



Board Report

File #: 2023-0509, **File Type:** Oral Report / Presentation

Agenda Number: 7.

**MEASURE M INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE
SEPTEMBER 13, 2023**

**SUBJECT: ORAL REPORT ON TRANSIT AND COMPLETE STREETS & HIGHWAYS
PROJECTS**

ACTION: RECEIVE ORAL REPORT

RECOMMENDATION

RECEIVE oral report on Transit and Complete Streets & Highways Projects.

Prepared by: Julie Owen, Senior Executive Officer, Project Management Oversight, (213) 922-7313
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Reviewed by: Jim de la Loza, Chief Planning Officer, (213) 922-2920
Sameh Ghaly, Chief Program Management Officer (Interim), (213) 922- 7382

ATTACHMENTS

- Attachment A - Program Management Update
- Attachment B - Transit Planning Update
- Attachment C - Complete Streets & Highways Update



Program Management

Quarterly Major Project Status Report



Julie Owen
Senior Executive Officer Project Management Oversight

Measure M Committee
September 13, 2023

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	Winter 2025	Fall 2024	
	Variance from Original:		-2d (.10%)	-35d (1.83%)	
Variance from Revised Schedule:		+0d (0%)	-33d (1.73%)		

* Current Forecast is Authority's April 2023 Schedule Update



Gold Line Foothill Extension Phase 2B

Safety

- Project Hours: 1,237,316
Recordable Injury Rate: 0.3 vs. the National Average: 2.4.

Updates (Metro Gold Line Foothill Extension Authority)

The design and construction of the 9.1-mile, 4 station light rail extension project is progressing.

- **Overall Project Progress is 70% complete.**
- Completed construction of Route 66, and 210 and 57 freeway pier protection
- Freight track relocation completed
- All 4 LRT bridges completed
- CPUC has approved all 49 grade crossings to date (up to Montclair)
- Work at 29 of 37 grade crossings from Glendora to Pomona completed
- Major grade crossing work/long-term closures completed
- All 8 TPSS's have been installed

- **Construction Continues as follows:**
- LRT track installation (nearly complete)
- MSE retaining walls and sound wall fencing throughout the project
- 4 new stations: Glendora, San Dimas, La Verne, and Pomona
 - Started the installation of architectural elements at Glendora station
- LRT train control, OCS poles and wire installation



Equity

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



Glendora Station – Communication Bungalow



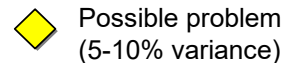
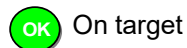
Airport Metro Connector (AMC) Project

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*
	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 April 2023 Schedule Update



Significant Impact
(over 10% variance)

Airport Metro Connector (AMC) Project

Safety

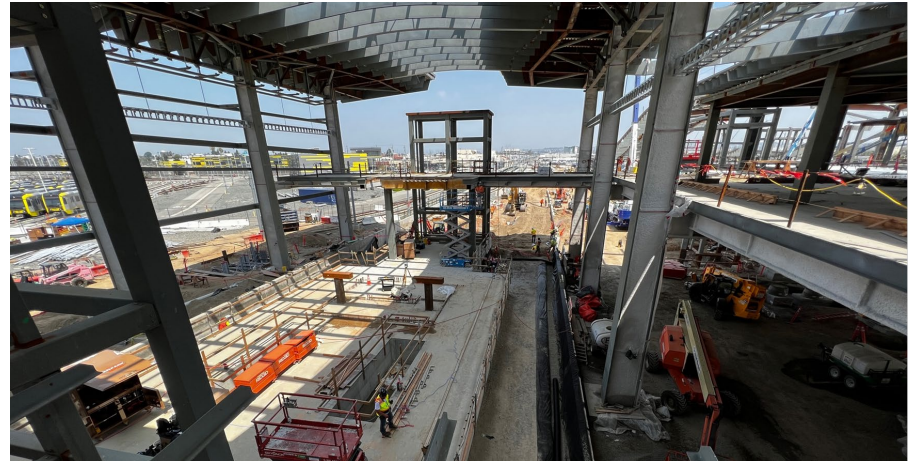
Project Hours: 436,882; Recordable Injury Rate: 2.29 vs. The National Average: 2.4.

Updates

- **Overall project progress is 64% complete.**
- Primary Station Construction at 46% completion
 - Steel structure and metal decking is complete at the Rail Platform, Main hub and Bike Hub areas. Bus Plaza steel is at 90% completion.
 - Rail Platform structural slab has been completed. Track work beginning with installation of ballast system.
 - Structural slab at Main Hub is nearly complete.
 - Roofing and ceiling utilities is ongoing above the Rail Platform and Main Hub areas.
 - LADWP underground infrastructure on Arbor Vitae has been completed with minor work remaining on Aviation Blvd.

Equity

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



Rail Platform Area





Main Hub Area with Customer Service Kiosk to the left







July 2023 Measure M Committee

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	N/A	Spring 2027	Fall 2027	
Variance from Original:		+181d (5.4%) 	+223d (6.65%) 	
Variance from Revised Schedule:		TBD 	TBD 	

* Contract schedule is forecasting a slippage to the contractual milestones.

The project team is identifying opportunities to mitigate and is monitoring potential impacts. Staff will provide periodic updates to the Board.



Westside Purple Line Extension – Section 3

Safety

Project Hours: 2,614,618 Recordable Injury Rate: 1.45 vs. The National Average: 2.4.

- C1151: Project Hours: 1,419,127; Recordable Injury Rate: 2.68.
- C1152: Project Hours: 1,195,491.; Recordable Injury Rate: 0.0.
- **Updates**

▪ **Overall Project Progress is 49% complete.**

▪ **Final design progress is 97% complete.**

▪ Tunnels

- Both Tunnel Boring Machines (TBMs) completed mining in April and are parked 2 ft behind the Constellation Station West End wall;
- Excavation for one out of 14 cross passages has started.

▪ Westwood/UCLA Station

- Excavation is about 26% complete. Walers and struts continue to be installed at level 2; 17% of walers and 9% struts have been installed. Utility support work ongoing and approximately 52% complete.

▪ Westwood/VA Hospital Station

- Excavation is about 24% complete. Walers and struts continue to be installed at levels 1 and 2; 27% of walers and 20% of struts have been installed. Tieback installation is 6% complete.
- The VA steam tunnel relocation work continues; Mechanical, Electrical, and Plumbing fit-out inside the steam tunnel (90% complete).
- Backfilling around the steam tunnel vaults remains at 93%.

Equity

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





Westwood/UCLA Station: Excavation at Wilshire Blvd





Westwood/VA Station: Tiebacks Installation– North & West Walls



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 

** The Contractor's last Update shows minor slippage, but Metro has not accepted the Critical Path and expects this slippage to be corrected



I-5 North County Enhancements

Safety

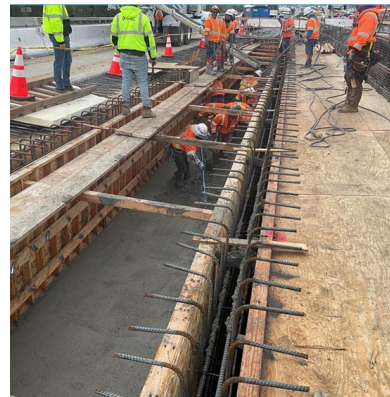
Project Hours: 304,633; Recordable Injury Rate: 1.34 vs.
The National Average: 2.4.

Updates

- **Overall Project progress is 25% complete.**
- Construction Stage 1, Phase 1 & 2 on-going:
 - Partial Demo/Pile Driving/Footing, Abutment/Bent, Soffit & Stem and Lost Deck Construction on several bridges.
 - Retaining Walls, Drainage, Barrier/Roadway Demo, Excavation, and Base Placement.
 - Construction of new Weldon Canyon Bridge
- 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.

Equity

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



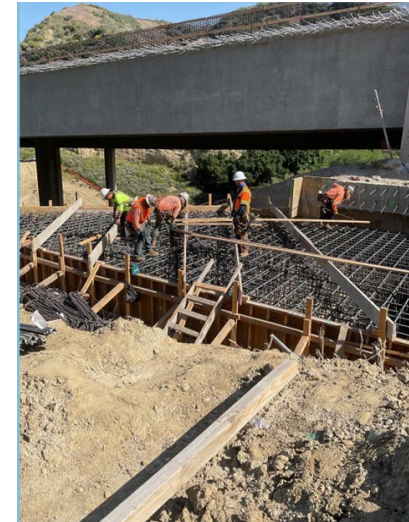
Soffit pour at Butte Canyon bridge



On-site concrete batch plant



Grouting at Retaining Wall 2461
after March rain storm



Placing rebar at of Gavin Canyon
Bridge





July 2023 Measure M Committee



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	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$119.4 M	\$119.4 M	\$119.4 M	\$119.4 M
	Project	\$119.4 M	\$780M - \$1B	\$780M - \$1B	\$780M - \$1B
	Variance from Approved Pre-Construction Budget:			\$0M (0%)	\$0M (0%) 
	Variance from Approved LOP:			N/A	N/A
	Variance from Revised Budget:				N/A 

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 64% complete**
- **Program Management**
 - Time extension request for SB 1 funding allocation submitted to Caltrans
 - Traffic and Revenue Study in progress
- **Design**
 - Segment 1 design 100% completed in April and Segments 2 and 3 design 35% complete
 - Dominquez Channel easement and rental agreement adopted by LA County Board
- **Construction Manager/General Contractor (CMGC)**
 - Segment 1 100% Opinion of Probable Construction Cost (OPCC) in progress
 - Interface meetings with WSAB and Metro MOW in progress
- **Roadside Toll Collection System (RTCS)**
 - Infrastructure Design Document (IDD) submitted in March
 - Major submittal review underway
 - Requirements Traceability Matrix (RTM) review sessions in progress

Equity

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



Traffic on 105 Freeway Westbound





The Project Map





July 2023 Measure M Committee

G Line BRT Improvements Project

BUDGET	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$149.7M		\$149.7M	\$149.7M
	Project	\$149.7M		N/A	\$392-511M
	Variance from Approved Pre-Construction Budget:			\$0M (0%)	\$0M (0%) 
	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			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.

**Approved Budget only includes the Pre-Construction Budget. The project will be requesting LOP budget upon award of the PDB Contract Phase 2.



G Line BRT Improvements Project

Safety

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

Updates

- **Design is 30% complete**
- **Progressive Design Build Contract**
 - 30% design complete for Grade Separations and Bike Path Improvements key elements. 30% design under review for Stormwater Capture key element
 - 30% Milestone OPCC under development
 - Technology Evaluation for Gated Intersections complete, proceeding into Proof of Concept phase with recommended cloud tech solution for gate activation
 - Geotech Investigations and Potholing, and Survey underway
- **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 – DWP undergrounding near completion. Charter planning to vacate line
- **Property Acquisitions**
 - Eight acquisitions underway
 - Offers presented to owners between 3/31/22, and 5/24/22
 - Board adopted Resolution of Necessity for all properties in Aug '22

Equity



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





Potholing at Van Nuys Blvd



East San Fernando Valley Transit Corridor

BUDGET	Approved Budget to Date			Previous Period	Current Forecast
	Pre-Construction	\$496.9M		\$496.9M	\$496.9M
	Project	\$496.9M		N/A	\$2,810M - \$3,576M
	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.*

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

** Current schedule forecast reflects Metro's Draft Baseline Schedule. Approval is pending.*



East San Fernando Valley Transit Corridor

Safety

Project Hours*: 0; Recordable Injury Rate: N/A vs. The National Average: 2.4. *AUA inaugurations on February 16, 2023.

Updates

- **Design is 30% complete for systems, stations, utilities and MSF; 60% complete for guideway and civil.**
 - **Advancing utility composite plans to 60% and AUA 2-8 to 100% complete.**
 - **Construction Management Support Services Contract**
 - Notice to Proceed (NTP) given to Arcadis / Mott MacDonald (AMM) Joint Venture November 4, 2022. Staff augmentation progressing.
 - **Maintenance and Storage Facility (Solar Energy & Storage)**
 - NTP on December 7, 2022 to PCS Energy LLC for the Public-private partnership (P3) Contract. Contractor interfacing with SFTC.
 - **Advance Utility Adjustment (AUA) Contract DWP Design 1**
 - NTP on December 1, 2022 to W.A. Rasic Construction Company, Inc.
 - Excavations and placement of 3 of 4 vaults completed, construction of duct banks underway, adjustment of gas line underway.
 - **Progressive Design Build Contract**
 - NTP on April 14, 2023 to San Fernando Transit Constructors (SFTC).
 - Estimating efforts underway to develop OPC for base design.
 - **Property Appraisals underway**
 - Appraisals commenced in January/February 2023.
 - Formal acquisitions anticipated to commence in July/August 2023.
 - CEQA addendum of the priority parcels is expected by July 2023 and NEPA reevaluation approval expected by November 2023.
 - **Light Rail Vehicle (LRV) Acquisition**
 - A contract is being developed by Metro VCM for a consulting firm to support LRV procurement.
- Equity**
- 100% of the project is within or adjacent to Equity Focus Communities.



Installation of 1 of 4 vaults by W.A. Rasic on Van Nuys Blvd, between Vanowen and Vose.



Installation of a 4" gas main by SCG on Van Nuys Blvd, just south of Saticoy.



July 2023 Measure M Committee

Measure M Independent Taxpayer Oversight Committee

Transit Projects Update

Allison Yoh, Executive Officer
September 13, 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

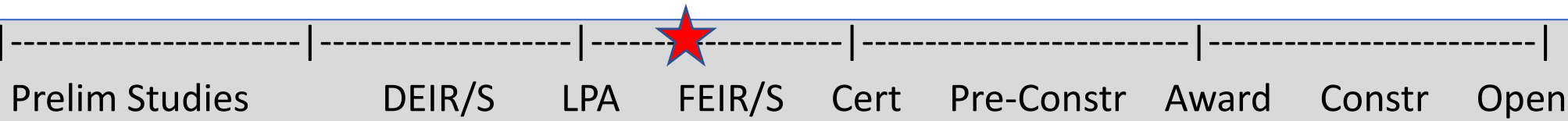
> Other Projects in Planning

- Vermont Transit Corridor
- K Line Northern Extension

> Projects Transitioning

- NoHo to Pasadena BRT to Program Management
- North San Fernando Valley BRT to Service Development Planning

West Santa Ana Branch Transit Corridor



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

Recent Activities

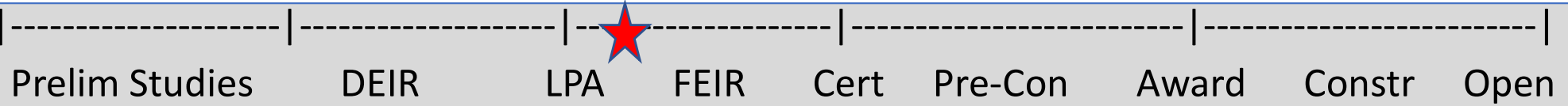
- Utility potholing work is 50% complete
- Two procurements underway: Program Management Support Services, Advanced Design (in blackout)
- Public/stakeholder outreach meetings in Paramount, Bell, Artesia, Cerritos and virtual (June)
- Technical memos & EIS/R Chapters prepared and with FTA and Army Corps of Engineers for review
- Ongoing work with UPRR/Ports on MOU

Next Actions

- Fall 2023: First Admin Draft of Final EIS/EIR to FTA
- Fall 2023 (tent.): Board action on contract awards
- Spring 2024 (tent.): Board certification of Final EIR
- Summer 2024 (tent.): FTA Record of Decision

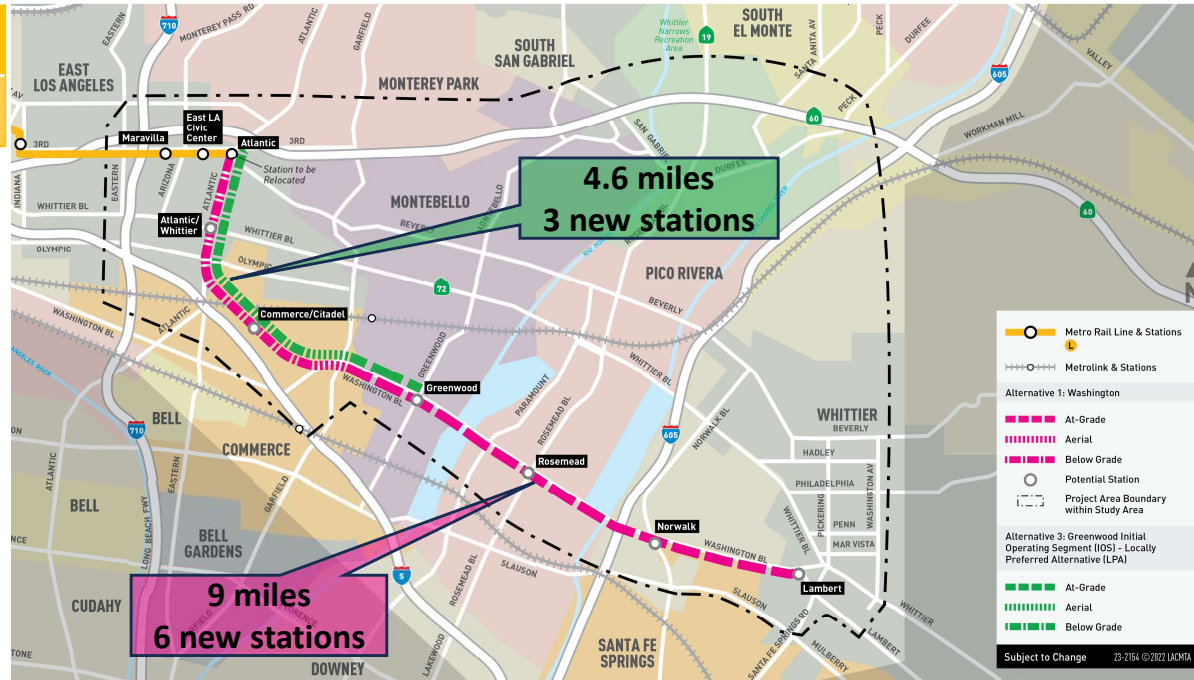


Eastside Transit Corridor Phase 2



Current Phase Most Recent Cost Estimate

EIR/EIS \$7.9B (YOES\$, 2031\$) – IOS



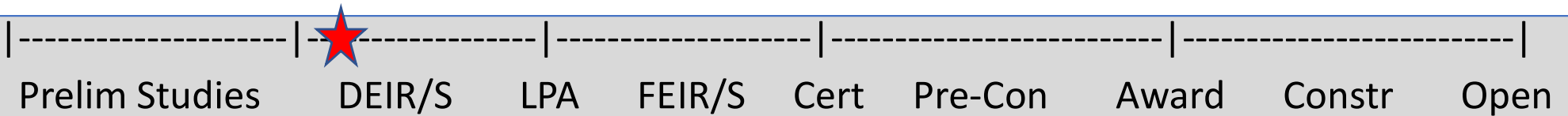
Recent Activities

- Awarded \$35M from State TIRCP
- Arranging community tours for Fall 2023
- Ongoing NEPA coordination w. FTA
- Preparing for future entry into Project Development phase
- Developing Cooperative Agreement with cities and County Counsel
- FLM planning underway (existing conditions, developing walk audits)

Next Actions

- Engineering field work along the alignment (Summer 2023)
- Community Rail Tours and FLM Walk Audits anticipated in Fall 2023 (tentative)
- FTA to determine the appropriate level of NEPA documentation, in coordination with Metro
- Complete Delivery Selection Process (Fall 2023), exploring strategies to advance construction
- CEQA anticipated in Winter 2023/2024

Sepulveda Transit Corridor



Current Phase

EIR/EIS

Most Recent Cost Estimate

\$5.7B (2015\$)

Recent Activities

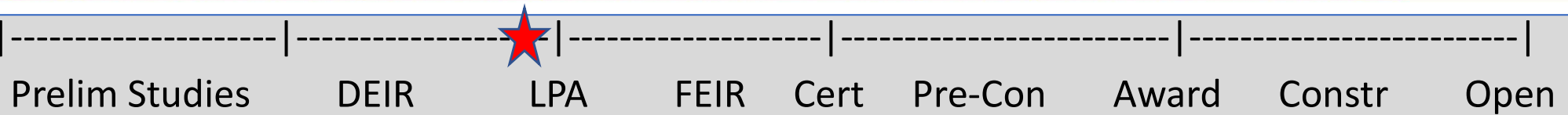
- Ongoing fieldwork
- Continued engagement with adjacent projects and with third party agencies
- Planning and Environmental Linkages (PEL) meetings with agencies

Next Actions

- Continue to develop designs and prepare environmental technical studies
- Preparing for next round of community meetings



C (Green) Line Extension to Torrance



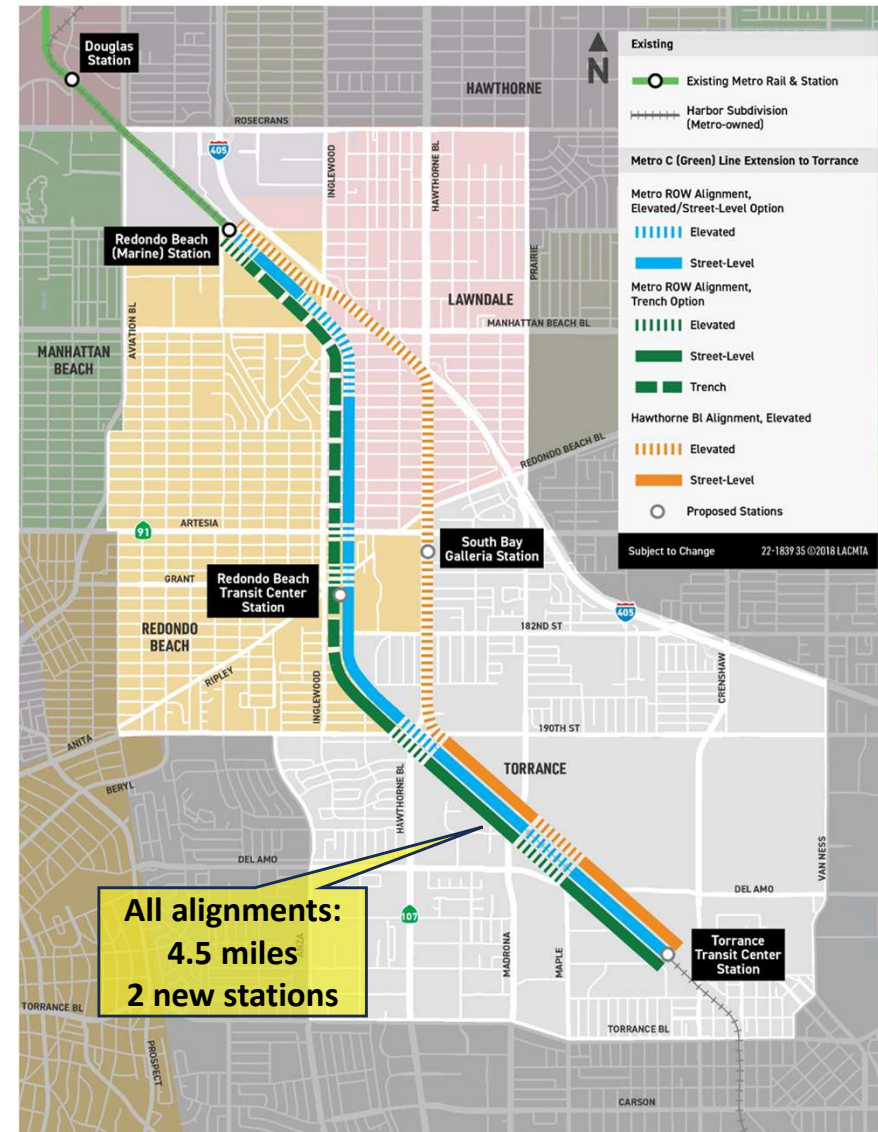
Current Phase	Most Recent Cost Estimate
EIR/EIS	\$891M (2015\$)

Recent Activities

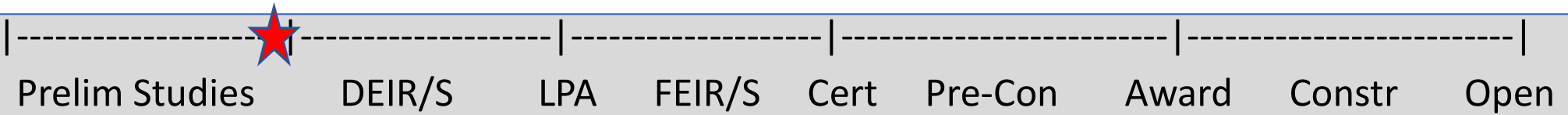
- Completed community poll on project awareness and levels of support
- Selection of K Line operations to Redondo Beach
- Additional engineering work
- Continued coordination with BNSF
- Continuing to review public comments and brief on responses

Next Actions

- Continue to identify and develop staff recommendation of Preferred Alternative based on project objectives, findings, community concerns
- Summer 2023: Briefing elected officials, cities
- Fall 2023: Board selection of Preferred Alternative



Vermont Transit Corridor



Current Phase

Preliminary Studies

Most Recent Cost Estimate

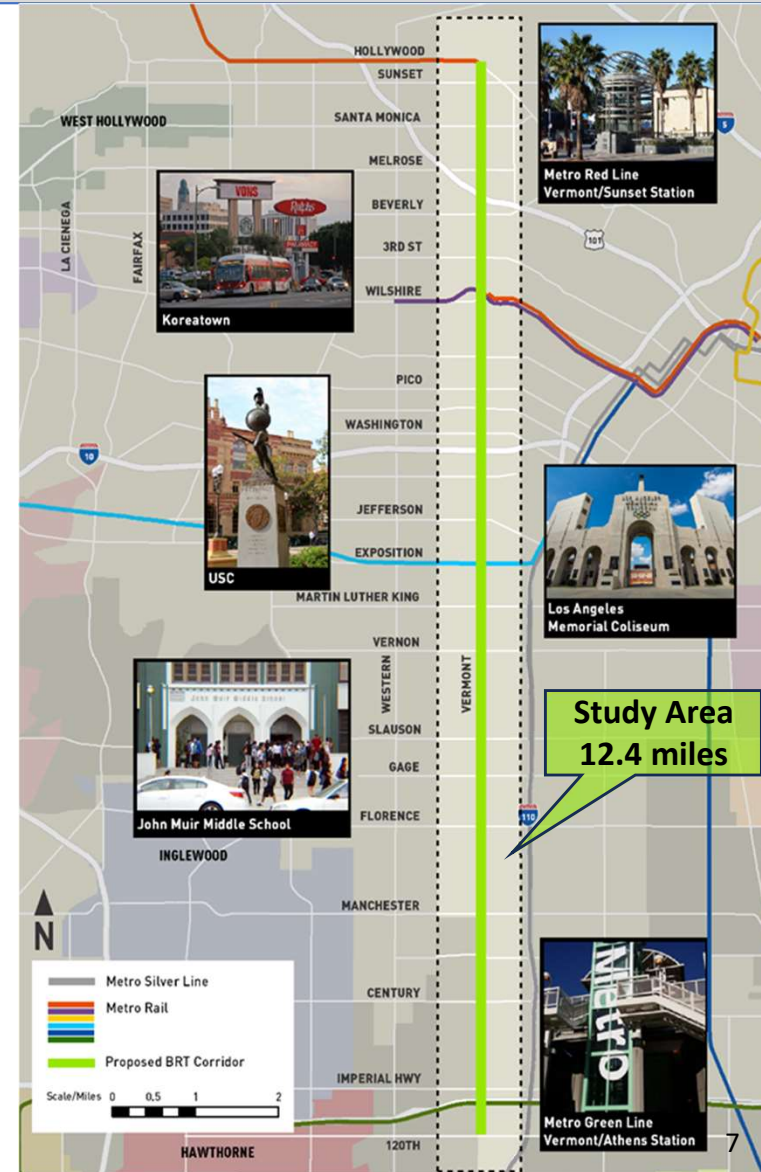
\$425M (2015\$)

Recent Activities

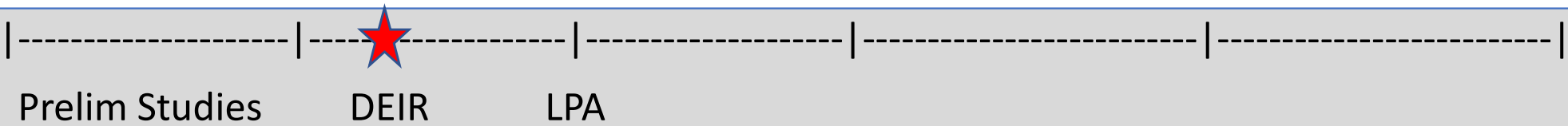
- Active procurement underway for environmental services (RFP released February 2023)
- Beginning coordination with Service Planning on near-term bus service improvements

Next Actions

- Fall 2023: Anticipated procurement for communications/outreach services
- Fall 2023: Anticipated Notice of Intent to Award for environmental services, and Board action on contract award



K Line (Crenshaw) Northern Extension



Current Phase Most Recent Cost Estimate

EIR/EIS

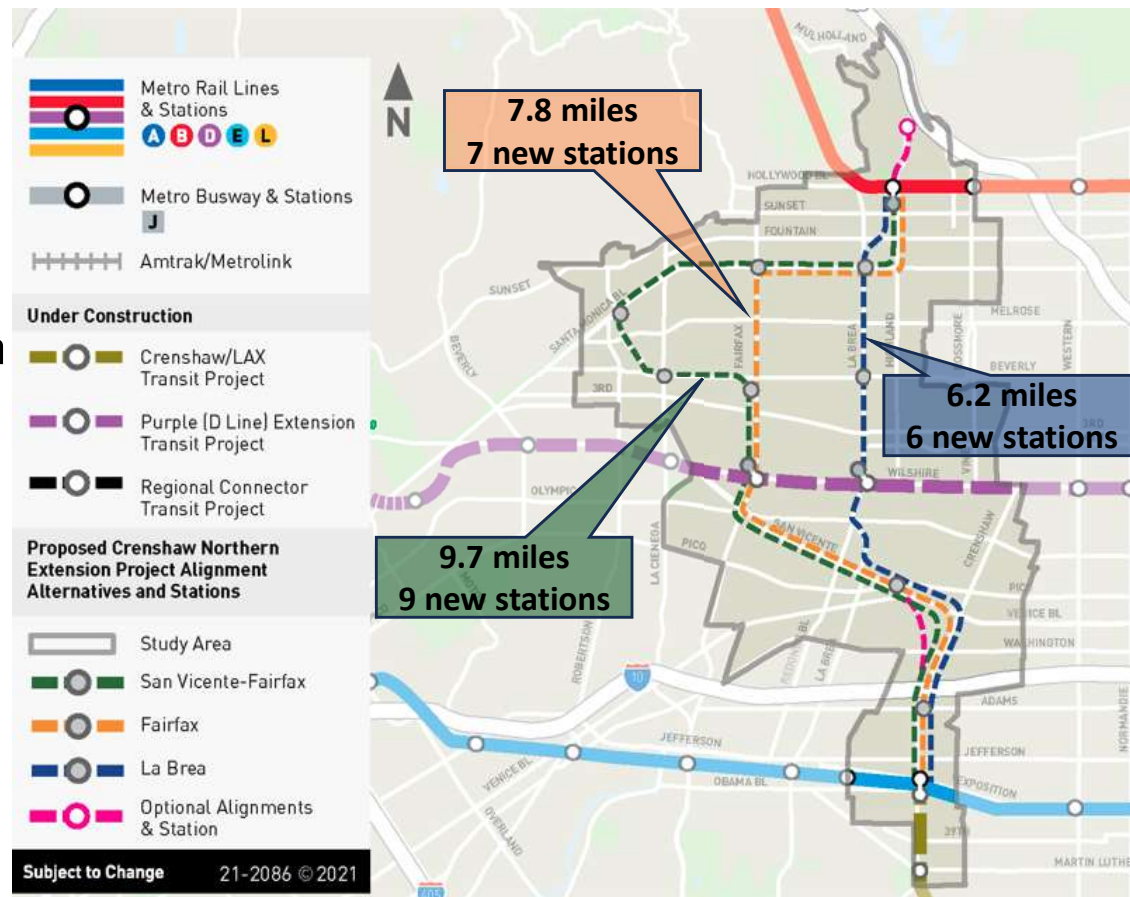
\$2.24B (2015\$)

Recent Activities

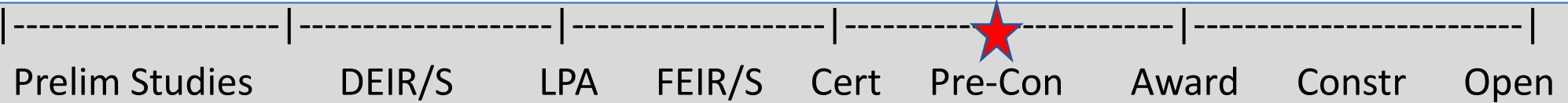
- Travel demand forecasting, environmental analysis in preparation of Draft EIR
- Advancing environmental work & prepare technical reports
- Refine DEIR engineering concepts for three alternatives

Next Actions

- Develop the Comparison of Alternatives framework
- Late Summer 2023 (anticipated): Community meetings on three alignments



North Hollywood to Pasadena BRT



Current Phase	Most Recent Cost Estimate
Pre-Construction	\$263M - \$386M (2015\$) - Capital



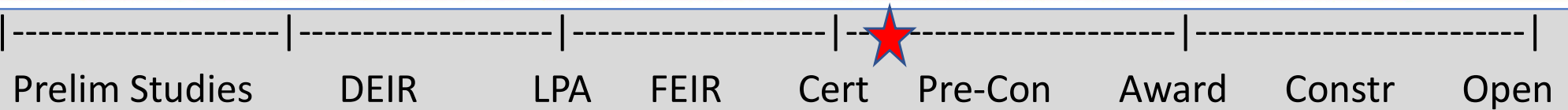
Recent Activities

- Design of station kit of parts
- Development of BRT service plan and frequencies
- Identification of project delivery method

Next Actions

- Summer/Fall 2023 – Release RFP for technical services to develop First/Last Mile Plan
- Summer/Fall 2023 - Prepare and release RFP for project management support services and final design (transition to Program Management)

North San Fernando Valley BRT Improvements



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

Recent Activities

- Developed design of bus bulbs at select locations
- Initiated procurement of battery electric buses and charging infrastructure under Metro Operations
- Continuing to engage key stakeholders

Next Actions

- Initiate design of peak period bus only lanes
- Continue coordination with Streets LA on bus shelter implementation
- Continue transition of Project Implementation to Metro Service Development
- Continue key stakeholder engagement



Measure M Expenditure Plan Groundbreaking to Opening Dates

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	Measure M Opening Dates 3-Year Window																									
Planning				NoHo to Pasadena BRT																																	FY 2022 - 2024																		
Planning				North SFV BRT																																FY 2023 - 2025																			
Planning					LA River Path																															FY 2025 - 2027																			
Planning					West Santa Ana Branch (Phase 1)						WSAB (Phase 1+Slauson) Approved by Board																																	FY 2028 - 2030											
Planning								Vermont Corridor																																FY 2028 - 2030															
Planning							Green Line Extension to Torrance																																		FY 2030 - 2032														
Planning								Sepulveda Transit Corridor (Phase 1)																																			FY 2033 - 2035												
Planning								Eastside Transit Corridor Phase 2																																		FY 2035 - 2037													
Planning				WSAB (Phase 2) - Slauson to LAUS																																								FY 2041 - 2043											
Planning				K Line Northern Extension																																																		FY 2047 - 2049	
																								Sepulveda Transit Corridor (Phase 2)																															FY 2057 - 2059

Measure M Independent Taxpayer Oversight Committee

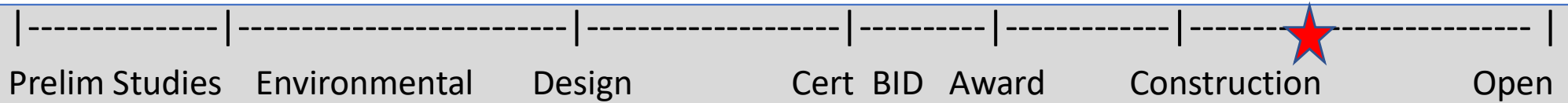
Complete Streets & Highway Project Updates

Nelli Derderian

Director, Finance & Administration

September 13, 2023

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



Current Phase	Phase Budget	Phase Spent To Date
Construction	\$148.10M	\$56.19M

Purpose and Scope Expenditures as of 06/30/23

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

Multimodal Elements

- N/A

Status

- Construction is 45% complete with anticipated completion by end of 2024.
- TCEP* funding 20-month time extension to be requested to cover construction schedule delays.

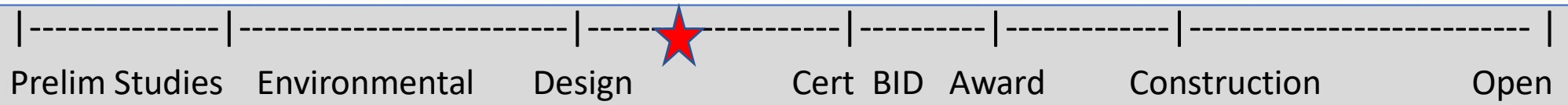
Challenges

- Construction schedule delays related to soil cohesion testing needed for soil nail retaining wall construction.
- Resolving any outstanding claims.



* TCEP – Trade Corridor Enhancement Program State grant

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



Current Phase	Phase Budget	Phase Spent To Date
Design	\$40.40M	\$23.0M

Expenditures as of 06/30/23

Purpose and Scope

- **Caltrans-managed** project to add 1 HOV lane in each direction and upgrade segment from an expressway to a freeway with 2 mixed flow lanes.

Multimodal Elements

- Upgrade current pedestrian bridge to comply with current ADA requirements.
- Adding HOV lanes will facilitate carpools and vanpools and encourage transit (bus) usage.

Status

- Environmental Document completed in May 2013.
- Right of Way acquisition is complete except for railroad easements.
- Design phase projected to finish in Summer 2025.
- Target construction start date in Fall 2026.
- Pursuing Mega* and INFRA** grant opportunities to close the funding gap.
- Expenditures to date are from State and Federal funds.

Challenges

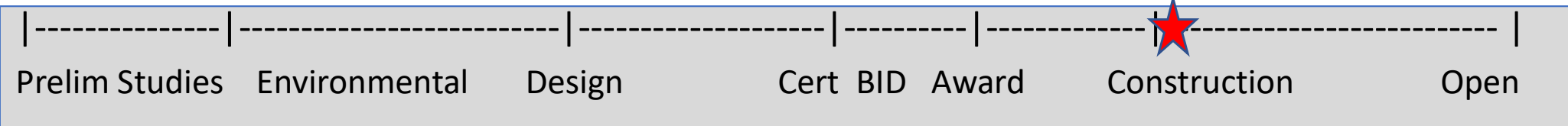
- Utility & railroad coordination causing schedule delays.
- Funding shortfall of more than \$114 million expected.



* Mega — National Infrastructure Project Assistance Federal grant
 ** INFRA – Infrastructure for Rebuilding America Federal grant



SR-57/SR-60 Interchange Improvements



Current Phase	Phase Budget	Phase Spent To Date
Construction	\$296.4M	\$6.0M

Expenditures as of 06/30/23

Purpose and Scope

- Major operational/safety improvements including grade-separation of Grand Ave eastbound off-ramp.
- **Construction led by the San Gabriel Valley COG** with Metro and Caltrans oversight.

Multimodal Elements

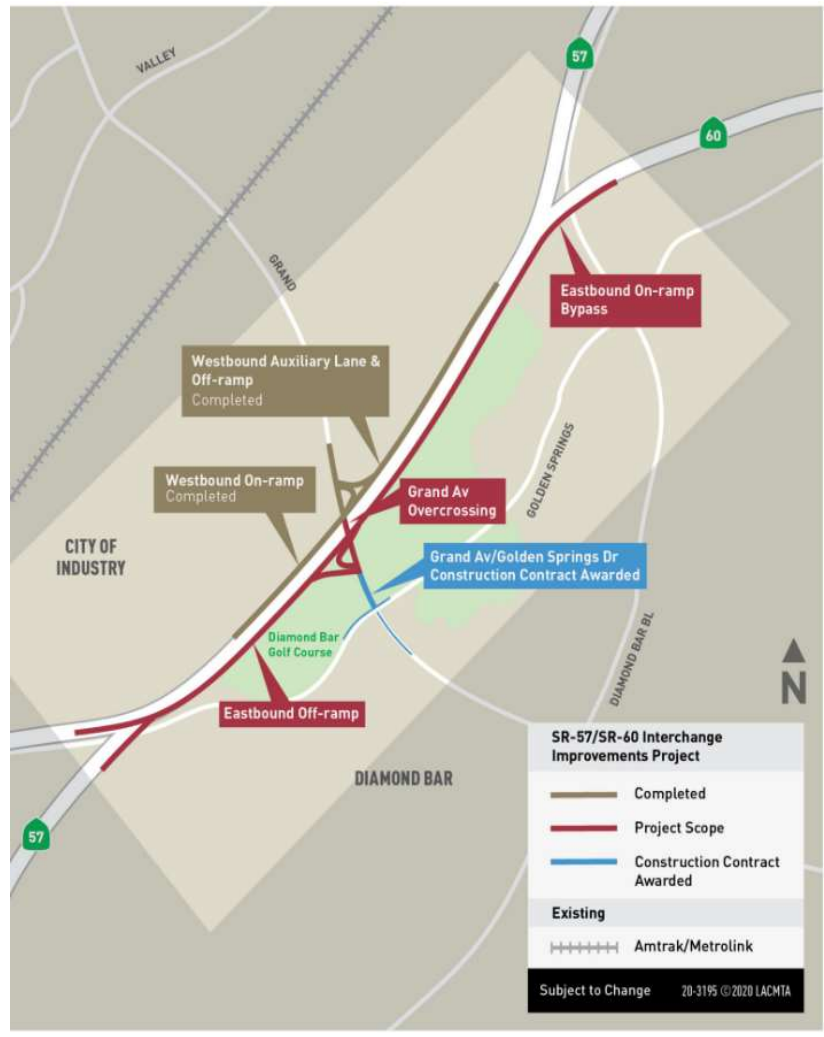
- Project includes improvements to local bridge, sidewalk and bicycle facilities.

Status

- Project consists of \$217M in TCEP* and \$27M in INFRA** construction funds.
- Property mitigation activity is progressing as scheduled.
- **Groundbreaking held on June 30, 2023.**
- Construction completion projected in Summer 2028.

Challenges

- Closing final cost negotiations on required Right of Way.



* TCEP – Trade Corridor Enhancement Program State grant
 ** INFRA – Infrastructure for Rebuilding America Federal grant

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.
- **Metro leading design phase.**

Multimodal Elements

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

Status

- Environmental Document completed in June 2020.
- 65% design plans submitted to Caltrans in Spring 2023.
- Anticipating 95% design submittal by Spring 2024.

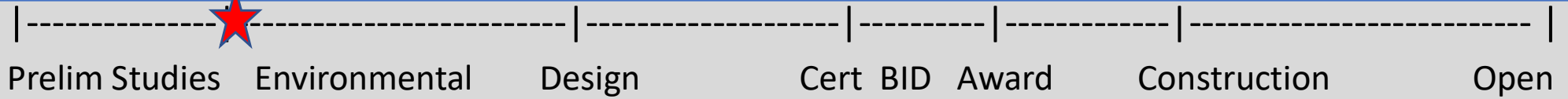
Challenges

- Construction phase is not fully funded.



I-405 South Bay Curve Improvements

I-110 to Wilmington – Auxiliary Lanes



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.
- **Metro leading environmental phase.**

Multimodal Elements

- Project will include ramp termini improvements (high visibility crosswalks, leading pedestrian intervals, bike boxes, etc.).
- May include other pedestrian/bicycle and transit stop improvements in collaboration with City of Carson.

Status

- Environmental phase projected to start in Summer 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 identification of potential mitigation may need to be conducted.
- Construction phase is not fully funded.



SR-14 Improvements – North County



Purpose and Scope

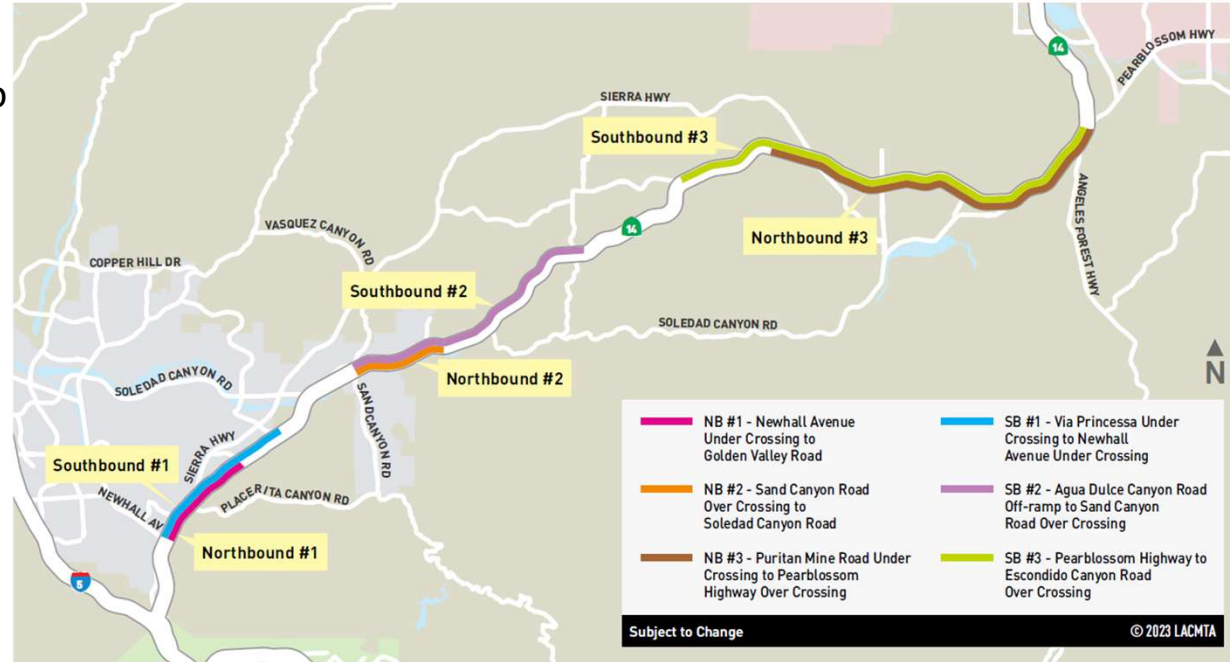
- Project Limits - Newhall Ave undercrossing to Pearblossom Highway.
- Address traffic safety concerns (higher than state average incident rates).
- Improvements may include lane additions (where there are gaps), realigning ramps, widening structures, constructing retaining walls and modifying drainage.
- **Metro leading environmental phase.**

Multimodal Elements

- Environmental document will evaluate a broad range of alternatives that will be inclusive of multimodal elements (e.g., commuter rail, bike, ped improvements).

Status

- Environmental phase projected to start in Summer 2023.



Challenges

- VMT analysis and identification of potential mitigation may need to be conducted.