

# Measure M Independent Taxpayer Oversight Committee

## Program Management Status Report



**Brian Boudreau**  
Senior Executive Officer,  
Program Control

**Abdollah Ansari**  
Sr. Executive Officer,  
Highway Programs

July 7, 2020



# Transit

Brian Boudreau  
Sr. Executive Officer



Photo by Gayle Anderson/Metro



Metro



# Westside Purple Line Extension Section 3 (Century City Constellation to Westwood/VA Hospital)

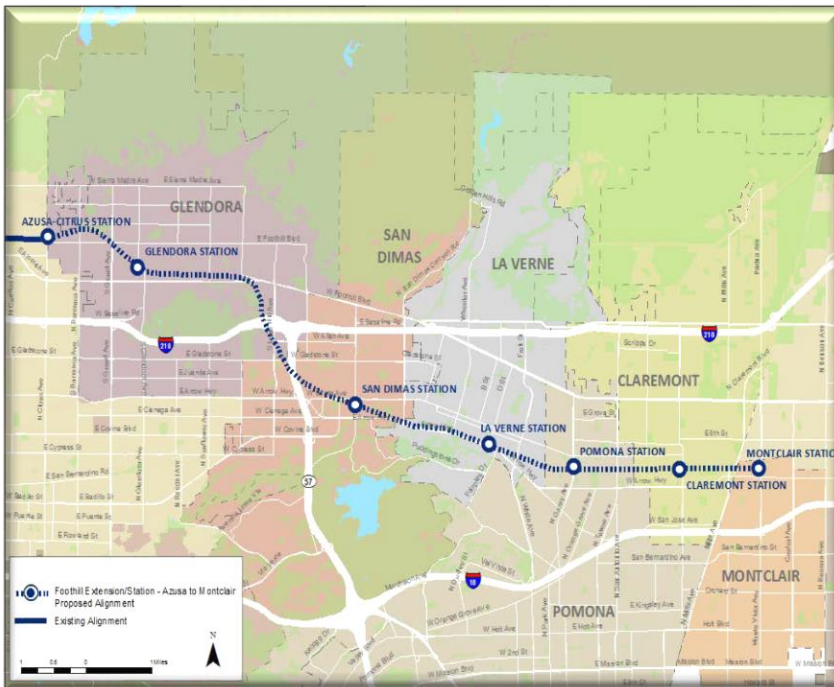


- Twin-bored tunnels and two new subway stations:
  - Westwood/UCLA
  - Westwood/VA Hospital
- \$3.61 billion budget
- Project is 10% complete
- Forecast Revenue Service Date 2027

# Gold Line Foothill Extension Phase 2B

## Gold Line Foothill Construction Authority

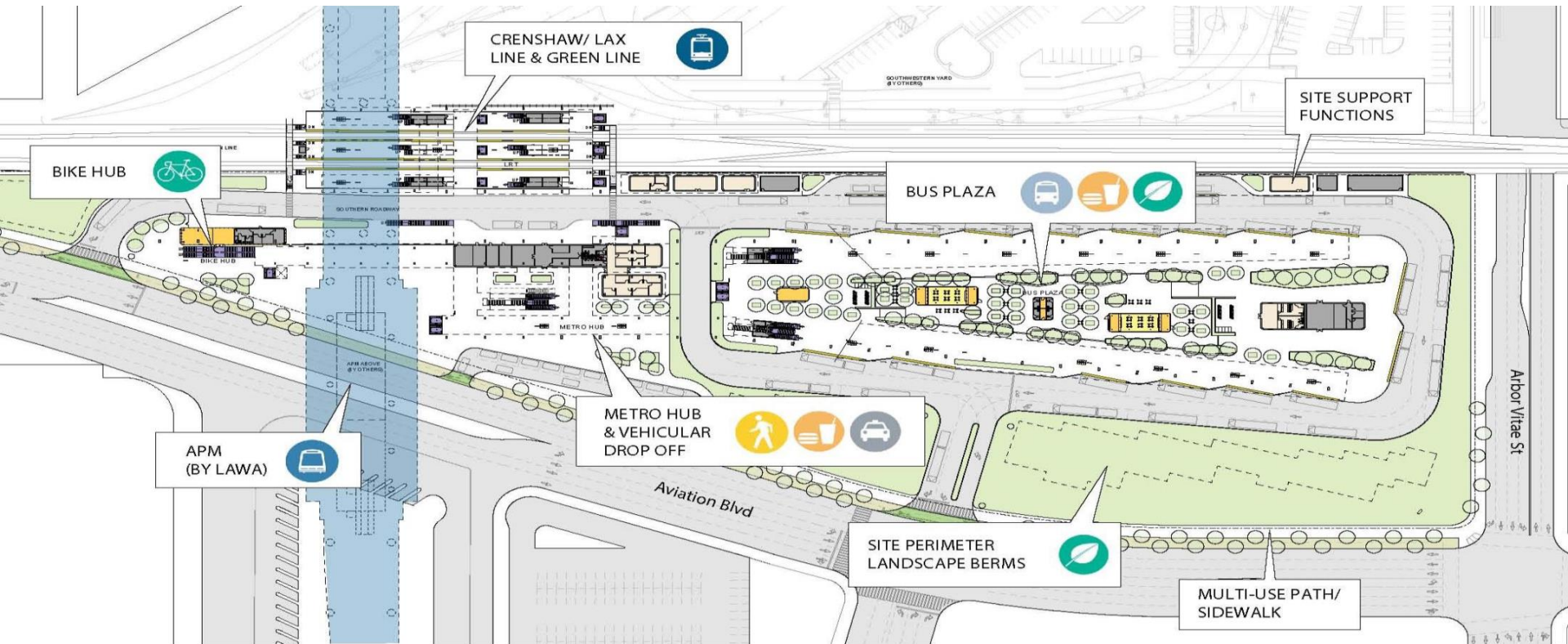
Design Build Contract for Main Line, Stations, Systems - Awarded Oct. 2019  
Complete First Phase to Pomona 2025



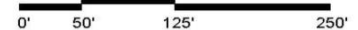


# Airport Metro Connector

Bid & Award 2020 – Construction 2021 – Complete 2024



- Passenger Amenities (Enclosed)
- Station Staff Areas
- Vertical Circulation
- Multi-use Path (Proposed)
- Passenger Waiting Areas (Enclosed)
- Station Support Areas
- Planters / Vegetation / Site Perimeter Landscape



# East San Fernando Valley Transit Corridor

Advertise Design Build Contract – 2021  
Begin Construction – 2022  
Complete – 2028





# West Santa Ana Transit Corridor

20 Mile Light Rail Line  
Union Station to Terminus in Artesia

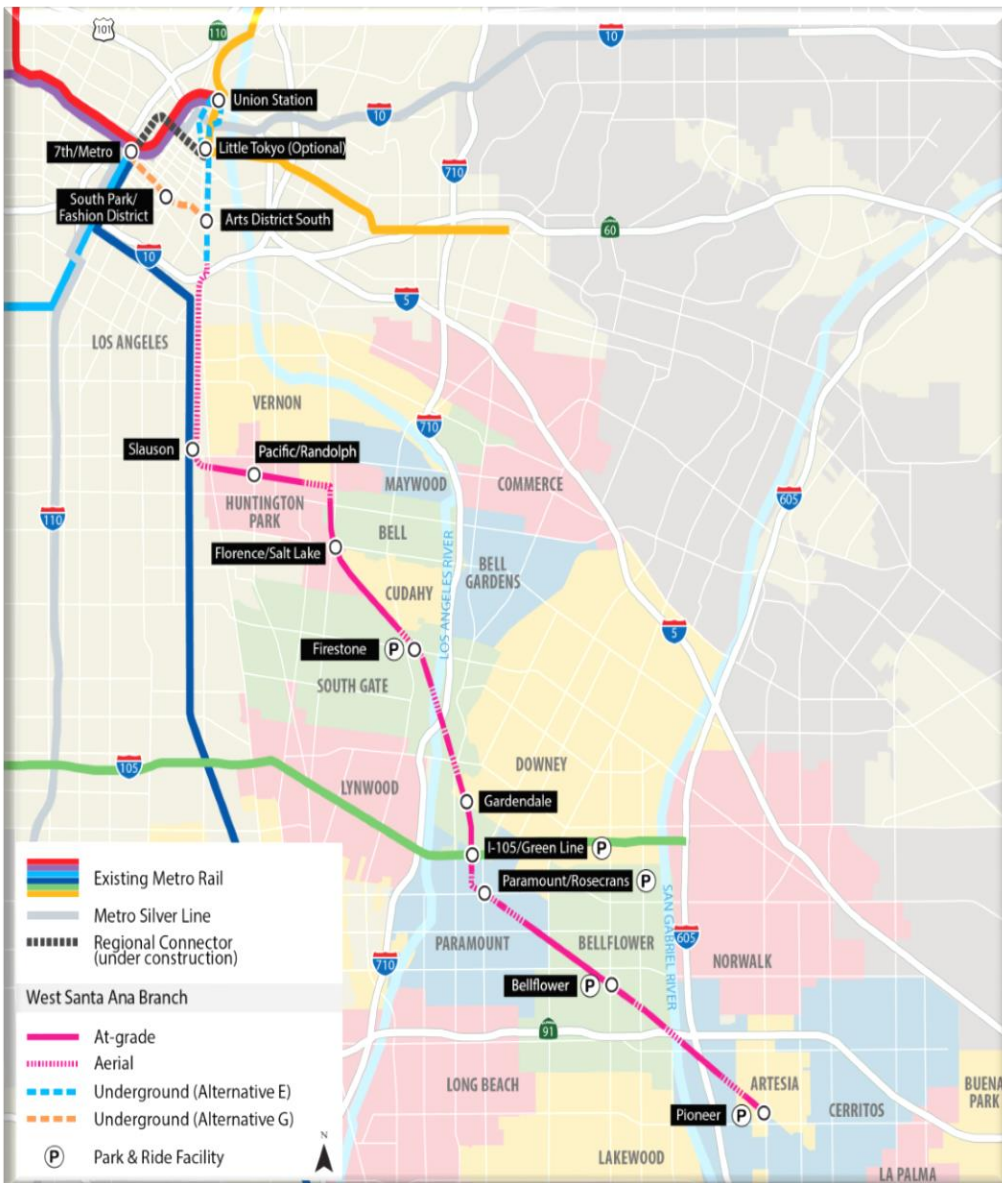
## Phase I

Long Range Transportation Plan  
Cost Estimate \$1.04B  
Environmental Complete -2021  
Engineering 2019 to 2022

## Phase 2

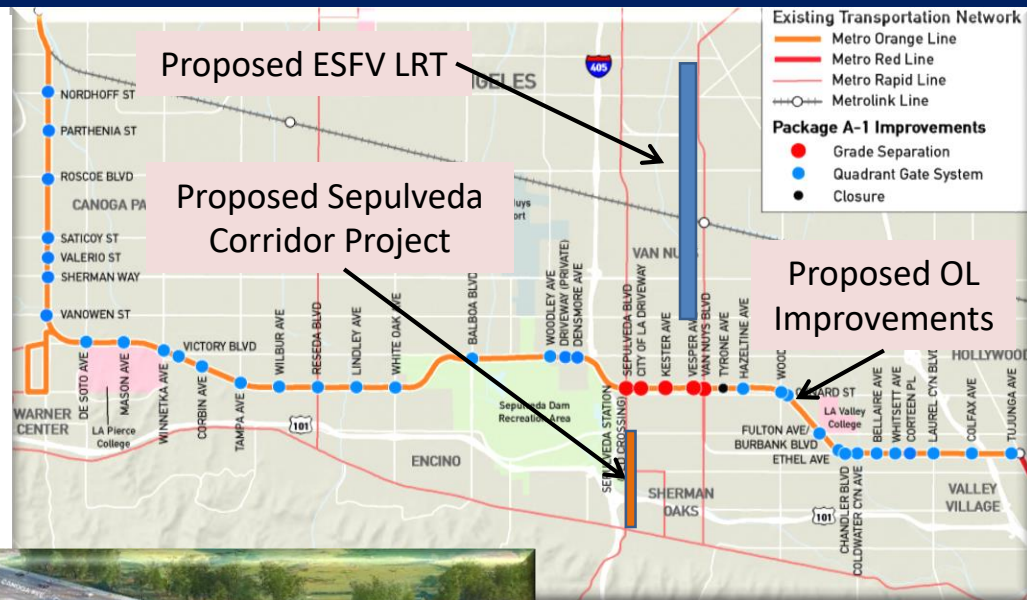
Long Range Transportation Plan  
Cost Estimate \$2.97B

Metro Developing a P3 Package



# Orange Line BRT Improvements

- Railroad-type gates at up to 35 intersections
- Aerial Stations at Sepulveda & Van Nuys
- Provisions for connections to ESFV LRT Terminal Station on Van Nuys
- Designed for future conversion to LRT
- Schedule: 30% design for Sepulveda and Gate completed, major construction to commence in late 2021 and complete in 2025.

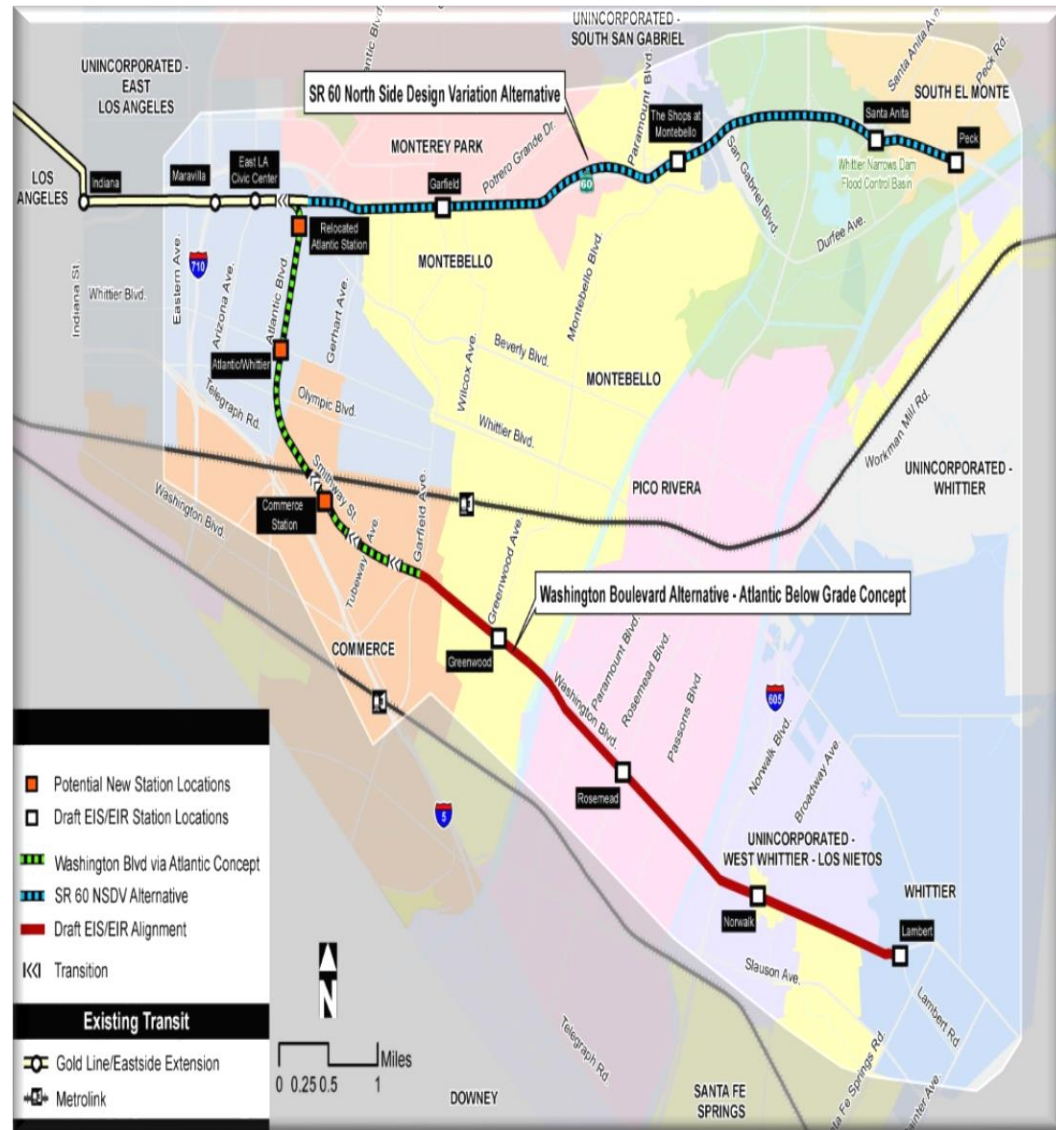




# Gold Line Eastside Extension Phase 2

Washington Boulevard alignment selected by the Board

Engineering 2025  
Construction 2029



# Green Line Extension to Torrance

- Redondo Station to Regional Transit Center in Torrance
- EIR 2020 – 2023; awarded contract for Environmental and Advanced Conceptual Engineering with an option to do Preliminary Engineering.
- Engineering 2022 - 2024
- Construction 2024 - 2028



Metro





# Sepulveda Pass Phases 1 & 2

- Feasibility Study 2019
- Environmental 2021 - 2025
- Project Development Agreements 2021-2025





# Measure M - Highways

Abdollah Ansari  
Sr. Executive Officer



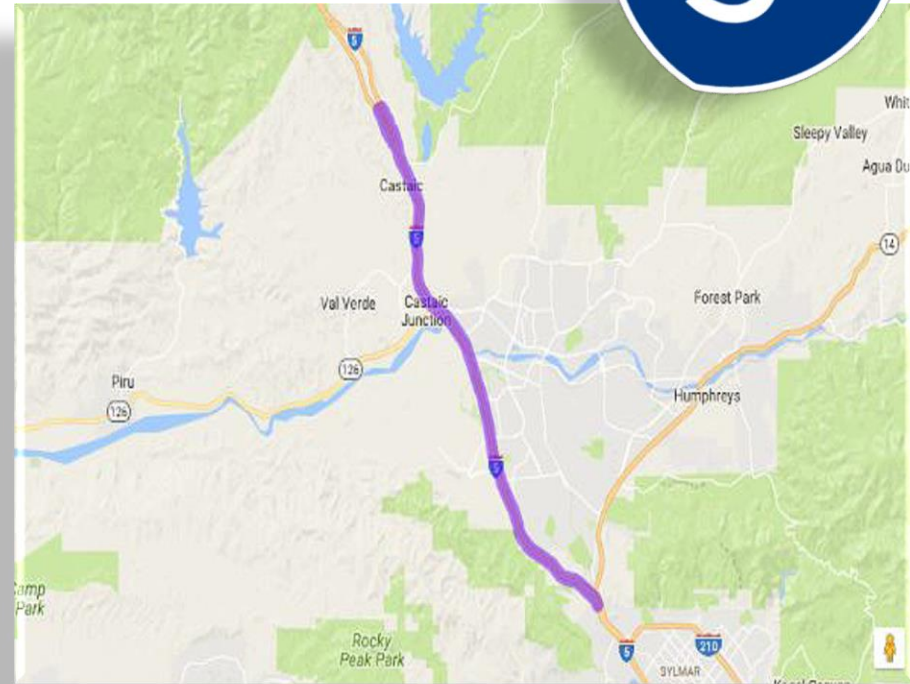


# Measures M Major Highway Projects

For Reference Only	Project (Final Project to be Defined by the Environmental Process)	Notes	Schedule of Funds Available		Subregion*	2016 - 2067 Local, State, Federal, Other Funding 2015\$	Measure — Funding 2015\$	Most Recent Cost Estimate 2015\$**	Modal Code
			Ground-breaking Start Date†	Expected Opening Date (3 year range)					
	<b>Expenditure Plan Major Projects</b>			1 <sup>st</sup> yr of Range					
1	Airport Metro Connect 96th St. Station/Green Line Ext LAX ®	a,p	FY 2018	CY 2021	sc	\$233,984	\$347,016	\$581,000	T
2	Westside Purple Line Extension Section 3 ®	b	FY 2018	FY 2024	w	\$986,139	\$994,251	\$1,980,390	T
3	High Desert Multi-Purpose Corridor (HDMC)®	q	FY 2019	FY 2021	nc	\$100,000	\$170,000	\$270,000	H
4	I-5 N Cap. Enhancements (SR-14 to Lake Hughes Rd) ®		FY 2019	FY 2023	nc	\$544,080	\$240,000	\$784,080	H
5	Gold Line Foothill Extension to Claremont ®	c	FY 2019	FY 2025	sg	\$78,000	\$1,019,000	\$1,097,000	T
6	Orange Line BRT Improvements	n	FY 2019	FY 2025	sf	\$0	\$286,000	\$286,000	T
7	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	av	\$0	\$240,300	\$240,300	T
8	BRT Connector Orange/Red Line to Gold Line	o	FY 2020	FY 2022	sf	\$0	\$26,700	\$26,700	T
9	East SF Valley Transit Corridor Project ®	d	FY 2021	FY 2027	sf	\$520,500	\$810,500	\$1,331,000	T
10	West Santa Ana Transit Corridor LRT ®	b,d	FY 2022	FY 2028	gc	\$500,000	\$535,000	\$1,035,000	T
11	Crenshaw/LAX Track Enhancement Project	e,p	FY 2022	FY 2026	sc	\$0	\$49,599	\$49,599	T
12	SR-71 Gap from I-10 to Rio Rancho Rd.		FY 2022	FY 2026	sg	\$26,443	\$248,557	\$275,000	H
13	LA River Waterway & System Bikepath		FY 2023	FY 2025	cc	\$0	\$365,000	\$365,000	H
14	Complete LA River Bikepath		FY 2023	FY 2025	sf	\$0	\$60,000	\$60,000	H
15	Sepulveda Pass Transit Corridor (Ph 1) ®	b,f	FY 2024	FY 2026	sf	\$0	\$130,000	\$130,000	H
16	Sepulveda Pass Transit Corridor (Ph 1) ®	b,f	FY 2024	FY 2026	w	\$0	\$130,000	\$130,000	H
17	Vermont Transit Corridor	o	FY 2024	FY 2028	cc	\$400,000	\$25,000	\$425,000	T
18	SR-57/SR-60 Interchange Improvements	d	FY 2025	FY 2031	sg	\$565,000	\$205,000	\$770,000	H
19	Green Line Extension to Crenshaw Blvd in Torrance ®	d,g	FY 2026	FY 2030	sb	\$272,000	\$619,000	\$891,000	T
20	I-710 South Corridor Project (Ph 1) ®	d,h	FY 2026	FY 2032	gc	\$150,000	\$250,000	\$400,000	H
21	I-105 Express Lane from I-405 to I-605	p	FY 2027	FY 2029	sc	\$0	\$175,000	\$175,000	H
22	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	sf	\$1,567,000	\$1,270,000	\$2,837,000	T
23	Sepulveda Pass Transit Corridor (Ph 2) ®	b	FY 2024	FY 2033	w	\$1,567,000	\$1,270,000	\$2,837,000	T
24	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	gc	\$957,000	\$543,000	\$1,500,000	T
25	Gold Line Eastside Extension (One Alignment) ®	d	FY 2029	FY 2035	sg	\$957,000	\$543,000	\$1,500,000	T
26	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	cc	\$1,082,500	\$400,000	\$1,482,500	T
27	West Santa Ana Transit Corridor LRT ®	r	FY 2022	FY 2041	cc	\$982,500	\$500,000	\$1,482,500	T
28	I-710 South Corridor Project (Ph 2) ®		FY 2032	FY 2041	gc	\$658,500	\$250,000	\$908,500	H
29	I-5 Corridor Improvements (I-605 to I-710)		FY 2036	FY 2042	gc	\$46,060	\$1,059,000	\$1,105,060	H
30	Crenshaw Northern Extension	i	FY 2041	FY 2047	cc	\$495,000	\$1,185,000	\$1,680,000	T
31	Crenshaw Northern Extension	i	FY 2041	FY 2047	w	\$0	\$560,000	\$560,000	T
32	I-405/I-110 Int. HOV Connect Ramps & Intrchnq Improv ®		FY 2042	FY 2044	sb	\$0	\$250,000	\$250,000	H
33	I-605/I-10 Interchange		FY 2043	FY 2047	sg	\$472,400	\$126,000	\$598,400	H
34	SR 60/I-605 Interchange HOV Direct Connectors		FY 2043	FY 2047	sg	\$360,600	\$130,000	\$490,600	H
35	Lincoln Blvd BRT	l,o	FY 2043	FY 2047	w	\$0	\$102,000	\$102,000	T
36	I-110 Express Lane Ext South to I-405/I-110 Interchange		FY 2044	FY 2046	sb	\$228,500	\$51,500	\$280,000	H
37	I-405 South Bay Curve Improvements		FY 2045	FY 2047	sb	\$250,840	\$150,000	\$400,840	H
38	Green Line Eastern Extension (Norwalk)	p	FY 2046	FY 2052	sc	\$570,000	\$200,000	\$770,000	T
39	SF Valley Transportation Improvements	m	FY 2048	FY 2050	sf	\$0	\$106,800	\$106,800	T
40	Sepulveda Pass Westwood to LAX (Ph 3)	p	FY 2048	FY 2057	sc	\$3,800,000	\$65,000	\$3,865,000	T
41	Orange Line Conversion to Light Rail	p	FY 2051	FY 2057	sf	\$1,067,000	\$362,000	\$1,429,000	T
42	City of San Fernando Bike Master Plan		FY 2052	FY 2054	sf	\$0	\$5,000	\$5,000	H
43	Historic Downtown Streetcar		FY 2053	FY 2057	cc	\$0	\$200,000	\$200,000	T
44	Gold Line Eastside Ext. Second Alignment	p	FY 2053	FY 2057	sc	\$110,000	\$2,890,000	\$3,000,000	T
45	High Desert Multi-Purpose Corridor - LA County Segment	p	FY 2063	FY 2067	sc	\$32,982	\$1,845,718	\$1,878,700	H
46	<b>Expenditure Plan Major Projects Subtotal</b>					<b>\$19,581,027</b>	<b>\$20,989,941</b>	<b>\$40,570,969</b>	



- 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
- Final Design approved in July 2019
- Construction: TBD (Subject to the COVID-19 prioritization decisions)





# SR-71

## Project Summary

- In Final Design phase
- 2 segments:
  - Mission to SR-60 – upgrade from expressway to freeway
  - Mission to I-10 – upgrade including raising 2 bridges over the RR tracks

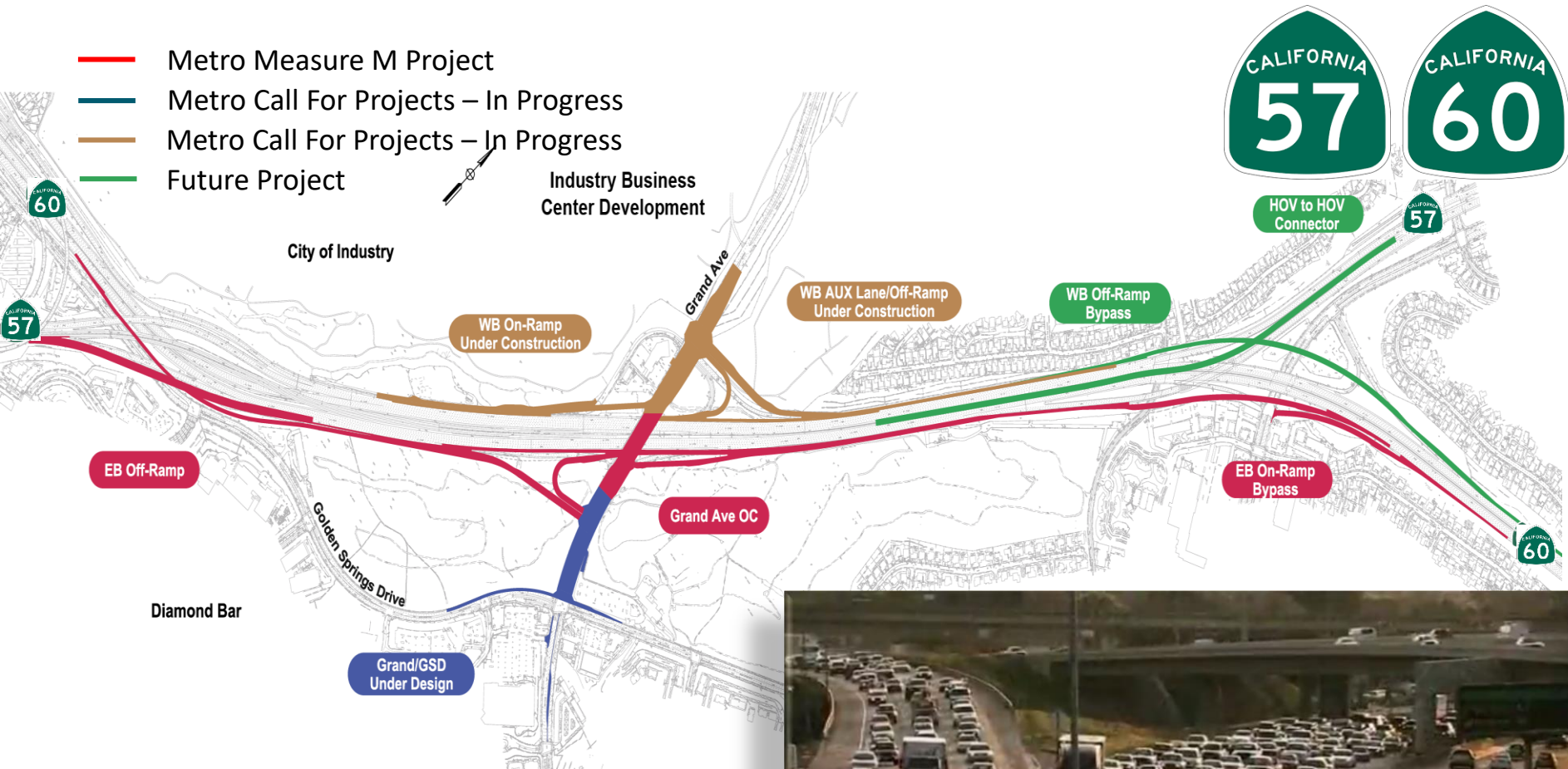
## Status Update

- Construction of Mission to SR-60: Summer 2020
- Construction of Mission to I-10: 2023



# 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



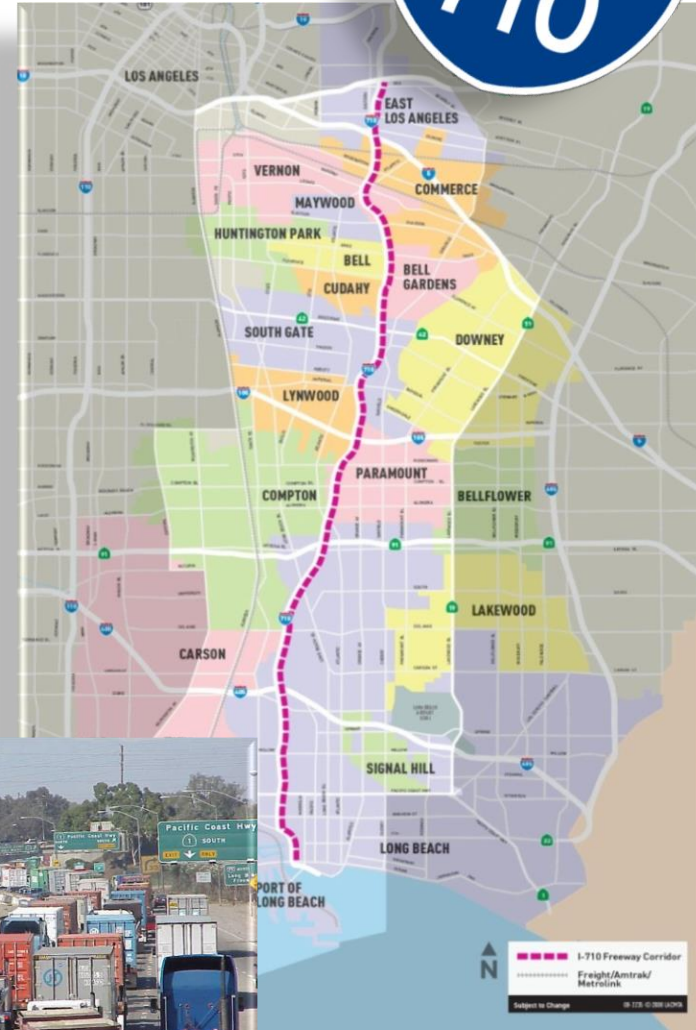


## Project Summary

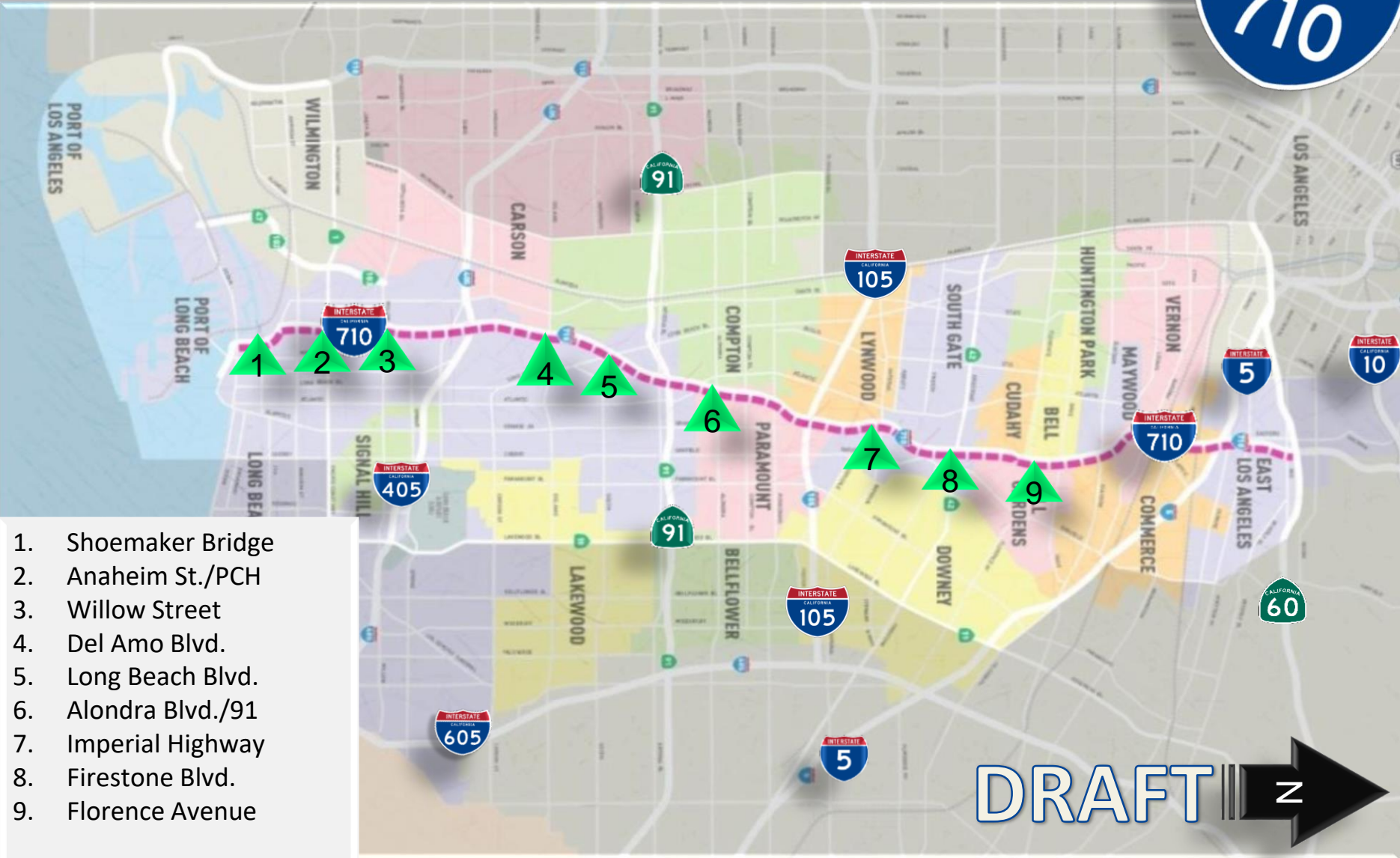
- In PAED phase 18 miles between the Ports of Long Beach and Los Angeles and the SR-60
- Locally-Preferred Alternative Selected:
  - 5C: One lane + upgrading
- Estimated Cost: \$6-\$11 billion
- Includes “Early Action” Projects
- \$420 mil in Measure R and \$500 mil. in Measure M

## Status Update

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



# I-710 Early Action Freeway Projects



- 1. Shoemaker Bridge
- 2. Anaheim St./PCH
- 3. Willow Street
- 4. Del Amo Blvd.
- 5. Long Beach Blvd.
- 6. Alondra Blvd./91
- 7. Imperial Highway
- 8. Firestone Blvd.
- 9. Florence Avenue

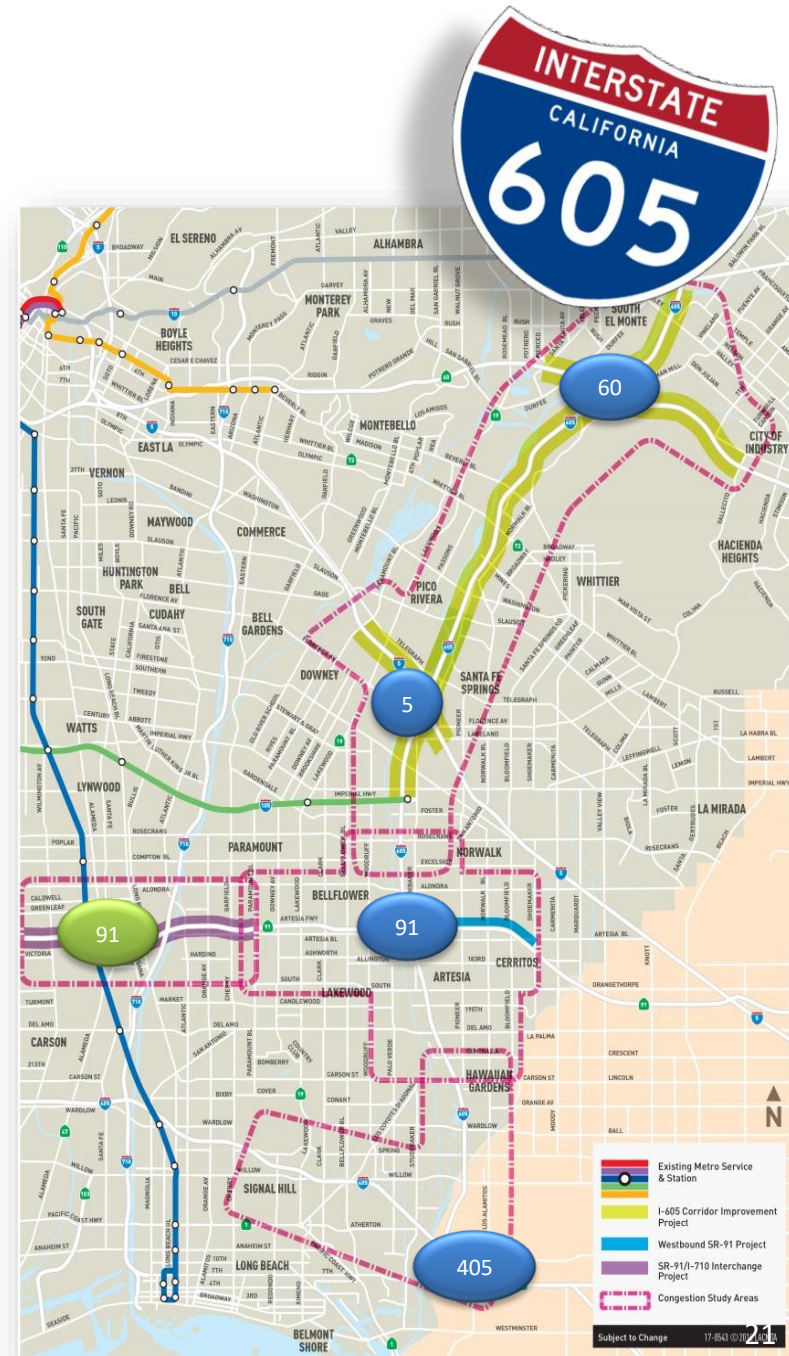


## Project Summary

- 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
- “Early Action” projects - PIDs, environmental clearance, and final design in progress





I-605/Valley Blvd.

SR-60/7th Ave.

I-605/Beverly Blvd.

WB-91 Alondra to Shoemaker

SR-91 Atlantic to Cherry

SR-91 Central to Acacia

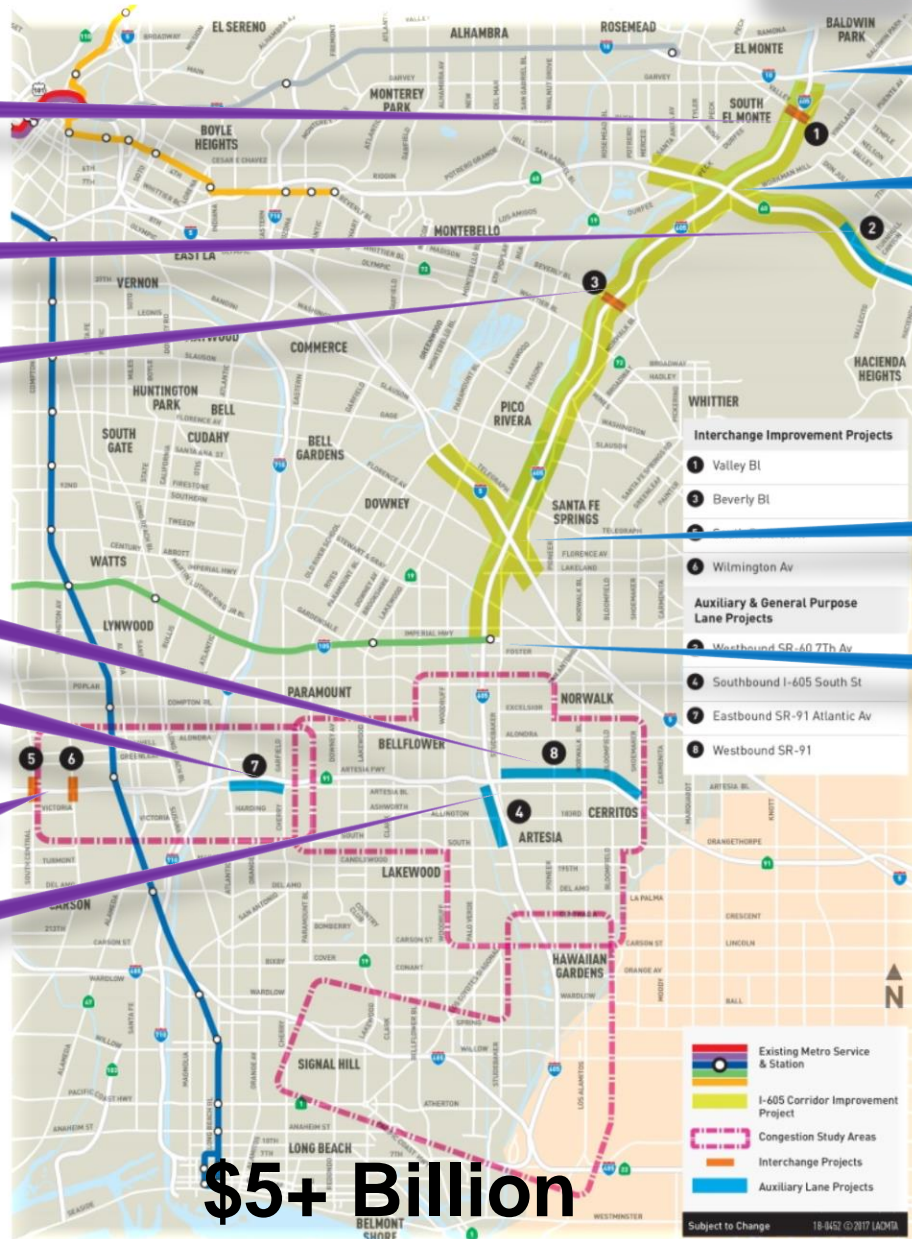
I-605/South St.

I-605/I-10

I-605/SR-60

I-605/I-5

I-605/I-105



+ Over 30 Arterial Intersection Improvements

\$5+ Billion



# I-405 South Bay

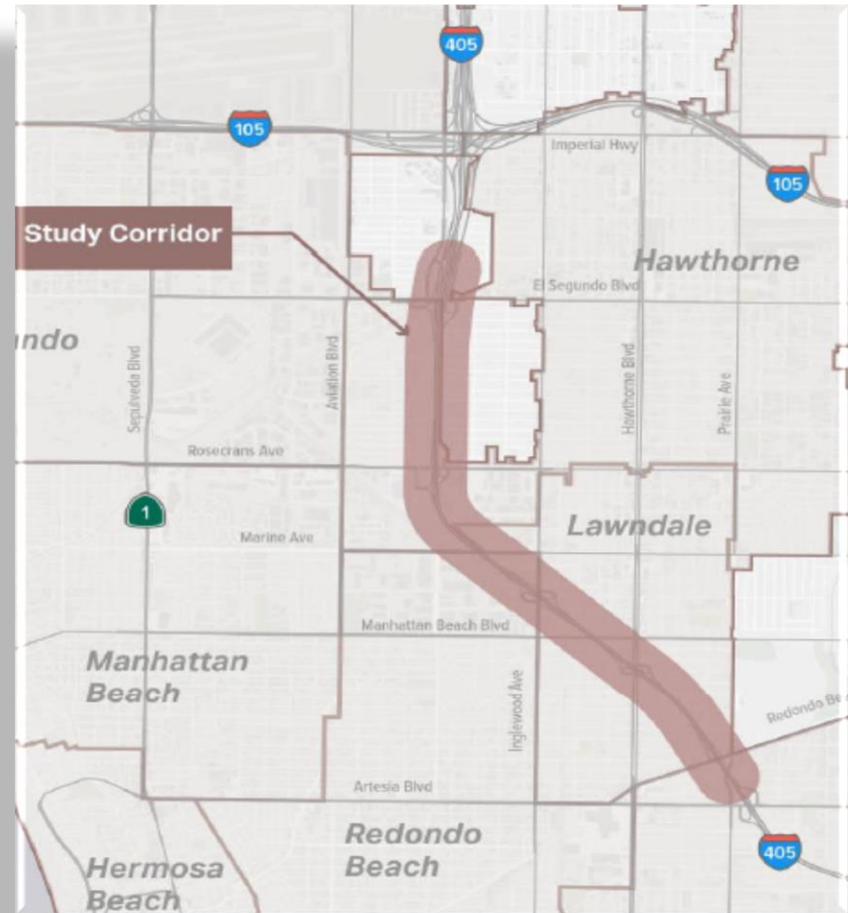


## Project Summary

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

## Status Update

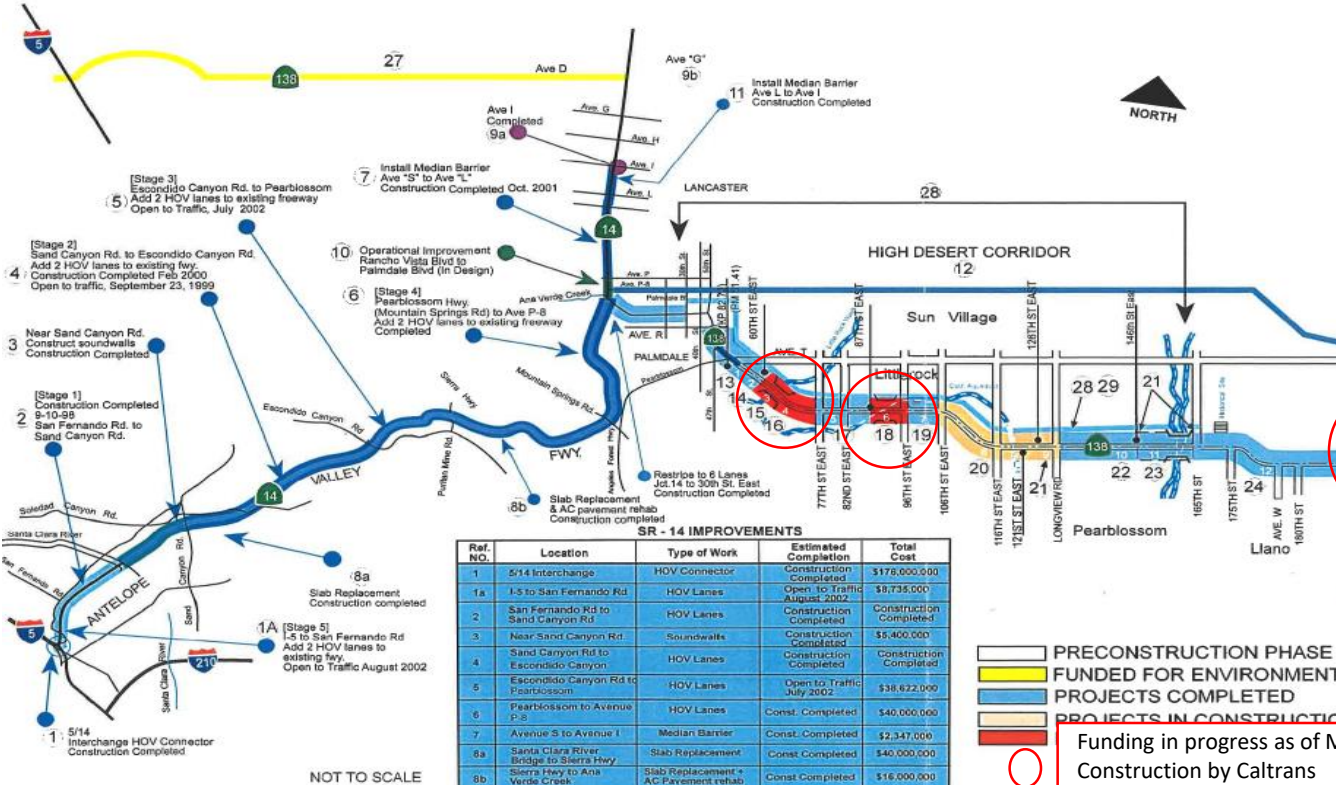
- PSR completed Nov. 2018
- PAED commenced in March 2019
- Construction: TBD



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



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



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-S	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

Ref. NO.	Location	Type of Work	Status	Cost
12	LA-14 to SB-18 High Desert Corridor	Multi-phase	In Progress	\$1,100,000,000
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. Combine Seg. 3 & 4	Widen to 4 lanes	Not funded	\$24,500
16	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 Combine Segs 8&9	Widen to 4 lanes	Fall 2018	\$20,200
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	Jet 18 to SB County Line	Widen roadway and Pave Boulder	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 155th St E	ADA compliance	Winter 2019	\$12,000



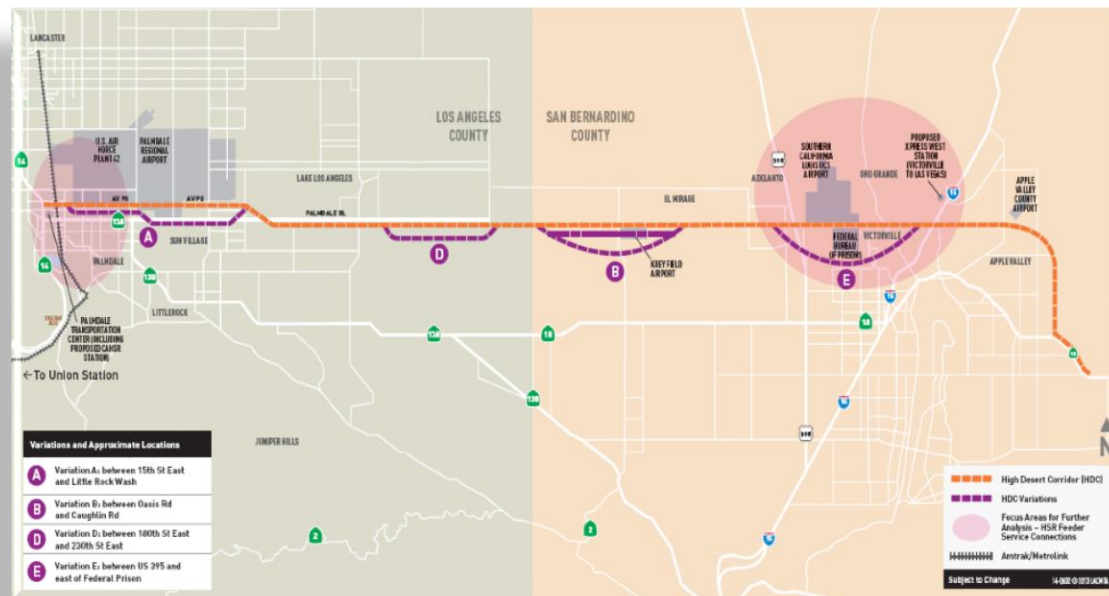


## Project Summary

- 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



# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

South Bay Subregion

Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 50)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	INGLEWOOD	MM5502.02	ITS (GAP) CLOSURE IMPROVEMENTS	CONSTRUCTION	\$6,000,000	\$7,500,000			\$ 13,500,000
2	INGLEWOOD	MM5502.03	INGLEWOOD INTERMODAL TRANSIT/PARK AND RIDE FACILITY **	PAED, PS&E, CONSTRUCTION	\$4,596,541	\$4,596,541			\$9,193,082
3	LA COUNTY	MM5502.04	182ND ST/ ALBERTONI ST. TRAFFIC SIGNAL SYNCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 4,228,500	\$ 4,228,500
4	LA COUNTY	MM5502.07	DEL AMO BLVD (EAST) TRAFFIC SIGNAL SYCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 1,324,500	\$ 1,324,500
5	LA COUNTY	MM5502.06	VAN NESS TRAFFIC SIGNAL SYCH PROGRAM *	PAED, PS&E, CONSTRUCTION				\$ 1,702,000	\$ 1,702,000
6	SBCCOG	MM5502.05	SOUTH BAY FIBER NETWORK	CONSTRUCTION	\$ 4,165,114	\$ 224,251			\$ 4,389,365
7	ROLLING HILLS ESTATES	MM5502.08	PALOS VERDES DRIVE NORTH AT DAPPLEYGRAY SCHOOL	PAED, PS&E, ROW, CONSTRUCTION	\$ 51,300	\$ 63,000	\$ 1,440,000		\$ 1,554,300
8	INGLEWOOD	MM5502.09	PRAIRIE AVE DYNAMIC LANE CONTROL SYSTEM **	PS&E, CONSTRUCTION	\$ 6,560,000	\$ 6,560,000			\$ 13,120,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$21,372,955</b>	<b>\$18,943,792</b>	<b>\$1,440,000</b>	<b>\$7,255,000</b>	<b>\$49,011,747</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

\*\* Final itemized project cost estimate shall be prepared by the City and submitted to Metro for review and approval prior to issuance of a Funding Agreement. Only those costs deemed eligible by Metro will be reimbursed.



# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

**South Bay Subregion**

**Measure M Multi-Year Subregional Plan - Transportation System & Mobility Improvements Program (Expenditure Line 66)**

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	LA CITY	MM5508.01	FIVE SIGNAL MODIFICATION AND OPERATIONAL	PAED, PSE, CONSTRUCTION	230,000	240,000	90,000	2,240,000	2,800,000
2	LA CITY	MM5508.02	ATSAC COMMUNICATION SYSTEM IMPROVEMENT IN SAN PEDRO	PSE, CONSTRUCTION	250,000	750,000	1,500,000		2,500,000
3	LA CITY	MM5508.03	ASTAC COMMUNICATIONS NETWORK INTEGRATION WITH LA COUNTY	PAED, PSE, CONSTRUCTION	40,000	160,000	400,000	1,400,000	2,000,000
4	MANHATTAN BEACH	MM5508.04	ADVANCED TRAFFIC SIGNAL SYSTEM	PSE, CONSTRUCTION	1,100,000	2,540,000	1,800,000		5,440,000
5	REDONDO BEACH	MM5508.05	REDONDO BEACH TRANSITY CENTER AND PARK AND RIDE	CONSTRUCTION	4,000,000	500,000			4,500,000
6	TORRANCE	MM5508.06	TRANSPORTATION MANAGEMENT SYSTEM IMPROVEMENTS	PSE, CONSTRUCTION	30,000	360,000			390,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$5,650,000</b>	<b>\$4,550,000</b>	<b>\$3,790,000</b>	<b>\$3,640,000</b>	<b>\$17,630,000</b>

# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

South Bay Subregion

Measure M Multi-Year Subregional Plan - South Bay Highway Operational Improvements (Expenditure Line 63)

	Agency	Project ID No.	Project/Location	Funding Phases	FY2019-20	FY2020-21	FY 2021-22	FY 2022-23	Total Program
1	HAWTHORNE	MM5507.01	NORTH EAST HAWTHORNE MOBILITY IMPROVEMENT PROJECT	PSE, ROW, CONSTRUCTION	400,000	800,000	950,000	800,000	2,950,000
<b>TOTAL PROGRAMMING AMOUNT</b>					<b>\$ 400,000</b>	<b>\$ 800,000</b>	<b>\$ 950,000</b>	<b>\$ 800,000</b>	<b>\$ 2,950,000</b>



# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

**Las Virgenes/Malibu Subregion**  
**Measure M Multi-Year Subregional Plan - Highway Efficiency Program**

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Agoura Hills	MM5503.01	U.S 101/Palo Comado Interchange - Chesebro Rd S to Driver Ave. & Chesebro Rd to N of interchange	PS&E Construction	\$ 5,393,212	\$ 2,802,224			\$ 8,195,436
2	Agoura Hills	MM5503.02	Kanan Road Corridor from Thousand Oaks Blvd to Cornell Road *	Env PS&E			1,051,879	1,761,614	2,813,493
3	Hidden Hills	MM5503.03	Long Valley Road/Valley Circle/US-101 On-Ramp Improvements	PS&E, ROW Construction	468,006	243,169	249,247	255,230	1,215,652
4	Malibu	MM5503.04	Malibu Park and Ride Lots	ROW	3,100,000				3,100,000
5	Malibu	MM5503.05	Median Improvements PCH	PS&E Construction	150,000	150,000	1,000,000	700,000	2,000,000
6	LA County	MM5503.06	Malibu Canyon Road Improvements - Malibu Canyon Rd @ Piuma Rd. & Las Virgenes Rd @ Las Virgenes Canyon Rd	PS&E ROW Construction	200,000	125,000	700,000	475,000	1,500,000
<b>Total Programming Amount</b>					<b>\$ 9,311,218</b>	<b>\$ 3,320,393</b>	<b>\$ 3,001,126</b>	<b>\$ 3,191,844</b>	<b>\$ 18,824,581</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.

# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

Arroyo Verdugo Subregion  
 Measure M Multi-Year Subregional Plan - Highway Efficiency, Noise Mitigation and Arterial Program

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	South Pasadena	MM5506.01	Columbia St. and Pasadena Ave Turn Lanes, Columbia St. and Orange Grove Ave. Striping	PS&E Construction		\$ 150,000			\$ 150,000
2	South Pasadena	MM5506.02	Garfield Ave. and Monterey Road Signal	PS&E Construction		400,000			400,000
3	South Pasadena	MM5506.03	Garfield Ave. and Oak St. Signal	PS&E Construction		400,000			400,000
4	South Pasadena	MM5506.04	Fremont Ave. and Huntington Dr. Signage *	PS&E Construction				140,000	140,000
5	South Pasadena	MM5506.05	Grevelia St and Fair Oaks Ave. Striping and Signal Timing *	PS&E Construction				50,000	50,000
<b>Total Programming Amount</b>					<b>\$ -</b>	<b>\$ 950,000</b>	<b>\$ -</b>	<b>\$ 190,000</b>	<b>\$ 1,140,000</b>

\* Conditional programming approval as only high level scope of work was developed and reviewed. Future annual update process will reconfirm the programming.



# Measure M - 1<sup>st</sup> 5 Years Subregional Projects

**North County Subregion**  
**Measure M Multi-Year Subregional Plan - Highway Efficiency Program**

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	Palmdale	MM5504.01	SR-138 Palmdale Blvd. SR-14 Ramps	Construction		1,117,074	1,117,073	1,117,073	\$ 3,351,220
2	North County Transportation Coalition	MM5504.02	SR-14 Capacity Enhancement/Operational Improvement **	TBD	500,000	1,500,000	1,350,000	1,350,000	4,700,000
<b>Total Programming Amount</b>					<b>\$ 500,000</b>	<b>\$ 2,617,074</b>	<b>\$ 2,467,073</b>	<b>\$ 2,467,073</b>	<b>\$ 8,051,220</b>

\*\* Pending identification of a specific project after initial investigations and consultation with Caltrans and Metro.

**San Gabriel Subregion**  
**Measure M Multi-Year Subregional Plan - Highway Efficiency Program**

	Agency	Project ID No.	Project/Location	Funding Phases	FY 2018-19	FY2019-20	FY2020-21	FY 2021-22	Total Program
1	SGVCOG (ACE)	MM5505.01	State Route 60 and Lemon Avenue	Construction	\$ 5,273,500				\$ 5,273,500
<b>Total Programming Amount</b>					<b>\$ 5,273,500</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,273,500</b>

