



Board Report

File #: 2019-0069, File Type: Oral Report / Presentation

Agenda Number: 27.

CONSTRUCTION COMMITTEE MARCH 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

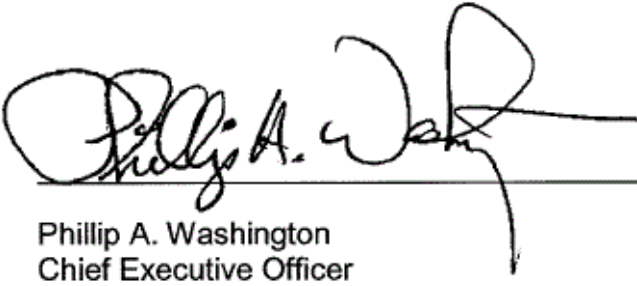
Update report covering the month of March 2019 by the Chief Program Management Officer.

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



Phillip A. Washington
Chief Executive Officer

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

March 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 91% 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 56% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 45% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2			Project is 15% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			Issued Notice to Proceed (NTP) to Frontier-Kemper/Tutor Perini, a Joint Venture for the C1151 Tunnels Contract on January 15, 2019.
Patsaouras Plaza			Project is approximately 65% complete. Metro issued Order of Suspension August 3rd due to archaeological and Native American issues. With anticipated construction delay of 11 months, significant impacts to project schedule and budget expected. Project expected to resume construction by late March 2019.
Willowbrook/Rosa Parks Station			Package A is 20% complete with structural and framing work continuing on the Customer Service and Mobility Hub Buildings. Blue Line Station and Mezzanine work initiated with closure of Blue Line. Package B 100% bid package being finalized.
Metro Blue Line Projects			Major construction started January 26, 2019 with shut down of Metro Blue Line south segment. All construction work is proceeding per schedule and inclement weather mitigations are in place as necessary.
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 72% complete. Segment 4 (Magnolia to SR-134) is 89% complete.
I-5 South: Orange County Line to I-605			Segment 2 (Valley View) is 38% complete. Segment 3 (Rosecrans) is open to traffic. Segment 4 (Imperial) is 94% complete. Segment 5 (Florence) is 76% complete.

March 2019



On target



Possible problem



Major issue




Metro 2

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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 OPERATION	Fall 2019	Spring 2020

- Overall Project Progress is 91% complete; addressing contractor construction schedule
- Contractor continues critical construction efforts in the north end underground structures
- Working with 3rd parties to complete power drops for traction power substations in support of testing systems equipment
- Working on completing grade crossing in the south end to support start of Phase 1 systems testing integration in spring
- Contractor addressing open sidewalk, street punch list items



Plaza level walls at Martin Luther King Jr. Station



Substantial Completion achieved at Division 16

March 2019



On target



Possible problem



Major issue

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Los Angeles County Metropolitan Transportation Authority



Metro 3

REGIONAL CONNECTOR TRANSIT PROJECT

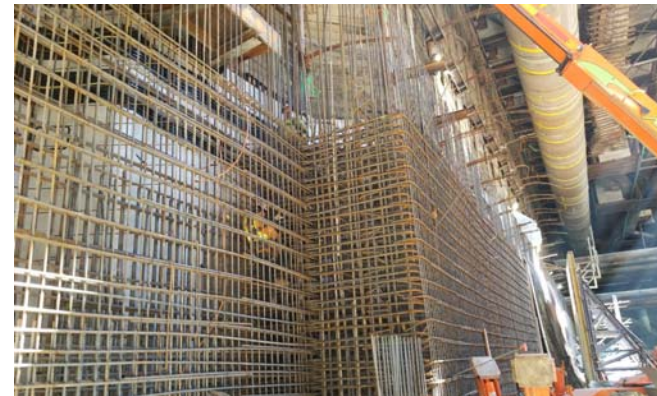
OK BUDGET

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

OK SCHEDULE

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

- Overall Project Progress is 56% complete
- Underground:** SEM crossover cavern excavation complete; final liner and plenum work has commenced
- Little Tokyo/Arts District Station, WYE and 1st Street:** Excavation and related support of utilities continue at WYE and 1st 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 5th continues



Rebar installation on Wall B of Historic Broadway Station



View from inside SEM Cavern to station

March 2019



On target



Possible problem



Major issue

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Metro 4

WESTSIDE PURPLE LINE EXTENSION – SECTION 1

OK BUDGET		
	Current	Forecast
TOTAL COST*	\$3,154M	\$3,154M

* Includes Board approved LOP budget plus finance costs.

OK SCHEDULE		
	Current	Forecast
REVENUE OPERATION	Fall 2024 (FFGA)	Fall 2023

- Overall Project Progress is 45% complete.
- Wilshire/Western Retrieval Shaft:** In January 2019, the Tunnel Boring Machine (TBM) temporary support slab was placed, and all lanes were re-opened on Wilshire Boulevard. Waler and strut removal is underway.
- Wilshire/La Brea Station:** Concrete placement for interior load bearing walls continues. Shoring and decking installation for the concourse deck is on-going.
- Wilshire/Fairfax Station:** Mass excavation at the east end of the station continues. On-going activities: fine grading of sub-grade; grounding grid, vent mat, gravel layer installation.
- 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 - 3,742 ft. or 39%; TBM #2 – 2,812 ft. or 29% as of February 13, 2019.



Reconfiguration of Ventilation at the Western Shaft



Reach 1 Tunneling

March 2019

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On target



Possible problem



Major issue



Metro 5

WESTSIDE PURPLE LINE EXTENSION – SECTION 2

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

* Includes Board approved LOP budget plus finance costs.

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

- Overall project progress is 15% complete.
- Final design progress is 90% complete.
- **Century City Constellation**
 - Cable pulling and splicing for LADWP Power and AT&T is ongoing with an anticipated completion date of November 2019.
 - Soldier pile installation at the tunnel boring machine (TBM) launch box was completed in January 2019.
 - Santa Monica bus layover construction is ongoing with an anticipated completion in March 2019.
 - AT&T parking structure demolition started in December 2018 and is ongoing. The anticipated turnover of the property to Metro is March 2019.
- **Wilshire/Rodeo**
 - Preparation for wet utility relocations by design-builder is ongoing.
 - Sound wall installation at the Reeves staging yard is anticipated to be completed in March 2019.
 - MOA approved by the City of Beverly Hills



Soldier Pile Installation in Century City



AT&T Parking Structure Demolition in Century City

March 2019



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*	TBD	\$3,713M

* Includes finance costs.

SCHEDULE

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

- 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. The Pre-Construction (kick-off) Meeting was held on January 16, 2019.
- C1152 Stations, Trackwork and Systems Contract – Notice to Proceed is subject to FTA’s approval of a Full Funding Grant Agreement (FFGA).
- C1153 Advanced Utility Relocations (AUR) Contract – Overall progress is 72% complete.
- Issued a work order to MCI to relocate Verizon and Frontier telecommunication lines into a single joint trench on December 18, 2018. Construction started on February 11, 2019.



Ductbank Trench Excavation



Main Line A and Lateral A7 Excavation and Potholing

March 2019



On target



Possible problem



Major issue


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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>
	Winter	March
SUBSTANTIAL COMPLETION	2018	2020

- Overall project progress remains at approximately 65% complete
- Project contractor and construction suspension continues since April 24, 2018 due to archaeological and Native American resource issues
 - Project team is working diligently to resume construction with FTA and the consulting parties by late March 2019
- Archaeological investigation and treatment field work began on November 12, 2018, and expected to be completed March 2019
 - To date 35 archaeological features including human remains discovered
- 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 April 2019

March 2019



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: Utility Work in progress with main cisterns installed. Structural components and framing for Customer Service and Mobility Hub Building in progress
- Package C: Demolition started on Blue Line Platform and Mezzanine with shut down of Blue Line
- Package B: Finalizing 100% bid Package.



Construction and Demolition for Package A+C

March 2019



On target



Possible problem



Major issue

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Metro 9

THE NEW BLUE

BUDGET		
	Current	Forecast
TOTAL COST	\$221.3M	\$221.3M

SCHEDULE		
	Current	Forecast
SUBSTANTIAL COMPLETION	Fall 2019	Fall 2019

- Metro Blue Line south segment shutdown started on January 26, 2019
- Rail replacement and rebooting 35% complete
- Overhead Catenary System (OCS) demolition work is 40% complete
- Compton new interlocking track work completed and new bungalows installed
- All construction work is proceeding per schedule and inclement weather mitigations are in place as necessary.



Rail Replacement at Long Beach



Compton New Train Control Bungalow



Overhead Catenary System Demolition

March 2019



On target



Possible problem



Major issue

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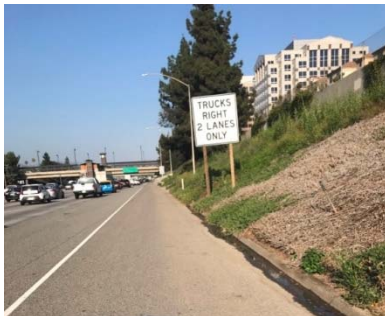
Metro

I-210 BARRIER REPLACEMENT PROJECT

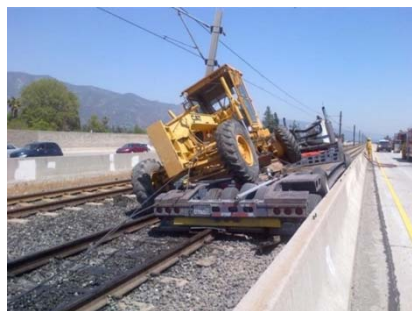
BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$11.08M	\$22.62M
	Design	Design

SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
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. This traffic analysis is scheduled to be completed by mid-April 2019.
- Coordinating mitigation measures with Caltrans to address existing non-standard freeway features and other non-standard features caused by this project. Draft document to be submitted to Caltrans for Project 1 by end of March 2019
- Project 1: Segment from Michillinda to Iconic Bridge – Continuing surveying & 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

March 2019



On target



Possible problem



Major issue

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Metro 11

I-5 Construction Projects (By Caltrans)



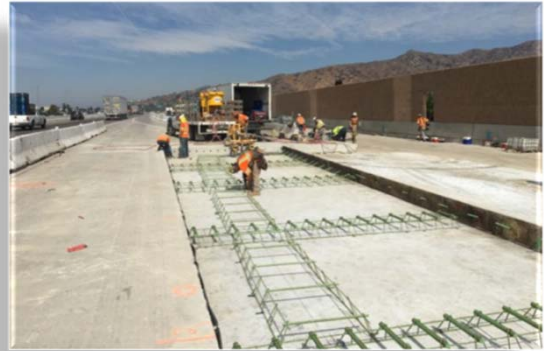
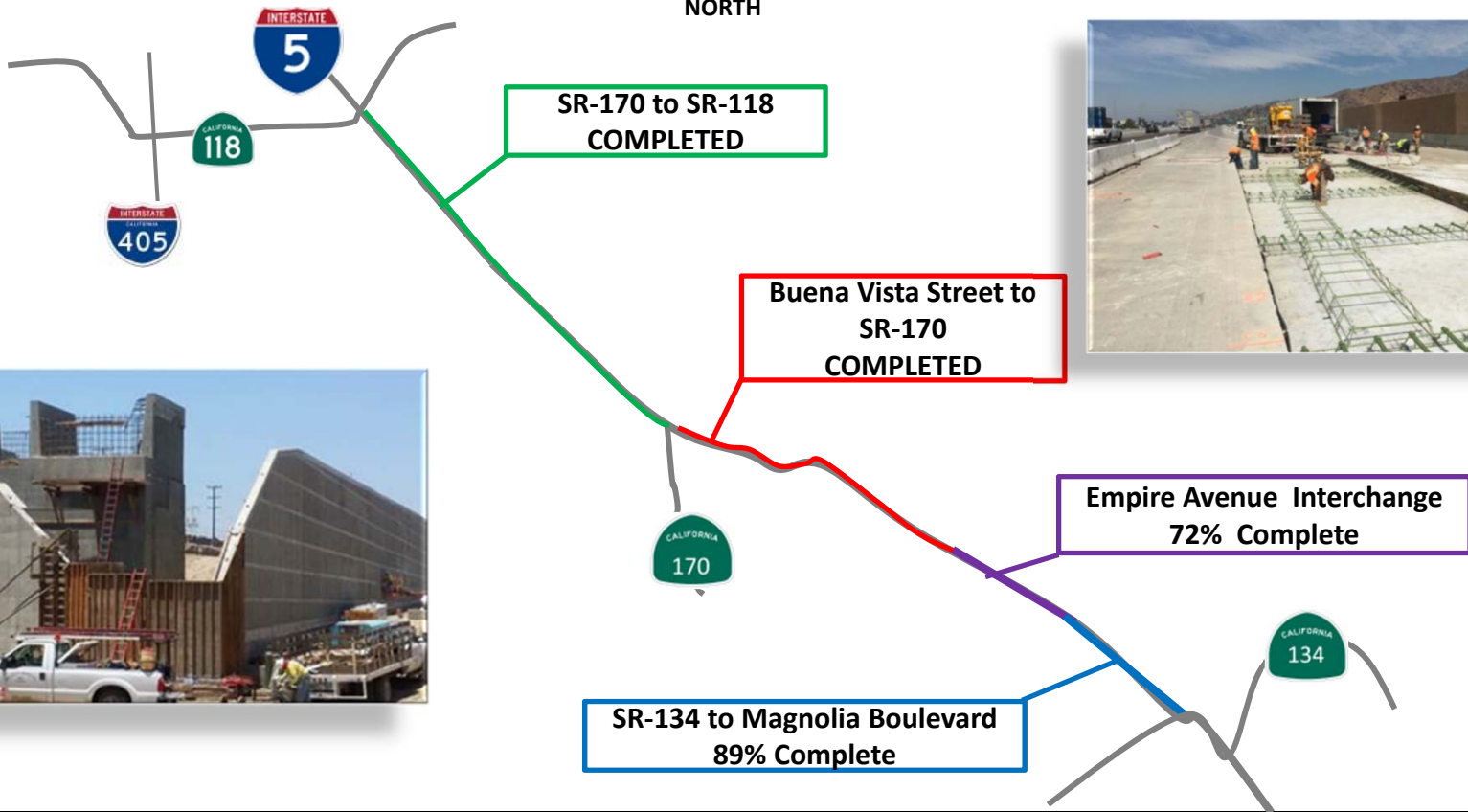
March 2019
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I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current	Forecast
	\$880.9M	TBD

🟡 SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current	Forecast
	Spring 2022	Summer 2022



March 2019



On target



Possible problem



Major issue

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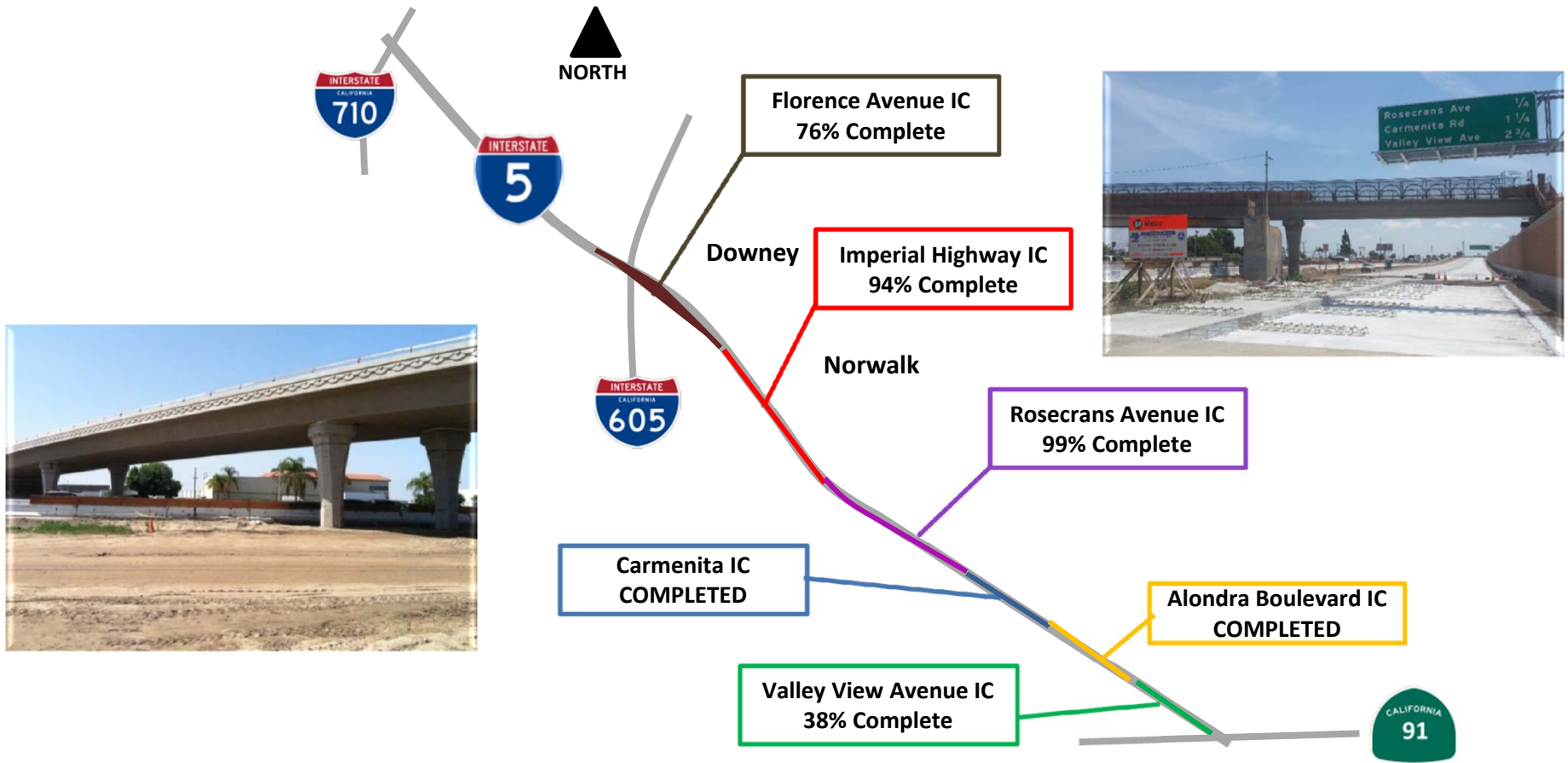
Metro 13

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



OK BUDGET		
	Current	Forecast
TOTAL COST	\$1.888B	TBD

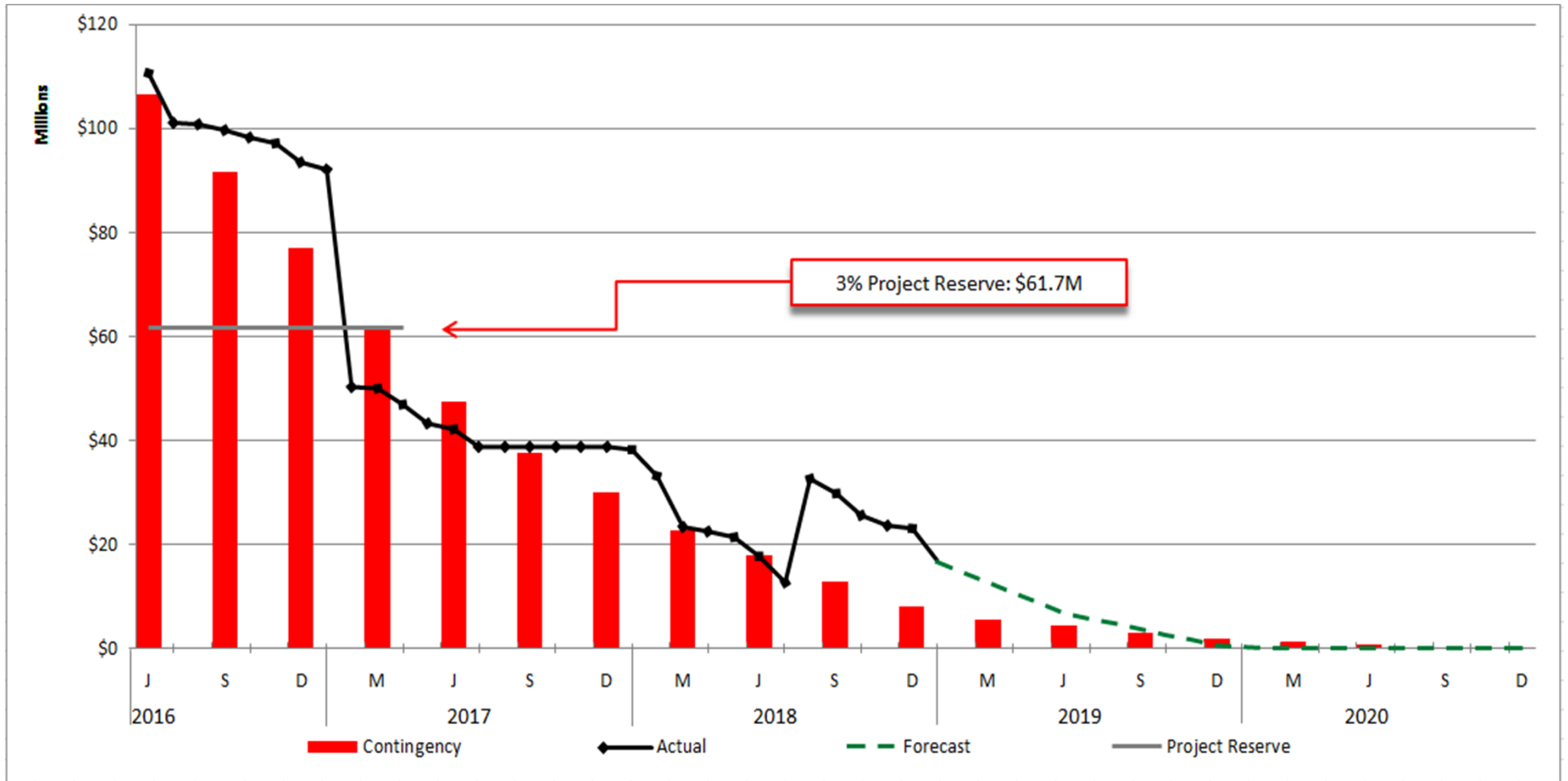
◇ SCHEDULE		
	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Summer 2022	Fall 2022



Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

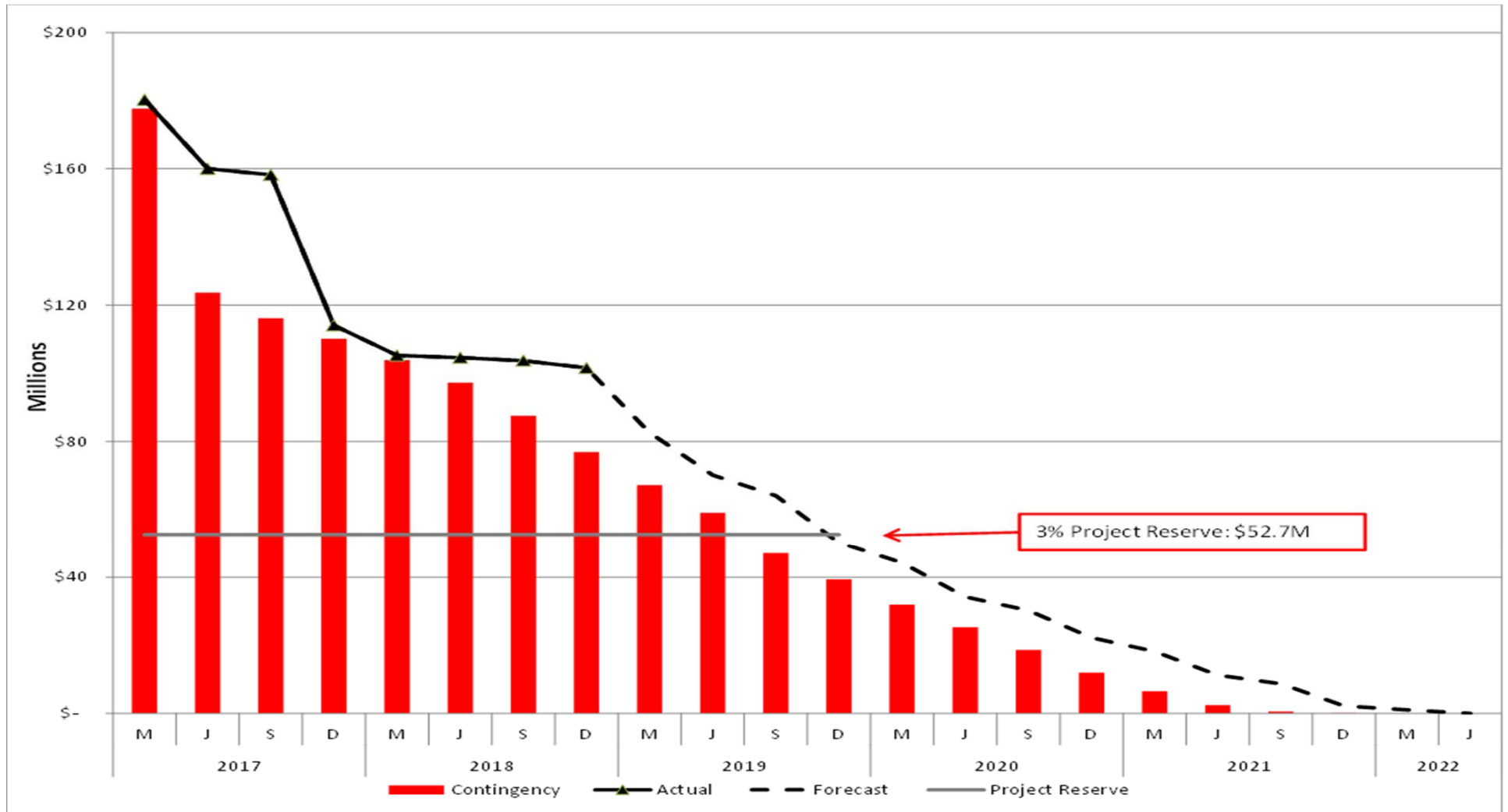
January 2019



Regional Connector

Project Cost Contingency Drawdown

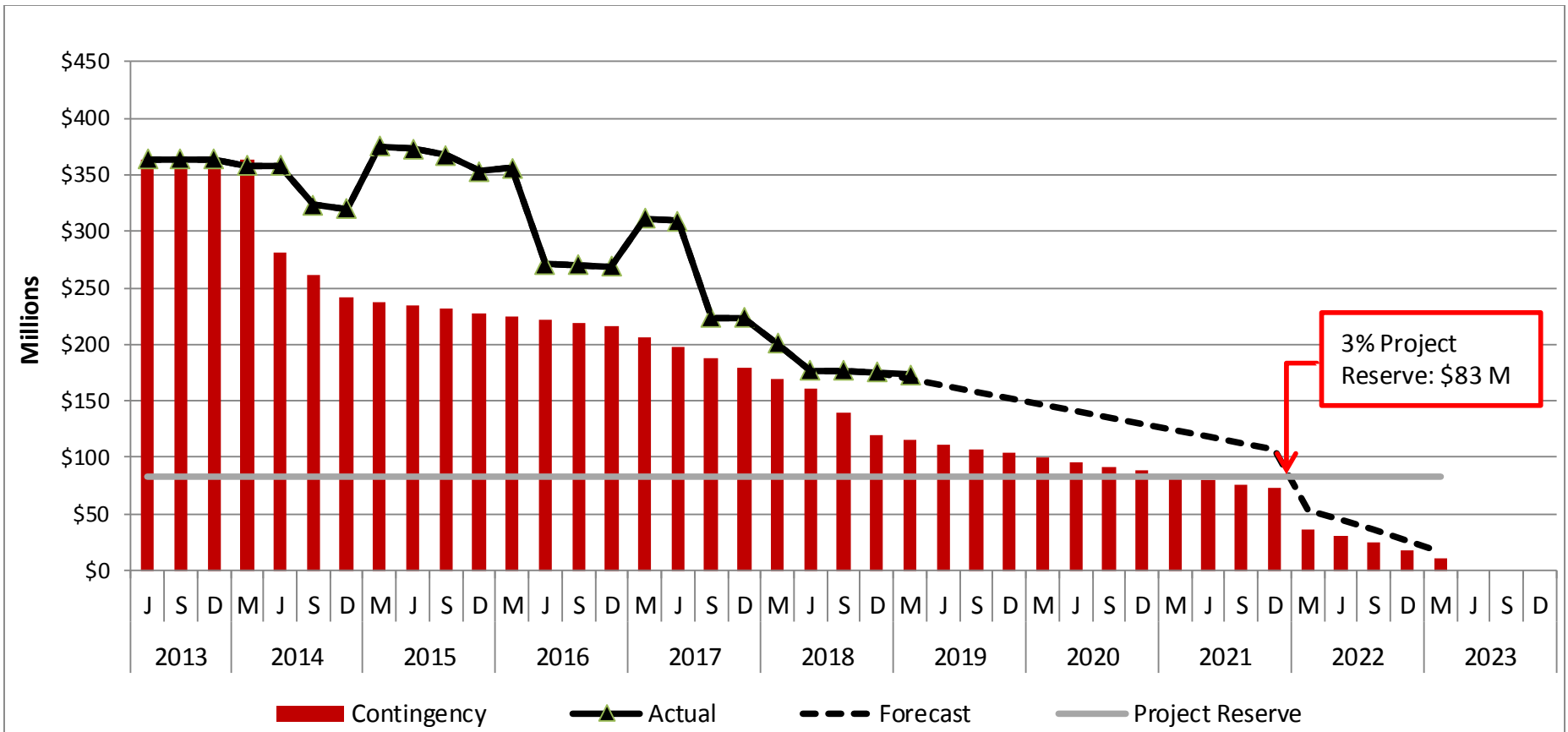
January 2019



Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown

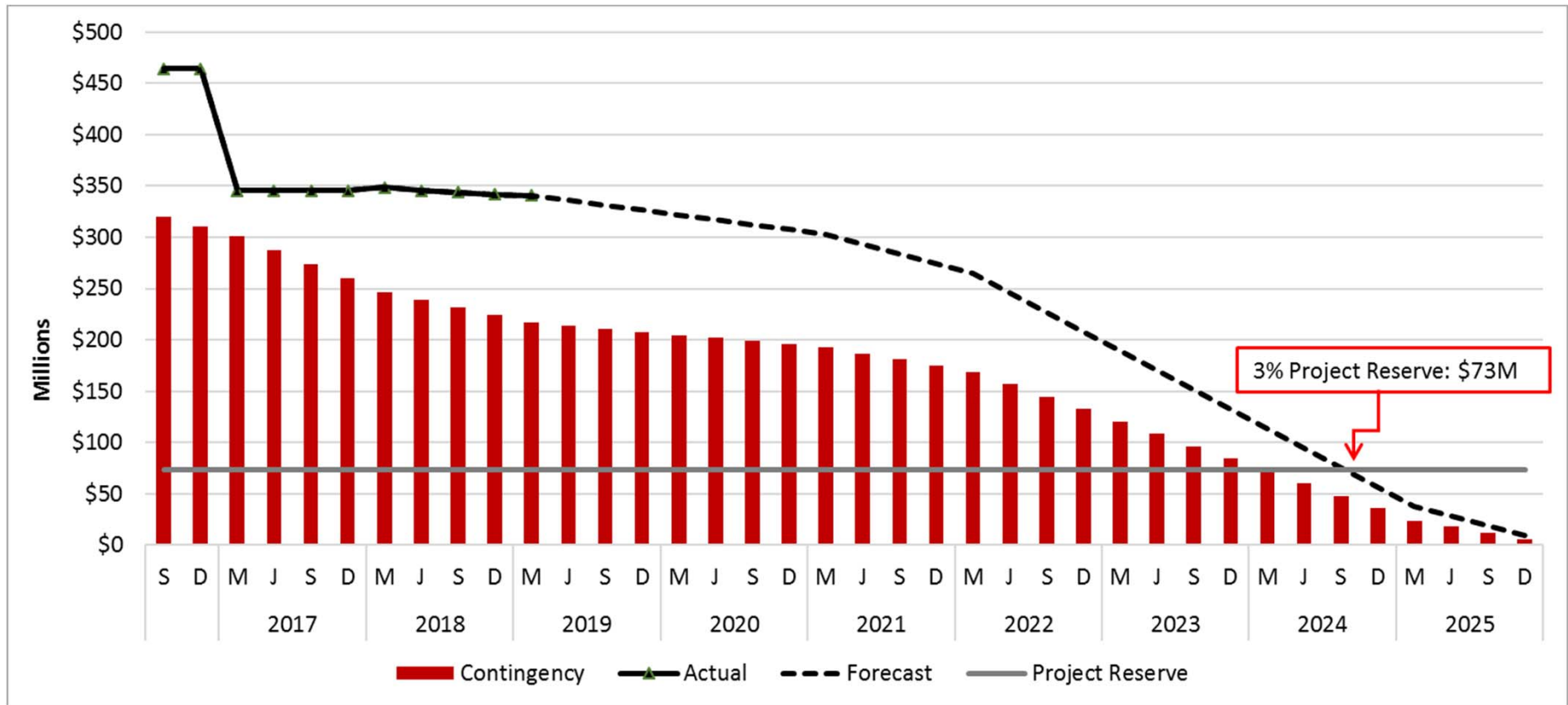
January 2019



Westside Purple Line Extension – Section 2

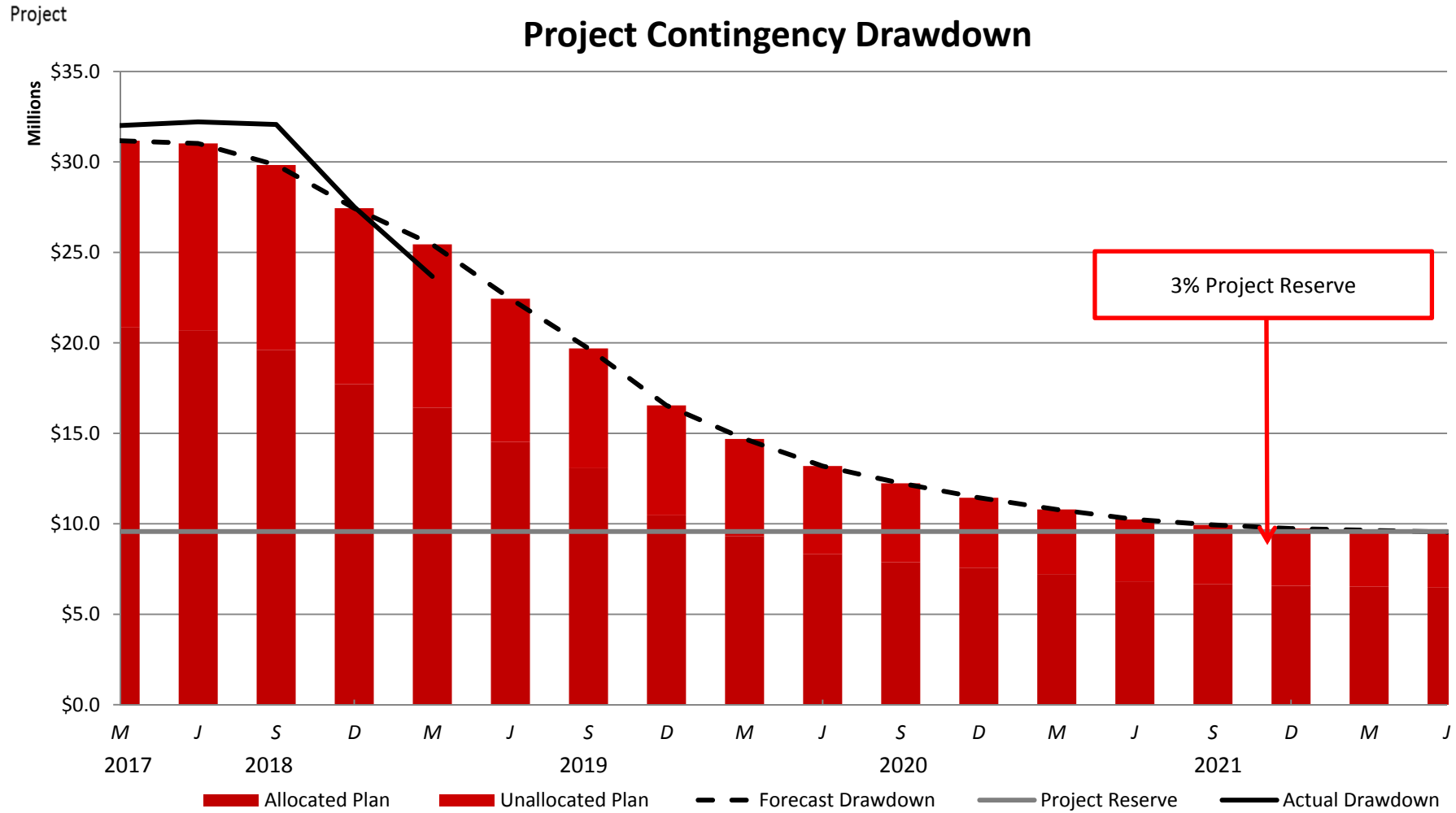
Project Cost Contingency Drawdown

January 2019



The New Blue

Project Cost Contingency Drawdown



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