



## Board Report

File #: 2020-0063, File Type: Oral Report / Presentation

Agenda Number: 27.

### CONSTRUCTION COMMITTEE FEBRUARY 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**

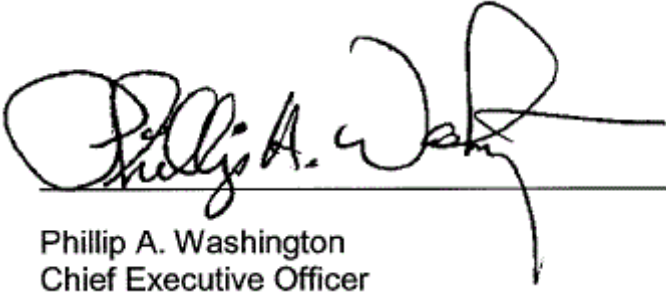
Update report covering the month of February 2020 by the Chief Program Management Officer.

#### **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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February 2020

Construction Committee

Los Angeles County Metropolitan Transportation Authority



# PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 94% complete. Contractor needs to recover schedule. The forecast revenue service date is Summer/Fall 2020.
Regional Connector			Project is 62% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 56% complete and proceeding on schedule. Differing site conditions and third party requirements are impacting the project budget.
Westside Purple Line Extension-Section 2			Project is 25% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Project is 6% complete and proceeding on schedule and within budget.
Patsaouras Plaza			Project is 84% complete. Archaeological and Native American monitoring completed for Austin Vault excavation. Concrete has been poured for the pedestrian walkway and overcrossing, and rebar has been completed for station and elevator platform. Pedestrian walkway overhead decking in progress.
Willowbrook/Rosa Parks Station			Blue Line Platform and Mezzanine opened for public service. Finishes and Vertical Circulation work ongoing. Customer Center is substantially complete. Mobility Hub + Public Plaza and promenade at 95% completion. Package B 100% bid package has been forwarded to Contractor for pricing with expected NTP in February.
I-210 Barrier Replacement			Design team looking to see if 8 minute headways are possible while single tracking occurs on Gold Line (for Projects 1 and 2). Expecting to submit Project 1 Project Report for approval by the end of January and submit Project 1 100% Design Package for approval by end of February 2020.
I-5 North: SR 118 to SR 134			Segment 1 and 2 are completed. Segment 3 (Empire Ave & Burbank) is 76% complete. Segment 4 (Magnolia to SR-134) is 94% complete.
I-5 South: Orange County Line to I-605			Segments 1 and 3 and the Carmenita Interchange are completed. Segment 2 (Valley View) is 55% complete. Segment 4 (Imperial) is 96% complete. Segment 5 (Florence) is 85% complete.

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On target



Possible problem




Major issue



Metro 2

# CRENSHAW/LAX TRANSIT PROJECT

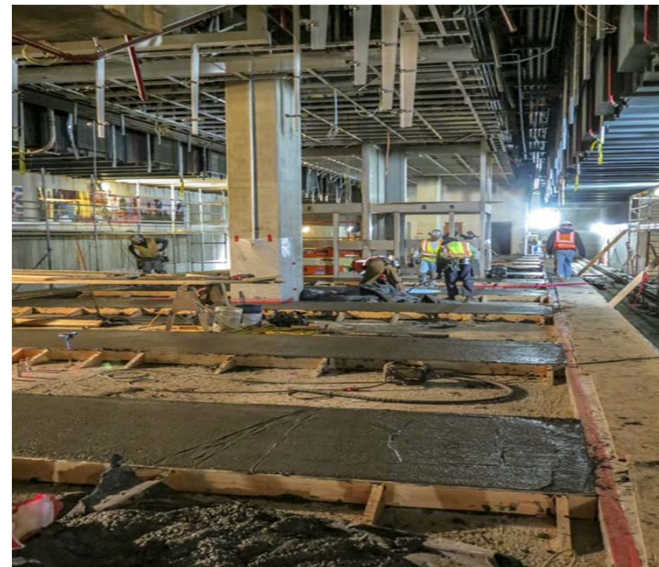
 <b>BUDGET</b>		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$2,058M	\$2,058M

 <b>SCHEDULE</b>		
	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	Summer/Fall 2020	Summer/Fall 2020

- Overall Project Progress is 94% complete; contractor needs to recover schedule.
- Contractor continues remaining facility and systems installation and testing efforts. Integrated testing being performed up to Hindry Ave.
- Critical path is completion of the traction power substations, system equipment installation, conduit/wire installation, testing, and system integration testing.



EXPO/CRENSHAW STATION – Canopy over main station entrance



EXPO/CRENSHAW STATION – platform concrete architectural topping slab

February 2020



On target



Possible problem



Major issue

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Metro 3

# REGIONAL CONNECTOR TRANSIT PROJECT

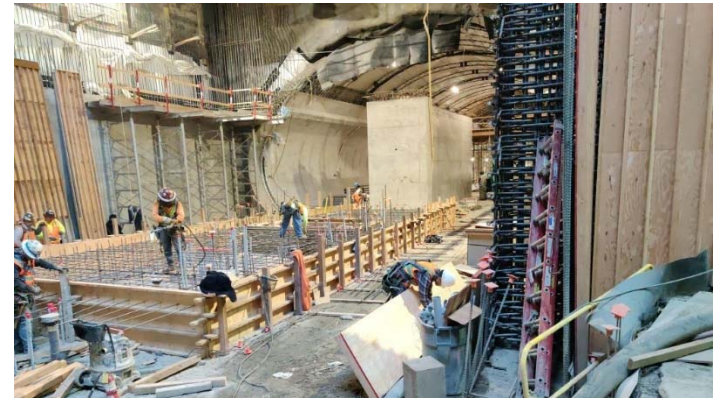
**OK BUDGET**

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$1,810M	\$1,810M

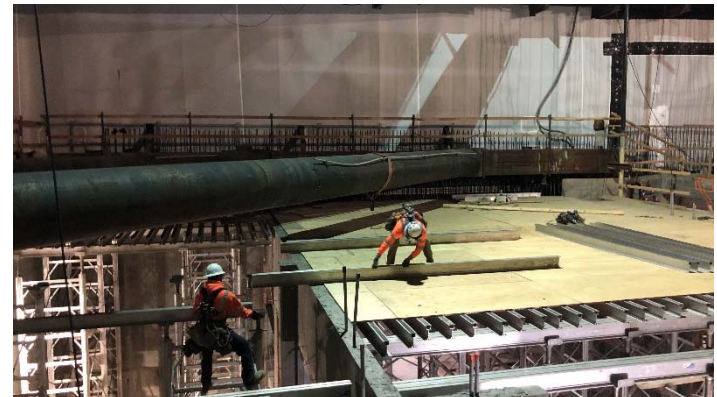
**OK SCHEDULE**

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

- Overall Project Progress is 62% complete.
- Little Tokyo/Arts District Station, WYE and 1st Street:** Street Restoration has begun utilizing partial street closures.
- Historic Broadway Station:** Structural concrete continues within the Station, Entrance and Cross-over Cavern.
- Grand Av Arts/Bunker Hill Station:** Structural concrete walls and slabs continue to be erected at multiple levels throughout the station.
- Flower Street:** Continue installation of exterior and interior walls; roof placements underway.
- Track:** Floating Slab installation continues and rail delivery has commenced in preparation for assembly and placement.



Platform forms and rebar installation at Historic Broadway Station



Decking installation at Grand Av Arts/Bunker Hill Station

February 2020



On target



Possible problem



Major issue

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Metro 4

# WESTSIDE PURPLE LINE EXTENSION – SECTION 1

## ◆ BUDGET

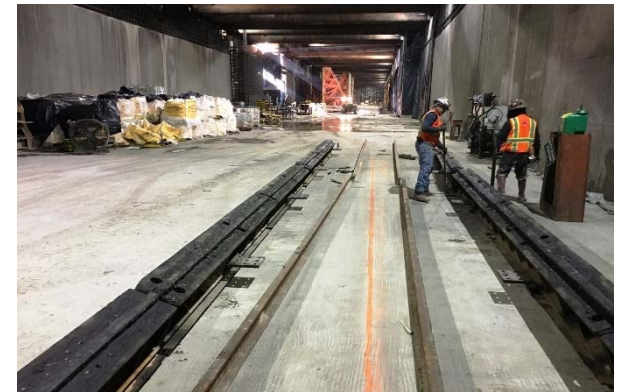
	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,154M	\$3,154M

\* Includes Board approved LOP budget plus finance costs.

## OK SCHEDULE

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

- Overall Project Progress is 56% complete.
- Wilshire/Western Retrieval Shaft:** Supporting Reach 1 cross passage construction.
- Wilshire/La Brea Station:** Concrete placement for the exterior wall at the east hammerhead was completed on January 7, 2020; Infill slab preparation work continues. Assembly of roof forms moves forward; 2<sup>nd</sup> lift exterior wall concrete placement continuing.
- Wilshire/Fairfax Station:** On January 7, 2020, excavation at the entrance appendage commenced; Preparations for Tunnel Boring Machine (TBM) acceptance at the station continues with tunnel eye, TBM cradle and temporary rail installation.
- Wilshire/La Cienega Station:** Station invert concrete placement continues. Rebar installation for the 1<sup>st</sup> lift walls is scheduled to start in February 2020.
- Tunneling:** Reach 2 Tunneling as of January 9, 2020 - Purple TBM (Elsie): 2,278 feet mined (51% complete); Red TBM (Soyeon): 1,042 feet mined (24% complete)
- Cross Passages (CP):** Excavation at cross passage #10 commenced on January 6, 2020.
- Differing site conditions and third party requirements are impacting the project budget.



Installing Temporary Rail at Wilshire/Fairfax Station



Excavation at Cross Passage 10

February 2020



On target



Possible problem



Major issue

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Metro 5

# WESTSIDE PURPLE LINE EXTENSION – SECTION 2

<b>OK</b>	<b>BUDGET</b>	
	<u>Current</u>	<u>Forecast</u>
<b>TOTAL COST*</b>	<b>\$2,530M</b>	<b>\$2,530M</b>
<small>* Includes Board approved LOP budget plus finance costs.</small>		

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

- Overall Project progress is 25% complete.
- Final design progress is 97% complete.
- **Century City Constellation**
  - A motion for prejudgment possession for the subsurface easement under Beverly Hills High School was granted in Los Angeles Superior Court on December 19, 2019.
  - Preparation for Tunnel Boring Machine (TBM) assembly started in January 2020.
  - A request for a seven-month extension of the full street closure of Constellation Blvd (in the vicinity of the TBM Launch Box) was approved by the Board of Public Works on December 16, 2019.
  - LADWP cable pulling and splicing is anticipated to be completed prior to the start of piling activities west of the TBM Launch Box.
- **Wilshire/Rodeo**
  - Remobilization for the piling of the station excavation began after the Holiday Moratorium on January 2, 2020.
  - Piling activities are forecasted to continue through July 2020.



Tunnel Eyes at the TBM Launch Box in Century City



Remobilization in Beverly Hills

February 2020



On target



Possible problem



Major issue

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Metro 6



# WESTSIDE PURPLE LINE EXTENSION – SECTION 3



## BUDGET

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

\* Includes Board approved LOP budget plus finance costs.



## SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE	TBD	2027
OPERATION		

- Overall Project progress is 6% complete
- Final design progress is 35% complete
- **C1151 Tunnel Contract**
  - So. California Edison ductbank construction for TBM power continues.
  - Site development of the Tail Track Exit Shaft Area ongoing.
  - Veterans Administration (VA) Property Access Agreement executed on January 8, 2020.
  - Surface and subsurface easement acquisitions continue.
- **C1152 Stations, Trackwork and Systems Contract**
  - Station easement acquisitions continue.
  - Geotechnical drilling at the VA site completed in January 2020.
  - Geotechnical drilling started in Wilshire Blvd. at Bonsall Ave.
- **Other Third Party Utility Relocation Work**
  - Joint trench activities for combining Verizon and Frontier telecommunications are ongoing.
  - Southern California Gas, Sempra Energy, and LADWP (Power) relocations are ongoing at Westwood/UCLA Station.



Tree Removal at VA Site



SCG Modified Traffic Control Along Ohio Ave.

February 2020



On target



Possible problem



Major issue

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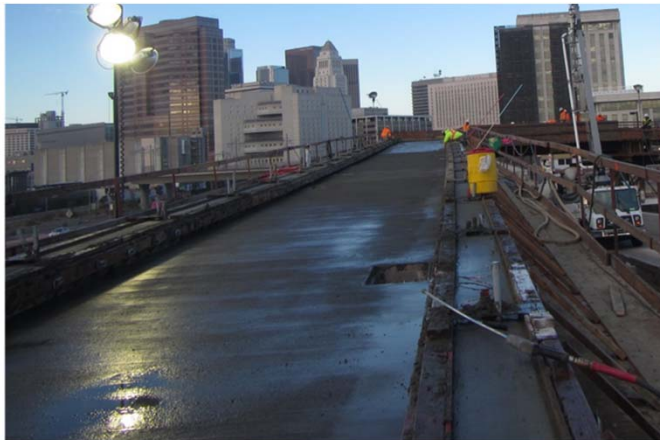
Metro 7

# PATSAOURAS BUS PLAZA STATION

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

<b>OK</b> SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Spring 2020	Spring 2020

- Overall project progress at approximately 84% complete.
- Archaeological and Native American monitoring will continue with the completion of the drainage system at the median.
- Austin Vault excavation completed.
- Pedestrian walkway columns completed and decking initiated.
- Canopy columns set for bus platform concrete pour.



Pedestrian walkway and overcrossing poured

February 2020



On target



Possible problem



Major issue

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Metro 8

# WILLOWBROOK/ROSA PARKS STATION

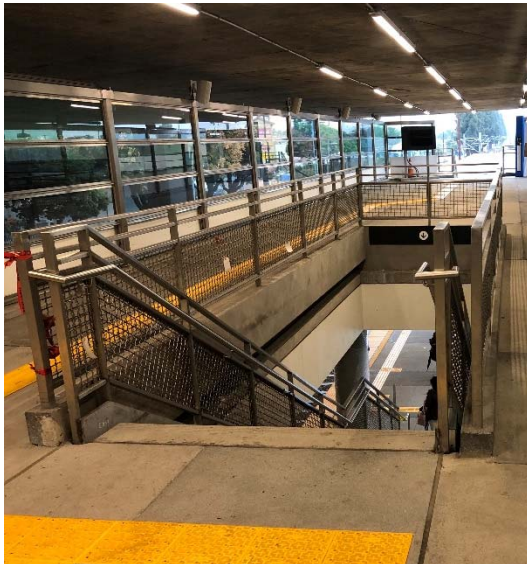
## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$109.3M	\$109.3M

## SCHEDULE

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

- Package A: Customer Center substantially complete and fully furnished. Mobility Hub, Public Plaza and Promenade at 95% completion. Punch walks held in January.
- Package C: Blue Line platform and mezzanine in operation. Finish, Systems (Variable Message Sign, TAP) and Vertical Circulation work ongoing. Southern pedestrian crossing in coordination with Union Pacific Rail Road.
- Package B: Documents forwarded to Contractor for pricing. Notice To Proceed scheduled for February.



Blue Line Mezzanine open to the public



Rosa Parks Customer Center



Mobility Hub and Plaza near completion

February 2020



On target



Possible problem



Major issue

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Metro 9

# I-210 BARRIER REPLACEMENT PROJECT

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

! SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
Complete Design (Proj 1)	Feb 2020	Winter 2020
Complete Design (Proj 2)	Feb 2021	Summer 2022

- Project 1: Segment from Michillinda to Iconic Bridge – Caltrans has provided comments on the Project Report and the 95% submittal. Those comments are being addressed in the 100% Design Package. The 100% Design Package will be submitted by the end of February.
- Project 2: Segment from west end of the project to Michillinda – Development of alternative barrier system to avoid freeway lane closure for Project 2 is underway.
- Projects 1 & 2: Design Team investigating headways and operational impact while single tracking occurs during construction on Gold Line. May require additional track cross-overs to maintain 8-min headways.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

February 2020



On target



Possible problem



Major issue

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Metro 10

# I-5 Construction Projects (By Caltrans)



February 2020

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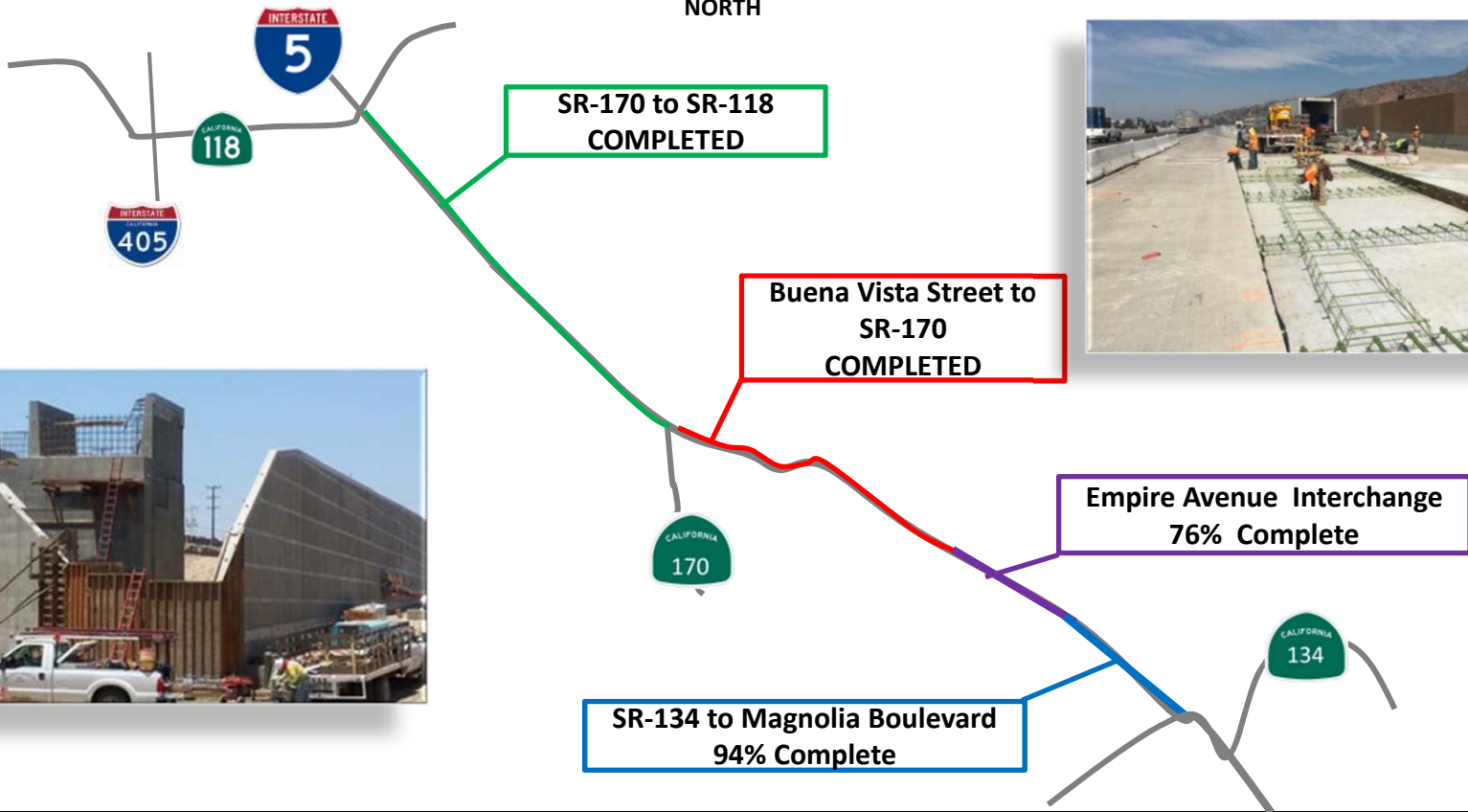
Metro 11

# I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current	Forecast
	\$880.9M	\$913.0M*

🟡 SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast
	Spring 2022	Summer 2022



February 2020



On target



Possible problem



Major issue

\*

Risk Analysis, Nov 2019



Metro 12

Construction Committee

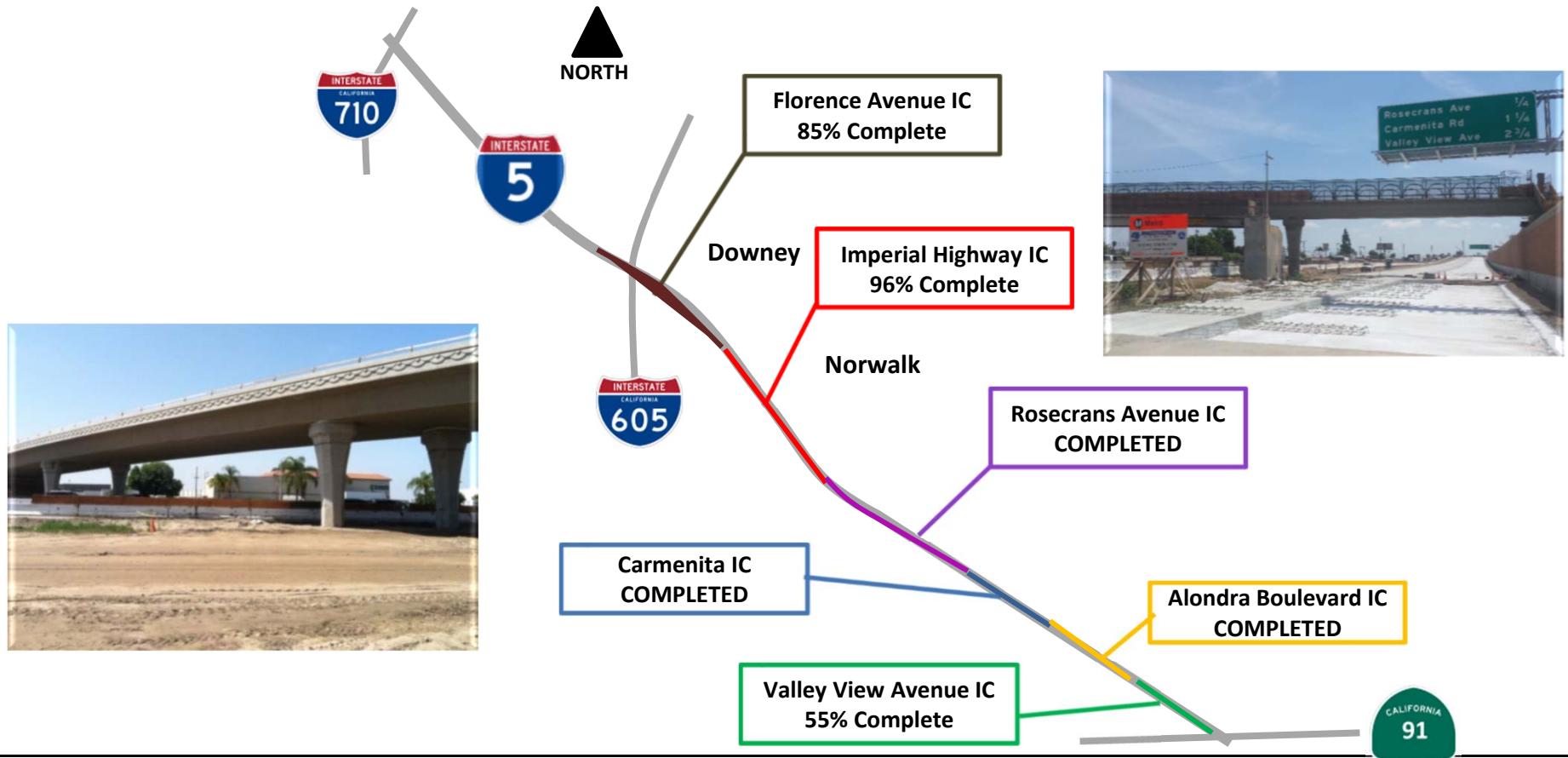
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# I-5 SOUTH: ORANGE COUNTY LINE TO I-605



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

◇ SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast
	Fall 2022	Winter 2022



February 2020

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On target



Possible problem



Major issue



Risk Analysis, Nov 2019

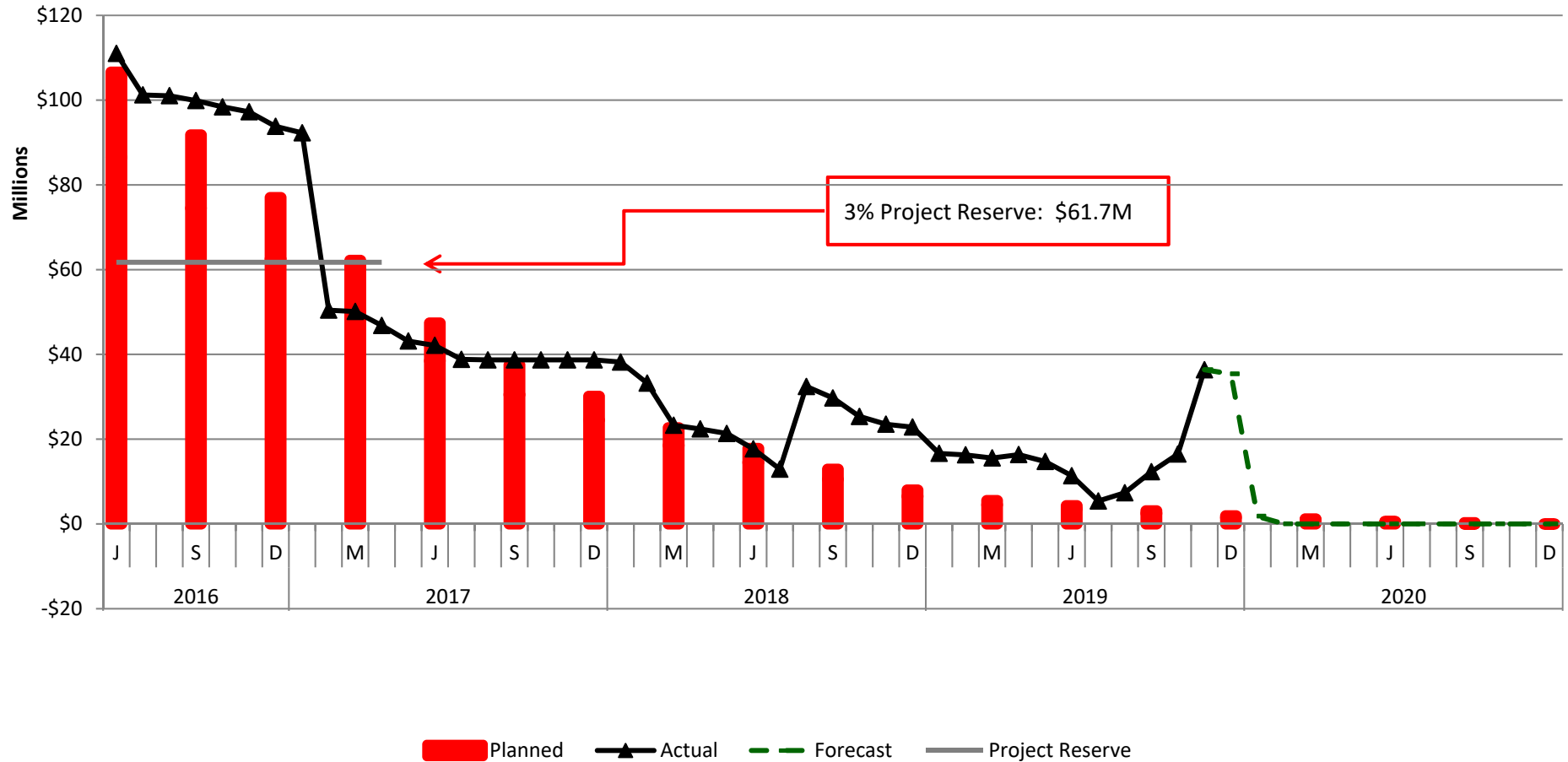


Metro 13

# Crenshaw/LAX Transit Project

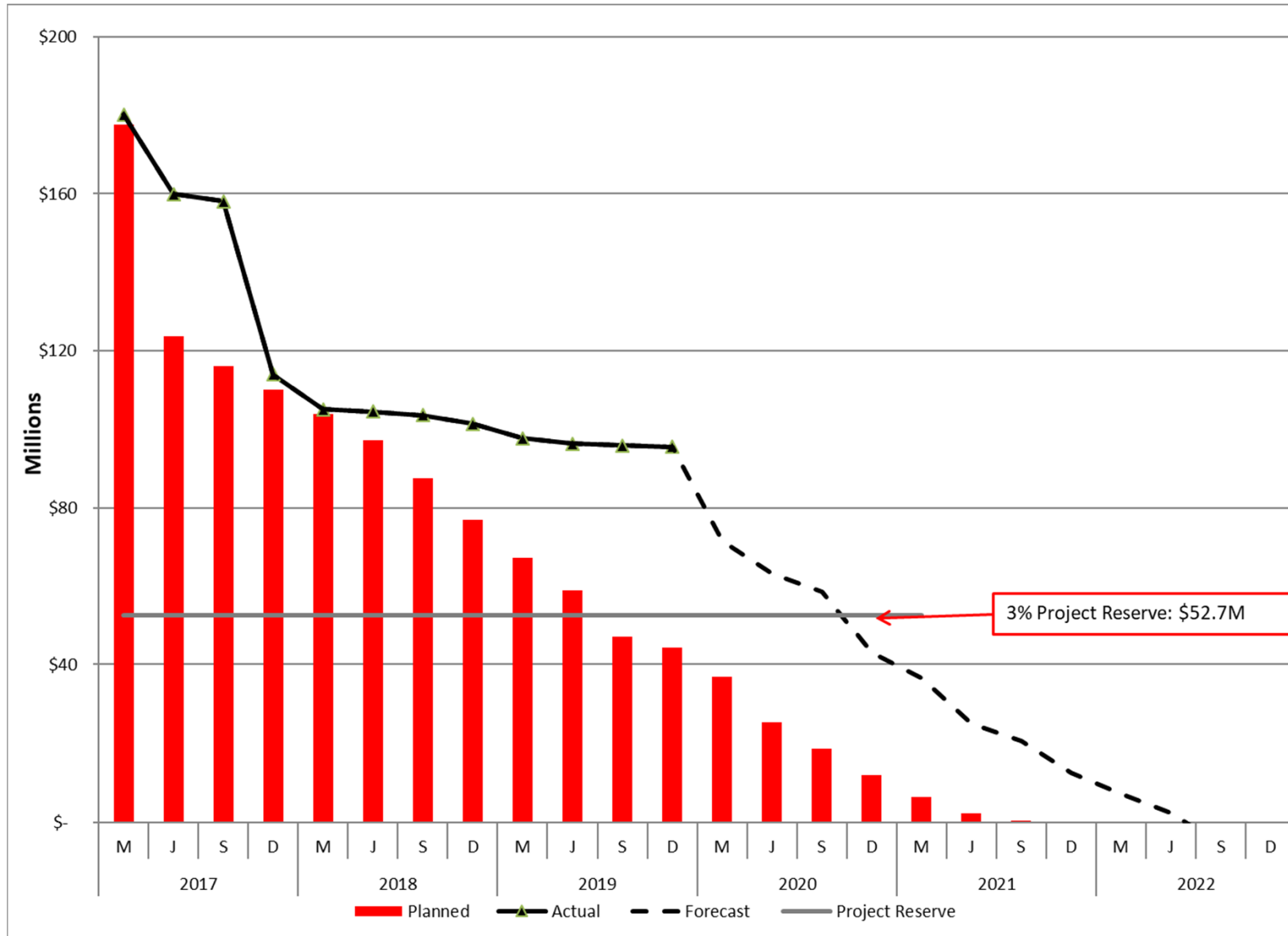
## Project Cost Contingency Drawdown

December 2019





# Regional Connector Project Cost Contingency Drawdown

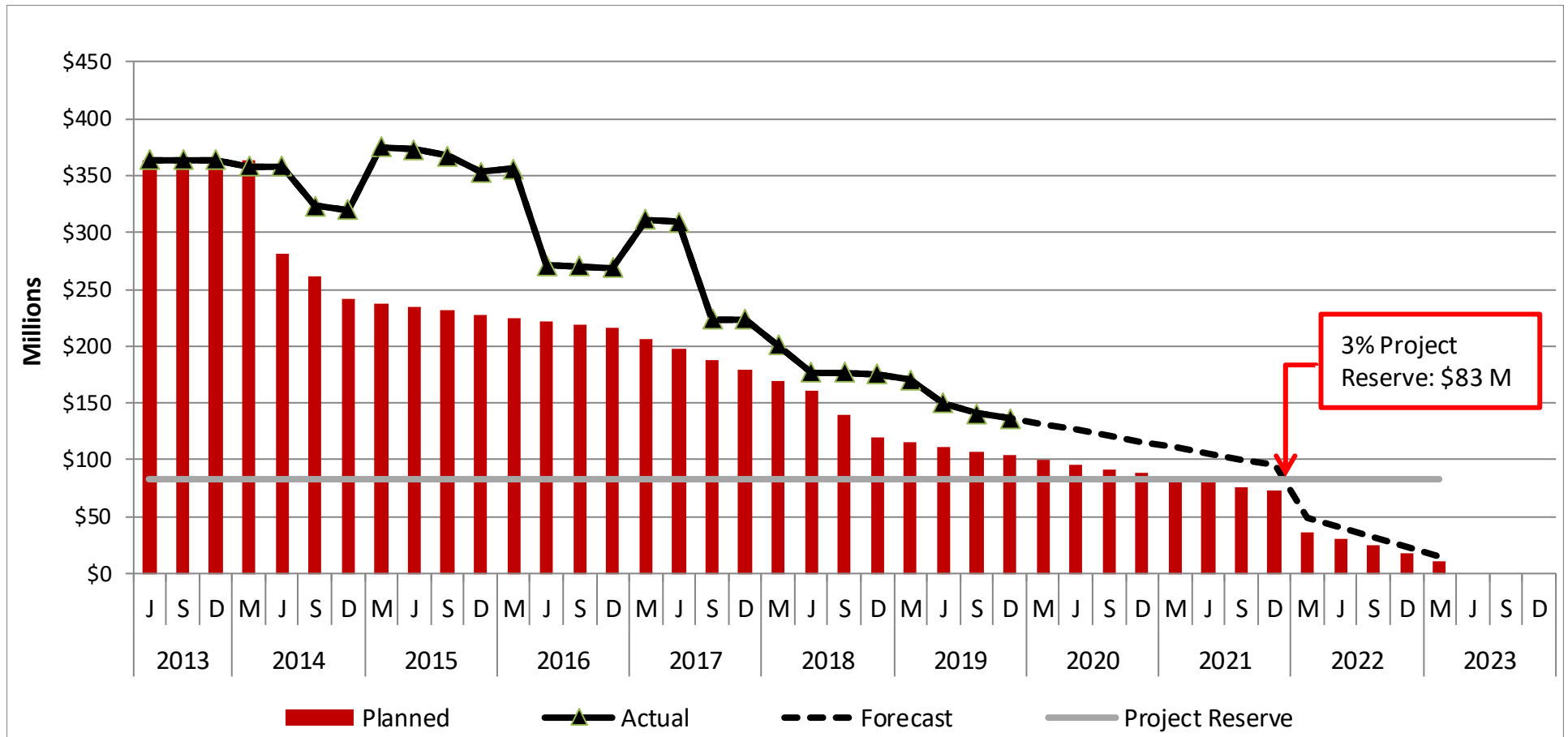


Data as of December 2019

# Westside Purple Line Extension – Section 1

## Project Cost Contingency Drawdown

December 2019



# Westside Purple Line Extension – Section 2

## Project Cost Contingency Drawdown

December 2019

