Crenshaw/LAX Transit Project



CRENSHAW/LAX TRANSIT PROJECT

MONTHLY PROJECT STATUS REPORT

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MAY 2015

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PROJECT SUMMARY

LOCATION: Crenshaw B DESIGN/CONSULTANT:	•		Line	CONSTRUCTION MANAGE CONTRACTOR: Walsh-Sh					
PROJECT PHOTO: Clea Guideway Installation at Redondo.		-		WORK COMPLETED PAST MONTH:					
				 o WSCC continued final designers of WSCC continued pile installing with the owners of the text of tex of text of tex of text of text of text of text of text of text	lation for UG t piles at Cer Ave bridge ab tallation at U Illation at Ver oport in place on box at MLI ccavation to 2	ntury Station outment wo G#4 on Cre mon Station ounder stre K Station. 2nd tier leve	n Bridge. rk. enshaw Blvd. n. et decking and el at Expo Station.		
EXPENDITURE STATUS				SCHEDULE ASSESSMENT	-				
(\$ In Millions)	CURRENT	EXPENDED	PERCENT	MAJOR SCHEDULE	PRIOR	CURRENT			
ACTIVITIES	BUDGET	AMOUNT	EXPENDED	ACTIVITIES	PLAN	PLAN	VARIANCE WEEKS		
				Environmental					
DESIGN	\$ 136.7	\$ 103.9	76.0%	FEIS/FEIR	Sep-11	Sep-11	Complete		
	¢	φ	1 010 /0	Record of Decision	Dec-11	•	Complete		
RIGHT-OF-WAY	\$ 127.4	\$ 108.8	85.4%				· · · · · · · ·		
	ψ 121.1	φ 100.0	00.170	Design					
CONSTRUCTION	\$ 1,353.1	\$ 341.8	25.3%	Preliminary Engineering	Nov-11	Nov-11	Complete		
				Final Design	Sep-15	Nov-15	2.9 months behind		
OTHER	\$ 440.8	\$ 110.1	25.0%				<u>.</u>		
				Right-of-Way					
TOTAL	\$ 2,058.0		32.3%	Full-take parcels available	Jan-15		Complete		
Note: cost expended as o	r May 30, 2015).		Part-take and TCE parcels	Sep-15	Sep-15	On schedule		
				Construction					
AREAS OF CONCERN				D-B Notice to Proceed	Sep-13	Sep-13	Complete		
o Third party relocations p	rior to docian k	uildor's constr	uction	D-B Substantial Complete	Oct-18	Feb-19	4.2 months behind		
o Design-builder's ability to				Revenue Service Date	Oct-19	Oct-19	On schedule [*]		
o Design-builder's schedu efforts. o Timely review of WSCC o LAWA's work windows f o New proposed 96th stre o Execution of Agreement	's design subm or design-build et station cost/	ittals by City of er near LAX. schedule impa	Los Angeles.	The D-B Substantial Complete pr contract modification in March 20 *Note: Current Revenue Service	15.	·			
ROW ACQUISITION	PLAN	ACQUIRED	REMAINING	CRITICAL ACTIVITIES / 3 N	IONTH LOO	K AHEAD			
FULL TAKES	35	35	0	 o WSCC continue excavation to 2nd tier level at Expo Station. o WSCC continue station box excavation at MLK Station. o WSCC commence decking operation at Vernon Station. o WSCC continue working on Century, Imperial, La Brea and Manchester aerial structures. 					
PARTIAL TAKES	27	15	12	o WSCC commence pile insta o WSCC commence pile insta	allation at I-4 allation for U	G#3 on Cre			
	27 12	15 8	12 4	o WSCC commence pile insta	allation at I-4 allation for U lation for UG	G#3 on Cre #1 near air	oort runway.		

PROJECT OVERVIEW

Major Contract Procurement

Metro advertised the Southwestern Yard (Division 16) design-build contract on August 29, 2014. For this two-step procurement, both Step One Technical Bid and Step Two Price Bid were received on January 22, 2015. The price bids were opened on March 25, 2015. *The recommendation for award was approved by the Metro Board on May 28, 2015.* Notice to proceed is forecast for end of June 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. *Metro anticipates that the next step in resolving outstanding claims issues may be seeking mediation with the contractor.*

Design- Build Contract C0988 – The design-builder, Walsh-Shea Corridor Constructors (WSCC) continues final design with preparation of required contract submittals. The designer is completing design for the most critical items that support the commencement of construction in the various areas of the project. Construction efforts by the design-builder continued along all major areas.

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 58 parcels acquired through May 2015.* Thirty-five full takes and 23 part takes/ temporary construction easements have been provided to design-builder WSCC.

Metro has acquired all full takes required for the construction of the Project. Focus now is on completing the acquisition of part-takes and entering into agreements for temporary construction easements that are required for the Project. As the design-builder continues design, they have identified some additional TCE's and partial takes that may be required. Metro will work with the design-builder regarding any additional parcel acquisitions that may be required. These additional parcels may be required for street restoration or other non-critical scope of work.

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

PROJECT OVERVIEW (Continued)

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 2013.*

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 Board during May approved an increase in the amount of funding that the Crenshaw/LAX Project is contributing toward the total cost of the Southwestern Yard Project. An additional \$10.8 million is required to be funded by drawdown from the Unallocated Contingency Current Budget SCC 90 and added to the Southwestern Yard Current Budget SCC 30. 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 revised to \$150.2 million out of a new total of \$307.2 million adopted by the Board.

The amount of funding available for the Crenshaw/LAX Transit Corridor Project, excluding the Southwestern Yard \$150.2 million allocation and Environmental/Planning budget of \$26.0 million is \$1,881.8 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 79.9%, state funding 8.8% and federal funding 11.3%.

The project commitments thru May 2015 are \$1,684.3 million or 81.9% of the Current Budget. The project expenditures thru May 2015 are \$664.5 million or 32.3% 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

PROJECT OVERVIEW (Continued)

the Southwestern Yard expenditures that are part of the 49% cost allocation share that the Project is responsible for paying for.

The forecast of the available project schedule contingency was increased this month. *This month the design-builder included in their May 2015 Schedule Update narrative an improvement of six calendar days; cumulative 123 calendar days behind schedule.* Metro this month is showing the potential delays as a reduction in the overall project schedule contingency which now has four months of contingency left. Metro continues to meet with the design-builder to discuss the schedule and review any potential mitigation opportunities available to the design-builder to mitigate a projected schedule slippage. *At this early stage of the project there are opportunities to reduce the potential delays.*

A Risk Management Quarterly Progress Report with a status of December 2014 was issued on March 6, 2015. On a monthly basis, the project's risk manager will advise project management of the risk register items mitigation status. The next major risk workshop is planned for the fall 2015. The prerequisites for holding the workshop are: 1) Contract C0988 design-builder to have substantially complete final design, 2) Contract C0991 Southwestern Yard design-builder to have submitted and Metro approve their baseline schedule, and 3) substantial completion of real estate acquisition of part-takes and temporary construction easements.

MANAGEMENT ISSUES

Concern No. 1: Execution of 3% Local Match funding agreement with the City of Inglewood.

Status/Action 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. 2: Timely future reviews of WSCC final design submittals by City of Los Angeles.

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.

Concern No. 3: 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. 4: 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 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.

MANAGEMENT ISSUES (Continued)

Concern No. 5: Design-builders design submittal schedule

Status/Action WSCC continues to submit design submittals later than planned. WSCC is submitting submittals in advance of the construction need date but may potentially be at risk of late design submittals impacting future start of various construction activities. Metro has been working closely with WSCC and the cities to address the submittal schedule changes so as not to impact the project schedule critical path. Metro and the cities have also accelerated submittals specified as critical by WSCC to not impact construction.

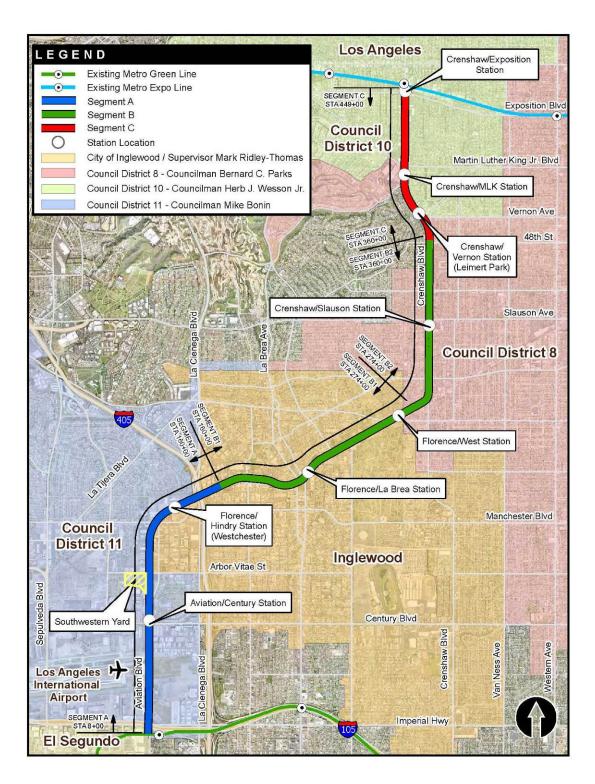
Concern No. 6: Design-builders construction schedule

Status/Action The forecast of the project schedule contingency improved by six days this month. The design-builder included in their May 2015 Schedule Update Narrative a projected savings of six days. Metro continues to meet with the design-builder to discuss the schedule and review any potential mitigation opportunities available to the design-builder to mitigate impact of any schedule slippages addressed in their monthly schedule update. It is still early in the four-year construction period and there are opportunities for the design-builder to reduce the forecast delay of 123 days to completion of the design-builder's contract substantial completion milestone.

Concern No. 7: Cost and schedule impacts on the Crenshaw/LAX Transit Project to accommodate the future Airport Metro Connector Transit Station at 96th Street.

<u>Status/Action</u> In May 2015, the Metro Board approved Design Option 3 implementing changes required to the design-builder's design to accommodate the ultimate track configuration required for the future Airport Metro Connector Transit Station. Metro continues to work with the design-builder to minimize the impact to current design as well as any construction impacts.

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.

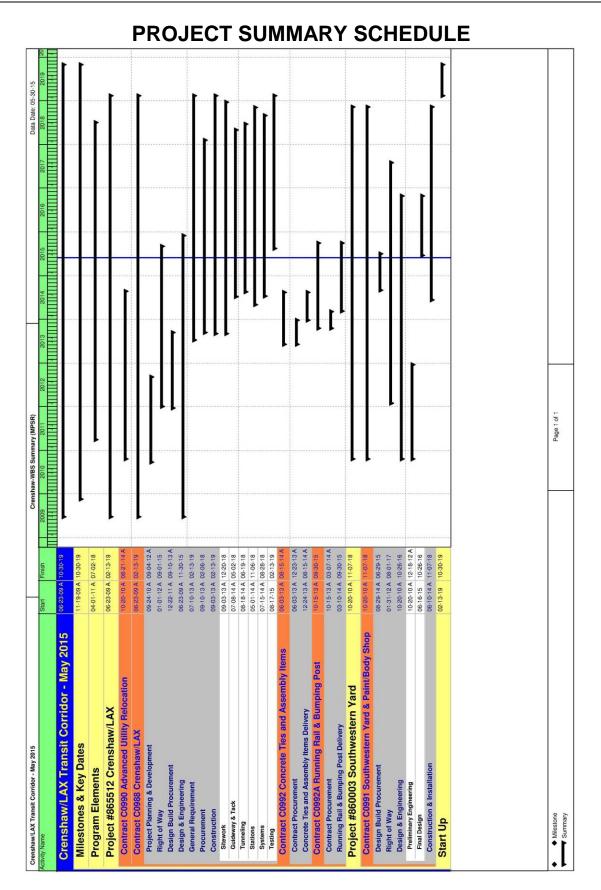
The project delivery method for this contract was bid-build IFB approach.

KEY MILESTONES SIX- MONTH LOOK AHEAD

	Milestone Date	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-1
Contract C0988 Start Manchester Bridge	05/07/15A						
Contract C0988 Submit Final Design - COMM	05/18/15A						
Contract C0988 Submit Final Design - OCS	05/20/15A						
Contract C0988 Submit Final Design - TPSS	05/26/15A						
Contract C0988 Start Soldier Piling - Cut & Cover #4	05/26/15A						
Contract C0988 Submit Final Design - Seg C	05/27/15A						
Contract C0991 Notice of Award	05/28/15A	Ø					
Contract C0988 Start Decking - UG#1 (104th Street)	05/29/15A						
Contract C0988 Submit Final Design - Seg A	06/02/15						
Contract C0988 Start Decking - Vernon	06/07/15						
Contract C0988 Start 111th Street Bridge	06/09/15						
Contract C0988 Submit Approved for Construction - Seg B	06/10/15						
Contract C0988 Start Shoring - Underground Structure #3	06/17/15						
Contract C0988 Start MSE Wall - Aviation / Century Bridge	06/29/15						
Contract C0991 Notice to Proceed	06/29/15						
Contract C0988 Start CIDH Piles - I-405 Bridge	07/07/15						
Contract C0988 Submit Approved for Construction - TPSS	07/09/15						
Contract C0988 Submit Approved for Construction - Seg A	07/22/15						
Contract C0988 Submit Approved for Construction - Seg C	07/28/15						
Contract C0988 Submit Approved for Construction - OCS	08/04/15						
Contract C0988 Submit Approved for Construction - COMM	08/14/15				un Ohn		
Contract C0988 Complete Superstructure - La Brea Bridge	08/27/15						
Contract C0988 Start Florence / Hindry Station	09/10/15					Ê	
Contract C0988 Start Decking - UG #4 Cut & Cover	09/10/15						
Contract C0988 Complete Excavation & Mud Slab - Expo	09/11/15						
Contract C0988 Start Base Invert Slab - Expo	09/17/15					- Êhr	
Contract C0988 Complete Excavation - MLK	09/27/15						
Contract C0988 Complete Excavation - UG#1	10/06/15						
Contract C0988 Start MSE Wall - I-405 Bridge	10/22/15						Ê
Contract C0988 Expo Station Ready for TBM Machine	10/26/15						

"A" following date is actual and completed

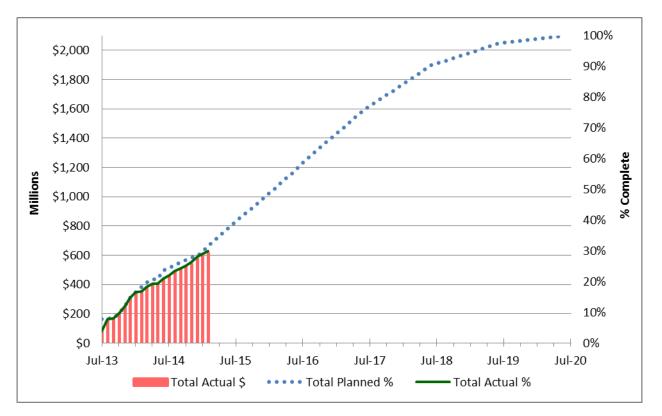
△ Other



May 2015

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	91.3%	2.1%	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	16.2%	1.0%	Behind Schedule
Contract C0990	100%	0%	Substantially Completed
Contract C0991	0%	-	Contract Awarded
			Substantially
Contract C0992	100%	0%	Completed
Contract C0992A	100%	7%	Substantially Completed
Contract C0992A	100 /6	1 /0	Completed
Cumulative To Date Progress:	34.1%	1.5%	



OVERALL CONSTRUCTION PROGRESS CURVE STATUS

The above planned progress curve is based on planned expenditures by the design-build contractor in the C0988 baseline schedule and planned expenditures projected by all other Crenshaw/LAX contracts. The actual project expenditures are cumulative through May 29, 2015.

The cumulative overall project expenditures through May 2015 is \$664.5 million, which is 32.3% of the total project adopted budget of \$2,058 million. The planned overall project progress through May 2015 is 33.1%.

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	Apr-15	May-15	Monthly Variance
Submit Final Design Details for TBM	01/03/14	04/01/15A	04/01/15A	
Fabricate & Deliver TBM	09/22/14	11/21/14A	11/21/14A	
Procure & Deliver TBM Rolling Stock & Accessories	06/23/14	03/02/15A	03/02/15A	
TBM SB Tunnel Launch at Expo	04/28/15	01/15/16	01/12/16	3
TBM SB Break through at Vernon	09/17/15	06/06/16	06/01/16	5
TBM NB Tunnel Launch at Expo	10/29/15	07/21/16	07/15/16	6
TBM NB Break through at Vernon	03/21/16	12/07/16	12/02/16	5

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

All required running rail & bumping post have been delivered to the job site as follows:

- SDI 115RE SS Rail Delivery 7/16/2014
- Evraz 115RE HH Rail Delivery 8/11/2014
- Bumping Post Delivery 5/8/2015

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

	00000, EC							
Item	Initiate Procurement	Submittal Needed By	Delivery	Installation Date				
Tunnel Boring Machine	Executed	Complete	Completed	9/1/2015				
Stations- Elevators	Executed	3/25/2015	Pits 10/5/15	Pits 10/5/15				
Stations- Escalators	Selected	5/22/2015	7/1/2016	10/5/2016				
Track- Special Trackwork	Selected	3/21/2015	10/26/2015	11/12/2015				
Track- Restraining Rail and Grade Crossing Ties	4/13/2015	5/1/2015	2/10/2016	4/1/2016				
TPSS- Substation 1	4/8/2015	5/23/2015	4/2/2016	6/1/2016				
TPSS- Substation 2	6/8/2015	7/23/2015	6/2/2016	8/1/2016				
TPSS- Substation 3	8/10/2015	9/24/2015	8/4/2016	10/3/2016				
TPSS- Substation 5	10/8/2015	11/22/2015	10/2/2016	12/1/2016				
TPSS- Substation 6	1/7/2016	2/21/2016	1/1/2017	3/2/2017				
TPSS-Substation 7	3/7/2016	4/21/2016	3/2/2017	5/1/2017				
TPSS- Substation 8	1/7/2016	2/21/2016	1/1/2017	3/2/2017				
TPSS- Substation 9								
	12/9/2016	1/23/2016	12/3/2016	2/1/2017				
Train Houses	3/1/2015	5/30/2015	3/27/2017	5/1/2017				
OCS Poles	3/1/2015	5/30/2015	6/27/2016	8/1/2016				
Traffic Signal Poles	3/15/2015	4/15/2015	8/1/2015	6/1/2015				
LED Lighting Figures	3/15/2015	4/15/2015	8/1/2015	3/1/2016				
Jet Fan- UG3	5/5/2016	4/7/2016	12/31/2016	3/1/2017				
Jet Fan- UG4	11/5/2016	1/4/2017	7/3/2017	9/1/2017				
Artwork- Century	1/6/2016	3/6/2016	9/2/2016	11/1/2016				
Artwork- Hindry	1/6/2016	3/6/2016	9/2/2016	11/1/2016				
Artwork- La Brea	11/6/2015	1/5/2016	7/3/2016	9/1/2016				
Artwork- West	4/7/2016	6/6/2016	12/3/2016	2/1/2017				
Artwork- Slauson	10/5/2016	12/4/2016	6/2/2017	8/1/2017				
Artwork-Vernon Concourse	2/4/2017	4/5/2017	10/2/2017	12/1/2017				
Artwork- Vernon Plaza	10/5/2016	12/4/2016	6/2/2017	8/1/2017				
Artwork- MLK Concourse	2/4/2017	4/5/2017	10/2/2017	12/1/2017				
Artwork- MLK Plaza	4/7/2017	6/6/2017	12/3/2017	2/1/2018				
Artwork- Expo Concourse	7/5/2017	9/3/2017	3/2/2018	5/1/2018				
Artwork- Expo Plaza	7/5/2017	9/3/2017	3/2/2018	5/1/2018				
TVM- Century	N/A	7/5/2015	1/1/2016	3/1/2018				
	N/A N/A							
TVM- Hindry		4/5/2016	10/2/2016	12/1/2016				
TVM- La Brea	N/A	9/3/2016	3/2/2017	5/1/2017				
TVM- West	N/A	7/4/2016	12/31/2016	3/1/2017				
TVM-Slauson	N/A	11/3/2016	5/2/2017	7/1/2017				
TVM- Vernon	N/A	2/3/2017	8/2/2017	10/1/2017				
TVM- MLK	N/A	3/6/2017	9/2/2017	11/1/2017				
TVM- Expo	N/A	5/6/2017	11/2/2017	1/1/2018				
Trees and Landscaping- La Brea	8/6/2015	10/5/2015	4/2/2016	6/1/2016				
Irrigation and Landscape Planting- MLK	2/4/2017	4/5/2017	10/2/2017	12/1/2017				
Landscape- West Park and Ride	8/6/2015	10/5/2015	4/2/2016	6/1/2016				
Traffic Signal Controllers- Market and Florence	9/3/2014	11/2/2014	5/1/2015	6/30/2015				
Traffic Signal Controllers- Locust Bus Bay and Florence	9/10/2014	11/9/2014	5/8/2015	7/7/2015				
Traffic Signal Controllers- 111th and Aviation	3/11/2015	5/10/2015	11/6/2015	1/5/2016				
Traffic Signal Controllers- Imperial and Aviation	11/26/2015	1/25/2015	7/23/2016	9/21/2016				
Traffic Signal Controllers- Florence and High	4/17/2015	6/16/2015	12/13/2015	2/11/2016				
Traffic Signal Controllers- Centinela and Florence	5/8/2015	7/7/2015	1/3/2016	3/3/2016				
Traffic Signal Controllers- West and 71st	5/8/2015	7/7/2015	1/3/2016	3/3/2016				
Traffic Signal Controllers- Hindry and Florence	1/1/2016	3/1/2016	8/28/2016	10/27/2016				
Traffic Signal Controllers- La Brea and Florence	2/6/2016	4/6/2016	10/3/2016	12/2/2016				
Traffic Signal Controllers- 104th and Aviation	9/30/2015	11/29/2015	5/27/2016	7/26/2016				
Traffic Signal Controllers- Tokin and Aviaton	3/5/2015	5/4/2015	10/31/2015	12/30/2015				
				12/30/2015				
Traffic Signal Controllers- Cedar and Florence	3/5/2015	5/4/2015	10/31/2015					
Traffic Signal Controllers- Eucalyptus and Florence	3/5/2015	5/4/2015	10/31/2015	12/30/2015				
Traffic Signal Controllers- Ivy Florence and Cable	3/5/2015	5/4/2015	10/31/2015	12/30/2015				
Traffic Signal Controllers-Century and Aviation	3/5/2015	5/4/2015	10/31/2015	12/30/2015				
Traffic Signal Controllers- La Cienega and Florence	8/1/2016	5/4/2015	10/31/2015	12/30/2015				
SF6 Gas Insulated Switches * Metro top/bottom	3/13/2015	6/1/2015	8/2/2016	10/1/2016				

CRITICAL PATH NARRATIVE

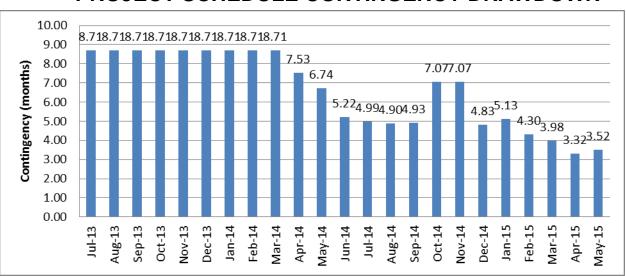
Critical Path:

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 Station support of excavation (SOE) and decking, excavation & invert construction; TBM mining operation; cross passage excavation, tunnel invert and walkway construction; track and system installation, while the MLK station SOE and decking, excavation & invert construction, OCS/Traction power and Train Control/Communication System installation 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 Feb 13, 2019, which is 123 calendar days behind the current contract date.



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.

SCC	DESCRIPTION	ORIGINAL	CURREN	T BUDGET	COMMI	TMENTS	EXPEND	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	442,934,439	4,702,883	62,804,224	-	450,354,375	(2,145,626
20	STATIONS	153,906,000	-	316,050,000	-	301,464,099	3,623,044	76,167,266	-	315,050,000	(1,000,000
30	SOUTHWESTERN YARD	66,673,000	6,572,544	73,245,544		6,549,923	-		6,572,544	73,245,544	-
40	SITEWORK\SPECIAL CONDITIONS	235,576,000	-	348,565,999	8,091,708	352,403,745	3,671,522	202,599,007	-	361,476,912	12,910,913
50	SYSTEMS	125,132,000	-	169,311,000		150,342,667	4,000	195,055	-	169,436,000	125,000
10-50	CONSTRUCTION	1,052,622,000	6,572,544	1,359,672,544	8,121,252	1,253,694,873	12,001,449	341,765,553	6,572,544	1,369,562,831	9,890,287
60	RIGHT-OF-WAY	132,294,000	-	127,400,000	243	113,848,994	110,871	108,782,062	-	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	4,193,178	300,093,178	271,721	209,106,222	4,185,093	176,953,205	4,193,178	315,999,274	15,906,096
90	UNALLOCATED CONTINGENCY	177,157,000	(10,765,722)	162,734,278		-	-	-	(10,765,722)	136,937,895	(25,796,383
	865512 & 860003 - SUBTOTAL	1,723,000,000	-	2,032,000,000	8,393,216	1,658,700,989	16,297,413	638,953,242		2,032,000,000	0
	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		25,549,388	-	25,549,388		26,000,000	-
	405512, 465512, 865512 & 860003 - TOTAL	1,749,000,000	-	2,058,000,000	8,393,216	1,684,250,377	16.297.413	664.502.629		2,058,000,000	

PROJECT COST STATUS

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH 30-MAY-2015.

SCC-30 Southwestern Yard-860003 budget increase by \$6,572,544 from \$66,673,000 to \$73,245,544 which includes funding for SCC-30, SCC-40, SCC-50 and SCC-80 Design scope of work.

SCC-80 Southwestern Yard-860003 budget increase by \$4,193,178 resulting in a total increase from \$295,900,000 to \$300,093,178 for both projects 860003 and 865512.

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 Board during May approved an increase in the amount of funding that the Crenshaw/LAX project is contributing toward the total cost of the Southwestern Yard Project. An additional \$10.8 million is required to be funded by drawdown from the Unallocated Contingency Current Budget SCC 90 and added to SCC 30 and SCC 80 for Southwestern Yard Project. 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 revised to

PROJECT COST ANALYSIS (Continued)

\$150.2 million out of a new total of \$307.2 million adopted by the Board.

A project cost status chart depicting the adopted budget for Southwestern Yard Project is included this month in the appendix section of this report.

The amount of funding available for the Crenshaw/LAX Transit Project, excluding the Southwestern Yard Project \$150.2 million allocation and Environmental/Planning budget of \$26.0 million, has been revised to \$1,881.8 million.

Current Forecast:

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

Although there is no change in the total project current forecast there is a forecast decrease of \$10.8 million in the Unallocated Contingency SCC 90 and corresponding increase of \$6.6 million in the Southwestern Yard SCC 30 and \$4.2 million in Professional Services SCC 80.

Commitments:

The commitments are cumulative through May 30, 2015. The total commitments increased by \$8.4 million this period primarily due to the following:

- SCC-40 (Sitework and Special Conditions) has increased by \$8.1 million due to executed third party scope of work with Los Angeles Department of Water & Power and Cable Engineering Services. The total commitment of \$352.4 includes \$6.5 million for the Southwestern Yard.
- SCC-80 (Professional Services) has increased of \$0.3 due to executed contract PS2775 for PMA Consultants, legal services, community relations and environmental consultant services. The total commitment of \$209.1 million includes \$6.3 million for the Southwestern Yard.

The \$1,684.3 million in commitments to date represents 81.9% of the current budget.

Expenditures:

The expenditures are cumulative through May 30, 2015. The total expenditures increased by \$16.3 million this period due to the following:

- SCC-10 (Guideways) has increased by \$4.7 million for costs associated with the design-build Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-20 (Stations, Stops, Terminals, Intermodal) has increased by \$3.6 million for costs associated with the design-build Contract C0988 Crenshaw/LAX Transit Corridor.
- SCC-40 (Sitework and Special Conditions) has increased by \$3.7 million for costs associated with the design-build Contract C0988 Crenshaw/LAX Transit Corridor and third party scope of work with Los Angeles Department of Water & Power, Qwest and Cable Engineering Services.

PROJECT COST ANALYSIS (Continued)

- SCC-60 (Right-of-Way) has increased by \$0.1 million for costs associated with real estate appraisal, acquisition, environmental and relocation. The total expenditure of \$108.8 million includes \$53.3 million for the Southwestern Yard.
- SCC-80 (Professional Services) has increased by \$4.2 million for costs associated with design-build Contract C0988 Crenshaw/LAX Transit Corridor, Metro project administration, IPMO field office utilities, non-federal community relations, construction management support services, legal services, permit fees, tunnel advisory panel services, third party coordination services by City of Los Angeles, project management support, material lab testing services, community relations, labor compliance and environmental consultant services. The total expenditure of \$176.9 million includes \$3.2 million for the Southwestern Yard.

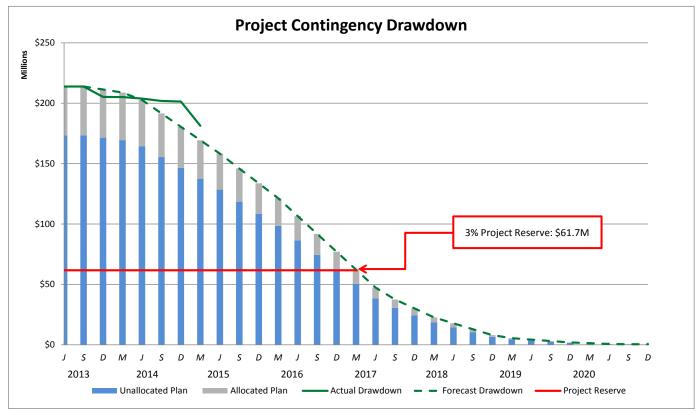
The \$664.5 million in expenditures to date represents 32.3% of the current budget.

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	C0988 NON-CRENSHAW/LAX TRANSIT PROJECT FUNDED SCOPE OF WORK										
DESCRIPTION		CURREN	T BUDGET	COMMI	TMENTS	EXPEND	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	2,988	239,000	-	2,549,000	239,000	
460303 AIRPORT METRO CONNECTOR	366,400	-	366,400	-	1,007,778	224,482	911,572	-	1,007,778	641,378	
500013 C/LAX LAWA SCOPE OF WORK	1,575,362	-	1,575,362	-	531,125	-	228,387	-	1,575,362	-	
TOTAL	4,251,762	-	4,490,762	-	4,021,649	227,470	1,378,958	-	5,132,140	880,378	

PROJECT CONTINGENCY DRAWDOWN



Through 30-May-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 notification request 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)

The Board during May approved an increase in the amount of funding that the Crenshaw/LAX project is contributing toward the total cost of the Southwestern Yard Project. Therefore, \$10.8 million is drawdown from unallocated contingency in May to cover this contribution.

The cumulative drawdown through May 2015 is \$43,332,426 or 20.3% of the contingency included in the current budget through May 2015. The drawdown of allocated contingency for additional costs associated with the design-builder's (Contract C0988) executed modifications is tracked monthly but is reported quarterly in this report. The cumulative drawdown of contingency is shown in the table below:

	Driginal	Previous	Current		_
	ntingency Budget	Period	Current Period	To-Date	Forecast Remaining Contingency
	3,500,000	(25,796,383)	(10,765,722)	(36,562,105)	136,937,895
Allocated Contingency 40	0,366,792	(6,770,321)	-	(6,770,321)	33,596,471
Total Contingency 213	3,866,792	(32,566,704)	(10,765,722)	(43,332,426)	170,534,366

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

- DBE Goal Design 23.82%
- Current DBE Commitment \$20,232,929 (22.34%)
- Current DBE Participation \$17,538,974 (21.74%)
- Twenty (20) Design subcontractors have been identified to-date
- DBE Goal Construction 20%
- Current DBE Commitment \$236,116,671 (20%)
- Current DBE Participation \$37,463,132 (14.45%)
- Forty Seven (47) Construction subcontractors have been identified to-date.

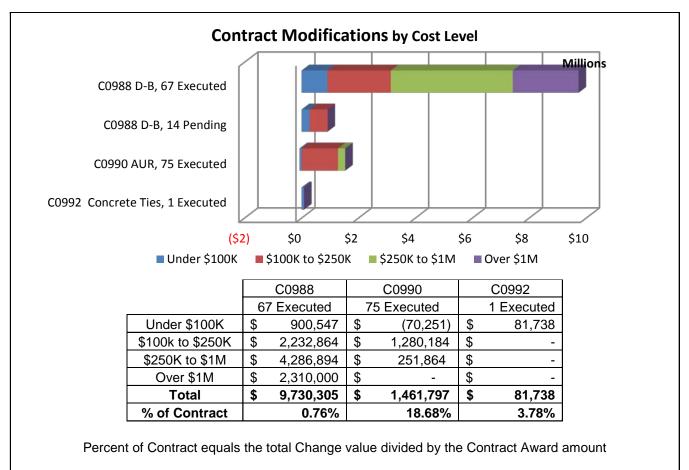
PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0988 Crenshaw/LAX Transit Corridor Design-Build

(Reporting Data as of April 18, 2015)

Targeted Worker Goal –	40.00%
Targeted Worker Current Participation -	59.15%
Apprentice Worker Goal -	20.00%
Apprentice Worker Current Participation -	18.11%
Disadvantaged Worker Goal -	10.00%
Disadvantaged Worker Current Participation	11.11%



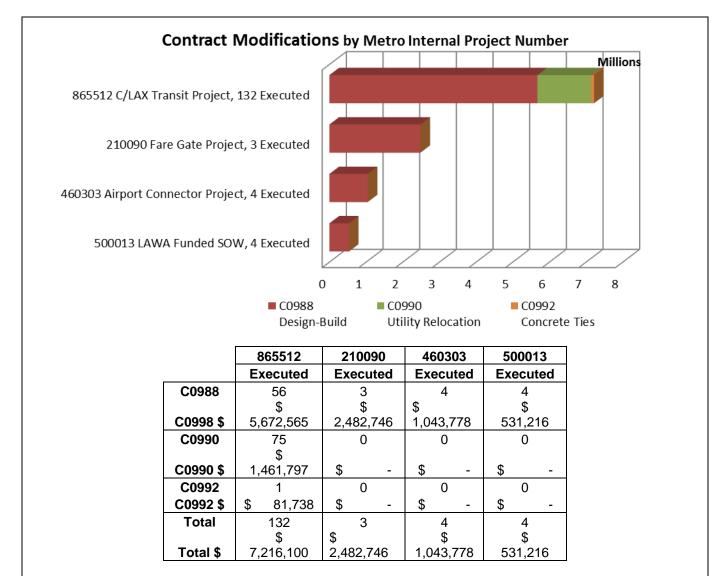


Sixty-seven (67) changes with a total value of 9.73 million have been executed since execution of Contract C0988. There are additional fourteen (14) changes with a total value of 0.91 million are pending the administrative approval process.

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

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

SUMMARY OF CONTRACT MODIFICATIONS



One hundred and thirty two (132) changes with a total value of \$7.21 million have been executed for Project 865512 Crenshaw/LAX Transit Project. There are additional fourteen (13) changes with a total value of 0.81 million pending the administrative approval process.

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

Four (4) changes with a value of 1.04 million have been executed for Project 460303 Airport Connector Project. There is additional one (1) changes with a total value of 0.1 million pending the administrative approval process.

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

FINANCIAL/GRANT STATUS

	(A) ORIGINAL	(B) TOTAL	(C) TOTAL	(D) COMMITM	(D/B) IENTS	(E) EXPENDI	(E/B) TURES		(F/B) FUNDING
SOURCE	BUDGET	FUNDS ANTICIPATED	FUNDS AVAILABLE	\$	%	\$	%	\$	SOURCE %
FEDERAL - CMAQ	68.2	54.0	30.0	54.0	100%	30.0	56%	30.0	56%
FEDERAL - SECTION 5309 BUS CAPT	8.6	8.6	8.6	8.6	100%	8.1	94%	8.1	94%
FEDERAL - REGIONAL STP	20.0	120.9	73.7	73.7	61%	38.4	32%	38.4	32%
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%
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	2.2	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%
STATE PROP 1B PTMISEA	201.2	128.6	128.6	128.6	100%	128.6	100%	128.6	100%
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%	384.0	58%	332.9	50%
OTHER FUNDS*	52.4	187.5	0.0	0.0	0%	0.0	0%	0.0	0%
PROP C 25% HIGHWAY	148.9	189.5	3.6	60.6	32%	3.6	2%	3.6	2%
PROP C 40% DISCRETIONARY	0.0	10.2	0.0	0.0	0%	0.0	0%	0.0	0%
PROP A 35% RAIL CAPITAL	4.8	50.4	4.9	50.4	0%	4.9	0%	4.9	10%
TOTAL	1,749.0	2,058.0	1,239.7	1,684.3	81.8%	664.5	32.3%	613.3	29.8%

NOTE: Expenditures are cumulative through May 2015.

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), 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 was approved in December 2014. Funds are available for drawdown. Metro submitted to FTA in January 2015 a grant application of \$24M for approval. Grant approval is on hold until the California Public Employees' Pension Reform Act (PEPRA) issue with the department of labor is resolved.

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 was approved on February 4, 2015. Funds are available for drawdown.

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 2015.

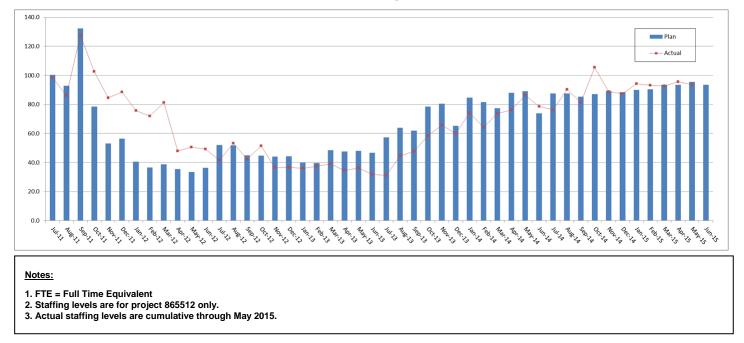
MEASURE R: \$377.4M has been allocated to the project through FY2015. Funds are available for drawdown.

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

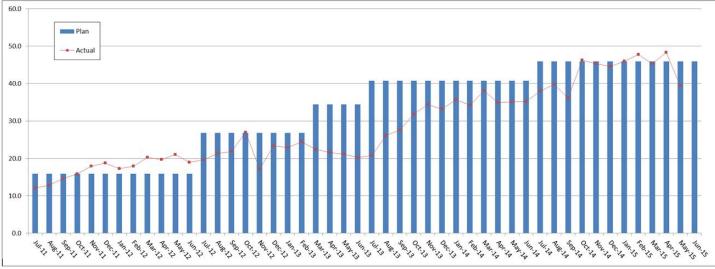
Total Project Staffing – FTES



TOTAL PROJECT STAFFING

For May 2015, there were a total of 39.5 FTE's for MTA's Project Administration staff and 54 FTE's for consulting staff. The total project staffing was 93.5 FTE's for May 2015. The overall FY15 Total Project Staffing plan averages 90.1 FTE's per month.

STAFFING STATUS (Continued) METRO STAFFING – FTES



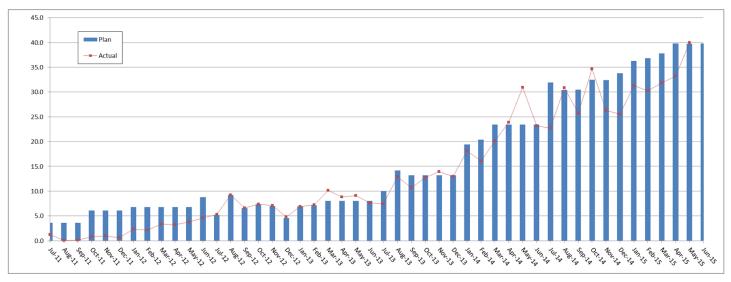
Notes:

1. FTE = Full Time Equivalent

2. Staffing levels are for project 865512 only.

3. Actual staffing levels are cumulative through May 2015.

CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT – FTES



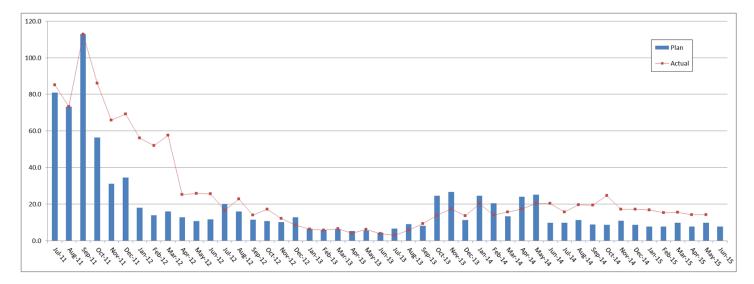
Notes:

1. FTE = Full Time Equivalent

2. Staffing levels are for project 865512 only.

3. Actual staffing levels are cumulative through May 2015.

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 May 2015.

	COTATE	STATUS
KEAL	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						r.	Γ	1	r
Full Takes	12	12		12	12	12	0	12	12
Part Takes (PT or SE)	10	9	1	9	9	3	5		8
TCE	10	10		10	10	6	3		7
Subtotal Parcels	32	31	1	31	31	21	8	12	27
Harbor Subdivision									
Full Takes	15	14		15	15	15	2	13	15
Part Takes (PT or SE)	19	17	2	18	17	7	6		7
TCE	3	2	1	2	2		2		1
Subtotal Parcels	37	33	3	34	33	22	11	13	23
Total CR/HS Parcels:	69	64	4	65	64	43	19	25	51
Southwestern Yard									
Full Takes	8	8		8	8	6	2	4	8
Part Takes	0								
TCE	0								
Subtotal Parcels:	8	8	0	8	8		2	4	8
Total SW Parcels:	8	8	0	8	8	6	2	4	8
C0990 C/LAX Advance Utility Relocations:									
Total Parcels:	0								
Total Project Parcels	77	*72	4	73	74	49	21	29	58

• **58** parcels acquired: **35** full takes (including HS-2706) and **23** part takes/Temporary Construction Easement (TCE) provided to WSCC.

• HS-1904-1 and 1907-1 (TCEs for the underground pedestrian easement) have been obtained and turned over to the contractor. The remaining TCE and part takes in these two parcels are anticipated to be turned over in June pending City of Inglewood acceptance of street easements.

Reported as of May 31, 2015

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.
- Approved revision 3 updates of the WSCC Project Quality Program Manual. Revision 3 of the HNTB Design Quality Manual is still under review.
- Participated in the periodic Project Partnering Meeting.
- WSCC Quality Assurance closed two Project surveillances including the Hobus Pipe replacement and a review of CWI Reports.
- WSCC Quality Assurance started a surveillance on Material Receiving efforts,
- WSCC Quality Assurance completed two audits, two surveillances and one vendor surveillance with zero findings.
- Continue to use Testing Verifications by Independent Testing Laboratories for welding at Aviation, concrete sampling and welder certification compliance checks.
- WSCC Quality issued one Nonconformance Report (NCR) for pile discrepancies at Aviation and Century.
- WSCC Quality closed five Metro Nonconformance Reports during the month.
- MTA Quality issued one Nonconformance Reports (NCR) for Project fencing issue.
- Participated in Construction Work Package Reviews and related Readiness Reviews for bridges, Vernon underground, shotcrete and rail welding efforts.
- No activities on the Concrete Rail Ties.
- Rail welding started on May 29, 2015 at the Redondo/Florence site.
- Seven painted Bumping Posts arrived with shipping-related damages to portions of the painted surfaces. The fabricator has been notified.

ENVIRONMENTAL STATUS

C0988 Crenshaw/LAX Transit Corridor Design Build

- Reviewed and commented on the following Contractor Submittals:
 - Weekly Noise Monitoring Data for Expo Station, MLK Station, Vernon Station, La Brea Station and Century Station
 - o Noise and Vibration Control Plan Update for Exposition Site
 - Noise and Vibration Control Plan for Underground No. 3
 - Green Construction Plan Monthly Reports
 - o Sustainability Plan Monthly Reports
 - Weekly Storm Water Pollution Prevent Plan (SWPPP) inspection reports
 - Weekly Fugitive Dust Inspection Reports
 - Various Construction Work Plans
- Continue to document compliance with the Project Mitigation Monitoring and Reporting Plan (MMRP). Compliance for April 2015 Mitigation Measures will be documented in the Quarterly Mitigation Monitoring and Reporting Report (April June 2015).
- Submitted Quarterly Mitigation Monitoring and Reporting Report (January March 2015) to FTA.
- Completed hazardous waste abatement (lead-based paint and asbestos) at parcels SW-0103 Dollar Rental Car.
- Coordinated hazardous waste abatement of lead-based paint and at parcels SW-0101 Avis Rental Car and CR-3304 Hi-Tech Cleaners.
- Reviewed soil sampling plan to determine the extent of soil contamination associated with the Underground Storage Tanks (USTs) at Parcel CR-3701.
- Coordinated the removal of two Underground Storage Tanks (USTs) with the County of Los Angeles for tanks in the City of Inglewood at Parcel HS-2101 and Parcel HS2206.
- Coordinated with property owner's environmental consultant for parcel SW-0104 for installation of soil remediation system.
- 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). Conducted additional Contractor Cultural Awareness Training.
- Coordinated Tree Removal Permit applications for the City of Los Angeles for Phase II on Crenshaw Boulevard sidewalk trees from 48th Street to 67th Street. A total of 124 sidewalk trees will be removed.
- Attended Contractor Weekly Progress meetings, Environmental Task-Force Meetings and various over-the-shoulder submittal meetings with Contractor.

CONSTRUCTION RELATIONS STATUS

- Worked with WSCC to reduce the 14-day Vernon excavation and decking closure to 12 days. Conducted outreach to businesses in the area.
- Placed banners and signage for businesses in the Vernon/Crenshaw Blvd. area.
- Participated in a Metro Joint Development Kick-off with the City of Inglewood.
- Held CLC Regroup and Strategic Planning Session.
- Conducted outreach with LAWA tenants and neighboring municipalities.
- Conducted outreach to cargo tenants regarding closures at Imperial/Aviation.
- Continued outreach on the proposed UG4-40 day closure of Crenshaw Blvd.
- Resolved noise and dust complaints related to work at Crenshaw/Exposition.
- Conducted outreach to West Angeles Villas residents regarding cut and cover work.
- Responded to complaints about City of Inglewood's Florence Rehabilitation Project.
- Responded to complaints regarding dust at various work sites along the alignment.
- Responded to complaints from business owners and residents about parking.
- Responded to complaints about trash and debris in parking lots near construction sites.
- Submitted weekly project update articles to the LA Sentinel.
- Produced Blast emails and social media posts regarding Eat, Shop, Play campaign.

SYSTEMWIDE DESIGN AND ART PROGRAM STATUS

- Responded to RFIs and submittal drawings.
- Continued to refine project artwork opportunities.
- Completed artist procurement process and contracting with 14 artists.
- Conducted Art Program presentation to community stakeholders.
- Facilitated artist's community outreach event for the Florence/La Brea Station artwork.
- Contracted with arts organization for construction phase artworks developed by local youths to be installed in 3 locations.
- Participated in Systemwide Design integration reviews and presentations.

SIGNAGE

• Responded to RFIs and submittals.

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.
- Conducted All Hands Safety Meeting. WSCC's Executive Management participated in discussions on Cal OSHA's Tunnel Safety Orders, injury/incident updates and their overall commitment to safety.
- Conducted Self-Rescue Training for the Crenshaw IPMO staff, Con-Ad and consultants.
- Reviewed WSCC's safety submittals and construction work plans to ensure compliance with their safety staffing, Emergency Action Utility Plans and the Metro Green Line counter weight removal at the Y intersection.
- Met with WSCC's Management Team to review Access/Egress proposal for the Underground 9 Expo/Crenshaw, Crenshaw/MLK and Crenshaw/Vernon Stations and tunnels.
- Walsh/Shea reported 98,968 work hours and one recordable incident for the month of May 2015. Total Project-to-Date work hours are 1,325,746 and ten recordable incidents. The Project Incident Rate is 1.5. The Bureau of Labor Statistics (BLS) average recordable rate per 200,000 work-hours is 3.8.

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	8/15	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

• Tesoro Oil – design in progress for 8" gas line. Construction should commence in July 2015 and complete by November 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					
A1212029	Hindry Avenue	Grade Crossing	Inglewood					
A1212029	Pedestrian Crossing at Florence/West station	Grade Crossing	Inglewood					
A1212029	West Boulevard	Grade Crossing	Los Angeles/Inglewood					
A1212027	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					
A120202E	Llorret Way	Crada Sanaratian	El Sogundo					
A1302025	Hornet Way	Grade Separation	El Segundo					
A1302025 A1302025	Aviation Boulevard	Grade Separation	Los Angeles					
A1302025 A1302025	I-105 Freeway	Grade Separation Grade Separation	Los Angeles					
	Imperial Highway		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						
A1302025	La Cienega Boulevard	Grade Separation						
A1302025	I-405 Freeway	Grade Separation						
A1302025	Hyde Park Boulevard	Grade Separation						
A1302025	La Brea Avenue Pedestrian Crossing at La Brea-Florence Station	Grade Separation	Inglewood					
A1302025	(East) Pedestrian Crossing at La Brea-Florence Station	Grade Crossing	Inglewood					
A1302025	(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.
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.
January 22, 2015	Received Technical and Price Bids for the Southwestern Yard (Division 16) Maintenance Facility.
March 25, 2015	Opened Price Bids for the Southwestern Yard (Division 16) Maintenance Facility.

CHRONOLOGY OF EVENTS (Continued)

May 28, 2015	The Board awarded Contract C0991 Division 16: Southwestern Yard to Hensel Phelps/Herzog JV. Also increased by \$22.0 million the Life of Project Budget for the Southwestern Yard Project to a new amount of \$307.2 million.
May 28, 2015	The Board approved Design Option 3 for the track alignment to accommodate the future Metro Connector Transit Station (96 th St. Station).

CONTRACT C0988 STATUS

Crenshaw/LAX Transit Corridor

CM Consultant: Stantec		onald (HM	Contract No.: C0988			
Contractor: - Walsh Shea Corri	dor Const	ructors (V	Status as of May 29, 2015			
Progress/Work Completed: Design - Submitted Segment A Final Design Guideway. Continued revised Segme - Submitted Segment B and Approve Continued Segment B Approved for Structures. - Submitted Segment C Final Design Approved for Construction on UG St - Submitted Final Design - Traction F Construction - Continued potholing in the Vernon, #3. - Continued geotechnical monitoring - Continued with SWPPP Implement - Completed installation of Soldier pil - Commenced installation of SOE so - Continued subgrade of Segment B - Completed utility relocation/ suppor - Continued subgrade of Segment B - Commenced Pile Cap construction - Continued column work at Century - Commenced false work erection at - Continued installation of SOE Piles - Commenced 104st temporary deck	ent A Final I ad for Const Construction on UG Stat ation Invert Power, Com MLK, La Br at Vernon, tation – Seg es at Vernon, dier Piles a MLK and Vé stat Vernon, dier Piles a MLK and Vé & MLK Stati 1 Guideway rail at Flore rea Bridge. for the La B Blvd. Bridge the Century at UG #1.	Design on L ruction plar n Design or tions. Conti Slabs. munication rea, Manche MLK, Expo ments A, B n Station. It UG #4. ernon Station on. y. ence/Redor Brea Bridge e.	Areas of Concern: - BOE approval process for SOE design - Possible cobbles and boulders found of MLK station. - Relocation of 24' LADWP water line mo- operation at Vernon Station - Contaminated materials (weathered ga TPH) discovered at Expo site. - Segment "A" guideway work may be in a westward shifting of the LRT tracts in the the future 96th Street Station. - Street package approval by the city far start of the Park Mesa street work. - Contractor's schedule does not accura	luring excavation at Expo and ay impact the decking asoline with high levels of appacted by implementation of Guideway at Segment "A" for nily reviews may impact the		
Schedule Assessment: Metro's assessment of the contracto on meeting interim design milestone Contractor's May 2015 schedule upo Substantial Completion is 123 calend	s. Jate indicate	es Milestone	e 1 - Contra	act	Cost Assessment: The current construction contract cost f and is within the Board authorized budg The Contractor submitted their 21th pay approved amount of \$ 13,698,419.70. *Please note that not all executed modi included in the Contractor current paym	jet. ment application in the fications may have been
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CONTRACT C0990 STATUS

Crenshaw/LAX Advanced Utility Relocations

PE Design Contractor: Hatch CM Consultant: Stantec Contractor: - Metro Builders a			Contract No Status as of	o.: C0990 f May 29, 2015		
Progress/Work Completed: - The construction was substantial	ly completed on A	ug 21, 2014	Areas of Co	ncern:		
Schedule Assessment: Metro has agreed to grant a total or result of lost production due to sar work hour restriction to 67th & Cree Metro granted substantial complet Contractor on August 21, 2014, w	and revised in w, and traffic c	Board authori The unpaid a	onstruction contract cost is zed budget.	\$9.29 million and within the from the base contract and		
Schedule Summary:				Cost Summa	ıry:	\$ In millions
1. Date of Award:	05/30)/12		1. Award Va	lue:	7.83
2. Notice to Proceed:	07/17	7/12		2. Executed	Modifications:	0.97
3. Original Substantial Completion	n Duration: 36	5		3. Approved	Change Orders:	0.49
4. Current Substantial Completion	Duration: 46	8		4. Current C	ontract Value (1 + 2 + 3):	9.29
5. Elapsed Time from NTP:	753	3		5. Incurred C	Cost:	9.12
Milestones	Original Curr Contract Cont		Calendar Day Variance		PERCENT CC from 7/17/12 to	
Milestone 1 - Contract Substantial Completion	07/17/13 11/18	8/13 08/21/14	-276	Design	0%	
			1	Design		
				Construction		99%
				.		
				Total Incurred Cost	, , , , ,	98%
				. c	12 20% 40% Percent Comp	60% 80% 100% lete Progress
				·	onstruction physical percent c	-
					obilization and general require	

CONTRACT C0991 STATUS

Southwestern Yard

PE Design Contractor: Hatch Me CM Consultant: Stantec Contractor: - TBD	ott MacDo	nald (HM	M)		Contract No.: C0991 Status as of May 29, 2015
Progress/Work Completed: - Metro advertised the Southwestern on August 29, 2014. - There were five Amendments issued #1 September 19, 2014 #2 October 24, 2014 #3 November 25, 2014 #4 December 18, 2014 #5 January 12, 2015 - Step One Technical Bid and Step Technical	d:	·	Areas of Concern: - None.		
2015. - Metro awarded the contract on May	28, 2015.				
Schedule Assessment: - Plan is to issue notice to proceed	d on June 2	29, 2015.			Cost Assessment:
Schedule Summary: 1. Date of Award: 2. Notice to Proceed: 3. Original Substantial Completion D	wration				Cost Summary: \$ In millions 1. Award Value: 2. Executed Modifications: 2. Approved Chapter Orders:
 Original Substantial Completion D Current Substantial Completion D Elapsed Time from NTP: 					 Approved Change Orders: Current Contract Value (1 + 2 + 3): - Incurred Cost:
Milestones MS#1 Yard and Main Shop Design Completion MS#2 Main Shop Communication Room Completion MS#3 Main Shop Substantial Completion MS#4 Southwestern Yard Substantial Completion	Original Contract	Current Contract	Forecast	Calendar Day Variance 0 0 0 0	PERCENT COMPLETE fromto Design Construction Total Incurred O% 20% 40% 60% 80% 100%
					0% 20% 40% 60% 80% 100% 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					Contract No.: C0992	- CANA
Contractor: Rocla Concrete Tie	e Inc.		Status as of May 29, 2015			
Progress/Work Completed: - All 19,936 concrete ties have been (Contract C0988). - Contract is in close-out pending re	received on	-	-		Areas of Concern: - Compliance with Buy America requirement un	nder review by FTA.
Schedule Assessment: Metro has agreed to grant a 15 cale limited access to the yard due to the (BNSF),which was beyond the reas All concrete ties have been delivere	e operation o onable contr	of Burlingtor ol of RCTI.	n Northern	llt of Santa Fe	Cost Assessment: The current construction contract cost is \$2. completely paid to contractor.	25 million and has been
Schedule Summary:					Cost Summary: \$ In	millions
-			12/10/13	5		2.16
1. Date of Award:			12/23/13		1. Award Value:	0.09
2. Notice to Proceed:			220		2. Executed Modifications:	0.09
3. Original Substantial Completion			235		3. Approved Change Orders:	0.07
4. Current Substantial Completion	Duration:				4. Current Contract Value (1 + 2 + 3):	- 2.25
5. Elapsed Time from NTP:			235)	5. Incurred Cost:	2.25
Milestones Milestone 1 - Contract Substantial	Original Contract	Current Contract	Forecast	Calendar Day Variance	PERCENT COMP from 12/23/2013 to 8/	
Completion	07/31/14	08/15/14	08/15/14	0	Delivered	100%
				0		
					Shipped	100%
				0		
				0	Total Incurred	100%
					Cost	
				0	0% 20% 40% 60%	
				0	Percent Complete	Progress
					Construction physical percent comp mobilization and general requireme	

CONTRACT C0992A STATUS

Running Rail and Bumping Posts

PE Design Contractor: Hatch M CM Consultant: Stantec Contractor: LB Foster Rail Tec			Contract No.: C0992A Status as of May 29, 2015		
Progress/Work Completed: - All 115RE SS Blank Stick Rails ha - All 115RE HH rail have been delin - All Bumping Posts have been delin	ave been del vered to job s	ivered to th	Areas of Concern:		
Schedule Assessment:					
All running rails and bumping posts schedule.	have been d	elivered af	nead of the		Cost Assessment: The current contract cost is \$5,2 million and has been completely paid to contractor. Invoice# 306373RI for \$369,622.61 was approved in May 2015.
Schedule Summary:					Cost Summary: \$ In millions
 Date of Award: Notice to Proceed: Original Substantial Completion Current Substantial Completion Elapsed Time from NTP: 			01/23/14 03/07/14 300 558 448	L) 3	1. Award Value:5.22. Executed Modifications:
Milestones Milestone 1 - Contract Substantial	Original Contract	Current Contract	Forecast	Calendar Day Variance 145	PERCENT COMPLETE from 3/7/2014 to 05/29/15
Completion	12/31/14	09/30/15	05/08/15	0 0 0 0 0	Construction Total Incurred Cost 0% 20% 40% 60% 80% 100% Percent Complete Progress
					Construction physical percent complete excludes mobilization and general requirements



CONSTRUCTION PHOTOGRAPHS

Concrete Placement for CIDH #5 (Bent 5).

May 2015



Green Line Underpass Bent 5 Column Rebar Cage Placement.



111th Street Underpass Abutment 2 Footing Excavation.



Aviation Century Underpass Falsework Bent 5-1.



Florence Between Centinela and Redondo Clearing for Guideway Installation and Utility Investigation.



Pile Driving at La Brea Bridge Abutment 2 (East).



Installing SOE Pile 288.2 North of 104th Street.



WSCC Placing and Compacting CMB for Navaid Light Footer.



Topping SOE Piles at Emergency Stair Case 2.



Installing West Walers at the MLK Station.



Hoisting Strut Down the Expo Shaft.



Dragging Struts to South End at the Expo Station.



Undermining CMP Storm Drain at MLK.



Hoisting Strut Down the Expo Shaft.



Dragging Struts to South End at the Expo Station.



Undermining CMP Storm Drain at MLK.



Excavation in the Northwest Station Box at MLK.



Shaft Section at MLK.

PROJECT COST STATUS – SOUTHWESTERN YARD

SCC		ORIGINAL	CURREN	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST	
CODE	DESCRIPTION	BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAYS	0	0	0	0	0	0	0	0	0	0
20	STATIONS	0	0	0	0	0	0	0	0	0	0
30	SUPPORT FACILITIES (Y & S)	85,546,835	0	85,546,835	0	0	0	0	0	85,546,835	0
40	SITEWORK\SPECIAL CONDITIONS	35,932,000	0	35,932,000	0	6,549,923	0	0	0	35,932,000	0
50	SYSTEMS	32,933,700	0	32,933,700	0	0	0	0	0	32,933,700	0
	(10-50) CONSTRUCTION	154,412,535	0	154,412,535	0	6,549,923	0	0	0	154,412,535	0
60	RIGHT-OF-WAY	100,080,000	0	100,080,000	0	91,156,457	0	90,953,663	0	100,080,000	0
70	VEHICLES	0	0	0	0	0	0	0	0	0	0
80	PROFESSIONAL SERVICES	35,601,095	0	35,601,095	0	6,340,496	134,149	3,275,569	0	35,601,095	0
90	PROJECT CONTINGENCY	17,106,370	0	17,106,370	0	0	0	0	0	17,106,370	0
TOTAL	-	307,200,000	0	307,200,000	0	104,046,876	134,149	94,229,232	0	307,200,000	0
PAINT	& BODY SHOP PROJECT										
DESCRIPTION		ORIGINAL	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		FORECAST
DESC		BUDGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
PAINT	& BODY SHOP	11,000,000	0	11,000,000	410	410	410	410	0	11,000,000	0
	ECT GRAND TOTAL	318,200,000	0	318,200,000	410	104,047,286	134,559	94,229,642	0	318,200,000	0

PROJECT COST ANALYSIS

Original Budget:

The Board in May 2015 established the Life-of-Project (LOP) budget of \$307.2 million for the Southwestern Yard Project.

Current Budget:

The Board in May 2015 approved an increase for the funding for the Southwestern Yard by \$22.0 million to increase the Life-of-Project (LOP) budget to \$307.2 million to allow for the award of design-build Contract C0991 Southwestern Yard Project. Of the total \$307.2 million, \$150.2 million is funded in the Crenshaw/LAX Transit Project life of project budget which includes the original 49% allocation amount of \$139.4 million plus a new \$10.8 million reduction from the Crenshaw/LAX Transit Project contingency line item in the budget. There is no increase in the LOP for the Crenshaw/LAX Transit Project. The original 51% share associated with future Green Line related extensions in an amount of \$145.8 million was increased by \$11.2 million for a new total of \$157.0 million.

In addition to the \$307.2 million there is another \$11.0 million that is the budget for the paint and body shop, under another Metro internal cost project number, which funding was approved by a prior agreement for a paint and body shop to support the Green Line shops and was required for the award of the design-build Contract C0991 Southwestern Yard Project.

The grand total of the combined cost is \$318.2 million.

PROJECT COST ANALYSIS (Continued)

Current Forecast: No change.

Commitments:

The commitments are cumulative through May 30, 2015.

Expenditures:

The expenditures are cumulative through May 30, 2015.

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 Elemen	t 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 AFC ALJ AMC APM ATC ATC ATSAC BAFO BID BIM BLS BNSF BOC CADD CALTRANS CARB CCTV CD CALTRANS CARB CCTV CD CD CDRL CC CD CDRL CE CEQA CFR CIDH CIP CLC CM CMAQ CMU CN	Advanced Conceptual Engineering Americans with Disabilities Act Alternative Dispute Resolution Approved for Construction 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 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 Cast in Place Community Leadership Council Construction Manager Congestion Mitigation and Air Quality Improvement Program Concrete Masonry Unit Change Notice
	Change Notice
CO COI	Change Order City of Inglewood
COLA	City of Los Angles
CPM	Critical Path Method
CPUC	California Public Utilities Commission
CR	Camera Ready
CRMMP	Cultural Resources Monitoring and Mitigation Plan
CSM	Cutter Soil Mixing
CSP	Cost and Schedule Proposal
CSPP	Construction Safety Phasing Plan

CTB	Cement Treated Base
CTC	California Transportation Commission
CUD	Contract Unit Description
CWP	Construction Work Plan
DB	Design Build
DBB	Design Bid Build
DBE	Disadvantaged Business Enterprise
DDR	Design Deviation Report
DOT	Department of Transportation
DRB	Dispute Review Board
DWP	Department of Water and Power
E&O	Error and Omission
EEO	Equal Employment Opportunity
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ENC	Equipment Noise Certification
EPA	Environmental Protection Agency
EPBM	Earth Pressure Balance Machine
ESA	Environmental Site Assessment
FAA	Federal Aviation Administration
FAR	Federal Acquisition Regulation
FAT	Factory Acceptance Testing
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
FIS	Financial Information System
FLSR	Fire Life Safety Report
FONSI	Finding of No Significant Impact
FRA	Federal Railroad Administration
FSEIR	Final Supplemental Environmental Impact Report
FSEIS	Final Supplemental Environmental Impact Statement
FTA	Federal Transit Administration
FTE	Full Time Equivalent
GBR	Geotechnical Baseline Report
GDR	Geotechnical Data Report
GDSR	Geotechnical Design Summary Report
GFE	Good Faith Effort
HDPE	High Density Polyethylene
HMM	Hatch Mott MacDonald
HNTB	Howard, Needles, Tammen and Bergendoff
-	

APPENDIX

IFB	Invitation for Bid
IFC	Issued for Construction
IPMO	Integrated Project Management Office
ITF	Intermodal Transportation Facility
JHA	Job Hazard Analysis
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
LACO	Los Angeles County
LACFCD	Los Angeles County Flood Control District
LACMTA	Los Angeles County Metropolitan Transportation Authority
LACSD	Los Angeles Sanitation Department
LADOT	Los Angeles Department of Transportation
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department
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
	Locally Preferred Alternative
	Light Rail Transit
	Long Range Transportation Plan
LRV MBE	Light Rail Vehicle Metro Builders and Engineers Group, Ltd
MCA	Master Cooperative Agreement
MGL	Master Cooperative Agreement
MIC	Microbiologically Influenced Corrosion Control System
MIS	Major Investment Study
MMRP	Mitigation Monitoring Reporting Plan
MOA	Memorandum of Agreement
MOS	Minimum Operating Segment
MOU	Memorandum of Understanding
MPS	Master Program Schedule
MPSR	Monthly Project Status Report
MSDS	Material Safety Data Sheet
MSF	Maintenance & Storage Facility

N/A	Not Applicable
NAVAIDS	National Aid Systems
NEPA	National Environmental Protection Act
NFPA	National Fire Protection Association
NNC	Notice of Noncompliance
NOD	Notice of Determination
NPDES	National Pollution Discharge Elimination System
NTE	Not to Exceed
NTP	Notice To Proceed
000	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
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
	Public Transportation Modernization, Improvement and Service
PTMISEA	
QA	Quality Assurance
QAR	Quality Assurance Report
QC	Quality Control
	Quarterly Project Status Report
	Qualified Transit Improvement Bonds
	Real Estate Acquisition Management Plan
RCHAR	Rail Crossing Hazards Analysis Report
RCMP REAP	Risk Assessment Management Plan Rain Event Action Plans

RFC	Request for Change
RFI	Request for Information
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
ROE	Right of Entry
ROM	Rough Order of Magnitude
ROW	Right-Of-Way
RPZ	Runway Protection Zone
RSD	Revenue Service Date
RSTP	Regional Surface Transportation Program
RTIP	Regional Transportation Improvement Program
SAV	Stand Alone Validator
SCADA	Supervisory Control and Data Acquisition
SCAQMD	Southern California Air Quality Management District
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
SOE	Support of Excavation
SOP	Standard Operating Procedure
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
STV	STV Group
SWPP	Storm Water Prevention Plan
SWY	Southwestern Yard (Division 16)
TBD	To Be Determined
ТВМ	Tunnel Boring Machine

- TCC Train Control/Communications
- 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
- TSC Traffic Signal Conduit
- TSL Temporary Street Lighting
- TSM Transportation System Management
- TVA Threat Vulnerability Analysis
- TVM Ticket Vending Machine
- UBC Uniform Building Code
- UFS Universal Fare System
- UG Underground
- UOM Unit of Measure
- USDOT United States Department Of Transportation
- UST Underground Storage Tank
- VE Value Engineering
- WBS Work Breakdown Structure
- WP Work Package
- WSCC Walsh/Shea Corridor Constructor
- WTCP Work Traffic Control Plan
- YOE Year of Expenditure