Fabricate & Deliver EPBM	09/22/14	05/01/15	11/07/14	175
Procure & Deliver TBM Rolling Stock & Accessories	06/23/14	05/01/15	05/01/15	0

WSCC has rescheduled the TBM delivery to the jobsite as close to the originally date due to expensive monthly storage cost requested by the TBM manufacturer.

#### **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**

The completion of the delivery of the concrete ties is still forecast by July 31, 2014.

#### **Running Rail & Bumping Post**

The delivery of the equipment is as follows:

- Rail Submittal 4/18/2014 (Commenced)
- SDI 115RE SS Rail Delivery 7/15/2014
- Evraz 115RE HH Rail Delivery 8/15/2014
   Bumping Post Delivery 9/15/2015 (see page 46 for more detail)

# **DESIGN-BUILDER'S (C0988) LONG LEAD ITEM LIST**

Item	Delivery	Needed by
Traffic Signal Poles	4/12/2015	7/6/2015
Street Light Poles	4/12/2015	7/6/2015
Tunnel Ventilation Fans	8/6/2015	3/2/2017
Jet Fans (Cut & Cover)	1/21/2016	3/20/2017
Structural Steel - Canopies	9/7/2015	6/8/2017
Laminated Tempered Canopy	6/5/2015	2/15/2017
Station - Elevators	2/19/2016	4/10/2017
Station - Escalators	2/19/2016	6/15/2016
Track - Special Trackwork	2/29/2016	3/1/2016
Unit Substations - Expo	8/21/2015	1/5/2018
Unit Substations - MLK	8/21/2015	5/23/2017
Unit Substations - Vernon	8/21/2015	3/28/2017
TPSS - Substation 1	10/16/2015	1/11/2016
TPSS - Substation 2	12/29/2015	12/31/2015
TPSS - Substation 3	3/9/2016	3/10/2016
TPSS - Substation 5	5/18/2016	5/19/2016
TPSS - Substation 6	7/29/2016	8/22/2016
TPSS - Substation 8	10/10/2016	12/29/2016
TPSS - Substation 9	12/20/2016	8/8/2017
TPSS - Substation 10	3/2/2017	9/21/2017
Communication Equipment for TC&C #1 / Aviation Yard	7/21/2015	2/4/2016
Communication Equipment for TC&C #2 / Aviation/Century	11/18/2015	1/21/2016
Communication Equipment for TC&C #4 / Hindry	2/22/2016	11/16/2016
Communication Equipment for TC&C #5 / Florence/West	9/29/2016	2/21/2017
Communication Equipment for TC&C #6 / Crenshaw/Slauson	2/7/2017	6/26/2017
Communication Equipment for TC&C #7 / Crenshaw/MLK	9/14/2017	10/11/2017
Communication Equipment for TC&C #8 / Crenshaw/Expo	12/18/2017	12/19/2017
Communication Equipment for COM #1 / UG-1	8/25/2015	7/12/2016
Communication Equipment for COM #2 / UG-2	4/4/2016	4/24/2017
Communication Equipment for COM #2 / Florence/La Brea	6/27/2016	3/30/2017
Communication Equipment for COM #3 / UG-3	11/10/2016	6/5/2017
Communication Equipment for COM #4 / UG-4	3/21/2017	11/13/2017
Communication Equipment for COM #4 / Vernon	6/14/2017	10/3/2017
OCS Poles	10/16/2015	8/8/2016

# **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 Expo and MLK Station support of excavation (SOE) and decking, excavation & invert construction; TBM mining in south bound tunnel; cross passage excavation, tunnel invert and walkway construction; track and system installation, while the Vernon station SOE, decking & excavation, underground structure #3 shoring and excavation and underground structure #4 cut and cover 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 Dec 23, 2018, which is 105 calendar days behind. As part of a recovery plan, the Contractor is targeting completing decking before the holiday moratorium to gain six weeks of schedule. WSCC is also reviewing the deck installation plan in Expo and MLK with a full closure option rather than the weekend only to gain another eight weeks.

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH 28-JUN-2014.

# **PROJECT COST STATUS**

PERIO	REPORT BY ELEMENT D: JUNE 2014 IN DOLLARS										-
SCC	DESCRIPTION	ORIGINAL	CURREN	IT 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	-	442,320,586	898,782	16,898,782	-	452,500,001	-
20	STATIONS	153,906,000	-	316,050,000	-	300,550,000	14,326,077	16,759,670	(1,000,000)	315,050,000	(1,000,000)
30	SOUTHWESTERN YARD	66,673,000	-	66,673,000	-	-	-	-	-	66,673,000	-
40	SITEWORK\SPECIAL CONDITIONS	235,576,000	-	348,565,999	56,789	334,572,297	4,551,971	150,026,104	1,000,000	354,970,999	6,405,000
50	SYSTEMS	125,132,000	-	169,311,000	-	149,821,000	20,000	20,000	-	169,436,000	125,000
10-50	CONSTRUCTION	1,052,622,000	-	1,353,100,000	56,789	1,227,263,883	19,796,830	183,704,555	-	1,358,630,000	5,530,000
60	RIGHT-OF-WAY	132,294,000	-	127,400,000	243,290	113,792,673	328,110	98,982,848	-	127,400,000	-
70	LRT VEHICLES	87,780,000	-	82,100,000	-	82,050,901	-	11,452,422	-	82,100,000	-
80	PROFESSIONAL SERVICES	273,147,000	-	295,900,000	511,154	172,028,227	10,991,696	109,781,783	-	299,025,000	-
90	UNALLOCATED CONTINGENCY	177,157,000	-	173,500,000	-	ı				164,845,000	(8,655,000)
	865512 & 860003 - SUBTOTAL	1,723,000,000	-	2,032,000,000	811,233	1,595,135,684	31,116,637	403,921,608	-	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	(450,612)	20,023,237	-	20,023,237	-	20,473,850	-
	405512 & 465512 - SUBTOTAL	26,000,000	-	26,000,000	(450,612)	25,549,388	-	25,549,388	-	26,000,000	-
	405512, 465512, 865512 & 860003 - TOTAL	1,749,000,000	-	2,058,000,000	360,621	1,620,685,072	31,116,637	429,470,995	-	2,058,000,000	-

# **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
  - o 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.

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.

# **PROJECT COST ANALYSIS (Continued)**

#### **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 June 28, 2014. The total commitments increased by \$0.4 million this period primarily due to the following:

- SCC-40 (Sitework and Special Conditions) has increased by \$0.1 million for executed modifications associated with the Advanced Utility Relocations Contract C0990.
- SCC-60 (Right-of-Way) has increased by \$0.2 million for real estate acquisition services related to LAX Aviation/Century Intermodal Transit Center. The total commitment of \$113.8 million includes \$53.3 million for the Southwestern Yard which has been capped at this funding level.
- SCC-80 (Professional Services) has increased by \$0.5 million for executed modifications for preliminary engineering design contract E0117, Metro project administration, IPMO field office lease, executed modifications for project management support, and community relations services. The total commitment of \$172.0 million includes \$2.8 million for the Southwestern Yard.
- EP-465512 (Environmental Planning) has a decreased of \$0.4 million due to end of fiscal year purchase order close out and de-commitments.

The \$1,620.7 million in commitments to date represents 78.8% of the current budget.

#### Expenditures:

The expenditures are cumulative through June 28, 2014. The total expenditures increased by \$31.1 million this period due to the following:

- SCC-10 (Guideways and Track) has increased by \$0.9 million for cost associate with design-build Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-20 (Stations) has increased by \$14.3 million for cost associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-40 (Sitework and Special Conditions) has increased by \$4.6 million for costs associated with the design-build Contract C0988 Crenshaw/LAX Transit Corridor and Advanced Utility Relocations Contract C0990.
- SCC-60 (Right-of-Way) has increased by \$0.3 million for cost associated with real estate acquisition, environmental and relocation. The total expenditure of \$99.0.million includes \$53.3 million for the Southwestern Yard which has been capped at this funding level.
- SCC-80 (Professional Services) has increased by \$11.0 million for costs associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor, Engineering and Design Contract E0117, Metro project administration, IPMO field office lease and utilities, construction management support, legal, tunnel advisory panel, third party scope of work with Los Angeles City Departments, printing, quality management, community relations, and environmental consultant services. The total expenditure of \$109.8 million includes \$1.0 million for the Southwestern Yard.

The \$429.5 million in expenditures to date represents 20.9% of the current budget.

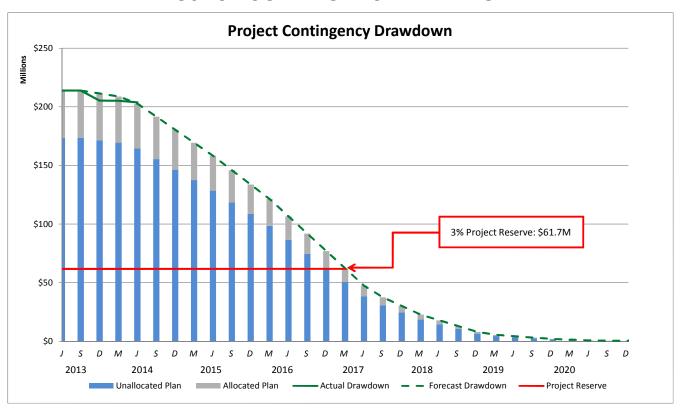
# **PROJECT COST ANALYSIS (Continued)**

### 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 TRANS	IT PROJECT FU	NDED SCO	PE OF WORK							
DESCRIPTION	ORIGINAL	CURREN	IT BUDGET	COMM	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	-	2,549,000	95,600	119,500	-	2,549,000	239,000
460303 AIRPORT METRO CONNECTOR	366,400	-	366,400	-	366,400	40,304	95,264		366,400	-
500013 C/LAX LAWA SCOPE OF WORK	1,575,362	-	1,575,362	-	168,278	80,416	120,095	-	1,575,362	-
TOTAL	4,251,762	-	4,490,762	-	3,083,678	216,320	334,859	-	4,490,762	239,000

# PROJECT CONTINGENCY DRAWDOWN



#### 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 \$1,296,687 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 is shown in the table below:

PROJECT CONTINGENCY DRAW					
	Original	Drawdown	Drawdown	Drawdown	Remaining
	Contingency	Previous	this quarter	To-Date	Contingency
Unallocated Contingency	173,500,000	(8,655,000)	-	(8,655,000)	164,845,000
Allocated Contingency	40,366,792	(56,891)	(1,296,687)	(1,353,578)	39,013,214
Total Contingency	213.866.792	(8.711.891)	(1.296.687)	(10.008.578)	203.858.214

# **DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS**

## Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

• DBE Goal – Design 20.40%

• Current DBE Commitment \$18,420,282 (20.34%)

Current DBE Participation \$ 4,294,213 (13.87%)

Twenty (20) Design subcontractors have been identified to-date

• DBE Goal – Construction 20%

• Current DBE Commitment \$73,429,116 (6.27%)

Current DBE Participation \$ 6,386,761 (4.45%)

• Thirty (30) Construction subcontractors have been identified to-date.

# PROJECT LABOR AGREEMENTS (PLA) STATUS

#### Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reporting Data as of May 17, 2014)

Targeted Worker Goal – 40.00%

Targeted Worker Current Participation - 69.40%

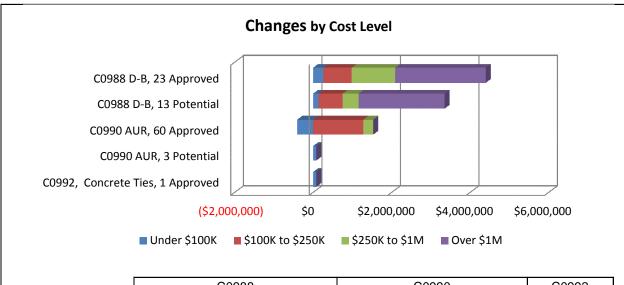
Apprentice Worker Goal - 20.00%

Apprentice Worker Current Participation - 12.09%

Disadvantaged Worker Goal - 10.00%

Disadvantaged Worker Current Participation 17.75%

#### **SUMMARY OF CHANGES**



		C0	988		C0990		С	C0992		
	23	Approved	13	3 Potential	60	Approved	3 P	otential	1 Ap	proved
Under \$100K	\$	260,205	\$	140,000	\$	(403,399)	\$	82,000	\$	81,738
\$100k to \$250K	\$	722,396	\$	612,634	\$	1,280,184	\$	1	\$	-
\$250K to \$1M	\$	1,108,294	\$	408,870	\$	251,864	\$		\$	
Over \$1M	\$	2,310,000	\$	2,187,966	\$	-	\$	1	\$	-
Total	\$	4,400,895	\$	3,349,471	\$	1,128,649	\$	82,000	\$	81,738
% of Contract		0.35%		0.26%		14.42%		1.05%		3.78%

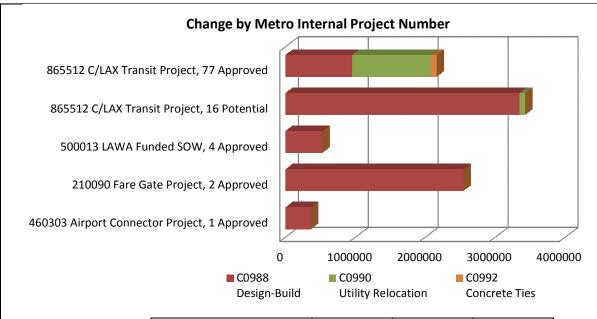
Percent of Contract equals the total Change value divided by the Contract Award amount

Twenty-three (23) changes with a total value of 4.4 million have been approved since execution of Contract C0988. The project team has identified and is evaluating an additional thirteen (13) potential changes to the contract with a potential total value of \$3.35 million.

Sixty (60) changes with a total value of 1.1 million have been approved since execution of Contract C0990. The project team has identified and is evaluating an additional three (3) potential changes with a potential total value of \$82,000. There is also three (3) claims with a potential total value of 0.8 million submitted by the contractor.

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

# **SUMMARY OF CHANGES**



	865	512	500013	210090	460303
	Approved	Potential	Approved	Approved	Approved
C0988	16	13	4	2	1
C0998 \$	\$ 954,279	\$ 3,349,471	\$ 531,216	\$ 2,549,000	\$ 366,400
C0990	60	3	0	0	0
C0990 \$	\$ 1,128,649	\$ 82,000	\$ -	\$ -	\$ -
C0992	1	0	0	0	0
C0992 \$	\$ -	\$ -	\$ -	\$ -	\$ -
Total	77	16	4	2	1
Total \$	\$ 2,082,928	\$ 3,431,471	\$ 531,216	\$ 2,549,000	\$ 366,400

Seventy-seven (77) changes with a total value of \$2.08 million have been approved and sixteen (16) potential changes have been identified with a potential total value of \$3.43 million for Project 865512 Crenshaw/LAX Transit Project.

Four (4) changes with a total value of 0.53 million have been approved for Project 500013 Crenshaw/LAX LAWA Scope of Work. Two (2) changes with a value of 2.55 million have been approved for Project 210090 Fare Gate Project. One (1) change with a value of 0.37 million has been approved for Project 460303 Airport Connector Project.

# **FINANCIAL/GRANT STATUS**

\$ in millions
----------------

\$ in millions			_						
	(A)	(B)	(C)	(D)	(D/B)	(E)	(E/B)	(F)	(F/B)
SOLDCE	ORIGINAL	TOTAL	TOTAL	COMMITMENTS		EXPENDITURES		BILLED to FUNDING	
SOURCE	BUDGET	FUNDS	FUNDS	\$	%	\$	%	\$	SOURCE %
		ANTICIPATED	AVAILABLE	Φ	70	Φ	70	Ф	70
FEDERAL-OWAQ	68.2	54.0	0.0	54.0	100%	0.0	0%	0.0	0%
FEDERAL - SECTION 5309 BUS CAPT	8.6	8.6	8.6	8.6	100%	7.4	86%	7.4	86%
FEDERAL-REGIONAL STP	20.0	48.2	0.0	48.2	100%	0.0	0%	0.0	0%
FEDERAL ALTERNATIVE ANALYZOO	1.2	1.2	1.2	1.2	100%	1.2	100%	1.2	100%
FEDERAL - ALTERNATIVE ANALYSIS	1.2	1.2	1.2	1.2	100%	1.2	100%	1.2	100%
FEDERAL-TIGER II	0.0	13.9	13.9	13.9	100%	13.9	100%	13.9	100%
TEST TO THE THE	0.0	10.0	10.0	10.0	10070	10.0	10070	10.0	10070
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	2.2	100%	2.2	100%	2.2	100%
STATE PPM	0.178	0.178	0.178	0.178	100%	0.178	100%	0.178	100%
	004.0	201.0	400.0	2004.0	40007	447.0	<b></b> (	444.0	FF0/
STATE PROP 1B PTMSEA	201.2	201.2	122.3	201.2	100%	117.0	58%	111.3	55%
STATE PROP 1 B LOCAL PARTNER PROG	0.0	49.5	49.5	49.5	100%	49.5	100%	49.5	100%
STATE FROM TO LOCAL PARTINER FROM	0.0	70.0	70.0	-10.0	10070	-0.0	10070	70.0	10070
MEASURE R-TIFIA LOAN	545.9	545.9	545.9	545.9	100%	0.0	0%	0.0	0%
MEASURER	661.1	661.1	347.1	653.1	99%	229.8	35%	229.8	35%
OTHER FUNDS*	52.4	187.5	0.0	0.0	0%	0.0	0%	0.0	0%
	4.40.0	400.0	0.0	0.4	<b>~</b> /	0.4	<b>~</b> /	0.4	<b>60</b> 7
PROP C 25% HIGHWAY	148.9	189.6	3.8	3.4	2%	3.4	2%	3.4	2%
PROPIC 40% DISCRETIONARY	0.0	10.2	0.0	0.0	0%	0.0	0%	0.0	0%
THO CHU/OLIGORETICIANT	0.0	10.2	0.0	0.0	U/q	0.0	U/0	0.0	0/0
PROP A 35% RAIL CAPITAL	4.8	50.4	4.9	4.9	0%	4.9	0%	4.9	10%
	0	23			- / ]		-,0		
TOTAL	1,749.0	2,058.0	1,099.6	1,620.7	78.8%	429.5	20.9%	423.8	20.6%

NOTE: Expenditures are cumulative through June 2014.

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

Total Funds Anticipated based on Board approved June 2013 Revised Funding

<sup>\*</sup> Other funds include: Local Agency Funds (\$107.470), CNG 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 approval is expected by September 2014.* 

**FEDERAL** – **RSTP**: 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 approval is expected by September 2014.

**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.* 

**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 current financial plan is to drawdown funds not prior than FY16.

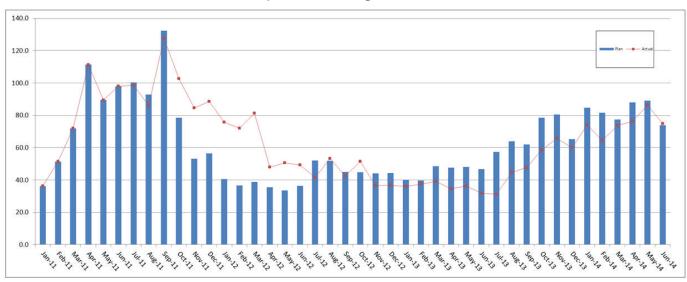
**MEASURE R:** \$53.4M has been allocated to the project based on the January 2012 Funding Plan. Funds are available for drawdown. An additional \$293.7M for FY13 has been allocated to the project based on the proposed May 2012 Measure R Extension Long Range Plan.

**PROP C 25% HIGHWAY:** \$3.8M has been allocated to the project based on the January 2012 Funding Plan. Funds are available for drawdown.

**PROP A 35% RAIL CAPITAL:** Based on November 2011 Long Range Transportation Plan, \$4.8 M of Proposition A 35% Rail Capital was allocated in FY2012 for the project.

# **STAFFING STATUS**

# Total Project Staffing - FTES



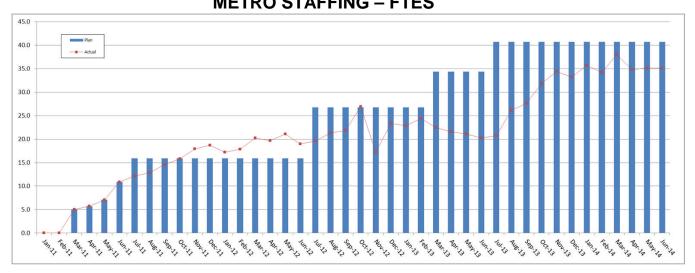
#### Notes:

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

### **TOTAL PROJECT STAFFING**

For June 2014, there were a total of 35.1 FTE's for MTA's Project Administration staff and 39.8 FTE's for consulting staff. The total project staffing was 74.9 FTE's for June 2014. The overall FY14 Total Project Staffing plan averages 75.1 FTE's per month.

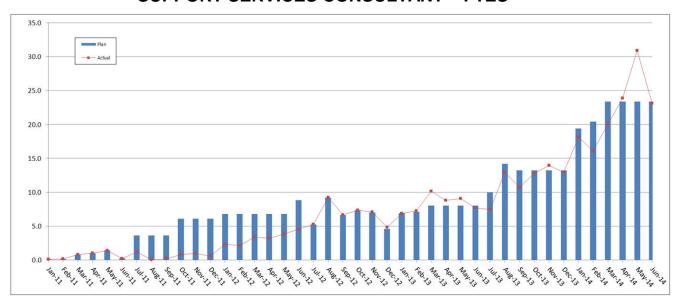
# STAFFING STATUS (Continued) METRO STAFFING – FTES



#### Notes:

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

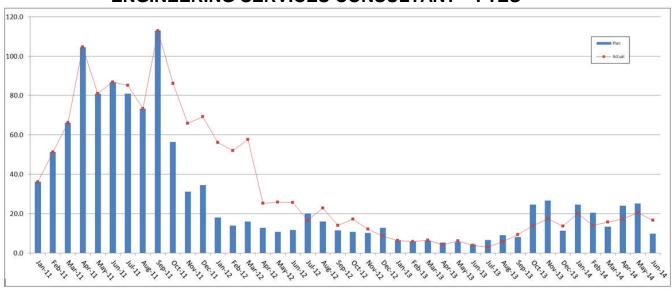
# CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT – FTES



#### Notes:

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

# **REAL ESTATE STATUS**

Contract No.	Number of Parcels	Certified	Decertified	Appraisals Complete	Offers Made	Agreements Signed	Condemnations Filed	Relocations Complete	Parcels Available to WSCC
C0988 C/LAX Transit C	orridor (D-B):	!							
Crenshaw Subdivision			T		1	I		1	
Full Takes	12	12		12	12	7	5	10	10
Part Takes (PT or SE)	10	9	1	9	9	1			1
TCE	10	10		10	10				
Subtotal Parcels	32	31	1	31	31	8	5	10	11
Harbor Subdivision									
Full Takes	14	14		15	15	8	7	12	13
Part Takes (PT or SE)	19	18	1	18	18	1			1
TCE	3	2	1	2	2	1			
Subtotal Parcels	36	34	2	34	34	10	7	12	14
Total CR/HS Parcels:	68	65	3	65	64	18	12	22	25
Southwestern Yard									
Full Takes	8	8		8	8	3	5	4	6
Part Takes	0								
TCE	0								
Subtotal Parcels:	8	8	0	8	8		5	4	6
Total SW Parcels:	8	8	0	8	8	3	5	4	6
C0990 C/LAX Advance	Utility Reloca	ations:	·	·		·		·	
Total Parcels:	0								
Total Project Parcels	76	*73	3	74	73	21	17	26	31

- **74** acquisitions: \***73** planned for in the environmental report +**1** full take for the Harbor Subdivision that was not certified.
- 74 appraisals completed.
- **73** offers made to property owners. **1** part take offer in Harbor Subdivision pending.
- 34 parcels acquired: 29 full takes and 2 part takes provided to WSCC; 2 full takes and 1 Temporary Construction Easement (TCE) have been acquired but are not available for WSCC use until 07/11/14.

# Reported as of June 30, 2014

## **QUALITY ASSURANCE STATUS**

### C0988 Crenshaw/LAX Transit Corridor Design-Build Contract

- Metro Quality continues daily field site visits to monitor:
  - Welding in Expo Yard
  - o BNSF pole and line removal
  - o Demolition
  - o CSM Pile/Panel placement
  - o Sanitary sewer relocation work
- Surveillance reports are on file.
- Metro Quality attended Readiness Review Meetings for Harbor Subdivision Area demolition and removal of electrical ductbanks and vaults.
- Fabrication of CSM piles and nondestructive examination of pile splicing by WSCC continues. Metro performed verification Non-Destructive Examination (NDE) on 10% of piles to date.

### **C0990 Advanced Utility Relocations**

 Quality attended Weekly Construction Progress Meeting and assisted contractor, Metro Builders, on quality-related issues.

### **C0992 Concrete Rail Ties**

 Concrete ties deliveries continued with two "sticks" found damaged. Documentation has been submitted to Metro and coordination with the manufacturer is ongoing to resolve this issue.

## **ENVIRONMENTAL STATUS**

## C0988 Crenshaw/LAX Transit Corridor Design Build

- Reviewed and commented on the following Contractor Submittals:
  - Noise Control Plan of Century Bridge Demolition
  - o Revised Noise Control Plan for MLK Station
  - Green Construction Plan and Monthly Report
  - o Sustainability Plan Monthly Reports
  - Weekly Biological Nesting Bird Survey Reports
  - o Weekly Storm Water Pollution Prevent Plan (SWPPP) inspection reports,
  - Weekly Fugitive Dust Inspection Reports
  - Weekly Noise Monitoring Reports, and
  - Various Construction Work Plans
- Completed Second Quarter Mitigation Measure Status Report. Continue to document compliance with the Project Mitigation Monitoring and Reporting Plan (MMRP).
- Completed hazardous waste abatement at the La Brea Station (Parcels HS-2101 through HS-2104 and HS-2201 through HS-2206). Completed additional hazardous waste surveys for Century Bridge and Parcels CR-3701, CR-3801, CR-3802, HS-2702, and SW-0004).
- Submitted application for a South Coast Air Quality Management District (SCAQMD)
   Site-Specific Rule 1166 Permit for the management of Volatile Organic Compound
   (VOC) impacted soil.
- Completed sampling/ analysis of existing ballast for the former BNSF railroad along Metro ROW.
- Contractor is conducting additional soil and groundwater investigations at the Expo Station, Martin Luther King Station, Vernon Station and along Harbor Subdivision to identify potential areas of soil and groundwater contamination.
- Contractor encountered approximately 29 cubic yards of petroleum hydrocarbon impacted soil during the removal of the abandoned oil pipeline at the Martin Luther King Station.
- Coordinated Archaeological, Paleontological, and Native American Monitoring. State Historic Preservation Officer (SHPO) approved the Cultural Resources Monitoring and Mitigation Plan (CRMMP) and Paleontological Monitoring and Mitigation Plan (PMMP).
- Attended Contractor Weekly Progress meetings, Environmental Task-Force Meetings and various over-the-shoulder submittal meetings with Contractor.

### **C0990 Advanced Utilities Contract**

- Coordinated monitoring for Archaeological Monitoring.
- Coordinated Storm Water Pollution Prevention Plan (SWPPP) Inspections.
- Coordinated noise monitoring for night-time advanced utility work.

## **CONSTRUCTION RELATIONS STATUS**

- Partnered with the LAX/Coastal Chamber of Commerce to brief businesses located near LAX on the Century Bridge demolition (scheduled for July 25<sup>th</sup>).
- Provided a project briefing to the Consolidated Realty Board.
- Visited with students from Westchester High School to talk about careers in construction.
- Hosted a bi-monthly Community Construction Update Meeting in Inglewood.
- Promoted the Project at a Crenshaw Chamber of Commerce Meeting with Mayor Garcetti.
- Provided construction updates to Council District 8 (Parks) and to the L.A. Economic and Workforce Development Department (Perry).
- Briefed the SB Cities Service Council on construction activities.
- Briefed businesses and residents around the Martin Luther King and Expo Station areas on traffic reconfiguration plans.
- Briefed KJLH radio station on the project and upcoming events.
- Hosted Transit Oriented Development discussion group (CLC POD) to provide information about policies and planning.

## **CREATIVE SERVICES STATUS**

## Systemwide Design and Art Program

Continued to support mitigation efforts.

## **SAFETY & SECURITY STATUS**

- Participated in weekly progress meetings with Construction Manager and Contractor Management to discuss safety/security related issues and construction schedules.
- Monitored construction activities on a daily basis including night construction activities to ensure compliance with contract specifications.
- Reviewed contractor safety submittals and construction work plans to ensure compliance with contract specifications.
- Conducted All-Hands Monthly Safety/Security Meeting with WCC's Construction Safety personnel and LAPD representatives.
- Participated in Underground Reclassification Meeting with WSCC and Cal/OSHA Mining and Tunneling.
- Metro Builders reported 3,752 work hours and no incidents. WSCC reported 54,417 work hours and one incident for the month of June 2014. Total Project-to-Date work hours are 356,923 and four recordable incidents. The incident rate for the project is 2.2. The national recordable rate average 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	10/14	N/A	Executed Letter of Agreement April 2012. <i>Metro working on outstanding issues.</i>
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 complete by DWP-Water for advance relocation of eleven (11) 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 in progress, to complete early Oct. 2014.
  - Crenshaw @ 60<sup>th</sup> St. relocation to start Sept. 2<sup>nd</sup> and complete by end of Dec. 2014.
  - Crenshaw @ 63<sup>rd</sup> St. relocation to start Sept. 22<sup>nd</sup> and complete by end of Dec. 2014
  - Crenshaw @ Hyde Park St. relocation to start Nov. 10<sup>th</sup> and complete by end of Dec. 2014.
- Design is complete by SCE for advance relocation of fiber crossings and pole supports along the Harbor Subdivision. Construction completion expected by July 2014.
- Design is complete by SCE for the advance relocation of power crossings and pole supports on Redondo Blvd. at High St. Construction completion expected by July 2014.

# **Crenshaw/LAX Transit Project**

Peak Hour & Nightime Construction Variances for the City of LA





## **CPUC CROSSING SUMMARY**

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
711212000	Tiigh Glock	Grade crossing	iligio#000
A1212029	Arbor Vitae Street	Grade Crossing	Inglewood
A1212029	Hindry Avenue	Grade Crossing	Inglewood
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

<sup>=</sup> Highlighted grade crossing/grade separations have been approved.

## **CPUC CROSSING SUMMARY (Continued)**

Metro filed formal grade applications to CPUC between November 16, 2012 and January 23, 2013. Protests were received on CPUC Application Packages 1 and 4; no protests were received on CPUC Application Packages 2, 3 and 5. Status by CPUC application is below:

# #A1211018 - Package 1, Centinela, Eucalyptus and Pedestrian Underpass West of Eucalyptus

**Status:** The CPUC Administrative Law Judge (ALJ) continues to work on a proposed decision. CPUC has accepted the settlement agreement between Metro and Faithful Central Bible Church regarding Eucalyptus and the pedestrian underpass. The CPUC still needs to issue a decision on the Centinela crossing, the pedestrian underpass and the Eucalyptus crossing. Forecast CPUC Commission Approval: August 14, 2014.

### #A1212030 - Package 2, At-Grade Gated Crossings in Inglewood

**Status:** The CPUC approved Package 5 on April 10, 2014.

### #A1212029 - Package 3, At-Grade Gated Crossings in Inglewood and Los Angeles

**Status:** The CPUC approved Package 3 on April 10, 2014.

### #A1301012 - Package 4, Crenshaw Street-Running Crossings

**Status:** The CPUC Administrative Law Judge (ALJ) continues to work on a proposed decision. *Forecast CPUC Commission Approval: August 14, 2014.* 

### #A1302025 – Package 5, Grade Separated Crossings

The CPUC approved Package 5 on February 27, 2014.

Note: # is the CPUC action number.

# **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)**

	II S IO A D A A A T A A S
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.
December 5, 2013  January 21, 2014	·
,	the procurement of concrete ties and assembly items.  A Groundbreaking Ceremony was held at the Crenshaw/Exposition
January 21, 2014	the procurement of concrete ties and assembly items.  A Groundbreaking Ceremony was held at the Crenshaw/Exposition Station.  The Board awarded Contract C0992A Rail and Bumping Posts to LB

## **CONTRACT C0988 STATUS**

### Crenshaw/LAX Transit Corridor

PE Design Contractor: Hatch Mott MacDonald (HMM)

CM Consultant: Stantec

Contractor: - Walsh Shea Corridor Constructors (WSCC)

### Status as of June 27, 2014

## Progress/Work Completed:

- Submitted Maintenance of Traffic Plans Stage A 85% for Greenline, Vernon and Century demolition, and Stage B.1 60% for Expo, MLK and Vernon.
- Submitted RFC- Special Trackwork 1st Package and Tunnel Segmental
- Submitted Interim Design Composite Utility Rearrangement.
  Complete UG Geotech Data Reports and Design Reports.
- Submitted AG Geotechnical Data Report Segment A, B, &
- Design Confirmation phase is closed except for the Traction Power Load Flow Report and Volume 10 Train Control.
- Submitted interim design Traction Power, OCS, Communication and Train Control.
- Submitted interim design- Aerial Guideway Structure, Bored Tunnel, Underground #1, #3 and #4, Segment A & C Stations.
   Continued Guideway RFC plans for all segment.

### Construction

- Construction

   Completed SOE design for Expo Station and MLK Station.

   Continued with the fabrication of the tunnel boring machine.

   Continued SWPP implementation Segment A, B & C.

   Completed construction for CSM Test Panel work in Expo.

   Commenced construction for CSM in Expo (East Side).

   Completed mobilization at MLK Station.

   Continued utility relocation work at MLK Station.

   Commenced utility relocation work at Expo Station.

   Continued with utility monitoring & CCTV inspection.

   Continued with bird nesting observation.

### Areas of Concern:

Contract No.: C0988

- Board of Public Works' (BPW) notice conditions the tree removal permit upon many requirements and conditions that are outside the scope of work for the C0988 Crenshaw/LAX Transit Corridor Project.
- Submittal to the City of LA for a full street closure to maximize CSM production at Expo and MLK.

### Schedule Assessment:

Metro's assessment of the contractor's schedule update is that they are behind on meeting interim design milestones.

Contractor's Jun 2014 schedule update indicates Milestone 1 - Contract Substantial Completion is 105 calendar days behind.

**Cost Assessment:**The current construction contract cost forecast is \$1,276.93 million and is within the Board authorized budget.

The Contractor submitted their 9th payment application in the approved amount of \$9,993,632.37.

### Schedule Summary:

1. Date of Award:	08/01/13
2. Notice to Proceed:	09/10/13
3. Original Substantial Completion Duration:	1824
4. Current Substantial Completion Duration:	1824
5 Flansed Time from NTP	290

### \$ In millions Cost Summary:

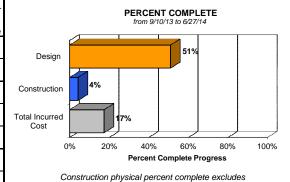
1.	Award Value:	1,272.63
2.	Executed Modifications:	4.30

3. Approved Change Orders:

4. Current Contract Value (1 + 2 + 3): 1,276.93

5. Incurred Cost: 221.80

Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance
Milestone 1 - Contract Substantial Completion	09/08/18	09/08/18	12/23/18	-105
Milestone 2 - UFS Completion	03/09/18	03/09/18	05/16/18	-67
Milestone 3 - Commence SIT Phase I	06/09/18	06/09/18	06/26/18	-17
Milestone 4 - Const./Turnover Parcels SW-0101, 0102, 0103	12/04/15	12/04/15	11/03/15	31
Milestone 5 - Const./Turnover Parcels SW-0002, 0003, 0004, 0104	06/05/17	06/05/17	05/10/17	26
Milestone 6 - Const./Turnover Parcels SW-0001	08/01/17	08/01/17	06/28/17	34



mobilization and general requirements

## **CONTRACT C0990 STATUS**

### Crenshaw/LAX Advanced Utility Relocations

PE Design Contractor: Hatch Mott MacDonald (HMM)

**CM Consultant: Stantec** 

Contractor: - Metro Builders and Engineers Group LTD

### Contract No.: C0990

Status as of June 27, 2014



\$ In millions

### Progress/Work Completed:

- Completed jack and bore work & continued manhole constriction and sewer connection at 59th Street.
- Completed LADWP water crossing work at Crenshaw & Slauson.
- Continued LADWP waterline change order work on Crenshaw & 54th and

### Areas of Concern:

 Design changes and Hot Tap Sleeve submittal processed by DWP impacted the water shutdown on Crenshaw & 54th.

### Schedule Assessment:

The forecast dates for Contract Milestones shown in the table below are based on the contractor's June 2014 Schedule Update.

Metro has agreed to grant a total of 103 calendar day time extension as a result of lost production due to sandy soil conditions and revised installation methodology for sewer line work at 59th & Crenshaw, and traffic control and work hour restriction to 67th & Crenshaw. There are additional 21 day time extension modification due to the peak hour restriction and revised installation method pending to be approved.

The Contractor continues to be behind the scheduled completion date due to the issues for jack and bore at 59th Street and design changes and Hot Tap Sleeve submittal at Crenshaw & 54th as noted in the area of concerns.

Metro's assessment of the contractor's forecast completion date shown in the table below (and projected current cash flow burn rates) is a potential completion of July 31, 2014.

### Cost Assessment:

The current construction contract cost forecast is \$8.95 million and within the Board authorized budget. The forecast has increased from the previous reporting period primarily due to approved change orders.

The Contractor submitted their 20th payment application in the approved amount of \$314,727.67

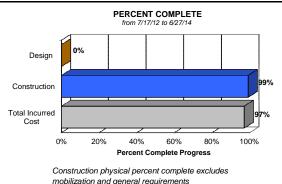
Increase in costs to the construction contract award value are a result of design enhancements and change orders.

### Schedule Summary: 1 Date of Award:

1. Date of Award:	05/30/12
2. Notice to Proceed:	07/17/12
3. Original Substantial Completion Duration:	365
4. Current Substantial Completion Duration:	468
5. Elapsed Time from NTP:	710

Cost Summary: 1. Award Value: 7.83 2. Executed Modifications: 0.75 3. Approved Change Orders: 0.37 4. Current Contract Value (1 + 2 + 3): 8.95 5. Incurred Cost: 8.68

Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance
Milestone 1 - Contract Substantial Completion	07/17/13	10/28/13	07/31/14	-276



## **CONTRACT C0991 STATUS**

## Southwestern Yard

PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: - TBD					Contract No.: C0991 Status as of June 27, 2014
Progress/Work Completed: - Metro continue preparation of a bid advertisement in August 2014.	solicitation	package to	a planned		Areas of Concern: - None.
Schedule Assessment:					Cost Assessment:
Schedule Summary:  1. Date of Award: 2. Notice to Proceed: 3. Original Substantial Completion I 4. Current Substantial Completion I 5. Elapsed Time from NTP:					Cost Summary: \$ In millions  1. Award Value: 2. Executed Modifications: 3. Approved Change Orders: 4. Current Contract Value (1 + 2 + 3): 5. Incurred Cost:
Milestones	Original Contract	Current	Forecast	Calendar Day Variance  0  0  0  0  0  0  0	PERCENT COMPLETE fromto  Design  O%  O%  O%  O%  40%  Percent Complete Progress
					Construction physical percent complete excludes mobilization and general requirements

## **CONTRACT C0992 STATUS**

**Concrete Ties** 

PE Design Contractor: Hatch Mott MacDonald (HMM) CM Consultant: Stantec Contractor: Rocla Concrete Tie Inc.					Contract No.: C0992 Status as of June 27, 2014		
Progress/Work Completed: -18,048 ties out of a total 19,926 ties have been shipped from factoryAs of June 2014, 7,656 ties have been received onsite by the design-builder (Contract C0988).					Areas of Concern: - None.		
Schedule Assessment:  Metro's assessment of the vendor's delivery schedule is that they are still on schedule in regard to Contract Milestones.				still on	Cost Assessment: The current contract cost forecast is \$2,161,297. The Contractor submitted seven invoices with a total amount of \$960,390.16 in Jun 2014.		
Schedule Summary:					Cost Summary: \$ In millions		
Date of Award:			12/10/13	;	1. Award Value: 2.1		
Notice to Proceed:			12/23/13	;	Executed Modifications:		
Original Substantial Completion	Duration:		220	)	Approved Change Orders:		
Current Substantial Completion			220	)	4. Current Contract Value (1 + 2 + 3): - 2.1		
Elapsed Time from NTP:	Suration.		186	i	5. Incurred Cost: 2.0		
Milestones	Original Contract	Current Contract	Forecast	Calendar Day Variance	PERCENT COMPLETE from 12/23/2013 to 6/27/14		
Milestone 1 - Contract Substantial	07/31/14	07/31/14	07/31/14	0			
Conmpletion				0	Design 0%		
				0	Construction 94%		
				0	Construction		
				0	Total Incurred 94%		
				0	Cost		
					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

PE Design Contractor: Hatch Mott MacDonald (HMM) Contract No.: C0992A **CM Consultant: Stantec** Contractor: LB Foster Rail Technology Corp Status as of June 27, 2014 Areas of Concern: Progress/Work Completed: - Rolling of the 115RE SS rail at the SDI rail facility began on 4/20/2014. None. - A total of 1,247.18 net ton 115RE SS Blank Stick Rail has been delivered. All 115RE SS rails are expected to be shipped to the job-sites by July 2014. - A total of 1,617.08 NT 115RE HH rail have been shipped from the Evraz Rail Mill. The current plan is to begin trucking over the remaining 115RE HH Rails to the Metro job-sites beginning in mid July 2014 and complete deliveries in mid August 2014. **Schedule Assessment:** Cost Assessment: Metro's assessment of the vendor's delivery schedule is that the running rails The current contract cost forecast is \$5,184,044.79 are still on schedule to complete deliveries to the job-sites by the end of August 2014. The Contractor submitted two invoices for a total amount of \$1,998,745.83 in June 2014. 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 Schedule Summary: Cost Summary: \$ In millions 01/23/14 5.2 1. Date of Award: 1. Award Value: 03/07/14 2. Notice to Proceed: 2. Executed Modifications: 3. Original Substantial Completion Duration: 3. Approved Change Orders: 300 52 4. Current Substantial Completion Duration: 558 4. Current Contract Value (1 + 2 + 3): 2.0 5. Incurred Cost: 5. Elapsed Time from NTP: 112 Calenda PERCENT COMPLETE Original Current Milestones Contract Contract Forecast Variance Milestone 1 - Contract Substantial 12/31/14 09/15/15 09/15/15 0 Completion Design 0 Construction 0 0 Total Incurred Cost 0 20% 30% 40% Percent Complete Progress 0 Construction physical percent complete excludes

## **CONSTRUCTION PHOTOGRAPHS**



Lowering beam at pile located between MLK and Stocker.



.Pre-drilling holes for soil mixing at the Exposition Station Yard.

## **CONSTRUCTION PHOTOGRAPHS**



Cutter soil mixing equipment at the Exposition Station Yard.

## **COST AND BUDGET TERMINOLOGY**

**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 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 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.

## LIST OF ACRONYMS

ACE Advanced Conceptual Engineering Americans with Disabilities Act ADA ADR Alternative Dispute Resolution Administrative Law Judge ALJ **AMC** Airport Metro Connector APM **Automated People Mover** Alternative Technical Concept ATC **ATC** Automatic Train Control

ATSAC Automated Traffic Surveillance and Control

**BAFO** Best and Final Offer

BID **Business Improvement Development** 

**Building Information Modeling** BIM

**BNSF** Burlington Northern Santa Fe Railway Company

**BOC Bus Operations Control** 

**CADD** Computer Aided Drafting and Design **CALTRANS** California Department of Transportation **CARB** California Air Resources Control Board

CCTV Closed Circuit Television

CD Calendar Day CD **Council District** 

**CDRL** Contract Data Requirement List

Categorical Exemption CE

CEQA California Environmental Quality Act

CFR Code of Federal Regulations CM **Construction Manager** 

CMAQ Congestion Mitigation and Air Quality Improvement Program

CN Change Notice CO Change Order CPM

Critical Path Method

**CPUC** California Public Utilities Commission

CR Camera Ready

**CRMMP** Cultural Resources Monitoring and Mitigation Plan

**Cutter Soil Mixing** CSM

**CSPP** Construction Safety Phasing Plan California Transportation Commission CTC

CUD Contract Unit Description **CWP** Construction Work Plan

DB Design Build DBB Design Bid Build

DBE Disadvantaged Business Enterprise

DOT Department of Transportation

DRB Dispute Review Board

**DWP** Department of Water and Power

## LIST OF ACRONYMS (Continued)

**EEO Equal Employment Opportunity** EIR **Environmental Impact Report EIS Environmental Impact Statement** Earth Pressure Balance Machine **EPBM** FAA Federal Aviation Administration FAR Federal Acquisition Regulation Factory Acceptance Testing FAT **FCBC** Faith Central Bible Church

FD Final Design

FEIR Final Environmental Impact Report
FEIS Final Environmental Impact Statement
FEMA Federal Emergency Management Agency

FFGA Full Funding Grant Agreement

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

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 IFB Invitation for Bid

IPMO Integrated Project Management Office ITF Intermodal Transportation Facility

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
LNTP Limited Notice To Proceed

LOA Letter of Agreement LONP Letter Of No Prejudice

LOP Life-of-Project

## LIST OF ACRONYMS (Continued)

LPA Locally Preferred Alternative

LRT Light Rail Transit

LRTP Long Range Transportation Plan

LRV Light Rail Vehicle

MBE Metro Builders and Engineers Group, Ltd

MCA Master Cooperative Agreement

MIC Microbiologically Influenced Corrosion Control System

MIS Major Investment Study Memorandum of Agreement MOA MOS Minimum Operating Segment Memorandum of Understanding MOU MPS Master Program Schedule **MPSR** Monthly Project Status Report **MSDS** Material Safety Data Sheet MSF Maintenance & Storage Facility

N/A Not Applicable

NEPA National Environmental Protection Act NFPA National Fire Protection Association

NOD Notice of Determination

NPDES National Pollution Discharge Elimination System

NTE Not to Exceed NTP Notice To Proceed

OCC Operations Control Center
OCS Overhead Catenary System

OSHA Occupational Health and Safety Administration

OTS Over the Shoulder

PA/VMS Public Address/Visual Messaging Sign

PDQM Project Design Quality Manual

PE Preliminary Engineering

PEER Permit Engineering Evaluation Report

PID Photo Ionization Detector
PIP Project Implementation Plan
PLA Project Labor Agreement

PM Project Manager

PMIP Project Management Implementation Plan
PMMP Paleontological Monitoring and Mitigation Plan
PMOC Project Management Oversight Consultant

PMP Project Management Plan P&P Policies & Procedures

POD Project Oriented Discussions
PQPM Project Quality Program Manual

PR Project Report

PSR Project Study Report

## LIST OF ACRONYMS (Continued)

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

REAP Rain Event Action Plans RFC Request For Change

RFMP Rail Fleet Management Plan RFP Request For Proposals RFQ Request For Qualifications 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

RTIP Regional Transportation Improvement Program

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 SP Special Provision

SPAS Specific Plan Amendment Study SPP Special Permitting Process

SSMP Safety and Security Management Plan

STB Surface Transportation Board

STIP State Transportation Improvement Program

STP Surface Transportation Program

## LIST OF ACRONYMS (Continued)

STV STV Group

SWPP Storm Water Prevention Plan SWY Southwestern Yard (Division 16) TOD Transit Oriented Development TPSS Traction Power Substation

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

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

TOD Transit Oriented Development 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

WSCC Walsh/Shea Corridor Constructor

YOE Year of Expenditure