



**Board Report**

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**File #:** 2023-0062, **File Type:** Oral Report / Presentation

**Agenda Number:** 8.

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**MEASURE M INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE  
MARCH 1, 2023**

**SUBJECT: ORAL REPORT ON TRANSIT AND HIGHWAY PROJECTS**

RECEIVE oral report on Transit and Highway Projects.

**ATTACHMENTS**

Attachment A - Program Management Update

Attachment B - Transit Planning Update

Attachment C - Complete Streets & Highways Update



# **Program Management**

## **Quarterly Major Project Status Report**



**Measure M Independent Oversight Committee**

March 1, 2023

# Gold Line Foothill Extension Phase 2B

BUDGET				
		Approved LOP*	Previous Period	Current Forecast
		\$1,532.8 B	1,532.8 B	\$1,532.8 B 
	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			Substantial Completion	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	January 2025	N/A	Fall 2024	Fall 2024
	Variance from Original:		+0d (0%)	-29d (-2%) 
Variance from Revised Schedule:			TBD 	

\* Current Forecast is Contractor's October 2022 Schedule Update.



# Gold Line Foothill Extension Phase 2B

## Safety

- Project Hours: 777,777 Recordable Injury Rate: .85 vs. The National Average: 2.4.

## Updates (Metro Gold Line Foothill Extension Authority)

- **Overall Project Progress is 65% complete.**

Completed Fulton Grade Crossing, Foothill/Grand Bridge post tension and form removal, Lone Hill Structure deck rebar and conduit installation, Lone Hill TPSS Anchoring, 210 Freeway Freight Temporary Shoofly.

- The Contractor Kiewit Parsons Joint Venture (KPJV) has completed work at more than half of the grade crossings, completed the freight track relocation and have started work on all bridges.

The design of the 9 mile, 4 Station extension is substantially complete.

Four new light rail stations are under construction.

CPUC has approved 49 of 49 grade crossings to date.

- Construction Continues at:

Glendora, San Dimas, La Verne and Pomona Stations

Foothill/Grand Ave, Foothill/Grand Ave and Lone Hill LRT Bridges

Anchored Lone Hill TPSS

Construction of SCRRRA Maintenance-of-way building

210 and 57 Freeway anchor and support walls

Construction of MSE retaining walls throughout the project

Light rail alignment track construction

LRT train control installation



## Equity

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

Foothill Grand - LRT ductbank walkway





# Westside Purple Line Extension – Section 3

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

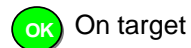
\* At time of the award of contract – Board Approval February 2019

\*\* Excludes finance costs

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

\* Current Forecast is Contractor's Schedule Update.

\*\* Approval in process



On target



Possible problem  
(5-10% variance)



Significant Impact  
(over 10% variance)

# Westside Purple Line Extension – Section 3

## Safety

Project Hours: 2,231,464; Recordable Injury Rate: 1.43 vs. The National Average: 2.4.

- C1151: Project Hours: 1,179,969; Recordable Injury Rate: 2.71.
- C1152: Project Hours: 1,051,495; Recordable Injury Rate: 0.0.

## Updates

- **Overall Project Progress is 44% complete.**
- **Final design progress is 97% complete.**
- **Tunneling**
  - Both tunnel boring machines (TBMs) “Aura” and “Iris” continue mining toward Century City. Progress as of November 28, 2022, is as follows:
  - Iris “BR TBM” (westbound subway tunnel) – Reach 6: 7,162 ft. (75%), overall: 11,140 ft. (82%).
  - Aura “BL TBM” (eastbound subway tunnel) – Reach 6: 6,313 ft. (66%), overall: 10,277 ft. (76%).
- **Westwood/UCLA Station**
  - Station roadway deck panels are completed, and station excavation continues from UCLA Lot 36.
- **Westwood/VA Station**
  - Station excavation started on October 24, 2022, and continues.
  - The VA steam tunnel relocation work continues; Mechanical, Electrical, and Plumbing fit-out inside the steam tunnel (35% complete); redundant VA steam line is completed.
  - Supports built under utilities crossing the station to support utilities during station excavation.
  - Installation of 12” water supply from vault 400 to the street connection is ongoing.
  - Installation of dewatering wells and geotechnical instrumentation continues.

## Equity

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





**Westwood/UCLA Station:  
Installing Temporary Deck Panels in Wilshire Blvd**





**Westwood/VA Station: Excavating station to Level 1 Bracing**



# Airport Metro Connector (AMC) Project

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*
	N/A	N/A	Fall 2024	Fall 2024
	Variance from Original:		+0d (0%)	+0d (0%) 
Variance from Revised Schedule:			N/A 	

\* Current Forecast is August 2022 Schedule Update



# Airport Metro Connector (AMC) Project

## Safety

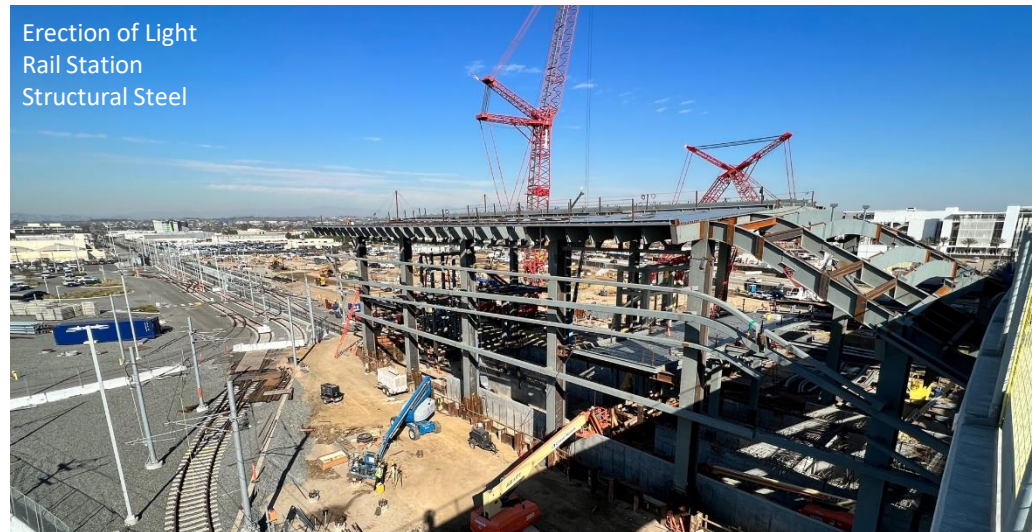
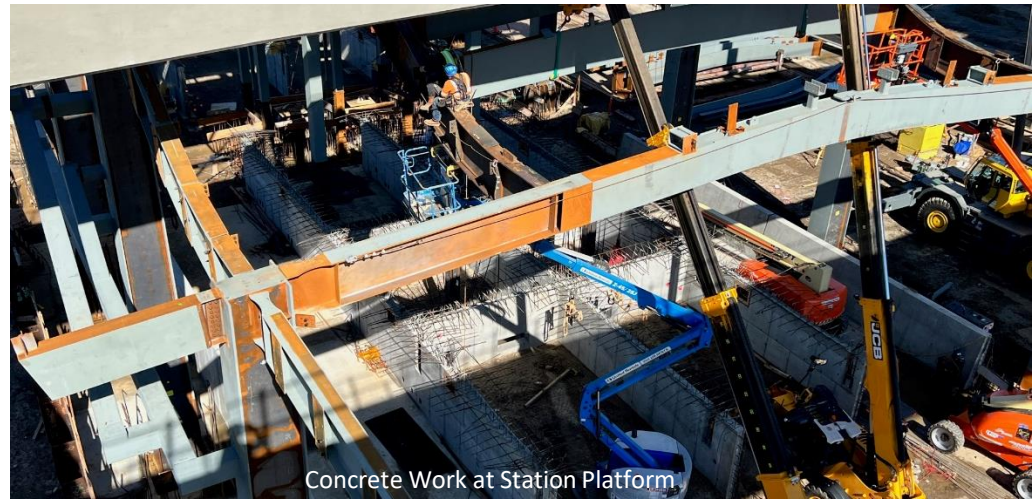
Project Hours: 206,985; Recordable Injury Rate: 2.9 vs. The National Average: 2.4.

## Updates

- **Overall project progress is 30% complete.**
- Early Works Phase construction is 99% complete and in the close-out phase.
- North Turn back and reconfiguration with turnback facility is completed and in full operations for segmented CLAX Line service.
- Primary Station Construction (30% complete) has now come out of the ground with erection of structural steel at light rail platform. Station platform concrete, underground utilities, and procurement of long-lead material continues. Work within the Light Rail Transit (LRT) area was expedited.

## Equity

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





January 2023 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 2016	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: 156,114; Recordable Injury Rate: 0.00 vs. The National Average: 2.4.

## Updates

- **Overall Project progress is 18% complete.**
- Construction Stage 1, Phase 1 & 2:
  - Partial Demolition/Pile Driving/Footing and Abutment/Bent Construction on several bridges.
  - Retaining Walls, Drainage, Barrier/Roadway Demo, Excavation, and Base Placement.
- Project Team continues to coordinate with stakeholders: Caltrans, Federal Highway Administration (FHWA), City of Santa Clarita, Los Angeles County, CHP, NPS, CDFW, and other local stakeholders.
- Single-direction freeway closures occurred in December 2022 to support Weldon Canyon bridge construction activities.

## Equity

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



On-Going Roadway Excavation in the Median



On-going abutment and wing wall construction at new Weldon Canyon Bridge



Forming, preparations, and concrete pour at Retaining Wall 2622







# Projects without Life of Project (LOP) Budget

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



# 105 Express Lanes

BUDGET				
	TIFIA	Approved Preconstruction Budget	Previous Period	Current Forecast
	N/A	119.4 M	N/A	\$780M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			N/A 	

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast
	N/A	N/A	N/A	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 40% complete.**
- **Progress:**
  - The Phase 1 (Pre-Construction) CM/GC, Roadside Toll Collection System (RTCS) and PMSS contracts were approved by the Board in August 2022.
  - Notice to Proceed (NTP) was issued to CMGC Contractor on November 10th and CMGC Phase 1, Pre-Construction work has initiated.
  - Segment 1 of the project (between I-405 and Central Ave.), 95% Design has been submitted to Caltrans.
  - Segment 3 of the project (between 710 Freeway and Studebaker Rd.), 35% Design was submitted to Caltrans in October and has received comments from Caltrans. Segment 2 (between Central Ave. and 710 Freeway) will be submittal in January 2023.
  - Kick-off meeting with the PMSS Contractor was held on October 26<sup>th</sup>.
  - The first Opinion of Probable Construction Cost (OPCC) for segment 1 will be based on the 95% Plans.
  - Procuring a consultant to conduct an independent equity study.

## Equity

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





Traffic on 105 Freeway Westbound





The Project Map



# G Line BRT Improvements Project

BUDGET				
		Approved Preconstruction Budget	Previous Period	Current Forecast
		\$149.7M	N/A	\$392-\$476M
	Variance from Approved LOP:		\$0M (0%)	\$0M (0%) 
Variance from Revised Budget:			\$0 	

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

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
	N/A	N/A	N/A	December 2026
	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.



# G Line BRT Improvements Project

## Safety

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

## Updates

- **Design is 35% complete.**
- **Progressive Design Build Contract**
  - Progressive Design Build (PDB) Contract NTP issued November 10, 2022.
- **Utility Owner-performed AURs:**
  - Sepulveda – removal of poles and overhead wires pending PDB contractor installation of new power service.
  - Vesper – DWP crews completed cable pulling in August, Charter construction start pending City permit approval.
  - Sylmar – work complete within City ROW, DWP license agreement executed, and DWP commenced work in Metro ROW in November 2022.
- **Property Acquisitions underway**
  - Eight acquisitions underway, all-in negotiation or agreement phase.
  - Offers presented to owners between March 31, 2022, and May 24, 2022.
  - Board adopted the Resolution of Necessity for all properties in August 2022.

## Equity

- 11 of 17 stations (65%) are within or adjacent to Equity Focus Communities.





DWP Overhead Construction at Vesper





DWP Overhead Construction at Vesper



# East San Fernando Valley Transit Corridor

BUDGET	Approved (cumulative thru FY23) Annual Budget			Previous Period	Current Forecast
		\$362M		N/A	\$2.8-\$3.6B 
	Variance from Approved LOP:			\$0M (0%)	\$0M (0%) 
	Variance from Revised Budget:				\$0

SCHEDULE			Revenue Operation	
	Original	Approved Rebaseline	Previous Period	Current Forecast*
		N/A	N/A	2028 - 2030
	Variance from Original:		+0d (0%)	+0d (0%) 
Variance from Revised Schedule:			N/A 	

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





# East San Fernando Valley Transit Corridor

## Safety

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

## Updates

- **Design is 30% complete for systems.**
  - **Design is 60% complete for guideway.**
  - **Construction Management Support Services Contract**
    - Notice to Proceed (NTP) given to ESFV LRT Joint Venture Arcadis Mott MacDonald (AMM) in November 2022.
  - **Maintenance and Storage Facility (Solar Energy & Storage)**
    - NTP on December 7, 2022 to PCS Energy LLC for the Public-private partnership (P3) Contract.
    - Maximum duration of 15 years, with three phases of work.
  - **Advance Utility Adjustment (AUA) Contract DWP Design 1**
    - NTP on December 1, 2022 to W.A. Rasic Construction Company, Inc.
  - **Progressive Design Build Contract**
    - Progressive Design Build (PDB) Contract proposals received Nov 2022 and in review.
    - Anticipate recommendation to Board for award in early 2023.
  - **Property Appraisals underway**
    - Appraisal contracts awarded on August 11, 2022.
    - NTP in December 2022 to two real estate property appraisal, and three fixtures appraisal firms.
    - Appraisals will commence in January 2023.
- Equity**
- Acquisition anticipated to commence in June 2023.
  - 100% of the project is within or adjacent to Equity Focus Communities.



Intersection of Van Nuys Blvd. & Saticoy St.



Intersection of Van Nuys Blvd. & Keswick St.



# Measure M Independent Taxpayer Oversight Committee

## Transit Projects Update

Allison Yoh, Executive Officer  
March 1, 2023

# Measure M Transit Projects



## > Major Pillar Projects

- A) West Santa Ana Branch
- B) Eastside Transit Corridor Phase 2
- C) Sepulveda Transit Corridor
- D) C (Green) Line Extension to Torrance

## > Other Projects in Planning and Development

- North Hollywood to Pasadena
- N. San Fernando Valley BRT
- Vermont Transit Corridor

# West Santa Ana Branch Transit Corridor



Current Phase	Most Recent Cost Estimate
EIR/EIS	\$7.1B (YOES) - IOS

## Recent Activities

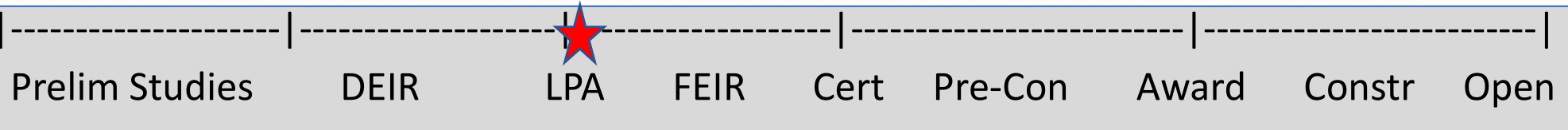
- Continuing to address design updates to reach 90% project definition for Final EIS/EIR
- Coordination with cities/stakeholders/3<sup>rd</sup> parties
- Reached concurrence with UPRR/Ports for continuation of project design without aerial alignment in San Pedro Subdivision
- Developing Encroachment Permit applications for utility potholing and geotechnical drillings

## Next Actions

- March 2023: 15% design completion, public outreach
- April 2023 (anticipated): MOU with Ports/UPRR



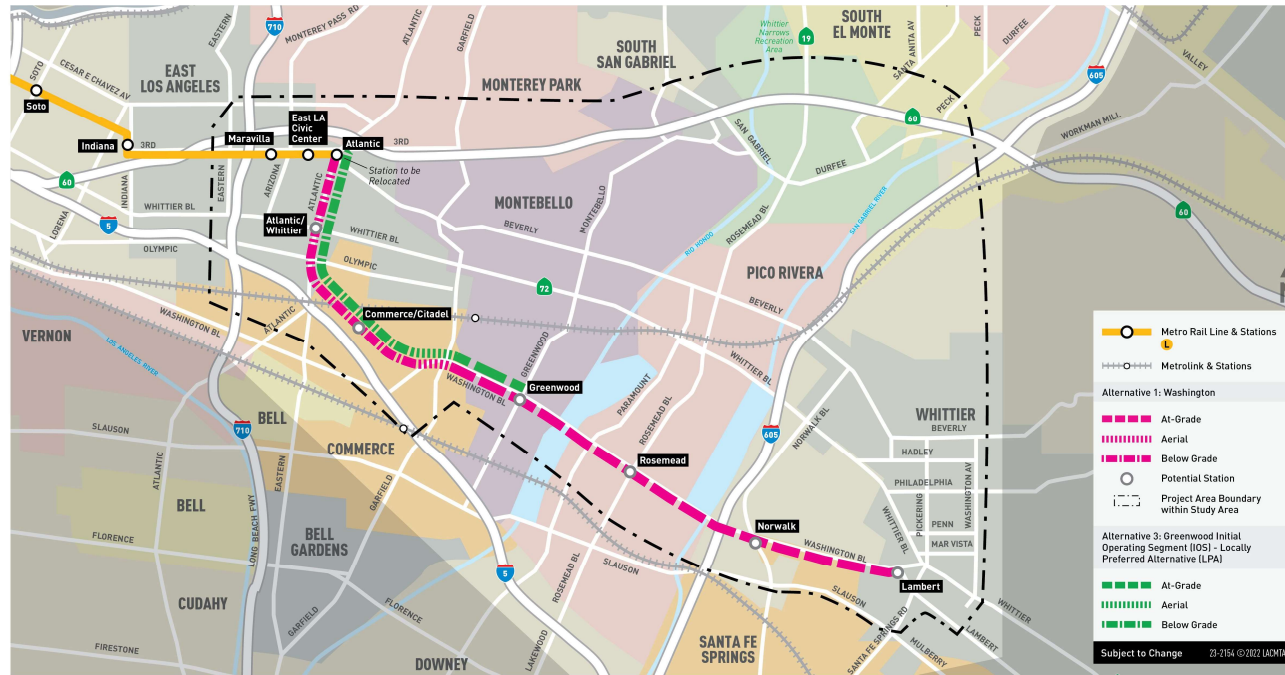
# Eastside Transit Corridor Phase 2



Current Phase	Most Recent Cost Estimate
EIR/EIS	\$7.9B (YOES) – IOS

## Recent Activities

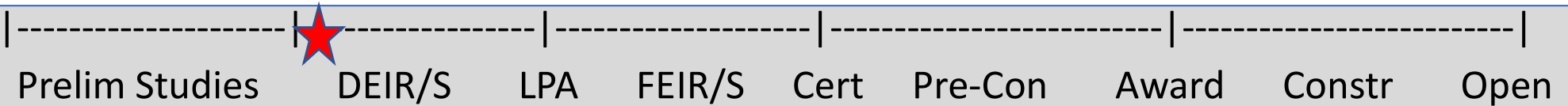
- Board selected LPA as Pomona/Atlantic Station to Greenwood (Dec 2022)
- Authorization to begin Final EIR for full alignment (Dec 2022)
- Reinitiate NEPA (Dec 2022)
- Executed contract modification for environmental services and advanced engineering



## Next Actions

- Prepare Final EIR and reinitiate NEPA (early 2023) in coordination with FTA
- Request approval from FTA for entry into Project Development before CalSTA's April announcement of AB 180 TIRCP awards

# Sepulveda Transit Corridor



## Current Phase

EIR/EIS

## Most Recent Cost Estimate

\$5.7B (2015\$)

## Recent Activities

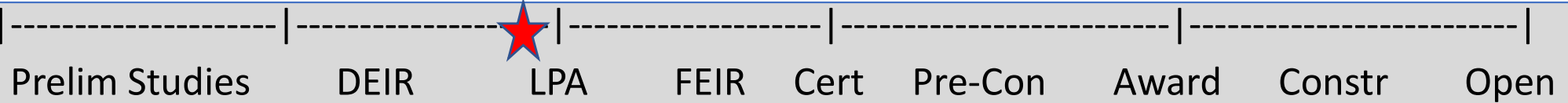
- Ongoing coordination between alternative designs and environmental analysis
- Continued engagement with other projects and with third party agencies
- Conducted public opinion survey to support outreach efforts (July-August 2022)
- Open House meetings in Van Nuys, Westwood, and online (January 2023)

## Next Actions

- Continue to develop designs and prepare environmental technical studies



# C (Green) Line Extension to Torrance



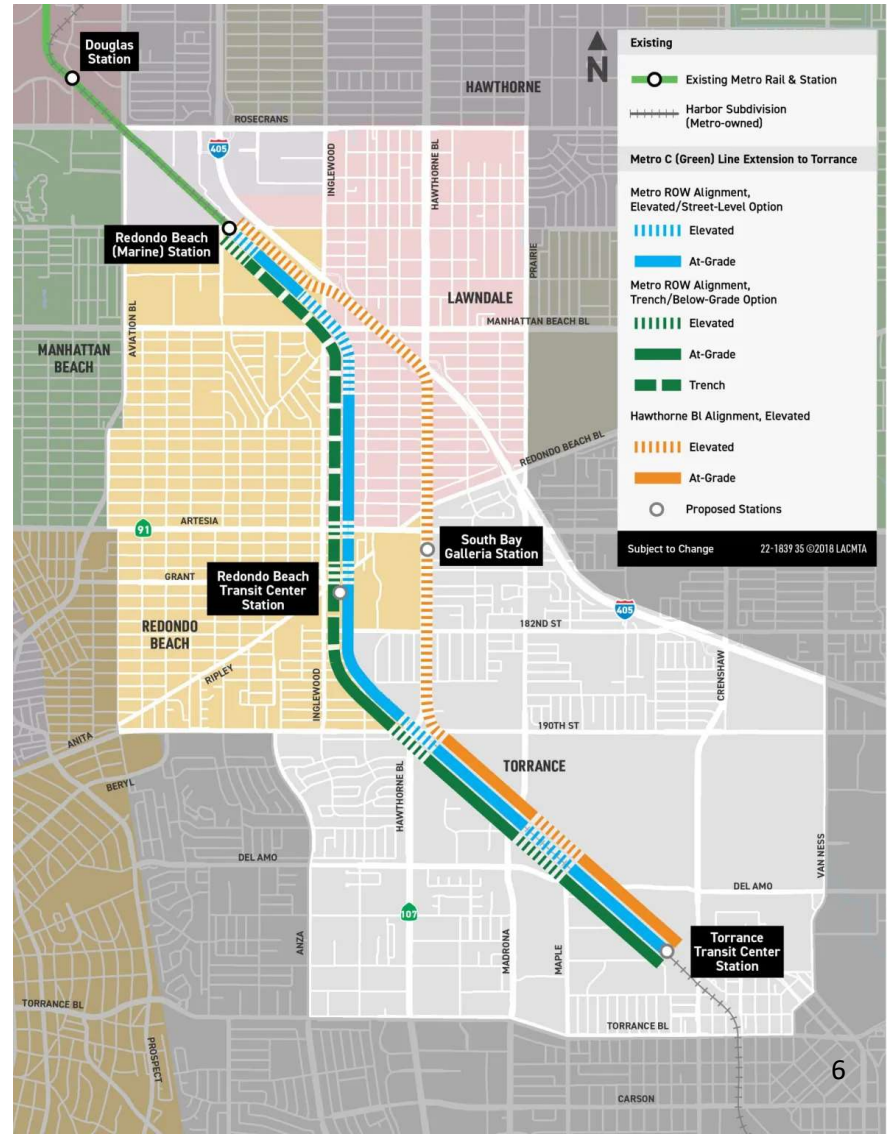
Current Phase	Most Recent Cost Estimate
EIR/EIS	\$891M (2015\$)

## Recent Activities

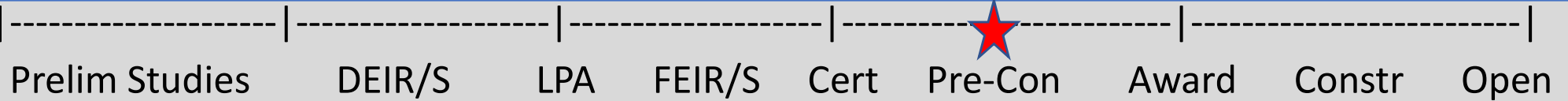
- Prepared summaries of community input, cost, schedule, ridership
- Continued coordination with community groups, cities, BNSF, Caltrans, utilities, and property owners
- Draft EIR released January 26, 2023

## Next Actions

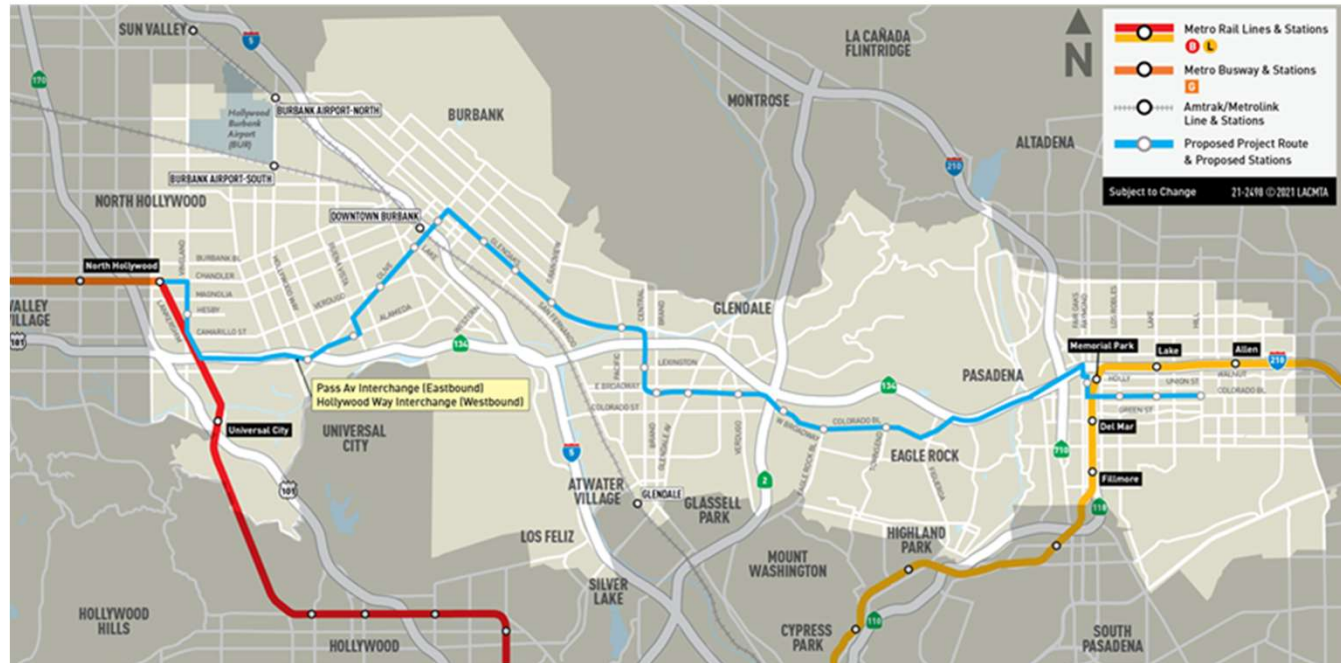
- Public hearings: February 2023
- Public comment through March 27, 2023
- Board selection of Locally Preferred Alternative (LPA): Spring 2023



# North Hollywood to Pasadena BRT



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$263M - \$386M (YOES) – Capital



## Recent Activities

- Preliminary engineering underway
- Meeting with each city on corridor to discuss project design
- Advancing project design (e.g., bus lanes, stations, transit signal priority, etc.)

## Next Actions

- Early 2023 – Release RFP for final project design (Program Management)
- Mid 2023 – Procure technical services to develop a First/Last Mile Plan



# North San Fernando Valley BRT Improvements



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$180M (2015\$)

## Recent Activities

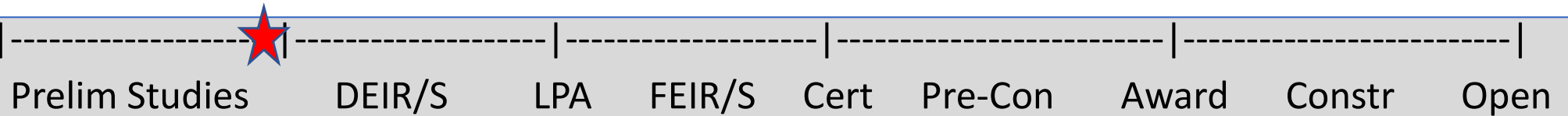
- Board actions (December 2022):
  - Approval of recommended BRT network improvements
  - Authorization to file a Notice of Exemption (NOE)
- Continuing to engage key stakeholders
- NOE filed with LA County Clerk

## Next Actions

- Jan 2023: Initiate design of peak period bus only lanes on Roscoe Blvd.
- Cooperative effort with Metro Service Planning and LA City on BRT network improvements
- Continue key stakeholder engagement



# Vermont Transit Corridor



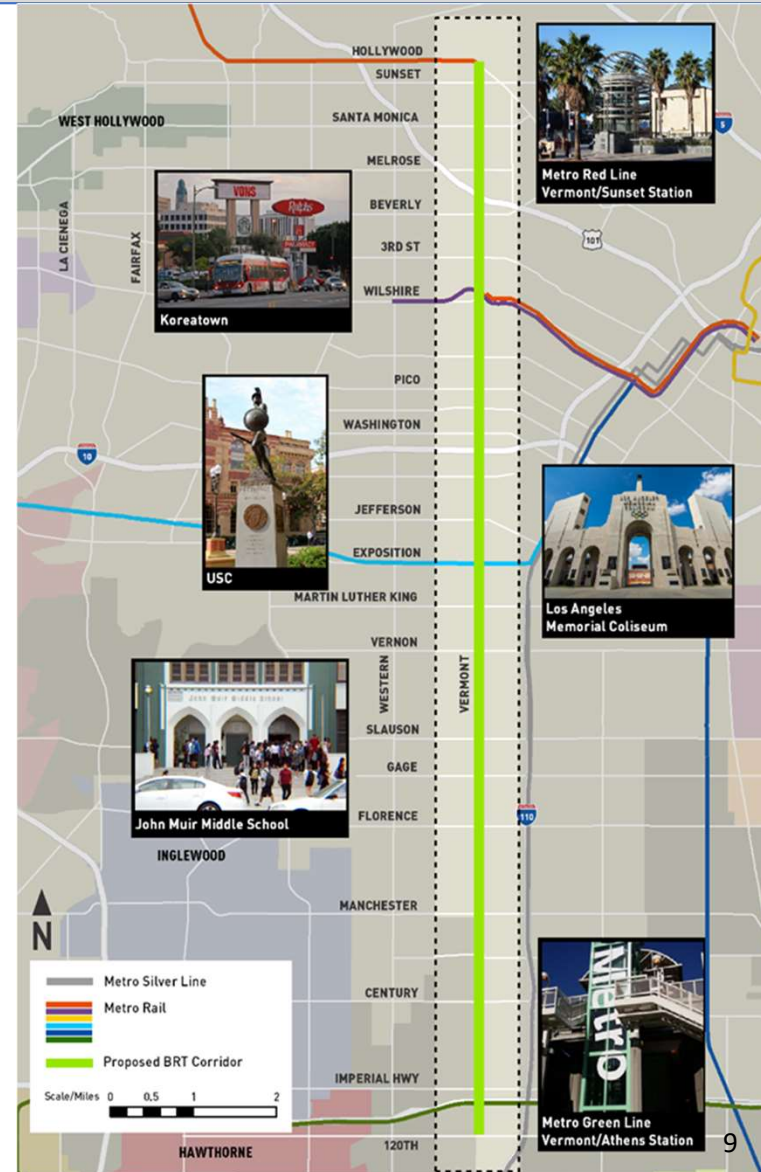
Current Phase	Most Recent Cost Estimate
Preliminary Studies	\$425M (2015\$)

## Recent Activities

- Sep 2022: Metro Board adoption of a strategy for immediate-, mid- and long-term improvements
- Continued community/stakeholder engagement (local school principals, CicLAvia, etc.)
- Preparing for release of environmental services RFP and community outreach RFP

## Next Actions

- Issue RFP for planning & environmental studies (early 2023)
- Issue RFP for communications and outreach services (anticipated February/March 2023)



# Measure M Expenditure Plan Groundbreaking to Opening Dates

Measure M  
Opening Dates  
3-Year Window

2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049																								
NoHo to Pasadena																																																					
North SFV BRT																																																					
Planning		LA River Path																																																			
Planning		West Santa Ana Branch (Phase 1)								WSAB (Phase 1+Slauson) Approved by Board																																											
Planning		Vermont Corridor																																																			
Planning		Green Line Extension to Torrance																																																			
Planning		Sepulveda Transit Corridor (Phase 1)																																																			
Planning				Eastside Transit Corridor Phase 2																																																	
Planning				West Santa Ana Branch (Phase 2) - Slauson to LAUS																																																	
Planning				Crenshaw North																																																	
																								Sepulveda Transit Corridor (Phase 2)																													

FY 2022 - 2024

FY 2023 - 2025

FY 2025 - 2027

FY 2028 - 2030

FY 2028 - 2030

FY 2030 - 2032

FY 2033 - 2035

FY 2035 - 2037

FY 2041 - 2043

FY 2047 - 2049

FY 2057 - 2059

# **Measure M Independent Taxpayer Oversight Committee**

## **Complete Streets & Highway Project Updates**

Nelli Derderian, Director Finance & Administration

March 01, 2023

# SR-71 Gap from I-10 to Rio Rancho Road (Southern Segment)



Current Phase	Phase Budget	Phase Spent To Date
Construction	\$148.10M	\$40.86M

## Purpose and Scope

- Caltrans-managed project adding HOV lane between Mission Blvd & San Bernardino County Line.

## Multimodal Elements

- N/A

## Status

- Construction is 36% complete with anticipated completion in Summer 2025.
- Planned utility relocation by third party utility companies may be delayed.
- Soft costs spent to date are from TCRF & other Federal funds.



## Challenges

- Relocation of unforeseen utilities has already caused delays.
- Right of Way encampment removal.
- Additional tree removal outside of project construction easement is requested by Southern California Edison due to fire hazard.

# SR-71 Gap from I-10 to Rio Rancho Road (Northern Segment)



Current Phase	Phase Budget	Phase Spent To Date
Design	\$40.40M	\$22.94M

Expenditures as of 01/30/23

## Purpose and Scope

- Caltrans-managed project adding HOV lane from I-10 to Mission Blvd.

## Multimodal Elements

- Upgrade current pedestrian bridge to comply with current ADA requirements.

## Status

- PS&E schedule pending resolution of project funding shortfall.
- Caltrans has identified significant cost increases and potential schedule delays in this Segment.
- Metro is coordinating with Caltrans and the San Gabriel Valley Council of Governments to identify potential solutions to complete the project.
- Soft costs spent to date are from TCRF & other Federal funds.



## Challenges

- Utility & railroad coordination causing schedule delays.
- Funding shortfall of up to \$99 million (\$10M in Design and \$89M in Construction).

# SR-57/SR-60 Interchange Improvements



### Purpose and Scope

- Major operational/safety improvements including grade-separation of Grand Ave eastbound off-ramp.
- Construction will be led by the San Gabriel Valley COG with Metro and Caltrans oversight; expected to start early 2023.

### Multimodal Elements

- Project includes improvements to local bridge, sidewalk and bicycle facilities.

### Status

- Metro Board approved construction funding agreement with San Gabriel Valley COG in January 2023.
- Golf course mitigation work, early action activity is progressing as scheduled.

### Challenges

- Closing negotiations with three (3) property owners on monetary value of Right of Way impact.



# I-405 South Bay Curve Improvements

## Southbound Auxiliary Lanes; I-105 to Artesia



### Purpose and Scope

- Improve safety and operations by reducing freeway conflicts at high congestion on/off ramp locations.
- Northbound and Southbound Auxiliary lane improvements between freeway on/off ramps within Caltrans Right of Way.

### Multimodal Elements

- High visibility crosswalks;
- Pedestrian flashing beacons;
- Pedestrian and cyclist signage.

### Status

- Environmental phase completed in 2020.
- Design phase started in March 2022.
- 35% design plans submitted to Caltrans in August 2022.



### Challenges

- Leveraging local Measure R/M funds to fully fund construction
- All expenditures spent to date are from Measure R; Measure M funds not yet expended.



# I-405 South Bay Curve Improvements

## I-110 to Wilmington – Auxiliary Lanes



Prelim Studies

PA&ED

PS&E

Cert BID

Award

Construction

Open

### Purpose and Scope

- Improve freeway operations and safety.
- Spans across both directions of I-405 through construction of auxiliary lanes between on- and off-ramps to improve merging and diverging vehicle movements.

### Multimodal Elements

- Project may include improvements to pedestrian/bicycle facilities and transit stops.

### Status

- Project Study Report completed November 2020.
- Environmental phase projected to start mid-2023.
- Project being scoped in collaboration with City of Carson and Caltrans in accordance with Objectives for Multi-Modal Highway Investment.

### Challenges

- VMT analysis and potential mitigation.
- Leveraging local Measure R/M funds to fully fund construction.

