

Transit & Highway (Capital) Update

Measure M Oversight Committee

June 2024

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: 2,062,483
- Recordable Injury Rate: 0.19 vs. the National Average: 2.4.

Updates

- **Overall Project Progress is 83% 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, OCS poles and wire installation
- Continue local field acceptance testing for TPSS's
- Begin systems integration testing

Equity

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



Pomona Station—East Ramp





MOW at Garey - Track construction



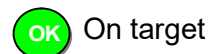
LAX/Metro Transit Center (AMC)

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

* 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%) 
Variance from Revised Schedule:			N/A 	

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



LAX/Metro Transit Center (AMC)

Safety

Project Hours: 835,792; Recordable Injury Rate: 1.68 vs. The National Average: 2.4.

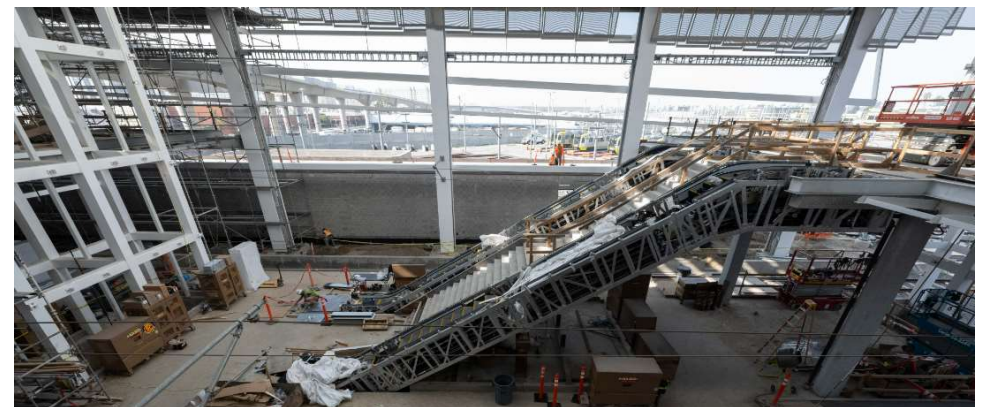
Updates

Overall project progress is 75.4% complete
Primary Station Construction at 70.3% completion

- Various activities continue at the roof level including skylight glass, fire sprinklers, exterior soffits, overhead utilities, finishes, roof panels, and fireproofing.
- Station build-outs continue including interior and exterior wall framing, drywall, utility rough-ins, and electrical panel installations
- Continuation of all vertical circulation system work with installation of multiple escalators and utilities in elevator shafts.
- Train control testing has begun with LFATs and LRV clearance tests
- Honeywell (Third-Party) installing groundwater wells

Equity



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



March 2024 Construction Committee



Los Angeles County Metropolitan Transportation Authority

Westside Purple Line Extension – Section 3

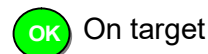
BUDGET	FFGA	Approved LOP*	Previous Period**	Current Forecast**
	\$3,599 M	\$3,224 M	\$3,277 M	\$3,277 M
	Variance from Approved LOP:		+\$53M (1.6%)	+\$53M (1.6%) 
	Variance from Revised Budget:			\$0 

* 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: 3,098,944 Recordable Injury Rate: 1.36 vs. The National Average: 2.4.

- C1151: Project Hours: 1,645,667; Recordable Injury Rate: 2.55.
- C1152: Project Hours: 1,453,277; Recordable Injury Rate: 0.0.

Updates

- **Overall Project Progress is 50.8% complete.**
- **Final design progress is 97% complete.**
- **Westwood/UCLA Station**
 - Excavation is 74% complete. Walers and struts continue to be installed at level 4; 66% of walers and struts have been installed.
- **Westwood/VA Hospital Station**
 - Excavation is 82% complete. Walers and struts continue to be installed at level 4; 72% of struts and walers have been installed. 86% of tiebacks and shotcrete have been installed.
 - Mechanical, Electrical, and Plumbing fit-out inside the VA steam tunnel is 93% complete.
- **Tunnels**
 - BR Tunnel Boring Machine (TBM) disassembly and extraction was completed; BL TBM disassembly and extraction is ongoing. Cross passage work in the tunnels continued.

Equity

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

Progress to 2/2/24



**Westwood/UCLA Station:
Soil Nail Operation at the West End Wall**





**Westwood/VA Hospital Station:
BR Tunnel Liner Removal in Excavated Station Box**





March 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	Current Forecast
	July 2026	N/A	Summer 2026
Variance from Original:			+0d (0%) 
Variance from Revised Schedule:			N/A 



I-5 North County Enhancements

Safety

Project Hours: 525,689; Recordable Injury Rate: 1.16 vs. The National Average: 2.4.

Updates

- **Overall Project progress is 37.05% complete.**
- Construction Stage 1, Phases 1 & 2 continues:
 - Work on 4 bridges throughout the project.
 - Construction of approximately 9 Retaining Walls on-going throughout the project.
 - On-going Drainage, Electrical, Barrier/Roadway Demo, Excavation, and Base Placement.
 - Lean Concrete Base (LCB) placement in the median.
- Project Team continues to coordinate with stakeholders: Caltrans, City of Santa Clarita, Los Angeles County, CHP, NPS, CDFW, SCVWA, and other local stakeholders.

Equity

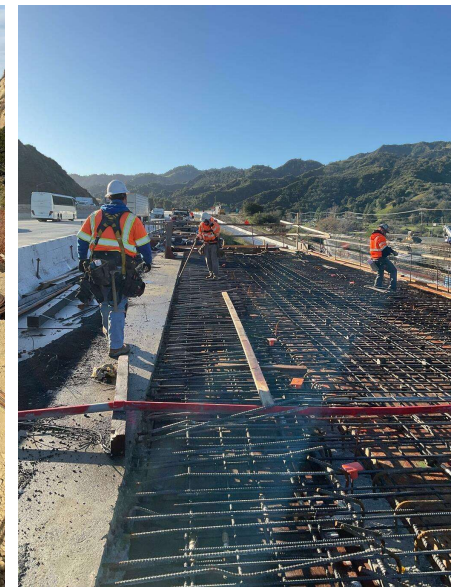
- This project is not located within or adjacent to Equity Focus Communities.



Placement of Lean Concrete Base (LCB) in the median



Rebar Installation at Retaining Wall 2460



Preparation for concrete Pour of deck at Calgrove Blvd.



March 2024 Construction Committee



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	\$119.4 M		\$119.4 M	\$119.4 M
	Project	N/A		\$780M - \$1B	\$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:				\$220M-\$440M

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	



105 Express Lanes

Safety

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

Updates

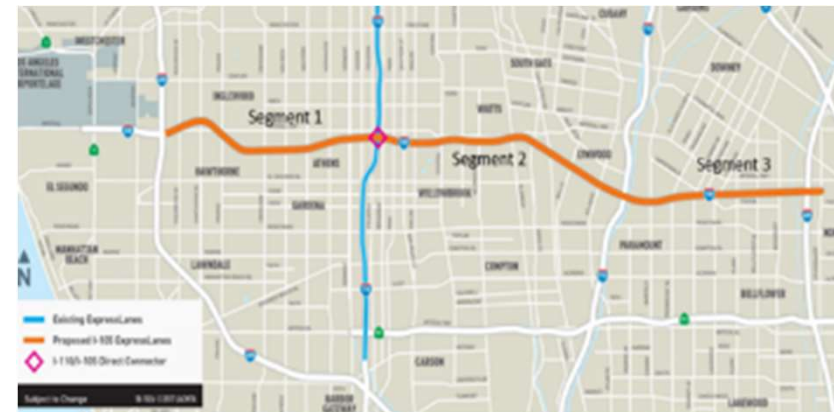
- **Design is 80% complete**
- **Program Management**
 - Traffic and Revenue Study Update is in progress
 - Value engineering effort underway to reduce cost.
 - Equity Assessment is in progress; two meetings held with CBOs
- **Design**
 - Segment 1 design is adopting value engineering strategies to reduce construction cost. This will require Caltrans review and approval which is anticipated by September 2024.
 - 65% design for Seg 2/3 submitted and has received comments from Caltrans. Project team is considering implementing value engineering items to Seg 2/3 to reduce construction cost.
- **Construction Manager/General Contractor (CMGC)**
 - Final OPCC negotiation completed with the CMGC for Seg 1. OPCC price does not reflect sub-contractor package updates yet to be completed.
 - Interface meetings with SEGL and Metro MOW in progress
- **Roadside Toll Collection System (RTCS)**
 - Revisions to the System Detailed Design Document (SDDD) are in progress.
 - System Design Workshops are scheduled to begin in Q1.
 - 35% Designs for Segment 1 are under Metro Review.

Equity

- 70% of the project is within or adjacent to Equity Focus Communities.



Traffic on 105 Freeway Westbound






The Project Map





March 2024 Construction Committee

G Line BRT Improvements

BUDGET	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$149.7M*		\$149.7M	\$149.7M
	Project	N/A		\$392-511M	\$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 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.




March 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, including ongoing community outreach
 - 85% design for Bike Path Improvements complete. 85% Van Nuys design and 60% Sepulveda Grade Separation VE design underway.
 - Stormwater Capture design suspended pending scope modification approval from Safe Clean Water Program
 - Advancing Gated Intersections Alternative including gates at 13 intersections and traffic signal reservicing at remaining crossings
 - Pursuing EWP for 85-100% design and pilot gate
- **Utility Owner-Performed AURs**
 - Sepulveda – removal of poles and overhead wires pending PDB contractor installation of new power service
 - Vesper – overhead to underground relocation complete
 - Sylmar – DWP undergrounding complete. Charter planning to vacate line by end of February 2024
- **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.



Potholing Restoration on Bessemer St.





Pothole Restoration on Kester Ave





March 2024 Construction Committee

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.



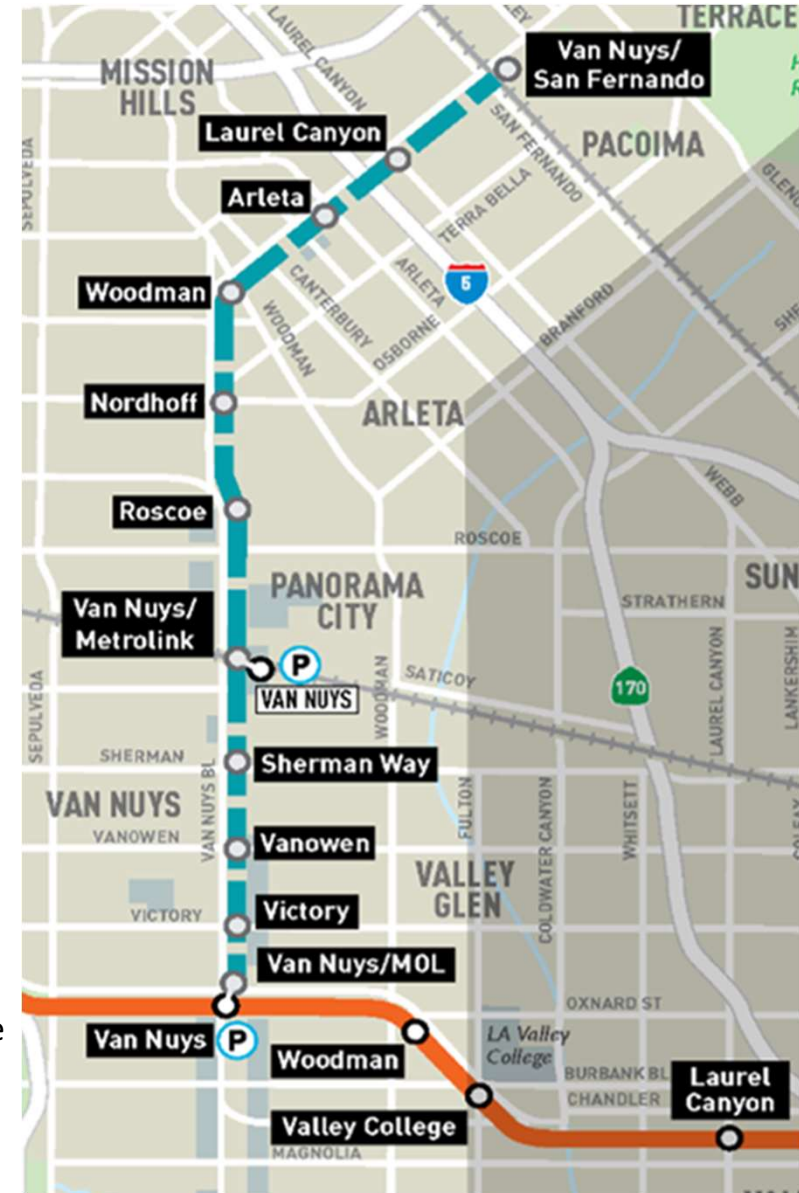
East San Fernando Valley Transit Corridor

Safety

C1220 Hours Worked – 20,810; Recordable Injury Rate: 0 vs. National Average: 2.4



Updates

- **Preliminary Engineering**
 - 60% Utility Composite plans are being finalized
 - Advancing utility adjustment packages to AFC
- **C1220 - Advance Utility Adjustment #1**
 - Project is 94% complete; will be Substantially Complete on March 2024
- **FTA Coordination**
 - FFGA draft application documents submitted on 12/1/23
 - Metro continues to work with FTA to finalize FFGA application
- **Progressive Design-Build Contract**
 - Ongoing negotiations for Early Work Packages (EWPs)
 - EWP-02 – Integrated Project Mgmt. Office contract MOD is being finalized
 - Other EWPs currently under negotiation to be issued this spring:
 - EWP-01 – Early Design Studies
 - EWP-03 – Utility Adjustment Packages 4 & 6
 - EWP-04 – Final Design
- **Real Estate**
 - Acquisition efforts are underway on 16 MSF parcels and 4 TPSS Sites.
 - Offers have been made on 8 MSF properties.
 - Offers under internal review on 2 MSF properties and 1 TPSS site.
 - One MSF parcel in escrow.
- **Light Rail Vehicle (LRV) Acquisition**
 - RFP for LRV procurement consultant was issued in October. Proposals were received in January. Anticipated Award Spring 2024.
- **Equity**
 - 100% of the project is within or adjacent to Equity Focus Communities.





March 2024 Construction Committee

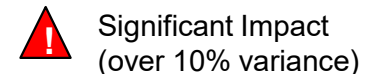
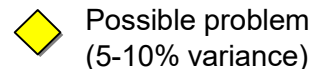
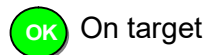
North Hollywood to Pasadena BRT

BUDGET	Approved Budget to Date*			Previous Period	Current Forecast
	Project	N/A		\$263M-386M	\$263M-386M
	Variance from Approved LOP:			N/A	N/A 
	Variance from Revised Budget:				\$0M 

* Project will work within the annual budget constraints until LOP is established.

SCHEDULE	Approved Rebaseline		Revenue Operation	
	Original	N/A	Previous Period	Current Forecast**
	N/A	N/A	Summer 2027	Summer 2027
	Variance from Original:		+0d (0%)	+0d (0%) 
	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

- EIR Approved April 2022
- PMSS RFP, released July 2023 response received in September 2023
- A&E RFP, released in August 2023 response received in November of 2023
- CM/GC RFP released January 2024, responses expected April 2024

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**

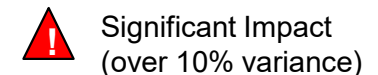
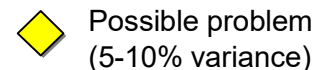
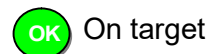


NSFV Transit Corridor Project

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	N/A	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**
 - 85% design
 - Installation by City of LA scheduled for June 24
- **All Door Boarding**
 - 200 pilot BMVs testing in Q3-Q4 FY24
 - 2,900 BMVs for delivery and install by end of FY25 (includes 330 for NSFV Project)
- **Bus Bulbs (82 locations)**
 - Preparing scope for design contractor to be completed by end of FY24
 - Design to begin in early FY25
- **5 Key Transfer Locations**
 - Contractor collecting data for design 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 to be issued in Q4 FY24
- **Service Frequency Improvements on Lines 152 (Roscoe) and 166 (Nordhoff)**
 - Begin implementation June 2024 with launch of Roscoe BI Bus Priority Lanes

Equity

- Majority of the project improvements are located within or adjacent to Equity Focus Communities.



Rendering of an improved stop on Nordhoff/Lindley



March 2024 Measure M Committee