

Board Report

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

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CONSTRUCTION COMMITTEE NOVEMBER 18, 2021

SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT

ACTION: ORAL REPORT

RECOMMENDATION

RECEIVE oral report on the Major Project Status by the Chief Program Management Officer.

DISCUSSION

Update report covering the month of November 2021 by the Chief Program Management Officer.

Prepared by:

- Crenshaw/LAX Sameh Ghaly, Sr EO Project Mgmt., (213) 418-3369
- Regional Connector Sameh Ghaly, Sr EO Project Mgmt., (213) 418-3369
- Westside Purple Line Ext 1 James Cohen, EO Project Mgmt., (213) 922-7911
- Westside Purple Line Ext 2 Michael McKenna, EO Project Mgmt., (213) 312-3132
- Westside Purple Line Ext 3 Kimberly Ong, EO Project Mgmt., (323) 903-4112
- Airport Metro connector (AMC) Timothy Lindholm, Sr. EO Project Engr., (213) 922-7297
- **G Line BRT Improvements Project -** Timothy Lindholm, Sr. EO Project Engr., (213) 922-7297
- I-5 North County Enhancements -Timothy Lindholm, Sr. EO Project Engr., (213) 922-7297
- Division 20 Portal Widening Turnback Rick Meade, Sr EO Project Mgmt., (562)524-0517
- **I-210 Barrier Replacement -** Androush Danielians, Sr EO Project Engr., (213) 922-7598
- Presentation Yohana Jonathan, Mgr, Project Control, (213) 418-3031

Program Management Major Project Status Report

Presented By

Bryan Pennington

Chief Program Management Officer



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

	Cost Performance		Schedule Performance		
Project	Variance Approved LOP		Original	Variance Revised Schedule	Comments
Crenshaw/LAX	OK OK	OK	A	A	Project is 99.3% complete. Contractor is not applying sufficient work force to complete their remaining work. Remaining work is primarily underground station finishing, facility equipment, communications and train control system integration testing. Metro continues to work with contractor to mitigate the delays and impacts to the project schedule; emphasizing safety and reliability in final acceptance of project elements and systems. Equity - 8 of 8 stations (100%) are within or adjacent to Equity Focus Communities.
Regional Connector	A	OK	A	OK OK	Project is 87.5% complete. Comprehensive testing underway for 7th/Metro Center and adjacent facility interfaces; Site work and restoration throughout alignment continues; and MEP and systems work continues in stations and guideway. Equity - 3 of 3 stations (100%) are within or adjacent to Equity Focus Communities.
Westside Purple Line Extension-Section 1		OK	A	⊗K	Project is 72% complete. The Project is finalizing the current revision of the overall schedule which outlines the path forward to achieving the target substantial completion date of September 2024. Efforts to minimize schedule risk continue. Equity - This Project is not located within or adjacent to Equity Focus Communities.
Westside Purple Line Extension-Section 2	OK	OK	OK	OK	Project is 46% complete and proceeding on schedule and within budget. Equity - This project is not located within or adjacent to Equity Focus Communities.
Westside Purple Line Extension-Section 3	OK	OK	OK OK	OK	Project is 29% complete and proceeding on schedule and within budget. Equity - 1 of 2 stations (50%) are within or adjacent to Equity Focus Communities.
Airport Metro Connector	OK	OK	OK OK	ОК	Early Works Phase is 34% complete. Site work continuing with grading work. Infrastructure for utility line in the Southwestern Yard is complete. Preparing for main communications line ductbank within SWY. Primary station contract process is nearing completion with NTP expected within a month. Equity - 100% of the project is within or adjacent to Equity Focus Communities.
G Line BRT Improvements	OK	OK	OK	OK	Progressive Design Build Contract being finalized for Industry review anticipated Oct 2021. Contract award anticipated Summer 2022. Pilot Gate construction underway. AURs and property acquisitions underway. Equity: 8 of 18 stations (45%) are within or adjacent to Equity Focus Communities
1-5 North County Enhancements	OK	OK	OK	OK	Contractor starts field work in October 2021 with temporary signage/striping and pre-construction site survey. Equity - This project is not located within or adjacent to Equity Focus Communities.
Division 20 Portal Widening Turnback	<u> </u>	<u> </u>	\langle	\lor	Project is approximately 29% complete. Construction continues with the excavation and grading for duct banks and vaults, Portal excavation, utility installation, the 1st Bridge, duct banks and manholes for the Traction Power Substation and MicroLok cutover is ongoing. Unallocated contingency remaining is approximately 13%. An increase in Life of Project (LOP) will need to be explored to increase and restore contingency levels in order to secure adequate budget for completion of the project. LOP increase will be presented in the January Construction Committee meeting. In addition, the project schedule continues to

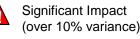
November 2021







Possible problem (5-10% variance)



be developed as the project team is working with the contractor to finalize an updated schedule.

Equity - 100% of the project is within or adjacent to Equity Focus Communities.



SMALL BUSINESS PROJECT STATUS SUMMARY CHART

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Project	Phase	Goal Type	Contractor Commitment	Current Participation	Variance	Comments	
Crenshaw/LAX	Design	DBE	20.00%	20.85%	Exceeding	Walsh/Shea Corridor Constructors, JV is exceeding the DBE commitment by 0.85% on Design and 8.61% on Construction	
	Construction	DBE	20.00%	28.61%	Exceeding		
Regional Connector	Design	DBE	22.63%	24.53%	Exceeding	Regional Connector Constructors is exceeding the DBE commitment by 2.90%	
	Construction	DBE	18.00%	19.69%	Exceeding	on Design and 1.69% on Construction	
Westside Purple Line	Design	DBE	20.25%	20.11%	Shortfall	Skanska-Traylor-Shea Joint Venture (STS) has a DBE shortfall of 0.14% on Design and 2.54% on Construction. STS has provided an updated DBE utilization	
Extension-Section 1	Construction	DBE	17.00%	14.46%	Shortfall	forecast and a shortfall mitigation plan has been requested.	
Westside Purple Line Extension-Section 2	Design	DBE	25.31%	35.11%	Exceeding	Tutor Perini/O&G, A Joint Venture (TPOG) is exceeding the DBE commitment on	
	Construction DBE		17.00%	13.53%	Shortfall	Design by 9.80% and has a shortfall of 3.47% on Construction. TPOG has a shortfall mitigation plan on file and is being monitored.	
Westside Purple Line Extension-Section 3 – Tunnels	Design DBE		11.19%	19.37%	Exceeding	Frontier-Kemper/Tutor Perini JV (FKTP) is exceeding the DBE commitment on	
	Construction	DBE	17.10%	14.27%	Shortfall	Design by 8.18% and has a shortfall on Construction by 2.83%. FKTP has a shortfall mitigation plan on file and is being monitored.	
Westside Purple Line Extension-Section 3 – Stations, Trackwork, Systems and Testing	Design	DBE	19.25%	17.48%	Shortfall	Tutor Perini/O&G, A Joint Venture (TPOG) has a shortfall of the DBE	
	Construction	DBE	21.00%	4.41%	Shortfall	commitment on Design by 1.77% and 16.59% on Construction. TPOG has a shortfall mitigation plan on file and is being monitored.	
Airport Metro Connector (Station)	Construction	SBE	20.79%	0.00%	TBD	Nearing release of NTP	
		DVBE	4.96%	0.00%	TBD		
G Line BRT Improvements	PDB	TBD	TBD	TBD	TBD	Contract Award anticipated Summer 2022	
1-5 North County Enhancements	Construction	DBE	13.01%	0.00%	TBD	Contractor is mobilizing to begin field work in October 2021.	
Division 20 Portal Widening Turnback	_	SBE	19.34%	5.80%	Shortfall	Tutor Perini Corporation (TPC) has a shortfall of the SBE/DVBE commitments by 13.54% SBE and 0.95% DVBE. TPC has a shortfall mitigation plan on file and is being monitored.	
	Construction	DVBE	3.31%	2.36%	Shortfall		

November 2021

Construction Committee



CRENSHAW/LAX TRANSIT PROJECT

BUDGET Approved TIFIA LOP* \$2,148M \$2,058M Variance from Approved LOP:

Variance from Revised Budget:

Previous Period** \$2,148M \$90M (4%)

Current Forecast** \$2,148M \$90M (4%) თ \$0

SCHEDULE (REVENUE OPERATION) **Approved Prèvious** Current Rebaseline Original Period Forecast* Oct.2019 May 2020 Winter 2021 Summer 2022 + 905d (29%) 🛕 Variance from Original: +873d (28%) Variance from Revised Schedule: +652d (27%) +682d (28%) A *Current Forecast is Contractor's August Schedule update

*At time of the award of contract - Board Approval June 2013 **Excludes finance costs and includes \$10M Non-TIFIA activities

- Safety: Project Hours: 11,178,251 Recordable Injury Rate: 1.82 vs The National Average: 2.4 (as of August 31, 2021)
- Overall Project Progress is 99.3% complete.
- Contractor is not applying sufficient specialty work force to complete remaining work, testing/test reports on time.
- Remaining work is primarily underground station finishing, permanent remediations of OCS balance weight assembly NCR issue, the completion of facility equipment, communications and train control system integration testing.
- Metro continues to work with contractor to minimize delays and impacts to the project; emphasizing safety and reliability in final acceptance of project elements and systems.
- Equity 8 of 8 stations (100%) are within or adjacent to Equity Focus Communities.



Expo Station – Continue fine grading the entire Park & Ride area.



Hyde Park – Preparing the floor surface at the south end entrance ramp for coat finish placement

November 2021





Possible problem (5-10% variance)





REGIONAL CONNECTOR TRANSIT PROJECT

BUDGET

**Excludes finance costs

Approved LOP* **FFGA** \$1,402M

\$1,420M **Variance from Approved LOP: Variance from Revised Budget:**

*At time of the award of contract - Board Approval April 2014

Previous Period** \$1,755M

Current Forecast** \$1,755M \$335M (24%) \$335M (24%) 🛕 **\$0**

SCHEDULE

Approved**

Rebaseline Original May 2021 **Fall 2022**

Variance from Original: Variance from Revised Schedule:

(REVENUE OPERATION)

Previous

Period Forecast* Fall 2022

Fall 2022

+480d (19%) +480d (19%) 🔥

0d

Current

*Current Forecast is Metro's October 2021 update

- Safety: Project Hours: 6,547,222 Recordable Injury Rate: 0.73 vs The National Average: 2.4 (as of August 31, 2021)
- Overall Project Progress is 87.5% complete.
- Little Tokyo/Arts District Station & Surrounding Area: Station operations continue to be active at all levels and include MEP, finishes and systems installations. Backfill and street restoration are also progressing.
- Historic Broadway Station: Structural concrete on the Load Transfer System has been completed. Structural backfill, MEP, finishes, and systems installations are all underway. At street-level, backfill and street restoration continue.
- Grand Av Arts/Bunker Hill Station: Pedestrian Bridge pours have been completed. Finishes, systems operations, backfill and street restoration continue. Elevators are the focus and pacing element for the station.
- Flower Street: Removal of temporary concrete deck panels complete. MEP and systems installations continue along the completed guideway. Utility tie-ins are also progressing ahead of on-going backfill.
- Trackwork: Initial pull test completed along alignment. Remedial work along alignment continues on various installations to prepare for acceptance inspections. Grinding and profiling of rail expected to complete early 2022.
- Systems: Installations of traction power, train control and communications continuing; entire alignment now on permanent power; comprehensive systems testing now underway.
- Equity: 3 of 3 stations (100%) are within or adjacent to Equity Focus Communities.

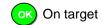


Welding for elevator hoist way frames at Grand Av Arts/Bunker Hill Station



Alameda No. 10 Crossover rail distribution

November 2021





Possible problem (5-10% variance)





^{**}Approval in process

WESTSIDE PURPLE LINE EXTENSION – SECTION 1

BUDGET Approved LOP* ** **FFGA** \$2,822M \$2,774M

Variance from Approved LOP:

Variance from Revised Budget:

Previous Period** \$3,129M \$355M (13%)

Current Forecast** \$3,129M \$355M (13%) 🛕 *At time of the award of contract - Board Approval July 2014





Approved Original Rebaseline Nov.2023

Fall 2024

Variance from Original: Variance from Revised Schedule:

*Current Forecast is Contractor's August Schedule update



Period

Fall 2024

+365d (11%)

Previous Current

Forecast*

Fall 2024

+365d (11%) 🛕 **0d**



- **Fxcludes finance costs
- Safety: Project Hours: 6,157,610 Recordable Injury Rate: 1.27 vs. The National Average: 2.4 (as of August 31, 2021)
- Overall Project progress is 72% complete.
- Wilshire/La Brea Station: Backfill (above the roof) activities, west hammerhead and entrance structure work, interior MEP installation and appendage construction are ongoing.
- Wilshire/Fairfax Station: All concrete roof sections (11 out of 16) for this phase of construction have been placed. East and west hammerhead structure continues. Entrance plaza and appendage work are ongoing. Plenum steel placement (concourse) has started.
- Wilshire/La Cienega Station: All TBM gantries have been removed from the project site. East/west hammerhead structure work and appendage construction are progressing.
- Reach 1 Tunnel: Tunnel invert and walkway concrete activities continue. Track installation commenced in October 2021.
- **Reach 2 Tunnel**: Two out of six cross passages (CPs) have been excavated. Additional grouting on the other CPs is being performed prior to excavation.
- Budget/Schedule: An FTA/PMOC risk assessment has been performed. Results will be shared once findings are analyzed.
- **Equity**: This Project is not located within or adjacent to Equity Focus Communities.



Excavation Complete at Cross Passage #16 (Reach 2)



East Interior Wall Formwork at Wilshire/La Cienega

November 2021





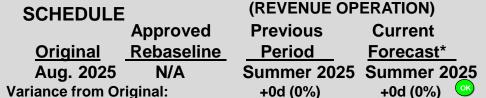
Possible problem (5-10% variance)





WESTSIDE PURPLE LINE EXTENSION – SECTION 2

BUDGET **Previous** Current **Approved** LOP* **FFGA** Period** Forecast** \$2.441M \$2.441M \$2.499M \$2.441M \$0M (0%) **© Variance from Approved LOP:** \$0M (0%) **Variance from Revised Budget:** \$0



Variance from Revised Schedule:

- Overall Project progress is 46% complete as of period ending September 2021.
- Century City Constellation Station
 - Excavation of the station box was 25% complete as of October 15, 2021.
 - Excavation of the station entrance box has commenced.
- Wilshire/Rodeo Station
 - Concrete placement for the first level walls is 51% complete.
- Tunneling
 - Both tunnel boring machines (TBMs) "Ruth" and "Harriet" are operating within the City of Beverly Hills. Progress as of October 18, 2021, is as follows:
 - o Ruth (eastbound subway tunnel) 4,022ft (35%)
 - Harriet (westbound subway tunnel) 4,047ft (35%)
- Equity This project is not located within or adjacent to Equity Focus Communities



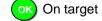
0d

Constellation Station Box Excavation



First Level Walls at Wilshire/Rodeo Station







Possible problem (5-10% variance)



Significant Impact (over 10% variance)



Metro

^{*}At time of the award of contract – Board Approval January 2017
**Excludes finance costs

^{*}Current Forecast is Contractor's April Schedule update

Safety: Project Hours: 2,233,078 Recordable Injury Rate: 3.31 vs The National Average: 2.4 (as of August 31, 2021)

WESTSIDE PURPLE LINE EXTENSION – SECTION 3

BUDGET Approved FFGA LOP*

\$3,224M

Variance from Approved LOP: Variance from Revised Budget: **Previous** Period** \$3,224M

\$OM (0%)

Current Forecast** \$3,224M \$OM (0%) (ox \$0

Mar. 2027

Approved Rebaseline **Original**

N/A

Variance from Original: Variance from Revised Schedule:

*Current Forecast is Contractor's March Schedule update **Approval in process

(REVENUE OPERATION)

Previous Current

Forecast*

Spring 2027

+0d (0%) 🕟 0d



- *At time of the award of contract Board Approval February 2019 **Excludes finance costs

\$3,599M

- Safety: Project Hours: 1,305,735 Recordable Injury Rate: 1.53 vs The National Average: 2.4 (as of August 31, 2021)
- Overall Project Progress is 29% complete.
- Final design progress is 90% complete.
- **Tunneling**
 - TBM Iris (BR) TBM has mined over 1800 feet to date.
 - TBM Aura (BL) Configuration continues for full production mining.
- **Stations**
 - Westwood/VA: Utility relocation continues, installation of dewatering wells in progress.
 - Westwood/UCLA: Utility relocation continues; Support of Excavation pile installation continues along Wilshire Blvd.
- Equity 1 of 2 stations (50%) are within or adjacent to Equity Focus Communities.



Period

Spring 2027

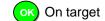
+0d (0%)

Tunneling Overview



SOE Pile Installation for Westwood/UCLA Station







Possible problem (5-10% variance)





SCHEDULE

AIRPORT METRO CONNECTOR (AMC) PROJECT

BUDGET

TOTAL COST

LOP*

\$898.6M

Variance from Approved LOP: Variance from Revised Budget:

Approved Previous Period \$898.6M

\$0M (0%)

Current **Forecast** \$898.6M

> \$0M (0%) **\$0**



SCHEDULE

Original N/A

Approved Rebaseline N/A

Variance from Original:

Variance from Revised Schedule:

*Current Forecast is Metro's May Schedule update

Fall 2024 +0d (0%)

(Revenue Operation)

Previous Current Period

Forecast* Fall 2024

+0 d (0%)





*Approved May 2021 Board

- Early Works Phase construction (34%) complete) continues with final site grading work. Infrastructure work for utility line in SWY is complete. Preparing for installation of temp systems ductbank within Southwestern Yard.
- **Primary Station Construction Contract** nearing release of Notice To Proceed scheduled for Fall 2021.
- Automated People Mover (APM) Station structural concrete completed. Structural Steel installation in progress.
- Equity 100% of the project is located within or adjacent to Equity Focus Communities.



Backfill Work at South End of Site



Utility Work at SWY - Night Shift



LAWA APM Steel Work in Progress



On Site Backfilling Work

November 2021





Possible problem (5-10% variance)





G LINE BRT IMPROVEMENTS PROJECT

BUDGET **Approved** LOP TOTAL COST N/A

Previous Period N/A

Current **Forecast**

Variance from Approved LOP:

\$0M (0%)

\$361M \$0M (0%)

Variance from Revised Budget: *Project will work within the annual budget constraints until LOP is established **SCHEDULE** Original

N/A

Variance from Original:

Variance from Revised Schedule:

Approved Rebaseline N/A

(Revenue Operation)
Previous Curren Period

Current Forecast*

N/A

Dec 2026

+0d (0%)

+0 d (0%)



*Current Forecast is Metro's Internal Schedule, Baseline schedule not yet approved at time of update

- Progressive Design Build Contract in final draft
- Industry Review anticipated week of October 25th
- Pilot Gate construction commenced September 2021
- Owner-performed AURs underway at Sepulveda, Vesper and Sylmar
- Ongoing coordination with interfacing contracts:
 - **ESFV Light Rail Project**
 - District NoHo Joint Development Project
 - LADOT Chandler Bike Path
- Nine Property Acquisitions underway:
 - Two acquisitions in negotiation phase
 - Seven acquisitions in appraisal stage
- PDB RFP anticipated for a Dec 2020 advertisement
- PDB Contract Award anticipated Summer 2022
- Equity: 8 of 17 stations (47%) are within or adjacent to Equity Focus Communities







Pilot Gate - Gate Assembly

November 2021

Construction Committee





I-5 NORTH COUNTY ENHANCEMENTS

BUDGET **Approved** LOP* **TOTAL COST** \$679.3M

Variance from Approved LOP:

Variance from Revised Budget:

Previous Period \$679.3M

\$0M (0%)

Current **Forecast** \$679.3M

\$0M (0%)

\$0







*At time of the award of contract – Board Approval (March 2021)

- (Substantial Completion) **SCHEDULE Approved Previous** Current Rebaseline **Original Period** Forecast* **July 2026** N/A Summer 2026 Summer 2026
- Variance from Original: +0d (0%) Variance from Revised Schedule:

0d (0%)



ОК

*Current Forecast is Metro's Internal Schedule, Baseline schedule not yet approved at time of update

- Contractor starts field work by placing temporary signs and performing pre-construction preparations in October 2021
- Construction Community Meeting Kick-off on October 27th
- Groundbreaking event in early November
- Equity This project is not located within or adjacent to Equity Focus Communities







Contractor is taking survey of pre-construction existing conditions along project corridor

November 2021





Possible problem (5-10% variance)





DIVISION 20 PORTAL WIDENING TURNBACK

BUDGET **Approved** LOP* **TOTAL COST** \$801.7M

Previous Period \$801.7M

Current **Forecast** \$801.7M

Variance from Approved LOP: Variance from Revised Budget: \$TBDM (0%)

\$TBD

\$TBD *At time of the award of contract – Board Approval (February 2020)

SCHEDULE

Original

June 2024

Approved Rebaseline

N/A

Previous Period

June 2024

+0d (0%)

(Substantial Completion)

Forecast* **TBD**

Current

Variance from Original:

Variance from Revised Schedule:

*Current Forecast is Contractor's Schedule update

TBD TBD

Overall Project progress is 29% complete.

Includes Real Estate Acquisitions, Environmental, Design, Contract Mobilization, Early Demolition, Power, Utility contracts and contract change orders

C1136 Portal Widening Turnback Contract

PWT C1136 Contract progress is 32%.

Phase 1 Track, utilities, and civil work continues

1st Street Bridge Rehabilitation and Portal excavation

& first MicroLok cutover ongoing

Major Change Orders to Date:

Hazardous Material Removal

1st Street Bridge Rehabilitation

Completion of Utility Contracts

3rd Party Unforeseen Interfaces

Design Revisions (in progress)

- C1184 Traction Power Substation Contract at 64%
- **Coordination with Adjacent Projects**

Purple Line Extension (PLE1)

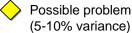
Regional Connector; Metro Center Project

6th Street Bridge (City of L.A. Project)

- Continued Regular risk assessments to determine budget/schedule
- Equity 100% of the project is located within or adjacent to Equity Focus Communities

November 2021







Significant Impact (over 10% variance)



Construction Committee

Los Angeles County Metropolitan Transportation Authority