

Transit & Highway (Capital) Update

Measure M Oversight Committee

October 2024

Julie Owen

Sr. EO, Project Management Oversight

Transit / Highway Engineering and Construction

Construction Projects

- Gold Line Foothill Extension Phase 2B – Pomona
- Airport Metro Connector
- Westside Purple Line – Section 3
- 15N County Enhancements

Alternative Delivery Projects



- 105 Express Lanes
- G Line BRT Improvements Project
- East San Fernando Valley Transit Corridor
- North Hollywood to Pasadena BRT Project

Operational Projects



- North San Fernando Transit Corridor Project



Gold Line Foothill Extension Phase 2B

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$1,533M	1,533M	\$1,533M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:			\$0 

* At time of the award of contract – Board Approval (June 2017)

SCHEDULE			Revenue Operation	
	Original *	Approved Rebaseline	Previous Period	Current Forecast**
	January 2025	N/A	Summer 2025	Summer 2025
	Variance from Original:		0d (0%)	0d (0%) 
	Variance from Revised Schedule:		n/a	n/a 

* The Original date reflects the Authority's Substantial Completion date

** Current Forecast is from the Authority's June 2023 Schedule Update. Authority forecasts Substantial Completion at January 2025, and assumes Revenue Operation will follow 6 months later.



Gold Line Foothill Extension Phase 2B

Safety

- Project Hours: 2,172,393
- Recordable Injury Rate: 0.28 vs. the National Average: 2.4.

Updates

- **Overall Project Progress is 86% complete**

Construction is planned and will continue as follows:

- Sound wall and fencing throughout the project
- 4 new stations: Glendora, San Dimas, La Verne, and Pomona
- LRT train control, Overhead Catenary System (OCS) poles and wire installation
- Continue local field acceptance testing for traction power substations (TPSS's)
- Begin systems integration testing

Equity

- 25% of the project is located within or adjacent to Equity-Focus Communities.

Fulton to Garey - OCS



San Dimas Avenue – Roadway Paving



July 2024 Construction Committee

Los Angeles County Metropolitan Transportation Authority

LAX/Metro Transit Center (AMC)

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$898.6M	\$898.6M	\$898.6M
	Variance from Approved LOP:	\$0M (0%)	\$0M (0%)	OK
	Variance from Revised Budget:		\$0	OK

* Approved April 2021 Board

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	Fall 2024	N/A	Fall 2024	Fall 2024
	Variance from Original:		+0d (0%)	+0d (0%) OK
	Variance from Revised Schedule:			N/A OK

** Current Forecast is Metro's June 2023 Schedule Update



LAX/Metro Transit Center (AMC)

Safety

Project Hours: 948,198; Recordable Injury Rate: 1.69 vs.
The National Average: 2.4.

Updates

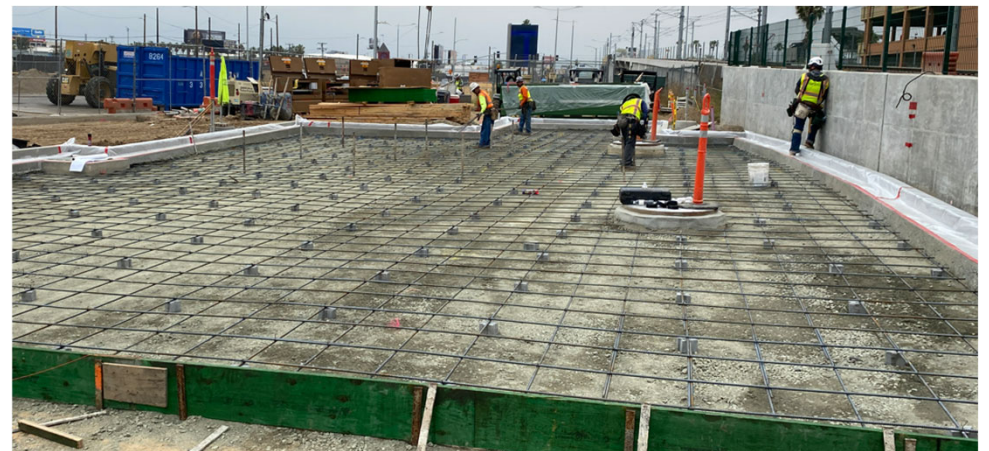
Overall project progress is 84.8% complete

Primary Station Construction at 81.6% completion

- Various activities continue at the roof/ceiling level including fire sprinkler system, exterior soffits, overhead utilities, tech bar, and fireproofing
- Station build-outs continue including interior and exterior wall framing, architectural metal mesh panels, interior framing & drywall, utility rough-ins, mechanical system, electrical system, low voltage systems, and wire pulling.
- Begin installation of platform fence and ballast retainer wall fence
- Continuation of all vertical circulation system work including elevator & escalator systems, and terrazzo stair finishes.
- Aviation Blvd B-Permit approved by City of Los Angeles. Demolition and grading operation commenced.
- Train Control SIT-1 testing has been completed.
- Construction trailers removed from site to further progress on sitework.
- Roadway and Hardscape activities progressing site-wide

Equity



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



July 2024 Construction Committee



Los Angeles County Metropolitan Transportation Authority

Westside Purple Line Extension – Section 3

BUDGET				
	FFGA	Approved LOP*	Previous Period**	Current Forecast**
	\$3,599 M	\$3,224 M	\$3,277 M	\$3,277 M
	Variance from Approved LOP:		+\$53M (1.6%)	+\$53M (1.6%) 
	Variance from Revised Budget:			\$0 

* At time of the award of contract – Board Approval February 2019

** Excludes finance costs. In June 2023, the Board approved \$53M LOP increase for Concurrent Non-Full Funding Grant Agreement (Non-FFGA) activities.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	March 2027	Summer 2027	Summer 2027	Summer 2027
	Variance from Original:		+131d (3.91%)	+131d (3.91%) 
	Variance from Revised Schedule:			+0d (0%) 

* Based upon agreed acceleration modification.



Westside Purple Line Extension – Section 3

Safety

Project Hours: 3,280,555 Recordable Injury Rate: 1.46 vs. The National Average: 2.4.

- C1151: Project Hours: 1,711,660; Recordable Injury Rate: 2.45.
- C1152: Project Hours: 1,568,895; Recordable Injury Rate: 0.38.

Updates

- **Overall Project Progress is 52% complete.**
- **Final design progress is 97% complete.**
- **Westwood/UCLA Station**
 - Excavation is 95% complete. Walers and struts continue to be installed at level 5; 92% of walers and struts have been installed.
- **Westwood/VA Hospital Station**
 - Excavation is 93% complete. Walers and struts continue to be installed at level 5; 92% of struts and walers have been installed. 95% of tiebacks and shotcrete have been installed.
 - Mechanical, Electrical, and Plumbing fit-out inside the VA steam tunnel is 99% complete.
- **Tunnels**
 - Cross passage work in the tunnels continues.

Equity

- 1 of 2 stations (50%) are within or adjacent to Equity Focus Communities.



Westwood/UCLA Station:
Placing Shotcrete for Row 4 Soil Nails at East Headwall





Westwood/VA Hospital Station:
Excavation in Station Box





July 2024 Construction Committee

Los Angeles County Metropolitan Transportation Authority

I-5 North County Enhancements

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$679.3M	\$679.3M	\$679.3M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:			\$0 

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

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



I-5 North County Enhancements

Safety

Project Hours: 650,956; Recordable Injury Rate: 0.92 vs.
The National Average: 2.4.

Updates

- **Overall Project progress is 38.4% complete.**
- Construction Stage 1, Phases 1 & 2 continues:
 - Work on 5 bridges throughout the project.
 - Construction of approximately 15 Retaining Walls on-going throughout the project.
 - On-going Drainage, Electrical, Barrier, and Signage work in the Median.
 - Lean Concrete Base (LCB) placement and Jointed Plain Concrete Paving (JPCP) in the median.
- Preparations for the first 30-day ramp closure at Calgrove Blvd. which is planned for the coming months.
- Project Team continues to coordinate with various stakeholders.

Equity

- This project is not located within or adjacent to Equity Focus Communities.



On-going work at Retaining Wall 2577



Jointed Plain Concrete Paving in Median





Projects without Life of Project (LOP) Budget

Engineering Projects



- **105 Express Lanes**
- **G Line BRT Improvements Project**
- **East San Fernando Valley Transit Corridor**
- **North Hollywood to Pasadena BRT Project**



105 Express Lanes

BUDGET				
		Approved Budget to Date	Previous Period	Current Forecast
	Pre-Construction	\$119 M	\$119 M	\$119 M
	Project	N/A	\$1B - \$1.44B	\$1B - \$1.44B
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0 M (0%) 
	Variance from Approved LOP:		N/A	N/A 
	Variance from Revised Budget:			\$0M

The Revised Forecast is derived from the ongoing Project estimate, which is in progress following the recent finalization of OPCC for Segment 1 and a more precise estimate for Segments 2 & 3 by CMGC.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast
	N/A	N/A	Spring 2028*	Spring 2028* 
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:		N/A	N/A

**Note: Spring of 2028 operation is for Segment 1. Segment 2/3 currently is forecasting Spring of 2029*



105 Express Lanes

Safety

- Project Construction Hours: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4.

Updates

Design is 80% complete.

Segment 1

- 100% Opinion of Probable Construction Cost (OPCC) was submitted. Agreed-to-Price achieved in December 2023
- Sub-contractor bid packages are released. Final pricing and Segment 1 LOP is expected to go to the Board in October 2024
- Equity Assessment is in progress; seven roundtable meetings held to date with Community Based Organizations
- Receipt of State's funding allocation of \$150M from California Transportation Commission (CTC) in May 2024

Segment 2 and 3

- 95% design is in progress and 100% design will be complete by late summer 2025
- 65% OPCC has been submitted and is under evaluation
- Value engineering is underway to reduce cost. Proposed value engineering elements is under review by Caltrans
- Segment 3 design is coordinating with Southeast Gateway Line project

Roadside Toll Collection System (RTCS)

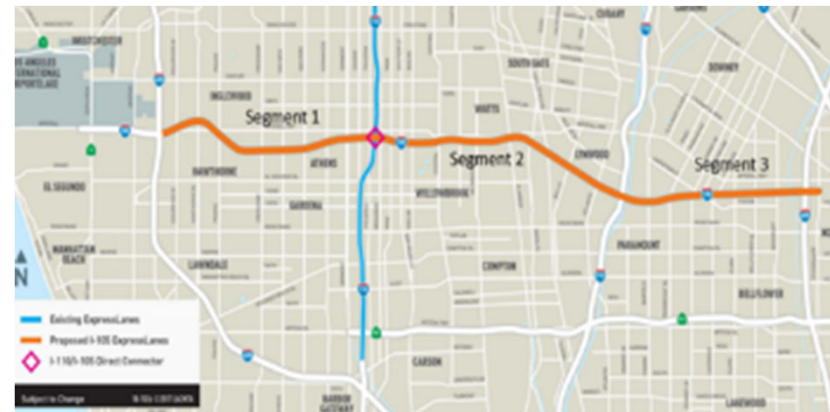
- Started Milestone A-3: Requirements Traceability Matrix Approval
- Completion of initial drafts Roadside System Detailed Design Documents
- Continued progress on RTCS Infrastructure Design Document

Equity

- 92% of the project is within or adjacent to Equity Focus Communities.



Traffic on 105 Freeway Eastbound






The Project Map





July 2024 Construction Committee

Los Angeles County Metropolitan Transportation Authority

G Line BRT Improvements

BUDGET				
		Approved Budget to Date	Previous Period	Current Forecast
	Pre-Construction	\$149.7M*	\$149.7M	\$149.7M
	Project	N/A	\$488.1-511M	\$488.1-511M**
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:		N/A	N/A 
	Variance from Revised Budget:			\$0M 

*Approved Budget only includes the Pre-Construction Budget. The project will request LOP budget prior to PDB Contract Phase 2 award. **Based on implementing value engineering and cost reduction measures shared at the November 2023 Construction Committee Meeting.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast
	N/A	N/A	December 2026***	December 2026***
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

***Current Forecast is Phase 2 Substantial Completion milestone, Phase 2 baseline schedule is not yet approved.



July 2024 Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem
(5-10% variance)



Significant Impact
(over 10% variance)

G Line BRT Improvements

Safety

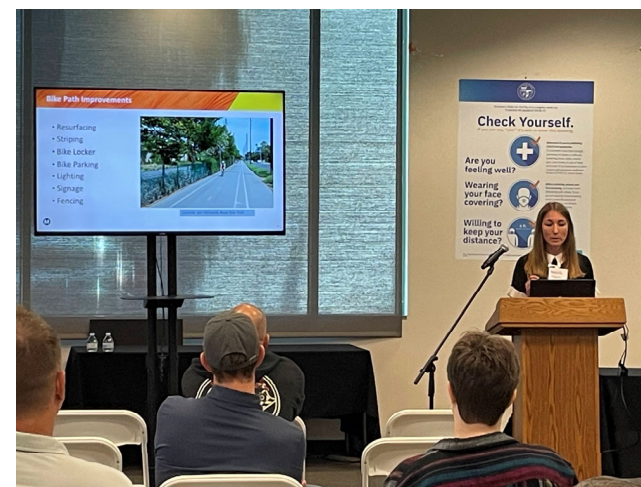
Project Construction Hours: 0; Recordable Injury Rate: N/A vs. National Average: 2.4.

Updates

- **Progressive Design Build Contract**
 - Continue to pursue scope refinements discussed at November Board to address affordability issues
 - Ongoing outreach to communicate project status and scope refinements, including in-person and virtual Community Meetings in May
 - 100% Van Nuys and Bike Path Improvements are underway and 60% Sepulveda design is under review.
 - Safe Clean Water Program voted to remove G Line Stormwater Capture scope from the Program.
 - California Transportation Commission (CTC) approved Scope Amendment based on scope refinements with approximate \$11M grant adjustment
 - Advancing Gated Intersections Alternative including gates at 13 intersections and traffic signal reservicing at remaining crossings
 - Pursuing Early Work Packages (EWPs) for 85-100% design and pilot gate
- **Utility Owner-Performed Advanced Utility Relocation (AURs)**
 - Sepulveda – removal of poles and overhead wires pending PDB contractor installation of new power service
 - Vesper – DWP relocation complete, Charter cutover pending
 - Sylmar – AUR completed. Department of Water and Power (DWP) undergrounding complete. Charter vacated.
- **Property Acquisitions**
 - Value Engineering Alternatives eliminated five of eight acquisitions
 - Metro has obtained possession of two of three required properties

Equity

- 15 of 17 stations (88%) are within or adjacent to Equity Focus Communities.





May Community Meeting





July 2024 Construction Committee

Los Angeles County Metropolitan Transportation Authority

East San Fernando Valley Transit Corridor

BUDGET				
		Approved Budget to Date*	Previous Period	Current Forecast
	Pre-Construction	\$496.9M	\$496.9M	\$496.9M
	Project	N/A	\$3.57B	\$3.57B
	Variance from Approved Pre-Construction Budget:		\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:		N/A	N/A
	Variance from Revised Budget:			\$0M 

*The Board has only approved a Pre-Construction Budget to date.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	N/A	N/A	September 2031	September 2031
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

**Current schedule forecast reflects Metro's Internal Schedule. The actual Baseline schedule will be negotiated with Progressive Design Builder as part of the Phase 2 Supplement.



East San Fernando Valley Transit Corridor

Safety

C1220 Contract Hours Worked: 33,954; Recordable Injury Rate: 0 vs. National Average: 3.0



Updates

- **FTA Coordination**
 - Final documentation required to address requirements in LOI sent to FTA on May 10, 2024
 - FTA/PMOC completing evaluation, target FFGA Sept 2024
- **Progressive Design-Build Contract**
 - Ongoing negotiations for Early Work Packages (EWPs)
 - EWP-01 – Design Studies – ROM \$4.8M - target July Award
 - EWP-02 – Initial Integrated Project Mgmt. Office – ROM \$8.8M - target July Award
 - EWP-03 – Utility Adjustment Packages 4 & 6 – target Sept Award
 - EWP-04 – Final Design – target July Award
- **Real Estate**
 - Offers have been made on 11 properties.
 - 8 properties have accepted offers
 - Condemnation process will start this summer for parcels which did not accept offers.
- **Construction - Advance Utility Adjustment #1 (C1220)**
 - Construction complete, DWP initiated intercept work May 2024.
- **Light Rail Vehicle (LRV) Procurement**
 - NTP was issued to Hatch Associates Consulting, Inc. on May 28, 2024 to serve as the Vehicle Specialist Consultant
 - LRV Manufacturing Contract anticipated to be advertised in early 2025.
- **Equity**
 - 100% of the project is within or adjacent to Equity Focus Communities.





July 2024 Construction Committee

North Hollywood to Pasadena BRT

BUDGET				
		Approved Budget to Date*	Previous Period	Current Forecast
	Project	N/A	\$263M-386M	\$308-515M
	Variance from Approved LOP:		N/A	N/A 
	Variance from Revised Budget:			N/A 

* Project will work within the annual budget constraints until Life of project (LOP) is established. The goal is to use CM/GC process to reduce forecasted project costs.

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast**
	N/A	N/A	Summer 2027	Summer 2027
	Variance from Original:		N/A	N/A 
	Variance from Revised Schedule:			N/A 

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



North Hollywood to Pasadena BRT

Safety

- Project Construction Hours: 0; Recordable Injury Rate: N/A vs. National Average: 2.4.

Updates

Design is 25% complete.

- Environmental Impact Report (EIR) Approved April 2022
- Program Management Support Service (PMSS) awarded in March 2024
- Architect & Engineering (A&E) contract awarded in May 2024
- Construction Manager/General Contractor (CM/GC) Proposals received in April and are being evaluated

Equity

- 60% of the project is within or adjacent to Equity Focus Communities



Project Map



View of Vineland Ave / Lankershim Blvd







Operational Projects

- **North San Fernando Transit Corridor Project**



NSFV Transit Corridor Project

BUDGET				
		Approved LOP	Previous Period	Current Forecast
		\$180M	\$180M	\$180M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:			\$0 

SCHEDULE			Substantial Completion	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	Summer 2025	N/A	Summer 2026	Summer 2026
	Variance from Original:		+0d (0%)	+0d (0%) 
	Variance from Revised Schedule:			N/A 

**Project elements delivered incrementally. Likely, last elements to be completed are expected to be ZEB and charging*



NSFV Transit Corridor Project

Safety

Project Construction Hours: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4.

Updates

- **Roscoe BI Bus Priority Lanes**
 - 100% design approved by City
 - Installation by City of LA started June 24 for completion in Q2 FY25
- **All Door Boarding**
 - 200 pilot BMVs testing in Q3-Q4 FY24
 - 2,900 BMVs for delivery and install by end of FY25 (incl. 330 for NSFV)
- **Bus Bulbs (82 locations)**
 - Contract Modification for design services to Board for approval Sep 2024.
 - Design to begin in Q2 FY25
- **5 Key Transfer Locations**
 - Contractor collected data in Q4 FY24
 - Design to be finalized and construction to begin in FY25
- **Bus Shelters**
 - Construction and installation agreement for 393 shelters executed 10/2023
 - Installations expected to begin by Q2 FY25 by StreetsLA
- **Transit Signal Priority (7 Corridors)**
 - 35% design
 - Installation to begin Q2 FY25
 - Completion by Q4 FY25
- **75 Battery Electric Buses + Charging**
 - Included under current ZEB procurement issued April 20, 2024. Award Q4 FY25
- **Service Frequency Improvements on Lines 152 (Roscoe) and 166 (Nordhoff)**
 - Implementation of first phase June 2024. More improvements by end of FY25
- **Equity**
 - 42% of the project improvements are located within or adjacent to Equity Focus Communities



Rendering of an improved stop on Nordhoff/Lindley

