

Board Report

Los Angeles County
Metropolitan Transportation
Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA

File #: 2017-0202, File Type: Oral Report / Presentation Agenda Number: 29.

CONSTRUCTION COMMITTEE APRIL 20, 2017

RECEIVE oral report by the Program Management Chief Officer.

DISCUSSION

- A. Update report covering the month of April 2017 by the Program Management Chief Officer; and
- B. At the January 2017 meeting, the Board authorized a one-year pilot program authorizing the CEO to negotiate and execute project-related agreements, including contract modification(s) up to the authorized Life of Project budget, to streamline project management of the four (4) major transit corridor projects (Crenshaw/LAX, Regional Connector, Westside Purple Line Extension Section 1 and 2 projects). In addition, staff was directed to provide monthly reports, that would include any pending project-related agreements, change orders/contract modifications and any significant changes to contingency.

Pursuant to the Board motion, staff has developed and begun reporting on cost contingency and contract change activity starting in the February 2017 Monthly Update to the Construction Committee. This new report includes a project cost contingency drawdown curve and allows the Board to see project-related and change activity. This report can be found in Attachment A.

At the conclusion of the one-year pilot program in January 2018, staff will report back to the Board on the time saved as result of this pilot program, and any lessons learned, and recommendations for the Board review and further direction.

ATTACHMENTS

Attachment A - Program Management Chief Officer's Report - April 2017

Prepared by:

- Crenshaw/LAX Charles Beauvoir, Deputy Executive Officer, Project Mgmt., (213) 299-3095
- Regional Connector Gary Baker, Deputy Executive Officer, Project Mgmt., (213) 893-7191
- Westside Purple Line Ext 1 James Cohen, DEO Project Mgmt., (213) 922-7911
- Westside Purple Line Ext 2 Michael McKenna, EO Project Mgmt., (213) 312-3132
- Patsaouras Plaza Busway Station -Timothy Lindholm, EO Project Engr., (213) 922-7297

Agenda Number: 29.

• **Presentation -** Yohana Jonathan, Departmental System Analyst, (213) 922-7592

Reviewed by: Discussion

Program Management Chief Officer's Report

Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

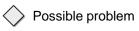


PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX	\Diamond	\Diamond	Due to heavy rains in January and February the contractor is forecasting a delay to the Project critical path. Delay mitigation strategy is being implemented by the project which will result in the schedule meeting contract Revenue Service Date (RSD) of October 30, 2019. The remaining cost contingency is below the 3% Project Reserve level.
Regional Connector	ОК	ОК	Board approved LOP budget increase. Schedule re-baselined.
Westside Purple Line Extension-Section 1	ОК	ОК	Overall construction progress is 16.7% complete.
Westside Purple Line Extension-Section 2	ОК	ОК	Contractor Notice to Award issued January 31, 2017. Notice to Proceed for the Design/Build contract is anticipated in April 2017.
Patsaouras Plaza	OK OK	A	Schedule negotiations in progress to determine revised substantial completion date.

April 2017







Major issue



CRENSHAW/LAX TRANSIT PROJECT

♦ BUDGET

Current Forecast TOTAL COST \$2,058M \$2,058M

Current
REVENUE Oct 2019

Forecast Nov 2019

- OPERATION
- Overall project progress is 60% complete. However, heavy rains in January and February have impacted planned progress. Delay mitigation strategy is being implemented by the project which will result in the schedule meeting contract Revenue Service Date (RSD) of October 30, 2019.
- Mining of final section to Leimert Park Station is on schedule.
- All six underground structures on schedule.
- Street widening continues in Park Mesa Heights area.
- Southwestern Yard contractor continues site excavation, underground utilities, and main shop foundation concrete.



Completed wall sections of Tunnel near airport runways



TBM trailing gear being pulled thru MLK Jr. Station

April 2017



 \Diamond

Possible problem



Major issue



Los Angeles County Metropolitan Transportation Authority



REGIONAL CONNECTOR TRANSIT CORRIDOR



BUDGET

Current Forecast TOTAL COST \$1,810M \$1,810M

* Includes Board approved LOP plus Planning and Finance costs.

- Overall Project Progress is 32%.
- TBM mining operations are underway; first pass under Japanese Village Plaza is complete.
- Continue utility hanging and excavation under 2nd/Spring.
- On schedule to receive TBM at Hope Station in late May.
- Flower Street work includes:
 - Deck beam and panel installation between 4th and 5th Streets;
 - Coordination of DWP power relocation at 6th/Flower; and
 - Preparing for 24" waterline cut-overs between 5th and 6th Streets.
- The TBM Recovery Shaft at 4th/Flower continues to be excavated and readied for arrival of the TBM in June.



SCHEDULE

Current
REVENUE Dec 2021
OPERATION

Forecast Dec 2021



Utility hanging under 2nd Street decking



HDPE placement at 2nd/Hope Station



Tunnel entrance at 1st/Central Station

April 2017



On target



Possible problem



Major issue



WESTSIDE PURPLE LINE EXTENSION – SECTION 1



TOTAL COST*

Current \$3,154M **Forecast** \$3,154M

* Includes Board approved LOP plus Planning and Finance costs.



SCHEDULE

REVENUE **OPERATION** Current Oct 2024 **FFGA**

Forecast Nov 2023

- Overall Project Progress is 16.7 % complete.
- Excavation for the Wilshire/La Brea Station that commenced on October 12, 2016 continues beneath the deck panels, which includes the hanging/relocation of existing utilities, dewatering discharge and the placement of walers and struts.
- The Wilshire/Fairfax pile installation operation completed on February 8, 2017. Wilshire/Fairfax Station decking commenced on the weekend of February 11, 2017. There are 18 weekend closures planned for this operation.
- The installation of the sound wall and instrumentation is on-going at Wilshire/La Cienega Station. The Wilshire/La Cienega Station piling operation is scheduled to start in March 2017.
- The jet grouting operation along Wilshire Boulevard at the cross passages continues. This work along the tunnel section from Wilshire/La Brea to Wilshire/Western is scheduled to continue through July 2017.
- Tunnel Boring Machines (TBMs) are being fabricated for delivery at the end of 2017. Tunneling is planned to start in 2018.



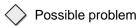
Pipe Strut at Wilshire/La Brea Station



Placement of Deck Panel at Wilshire/Fairfax

April 2017







Major issue



WESTSIDE PURPLE LINE EXTENSION – SECTION 2

BUDGET



Current \$2,530M

Forecast \$2.530M

* Includes Board approved LOP plus Planning and Finance costs.

- Notice to Proceed for the Design/Build contract is anticipated in April 2017.
- Construction of the telecom joint trench is proceeding at the Century City Constellation Station. Duct bank will complete in April 2017, cable pulling/splicing completion is anticipated in August 2017.
- Advanced utility relocations are anticipated to begin at the Wilshire/Rodeo Station in May 2017. Concurrence by the City of Beverly Hills on the utilities final design plans are underway.
- Negotiations for a Memorandum of Agreement(MOA) governing utility work began in March 2017.



Current
REVENUE Dec 2026
OPERATION FFGA

Forecast Aug 2025



Telecom Joint Trench Construction along Constellation Boulevard



PATSAOURAS PLAZA BUSWAY STATION

BUDGET

Current TOTAL COST \$39.7M

Forecast \$39.7M

SCHEDULE

SUBSTANTIAL COMPLETION

Current Dec 2017 Forecast Nov 2018

- Vignes On/Off ramp closed Jan 3, 2017 to allow for utility relocation and foundation work to start.
- Bridge overhead demolition, utility relocation, and foundation construction is ongoing.
- Ramirez St and Center St closures have been approved by City.
- Drilling subcontractor has been mobilized and drilling started March 16, 2017.
- Schedule negotiations in progress to determine revised substantial completion date due to delayed start







Aerial view of site

First pile drilling

Utility Relocation

April 2017





Possible problem



Major issue



Construction Committee

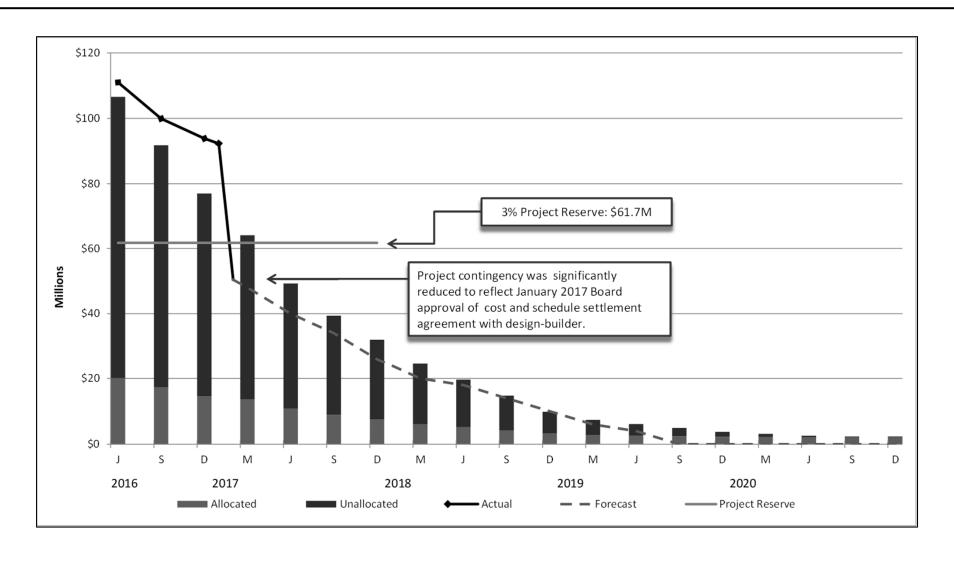
Los Angeles County Metropolitan Transportation Authority

Crenshaw/LAX Transit Project Change Activity

Change Notice #	Description	Number of Mod/ Change Orders	Cost Value	
TOTAL VALU	E OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS	261	\$ 35,997,217	
TOTAL PENDIN	G MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST	23	\$ 34,794,182	
CONTRACT C0988				
MOD 00202.1	Turnback and Speed Restrictions		Less than \$1 million	
MOD 00226	Maint. ROW Adj. Properties La Colina		Less than \$1 million	
MOD 00240	Construction- Tree Well Brick Pavers		Less than \$1 million	
MOD 00245.1	Crenshaw Landscaped Median Rendering		Less than \$1 million	
MOD 00250	Clarify Rail Welding Inspection Req.		Less than \$1 million	
MOD 00255	Extended Track - Construction		Less than \$2 million	
MOD 00256	Black Diamond Vault 5436 Crenshaw Bl		Less than \$1 million	
MOD 00257	Ballast Wall Extension at Eucalyptus		Less than \$1 million	
MOD 00258	Claims and Disputes Settlement Agmt		Less than \$30 million	
MOD 00234	LADOT Fiber Optic Cable Betterment		Less than \$1 million	
CO 00046.4	Undergrd Fire Rated Conduit & Cable		Less than \$1 million	
CO 00129	Elimination Crosver Sta 56+57.50		Credit Less than \$1 million	
CO 00136	Relocate Qwest Pullbox at Hindry Ave		Less than \$1 million	
CO 00140	Disp Remove Contam. Soil STA 182+25		Less than \$1 million	
CO 00152	Radio System - Additional Tunnel Amp		Less than \$1 million	
CO 00153	Radio System - Additional Head-End		Less than \$1 million	
CO 00154	Radio System- UG1 Hot Standby Amplif		Less than \$1 million	
CN 00229	Unsuitable Soils for Subgrade RW192		Less than \$1 million	
CN 00231	Trash Removal at MSE Wall 111		Less than \$1 million	
CN 00241	Update Station Customer Signage Cons		Less than \$1 million	
CN 00278	Additional Curb Ramps at Westmount		Less than \$1 million	
CN 00326	Segment C Design Revisions per LADOT		Less than \$1 million	
CN 00340	Const. Intrusion Det. Access Ctrl In		Less than \$1 million	
	TOTAL MODIFICATIONS AND CHANGE ORDERS	284	\$ 70,791,399	

Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

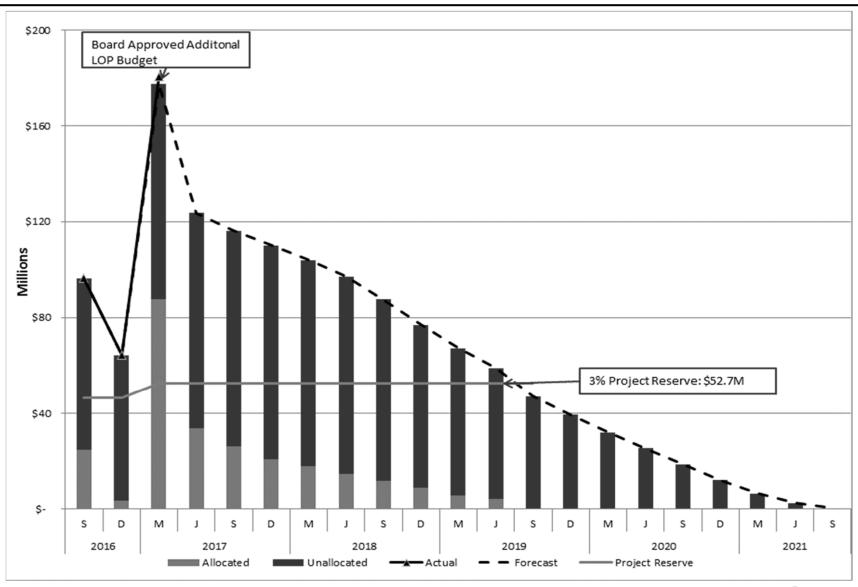


Regional ConnectorChange Activity

TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST: 181/Alameda Bumpout (Construction) Flower Street Modification: future 2-way Traffic /Bumpout/Ped Lighting (Construction) Revise Metro Rail Station Signage and Incorporate Metro Underground Station Signage (Construction) Add Way Junction Fan Plant Construction Fully Coupled Dynamic Analysis for SEM Cavern Fully Coupled Dynamic Analysis for SEM Cavern Fully Coupled Dynamic Analysis for SEM Cavern Eass Than \$1 Million Revisions to TPIS Requirements - Construction 68.0 Commonwealth Agreement Provisions Commonwealth Agreement Provisions Eass Than \$1 Million Revisions to TPIS Requirements - Construction 68.0 Flower Street Zanja Redditional Potholing ATT Ductbank Redditional Potholing Bess Than \$1 Million Poputy Grading Inspector 2nd Brade Additional Potholing ATT Ductbank Redditional Potholing Bess Than \$1 Million Poputy Grading Inspector 2nd Brade Additional Potholing ATT Ductbank Redditional Potholing ATT Ductbank Redditional Potholing Bess Than \$1 Million Bess Than \$1 Million Support Veolia 24" Chilled Water Pipes at 2nd/Hope Station Option 3 Pedestrian Bridge Revisions / Broad Coordination (Construction) Between \$1 and \$5 Million Add One Add 1 VHF Redio Operational Channel - Construction Bestween \$1 and \$5 Million Revisions to Metro Optical Network Switch Revisions to Metro Optical Network Switch Revisions to Metro Optical Network Switch Add Perforated Metal Dropped Celling 21 2nd/Hope Station Plaza - Construction Bess Than \$1 Million Revisions to Metro Optical Network Switch Revisions to Metro Optical Network Switch Delays and schedule mitigation measures, electrical and ware utility reclosation costs, add in the Sas Affairs of Metro Plaza - Construction Bess Than \$1 Million Province Add Station Plaza - Construction Servince Sea - Shan \$1 Million Province Add Station P	Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
Service Street Modification: future 2-way Traffic /Bumpout/Ped Lighting (Construction) Between \$1 and \$5 Million		TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:	75	\$ 127,416,098
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Regional Connector

Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 1 Change Activity

Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
	TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:	131	\$ 10,959,182
TOTAL PE	NDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:	19	\$ 2,989,401
CONTRACT C1045		16	
CN-25.2	Revisions to Transit Passenger Information System (TPIS) Requirements		Less Than \$1 Million
CN-26	Betterment: Median Reconstruction At San Vicente Blvd		Less Than \$1 Million
CN-31.1	Station Canopy Changes		Less Than \$1 Million
CN-32	Pin Station (Identifier) Changes		Less Than \$1 Million
CN-37.2	Rev Metro Furnished Fujitsu 9500 Equipment To Be Furnished By Contractor		Less Than \$1 Million
CN-39	Revisions To Metro Station Signage Standards		Less Than \$1 Million
CN-42.2	Radio Subsystem Redundancy (Failover)		Less Than \$1 Million
CN-43.1	Isolate Track Circuits At Western		Less Than \$1 Million
CN-46	Plaza Level Elevator Canopy Changes		Less Than \$1 Million
CN-48.1	Bike Enclosure Electrical Power & Communication Additions		Less Than \$1 Million
CN-53	Additional Material Testing - Deck Panels		Less Than \$1 Million
CN-54	Additional geotech monitoring		Less Than \$1 Million
CN-57	Additional Geotech Monitoring at La Cienega (Support of Deviation Request)		Less Than \$1 Million
CN-58	Civil - DU4 Tree Change, DU4 Bike Share Paving, All STA - Auth Pkg Sgns		Less Than \$1 Million
CN-59	La Cienega Permit Fees		Less Than \$1 Million
CN-60	Additional Vibration Monitoring		Less Than \$1 Million
CONTRACT C1078		3	
CN-8	Relocation Of 8-Inch Sanitary Sewer		Less Than \$1 Million
CN-11	Schedule Impacts Due To Third Party		Less Than \$1 Million
CN-12	Betterment: Motorized Sliding Gate		Less Than \$1 Million
	TOTAL MODIFICATIONS/CHANGE ORDERS:	150	\$ 13,948,583

Westside Purple Line Extension – Section 1 Project Cost Contingency Drawdown

