



Board Report

File #: 2019-0207, File Type: Oral Report / Presentation

Agenda Number: 29.

CONSTRUCTION COMMITTEE MAY 16, 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

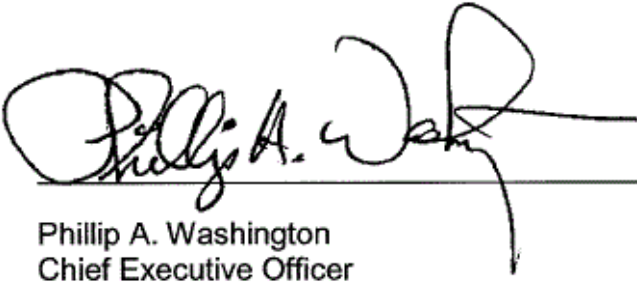
Update report covering the month of May 2019 by the Chief Program Management Officer.

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

May 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 92% complete. Metro issued non-compensable time extension to contractor extending Contract Substantial Completion Milestone to December 2019. The forecast revenue service date is Spring/Summer 2020.
Regional Connector			Project is 57% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 1			Project is 47% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 2			Project is 16% complete and proceeding on schedule and within budget.
Westside Purple Line Extension-Section 3			C1151 Tunnels Contract - Issued Notice to Proceed (NTP) to Frontier-Kemper/Tutor Perini, a Joint Venture on January 15, 2019. Metro received FTA's Letter of No Prejudice for the C1152 Stations, Trackwork, Systems, and Testing Contract on April 18, 2019.
Patsaouras Plaza			Project is 65% complete. Metro has been delayed since April 2018 due to archaeological and Native American issues. With anticipated construction delay of 384 calendar days, a LOP budget increase of \$11.12M will be presented to the Board for approval. Project expected to resume construction May 2019.
Willowbrook/Rosa Parks Station			Package A is 35% complete with exterior paneling work progressing on the Customer Service Building. Structural work is nearly complete at the Mobility Hub Building. Blue Line Station and Mezzanine work continues with pile work. Package B 100% bid package being prepared.
Metro Blue Line Projects			Metro Blue Line south segment construction work is proceeding per schedule. Opening of the south side and closure of the north side scheduled for June 1, 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 73% complete. Segment 4 (Magnolia to SR-134) is 90% complete.
I-5 South: Orange County Line to I-605			Segment 2 (Valley View) is 40% complete. Segment 3 (Rosecrans) is open to traffic. Segment 4 (Imperial) is 95% complete. Segment 5 (Florence) is 78% complete.

May 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 OPERATION	Spring/Summer 2020	Spring/Summer 2020

- Overall Project Progress is 92% 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 .
- Contractor addressing open sidewalk and street punch list items along alignment.



Installing electrical conduit in underground tunnel



Ribbon cutting ceremony for Southwestern Yard on April 3

May 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

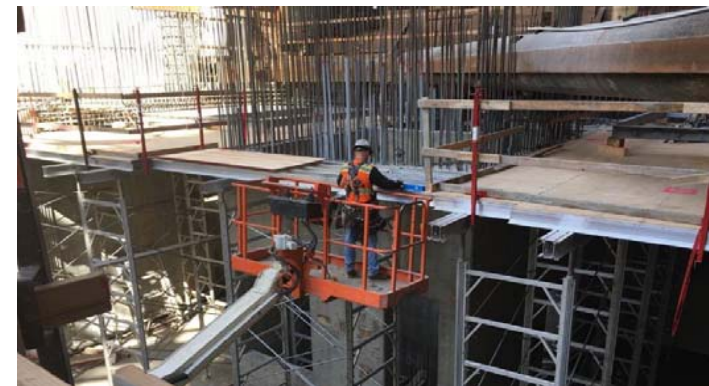
OK SCHEDULE

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

- Overall Project Progress is 57% complete.
- Underground:** Began work on Floating Slab Track curbs, and HDPE (waterproofing) installation of Sequential Excavation Method (SEM) Cavern in preparation for final liner concrete.
- Little Tokyo/Arts District Station, WYE and 1st Street:** Excavation and related support of excavation, utility protection continues at WYE and 1st Street; and structural concrete operations on station walls continue.
- Historic Broadway Station:** Structural concrete continues with exterior walls in station entrance and 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. Concrete operations between 4th and 5th Streets continue.



HDPE installation at SEM Cavern headwall



Concourse level concrete pour prep at Grand Ave Arts/Bunker Hill Station

May 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.

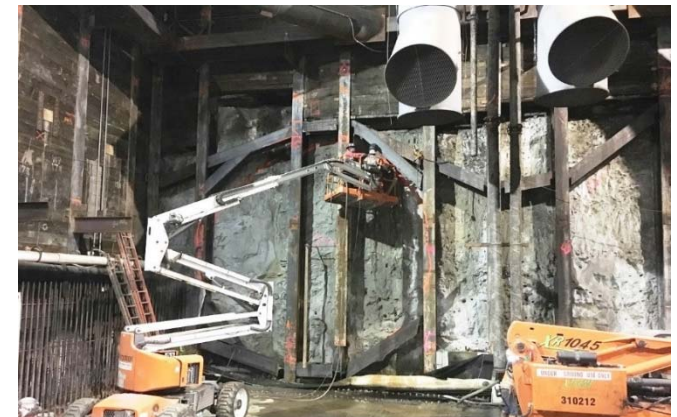
SCHEDULE

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

- Overall Project Progress is 47% complete.
- Wilshire/Western Retrieval Shaft:** Preparation for Tunnel Boring Machine (TBM) arrival in June 2019, including framing installation for tunnel eyes. Gantry crane installation is anticipated in May 2019.
- Wilshire/La Brea Station:** Rebar, embedded conduit and pipe sleeve installation at concourse slab continues with the first placement of concrete scheduled at end of April 2019. Tunnel ring installation for Reach 2 is underway.
- Wilshire/Fairfax Station:** HDPE placement is underway; placement of the protection slab is scheduled in April 2019 with installation of invert rebar to follow.
- Wilshire/La Cienega Station:** Level C strut installation is complete. Level D strut installation is scheduled to start in April 2019. Bottom of excavation is anticipated to be reached in August 2019.
- Reach 1 TBM Progress (W/LB to W/W):** TBM #1 – 6,517 ft. or 67%; TBM #2 – 5,548 ft. or 57% as of April 9, 2019.



Installation of Conduit at Wilshire/La Brea Station



Reach 2 Tunnel Ring Installation at Wilshire/La Brea Station

May 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



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 OPERATION	Winter 2026 (FFGA)	Summer 2025

- Overall Project progress is 16% complete.
- Final design progress is 92% complete.
- **Century City Constellation**
 - Installation of all thirty (30) deck beams for the Tunnel Boring Machine (TBM) launch box have been completed as of April 2, 2019.
 - Installation of the temporary street deck panels for the TBM launch box are ongoing.
 - Excavation of TBM launch box has commenced and is ongoing.
 - Santa Monica bus layover construction is ongoing with an anticipated completion in May 2019.
 - Civil work for LADWP Power and AT&T was completed in December 2018. Cable pulling and splicing for both utilities will continue through November 2019.
- **Wilshire/Rodeo**
 - Potholing for underground utilities by the contractor has commenced and is ongoing.
 - Demolition of north staging yard properties was completed on April 2, 2019.



TBM Launch Box Overview



Installed Deck Beams

May 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*	\$3,611M	\$3,611M

* Includes Board approved LOP budget plus finance costs.



SCHEDULE

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

- C1151 Tunnel Contract – Started detailed design, stakeholder coordination and mobilization planning.
- C1152 Stations, Trackwork, Systems, and Testing Contract – Metro received FTA’s Letter of No Prejudice on April 18, 2019.
- C1153 Advanced Utility Relocations (AUR) Contract – Overall progress is over 90% complete, power work is complete and only water remains.
- Joint trench for combining Verizon and Frontier telecommunications started in February 2019 and is ongoing.



Slurry Backfilling Laterals on Wilshire Blvd.



Water Line Excavation and Potholing

May 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	\$50.9M

 SCHEDULE		
	<u>Current</u>	<u>Forecast</u>
SUBSTANTIAL COMPLETION	March 2020	May 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 in May 2019.
- Archaeological investigation and treatment field work was completed on April 12, 2019.
 - To date, 37 archaeological features including human remains were discovered.
- Construction suspension of 384 calendar day requires Life of Project (LOP) budget increase of \$11,120,000, to be presented in a separate Board item for approval.
 - This LOP budget request includes global settlement negotiations with contractor.



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: Customer Service building is moving beyond framing with exterior paneling commencing. Major utility bottleneck has cleared and will work towards May completion. Mobility Hub Building structural work nearing completion.
- Package C: Demolition on Blue Line Platform and Mezzanine in progress while structural pile/column work is in progress.
- Package B: Final coordination of 100% documents in progress.



Exterior sheathing at Customer Service Building



Utility Work



Structural Steel Installation for Mobility Hub



Pile work at Blue Line Platform

May 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



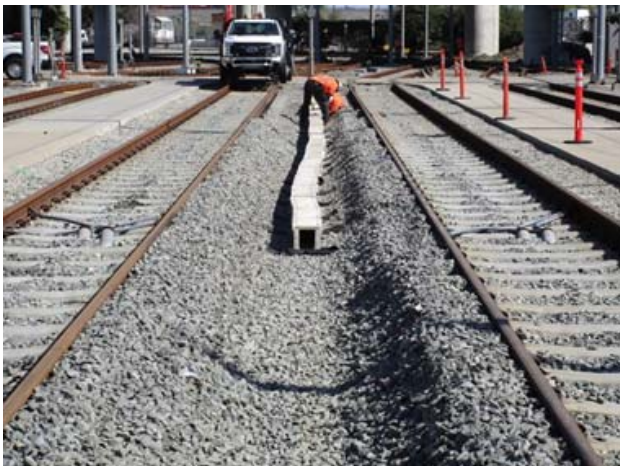
Metro 9

THE NEW BLUE CLOSURE

 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

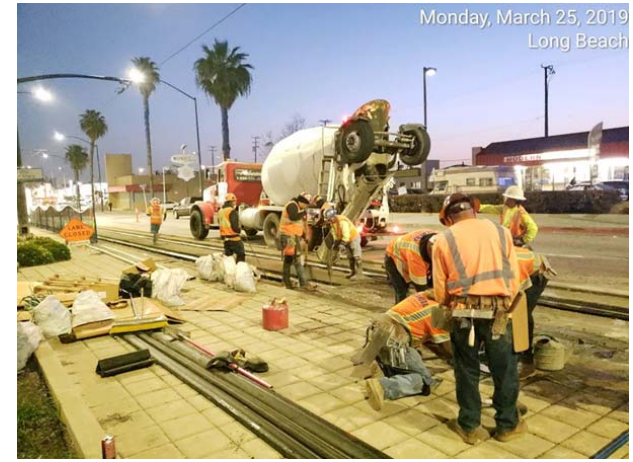
- Rail replacement work is 90% complete, Overhead Catenary System (OCS) work is 80% complete.
- Compton new interlocking Local Field Acceptance Tests (LFAT) is continuing.
- Painting of the OCS and light poles is continuing.
- Train Control work in Division 11 started.
- Re-opening of the south side and closure of the north side scheduled for Saturday, June 1, 2019.



New conduit trough in Division 11



Train Control LFAT continuing



Pouring Concrete for new track construction

May 2019



On target



Possible problem



Major issue

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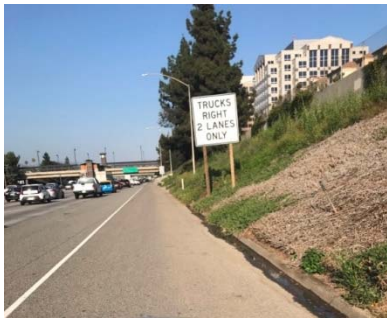
Metro 10

I-210 BARRIER REPLACEMENT PROJECT

BUDGET		
	<u>Current</u>	<u>Forecast</u>
TOTAL COST	\$11.08M	\$22.54M
	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

- Completed traffic micro-simulation studies to quantify the traffic delays during construction which are expected to be beyond the normal acceptable range and providing 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. Draft document for Project 1 submitted to Caltrans.
- Project 1: Segment from Michillinda to Iconic Bridge – Completed Surveying. Informed the Cities of Pasadena and Arcadia about the project. Continuing environmental studies and final design concurrently.
- Project 2: Segment from west end of the project to Michillinda – Completed traffic micro-simulation studies.



Newly Installed Caltrans Freeway Sign



Incident in 2014



Newly Installed Speed Limit Sign

May 2019



On target



Possible problem



Major issue

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Metro 11

I-5 Construction Projects (By Caltrans)



May 2019

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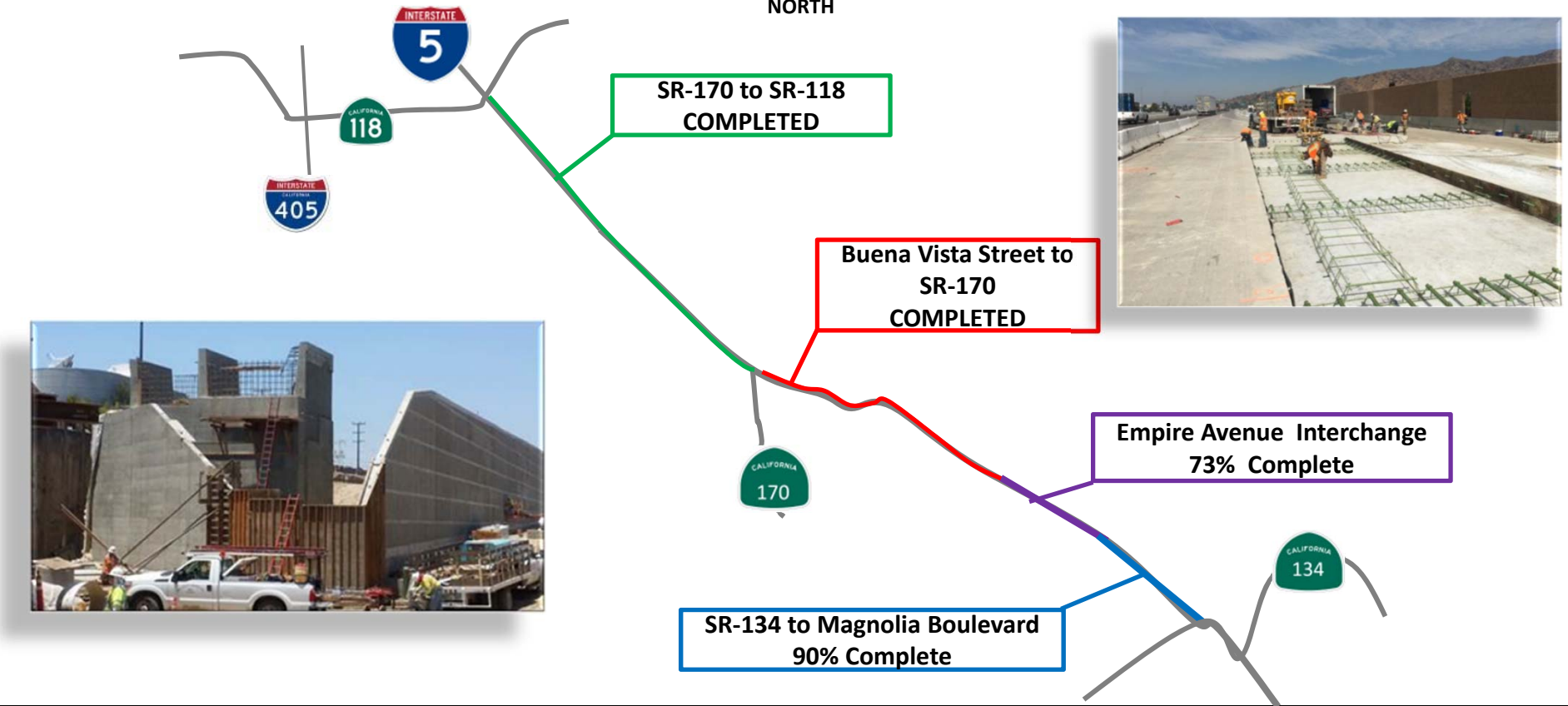
Metro 12

I-5 NORTH: SR 118 TO SR 134



⚠ BUDGET		
TOTAL COST	Current \$880.9M	Forecast TBD

🟡 SCHEDULE		
ANTICIPATED PROJECT COMPLETION	Current Spring 2022	Forecast Summer 2022



May 2019



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



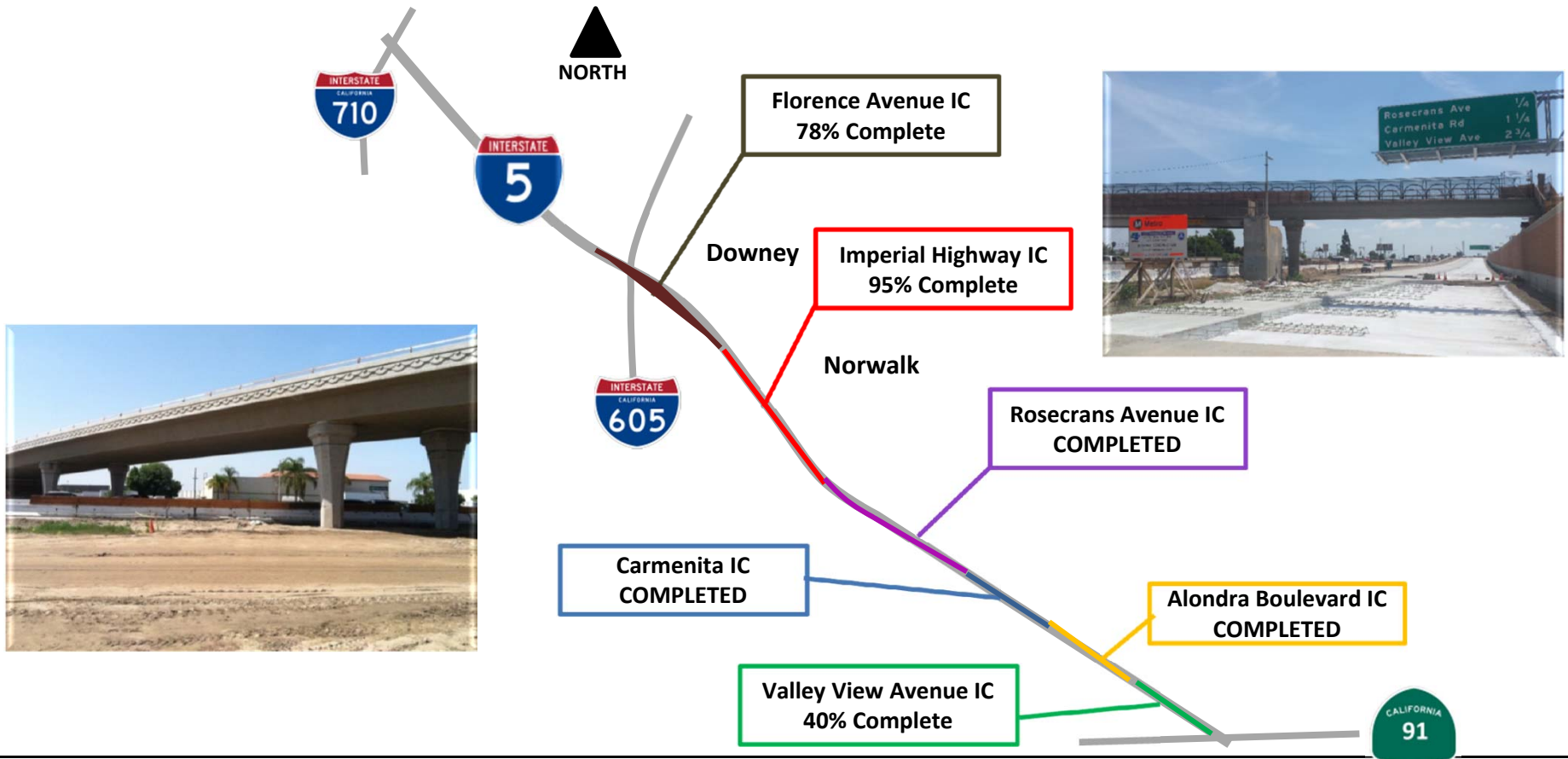
Metro 13

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



OK BUDGET		
	Current	Forecast
TOTAL COST	\$1.888B	TBD

◇ SCHEDULE		
	Current	Forecast
ANTICIPATED PROJECT COMPLETION	Summer 2022	Fall 2022



May 2019

Construction Committee

Los Angeles County Metropolitan Transportation Authority



On target



Possible problem



Major issue

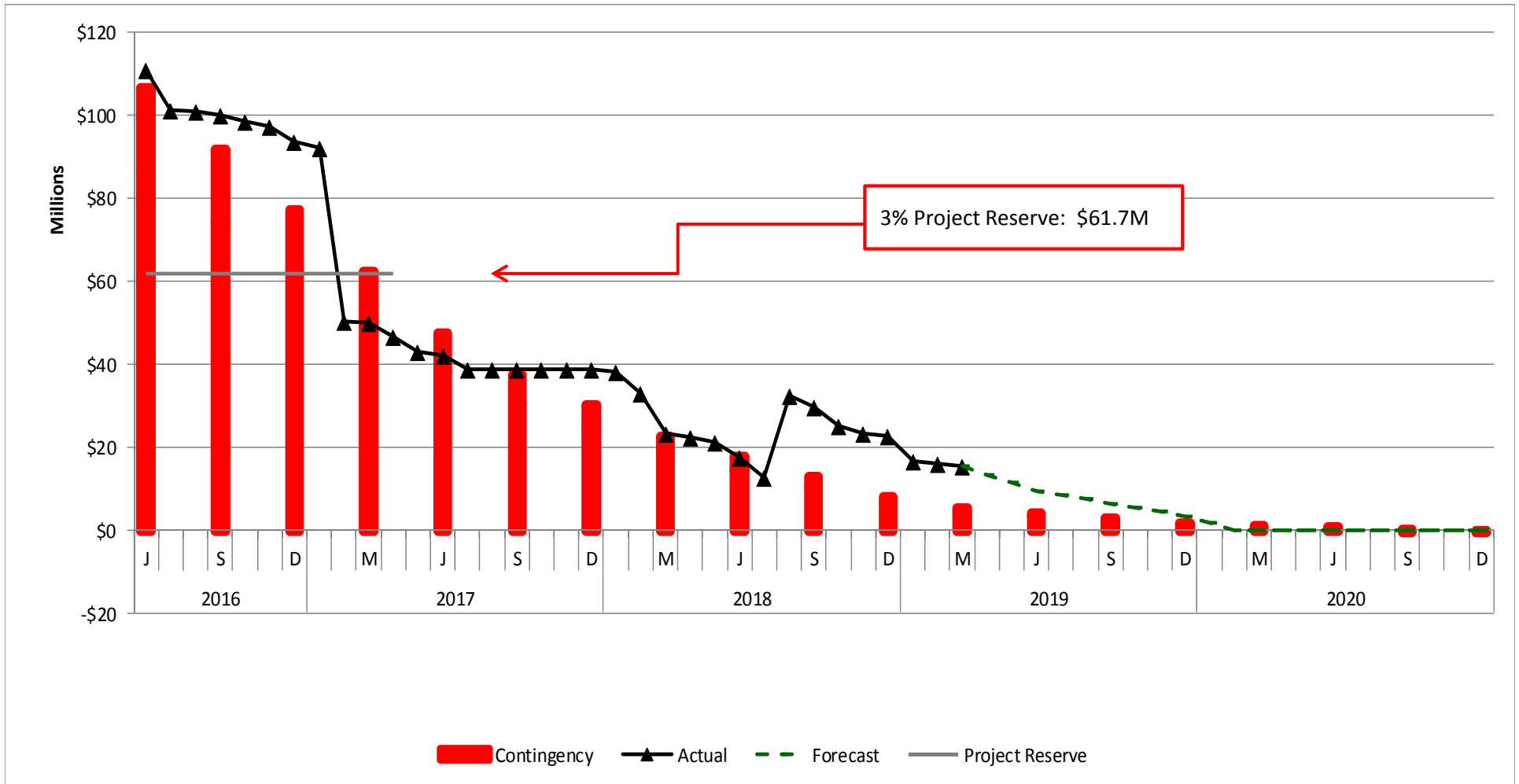


Metro 14

Crenshaw/LAX Transit Project

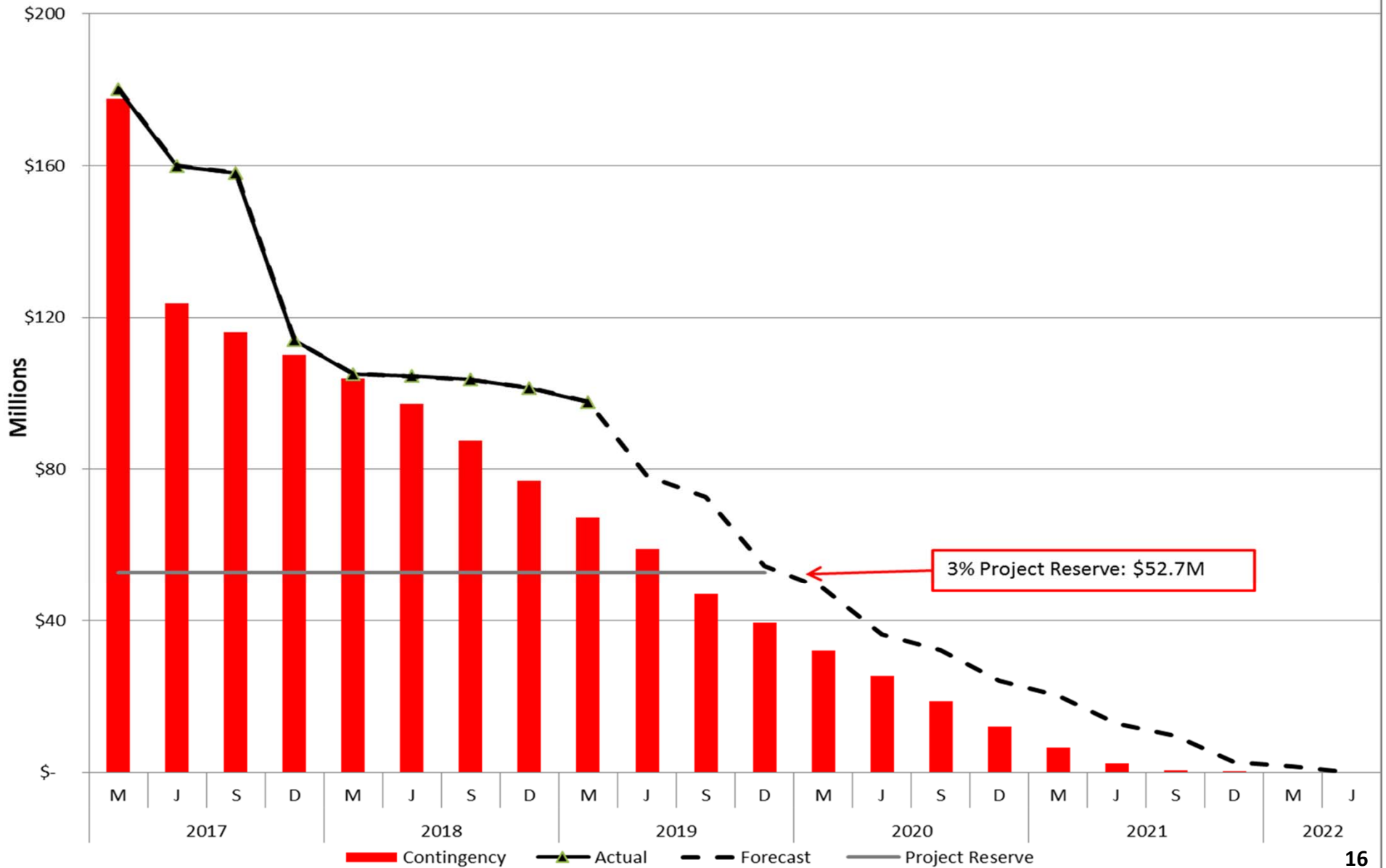
Project Cost Contingency Drawdown

March 2019



Regional Connector

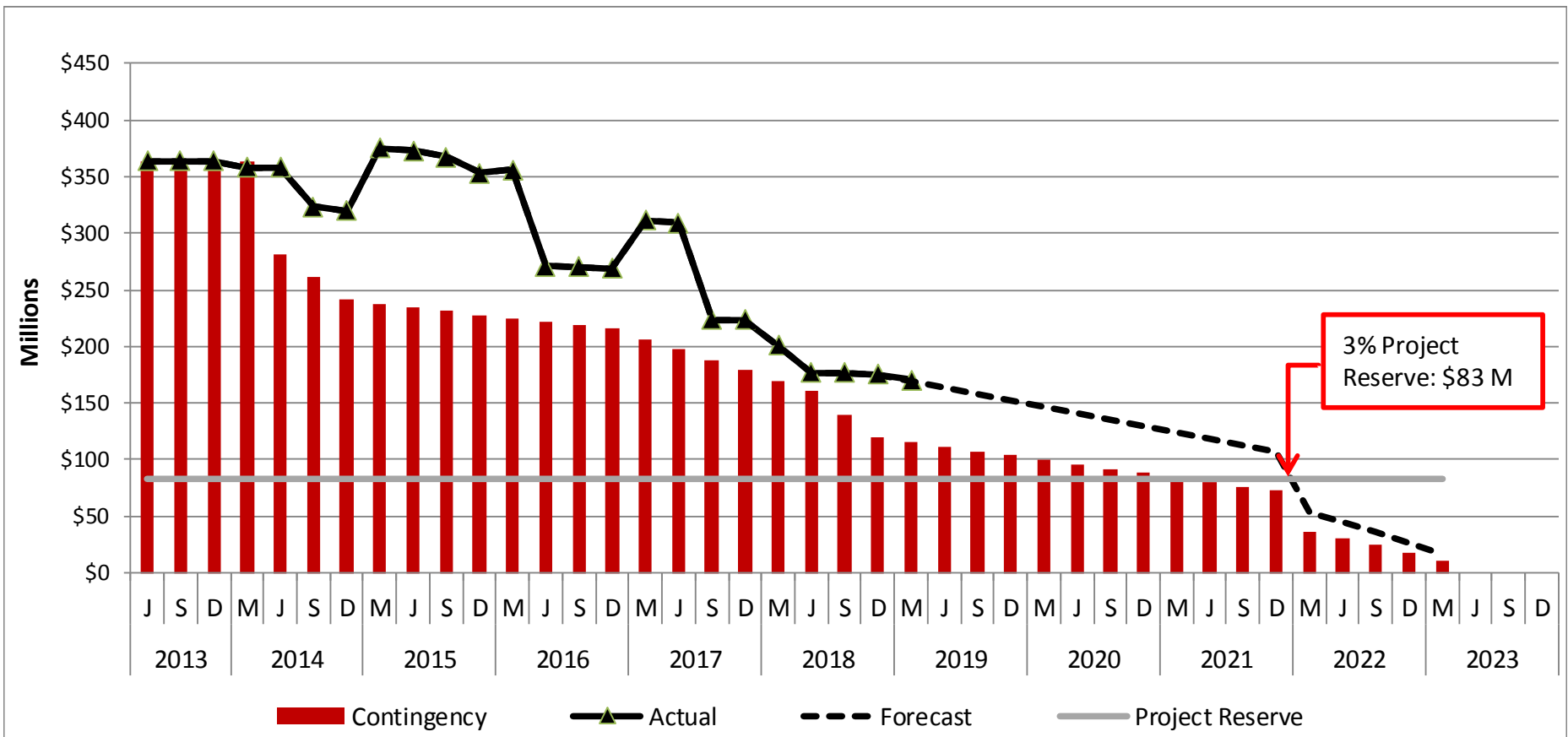
Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 1

Project Cost Contingency Drawdown

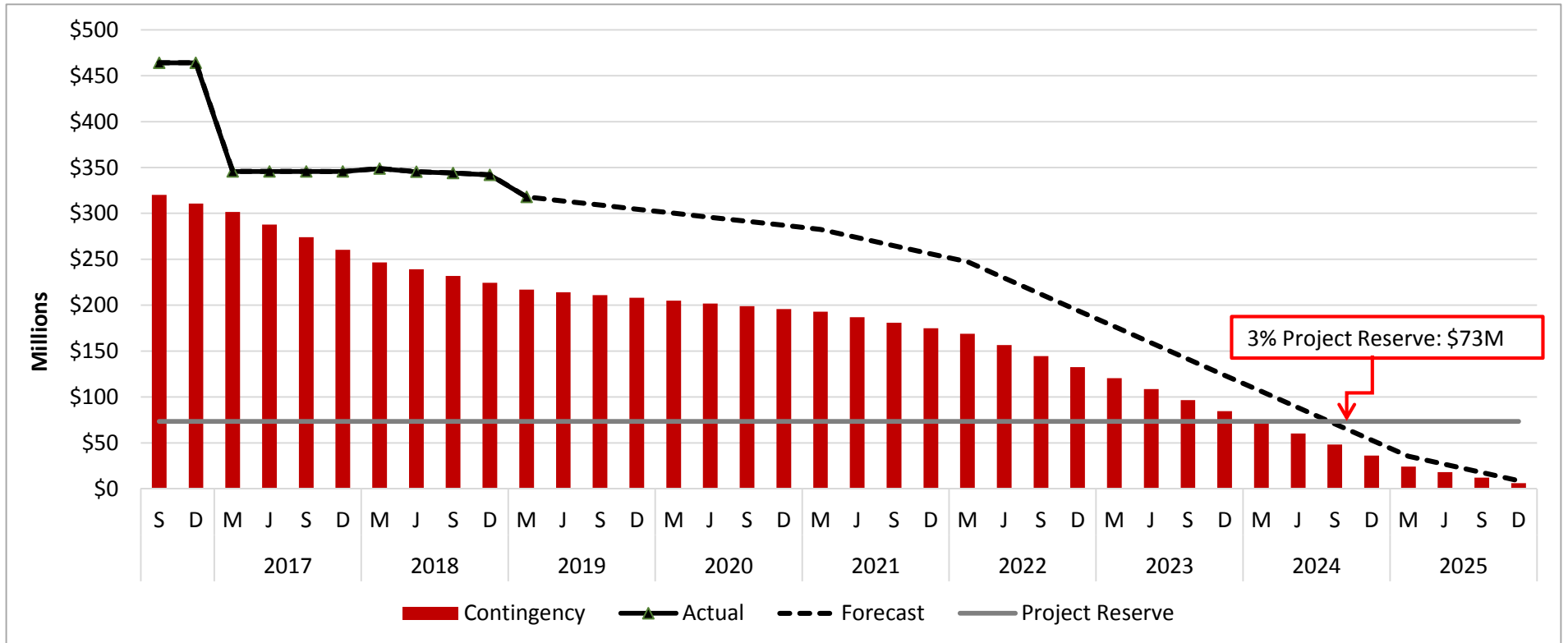
March 2019



Westside Purple Line Extension – Section 2

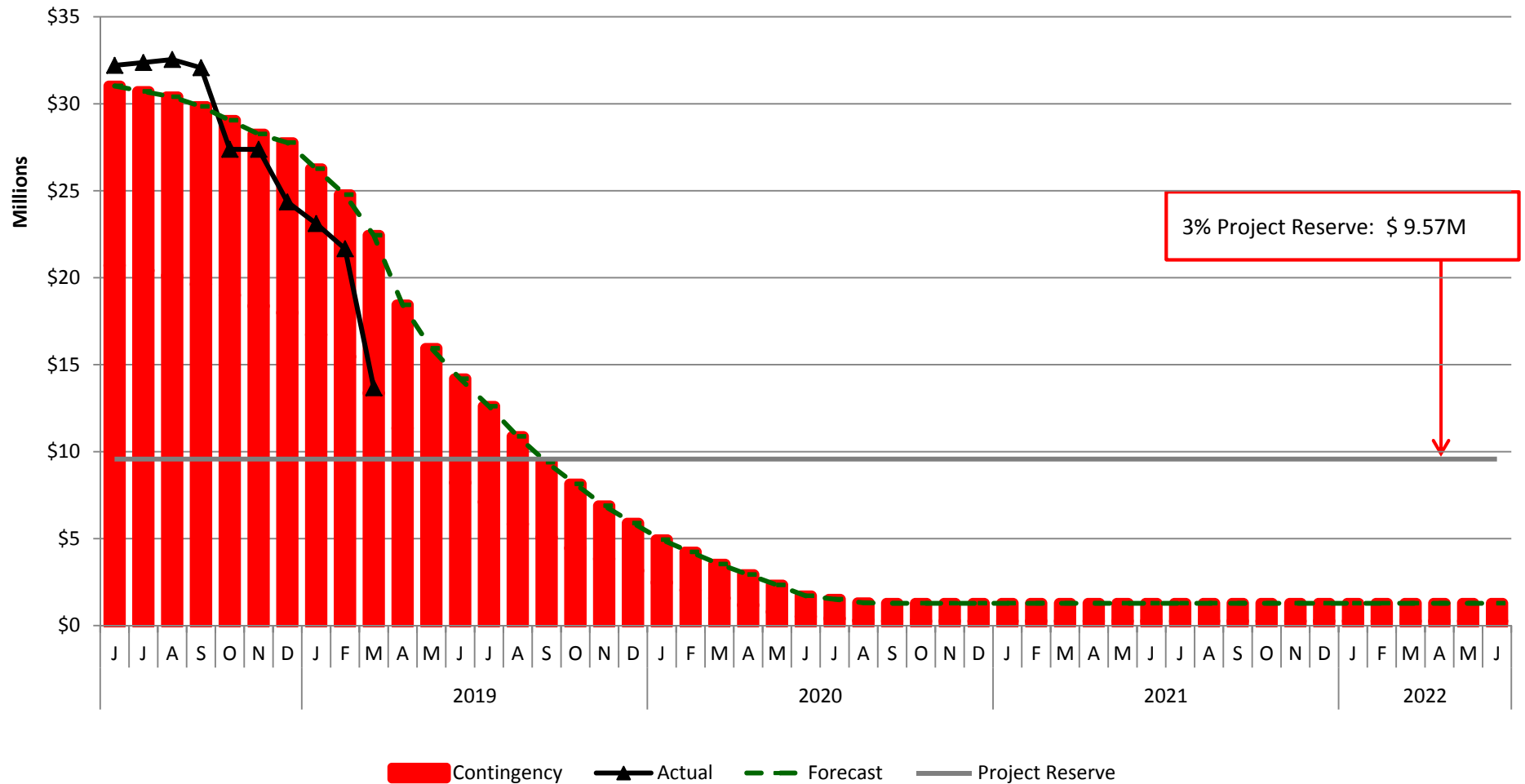
Project Cost Contingency Drawdown

March 2019



New Blue Projects

Project Cost Contingency Drawdown



- Blue Line Signal Rehabilitation
- Blue Line Track and System Refurbishment
- Willowbrook/Rosa Parks Station