



## Board Report

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### CONSTRUCTION COMMITTEE AUGUST 20, 2020

**SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT**

**ACTION: ORAL REPORT**

#### **RECOMMENDATION**

RECEIVE oral report on the Major Project Status by the Chief Program Management Officer.

#### **DISCUSSION**

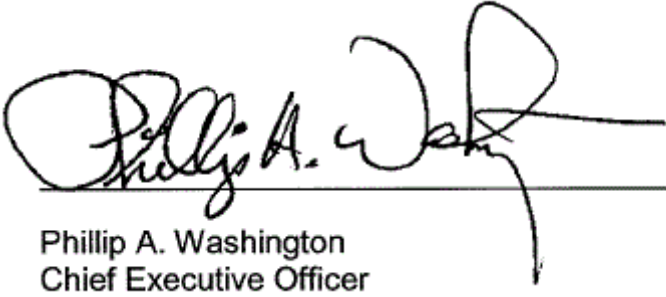
Update report covering the month of August 2020 by the Chief Program Management Officer.

#### **ATTACHMENTS**

Attachment A - Program Management Major Project Status Report

Prepared by:

- **Crenshaw/LAX** - Sameh Ghaly, Sr EO Project Mgmt., (213) 418-3369
- **Regional Connector** - Gary Baker, EO Project Mgmt., (213) 893-7191
- **Westside Purple Line Ext 1** - James Cohen, EO Project Mgmt., (213) 922-7911
- **Westside Purple Line Ext 2** - Michael McKenna, EO Project Mgmt., (213) 312-3132
- **Westside Purple Line Ext 3** - Kimberly Ong, EO Project Mgmt., (323) 903-4112
- **Patsaouras Plaza Busway Station** - Timothy Lindholm, EO Project Engr., (213) 922-7297
- **Willowbrook/Rosa Park Station** - Timothy Lindholm, EO Project Engr., (213) 922-7297
- **I-210 Barrier Replacement** - Androush Danielians, EO Project Engr., (213) 922-7598
- **I-5 North** - Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **I-5 South** - Abdollah Ansari, Sr EO Construction & Engr., (213) 922-4781
- **Presentation** - Yohana Jonathan, Princ. Prog. Mgmt. Analyst, (213) 418-3031



Phillip A. Washington  
Chief Executive Officer

# **Program Management Major Project Status Report**

Presented By

**Richard Clarke**

Chief Program Management Officer

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**August 2020**

**Construction Committee**

Los Angeles County Metropolitan Transportation Authority























# Covid 19 Impacts

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- Construction proceeding as an essential service
- Safety protocols are required and monitored
- Contractors doing well assuring safety of workers and completing work
- Metro tracks reported positive cases with follow-up including cleaning of site, contact tracing and self-quarantine
- We have received some notification of impacts to work
- Each impact claim will be assessed consistent with contract terms (i.e. force majeure)

# PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 95.6% complete. Revised completion to 2021.
Regional Connector			Project is 68% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 63% complete. Differing site conditions and third party requirements are impacting the project budget. Reviewing any impacts differing site conditions and third party requirements may have on the project schedule.
Westside Purple Line Extension-Section 2			Project is 33% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Project is 13% complete and proceeding on schedule and within budget.
Patsaouras Plaza			Project is 85% complete and Substantial Completion is anticipated to be delayed to late Summer 2020 due to recent archaeological discovery, data recovery, and IT/Communication equipment assembly and delivery delays.
Willowbrook/Rosa Parks Station			Blue Line Platform and Mezzanine Finishes and Vertical Circulation work ongoing while station is in operation. Customer Center, Mobility Hub + Public Plaza and promenade are substantially complete. Package B early work start delayed until late May. UPRR pedestrian grade crossing delayed but scheduled for July 2020. Station planned to open in phases with opening dates coinciding with pandemic guidance.
I-210 Barrier Replacement			Project 1 Project Report has been approved by Caltrans. We are working toward Project 1 Final PS&E Package approval anticipated by August 2020. Metro and Caltrans have clearly identified the best path forward to keep the disruption to freeway traffic and Metro operations to a minimum for Project 2; it involves seeking a design variance from Caltrans. Development of the Project 2 PSR-PR is underway.
I-5 North: SR 118 to SR 134			Segment 1 and 2 are completed. Segment 3 (Empire Ave & Burbank) is 83% complete. Segment 4 (Magnolia to SR-134) is 96% complete and began the plant establishment phase on June 1, 2020.
I-5 South: Orange County Line to I-605			Segments 1, 3, and the Carmenita Interchange are completed. Segment 2 (Valley View) is 64% complete. Segment 4 (Imperial) is 97% complete and began the plant establishment phase on Jan 31, 2020. Segment 5 (Florence) is 89% complete.

August 2020

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On target



Possible problem



Significant Impact



Metro 3

# 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	May 2021*

- Overall Project Progress is 95.6% complete.
- Contractor continues remaining facility and systems installation
- Continuing critical system equipment testing and system integration testing.



Testing crossing gates with train at Arbor Vitae Street



Installing roofing deck to main entrance canopy at MLK Jr. Station.

August 2020



On target



Possible problem



Significant Impact



Metro 4

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\*Substantial Completion: Winter 2020

# REGIONAL CONNECTOR TRANSIT PROJECT

**OK BUDGET**

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

**OK SCHEDULE**

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

- Overall Project Progress is 68% complete.
- Little Tokyo/Arts District Station & Surrounding Area:** Continue street backfill at Wye and 1st/Alameda; began pre-bus bridge excavation and installation of support of excavation within the Mangrove Yard.
- Historic Broadway Station:** Structural concrete, MEP and systems continues within the Station, Cavern and Entrance.
- Grand Av Arts/Bunker Hill Station:** Structural concrete, MEP and systems installation continues throughout the Station; began installation of pre-cast floating slab segments within the station box area.
- Flower Street:** Installation of exterior and interior walls and roof completed in north; continuing concrete work in south; continued structure backfill.
- Track:** Continue installation of Low Vibration Track (LVT) and pre-cast floating slab.



Roof deck shoring installation at Historic Broadway Station



Installing rebar at roof level interior wall at Grand Av Arts/Bunker Hill Station

August 2020



On target



Possible problem



Significant Impact

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Metro 5



# WESTSIDE PURPLE LINE EXTENSION – SECTION 1

## BUDGET

	<u>Current</u>	<u>Forecast</u>
<b>TOTAL COST*</b>	<b>\$3,154M</b>	<b>\$3,154M</b>

\* Includes Board approved LOP budget plus finance costs.

## SCHEDULE

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

- Overall Project Progress is 63% complete.
- Wilshire/Western Retrieval Shaft:** Continued support of Reach 1 cross passage construction. Break through into Wilshire/Western Station is underway.
- Wilshire/La Brea Station:** Station structure concrete work continues including 2<sup>nd</sup> lift exterior walls and concrete roof placement . Appendage structure work at Wilshire/Orange is scheduled to commence in September 2020.
- Wilshire/Fairfax Station:** Entrance plaza structure and appendage work continue. Preparation for concourse concrete activities are underway.
- Wilshire/La Cienega Station:** Level 1 wall concrete placement was completed on June 26, 2020. The first 2<sup>nd</sup> lift wall concrete placement has started.
- Tunneling:** As of July 6, 2020, the Purple TBM (Elsie) has mined 1,284 feet (39% complete) of the Reach 3 tunnel. Reach 3 launch for the Red TBM (Soyeon) is scheduled for July 10, 2020.
- Reach 1 Tunnel Cross Passages (CP):** 5 out of 12 cross passages have been excavated. HDPE, rebar installation and concrete placement continue at various cross passages. Completion is anticipated in November 2020.
- Differing site conditions and third party requirements are impacting the project budget. Reviewing any impacts differing site conditions and third party requirements may have on the project schedule.



Wilshire/Fairfax Station Concourse Shoring



Wilshire/La Brea Station Arched Roof

August 2020



On target



Possible problem



Significant Impact

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Metro 6



# WESTSIDE PURPLE LINE EXTENSION – SECTION 2



## BUDGET

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

\* Includes Board approved LOP budget plus finance costs.



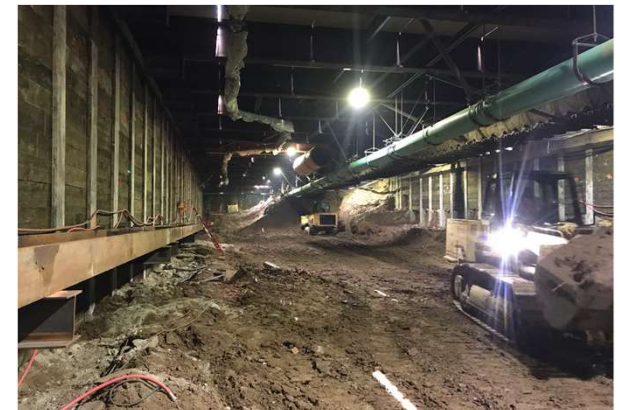
## SCHEDULE

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

- Overall Project progress is 33% complete.
- **Century City Constellation Station**
  - Assembly of the BR TBM “Harriet” is ongoing. Start-up is anticipated at the end of July 2020.
  - Tunnel access shaft excavation is 80% complete.
  - Coordination with CalGEM and BHUSD for the abandonment of two legacy oil wells found in the path of the BR TBM “Harriet” under the Beverly Hills High School campus is ongoing.
- **Tunneling**
  - Excavation of the BL tunnel (Reach 5) began on April 30, 2020 and as of July 10, 2020, the BL TBM “Ruth” has excavated 265 feet with 48 tunnel rings erected. Excavation is currently paused until the tunnel access shaft has been completed.
- **Wilshire/Rodeo Station**
  - Installation of the temporary street decking over the future station box excavation began on May 5, 2020 and was completed on June 6, 2020.
  - Wilshire Boulevard reopened to traffic on June 15, 2020.
  - Excavation of the station box and entrance has begun and is ongoing.



BL Tunnel at the Launch Box in Century City



Excavation of the Station Box in Beverly Hills

August 2020



On target



Possible problem



Major issue

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Metro 7

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3

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

\* Includes Board approved LOP budget plus finance costs.

OK SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	2028 (FFGA)	2027

- Overall Project progress is 13% complete
- Final design progress is 61% complete
- **C1151 Tunnel Contract**
  - TBM launch shaft excavation is ongoing and is 75% complete.
  - Instrumentation & monitoring equipment is being installed along the tunnel alignment.
  - SCE duct bank that will provide TBM power is 99% complete.
  - Dewatering at the TBM launch shaft continues with SCE temporary power.
  - Commissioning and permitting of compressed air plant and grout plant are in process.
- **C1152 Stations, Trackwork and Systems Contract**
  - Final design is ongoing.
  - Pre-construction surveys of adjacent properties are ongoing.
  - Installation of the sound wall at Westwood/UCLA Station site began.
- **Other Third Party Utility Relocation Work**
  - Joint trench activities for combining Verizon and Frontier telecommunications are ongoing. Conduits and vaults installed. Cable pulling/splicing ongoing.



TBM Components at VA Staging Yard



TBM Launch Shaft Excavation

August 2020



On target



Possible problem



Significant Impact

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Metro 8

# PATSAOURAS BUS PLAZA STATION

 BUDGET		
TOTAL COST	<u>Current</u> \$50.9M	<u>Forecast</u> \$50.9M

 SCHEDULE		
SUBSTANTIAL COMPLETION	<u>Current</u> Spring 2020	<u>Forecast</u> Summer 2020

- Overall project progress remains at approximately 85% complete.
- Substantial Completion delayed to late Summer 2020 due to:
  - Caltrans storm drain and median barrier work on-hold until Archaeological Data Recovery concludes.
  - Assembly and delivery of critical IT/Communications equipment has been delayed.
- Canopy Column completion pending resolution of corrosion protection issues.



Archaeological Data Recovery Begins at Storm Drain

August 2020



On target



Possible problem



Significant Impact

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Metro 9



# WILLOWBROOK/ROSA PARKS STATION



## BUDGET

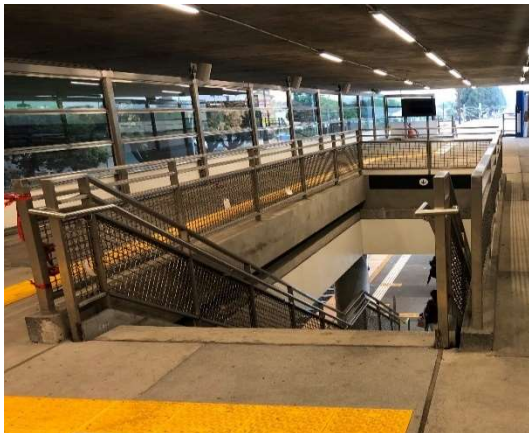
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$128.4M	\$128.4M



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Summer 2020	March 2021

- Package A: Customer Center, Mobility Hub and Public Plaza are substantially complete. Promenade remains at 95% completion due to delay in materials. Southern pedestrian crossing completion on hold until UPRR completes their portion of the crossing (currently July 2020).
- Package C: Finishes, Systems (Variable Message Sign, TAP) and Vertical Circulation work ongoing while Station is in Operations. North end of mezzanine and stair to C Line platform construction near completion.
- Package B: Early work for Package B planned start is late May 2020. Due to delay in UPRR crossing work, bus operations to remain in current location, causing delay for Package B Work. Will report on current schedule after actual completion of UPRR work. Station can open in phases as soon as August 2020 but dates will coincide with return to work.



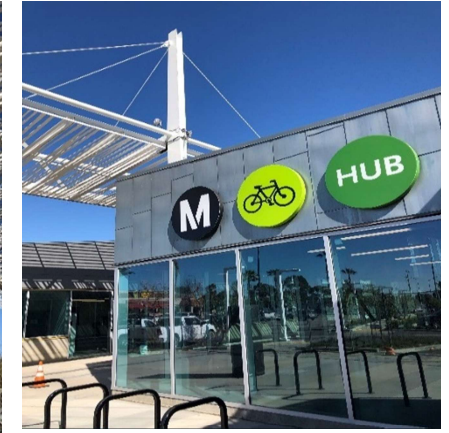
Blue Line Mezzanine open to the public



Mobility Hub Interior



Customer Center and Mobility Hub substantially complete



August 2020



On target



Possible problem



Significant Impact

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Metro 10

# I-210 BARRIER REPLACEMENT PROJECT

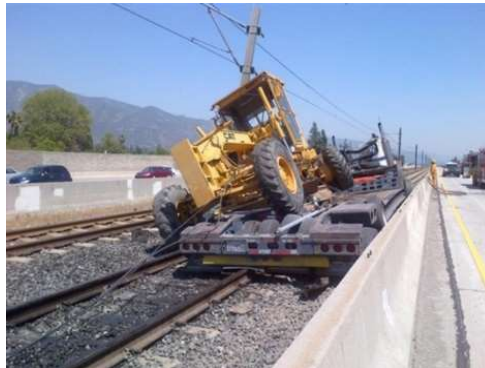
OK BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$22.54M	\$22.54M
	Design	Design

OK SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
Complete Design (Proj 1)	Aug 2020	Summer 2020
Complete Design (Proj 2)	Aug 2021	Summer 2021

- Project 1: Segment from Michillinda to Iconic Bridge – Project 1 Project Report has been approved by Caltrans. Final PS&E Package is under review. Metro anticipates Caltrans approval in August 2020.
- Project 2: Segment from west end of the project to Michillinda – Development of Project Report for Project 2 is underway.
- Project 2: Metro and Caltrans have agreed on the best path forward to keep the disruption to freeway traffic and Metro operations to a minimum for Project 2. However, this approach will require Metro to obtain a design variance from Caltrans.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

August 2020



On target



Possible problem



Significant Impact

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Metro 11

# I-5 Construction Projects (By Caltrans)



August 2020  
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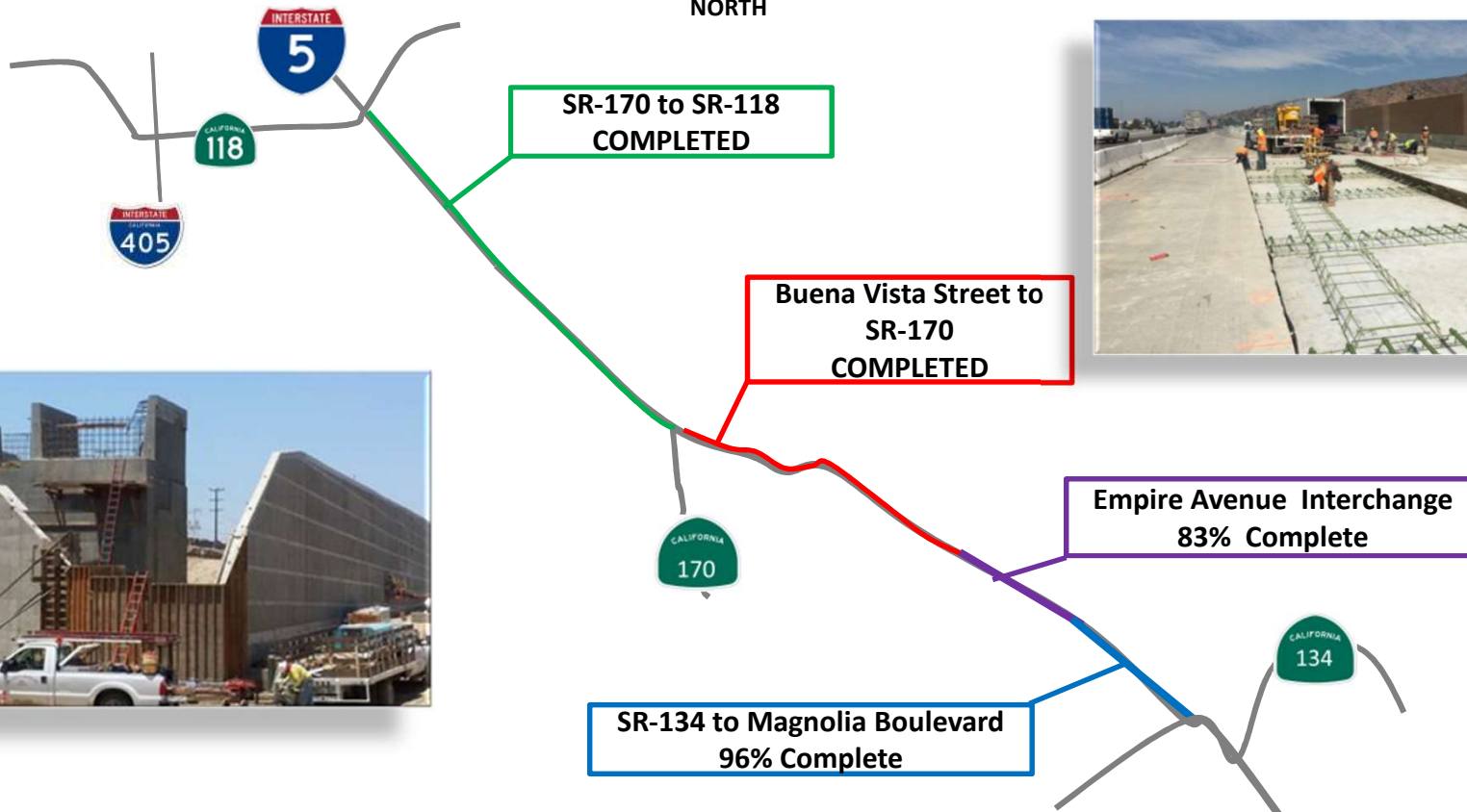


# I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current	Forecast
	\$880.9M	\$930.9M*

⚠ SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast*
	Summer 2022	Winter 2022



August 2020



On target



Possible problem



Significant Impact

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Metro 13

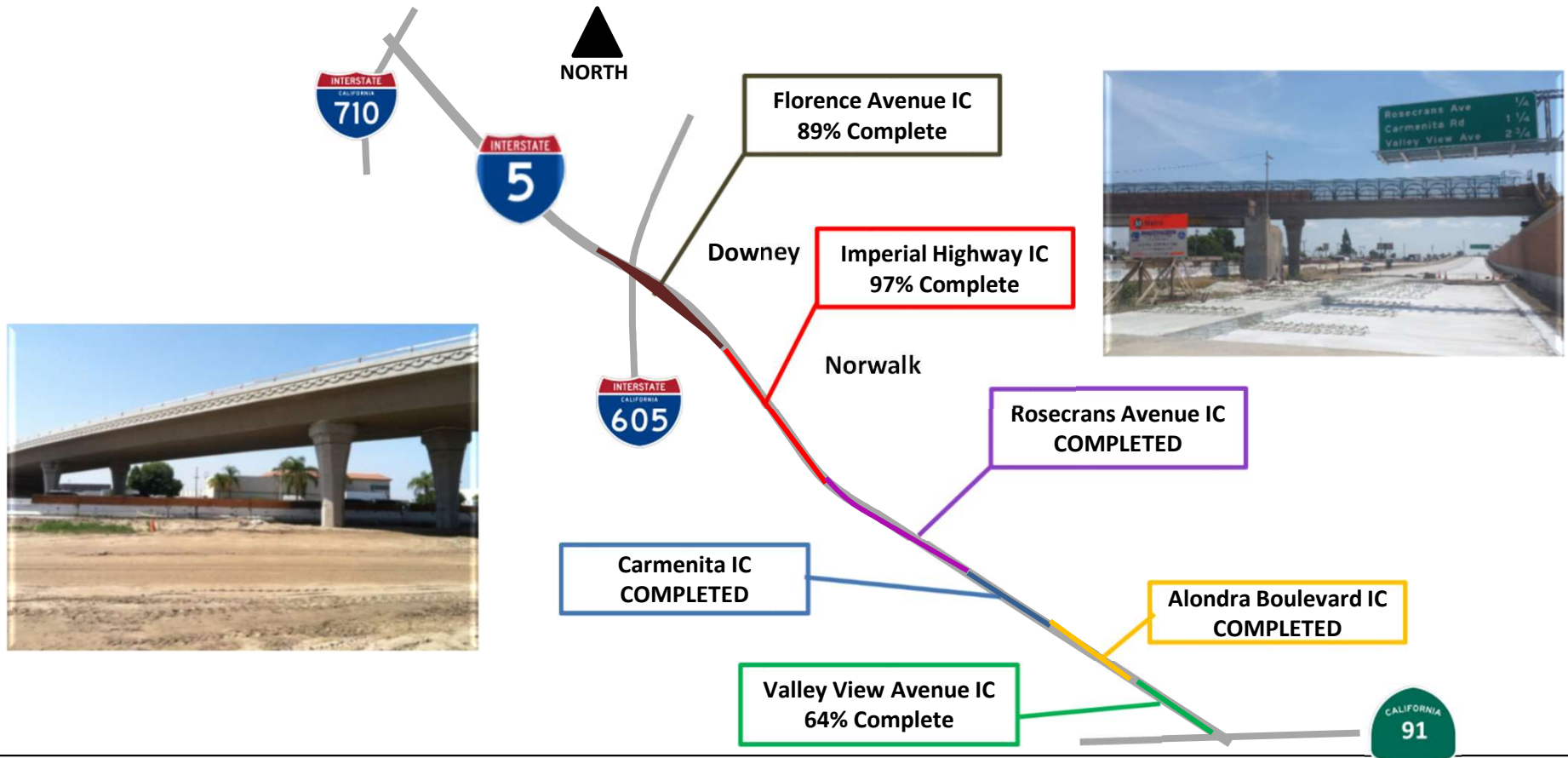
\* Risk Analysis, May 2020

# I-5 SOUTH: ORANGE COUNTY LINE TO I-605



OK BUDGET		
	Current	Forecast
TOTAL COST	\$1.888B	\$1.888B*

◇ SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast*
	Fall 2022	Winter 2022



August 2020

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On target



Possible problem



Significant Impact



Metro 14

\* Risk Analysis, May 2020