

Metro

*Los Angeles County Metropolitan Transportation Authority
One Gateway Plaza
3rd Floor Board Room
Los Angeles, CA*



Agenda - Final

Thursday, January 18, 2018

10:15 AM

**One Gateway Plaza, Los Angeles, CA 90012,
3rd Floor, Metro Board Room**

Construction Committee

James Butts, Chair

**Jacquelyn Dupont-Walker, Vice Chair*

Robert Garcia

Janice Hahn

Sheila Kuehl

Carrie Bowen, non-voting member

Phillip A. Washington, Chief Executive Officer

**Via telephone:*

Sheraton Downtown Columbia

1400 Main Street

Columbia, South Carolina, 29201

METROPOLITAN TRANSPORTATION AUTHORITY BOARD RULES
(ALSO APPLIES TO BOARD COMMITTEES)

PUBLIC INPUT

A member of the public may address the Board on agenda items, before or during the Board or Committee's consideration of the item for one (1) minute per item, or at the discretion of the Chair. A request to address the Board should be submitted in person at the meeting to the Board Secretary. Individuals requesting to speak on more than three (3) agenda items will be allowed to speak up to a maximum of three (3) minutes per meeting. For individuals requiring translation service, time allowed will be doubled.

Notwithstanding the foregoing, and in accordance with the Brown Act, this agenda does not provide an opportunity for members of the public to address the Board on any Consent Calendar agenda item that has already been considered by a Committee, composed exclusively of members of the Board, at a public meeting wherein all interested members of the public were afforded the opportunity to address the Committee on the item, before or during the Committee's consideration of the item, and which has not been substantially changed since the Committee heard the item.

The public may also address the Board on non-agenda items within the subject matter jurisdiction of the Board during the public comment period, which will be held at the beginning and/or end of each meeting. Each person will be allowed to speak for up to three (3) minutes per meeting and may speak no more than once during the Public Comment period. Speakers will be called according to the order in which the speaker request forms are received. Elected officials, not their staff or deputies, may be called out of order and prior to the Board's consideration of the relevant item.

In accordance with State Law (Brown Act), all matters to be acted on by the MTA Board must be posted at least 72 hours prior to the Board meeting. In case of emergency, or when a subject matter arises subsequent to the posting of the agenda, upon making certain findings, the Board may act on an item that is not on the posted agenda.

CONDUCT IN THE BOARD ROOM - The following rules pertain to conduct at Metropolitan Transportation Authority meetings:

REMOVAL FROM THE BOARD ROOM The Chair shall order removed from the Board Room any person who commits the following acts with respect to any meeting of the MTA Board:

- a. Disorderly behavior toward the Board or any member of the staff thereof, tending to interrupt the due and orderly course of said meeting.
- b. A breach of the peace, boisterous conduct or violent disturbance, tending to interrupt the due and orderly course of said meeting.
- c. Disobedience of any lawful order of the Chair, which shall include an order to be seated or to refrain from addressing the Board; and
- d. Any other unlawful interference with the due and orderly course of said meeting.

INFORMATION RELATING TO AGENDAS AND ACTIONS OF THE BOARD

Agendas for the Regular MTA Board meetings are prepared by the Board Secretary and are available

DISCLOSURE OF CONTRIBUTIONS

The State Political Reform Act (Government Code Section 84308) requires that a party to a proceeding before an agency involving a license, permit, or other entitlement for use, including all contracts (other than competitively bid, labor, or personal employment contracts), shall disclose on the record of the proceeding any contributions in an amount of more than \$250 made within the preceding 12 months by the party, or his or her agent, to any officer of the agency, additionally PUC Code Sec. 130051.20 requires that no member accept a contribution of over ten dollars (\$10) in value or amount from a construction company, engineering firm, consultant, legal firm, or any company, vendor, or business entity that has contracted with the authority in the preceding four years. Persons required to make this disclosure shall do so by filling out a "Disclosure of Contribution" form which is available at the LACMTA Board and Committee Meetings. Failure to comply with this requirement may result in the assessment of civil or criminal penalties.

ADA REQUIREMENTS

Upon request, sign language interpretation, materials in alternative formats and other accommodations are available to the public for MTA-sponsored meetings and events. All requests for reasonable accommodations must be made at least three working days (72 hours) in advance of the scheduled meeting date. Please telephone (213) 922-4600 between 8 a.m. and 5 p.m., Monday through Friday. Our TDD line is (800) 252-9040.

LIMITED ENGLISH PROFICIENCY

A Spanish language interpreter is available at all Board Meetings. Interpreters for Committee meetings and all other languages must be requested 72 hours in advance of the meeting by calling (213) 922-4600 or (323) 466-3876.



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Español

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ภาษาไทย

Tiếng Việt

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General Information/Rules of the Board - (213) 922-4600

Internet Access to Agendas - www.metro.net

TDD line (800) 252-9040

NOTE: ACTION MAY BE TAKEN ON ANY ITEM IDENTIFIED ON THE AGENDA

CALL TO ORDER**ROLL CALL**

30. **SUBJECT: PROGRAM MANAGEMENT MAJOR PROJECT STATUS REPORT** [2017-0837](#)

RECOMMENDATION

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

Attachments: [Attachment A - Program Management Major Project Status Report - January 2018.pdf](#)

31. **SUBJECT: BOARD DELEGATED AUTHORITY FOR LOP BUDGET MANAGEMENT** [2017-0827](#)

RECOMMENDATION

CONSIDER:

- A. RECEIVING AND FILING report on the Board delegated authority to the Chief Executive Officer (CEO) one-year pilot program authorizing negotiation and execution of project related agreements, including contract modifications, up to the Life-of-Project (LOP) budgets on Crenshaw/LAX, Regional Connector, Westside Purple Line Extension Section1 and Section 2 Projects; and
- B. AUTHORIZING the Chief Executive Officer to negotiate and execute project related agreements, including contract modifications, up to the authorized Life-of-Project Budget on all transit and regional rail capital projects program-wide.

32. **SUBJECT: DIVISION 20 PORTAL WIDENING TURNBACK PROJECT** [2017-0828](#)

RECOMMENDATION

CONSIDER:

- A. AUTHORIZING the Chief Executive Officer to execute Contract Modification No. 4 to Contract No. AE66758000 with T.Y. Lin International (TYLIN) to provide additional final design engineering services for the Division 20 Portal Widening Turnback Project, in an amount not-to-exceed \$3,449,949, increasing contract value from \$12,225,661 to \$15,675,610;
- B. AUTHORIZING an increase in Contract Modification Authority from \$2,053,132 to \$3,053,132 for potential design modifications due to Third Party coordination and extended design services during construction; and

- C. AMEND the FY18 budget for an amount not to exceed \$25M to support recommendations A, B and for the acquisition of real property and related costs including loss of good will and relocation for properties required for the Division 20 Portal Widening Turnback Project.

Attachments: [Attachment A - Procurement Summary](#)
[Attachment B - Contract Modification/Change Log.pdf](#)
[Attachment C - DBE Summary](#)
[Attachment D - Revised Project Layout](#)

Adjournment

GENERAL PUBLIC COMMENT

Consideration of items not on the posted agenda, including: items to be presented and (if requested) referred to staff; items to be placed on the agenda for action at a future meeting of the Committee or Board; and/or items requiring immediate action because of an emergency situation or where the need to take immediate action came to the attention of the Committee subsequent to the posting of the agenda.



Board Report

File #: 2017-0837, **File Type:** Oral Report / Presentation

Agenda Number: 30.

CONSTRUCTION COMMITTEE JANUARY 18, 2018

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

ACTION: RECEIVE ORAL REPORT

RECOMMENDATION

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

DISCUSSION

- A. Update report covering the month of January 2018 by the Chief Program Management Officer; and
- B. At the January 2017 meeting, the Board authorized a one-year pilot program authorizing the CEO to negotiate and execute project-related agreements, including contract modification(s) up to the authorized Life of Project budget, to streamline project management of the four (4) major transit corridor projects (Crenshaw/LAX, Regional Connector, Westside Purple Line Extension Section 1 and 2 projects). In addition, staff was directed to provide monthly reports, that would include any pending project-related agreements, change orders/contract modifications and any significant changes to contingency.

Pursuant to the Board motion, staff has developed and begun reporting on cost contingency and contract change activity starting in the February 2017 Monthly Update to the Construction Committee. This new report includes a project cost contingency drawdown curve and allows the Board to see project-related and change activity. This report can be found in Attachment A.

At the conclusion of the one-year pilot program in January 2018, staff will report back to the Board on the time saved as result of this pilot program, and any lessons learned, and recommendations for the Board review and further direction.

ATTACHMENTS

Attachment A - Program Management Major Project Status Report - January 2018

Prepared by:

- **Master Schedule** - Julie Owen, DEO, Project Mgmt., (213) 922-7313
- **Crenshaw/LAX** - Charles Beauvoir, EO Project Mgmt., (213) 903-4113
- **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** - Michael McKenna, EO Project Mgmt., (213) 312-3132
- **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** - Androush Danielians, EO Project Engr (Interim)., (213) 922-7598
- **Presentation** - Yohana Jonathan, Departmental System Analyst, (213) 922-7592

Program Management Major Project Status Report

Presented By

Richard Clarke

Chief Program Management Officer

















January 2018

Construction Committee

Los Angeles County Metropolitan Transportation Authority



PROJECT BUDGET & SCHEDULE STATUS SUMMARY CHART

Project	Cost Performance	Schedule Performance	Comments
Crenshaw/LAX			The remaining cost contingency is below 2% of the total project budget (\$38 million in contingency remains). Contractor is 20 days behind schedule and is required to mitigate schedule to maintain planned revenue service in October 2019.
Regional Connector			Project is proceeding consistent with schedule forecast and revised LOP budget as approved by the Board in January 2017.
Westside Purple Line Extension-Section 1			Project is 25% complete, no significant issues. Project schedule reflects 63 days of positive float per Contract Modification 45 (Advancement of La Brea Excavation).
Westside Purple Line Extension-Section 2			Issued Notice to Proceed (NTP) to Tutor Perini/O&G a JV (TPOG) on April 26, 2017. Project is 5% complete with no significant issues.
Westside Purple Line Extension-Section 3			Requested entry into the Engineering Phase from the FTA in April 2017. Sent request for Letter of No Prejudice (LONP) for the tunnel contract to FTA on September 15, 2017. Awaiting FTA approval.
Patsaouras Plaza			Project 46% complete with approved substantial completion date of December 2018.
Willowbrook/Rosa Parks Station			Design activities progressed to 100% complete and in final reviews.
Metro Blue Line Projects			Pedestrian Swing Gate project 87% complete. MBL Signal Rehab project has just started at 10% completion.

January 2018



On target



Possible problem



Major issue



Metro 2

Construction Committee

Los Angeles County Metropolitan Transportation Authority

TRANSIT MASTER SCHEDULE (Page 1 of 2)

TASK filters: Code Cleanup_1, Name contains, Show on Master Schedule, WBS Categories, WBS				* 00 Master Program (By Phase) no contin													29-Nov-17	
Activity Name	PMIS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030			
Transit Projects		01-Mar-07 A	26-Jun-57	7,479,403,650.00														
Environmental		01-Mar-07 A	26-Jun-57	2,419,000,000.00														
North San Fernando Valley BRT Improvements	Cencic	04-Jan-17 A	06-Feb-26	\$180,000,000.00														
North Hollywood to Pasadena BRT	Richmai	30-Jan-15 A	02-May-25	\$267,000,000.00														
Orange Line Grade Separations	Patel	23-May-16 A	30-Jun-25	\$286,000,000.00														
East San Fernando Valley Transit Corridor	Davis	11-Oct-10 A	05-Dec-28	1,331,000,000.00														
Vermont BRT Corridor	Cencic	30-Jan-15 A	05-Oct-29	\$425,000,000.00														
Crenshaw Northern Extension	Moosavi	29-Dec-17	17-Jun-47	2,240,000,000.00														
West Santa Ana Transit Corridor	Pan	01-Oct-09 A	05-Jul-41	4,000,000,000.00														
Sepulveda Phase 1 - Express Lanes	Wong	01-Nov-17	13-Jan-28	\$260,000,000.00														
Sepulveda Phase 3 - Westwood to LAX	Mieger	26-Apr-17 A	26-Jun-57	3,865,000,000.00														
South Bay Green Line Ext. Crenshaw Blvd in Torr	Khanna	23-Mar-17 A	19-Jun-31	\$891,000,000.00														
Sepulveda Phase 2 - Transit Corridor	Zelmer	26-Apr-17 A	06-Jan-37	5,674,000,000.00														
Eastside Transit Corridor Phase 2 (1 Align)	Liu	01-Mar-07 A	08-Nov-35	3,000,000,000.00														
Design		04-Oct-10 A	28-Apr-27	2,030,270,758.00														
Airport Metro Connector	Zelmer	04-Oct-10 A	07-Jun-23	\$623,400,000.00														
Gold Line Foothill Extension Phase 2B	Meade	02-Oct-13 A	28-Apr-27	1,406,870,758.00														
Procurement		29-Feb-16 A	03-Sep-26	3,478,000,000.00														
Purple Line Extension Section 3	McKenna	29-Feb-16 A	03-Sep-26	3,478,000,000.00														
Construction Contract		01-Jun-07 A	29-Aug-25	9,552,132,892.00														
Crenshaw/LAX Transit Corridor	Beauvoir	01-Jul-09 A	30-Oct-19	2,058,000,000.00														
Regional Connector Transit Corridor	Baker	26-Jan-09 A	10-Dec-21	1,810,132,892.00														
Purple Line Extension Section 1	Cohen	01-Jun-07 A	29-Nov-23	3,154,300,000.00														
Purple Line Extension Section 2	McKenna	02-Mar-15 A	29-Aug-25	2,529,700,000.00														
Transit Facilities		07-May-15 A	10-Apr-24	\$577,546,000.00														

Planning / Environmental
 ROW / Utility Relocation
 DB Construction
 System Testing
 Not Funded (Env/ROW/Test)

Design / Engineering
 Adv / Award
 DBB Construction
 Not Funded (Eng/Bid/Con)

TRANSIT MASTER SCHEDULE (Page 2 of 2)

TASK filters: Code Cleanup_1, Name contains, Show on Master Schedule, WBS Categories_WBS				* 00 Master Program (By Phase) no contin													29-Nov-17	
Activity Name	PIMS Project Manager	Start	Finish	Original Budget	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
Design		07-May-15 A	10-Apr-24	\$577,546,000.00														
Willowbrooks/Rosa Parks Station Improvement	Lindholm	07-May-15 A	15-Jul-20	\$102,546,000.00														
Div 20 Portal/Turnback	Meade	16-May-16 A	10-Apr-24	\$475,000,000.00														
Regional Rail Projects	Owens	02-Sep-13 A	20-May-27	3,099,400,000.00														
Environmental	Owens	01-Dec-14 A	20-May-27	2,662,000,000.00														
Link Union Station	Owens	01-Dec-14 A	20-May-27	2,662,000,000.00														
Design	Owens	01-Apr-15 A	02-May-22	\$422,400,000.00														
Brighton to Roxford Double Track	Owens	01-Sep-15 A	22-Nov-21	\$186,600,000.00														
Lone Hill to CP White	Owens	03-May-16 A	02-May-22	\$82,000,000.00														
Rosecrans & Marquardt Grade Separation	Owens	01-Apr-15 A	19-Apr-21	\$153,800,000.00														
Construction Contract	Owens	02-Sep-13 A	01-Jun-18	\$15,000,000.00														
Bob Hope Airport Station	Owens	02-Sep-13 A	01-Jun-18	\$15,000,000.00														
Bus Facilities Projects	Gurrola	31-Mar-14 A	15-Jan-19	\$0.00														
Construction Contract	Gurrola	31-Mar-14 A	15-Jan-19	\$0.00														
Patsouras Plaza	Gurrola	31-Mar-14 A	15-Jan-19	\$0.00														
State of Good Repair/Improvements		01-Jul-13 A	31-Mar-21	\$180,999,946.00														
Design	Danielans	13-Jun-16 A	31-Mar-21	\$11,078,366.00														
210 Freeway Barrier Rail	Danielans	13-Jun-16 A	31-Mar-21	\$11,078,366.00														
Procurement	Wei	21-Sep-15 A	28-May-20	\$118,990,580.00														
MBL Resignaling	Wei	21-Sep-15 A	28-May-20	\$118,990,580.00														
Construction Contract		01-Jul-13 A	30-Mar-18	\$50,931,000.00														
Pershing Sq. Esc. Replace & New Canopy Project	Patel	11-May-15 A	31-Aug-17 A	\$20,756,000.00														
MBL Ped Safety Enhancement At-Grade Crossing	Chong	01-Jul-13 A	30-Mar-18	\$30,175,000.00														

Planning / Environmental
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 Adv / Award
 DBB Construction
 Not Funded (Eng/Bld/Con)

HIGHWAY MASTER SCHEDULE (Page 1 of 2)

* 00 Hwy Master Program Schedule (By Pha)					12-Dec-17																			
Activity Name	Project Manager	Start	Finish	Latest Estimate	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Highway Projects		01-Jan-06 A	01-Jul-07	\$31,252,027,000.00																				
Environmental		02-Jan-08 A	01-Jul-07	\$26,237,060,000.00																				
SR-138 Corridor Improvement Project	Ansari	01-Apr-13 A	03-Feb-28	\$744,000,000.00																				
High Desert Corridor	Panucco	10-Sep-10 A	01-Jul-07	\$11,451,000,000.00																				
I-710 South (Phase 1)	Chaves	02-Jan-08 A	01-Nov-29	\$3,211,240,000.00																				
I-710 South (Phase 2)	Chaves	02-Jan-08 A	28-Jun-41	\$4,816,860,000.00																				
SR-57/SR-60 Interchange Improvements	Jong	02-Jul-18	31-May-29	\$770,000,000.00																				
I-5 Corridor Improvements (I-605 to I-710)	Chaves	02-Jan-19	30-Jun-42	\$1,105,060,000.00																				
I-105 Express Lane from I-405 to I-605	Amini	01-May-17 A	27-Jun-29	\$175,000,000.00																				
I-110 Express Lane Ext South to I-405/I-110 Interchange	Amini	03-Jul-35	29-Jun-46	\$280,000,000.00																				
I-605 Interchange Improvements	Various	01-Jun-18 A	01-Feb-30	\$1,343,800,000.00																				
I-605/SR-91 Interchange Improvements	Various	01-Jun-18 A	26-Sep-24	\$143,300,000.00																				
On-Hold I-710/SR-91 Interchange Improvements	Various	03-Dec-18	23-Jul-29	\$530,000,000.00																				
On-Hold I-605/I-405 Interchange Improvements	Various	02-Jan-19	01-Feb-30	\$670,500,000.00																				
I-605 Corridor Improvements	Panucco	01-Oct-15 A	12-Jun-28	\$2,340,100,000.00																				
Design		01-Dec-11 A	01-Apr-24	\$1,689,200,000.00																				
I-5 North Capacity Enhancement (SR-14 to Parker Rd.)	Antaramian	02-Jul-12 A	01-Feb-23	\$1,620,000,000.00																				
SR-71 Gap Between I-10 to Rio Rancho Rd	Jong	01-Jul-12 A	01-Apr-24	\$295,000,000.00																				
I-710 Early Action Projects	Delgadillo	01-Dec-11 A	13-Apr-21	\$60,200,000.00																				
I-605 Hot Spots	Montez	01-Jun-14 A	05-May-21	\$14,000,000.00																				
Arterial Intersections - Whittier	Montez	02-Jun-14 A	05-May-21	\$5,600,000.00																				
Arterial Intersections - La Mirada	Montez	02-Jun-14 A	30-Mar-20	\$4,300,000.00																				
Arterial Intersections - Cerritos	Montez	01-Jun-14 A	28-Apr-21	\$2,900,000.00																				
Arterial Intersections - Bellflower	Montez	01-Jun-14 A	31-Oct-19	\$1,200,000.00																				
Procurement		15-Dec-10 A	04-Mar-22	\$283,500,000.00																				
I-405 South Bay Curve Improvements	Panucco	02-Jan-14 A	04-Mar-22	\$126,700,000.00																				
I-405 Crenshaw Blvd On/Off Ramp Improvements	Panucco	02-Jan-14 A	04-Mar-22	\$82,700,000.00																				
I-405/I-110 Interchange Improvements	Panucco	02-Jan-14 A	08-Apr-19	\$44,000,000.00																				
Countywide Soundwall Construction	Owen	15-Dec-10 A	17-Feb-21	\$156,800,000.00																				
Package #10 - SR-210 Fair Oaks, Lake and Baldwin to Sant	Owen	02-Sep-14 A	17-Feb-21	\$59,300,000.00																				
Package #11 - SR-170 from 101 to Sherman Way and I-405	Owen	15-Dec-10 A	31-Dec-20	\$97,500,000.00																				

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 Not Funded (Eng/Bid/Con)

HIGHWAY MASTER SCHEDULE (Page 2 of 2)

					* 00 Hwy Master Program Schedule (By Pha)																	12-Dec-17			
Activity Name	Project Manager	Start	Finish	Latest Estimate	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033	FY2034	FY2035	FY2036	
Construction Contract		01-Jan-98 A	01-Aug-22	\$2,742,267,000.00																					
I-5 North Capacity Enhancements SR-134 to SR-118	Subeh	01-Apr-98 A	15-Jun-20	\$853,900,000.00																					
SR-118 to SR-170 (Segment 1A)	Subeh	30-Jul-99 A	15-Jul-16 A	\$219,400,000.00																					
SR-170 to Buena Vista (Segments 2)	Subeh	01-Apr-98 A	16-Dec-15 A	\$94,700,000.00																					
Magnolia to SR-134 (Segment 4)	Subeh	01-Apr-98 A	18-Dec-19	\$137,400,000.00																					
Buena Vista to Magnolia (Segment 3)	Subeh	01-Apr-98 A	15-Jun-20	\$402,400,000.00																					
I-5 South Capacity Enhancements from I-605 to Orange Cour	Gau	01-Jan-98 A	01-Aug-22	\$1,888,367,000.00																					
I-5 Camenita Road Interchange	Gau	01-Jan-01 A	28-Feb-18	\$420,000,000.00																					
Alondra (Segment 1)	Gau	01-Jan-01 A	19-May-16 A	\$114,071,000.00																					
Imperial Highway (Segment 4)	Gau	01-Jan-01 A	26-Jul-19	\$323,285,000.00																					
Shoemaker - Rosecrans (Segment 3)	Gau	01-Jan-98 A	28-Nov-18	\$188,216,000.00																					
Florence (Segment 5)	Gau	01-Jan-01 A	30-Jul-20	\$211,671,000.00																					
Valley View (Segment 2)	Gau	01-Jan-98 A	01-Aug-22	\$631,124,000.00																					

Planning / Environmental
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Design / Engineering
 Adv / Award
 DBB Construction
 Contingency
 Not Funded (Eng/Bid/Con)

CRENSHAW/LAX TRANSIT PROJECT

◇ BUDGET	Current	Forecast
TOTAL COST	\$2,058M	\$2,058M

◇ SCHEDULE	Current	Forecast
REVENUE OPERATION	Oct 2019	Oct 2019

- Overall Project Progress is 75% complete; main line contractor needs to mitigate 20 day delay
- Contractor continues critical track work installation along southern area of alignment
- Contractor continues concrete wall and roof placements for cut-and-cover tunnel and the three underground stations along Crenshaw Boulevard
- The contractor for the Southwestern Yard Maintenance Facility is ahead of schedule



Aerial view of Southwestern Yard Maintenance Facility



Southwestern Yard contractor continues main shop construction

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 7

REGIONAL CONNECTOR TRANSIT PROJECT

OK BUDGET

	Current	Forecast
TOTAL COST	\$1,810M	\$1,810M

* Includes Board approved LOP plus finance costs.

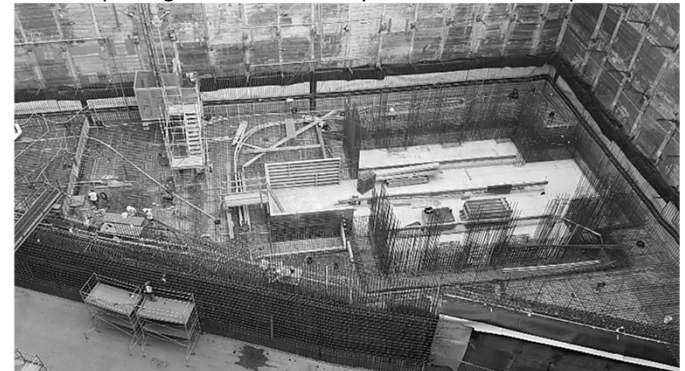
OK SCHEDULE

	Current Dec 2021	Forecast Dec 2021
REVENUE		
OPERATION		

- Overall Project Progress is 43%
- Tunneling: Second bore through future Grand Av Arts/Bunker Hill Station and re-launched for final section of drive to Flower Street
- Little Tokyo/Arts District Station: Under steady state until tunnel operations are completed
- Historic Broadway Station: Underpinning and excavation continues under steady state
- Grand Av Arts/Bunker Hill Station: Permanent invert and wall construction underway
- Flower Street: 6th Street re-opened to traffic; utility relocations, support of excavation, decking and excavation continue



Underpinning activities underway at Historic Broadway Station



Invert pour and rebar installation at Grand Av Arts/Bunker Hill Station

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 8

WESTSIDE PURPLE LINE EXTENSION – SECTION 1

OK BUDGET

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

* Includes Board approved LOP plus Finance costs.

OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	Oct 2024 (FFGA)	Nov 2023

- Overall Project Progress is 25% complete.
- Support of Excavation (SOE) pile installation began at the Wilshire/Western Retrieval Shaft in December 2017. Decking in this area is anticipated to start in February 2018.
- The Wilshire/La Brea Station excavation was completed in November 2017. Station structural concrete activities are scheduled to begin at the end of December 2017.
- At the Wilshire/Fairfax Station, the station excavation and the installation of walers and struts is on-going.
- Street decking at Wilshire/La Cienega Station commenced on the weekend of October 6, 2017. The decking operation is scheduled to complete in January 2018.
- Tunnel Boring Machines (TBMs) were delivered to Los Angeles in December 2017 and will be taken to the contractor's Riverside storage site until needed. Tunneling is planned to start in the summer of 2018.



Mud Mat Installation at Wilshire/La Brea Station



Wilshire/La Cienega Decking Operation

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro[®] 9

WESTSIDE PURPLE LINE EXTENSION – SECTION 2

OK BUDGET

	Current	Forecast
TOTAL COST*	\$2,530M	\$2,530M

* Includes Board approved LOP plus Finance costs.

OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	Dec 2026 (FFGA)	Aug 2025

- Overall project progress is 5% complete.
- Design progress is 44% complete.
- Final Supplemental Environmental Impact Statement (SEIS): Published in the Federal Registry on December 1, 2017.
- Century City Constellation: Southern California Gas (SCG) completed work in November 2017. AT&T and LADWP (Power) utility relocations are underway.
- Wilshire/Rodeo: Southern California Edison (SCE) civil work completed in November 2017 and cable pulling and splicing to be completed in January 2018. SCG and AT&T to begin in February 2018.
- Beverly Hills City Council approved Memorandum of Agreement (MOA) governing remaining third party utility work on November 22, 2017.
- Negotiations with the City of Beverly Hills (COBH) for an MOA for the C1120 Contract began in August 2017 and are anticipated to complete by April 2018.



LADWP power relocation work in Century City

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 10

WESTSIDE PURPLE LINE EXTENSION – SECTION 3

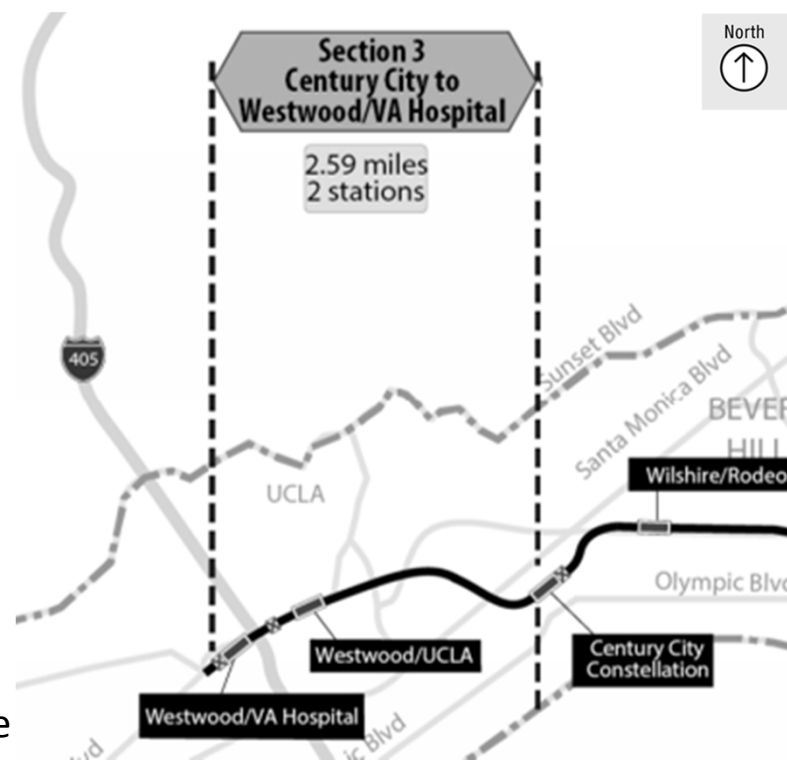
OK BUDGET

	Current	Forecast
TOTAL COST	TBD	\$3,478M

OK SCHEDULE

	Current	Forecast
REVENUE OPERATION	TBD	March 2026

- Request for Letter of No Prejudice (LONP) for the Tunnel Contract was submitted to the FTA on September 11, 2017.
- Construction Management Support Services (CMSS) Contract executed in December 2017.
- C1151 Tunnel Contract - Technical proposals were received on November 13, 2017, and price proposals are anticipated in early 2018. Recommendation for award is anticipated in March 2018.
- C1152 Stations, Trackwork and Systems Contract - Request for Qualifications (RFQ)/Request for Proposals (RFP) was issued on September 15, 2017. Qualifications from respondents were received on November 20, 2017.
- C1153 Advanced Utility Relocations (AUR) Contract – Notice to Proceed (NTP) was issued in December 2017.



January 2018



On target



Possible problem



Major issue


Construction Committee


Los Angeles County Metropolitan Transportation Authority



Metro

PATSAOURAS PLAZA BUSWAY STATION

 BUDGET	Current	Forecast
TOTAL COST	\$39.7M	\$39.7M

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Nov 2018	Dec 2018

- Pedestrian overcrossing and elevator foundations are pending Native bone resolution with Coroner
- Falsework on right side complete and concrete pours started December 2017, left side falsework is ongoing
- Installation of bridge post-tensioning, deck drains and rebar ongoing
- Electrical and communication relocations completed
- Vignes Street on/off-ramp intermittent non-peak closures ongoing
- Center Street nighttime closure approved, falsework over Center Street to be scheduled for nighttime work
- Contractor revised and submitted construction baseline schedule per Metro’s request
- Supplemental PSR/PR approved by Caltrans



Aerial view of site



Falsework – Left Side

January 2018



On target



Possible problem



Major issue




Metro 12

Construction Committee

Los Angeles County Metropolitan Transportation Authority

WILLOWBROOK/ROSA PARKS STATION

 BUDGET	Current	Forecast
TOTAL COST	N/A	\$92.4M

 SCHEDULE	Current	Forecast
SUBSTANTIAL COMPLETION	Dec 2020	Dec 2020

- Early Start Phase (Package E) Contract was awarded December 2017
- Package A and C at 100% design completion. Caltrans review completed and approved. Permit expected by end of month. County review still in process.
- Pedestrian grade crossing documents submitted to Union Pacific (UP) and Public Utilities Commission PUC
- Package A and C invitation for bids scheduled for late 2017
- In early coordination with Metro Operations on implementation of this and other Blue Line projects



South Platform Improvements



Central Plaza & Bus Bays



Main Plaza

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro 13

THE NEW BLUE

<u>Project Name</u>	Budget	Percent Completed	Forecast Completion	Status
• Pedestrian Gates	\$31.4M	87%	March 2018	OK
• City of Long Beach Fare Gates Design (Design)	\$6M	40%(Design)	Feb 2018	OK
• Blue Line Signal Rehabilitation (OCS, Signals, Div. 11)	\$119M*	10%	April 2021	OK
Total: \$156.4M				

Project Status

- **Pedestrian gates**
 - Construction completed within Cities of Long Beach and Compton
 - Construction within County of LA 90% complete
 - Working with LADOT on full Street closures traffic control plan approvals
- **MBL Signal Rehab Design at 60%**
- **City of Long Beach Fare Gates Design** (Design)
 - Design started on 5th and Wardlow stations.



*Budget Estimate

January 2018



On target



Possible problem



Major issue

Construction Committee

Los Angeles County Metropolitan Transportation Authority



Metro

Crenshaw/LAX Transit Project

Change Activity

November 2017

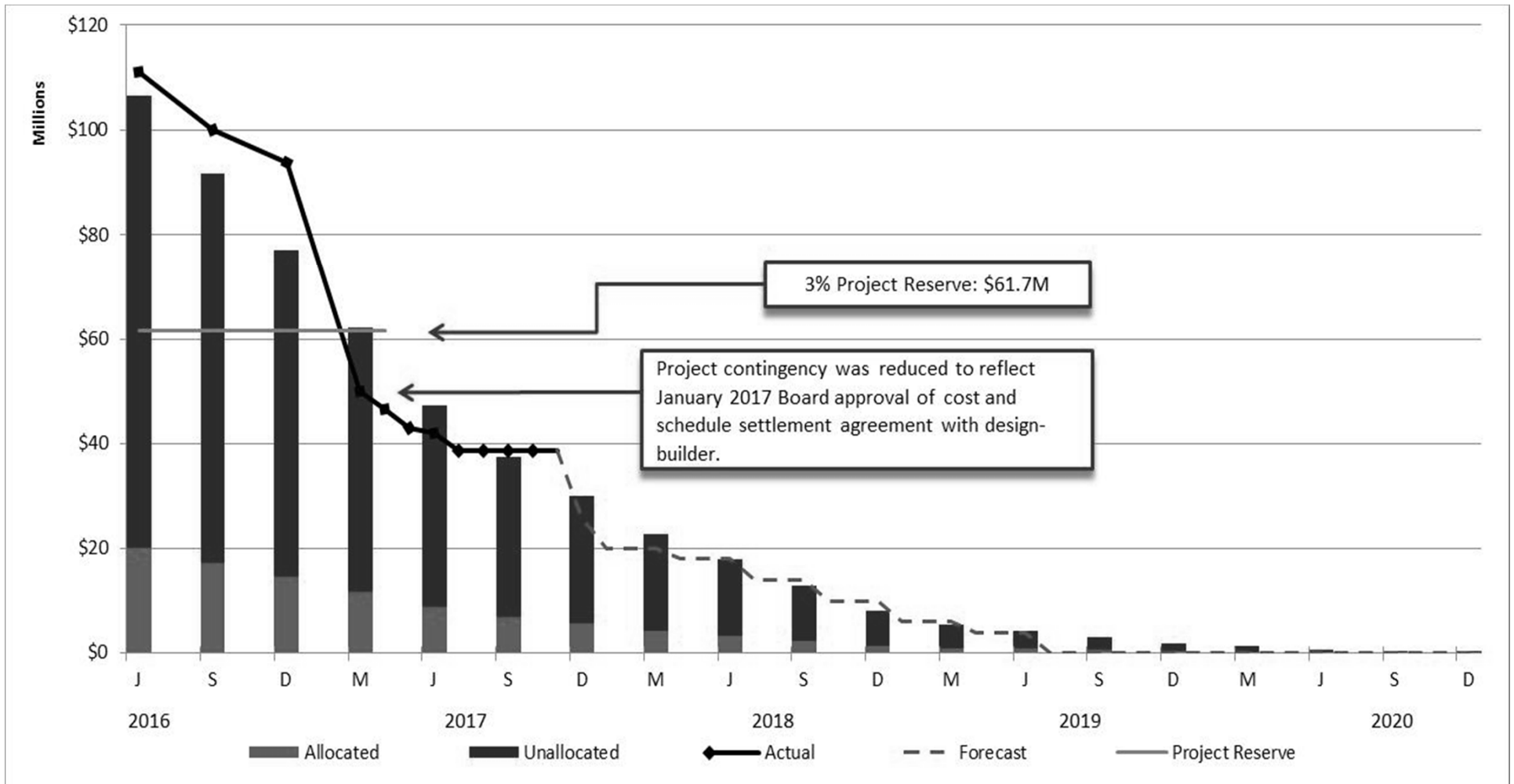


Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		339	\$ 78,792,098
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST		14	\$ (476,591)
DESIGN BUILD - CONTRACT C0988			
MOD 00290	Asbestos Cement Pipe 63rd & Tesoro		Less than \$1 million
MOD 00319	Claim 118 Resolution - Qwest Line		Less than \$1 million
MOD 00320	Clean Agent Systems in the 3 TC& C		Less than \$3 million
MOD 00321	Addl Dsgn MLK Paver Underlayment		Less than \$1 million
MOD 00323	ATC Wayside Signal Numbering Rev		Less than \$1 million
MOD 00330	Procurement of Network Equipment		Less than \$1 million
MOD 00331	Cst Reimbursement Halfway Event		Less than \$1 million
MOD 00304	BkChrg Metro pymnts to COLA TCO		Credit Less than \$2 million
MOD 00326.1	Addtl Curb Ramps at Westmount-Constr		Less than \$1 million
MOD 00327	Composite Utility Plan Revisions		Less than \$1 million
MOD 00332	Revised ROW Lines at HS-1001, Arbor		Less than \$1 million
CO 00046.5	Underground Conduit & Cable		Less than \$1 million
CO 00129	Elimination Crosver Sta 56+57.50		Credit Less than \$1 million
CO 00197	MLK Station Plaza Concrete Pav-Const		Less than \$1 million
TOTAL MODIFICATIONS AND CHANGE ORDERS		353	\$ 78,315,507
PROFESSIONAL SERVICES CONTRACTS			
Design Support Services During Construction - CONTRACT E0117			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		42	\$ 59,217,720
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		42	\$ 59,217,720
Construction Management Support Services - CONTRACT MC069			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		18	\$ 69,484,775
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		18	\$ 69,484,775

Crenshaw/LAX Transit Project

Project Cost Contingency Drawdown

November 2017



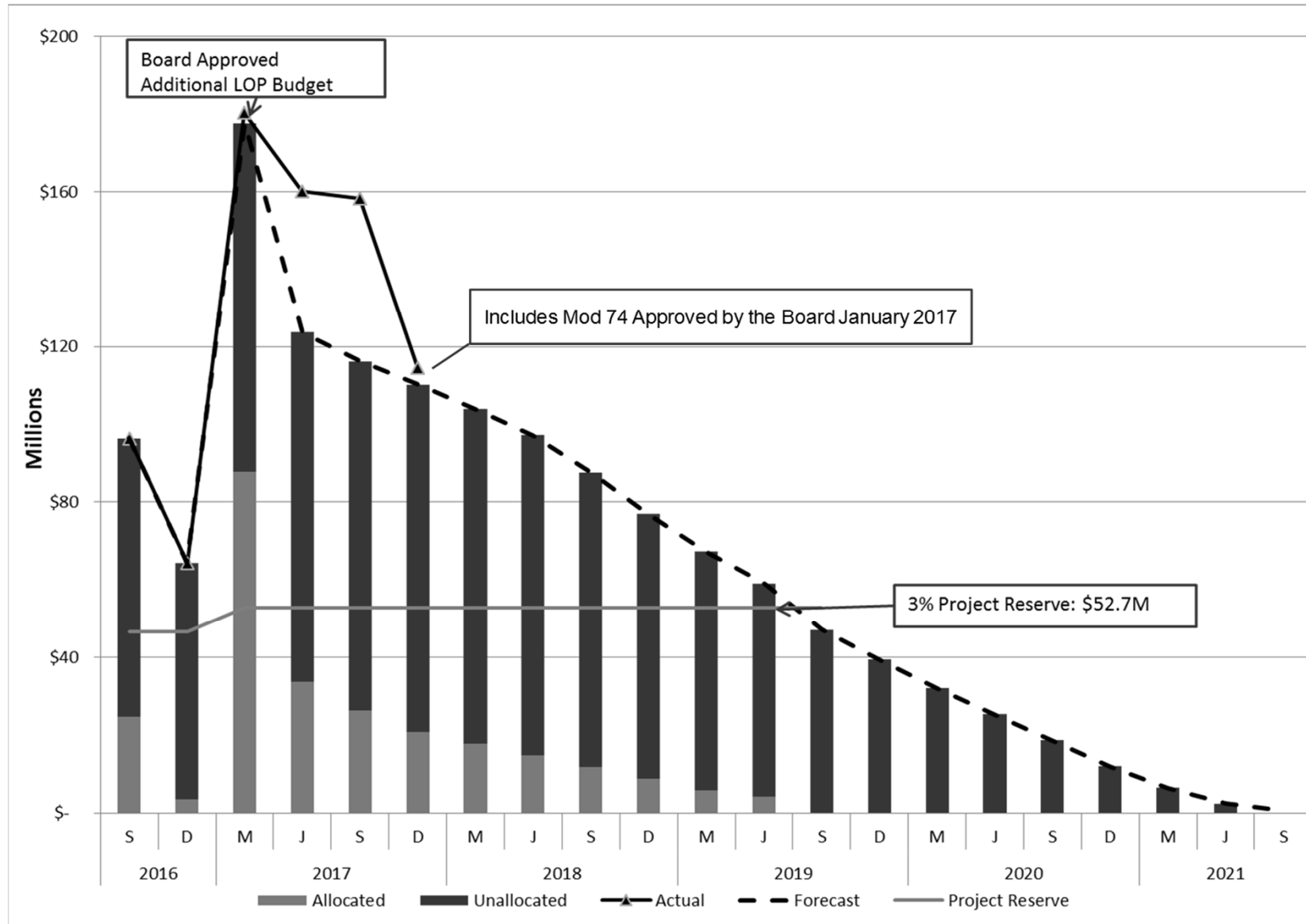
Regional Connector Change Activity

November 2017



Change Notice #	Description	Number of Mod/ Change Orders	Cost Value
DESIGN BUILD CONTRACT (C0980)			
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:		103	\$ 194,191,501
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		32	\$ 28,568,488
	1st/Alameda Bumpout (Construction)		Less Than \$1 Million
TBD	Flower Street Modification: future 2-way Traffic /Bumpout/Ped Lighting (Construction Only)		Between \$1 and \$5 Million
TBD	Revise Metro Rail Station Signage and Incorporate Metro Underground Station Signage (Construction)		Less Than \$1 Million
TBD	Add Wye Junction Fan Plant - Construction		Between \$10 and \$15 Million
68.0	Flower Street Zanja Additional Potholing		Less Than \$1 Million
87.0	Support Veolia 24" Chilled Water Pipes at 2nd/Hope Station		Less Than \$1 Million
99.0	Option 3 Pedestrian Bridge Revisions / Broad Coordination (Construction)		Between \$1 and \$5 Million
TBD	Add One Add '1 VHF Radio Operational Channel - Construction		Less Than \$1 Million
106.0	Revisions to Metro Optical Network Switch		Less Than \$1 Million
TBD	Revise Communication Radio System SOW (Construction)		Less Than \$1 Million
TBD	Add Perforated Metal Dropped Ceiling at 2nd/Hope Station Plaza - Construction		Less Than \$1 Million
111.0	Spray-on Acoustical Finishes Additional Quantities		Between \$1 and \$5 Million
TBD	Revised Emergency Walkways at Curves (30" to 35") - Construction		Less Than \$1 Million
121.0	Utility Conflicts during Decking at 4th & Flower St.		Less Than \$1 Million
122.0	Asbestos Abatement on Flower St. thru May 2017		Less Than \$1 Million
TBD	Insurance Claim - JVP Compensation Grout Line		Less Than \$1 Million
130.00	10" Sewer Bypass at 1st/Alameda		Less Than \$1 Million
131.00	Backfilling Broken Compensation Grouting Pipes at JVP		Less Than \$1 Million
133.0	Deleting OCS Work at 7th Metro (CREDIT)		Less Than \$1 Million
134.0	2nd/Broadway - LA Times Communication Line Realignment Due to Differing Site Conditions		Less Than \$1 Million
137.0	Revise SOE and Train Control and Mechanical Rooms (Charles Dunn SOE DSC)		Less Than \$1 Million
138.0	LADWP Switch Room Requirements for 1st and Central Station - Design Only		Less Than \$1 Million
TBD	Add '1 Commonwealth Agreement (noise barrier)		Less Than \$1 Million
146.0	Add '1 Gas Monitoring/Potential Gassy w/Special Conditions		Between \$1 and \$5 Million
148.0	Platform Stand-Alone Validators		Less Than \$1 Million
150.0	Support Lowering of MCI and LGN/Level 3 Conduits on Flower St.		Less Than \$1 Million
151.0	Differing Site Conditions - Time		Between \$1 and \$5 Million
TBD	Differing Site Conditions - Labor		Between \$1 and \$5 Million
TBD	Zayo, AT&T, and DWP Fiber Optic Line Extra Week		Less Than \$1 Million
TBD	DWP Vault Support (5) on Flower		Less Than \$1 Million
153.00	Additional UPS System for Regional Connector Radio Racks at 7th Metro -Design Only		Less Than \$1 Million
TBD	Additional UPS System for Regional Connector Radio Racks at 7th Metro -Construction		Less Than \$1 Million
TOTAL MODIFICATIONS AND CHANGE ORDERS		135	\$ 222,759,989
PROFESSIONAL SERVICES CONTRACT			
Design Support Services During Construction (E0119)			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		12	\$ 44,629,810
TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		12	\$ 44,629,810
Construction Management Support Services (MC070)			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		5	\$ 35,630,672
TOTAL PENDING MODIFICATIONS ROUGH ORDER OF MAGNITUDE COST		0	\$ -
TOTAL MODIFICATIONS		5	\$ 35,630,672

Regional Connector Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 1 Change Activity

November 2017



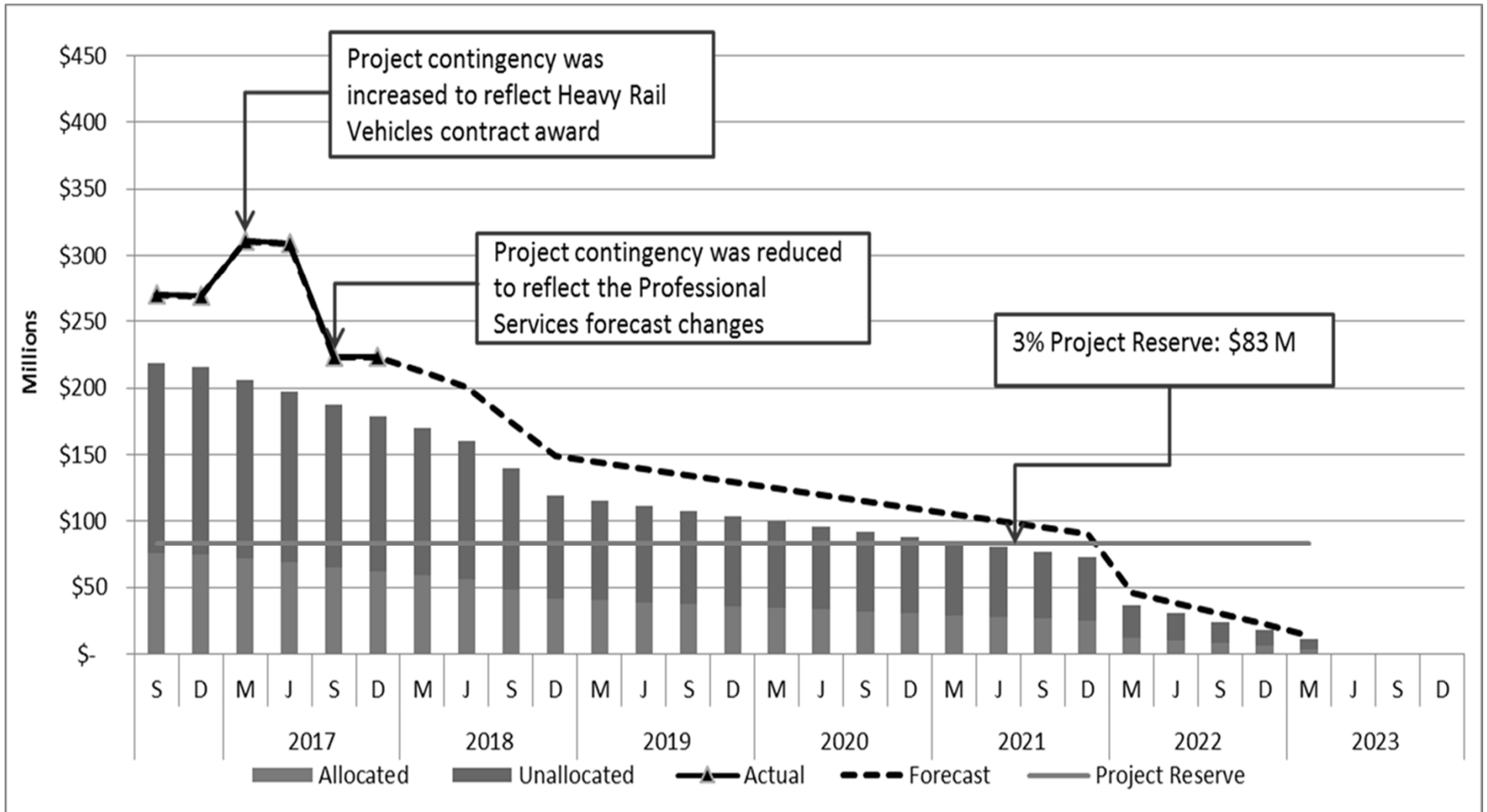
Westside Purple Line Extension Section 1 Project Change Activity

Change Notice #	Description	Number of Mod/Change Orders	Cost Value
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS AND CHANGE ORDERS:		149	\$ 30,009,798
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		46	More than \$15M
DESIGN/BUILD CONTRACT C1045			
		35	
CN-26	Betterment City of Beverly Hills - Median Reconstruction at San Vicente Blvd		Less Than \$1 Million
CN-32	Pin Station (Identifier) Changes		Less Than \$1 Million
CN-42.3	Radio Subsystem Redundancy		Between \$1M - \$5M
CN-43.2	Isolate Track Circuits at Wilshire/Western		Less Than \$1 Million
CN-47.2	Stainless Steel Enclosure for TVM and PTEL		Less Than \$1 Million
CN-56	Implement City of Beverly Hills Memorandum of Agreement (MOA)		Between \$10M - \$15M
CN-63	La Brea- Additional Instrumentation Requested by BOE		Less Than \$1 Million
CN-64.1	Additional SOE Design Work - La Brea Station		Less Than \$1 Million
CN-65.1	Additional SOE Design Work for Fairfax Station Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-66	Additional Dewatering Treatment & Discharge Costs at La Brea		Less Than \$1 Million
CN-67	Tactile Guidance (Construction and Plaza Material Change)		Less Than \$1 Million
CN-68	Increased Ventilation of Station Ancillary Rooms		Less Than \$1 Million
CN-72.1	Stations - Art Related Changes		Less Than \$1 Million
CN-76	Additional SOE Design Work for La Cienega Station Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-77	Additional Interpretation for Building Settlement		Less Than \$1 Million
CN-78	Fairfax - DWP Ductbank Conflict with Deck Beams		Less Than \$1 Million
CN-79	Wilshire/Western - Permit Approval and Inspection for Access Shaft		Less Than \$1 Million
CN-80.1	Stand by Generator Enclosure Aesthetic Improvements at La Cienega		Less Than \$1 Million
CN-81	Additional Instrumentation (Project Wide) as Required by LABOE and STS EOR		Less Than \$1 Million
CN-82	Additional Geotechnical Instrumentation at Western		Less Than \$1 Million
CN-83	Additional Dewatering Treatment & Discharge Impacts at Western		Less Than \$1 Million
CN-84	Additional SOE Design Work for the Western Shaft Due to Deviation Request for Building Settlement		Less Than \$1 Million
CN-85	La Brea Utility hanging Changes for Sewer and Storm Drains		Less Than \$1 Million
CN-87	Power Duct Bank Conflict at La Brea (ECI-4)		Less Than \$1 Million
CN-88	TCE Slab Demolition and Removal at the Western Shaft		Less Than \$1 Million
CN-89	La Cienega-Removal of AT&T Abandoned Cables		Less Than \$1 Million
CN-91	La Brea-DWP Conflict and Impacts to Cap Beam Walkers 28 & 29		Less Than \$1 Million
CN-92	La Cienega - Impacts from Delayed SCE Lines/MH Abandonment		Less Than \$1 Million
CN-93	Center Muck Shaft at La Brea (ECI-4)		Less Than \$1 Million
CN-94	Negative Rail-to-Ground Voltage Device at Fairfax Station		Less Than \$1 Million
CN-96	La Cienega - TPSS Room Changes for SCE (Design and Construction)		Less Than \$1 Million
TBD	Fairfax - Piling Obstructions, Conflicts, Delays		Less Than \$1 Million
TBD	La Cienega - Piling Hours		Less Than \$1 Million
TBD	Crossover Exit Doors at Stations (La Brea, La Cienega)		Less Than \$1 Million
TBD	La Cienega Tail Track FLS Issues		Less Than \$1 Million
DESIGN/BUILD CONTRACT C1078			
		11	
CN-11	Schedule Impacts Due to Third Party		Between \$1M - \$5M
CN-12	Betterment - Motorized Sliding Gate for the City of LA		Less Than \$1 Million
CN-13	AST Leak Detection and Remote Lubrication Fill/Extract Station		Less Than \$1 Million
CN-16	Betterment: Install Street Lights, Trees and Drip Irrigation for the City of LA		Less Than \$1 Million
CN-18	Storm Drain - Differing Site Conditions		Less Than \$1 Million
TBD	Support of Building Art Work		Less Than \$1 Million
TBD	On-Site LIDs		Less Than \$1 Million
TBD	Hazardous Materials - Chalmers Pan Handle		Less Than \$1 Million
TBD	Betterment: 6th Street Viaduct - Site Re-Grading, Ornamental Fenc., Etc.		Less Than \$1 Million
TBD	Updated IT Standards on Data Drops and Outlets		Less Than \$1 Million
TBD	Remove Division 20 Concrete Medians		Less Than \$1 Million
TBD	TOTAL MODIFICATIONS AND CHANGE ORDERS	195	
PROFESSIONAL SERVICES CONTRACTS			
Design Support Services During Construction - CONTRACT PS43502000			
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:		22	\$ 92,608,453
TOTAL PENDING MODIFICATIONS		0	
TOTAL MODIFICATIONS AND CHANGE ORDERS		22	
Construction Management Support Services - CONTRACT MC071			
TOTAL VALUE OF ALL EXECUTED CONTRACT MODIFICATIONS:		4	\$ 70,297,456
TOTAL PENDING MODIFICATIONS		0	
TOTAL MODIFICATIONS AND CHANGE ORDERS		4	
OTHER - THIRD PARTY AGREEMENTS			

Westside Purple Line Extension – Section 1

November 2017

Project Cost Contingency Drawdown



Westside Purple Line Extension – Section 2

Change Activity

November 2017

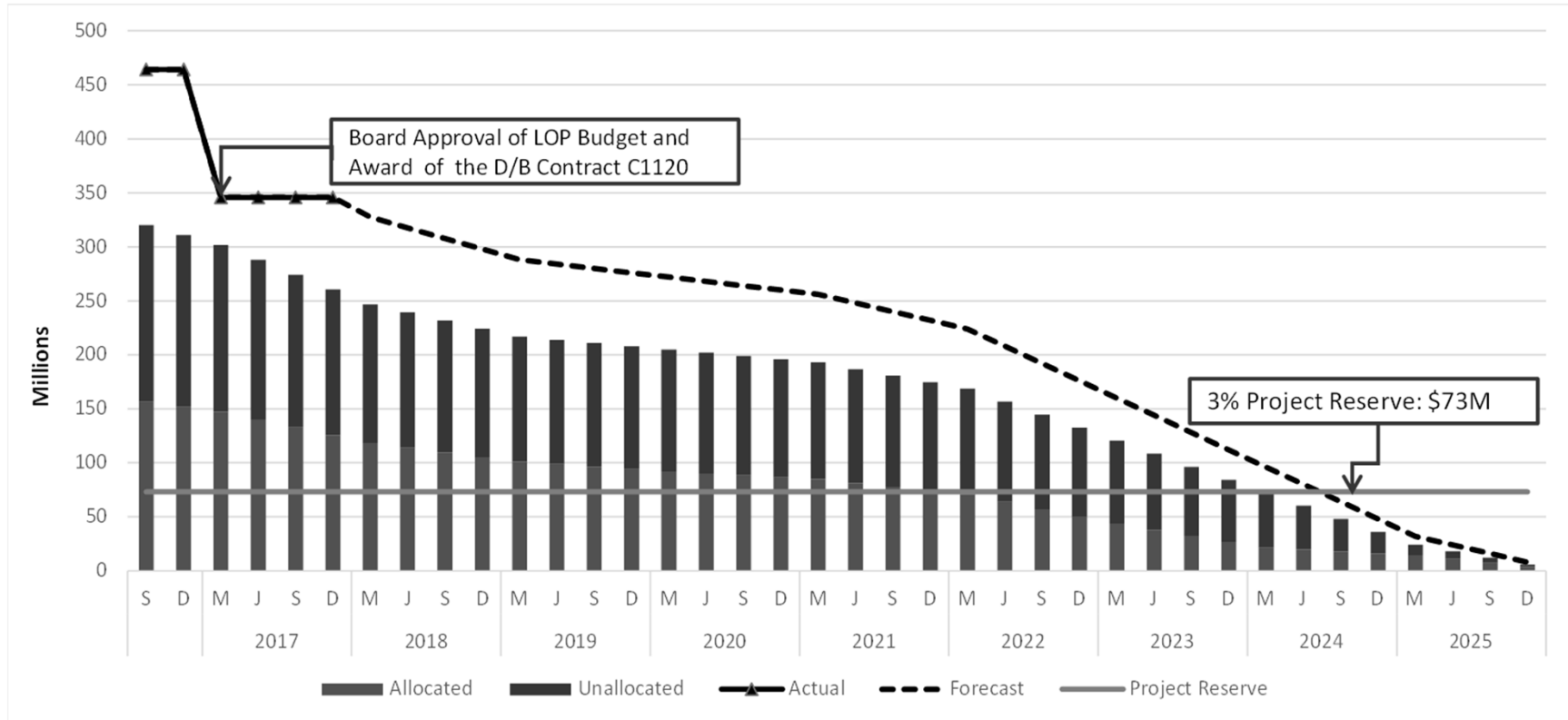


Change Notice #	Description	Number of Mod/Change Orders	Cost Value
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS AND APPROVED CHANGE ORDERS		4	\$ 136,893
TOTAL PENDING MODIFICATIONS AND CHANGE ORDERS ROUGH ORDER OF MAGNITUDE COST:		9	More than \$15 Million
DESIGN/BUILD CONTRACT C1120			
CN-3.1	Century City Constellation Station: Main Entrance (Design)		Less Than \$1 Million
CN-4.1	Final Design Location of Third Party Utility Relocation		Less Than \$1 Million
CN-7	Deletion of Cross Passage Geotech Boring		Less Than \$1 Million
CN-8	Additional Abatement at Former ACE Gallery Site		Less Than \$1 Million
CN-9	Century City Constellation Station Train Headway Revisions		Less Than \$1 Million
CN-10	Worksite Traffic Control for SCG & AT&T Advanced Utility Relocation		Between \$1M - \$5 M
TBD	Century City Constellation Station West Ancillary & OPE Reconfiguration (Construction)		Less Than \$1 Million
TBD	Century City Constellation Station: Main Entrance (Construction)		More Than \$15 Million
TBD	AT&T Building Demolition		Between \$1M - \$5 M
TOTAL MODIFICATIONS AND CHANGE ORDERS		13	\$ -
PROFESSIONAL SERVICES CONTRACT			
Design Support Services During Construction			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		0	\$ -
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		0	\$ -
Construction Management Support Services			
TOTAL VALUE OF EXECUTED CONTRACT MODIFICATIONS		0	\$ -
TOTAL PENDING MODIFICATIONS		0	\$ -
TOTAL MODIFICATIONS		0	\$ -
OTHER - THIRD PARTY AGREEMENTS			

Westside Purple Line Extension – Section 2

Project Cost Contingency Drawdown

November 2017





Board Report

File #: 2017-0828, File Type: Contract

Agenda Number: 32.

CONSTRUCTION COMMITTEE JANUARY 18, 2018

SUBJECT: DIVISION 20 PORTAL WIDENING TURNBACK PROJECT

ACTION: APPROVE CONTRACT MODIFICATION

RECOMMENDATION

CONSIDER:

- A. AUTHORIZING the Chief Executive Officer to execute Contract Modification No. 4 to Contract No. AE66758000 with T.Y. Lin International (TYLIN) to provide additional final design engineering services for the Division 20 Portal Widening Turnback Project, in an amount not-to-exceed \$3,449,949, increasing contract value from \$12,225,661 to \$15,675,610;
- B. AUTHORIZING an increase in Contract Modification Authority from \$2,053,132 to \$3,053,132 for potential design modifications due to Third Party coordination and extended design services during construction; and
- C. AMEND the FY18 budget for an amount not to exceed \$25M to support recommendations A, B and for the acquisition of real property and related costs including loss of good will and relocation for properties required for the Division 20 Portal Widening Turnback Project.

ISSUE

Per the Full Funding Grant Agreement (FFGA) for the Westside Purple Line Extension (WPLE) Section 1, Metro committed to make appropriate infrastructure modifications to allow the Red and Purple Lines to operate at reduced headways. These requirements were carried forward as like provisions under the terms of the FFGA for WPLE Section 2. The current design contract for the Division 20 Portal Widening Turnback Project as approved in a March 2017 Board Action included the widening of the existing tunnel portal and construction of a turnback facility.

As preliminary engineering has progressed, modeling for achievement of 4-minute headways and modifications to the turnback layout have produced significantly improved turnback and additional storage capacity for the Red and Purple Line, necessitated by the increased capacity needs generated by completion of WPLE Section 3 in addition to Sections 1 and 2, as well as system wide transit operations. In addition to improved track and storage facility layout, these proposed changes,

identified in the preliminary engineering phase, include improved access to a future Arts District station at 6th Street and accommodating potential future alignments for Link Union Station and High Speed Rail.

BACKGROUND

On March 23, 2017, the Metro Board of Directors certified the Final Initial Study/Mitigated Negative Declaration (IS/MND) and approved the award of a design contract for the Division 20 Portal Widening Turnback Project. The project is required to support four-minute service on the Westside Purple Line Extension (WPLE) per the project's Full Funding Grant Agreement which requires the ability to support two-minute headways east of the Wilshire Vermont Station where the Red and Purple Lines share tracks. The scope of the project was to construct a turnback facility on the west side of the Red and Purple Line yard (Division 20) with the turnback facility terminating east of the One Santa Fe residence and within Metro property located between First Street and Third Street. It also included widening the existing tunnel portal to accommodate the additional tracks. The adopted Initial Study/Mitigated Negative Declaration (IS/MND) environmental analysis prepared for the project included full acquisition of the Tow Yard property.

On April 27, 2017, the Board received an update (File #2017-0130) on Metro's long-term needs at Division 20 in the Downtown Los Angeles Arts District and the accommodations necessary for a potential future Arts District passenger rail station (the majority of public comments on the certified IS/MND showed a strong preference for a station to be located in the Arts District vicinity of 6th Street). The report also addressed increased storage capacity for Metro's growing rail fleet including accommodations for storage of WPLE trains in the Red Line Yard. With the passage of Measure M, Sections 2 and 3 of WPLE are slated to be delivered as early as FY24 and no later than 2026, accelerating the need for expanded storage capacity in the yard.

Subsequently, the Division 20 Portal Widening Turnback Project has been revised to include storage tracks for WPLE as well as a modified turnback facility that not only meets operational requirements and flexibility, but minimizes significant future infrastructure modifications if a future project for a 6th Street Station is approved and funded. The combination of portal widening and turnback tracks/signaling to support a two minute headway, additional storage tracks and accommodation for a potential, future station at 6th St - all within a constrained footprint of an active rail maintenance and storage site - have significantly increased the size and complexity of this project.

With this more holistic approach, staff has identified additional real estate impacts and other critical work including: civil and trackwork improvements, structural modifications to the First Street Bridge, demolition, and installation of a new power substation. The project is also coordinating with the Emergency Security Operations Center (ESOC), the proposed Link Union Station, and High Speed Rail projects, and incorporating needed "not to preclude" design elements of these projects to

minimize potential conflicts during the turnback project's construction and reduce throw away work, including the addition of a ventilation facility. See Attachment D.

Due to these changes in scope, an Environmental Impact Report (EIR) has been initiated for the modified project with the Notice of Preparation filed in October 2017 and the required public scoping meetings held over the past two months in October and November of 2017.

Staff is recommending approval of this Board action to provide sufficient contract funding for Metro's Design Consultant, TYLIN, to address all of the needed modifications and complete services through final design, bid support services, and design services during construction. In addition to the increased design costs which are directly related to the changes described in this report, including updated track layout, increased power capacity, vehicle storage and "not to preclude" improvements for coordination with Link US and High Speed Rail, staff is recommending an increase of \$1,000,000 in contract modification authority to address any further changes that may be required for final design of the project. Overall schedule of the project will remain unchanged. TYLIN will continue to meet or exceed the Disadvantaged Business Enterprise goal of 27%.

DETERMINATION OF SAFETY IMPACT

Approval of this item will have no impact on safety.

FINANCIAL IMPACT

This project is funded on a fiscal year basis under Project number 865519 Division 20 Portal Widening Turnback Facility, cost center 8510, under various accounts including Professional/Technical Services and ROW acquisitions. The project is authorized to expend up to a cumulative amount of \$76.9M through the FY18 period. However an FY18 funding amendment is required to allow for recommendations A, B and C. Upon approval of the recommendations, the FY18 budget authority will be increased by \$25.0M, to \$101.9M. This is a multi-year project requiring expenditure authorizations in fiscal year increments until a Board Authorized Life of Project Budget is adopted. It is the responsibility of the Project Manager and Chief Program Management Officer to budget for this project in future fiscal years.

Impact to Budget

Through FY18, the sources of funds for the recommended actions are Measure R 35% and Cap & Trade Transit and Intercity Rail Capital Program (TIRCP). Due to the underground nature of the project work scope, Proposition A or Proposition C funds were not considered and are not included in this authorization request. There is no impact to Operations eligible funding. No other funds were considered.

ALTERNATIVES CONSIDERED

The Board could decide not to approve the recommended Contract Modification. This course would

delay completion of final design and is not recommended due to potential impacts to construction and thereby jeopardizing completion of the project and requirements of the FFGA for WPLE Section 1.

NEXT STEPS

After Board approval and execution of the Contract Modification, staff will direct the consultant to continue providing final design engineering services and design support services during construction of the Division 20 Portal Widening Turnback Project. Staff will proceed with purchase agreement with the property owner.

An overall LOP has not been established for this project pending completion of design. However, these changes to the original scope will generate an increase in the original cost estimates. Staff expects to return to the Board for authorization and funding to acquire additional properties impacted by the project and award of contracts for:

- Construction Management Support Services
- Traction Power Sub Station
- Early Demolition
- Construction

In addition staff will request Board certification of the Environmental Impact Report.

ATTACHMENTS

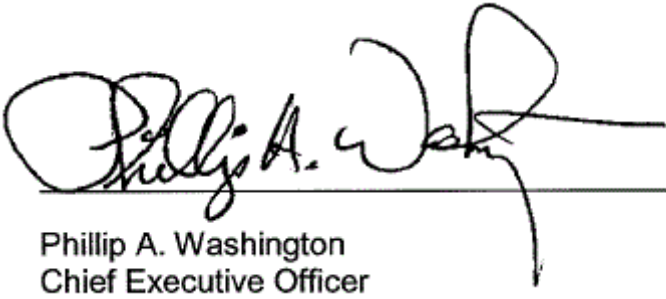
Attachment A - Procurement Summary
Attachment B - Contract Modification/Change Order Log
Attachment C - DBE Summary
Attachment D - Revised Project Layout

Prepared by:

Rick Meade, Senior Executive Officer (213) 922-7917

Reviewed by:

Richard Clarke, Chief Program Management Officer (213) 922-7557
Debra Avila, Chief Vendor/Contract Management Officer (213) 418-3051



Phillip A. Washington
Chief Executive Officer

PROCUREMENT SUMMARY

**DIVISION 20 PORTAL WIDENING TURNBACK PROJECT/
AE66758000**

1.	Contract Number: AE66758000		
2.	Contractor: T.Y. Lin International		
3.	Mod. Work Description: (1) Additional final design engineering services for Division 20 Portal Widening Turnback Project ; (2) Acquisition of real property and related costs for properties required for the Project; and (3) Increase Contract Modification Authority (CMA) for pending modifications to support ongoing project.		
4.	Contract Work Description: Architectural and Engineering Design Services for Division 20 Portal Widening Turnback Project and Design Support during Construction.		
5.	The following data is current as of: December 18, 20117		
6.	Contract Completion Status		Financial Status
	Contract Awarded:	3/23/17	Contract Award Amount: \$10,265,661
	Notice to Proceed (NTP):	3/23/17	Total of Modifications Approved: \$1,960,000
	Original Complete Date:	Fall 2023	Pending Modifications (including this action): \$3,449,949
	Current Est. Complete Date:	Fall 2023	Current Contract Value (with this action): \$15,675,610
7.	Contract Administrator: Dianne Sirisut		Telephone Number: (213) 922-2737
8.	Project Manager: June Susilo		Telephone Number: (213) 922-2532

A. Procurement Background

This Board action is to approve Modification No. 4 issued in support of the design interface and coordination with the adjacent Metro Emergency Security Operations Center (ESOC) Project, preservation and optional restoration of impacted historic building, development of an early demolition procurement, ventilation facility, environmental clearance design support, and an increase in Contract Modification Authority (CMA).

The Contract Modification will be processed in accordance with Metro's Acquisition Policy and the contract type is a cost plus fixed fee contract.

History of the original procurement:

Core Capacity Enhancements at Division 20 for a Portal Widening and Turnback Facility (Project) was presented to and approved by the Metro Board on March 23,

2017, as Item #26. The Project is a component of the overall Metro commitment to make appropriate infrastructure modifications to allow the Red and Purple Lines to operate at reduced headways per the Full Funding Grant Agreement (FFGA) for the Westside Purple Line Extension (WPLE) Section 1.

T.Y. Lin International was determined to be the most qualified firm to provide the required services and was awarded this Architecture and Engineering Contract on March 23, 2017. T.Y Lin International's price of \$10,265,661 was determined to be fair and reasonable. The CMA of \$2,053,132 was established per Metro Board approval at twenty percent (20%) of the Contract Price.

Refer to Attachment B for modifications issued to date to add work, and the proposed modification currently pending authorization.

B. Cost/Price Analysis

The recommended price has been determined to be fair and reasonable based upon an independent cost estimate, cost analysis, technical evaluation, fact finding, and negotiations.

Proposal Amount	Metro ICE	Negotiated Amount
\$ 3,553,991	\$ 3,356,893	\$ 3,449,949

CONTRACT MODIFICATION/CHANGE LOG

**DIVISION 20 PORTAL WIDENING TURNBACK PROJECT
CONTRACT NO. AE66758000**

Mod/CO No.	Description	Status	Contract Value (A)	Mod/CO Value (B)	Board Approved CMA (C)
N/A	Initial Award		\$10,265,661		\$2,053,132
Mod No. 1	Revision to Turnback Facility, Addition of Storage Tracks, and New Traction Power Substation (CN No. 2)	Approved (in-process)		\$670,000	
Mod No. 2	First Street Bridge Modifications (CN No. 3)	Approved (in-process)		\$550,000	
Mod No. 3	Link Union Station Accommodations (CN No. 4)	Approved (in-process)		\$740,000	
Subtotal Approved Changes				\$1,960,000	
Mod No. 4	Early Demolition Ventilation (CN No. 5)	Pending		\$3,500,000	
Subtotal Approved and Pending Changes				\$5,460,000	
Total Contract Value(Including Approved and Pending Changes) \$12,225,661 + \$3,500,000 =			\$15,725,661		
Prior CMA Authorized by the Board					\$2,053,132
Approved (in-process) Changes					\$1,960,000
Remaining CMA for Future Changes					\$93,132
Pending Changes					\$3,500,000
Increased CMA for this Recommended Action					\$3,500,000
Additional CMA Requested for Future Changes					\$1,000,000

DEOD SUMMARY

**DIVISION 20 PORTAL WIDENING TURNBACK PROJECT/
AE66758000**

A. Small Business Participation

T.Y. Lin International (T.Y. Lin) made a 27.01% Disadvantaged Business Enterprise (DBE) commitment. The project is 4% complete and the current DBE participation is 16.40%, representing a shortfall of 10.61%. T.Y. Lin explained that the first few months of the project included track work design, general site layout and track plan, which were scopes assigned to the Prime (T.Y. Lin). Several DBE subcontractors had scopes that required the alignment to be set and approved by Metro, which occurred in mid-August 2017. Other DBE subcontractors have begun work, but have yet to be invoiced for payment. In addition, Metro approved changes to the original project resulting in a significant reduction in Anil Verma Associates' scope of work that was included in T.Y. Lin's overall DBE commitment (a condition of award).

DEOD has requested a detailed recovery plan, including a time-based, cumulative forecast showing planned versus actual attainment of DBE achievement throughout the project for review by Metro staff. In the interim, T.Y. Lin confirmed its plan to meet or exceed its DBE commitment during the term of contract.

Small Business Commitment	27.01% DBE	Small Business Participation	16.40% DBE
DBE Subcontractors	Ethnicity	% Committed	Current Participation¹
1. Anil Verma Associates	Subcontinent Asian American	7.69%	0.00%
2. Earth Mechanics, Inc.	Asian Pacific American	2.18%	0.00%
3. Kal Krishnan Consulting Services Inc.	Subcontinent Asian American	2.80%	3.37%
4. LIN Consulting, Inc.	Asian Pacific American	12.30%	5.73%
5. Safeprobe, Inc.	Asian Pacific American	0.40%	0.00%
6. Wagner Engineering & Survey, Inc.	Caucasian Female	1.64%	7.30%
7. Triunity Engineering & Management, Inc.	African American	Added	0.00%
	Total	27.01%	16.40%

¹Current Participation = Total Actual amount Paid-to-Date to DBE firms ÷ Total Actual Amount Paid-to-date to Prime.

B. Living Wage and Service Contract Worker Retention Policy Applicability

The Living Wage and Service Contract Worker Retention Policy (LW/SCWRP) is not applicable to this Contract.

C. Prevailing Wage Applicability

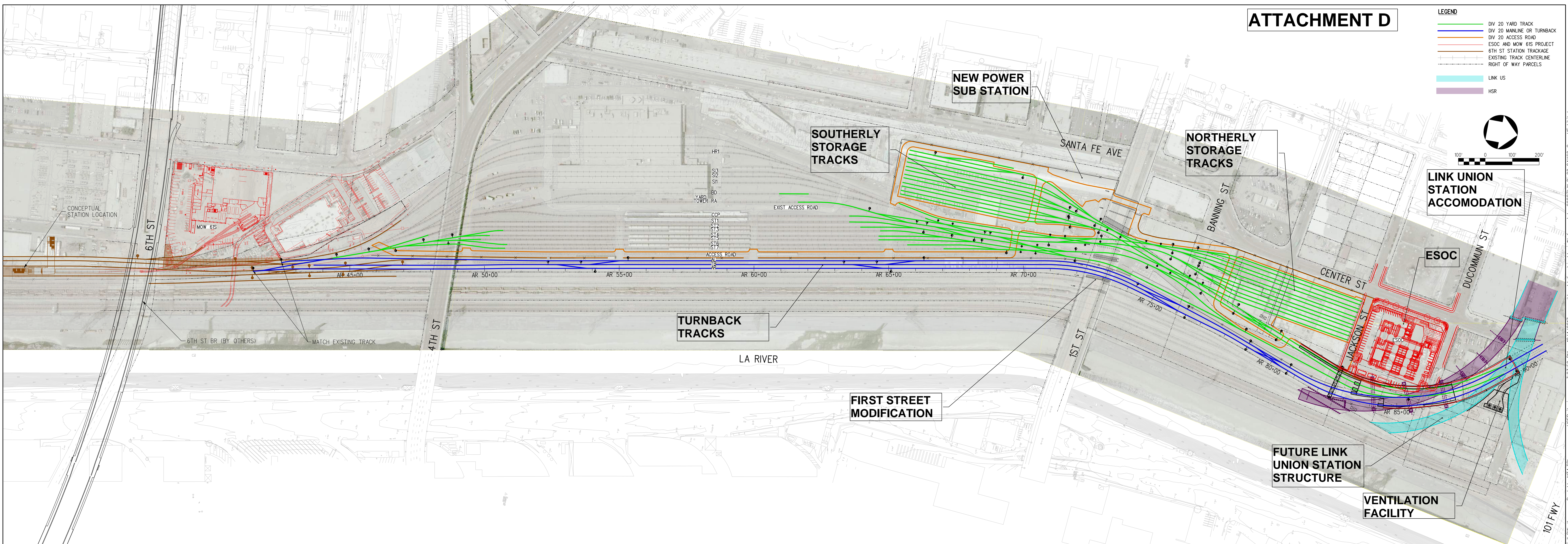
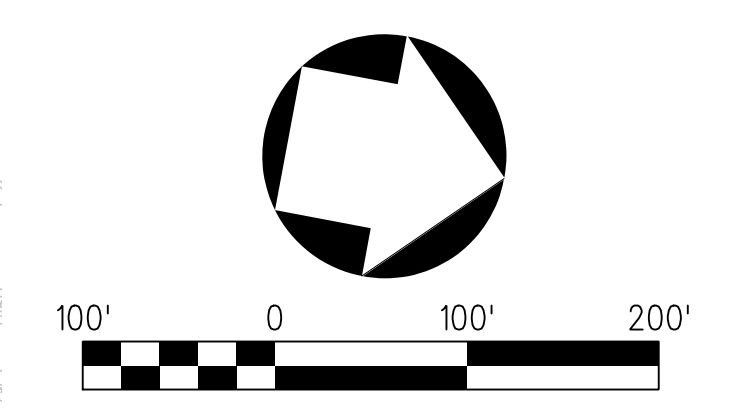
Prevailing Wage requirements are applicable to this project. DEOD will monitor contractors' compliance with the State of California Department of Industrial Relations (DIR), California Labor Code, and, if federally funded, the U.S. Department of Labor (DOL) Davis-Bacon and Related Acts (DBRA). Trades that may be covered include: surveying, potholing, field, soils and materials testing, building construction inspection, construction management and other support trades.

D. Project Labor Agreement/Construction Careers Policy

Project Labor Agreement/Construction Careers Policy is not applicable to this Contract.

ATTACHMENT D

- LEGEND**
- DIV 20 YARD TRACK
 - DIV 20 MAINLINE OR TURNBACK
 - DIV 20 ACCESS ROAD
 - ESOC AND MOW 61S PROJECT
 - 6TH ST STATION TRACKAGE
 - EXISTING TRACK CENTERLINE
 - - - RIGHT OF WAY PARCELS
 - LINK US
 - HSR



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

TYLIN INTERNATIONAL

707 Wilshire Boulevard, Suite 4900
Los Angeles, CA 90017

**DIVISION 20 PORTAL WIDENING TURNBACK
HSR, MOW 61S, ESOC, LINK US AND HSR PROJECTS**

EXHIBIT
SUBJECT TO CHANGE
NOT FOR DISTRIBUTION

EXHIBIT: A1
DATE: 12/4/17

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 Plot Driver-MTA-PDF-Full-BW.plt