



## Board Report

File #: 2019-0017, File Type: Oral Report / Presentation

Agenda Number: 25.

### CONSTRUCTION COMMITTEE FEBRUARY 21, 2019

**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 2019 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
- **The New Blue** - 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** - Shannon Hanley, Chief Administrative Analyst, (213) 922-1350

# Program Management Major Project Status Report

Presented By

**Richard Clarke**

Chief Program Management Officer

---























February 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority



# PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			Project is 90% complete. Metro issued non-compensable time extension to contractor extending Contract Substantial Completion Milestone to December 2019. The forecast revenue service date is Spring 2020.
Regional Connector			Project is 55% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 44% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2			Project is 14% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Issued Contract C1151 (Tunnels) award to Frontier-Kemper/Tutor Perini Joint Venture on November 30, 2018 and issued Notice to Proceed on January 15, 2019.
Patsaouras Plaza			Project is approximately 65% complete. Metro issued Order of Suspension August 3 <sup>rd</sup> due to archaeological and Native American issues. With anticipated construction delay of 10 months, significant impacts to project schedule and budget expected. Project expected to resume construction by late February 2019
Willowbrook/Rosa Parks Station			Package A is 15% complete with underground utility work in progress. Structural Steel installation to begin on mobility hub. Package B 100% bid package being finalized.
Metro Blue Line Projects			Early Start Work is at 95% completion. Established a combined schedule for three projects (including Willowbrook Station) and Metro internal work. New Blue shutdown work starts January 26, 2019.
I-210 Barrier Replacement			Finding effective mitigation measures to some of the non-standard freeway features along with mitigation measures to alleviate freeway traffic disruption during construction are delaying the project.
I-5 North: SR 118 to SR 134			Segment 1 & 2 (SR 118 to Buena Vista) are complete and open to traffic. Segment 3 (Empire) is 71% complete. Segment 4 (Magnolia to SR-134) is 85% complete.
I-5 South: Orange County Line to I-605			Segment 2 (Valley View) is 37% complete. Segment 3 (Rosecrans) is open to traffic. Segment 4 (Imperial) is 94% complete. Segment 5 (Florence) is 75% complete.

February 2019



On target



Possible problem



Major issue



Metro 2

Construction Committee

Los Angeles County Metropolitan Transportation Authority

# CRENSHAW/LAX TRANSIT PROJECT

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

⚠️ SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
REVENUE	Fall	Spring
OPERATION	2019	2020

- Overall Project Progress is 90% complete; addressing contractor construction schedule
- Contractor continues critical construction efforts in the five underground structures in the north end
- Completed major work in January for Crenshaw Line track and systems cut-over to Green Line
- Achieved substantial completion for Southwestern Yard Maintenance Facility (Division 16)
- Working with contractor to address open punch list items on City streets and sidewalks



Finishes and systems installation in underground station



Systems Integration Testing with vehicle at Division 16

February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 3

# REGIONAL CONNECTOR TRANSIT PROJECT

## OK BUDGET

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

\* Includes Board approved LOP budget plus finance costs.

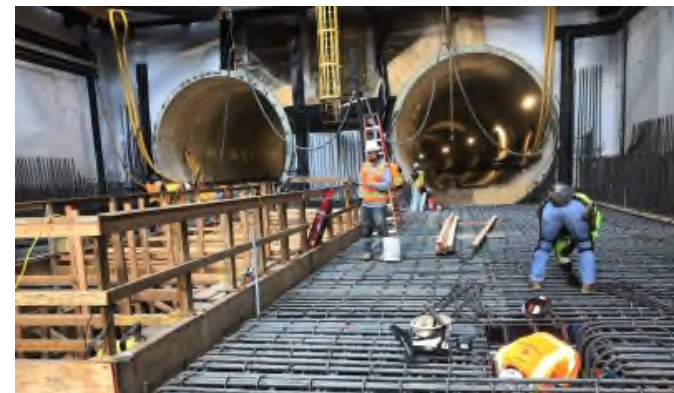
- Overall Project Progress is 55% complete
- Underground:** SEM crossover cavern excavation approximately 95% complete; forecast completion March 6 – slightly ahead of schedule. Liner and plenum to follow
- Little Tokyo/Arts District Station, WYE and 1<sup>st</sup> Street:** Excavation and related support of utilities are ongoing at WYE and 1<sup>st</sup> Street; structural concrete operations underway on station box walls
- Historic Broadway Station:** Structural concrete continues with exterior walls in station box and entrance concourse
- Grand Av Arts/Bunker Hill Station:** Structural concrete walls continue to be erected at multiple levels throughout station
- Flower Street:** Excavation and utility protection south of 5<sup>th</sup> continues; invert placement underway between 4th and 5th Streets

## OK SCHEDULE

	<u>Current</u>	<u>Forecast</u>
REVENUE OPERATION	Winter 2021/2022	Winter 2021/2022



Demolition progress of central walls of SEM



Rebar shear tie installation in Grand Av Arts/Bunker Hill Station

February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 4

# WESTSIDE PURPLE LINE EXTENSION – SECTION 1

## BUDGET

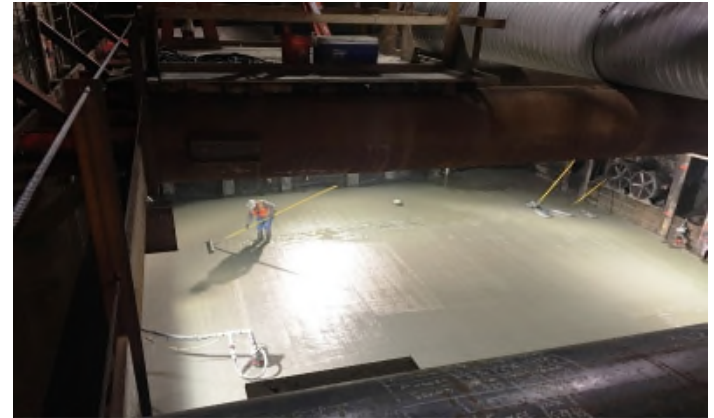
	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	\$3,154M	\$3,154M

\* Includes Board approved LOP budget plus finance costs.

## SCHEDULE

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

- Overall Project Progress is 44% complete
- Wilshire/Western Retrieval Shaft:** On January 11, 2019, the Tunnel Boring Machine (TBM) temporary support slab was poured. Civil restoration of the Wilshire/Western site is underway.
- Wilshire/La Brea Station:** Concrete placement for interior load bearing walls continues. Shoring installation for the concourse deck has commenced.
- Wilshire/Fairfax Station:** Mass excavation and Level D strut installation at the east end of the station continues. Grounding grid installation started mid-January 2019.
- Wilshire/La Cienega Station:** Installation of Level C struts continues. Bottom of excavation is anticipated to be reached in May 2019.
- Reach 1 TBM Progress (W/LB to W/W):** TBM #1 - 2,856 ft. or 30%; TBM #2 – 1,597 ft. or 17% as of January 23, 2019



Wilshire/La Brea Station – TBM Support Slab



Reach 1 Tunneling

February 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue



Metro 5

# 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	Winter	Summer
OPERATION	2026 (FFGA)	2025

- Overall project progress is 14% complete.
- Final design progress is 88% complete.
- **Century City Constellation**
  - Civil work for LADWP Power and AT&T were completed in December 2018. Cable pulling and splicing for both continues through November 2019.
  - Installation of the temporary LADWP power substation for the tunnel boring machines (TBMs) continues.
  - Contractor completed installation of all 88 soldier piles at the TBM launch box in January 2019.
  - Santa Monica bus layover construction is ongoing with an anticipated completion in February 2019.
  - AT&T parking structure demolition started in December 2018 and is ongoing with a forecasted completion in first quarter of 2019.
- **Wilshire/Rodeo**
  - Demolition of former Ace Gallery completed in December 2018.
  - Preparation for contractor utility relocations is ongoing.



Soldier Pile Installation in Century City



Concrete Placement at Soldier Pile in Century City

February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 6

# WESTSIDE PURPLE LINE EXTENSION – SECTION 3

## BUDGET

	<u>Current</u>	<u>Forecast</u>
TOTAL COST*	TBD	\$3,675M

\* Includes finance costs.

## SCHEDULE

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

- Received FTA's approval of 130c environmental document on December 21, 2018.
- C1151 Tunnel Contract – Contract award to Frontier-Kemper/Tutor Perini Joint Venture was issued on November 30, 2018 and Notice to Proceed was issued on January 15, 2019.
- C1152 Stations, Trackwork and Systems Contract – Contract award is subject to Board approval and FTA's approval of a Full Funding Grant Agreement (FFGA).
- C1153 Advanced Utility Relocations (AUR) Contract – Overall progress is 71% complete.



Conduit Encasing on Wilshire Blvd.



Conduit Installation on Wilshire Blvd.

February 2019



On target



Possible problem



Major issue

Construction Committee


Los Angeles County Metropolitan Transportation Authority



Metro 7



# PATSAOURAS PLAZA BUSWAY STATION

 BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$39.7M	\$TBD

 SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Winter 2018	March 2020

- Overall project progress approximately 65% complete
- Project contractor and construction suspension continues due to archaeological and Native American resource issues
  - Project team is working diligently to resume construction with FTA and the consulting parties by late February/early March 2019
    - However, this date may be impacted by Federal government shutdown
- Archaeological investigation and treatment field work began on November 12, 2018, and expected to be completed early February 2019.
- Archaeological and Native American issues will deplete project contingency, requiring Life of Project (LOP) budget increase
  - Metro concluded global settlement negotiations with contractor on December 14, 2018, with expected Board Report in March 2019



# WILLOWBROOK/ROSA PARKS STATION

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

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

- Package A: Utility Work in progress with main cisterns installed. Decking and framing for Customer Service Building beginning. Structural steel installation set to start on the mobility hub.
- Package C: Construction continues to make preparation for Blue Line shutdown.
- Package B: Finalizing 100% bid Package.



Early Start Construction and Demolition for Package A+C

February 2019



On target



Possible problem



Major issue


Construction Committee


Los Angeles County Metropolitan Transportation Authority



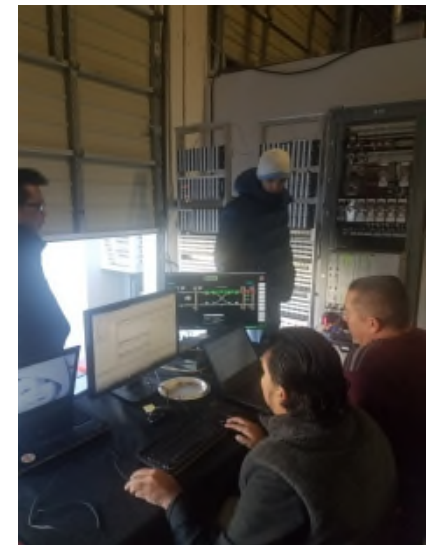
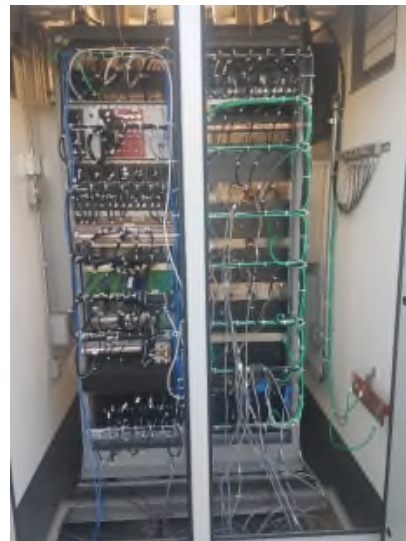
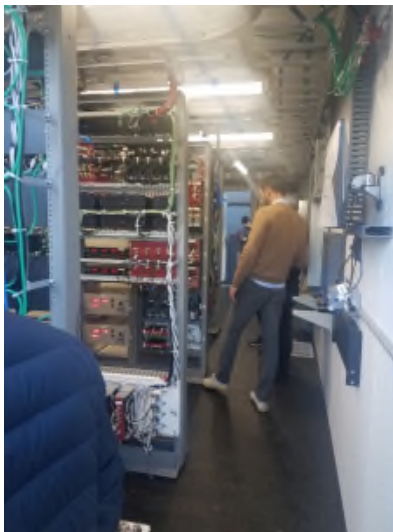
Metro 9

# THE NEW BLUE

 BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$221.3M	\$221.3M

 SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	Fall 2019	Fall 2019

- MBL Resignaling Design is 97% complete; Early Start underground work is 90% Completed
- The first Factory Acceptance Test was successful for the new Compton Interlocking
- First Track Coordination meeting took place January 15, 2019 and New Blue shutdown work commenced on January 26, 2019



Compton Interlocking Factory Testing

February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 10

# I-210 BARRIER REPLACEMENT PROJECT

◆ BUDGET		
	Current	Forecast
TOTAL COST	\$11.08M Design	\$22.54M Design

◆ SCHEDULE		
	Current	Forecast
Complete Design (Proj 1)	Summer 2019	Summer 2019
Complete Design (Proj 2)	Spring 2020	Spring 2020

- Conducting traffic micro-simulation studies to quantify the traffic delays during construction which are expected to be beyond the normal acceptable range and provide for effective mitigation measures.
- Coordinating mitigation measures with Caltrans to address existing non-standard freeway features and other non-standard features caused by this project
- Project 1: Segment from Michillinda to Iconic Bridge – Continuing environmental studies
- Project 2: Segment from west end of the project to Michillinda – Continuing traffic micro-simulation studies
- Separate Board report to request authorization to complete final design.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 11

# I-5 Construction Projects (By Caltrans)



February 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority

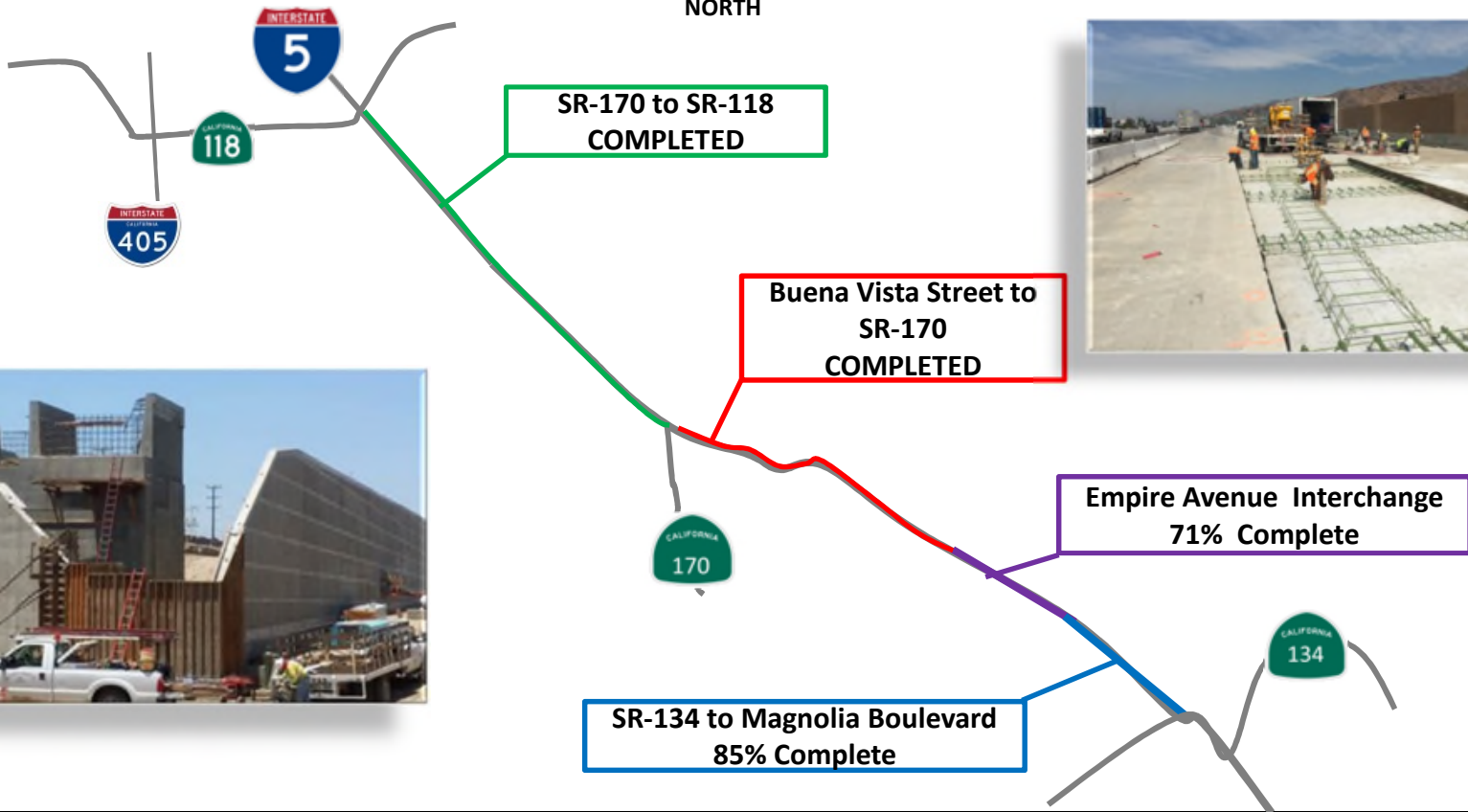


# I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current	Forecast
	\$880.9M	TBD

🟡 SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast
	Spring 2022	Summer 2022



February 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



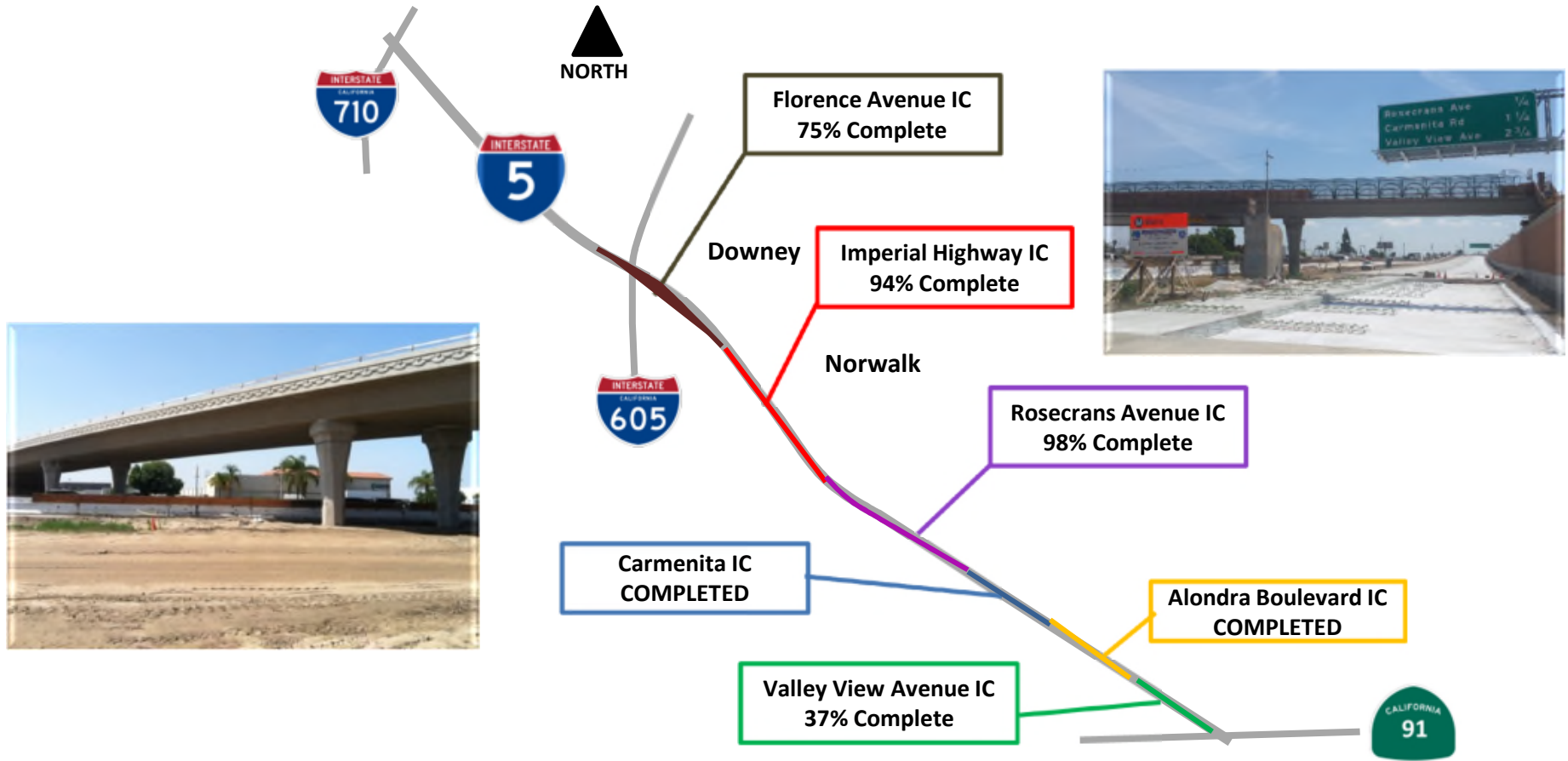
Metro 13

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



◆ BUDGET	Current	Forecast
TOTAL COST	\$1.888B	TBD

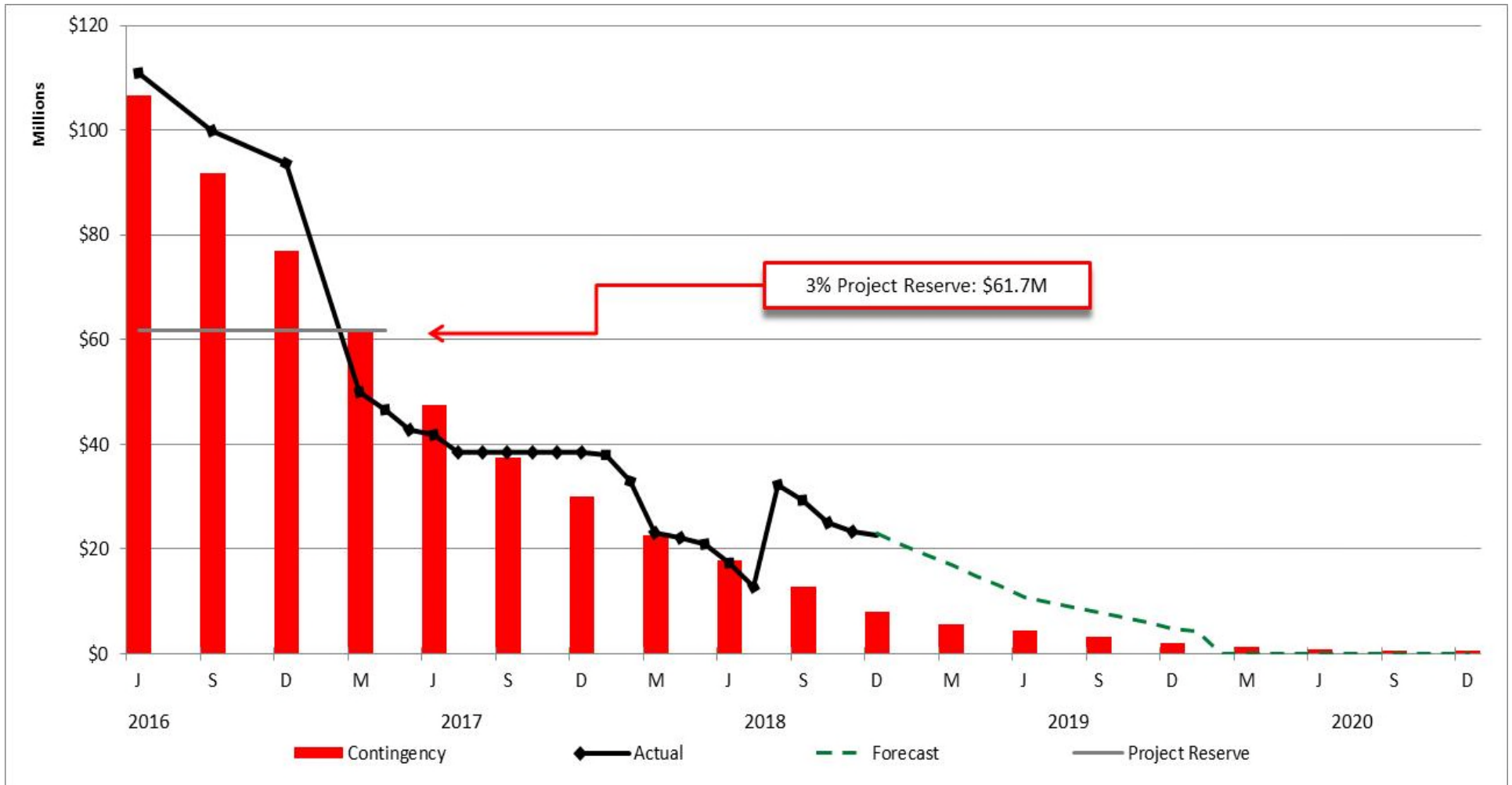
◆ SCHEDULE	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Summer 2022	Fall 2022



# Crenshaw/LAX Transit Project

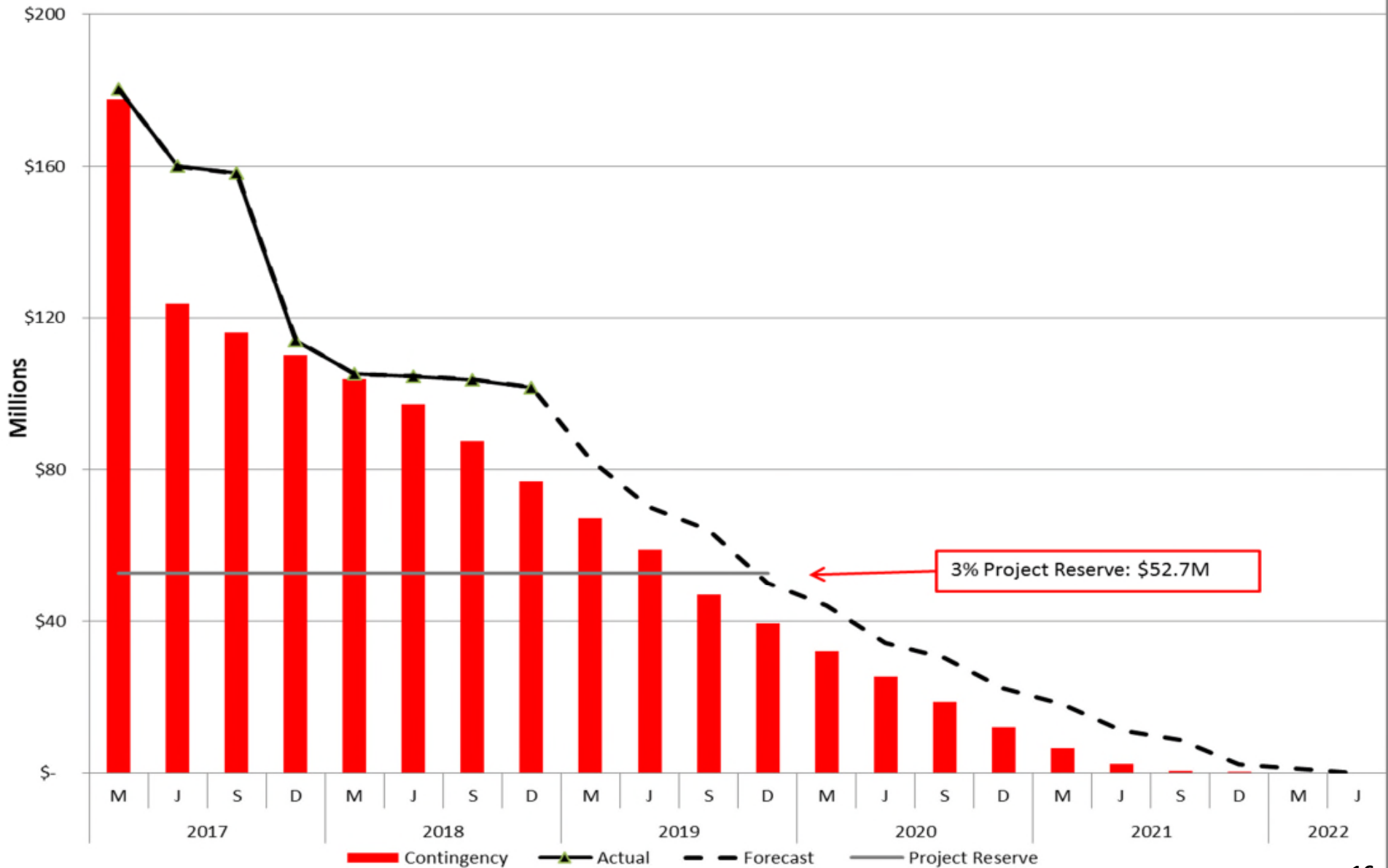
## Project Cost Contingency Drawdown

December 2019





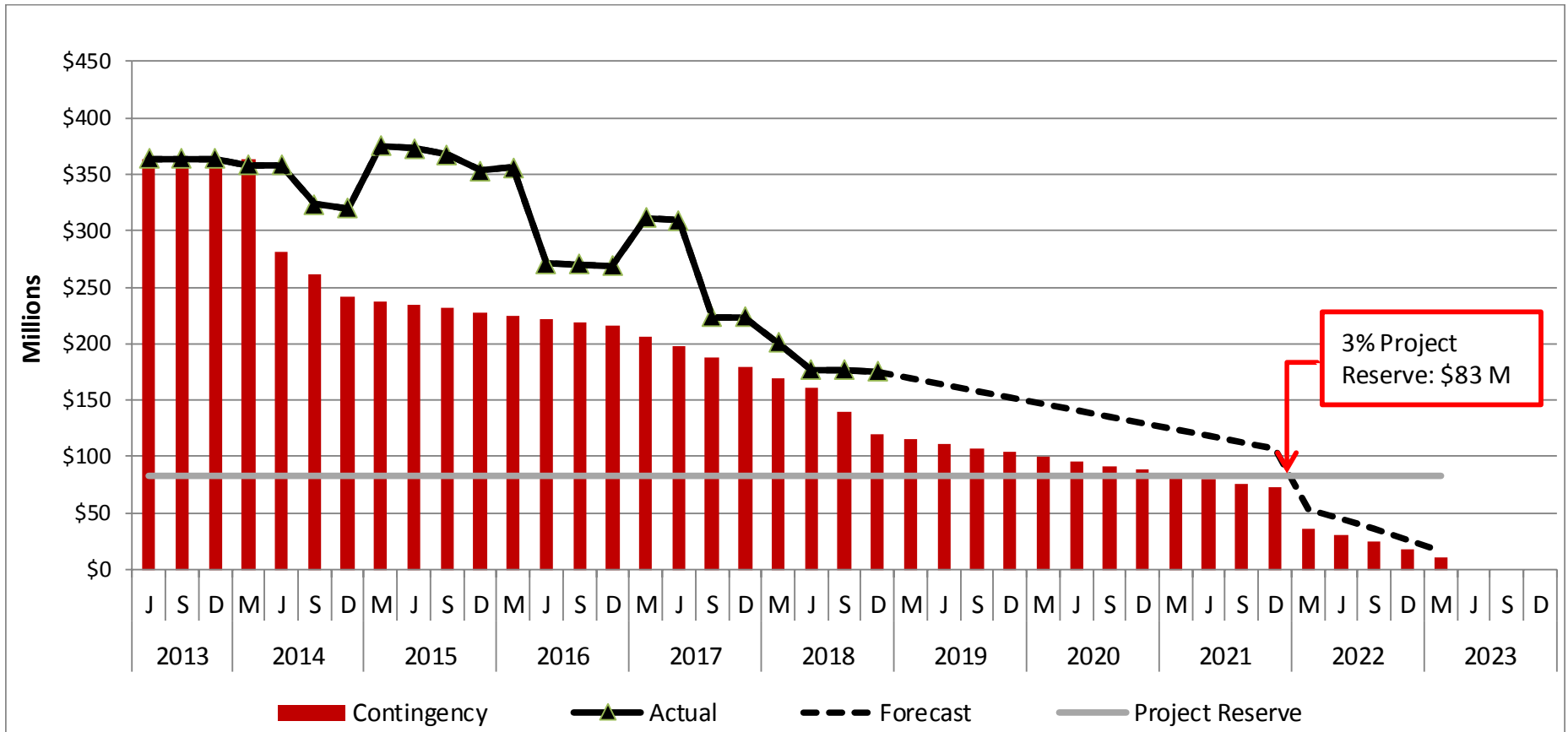
# Regional Connector Project Cost Contingency Drawdown



# Westside Purple Line Extension – Section 1

## Project Cost Contingency Drawdown

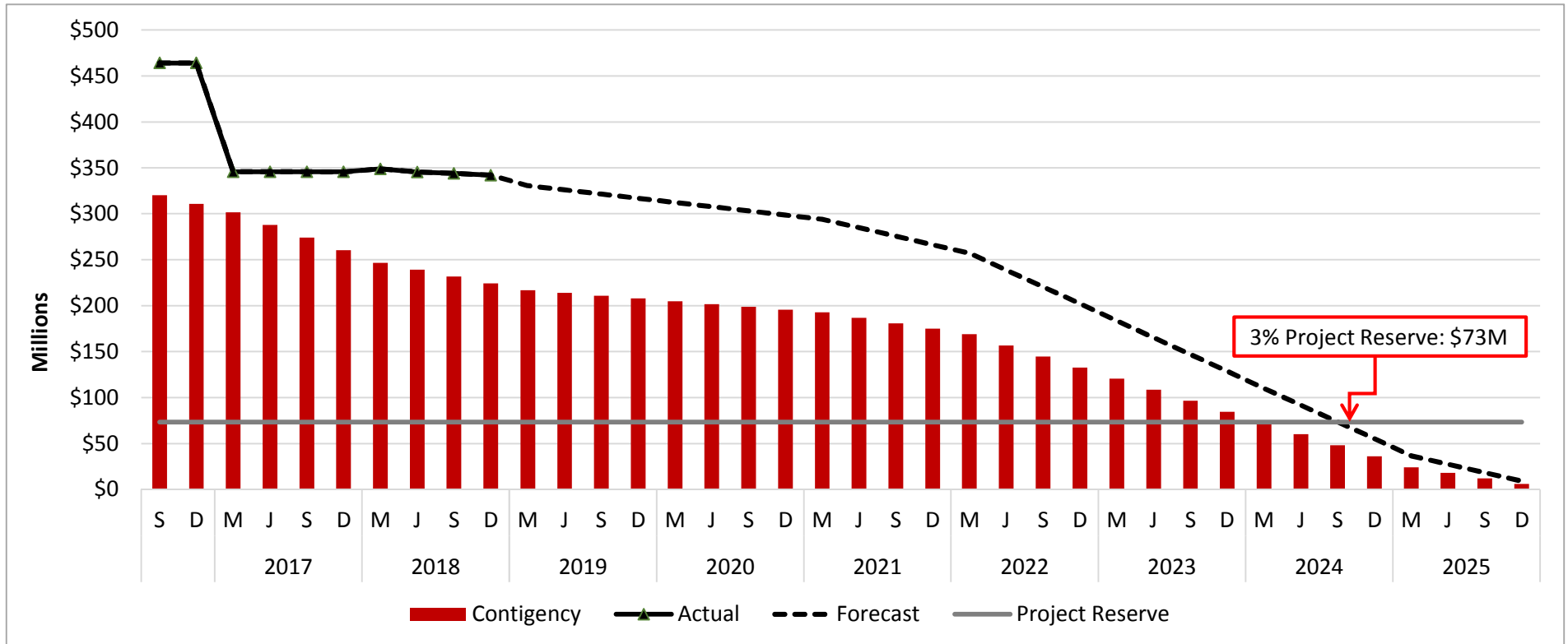
December 2018



# Westside Purple Line Extension – Section 2

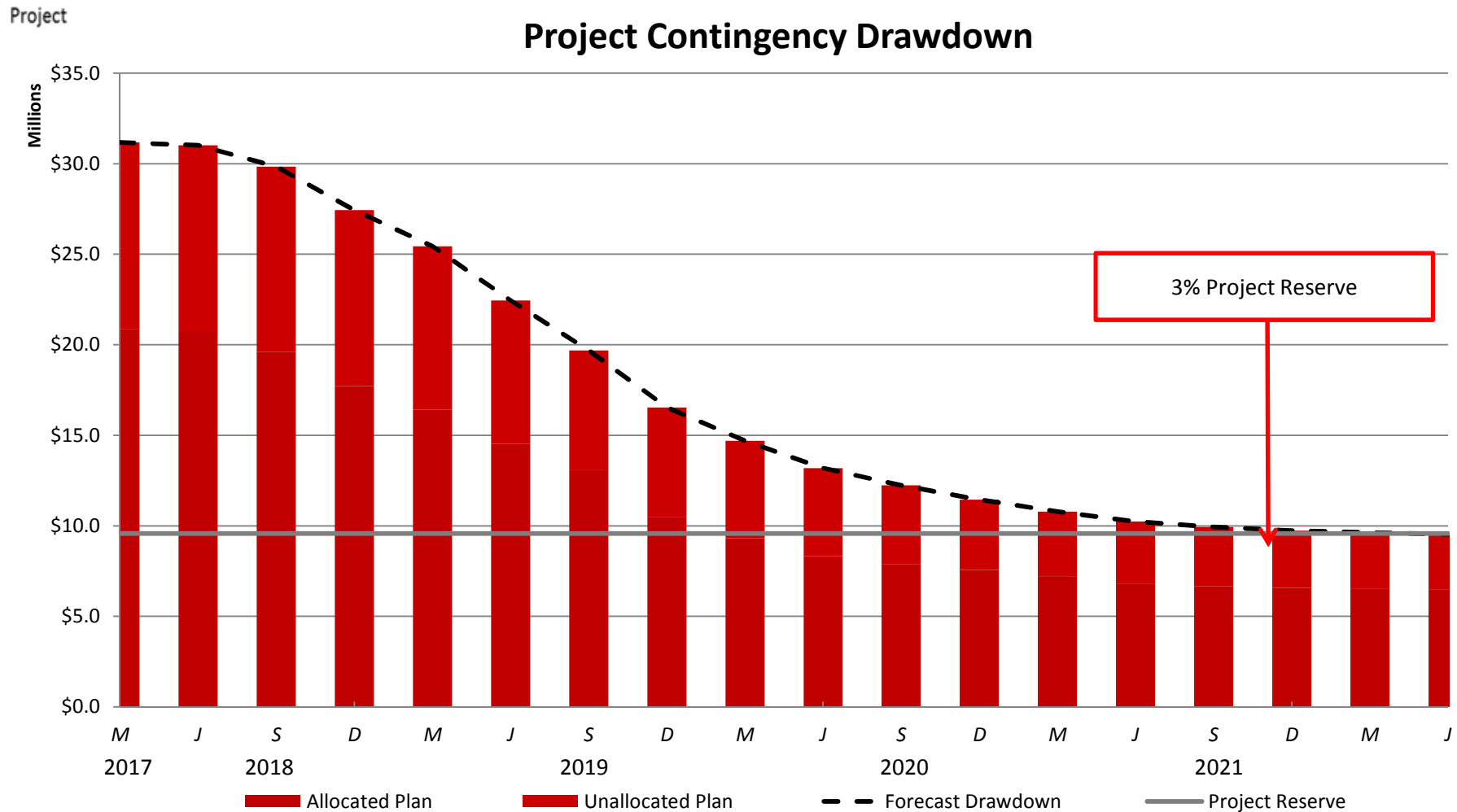
## Project Cost Contingency Drawdown

December 2018



# The New Blue

## Project Cost Contingency Drawdown



3% Project Reserve

- Blue Line Signal Rehabilitation
- Blue Line Track and System Refurbishment
- Willowbrook/Rose Park Station