



Metro

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

## Board Report

---

**File #:** 2020-0741, **File Type:** Informational Report

**Agenda Number:** 7.

---

### MEASURE R INDEPENDENT TAXPAYERS OVERSIGHT COMMITTEE November 4, 2020

**SUBJECT: RECEIVE Oral Report on Transit and Highways**

**ACTION: ORAL REPORT**

**RECOMMENDATION**

Oral Report on Transit and Highways

# **Program Management Major Transit Project Status Report**

Presented By

**Brian Boudreau**

Senior Executive Officer, Project Management Oversight

# CRENSHAW/LAX TRANSIT PROJECT

## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$2,148M	\$2,148M

## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	May 2021	TBD - 2021

- Overall Project Progress is 96.4% complete.
- Contractor continues work on all stations and street work restoration/landscaping across Project.
- Concerned that Contractor is not applying sufficient work force to complete their remaining work and their systems testing by December 2020.



Excavating/removing section of pavement for restoration on southbound Crenshaw Blvd. and 54<sup>th</sup> St.



Continue installing supports and fixture for crossover lighting at the invert level of Expo/Crenshaw Station.



On target



Possible problem



Major issue

# REGIONAL CONNECTOR TRANSIT PROJECT



## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$1,816M	\$1,816M



## SCHEDULE

	<u>Current</u> Summer/Fall 2022	<u>Forecast</u> Summer/Fall 2022
REVENUE OPERATION		

- Overall Project Progress is 70% complete.
- Little Tokyo/Arts District Station & Surrounding Area:** Final preparations underway for decommissioning Gold Line Little Tokyo/Arts District Station scheduled to begin October 24th.
- Historic Broadway Station:** Entrance structure construction advancing as planned.
- Grand Av Arts/Bunker Hill Station:** Structural concrete, MEP and systems installation continues throughout the Station.
- Flower Street:** Installation of final walls and roof continue for tie-in to 7<sup>th</sup>/Metro Station.



Direct Fastener plates and track assembled in left tunnel reach 2



Aluminum shoring installation for roof deck at the future



On target



Possible problem



Major issue

# WESTSIDE PURPLE LINE EXTENSION – SECTION 1



## BUDGET

	<u>Current</u>	<u>Forecast</u>
<b>TOTAL COST*</b>	<b>\$3,354M</b>	<b>\$3,354M</b>

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
<b>REVENUE</b>	<b>Fall</b>	<b>Fall</b>
<b>OPERATIONS</b>	<b>2024 (FFGA)</b>	<b>2023</b>

- Overall Project Progress is 64% complete.
- Wilshire/Western Retrieval Shaft:** Continued support of Reach 1 cross passage construction. Break through into Wilshire/Western Station continues.
- Wilshire/La Brea Station:** Station structure concrete work continues including 2nd lift exterior walls and concrete roof placement. Concrete for the first set of permanent stair was placed on September 4, 2020.
- Wilshire/Fairfax Station:** The first concourse concrete placement (Block 10) occurred on August 22, 2020. Entrance plaza structure and appendage work continue.
- Wilshire/La Cienega Station:** Structural concrete placement continues. The first 2<sup>nd</sup> lift wall placement in the high bay area (Block 10) was completed on September 11, 2020.
- Tunneling:** As of September 13, 2020, the Purple TBM (Elsie) has mined 1,992 feet (61% complete) and the Red TBM (Soyeon) has mined 1,734 feet (53% complete) of the Reach 3 tunnel.
- Reach 1 Tunnel Cross Passages (CP):** 6 out of 12 cross passages have been excavated. Concrete placement of the 1<sup>st</sup> cross passage is complete (CP#11). Work continues at all other cross passages. Completion anticipated in February 2021.
- Reviewing any impacts differing site conditions and third party requirements may have on the project schedule.



Wilshire/Fairfax Station concourse rebar installation



View of Reach 1 Cross Passage #8



On target



Possible problem



Major issue



# WESTSIDE PURPLE LINE EXTENSION – SECTION 2



## BUDGET

	<u>Current</u>	<u>Forecast</u>
<b>TOTAL COST*</b>	<b>\$2,530M</b>	<b>\$2,530M</b>

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
<b>REVENUE</b>	<b>Winter</b>	<b>Summer</b>
<b>OPERATION</b>	<b>2026 (FFGA)</b>	<b>2025</b>

- Overall Project progress is 36% complete.
- **Century City Constellation Station**
  - Pile installation in Constellation Blvd west of the launch box is anticipated to be complete by November 2020.
  - Decking operations west of the launch box are anticipated to be complete by Thanksgiving 2020.
- **Wilshire/Rodeo Station**
  - Excavation of the station box was 50% completed as of late September 2020.
- **Tunneling**
  - The abandonment of the two legacy oil wells by BHUSD's contractor is ongoing with oversight by CalGEM. Both wells are in the path of the BR tunnel. Abandonment of the first well was completed in September 2020.
  - The BL TBM (Ruth) entered the tunnel access shaft in September 2020.
  - The re-launch of the BR TBM (Harriet) will occur after completion of the oil well abandonment work by BHUSD.
  - Tunneling operations will be transitioned to the access shaft after each TBM passes through the shaft.



Pile installation west of the launch box in Century City



Excavation of station entrance in Beverly Hills



On target



Possible problem



Major issue

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3



## BUDGET

	<u>Current</u>	<u>Forecast</u>
<b>TOTAL COST*</b>	<b>\$3,611M</b>	<b>\$3,611M</b>

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
<b>REVENUE OPERATION</b>	<b>Winter 2028 (FFGA)</b>	<b>Spring 2027</b>

- Overall Project progress is 14% complete.
- Final design progress is 68% complete.
- **C1151 Tunnel Contract**
  - BM No.1 has been assembled in the tail track exit shaft (launch shaft); starter gantry to follow.
  - TBM launch seal and headwall are complete.
  - So Cal Edison completed their work to provide power to operate the TBMs.
  - Fabrication of tunnel precast concrete liners are ongoing.
  - Installation of instrumentation and monitoring equipment are ongoing..
- **C1152 Stations, Trackwork and Systems Contract**
  - Final design is ongoing.
  - Relocation of the Stone Canyon Storm Drain at the Westwood/UCLA Station parking Lot 36 site has been completed.
  - VA parking lots refurbishment for temporary displaced parking during construction and electrical service conduit for the station is ongoing.
- **Other Third Party Utility Relocation Work**
  - Joint trench activities for combining Verizon and Frontier telecommunications remaining work, cable pulling/splicing, is anticipated to complete by Oct 30, 2020.



TBM Launch Cradle at base of excavated tail track exit shaft.



Reinforced concrete boxes for storm drain relocation.



On target



Possible problem



Major issue



# METRO MEASURE R OVERSIGHT COMMITTEE

## HIGHWAY PROGRAM PROGRESS UPDATE NOV. 2020

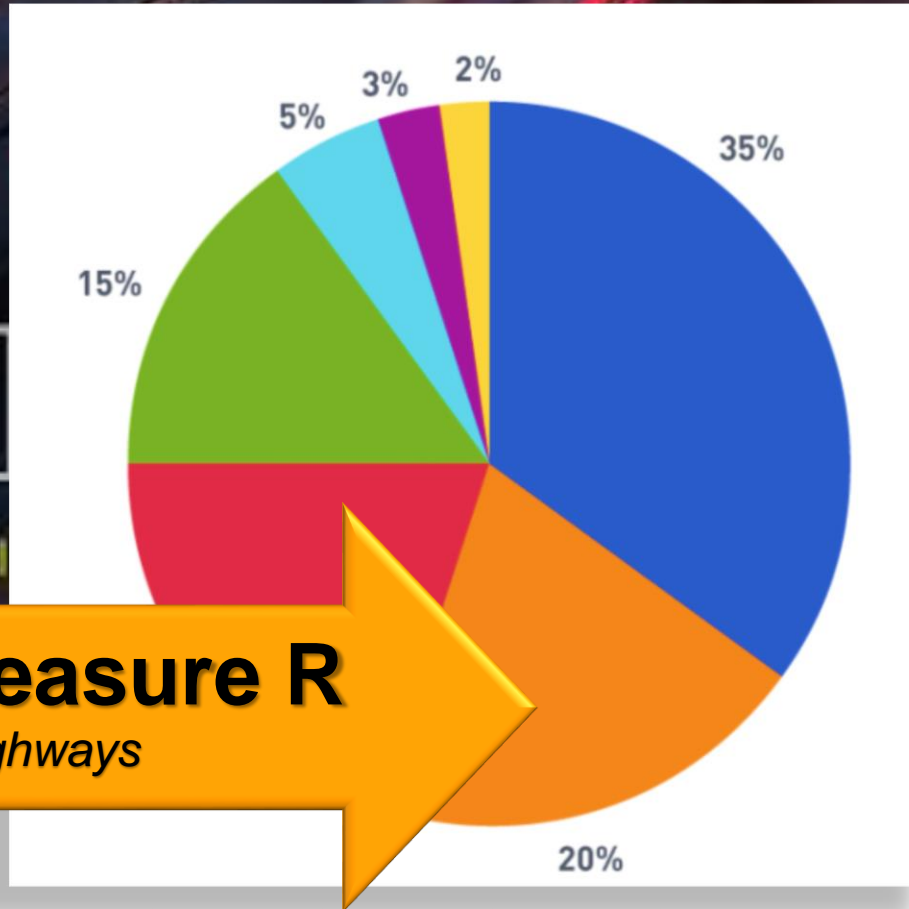


**Metro**

**Abdollah Ansari**  
**Sr. Executive Officer – Highway Program**



# Measure R



**Measure R**  
*Highways*

## Expenditure Plan

- Rail and Rapid Transit Expansion
- Highway Improvements
- Bus Operations
- Local Return Improvements
- Rail Operations
- Metrolink Capital
- Metro Rail Capital



**Metro**

# Measure R Highway Projects



# Progress

2

- *I-5 HOV Lanes; SR-14 to Parker Road*
- *I-605/South Street Interchange Improvements*

*Construction Ready*

*Construction Ready*

3

- *I-710 Early Action Projects (Soundwalls)*

*Design & Construction*

7

- *SR-57/SR-60 Interchange Improvements*
- *SR-138 Widening, Rancho Vista Blvd. to Palmdale Blvd.*
- *SR-138/SR-14 10th Street West Interchange*
- *SR-138 (Palmdale Blvd.), 5th St. to 10th Street East*
- *SR-138/SR-14 Avenue M Interchange*
- *SR-91 WB widening between Shoemaker and I-605*
- *SR-72, Whittier Blvd. @Painter and S.F. Springs Rd.*

*Design*

*Design*

*Design*

*Design*

*Design*

*Design*

*Design*



**Metro**



# Progress

5

- |  |                          |
|--|--------------------------|
| • <i>SR-60/7th Avenue Interchange Improvements</i>     | <i>Env. &amp; Design</i> |
| • <i>SR-91 Widening, Eastbound, Atlantic to Cherry</i> | <i>Env. &amp; Design</i> |
| • <i>SR-91/Central Avenue Improvements</i>             | <i>Env. &amp; Design</i> |
| • <i>I-605/Beverly Blvd. Interchange Improvements</i>  | <i>Env. &amp; Design</i> |
| • <i>I-605/Valley Blvd. Interchange Improvements</i>   | <i>Env. &amp; Design</i> |
- 

10

- |   |                      |
|---|----------------------|
| • <i>SR-138/SR-14 SB Ramps at Palmdale Blvd.</i>            | <i>Environmental</i> |
| • <i>SR-138/SR-14 Avenue G Interchange</i>                  | <i>Environmental</i> |
| • <i>SR-138/SR-14 Avenue J Interchange</i>                  | <i>Environmental</i> |
| • <i>SR-138/SR-14 Avenue K Interchange</i>                  | <i>Environmental</i> |
| • <i>SR-138/SR-14 Avenue L Interchange</i>                  | <i>Environmental</i> |
| • <i>SR-138/SR-14 Avenue N Overcrossing</i>                 | <i>Environmental</i> |
| • <i>I-405 NB and SB Imp., I-405 to Artesia Blvd.</i>       | <i>Environmental</i> |
| • <i>I-605 Corridor Between I-105 and I-10 Improvements</i> | <i>Environmental</i> |
| • <i>I-710/Shoemaker Bridge Replacement</i>                 | <i>Environmental</i> |
| • <i>I-710 Corridor Improvements</i>                        | <i>Environmental</i> |



**Metro**

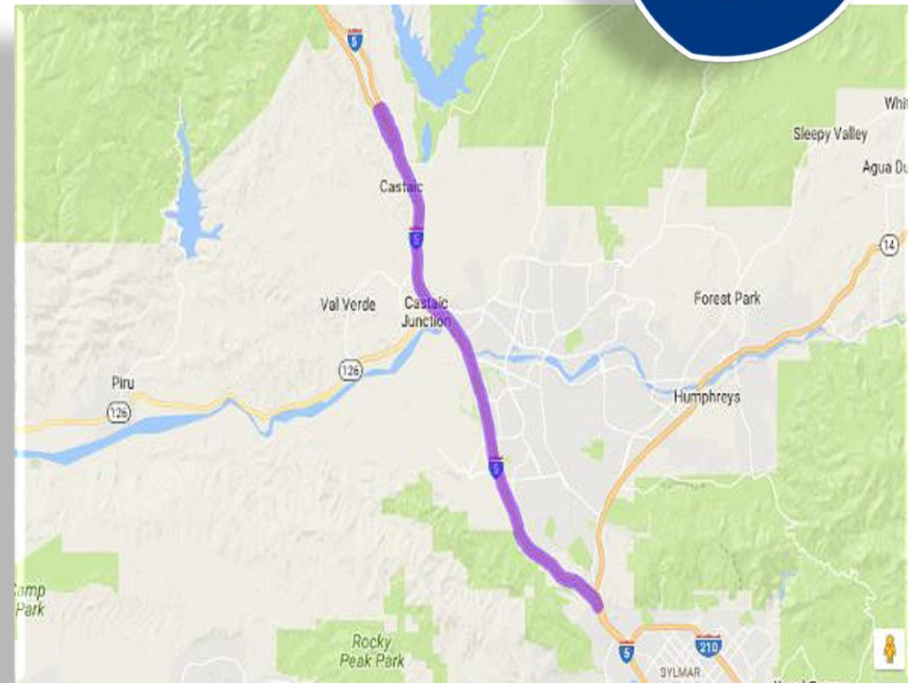
# Upcoming

• <i>Local Streets/Intersections</i>	<i>Var. Phases</i>
• <i>Freight Advanced Traveler Information System</i>	<i>Study/Technology Implementation</i>
• <i>SR-710 Mobility Improvement Projects</i>	<i>Not started yet</i>
• <i>I-710 Early Action Projects (Interchanges)</i>	<i>Not started yet</i>

# I-5 North HOV and Truck Lanes



- 14 miles of HOV lanes in both directions
- 2 miles of truck climbing lanes at the south end
- 7 bridge modifications at:
  - Gavin Canyon
  - Calgrove Blvd.
  - Butte canyon
  - Magic Mountain Pkwy.
  - Santa Clara OH
  - Rye Canyon
  - Castaic Creek Bridge
- 1 bridge replacement at Weldon Canyon
- Soundwalls and retaining walls
- Completion of design: 2019
- [Construction advertising in November 2020](#)





# SR-57/SR-60 Interchange

- Metro Measure M Project
- Metro Call For Projects – In Progress
- Metro Call For Projects – In Progress
- Future Project



Construction: 2022



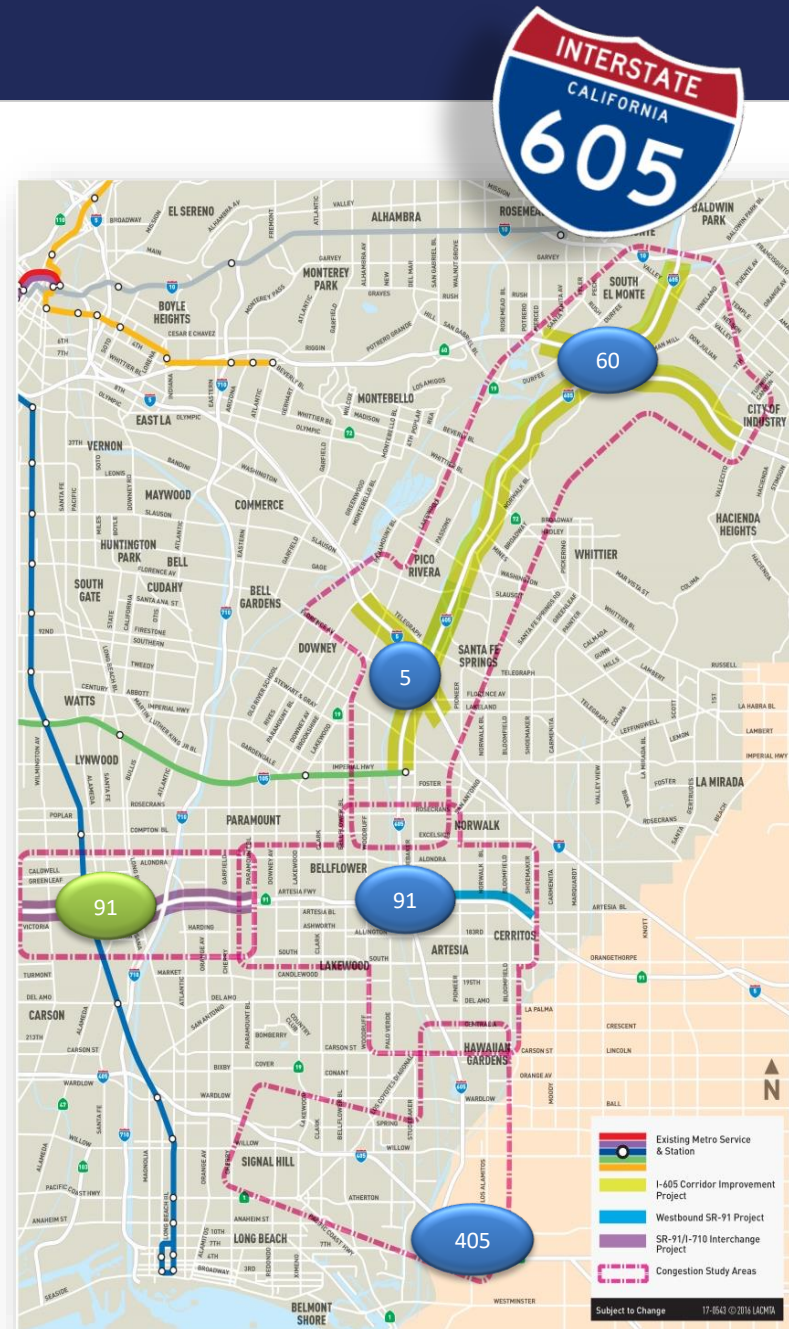
# I-605

## Project Summary

- Freeway widening/additional lanes, ExpressLanes, ramp reconfigurations, arterial intersection enhancements, signage, and safety features
- Estimated total cost of projects in the I-605 corridor between I-105 and I-10: \$5+ billion

## Status Update

- Corridor environmental studies in progress – completion in 2021
- PIDs, environmental clearance, and final design in progress for various “Early Action” projects
- One project is ready for construction





# "Hot Spots" Program



I-605/Valley Blvd.  
Construction in 2022

SR-60/7th Ave.

I-605/Beverly Blvd.  
Construction in 2021

WB-91 Alondra to  
Shoemaker

SR-91 Atlantic to  
Cherry

SR-91 Central to  
Acacia

I-605/South St.  
Construction in 2021



Metro

I-605/I-10

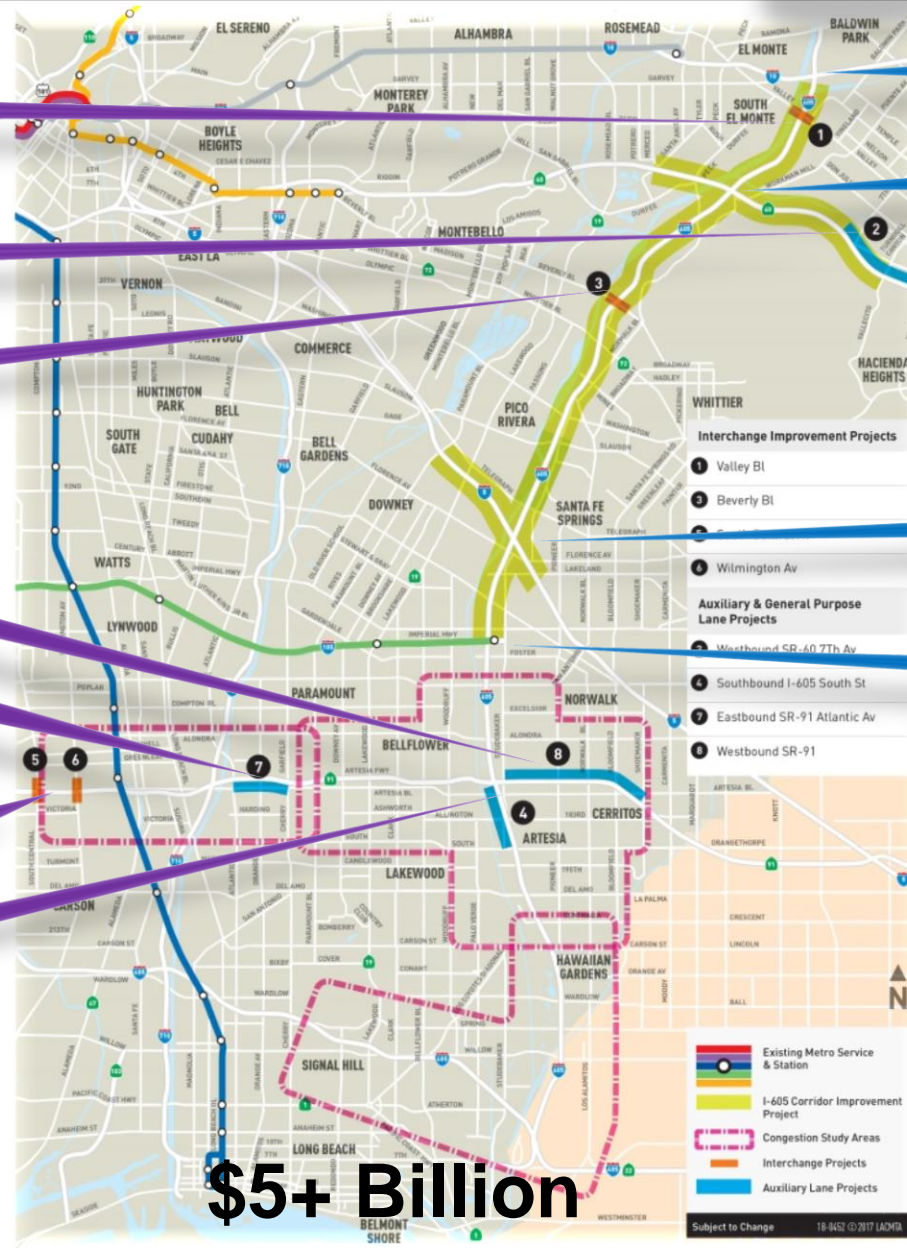
I-605/SR-60

I-605/I-5

I-605/I-105

+ Over 30 Arterial  
Intersection  
Improvements

\$5+ Billion



Subject to Change 18-0452 © 2017 LADOT



# I-710



## Project Summary

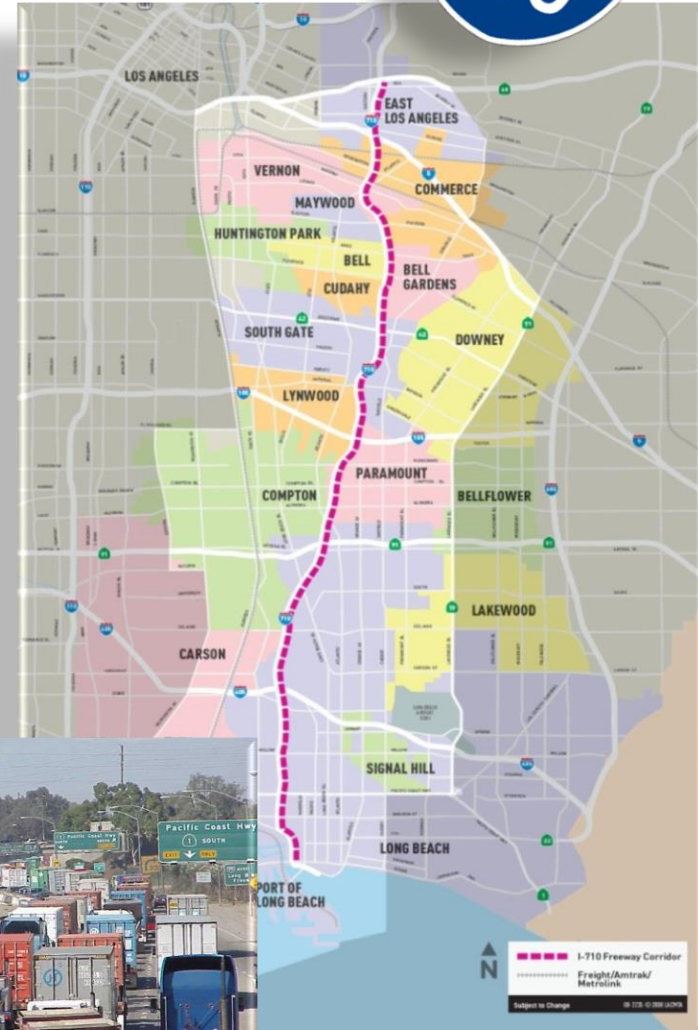
- In PAED phase
- 18 miles between the Ports of Long Beach and Los Angeles and the SR-60
- Locally-Preferred Alternative Selected:
  - 5C: One lane + upgrading
- Estimated Cost: \$6-\$11 billion
- Includes “Early Action” Projects
- \$420 mil in Measure R and \$500 mil. in Measure M

## Status Update

- Final EIR/EIS: TBD
- Early Action projects final design starting upon approval of the final ED and contingent upon no legal action preventing progress



**Metro**



# Early Action Projects

Project prioritization through collaboration with the corridor cities/GCCOG





# SR-710

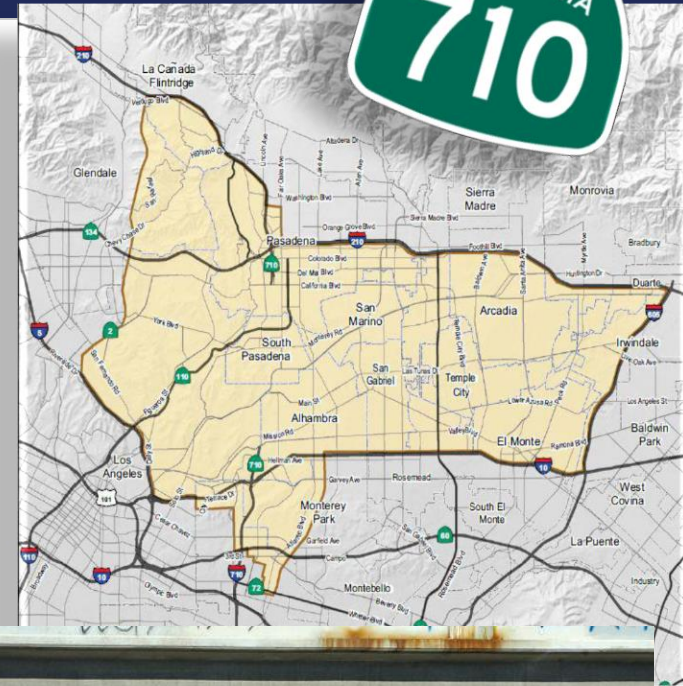


## Project Summary

- \$780M in Measure R funds
- \$300+M in other funds
- PAED Completed
- Preferred Alternative selected:  
Transportation System  
Management/Transportation Demand  
Management (TSM/TDM)
- Mobility improvement projects (MIP)  
identified for funding and implementation

## Status Update

- FED and ROD approved/signed
- Programming of approved TSM/TDM  
and MIPs in 2019-20



# I-405

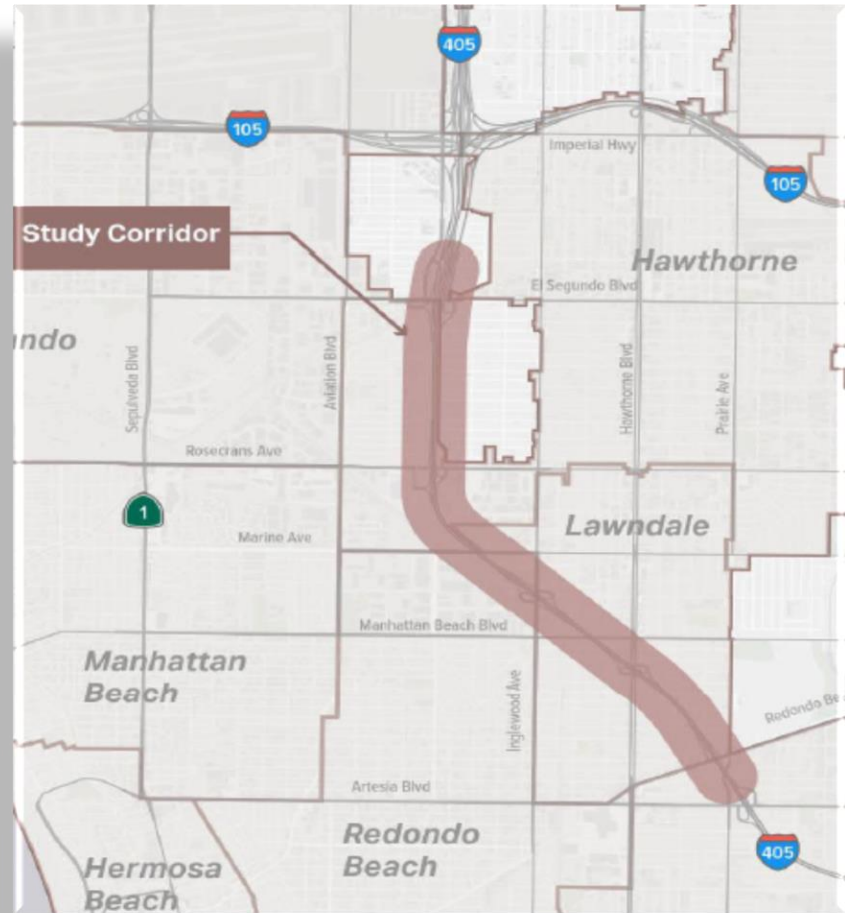


## Project Summary

- Add auxiliary lanes NB & SB from I-105/I-405 to Artesia Blvd off-ramp

## Status Update

- PSR completed Nov. 2018
- PAED commenced in March 2019
- Construction in 2023



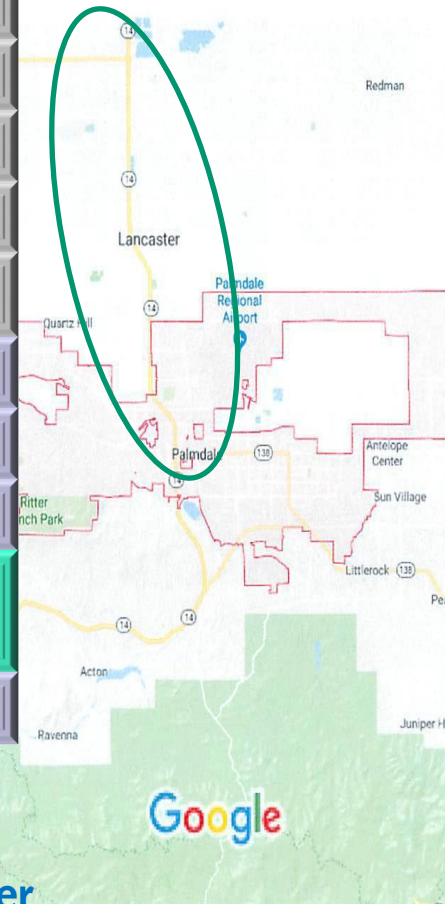
Metrolink



# M.R. SR-14/138 Projects



	Project	Construction Date (Estimate)
Lancaster	SR-138/SR-14 Avenue K Interchange	February 2022
	SR-138/SR-14 Avenue G Interchange	March 2021
	SR-138/SR-14 Avenue J Interchange	October 2020
	SR-138/SR-14 Avenue L Interchange	January 2022
	SR-138/SR-14 Avenue M Interchange	January 2022
Palmdale	SR-138/Palmdale Blvd., 5th to 10th Street East	October 2021
	SR-138/Palmdale Blvd., SB SR-14 Ramps	January 2021
	SR-138, 10th Street West Interchange	August 2022
	SR-138 Widening, Rancho Vista Blvd. to Palmdale Blvd.	In Const. (11/2018)
	SR-138, Avenue N Overcrossing	May 2022



**Metro**

**Construction contracts by Palmdale and Lancaster**

# High Desert Corridor



## Project Summary

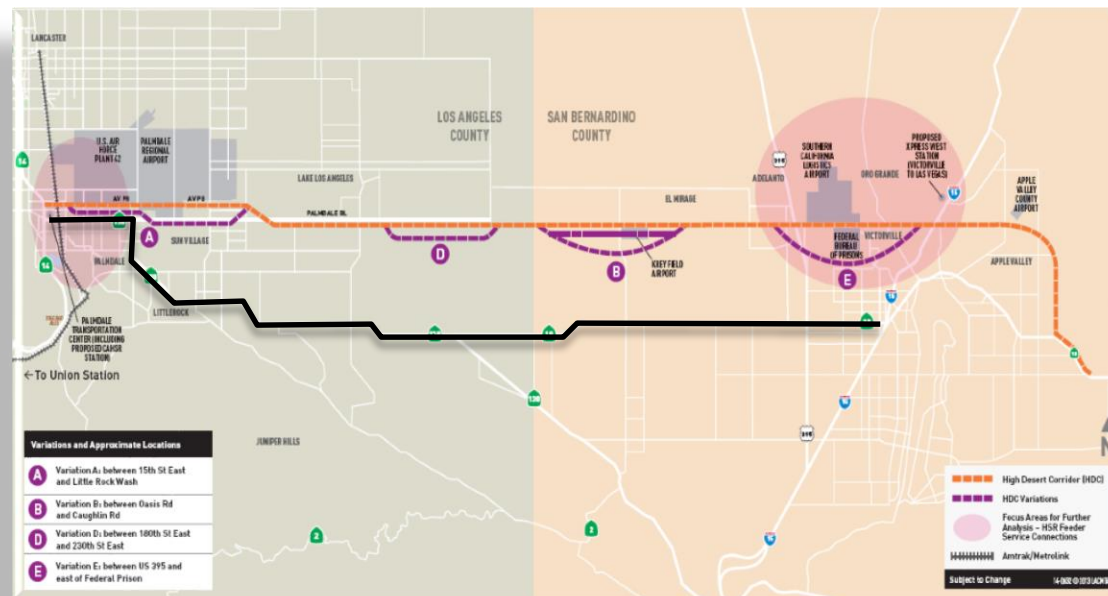
- 63 miles - Highway, Expressway, Tollway, High Speed Rail, Bikeway, and energy production/transmission corridor concepts
- Connecting North Los Angeles County and San Bernardino County (Victorville)
- Transit connection between the CHSR and the XpressWest
- In Measure M for ROW and related services in 2019
- More funds in later years
- Final EIR/EIS completed in 2016

## Status Update

- Multi-agency efforts in assessing other feasible alternatives
  - Highway
  - rail



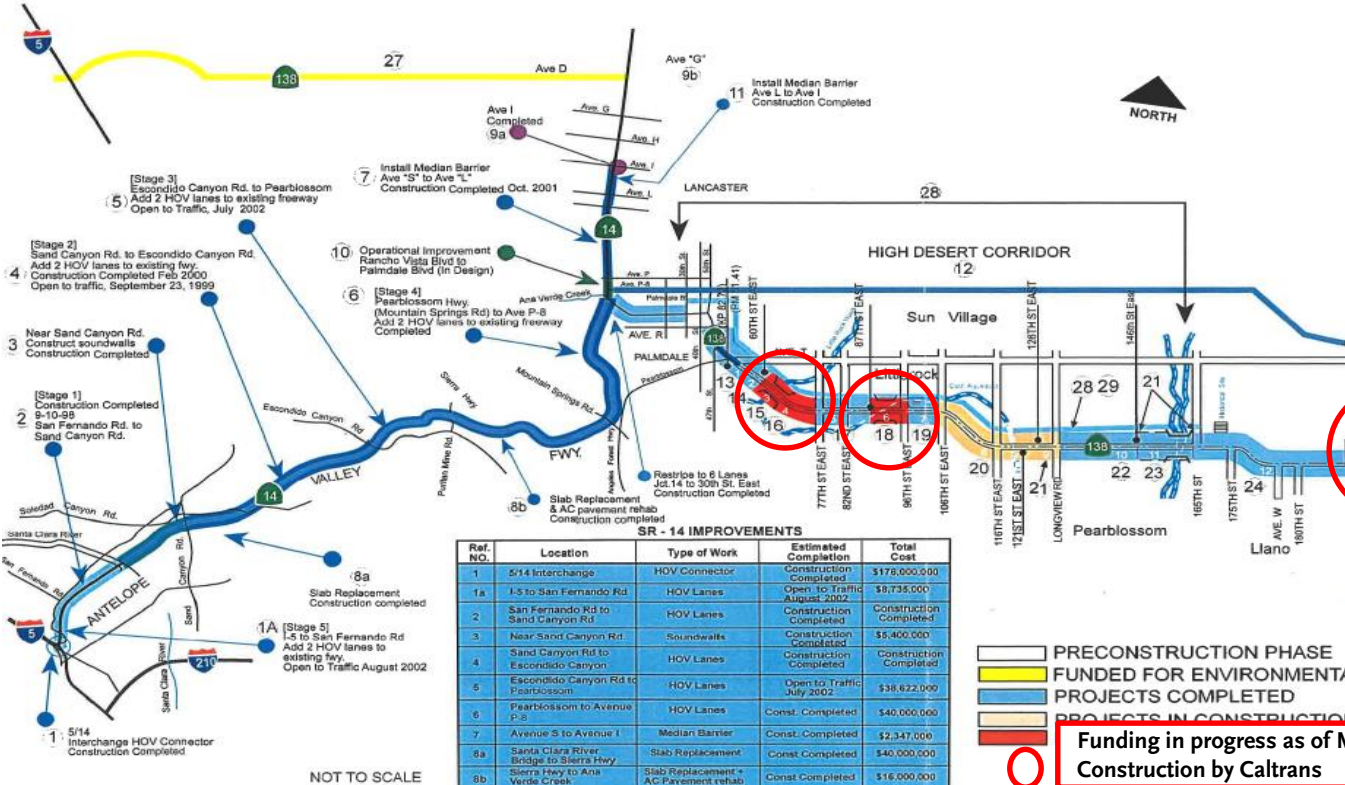
**Metrolink**



# SR-138, SR-14 to LA/SB County Line



## CALTRANS PROJECTS ON ROUTES 14 AND 138 IN LOS ANGELES AND SAN BERNARDINO COUNTIES



SR - 14 IMPROVEMENTS				
Ref. NO.	Location	Type of Work	Estimated Completion	Total Cost
1	5/14 Interchange	HOV Connector	Construction Completed	\$178,000,000
1a	I-5 to San Fernando Rd	HOV Lanes	Open to Traffic August 2002	\$8,735,000
2	San Fernando Rd to Sand Canyon Rd	HOV Lanes	Construction Completed	Construction Completed
3	Near Sand Canyon Rd	Soundwalls	Construction Completed	\$5,400,000
4	Sand Canyon Rd to Escondido Canyon	HOV Lanes	Construction Completed	Construction Completed
5	Escondido Canyon Rd to Pearblossom	HOV Lanes	Open to Traffic July 2002	\$38,622,000
6	Pearblossom to Avenue P-8	HOV Lanes	Const. Completed	\$40,000,000
7	Avenue S to Avenue I	Median Barrier	Const. Completed	\$2,347,000
8a	Santa Clara River Bridge to Sierra Hwy	Slab Replacement	Const. Completed	\$40,000,000
8b	Sierra Hwy to Ana Verde Creek	Slab Replacement + AC Pavement rehab	Const. Completed	\$16,000,000
10	Rancho Vista Blvd to Palmdale Blvd	Operational Improvement	Summer 2019	\$20,000,000
11	Lancaster Avenue L to Avenue I	Median Barrier	Const. Completed	\$1,711,000

SR - 138				
Ref. NO.	Location	Project Description	Status	Estimated Cost
12	LA - 14 to SB-18 High Desert Corridor	Multi-phase	Completed	\$1,000,000
13	From Ave R to 60th St (Extended Seg. 1)	Pavement Rehabilitation	Completed	\$1,000,000
14	From 60th St. to E of Ave T (Seg. 2)	Widen to 4 lanes	Completed	\$10,000
15	From 0.3 mile West of Little Rock Wash to 77th St.	Widen to 4 lanes	Not funded	\$24,500
16	Combine Seg. 3 & 4			
17	From 77th St to 87th St (Seg. 5)	Widen to 3 lanes	Completed	\$11,500
18	87th St. to 96th St (Seg. 6)	Widen to 4 lanes	Not funded	\$32,000
19	from 96th St to 106th St (Seg. 7)	Widen to 4 lanes	Summer 2009	\$10,000
20	from 0.7 mile West of 121st St. to Longview Rd	Widen to 4 lanes	Fall 2018	\$20,200
21	Combine Segs 8 & 9			
22	From Longview Rd to 145th St (Seg. 10)	Replace Bridge and Widen Highway to 4 lanes	Completed	\$9,000
23	Twin Bridge (Seg. 11)	Widen to 4 lanes	Completed	\$24,000
24	From 165th to 190th St. (Seg. 12)	Widen to 4 lanes	Completed	\$39,811
25	From 185th St. to SR-18 Junction (Seg. 13)	Widen to 4 lanes	Not funded	\$62,000
26	Jct 18 to SB County Line	Widen roadway and Pave Shoulder	Summer 2017	\$30,300
27	I-5 to LA 14	Widen to 6 lanes	PAID Summer 2017	\$1,100,000
28	LA-138 from 30th St E. to 165th St E	Cold plane and overlay	Completed	\$19,200
29	LA-138 from 30th St E. to 165th St E	ADA compliance	Winter 2019	\$12,000

PRECONSTRUCTION PHASE

FUNDED FOR ENVIRONMENTAL STUDIES

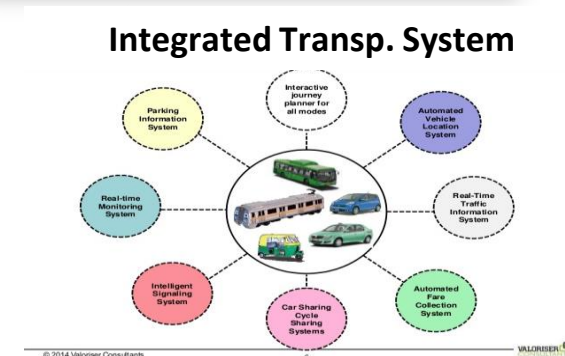
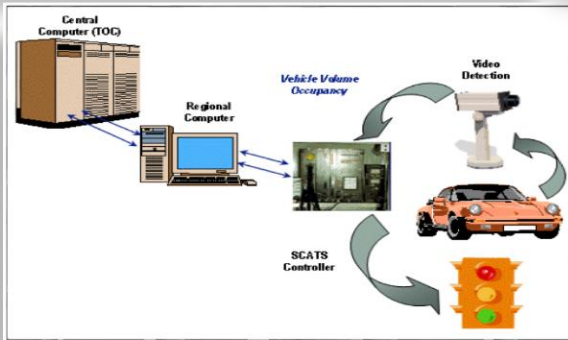
PROJECTS COMPLETED

PROJECTS IN CONSTRUCTION

Funding in progress as of March 2018. Construction by Caltrans



# Highway-Related Projects





# Bucket 1 – Work to Continue

## *Health and safety for customers and employees*

- PPE
- Cleaning services
- Additional expenses directly related to COVID-19

## *Operating and maintaining bus and rail services per Transit Operations Plan*

## *Federal and State regulatory required activities*

## *Legally required payments (contractual obligations)*

- Debt service
- Subsidies
- Licenses, utilities, rental, etc.

## *Major infrastructure and projects under executed contracts*

- Airport Metro Connector <sup>(1)</sup>
- Crenshaw/LAX <sup>(1)</sup>
- Division 20 Portal Widening and Turnback
- Gold Line Foothill Extension <sup>(1)</sup>
- I-5 North HOV (along SR-134 to Buena Vista area) <sup>(1)</sup>
- I-5 South HOV (I-605 to Orange County line) <sup>(1)</sup>
- Light Rail Vehicle Acquisition Program
- Link US (Phase 1 only)
- Metro Bus Fleet Replacement (incl. electrification for buses and infrastructure for Orange Line)
- Patsaouras Bus Station
- Purple Line Extension <sup>(1)</sup>
- Regional Connector <sup>(1)</sup>
- Soundwall Package 11 <sup>(1)</sup>
- SR-138 Corridor project in construction <sup>(1)</sup>
- Willowbrook/Rosa Parks Station Upgrade & Mezzanine



**Metro**

# Bucket 2 - Projects to be Delayed

## *Highway / Street Improvements*

- Adams Flyover
- Alameda Corridor East grade separation phase 2 <sup>(1)</sup>
- Centinela grade separation
- Countywide Soundwall Noise Studies <sup>(1)</sup>
- Eastside Light Rail Access <sup>(1)</sup>
- First / Last Mile (PLE and others) <sup>(1)</sup>
- I-105 ExpressLanes <sup>(1)</sup>
- I-210 Barriers
- I-5 Capacity Enhancements (SR14 to Parker Road) <sup>(1)</sup>
- I-5 Corridor Improvement I-605 to I-710 <sup>(1)</sup>
- I-605 Hotspots (incl SR-91 interchange) <sup>(1)</sup>
- I-710 South Corridor Project <sup>(1)</sup>
- L.A. River (Bike) Path <sup>(1)</sup>
- La Canada Soundwalls
- Rail to Rail ATP
- Rail to River ATP
- Rosecrans/Marquardt Grade Separation <sup>(1)</sup>
- Soundwall Packages 12, 13, and 14 <sup>(1)</sup>
- South Bay Highway Operational Improvements <sup>(1)</sup>
- SR-138 new project initiation documents <sup>(1)</sup>
- SR-57 / SR-60 Interchange Improvements <sup>(1)</sup>
- SR-71 GAP - Mission Blvd to San Bernardino County Line <sup>(1)</sup>

# Discussions

