

Westside Purple Line Extension Section 1 Project



Metro

Westside Purple Line Extension Section 1 Project

MONTHLY PROJECT STATUS REPORT

THE PREPARATION OF THIS DOCUMENT HAS BEEN FINANCED IN PART THROUGH A GRANT FROM THE U. S. DEPARTMENT OF TRANSPORTATION, FEDERAL TRANSIT ADMINISTRATION (FTA).

August 2018

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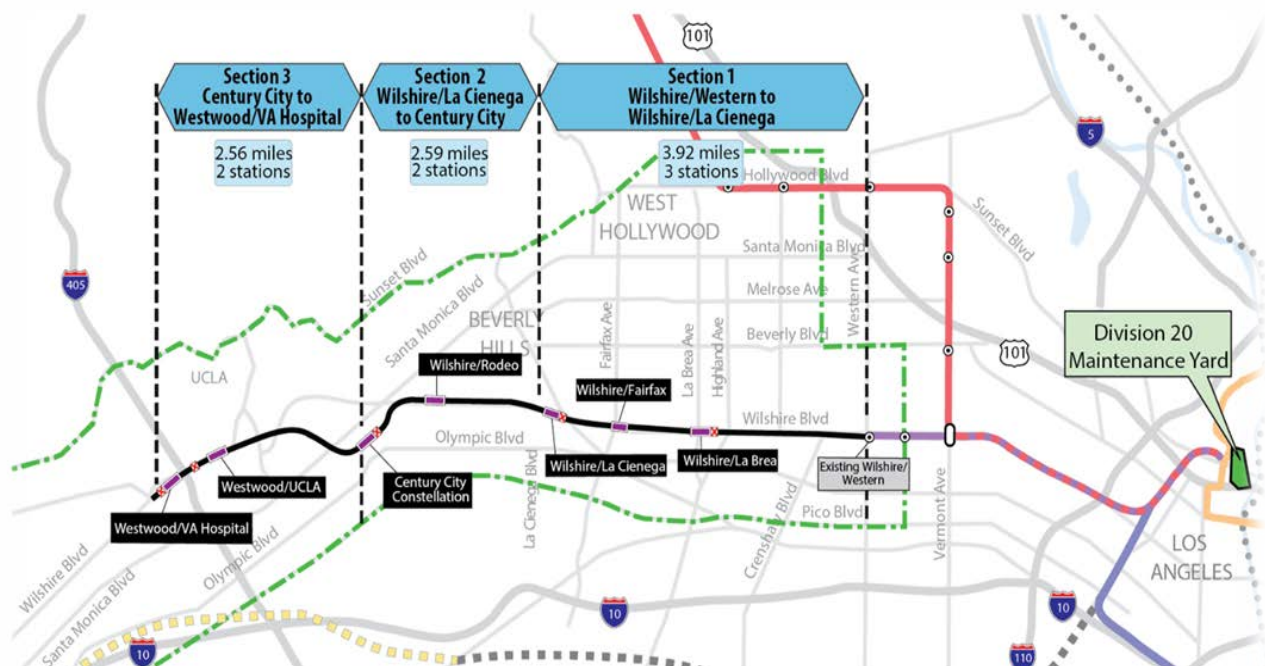
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PROJECT OVERVIEW

Project Background

Section 1 of the Westside Purple Line Extension Project is the first of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority (LACMTA) Measure R Program. The program was approved by Los Angeles County voters in November 2008 and provides a half-cent sales tax to finance new transportation projects. In April 2012, the three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple Line by 3.92 miles beginning at the Wilshire/Western Station. From this station, the twin tunnel alignment will travel westerly within the existing Wilshire Boulevard right-of-way. Stations will be located at the intersections of Wilshire/La Brea, Wilshire/Fairfax, and Wilshire/La Cienega. All three of the station boxes will be located within the Wilshire Boulevard right-of-way with station portals extending to off-street entrances. Two of the stations, Wilshire/La Brea and Wilshire/Fairfax are within the jurisdiction of the City of Los Angeles. The Wilshire/La Cienega Station is within the City of Beverly Hills jurisdiction.



The Wilshire/La Brea Station box will be located under the center of Wilshire Boulevard in between Detroit Street and Orange Drive. A double crossover will be located east of the station box. The station entrance will be on the northwest corner of Wilshire Boulevard and La Brea Avenue.

The Wilshire/Fairfax Station box will be located under the center of Wilshire Boulevard west of Fairfax Avenue to west of Ogden Drive. The station entrance will be on the southeast corner of Wilshire Boulevard and Orange Grove Avenue.

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for Section 1, tail tracks will be located west of the station box.

Major Procurements

Contract C1034 – Wilshire/Fairfax Exploratory Shaft

Metro constructed an exploratory shaft to observe ground conditions prior to the award of Contract C1045. The location of the exploratory shaft was adjacent to the future Wilshire/Fairfax Station. The construction of the shaft included furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft was maintained for an observation time period. Afterwards, the shaft was dismantled and the site backfilled in a condition acceptable to the property owner. The contract was substantially completed on October 31, 2014.

Contract C1048 – Wilshire/La Brea Advanced Utility Relocations

The work scope of this contract included the relocation of existing LADWP power, water utilities and a sewer line within the construction limits of the Wilshire/La Brea Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with the utility plans and specifications, provided traffic control, restored streets, and supported utility crews installing cabling and during cut-over of the existing utilities. The contract was substantially completed on October 27, 2014.

Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations

The work scope of this contract included the relocation of existing LADWP power and water utilities within the construction limits of the Wilshire/Fairfax Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with utility plans and specifications, provided traffic control, restored streets, and supported utility crews installing cabling and during cut-over of the existing utilities. The contract was substantially completed on October 7, 2015.

Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations

The work scope of this contract included the relocation of existing City of Beverly Hills water, storm drain and sewer utilities within the construction limits of the Wilshire/La

Cienega Station. The contractor was responsible for working in streets, procuring materials, and coordinating with the utility owner. The contractor constructed the new facilities in accordance with utility plans and specifications, provided traffic control, restored streets, and supported utility crews during cut-over of the existing utilities. The contract was substantially completed on August 5, 2016.

Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

The procurement of this contract utilizes a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

The Design/Build contract provides for final design and construction of the infrastructure along the 3.92 mile alignment. Contract scope includes demolition and removal of structures and clearing sites to facilitate construction operations. The structures to be constructed include twin bored tunnels, complete with cross-passages and walkways, including all mechanical, electrical and finish work. A retrieval shaft will be constructed to the west of the existing Wilshire/Western Station for extraction of the tunnel boring machines. Three underground stations are to be constructed, two with double-crossovers, and the terminus station to include tail tracks. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work includes all architectural finishes, mechanical, electrical, systems and equipment including train control, traction power, communications, trackwork and the system tie-in to the existing Metro Purple Line, testing and commissioning.

Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building
Location 64

The Design/Build contract provides for final design and construction of a new Maintenance-Of-Way (MOW) stores and Non-Revenue Vehicle (NRV) building at the south end of the existing Division 20 Yard (Location 64). The displacement of the existing MOW stores building and NRV facility are due to the proposed turn-back facility site in the yard.

Metro Furnished Equipment

Metro has procured a contract to provide 34 Heavy Rail Vehicles (HRV) necessary to operate the extension to the Purple Line. An additional contract will be procured for the Universal Fare System (UFS). The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract will include design, fabrication and installation of equipment at the three stations and system testing.

Program Management

The Westside Purple Line Extension Section 1 Project is being managed under the direction of an Integrated Project Management Office (IPMO). WSP provides engineering and design support services, while the Westside Extension Support Team (WEST) provides construction management support services. An overview of staffing is provided under the Staffing section of this report. The on-site program management team is also supported by Metro Headquarters resources to include, but not limited to, engineering, risk management, environmental, quality management, operations and creative services departments.

Project Schedule and Budget: The Revenue Service Date (RSD) is planned for November 2023.

The Original Budget of \$3.2 billion reflects the Board approved Life of Project Budget, July 24, 2014, plus Finance Charges of \$0.4 billion. The Current Budget and Current Forecast remains the same this period at \$3.2 billion. A detailed Life of Project Budget forecast is included under the Budget and Cost Forecast Section of this report.

Funding has been secured from a variety of sources to include:

- Federal Section 5309 New Starts
- Federal Section 5339 Alternative Analysis
- Measure R – TIFIA Loan (Transportation Infrastructure Finance & Innovation Act)
- Measure R 35%
- State STIP RIP
- CMAQ (Congestion Mitigation & Air Quality)
- State Capital Project Loans
- City of Los Angeles

Construction and Community Relations: The Construction and Community Relations team is tasked with promoting the Project and performing public outreach within the community to keep stakeholders informed of construction activities occurring along the Project alignment. To facilitate the communication, community leadership councils have been formed which represent geographic-based constituent groups along the Project.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed keep the public informed and excited about the Project. These efforts are aimed at promoting businesses that are affected by construction. An overview of monthly activities is presented in the Construction and Community Relation section of this report.

Start Up: The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a “stress test” of maximum operational service levels to be acceptable. Pre-Revenue Operations include train runs, especially those involving multiple trains, on the integrated and fully operational extension; rehearsal of expected revenue operations scenarios; as well as abnormal and emergency scenarios in which random combinations of system interactions are tested; equipment “burned-in”; and training of Metro personnel who will eventually operate and maintain the extension and for emergency services personnel. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

EXECUTIVE SUMMARY

In August, the Project achieved 40.7% completion based on earned value measurements for design and construction. The focus of the Project remains on completing critical path construction activities, which currently include the assembly to the Tunnel Boring Machines (TBMs) at Wilshire/La Brea Station. The C1045 Design Build Contract is on schedule to complete by the June 15, 2023, contract completion date, and the forecast Revenue Service Date (RSD) for the Project remains November 8, 2023. The following is an overview of current design and construction activities.

Design Status

The C1045 Contractor, Skanska, Traylor and Shea (STS), and their final design team, Parsons Transportation Group (PTG), completed final design in June 2017.

For the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64 Contract (C1078), all Design Unit (DU) packages have been approved by Metro.

The Engineering Management Services (EMS) team continues to provide design support services during construction to both design build contracts.

Construction Status

At the Wilshire/Western TBM retrieval site, Level B excavation, waler/strut installation and installation of the Blast Relief Shaft (BRS) support system have been completed. Excavation toward Level C and dewatering activities continue.

On July 13, 2018, TBM components began being lowered into the Wilshire/La Brea Station box for assembly. TBM assembly and installation of screw conveyors, ring erectors, tunnel related trackwork and gantry supports continue. Station concrete activities for interior load bearing walls are planned to continue after TBM launch.

Excavation toward subgrade elevation moves forward at the Wilshire/Fairfax Station and Level D waler/strut installation continues. Work on the pipe canopy, shotcrete of the tunnel eye and the installation of soil nails on the east end of the station is ongoing.

Level A excavation and waler/strut installation for the main station box continues at Wilshire/La Cienega Station. The hanging of utilities is nearly complete. Work on connecting the dewatering wells continues.

The two, Herrenknecht Tunneling Systems USA, Inc., Tunnel Boring Machines (TBMs) were delivered to the United States in December 2017. Tunnel instrumentation installation along Reach 1 is nearly complete. Tunneling is planned to start in September 2018.

For the Division 20 Maintenance-of-Way and Non-revenue Vehicle Building Location 64, work on the building envelope is nearly complete with temporary 'dry-in' of the building anticipated in early September 2018. Interior MEP rough-in continues on all three levels while framing and drywall work progresses. Testing on fire sprinklers, domestic water and

gas piping is ongoing. At the Division 20 Parts and Storage Expansion, metal decking is complete and slab on deck activities have started.

Cost and Schedule Summary

For the C1045 Design/Build contract, Metro has received the August 2018 schedule update, which reports that Substantial Completion is on schedule to finish by the June 15, 2023, contract completion date.

The Critical Path (CP) of the Project runs through TBM Assembly at Wilshire/La Brea Station, tunnel mining, tunnel concrete/MEP and trackwork installation along Reach 1 (Wilshire/La Brea Station to Wilshire/Western TBM Retrieval Shaft), followed by Systems, Testing and Pre-Revenue Operations. A summary graphic of the critical path is found on Page 13.

C1045 Design-Build Contract Schedule Metrics

	Original Contract Date/Duration	Time Extension (CD)	Current Contract Schedule	Forecast (Metro PMS)	Variance CD (Trending)
NTP	01/12/2015				
Substantial Completion	06/9/23	6	06/15/23	06/15/23	0 days

Project costs continue to track within budget and projected contingency limits. To date, the Current Budget and Current Forecast remains the same this period at \$3.2 billion. There are no claims on the Project. Detailed cost and budget information is provided on Page 15.

Key Management Concerns

No concerns to report at this time.

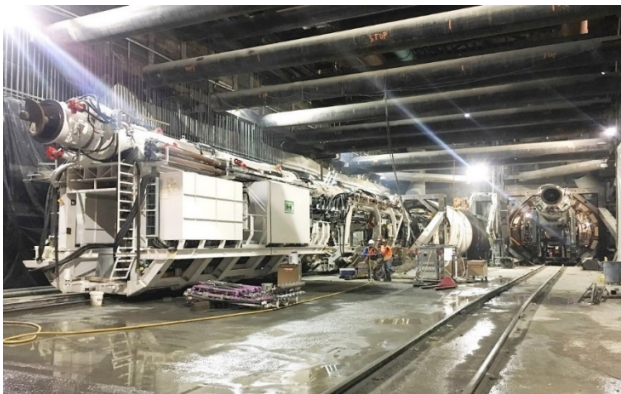
Project Construction Photos



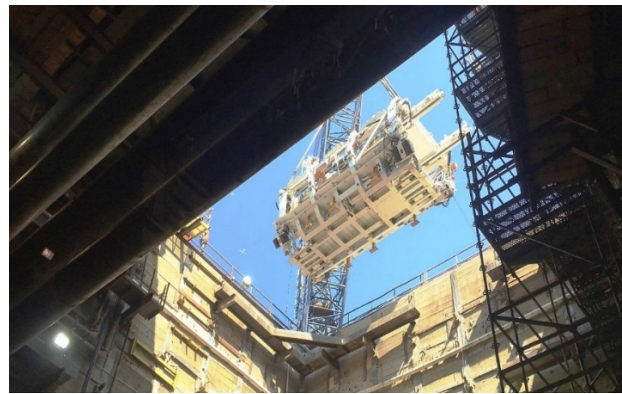
Excavation under the BRS at Wilshire/Western



Division 20 Building – Slab on Grade Activities



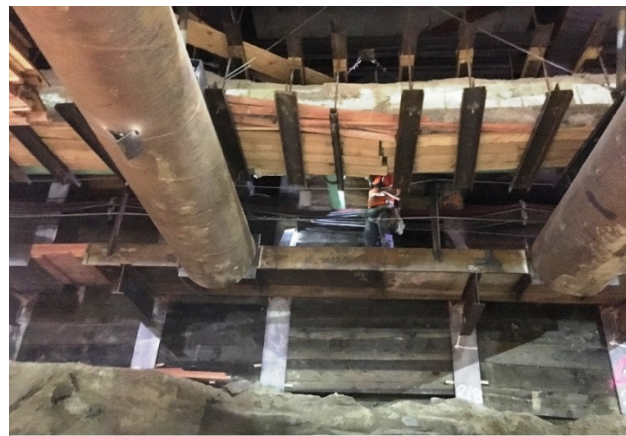
TBM Assembly at Wilshire/La Brea Station



Lowering TBM Equipment at Wilshire/La Brea Station



Crane Pads Set near Wilshire/Fairfax Subgrade

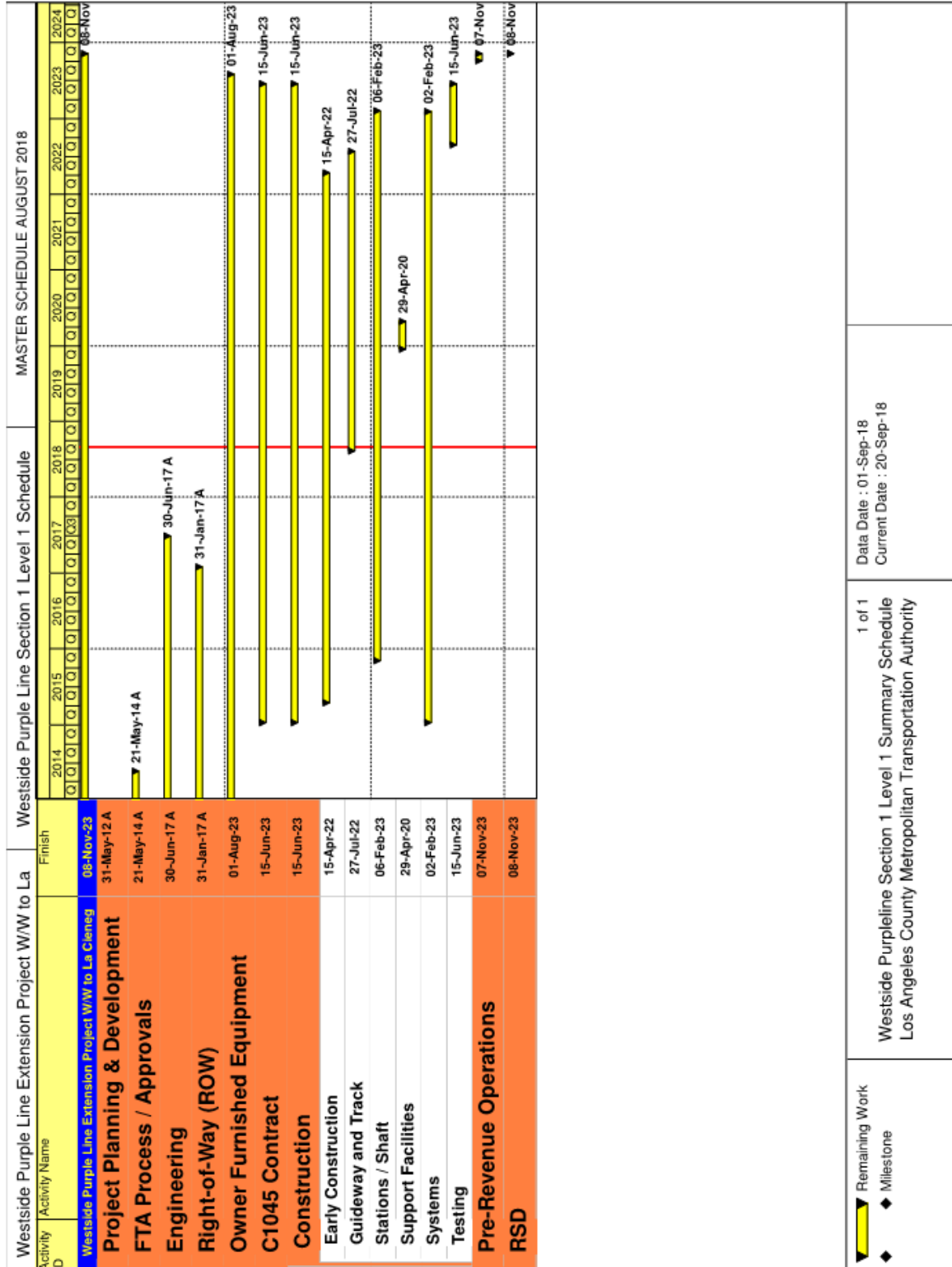


AT&T Ductbank at Wilshire/La Cienega Station

PROJECT STATUS

PROJECT SCHEDULE

Project Summary Schedule

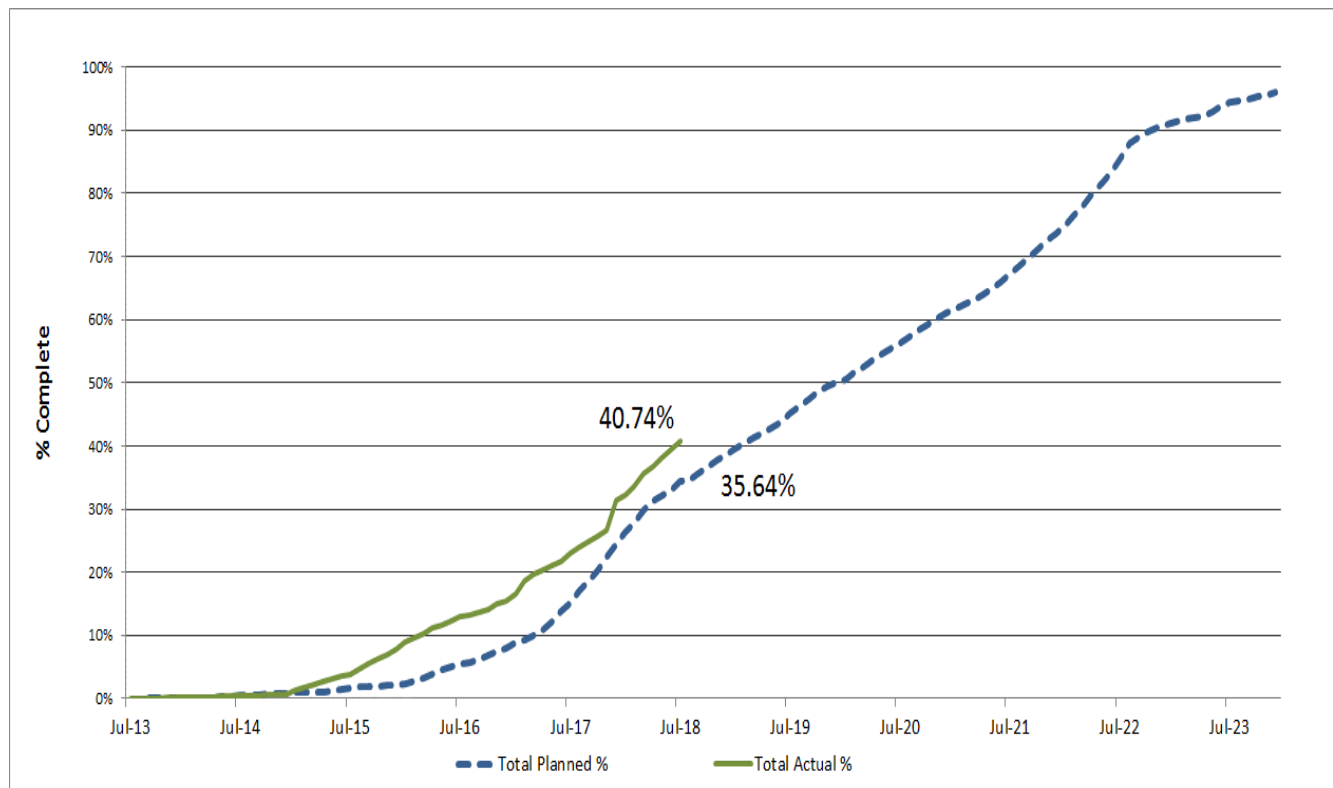


Progress Summary

	Status	Change from Last Period	Comment
Forecast Revenue Service	11/8/2023	0 CDs	
TIFIA Revenue Service	10/31/2024	None	
FFGA Revenue Service	10/31/2024	None	
Final Design Progress:			
Contract C1045	100.0%	0%	
Contract C1078	92.7%	1%	
Construction Contracts Progress:			
Contract C1048	100.0%	0.00%	Completed on Schedule
Contract C1045	37.8%	1.25%	
Contract C1055	100.0%	0.00%	Completed on Schedule
Contract C1056	100.0%	0.00%	Completed on Schedule
Contract C1078	65.2%	6.18%	

Note: Physical completion assessment reflects work completed and work in progress.

Planned vs. Actual Progress



Key Milestones

	Milestone Date	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19
Commenced TBM Assembly Testing at Wilshire/La Brea Station	08/15/18 A	⬡					
Completed Support of the Existing Blast Relief Shaft (Western)	08/27/18 A	⬡					
Complete Level C Excavation at Wilshire/Western Station	09/12/18		⬡				
Commence TBM #1 Mining Operation at Wilshire/La Brea Station	09/25/18		⬡				
Commence Level C Excavation at Wilshire/La Cienega Station	10/01/18			⬡			
Commence TBM #2 Mining Operation at Wilshire/La Brea Station	10/12/18			⬡			
Commence Concrete Work on Platform Interior Walls (La Brea)	11/03/18				⬡		
Complete Excavation at Wilshire/Fairfax Station	11/15/18				⬡		
Commence Fine Grade Activities at Wilshire/Fairfax Station	11/29/18				⬡		
Complete Temporary Support Slab at Wilshire/Western Station	12/10/18					⬡	
Commence Mud Slab Placement at Wilshire/Fairfax Station	01/14/19						⬡
Commence Placement of HDPE Membrane at Wilshire/Fairfax Sta.	01/30/19						⬡
 MTA Staff  C1045 D/B Contractor "A" following date is actual and completed							

Major Equipment Delivery Status

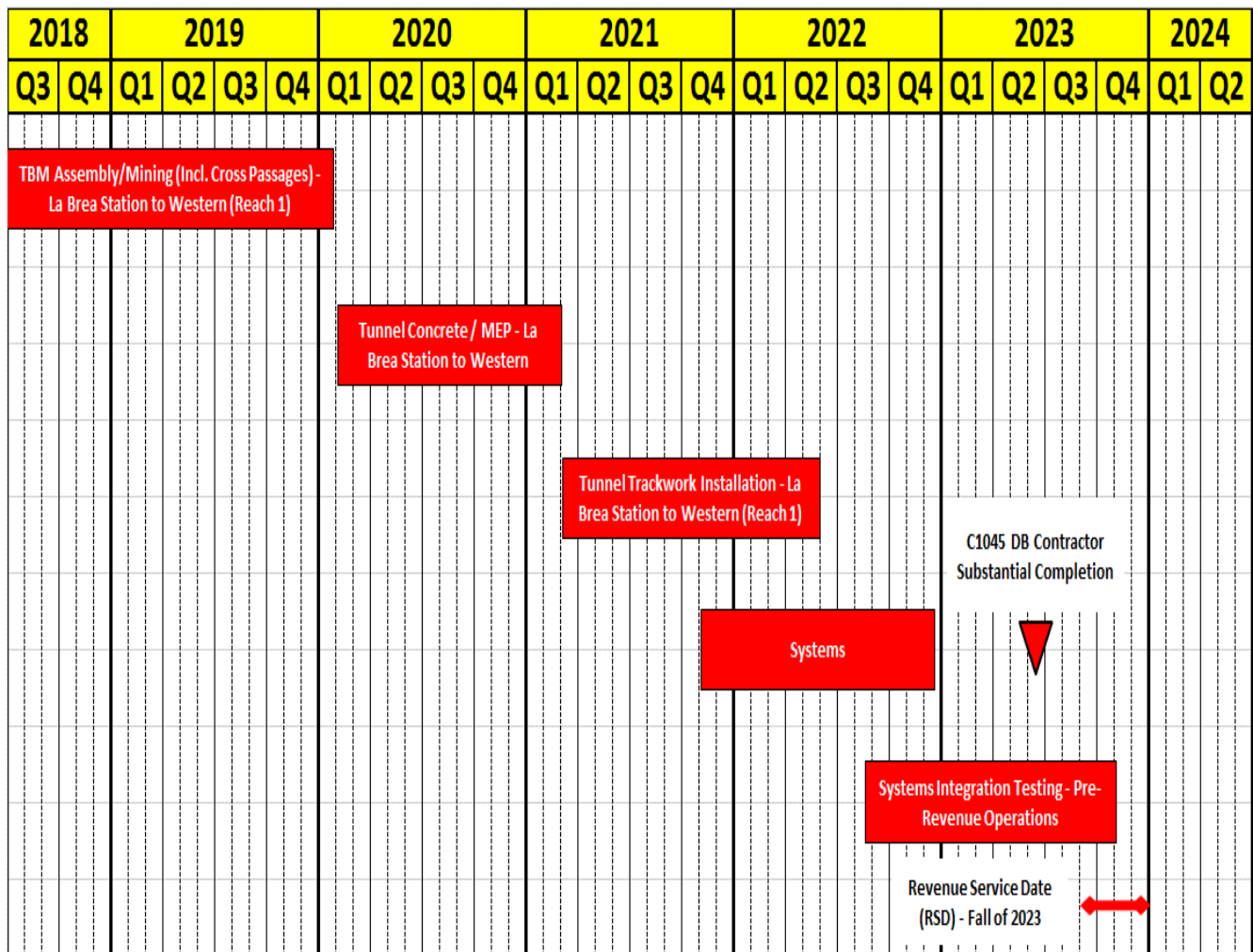
	Submittal	Procurement	Delivery	Installation
C1045 DESIGN/BUILD*				
Tunnel Boring Machine	1/29/16A	8/14/2017A	12/15/17A	7/13/18A
Emergency Ventilation Fans	2/18/19	5/9/19	6/17/20	6/18/20
Station Elevators	27-Apr-18 A	11/30/18	11/10/19	8/17/21
Station Escalators	27-Apr-18 A	27-Apr-18 A	1/9/20	8/17/21
Track - Running Rail	11/30/18	1/9/19	9/6/19	12/17/19
Traction Power Equipment	11/30/18	2/12/19	6/4/19	6/16/20
Automatic Train Control	01-Apr-16 A	01-Jul-16 A	20-Dec-16 A	10/27/21
SCADA RTU System	02-Feb-17 A	16-Jan-18 A	18-May-18 A	5/13/21
Radio System	02-Feb-17 A	2/12/19	4/8/19	7/1/21
Heavy Rail Vehicles***	7/16/15A	4/4/19	3/31/22	1/9/23
Universal Fare System***	TBD	TBD	TBD	10/27/21

* Dates derived from STS's August 2018 Updated Schedule.

** Forecast release date by STS to UFS contractor access at stations.

*** Metro supplied equipment

Project Critical Path



For the month of August 2018, the critical path (CP) runs through TBM assembly, testing and launch.

On July 13, 2018, TBM components began being lowered into the station box for assembly. Current critical path activities include TBM assembly and installation of screw conveyors, ring erectors, tunnel related trackwork and gantry supports.

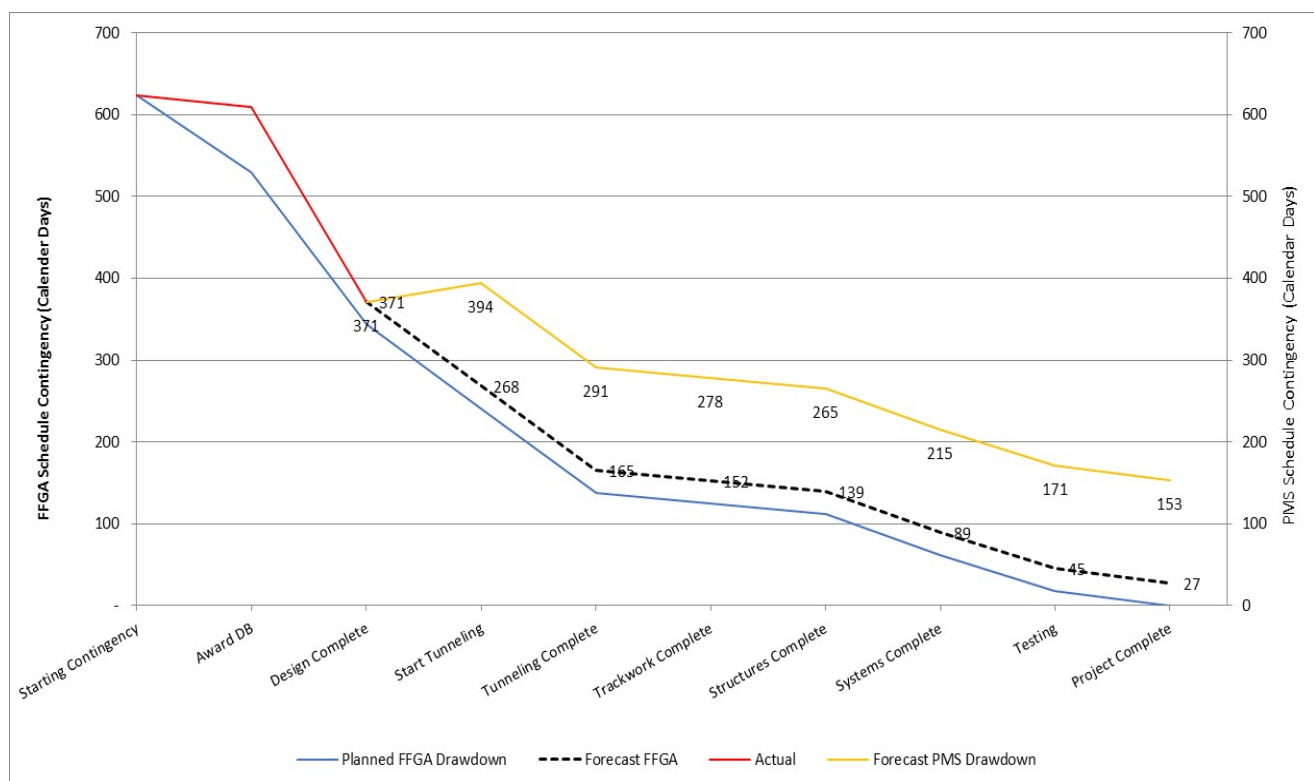
TBM tunneling is planned to start in September 2018.

Project Schedule Contingency Drawdown Analysis

The project schedule contingency drawdown model provides a dual-axis perspective based upon the FFGA RSD of October 2024 and Metro's Project Master Schedule (PMS) forecast of November 2023.

The introduction of the PMS model axis reflects a proportional distribution of available float relative to the FFGA model. Based on an anticipated TBM mining start in September 2018, schedule contingency would appear to be bolstered.

With regard to the FFGA RSD, schedule float of twelve months has been maintained.



PROJECT COST

Project Cost Analysis – 865518

DOLLARS IN THOUSANDS

SOC CODE	DESCRIPTION	ORIGINAL BUDGET	CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		CURRENT BUDGET / FORECAST VARIANCE
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	388,294	-	381,118	724	132,406	-	387,938	(356)
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	440,621	-	468,344	15,567	160,450	-	489,322	48,701
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	43,323	-	43,323	-	41,570	2,966	23,669	-	43,352	29
40	SITWORK & SPECIAL CONDITIONS	751,566	-	754,491	77	781,244	5,186	524,211	-	814,446	59,956
50	SYSTEMS	113,574	-	113,574	-	100,490	1,248	24,664	-	115,199	1,625
CONSTRUCTION SUBTOTAL (10-50)		1,737,378	-	1,740,303	77	1,772,765	25,692	865,400	-	1,850,257	109,954
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634	-	175,634	-	202,980	-	174,260	-	202,980	27,346
70	VEHICLES	160,196	-	160,196	-	98,118	-	14,607	-	108,302	(51,893)
80	PROFESSIONAL SERVICES	412,710	-	414,785	1,495	364,988	1,940	302,778	-	510,504	95,719
SUBTOTAL (10-80)		2,485,918	-	2,490,918	1,572	2,438,851	27,632	1,357,046	-	2,672,044	181,126
90	UNALLOCATED CONTINGENCY	248,592	-	248,592	-	-	-	-	-	111,871	(136,721)
100	FINANCE CHARGES	375,470	-	375,470	-	-	-	-	-	331,065	(44,405)
TOTAL PROJECTS 465518 & 865518 (10-100)		3,109,980	-	3,114,980	1,572	2,438,851	27,632	1,357,046	-	3,114,980	-
ENVIRONMENTAL/PLANNING - 405518		8,505	-	8,505	-	8,505	-	8,505	-	8,505	-
ENVIRONMENTAL/PLANNING - 465518		30,865	-	30,865	-	30,865	-	30,852	-	30,865	-
TOTAL PROJECTS 405518 & 465518 (ENV / PLANNING)		39,370	-	39,370	-	39,370	-	39,357	-	39,370	-
TOTAL PROJECTS 405518, 465518 & 865518		3,149,350	-	3,154,350	1,572	2,478,221	27,632	1,396,403	-	3,154,350	-

Original Budget:

The Original Budget of \$3.2 billion reflects the Board approved Life of Project Budget, July 24, 2014, plus Finance Charges of \$0.4 billion.

Current Budget and Current Forecast:

The Current Budget and Current Forecast remains the same this period at \$3.2 billion.

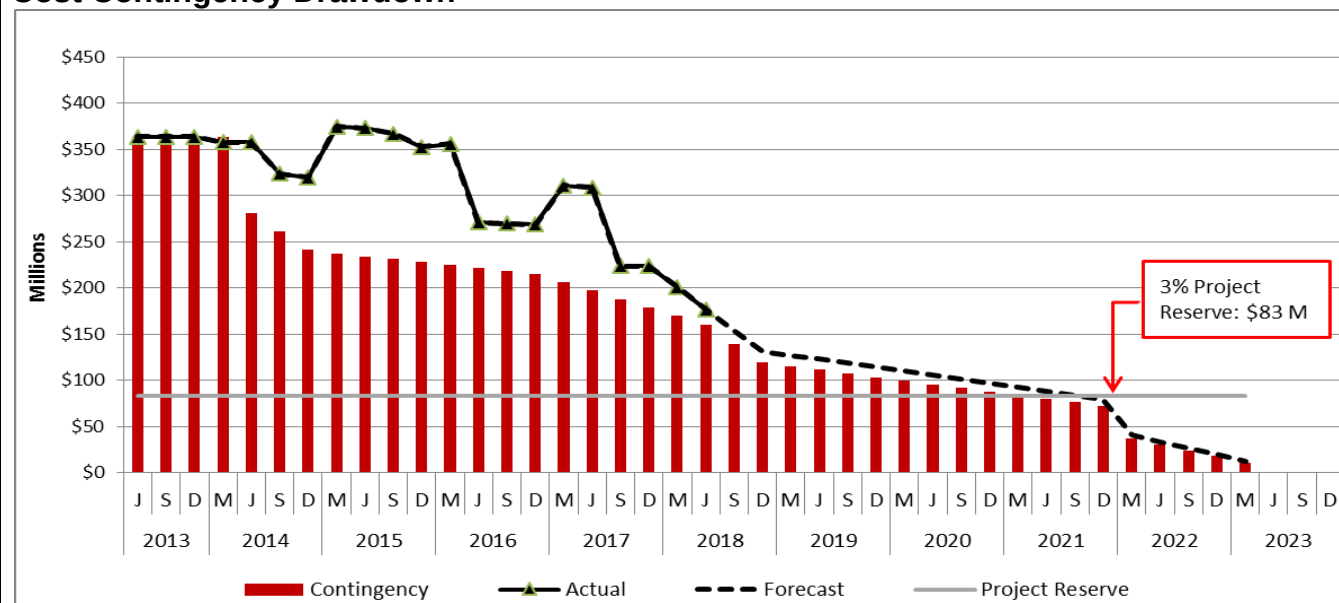
Commitments

The Commitments increased by \$1.6 million primarily due to an executed Contract Modification for the Design/Build Contract C1045, City of Beverly Hills Memorandum of Agreement (MOA), and continuation of Labor Compliance Monitoring Services. The \$2.5 billion in Commitments to date represents 78.6% of the Current Budget.

Expenditures

The Expenditures increased by \$27.6 million primarily for costs associated with the Design/Build Contracts C1045 and C1078, City of Beverly Hills Memorandum of Agreement (MOA), Engineering Management Services, and Metro Project Administration. The \$1.4 billion in Expenditures to date represents 44.3% of the Current Budget.

Cost Contingency Drawdown



Cost Contingency Drawdown Analysis

The Current Budget of \$3.2 billion (plus Finance Charges of \$0.4 billion) includes a project cost contingency of \$320.6 million or 10.2% of the total project. The project cost contingency of \$320.6 million is based upon the Life of Project (LOP) Budget that was approved by the Board in July 2014. The LOP Budget also included an allocated contingency amount of \$72.0 million. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro where applicable to specific contracts within each Standard Cost Category (SCC).

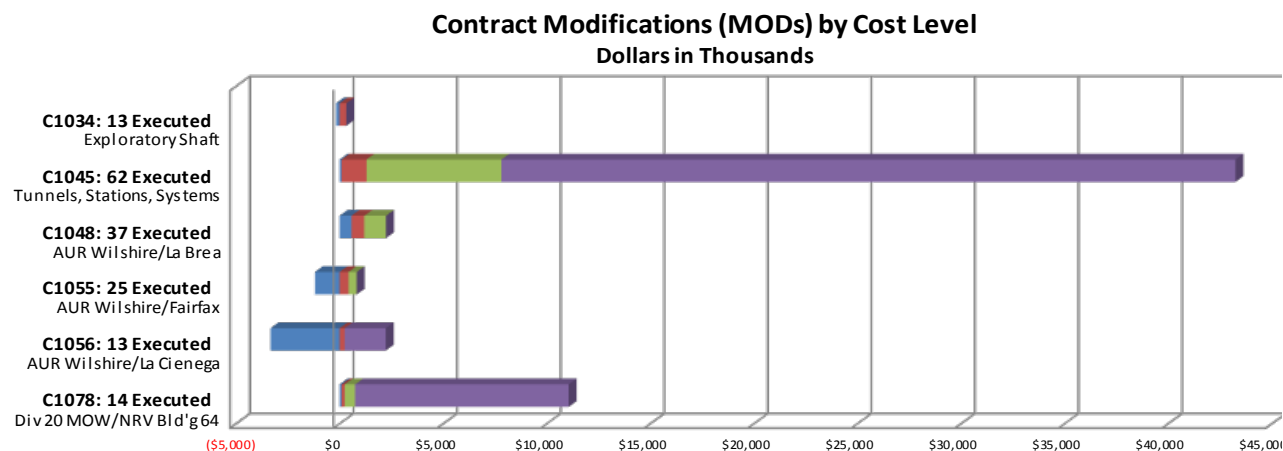
Included in the project cost contingency drawdown is a 3% project reserve threshold. Metro's Board is to be notified when it becomes necessary to drawdown contingency below the project reserve threshold to cover project costs. This was adopted by the Metro Board of Directors in September 2012.

The project cost contingency drawdown curve is based on a November 8, 2023 Revenue Service date.

The allocated contingency decreased this period by \$0.4 million due to an executed Contract Modifications for the Design/Build Contract C1045.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS					
	Original Contingency (Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)
Unallocated Contingency	248,592	(136,721)	-	(136,721)	111,871
Allocated Contingency	71,963	(6,482)	(372)	(6,855)	65,109
Total Contingency	320,555	(143,203)	(372)	(143,576)	176,980

Summary of Contract Modifications



	C1034 13 Executed	C1045 62 Executed	C1048 37 Executed	C1055 25 Executed	C1056 13 Executed	C1078 14 Executed	Total
■ Under \$100K	(164)	95	574	(1,179)	(3,325)	99	(3,900)
■ \$100K to \$250K	321	1,206	617	436	245	151	2,976
■ \$250K to \$1M	-	6,510	1,051	391	-	501	8,453
■ Over \$1M	-	35,438	-	-	1,983	10,309	47,730
Total Contract MODs	157	43,249	2,242	(352)	(1,097)	11,060	55,259
Contract Award Amount	6,487	1,636,419	6,181	14,430	20,250	52,830	1,736,597
% of Contract MODs	2.4%	2.6%	36.3%	-2.4%	-5.4%	20.9%	3.2%

Percent of Contract MODs equals the Total Contract MODs divided by the Contract Award Amount.

Thirteen Contract MODs with a total value of \$0.2 million have been executed since the award of Contract C1034 – Exploratory Shaft Construction by Innovative Construction Solutions (ICS). The contract has been completed and is closed out.

Sixty-two Contract MODs with a total value of \$43.2 million have been executed since the award of Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing by Skanska - Taylor - Shea, a Joint Venture.

Thirty-seven Contract MODs with a total value of \$2.2 million have been executed since the award of Contract C1048 – Advanced Utility Relocations at Wilshire/La Brea by Metro Builders & Engineering Group, LTD. The contract has been completed and is closed out.

Twenty-five Contract MODs with a total value of (\$0.4) million have been executed since the award of Contract C1055 – Advanced Utility Relocations at Wilshire/Fairfax by W. A. Rasic Construction Company, Inc. The contract has been completed and is closed out.

Thirteen Contract MODs with a total value of (\$1.1) million have been executed since the award of Contract C1056 – Advanced Utility Relocations at Wilshire/La Cienega by Steve Bubalo Construction Co. The contract has been completed and is closed out.

Fourteen Contract MODs with a total value of \$11.1 million have been executed since the award of Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

As of August 2018:

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C1045 Westside Purple Line Extension - Section 1

(Reported Data as of August 2018)

- **DBE Goal – Design**

A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area. 20.25%

- **Current DBE Commitment – Design**

Total DBE Committed Dollars divided by Total Contract Value for Design or Construction. \$13,119,472 (20.25%)

- **Current DBE Participation**

Total amount paid to date to DBEs divided by the amount paid to date to Prime. \$12,353,196 (19.44%)

Fourteen (14) Design DBE subcontractors have been identified to-date.

- **DBE Goal – Construction**

A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant. 17.00%

- **Current DBE Commitment – Construction**

Contract commitment divided by current contract value for Construction. \$266,155,899 (17.00%)

- **Current DBE Participation**

Total amount paid to date to DBEs divided by the amount paid to date to Prime. \$101,182,270 (15.83%)

One hundred-ten (110) Construction DBE subcontractors have been identified to-date.

PROJECT LABOR AGREEMENTS (PLA) STATUS

As of July 2018:

Contract C1045 Westside Purple Line Extension, Section 1 Design-Build
(Reporting Data as of July 2018)

- | | |
|--|--------|
| • Targeted Worker Goal | 40.00% |
| Construction work to be performed by residents from Economically Disadvantaged Area in the United States | |
| • Targeted Worker Current Participation | 64.40% |
| • Apprentice Worker Goal | 20.00% |
| Construction work to be performed by Apprentices | |
| • Apprentice Worker Current Participation | 17.07% |
| • Disadvantaged Worker Goal | 10.00% |
| Construction work to be performed by Disadvantaged Workers who are residents of the United States | |
| • Disadvantaged Worker Current Participation | 9.55% |

FINANCIAL/GRANT STATUS

Status of Funds by Source

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMITMENTS	(D/B)	(E) EXPENDITURES	(E/B)	(F) BILLED TO FUNDING SOURCE	(F/B)
				\$	%	\$	%	\$	%
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$365.000	\$1,250.000	100%	\$365.000	29%	\$365.000	29%
FEDERAL CMAQ	\$12.171	\$12.171	\$12.171	\$12.171	100%	\$12.171	100%	\$12.171	100%
FEDERAL SECTION 5339 - ALTERNATIVES ANALYSIS	\$0.512	\$0.512	\$0.512	\$0.512	100%	\$0.512	100%	\$0.512	100%
MEASURE R - TIFIA LOAN	\$856.000	\$856.000	\$340.644	\$340.644	40%	\$340.644	40%	\$340.644	40%
MEASURE R 35%	\$869.178	\$874.178	\$593.732	\$788.678	90%	\$591.860	68%	\$446.184	51%
STATE STIP RIP	\$2.568	\$2.568	\$2.568	\$2.568	100%	\$2.568	100%	\$2.568	100%
STATE CAPITAL PROJECT LOANS - OTHERS *	\$83.648	\$83.648	\$83.648	\$83.648	100%	\$83.648	100%	\$67.923	81%
CITY OF LOS ANGELES	\$75.273	\$75.273	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$3,149.350	\$3,154.350	\$1,398.275	\$2,478.221	78.6%	\$1,396.403	44.3%	\$1,235.002	39.2%

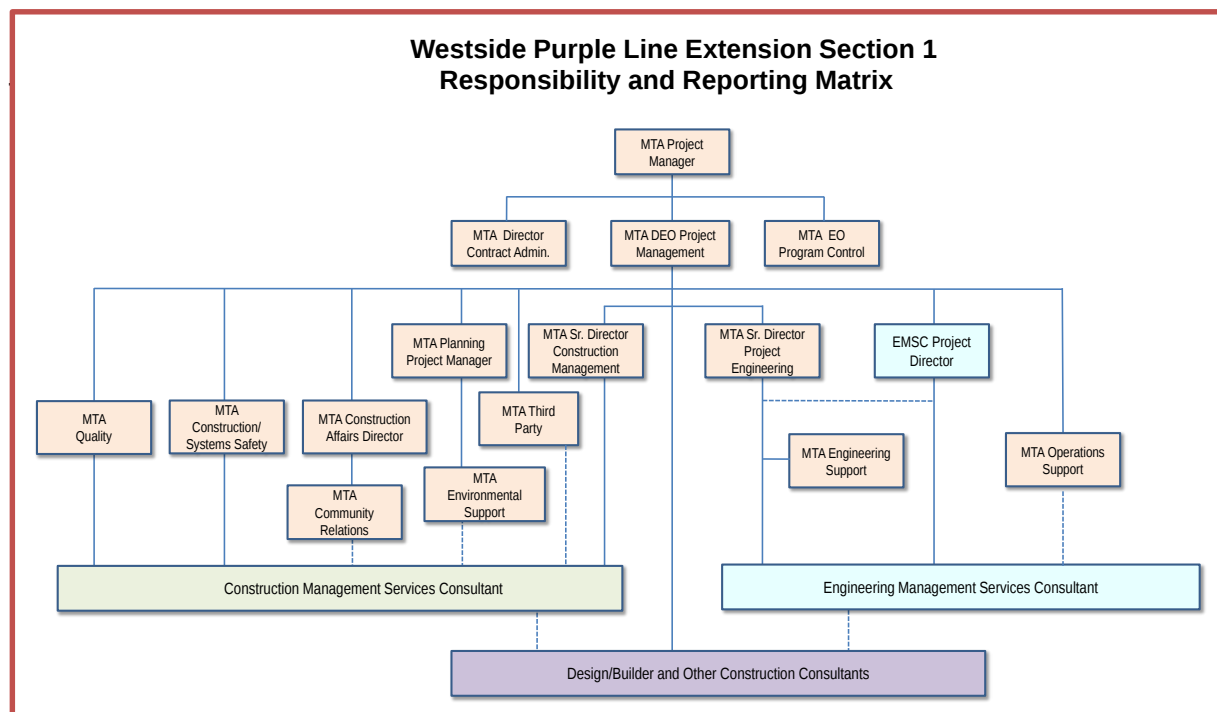
EXPENDITURES ARE CUMULATIVE THROUGH AUGUST 2018

ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET PLUS FINANCE CHARGES OF \$0.4 BILLION.

* OTHERS INCLUDE TDA ADMINISTRATION (\$4.1M), LTF GENERAL REVENUES (\$1.8M), AND LEASE REVENUES (\$37.8M)

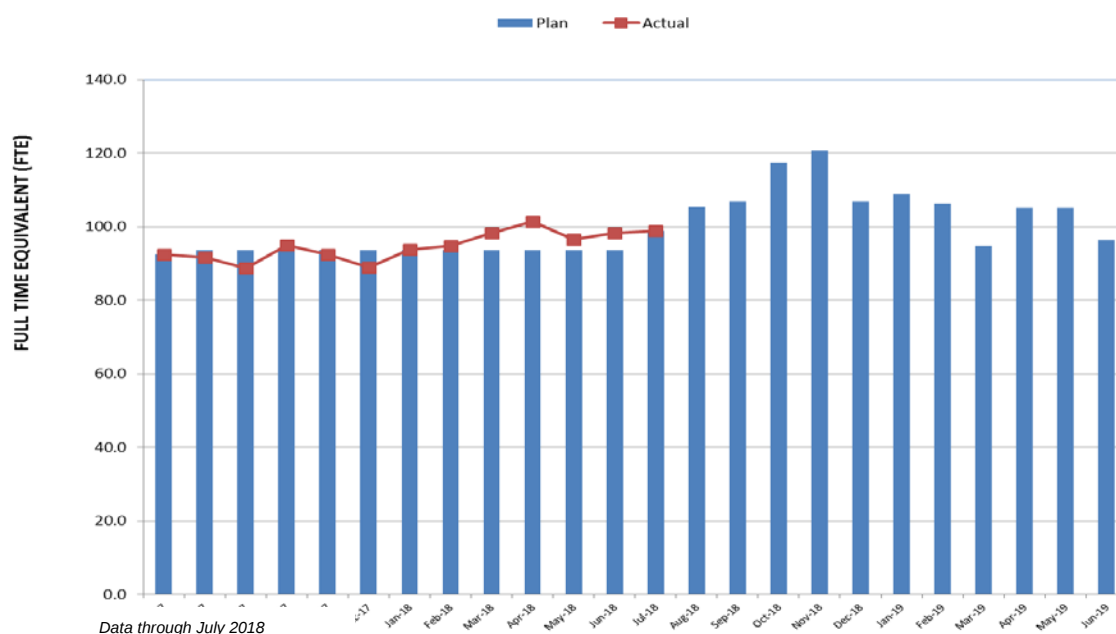
PROJECT ORGANIZATION AND STAFFING

The design-build contract is being managed by a joint team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO).



For July 2018, there were a total of 31.6 FTEs for MTA's Project Administration Staff and 67.3 FTEs for Consulting Staff. The total project staffing for July 2018 was 98.9 FTEs.

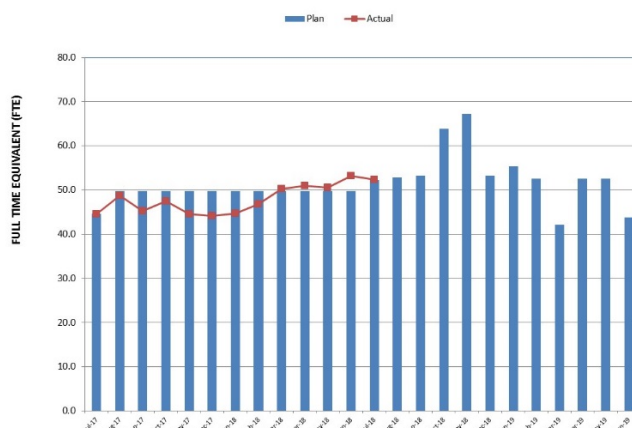
Total Project Staffing – Metro and Consultants



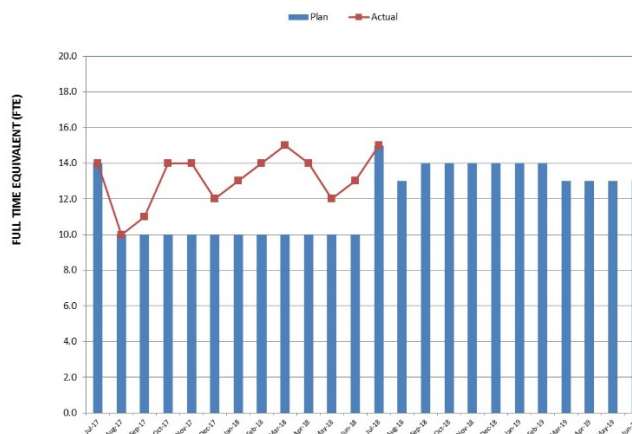
Metro Staff



CM Support Services Staff (Consultant)



Engineering Services Staff (Consultant)



All above data through July 2018

Staffing by Group

The opposing graphs represent planned vs. actual staffing levels by group.

Metro staffing includes full time staff located in the IPMO as well as part-time support located at Gateway Headquarters.

Staffing plans are developed for each fiscal year based on project needs.

REAL ESTATE STATUS

Purple Line Extension Section 1 - Real Estate Status Summary								
Description	Number of Parcels	Certified	Appraisals Completed	Offers Made	Agreements/ Settlements Signed	Relocations		Parcels Available
						Required	Completed	
Full Takes	9	9	9	9	8	109	109	9
Part Takes	6	6	6	6	6	0	0	6
TCE	4	4	4	4	2	0	0	4
Total Parcels	19	19	19	19	16	109	109	19

Metro has possession of all the parcels by either acquisition, possession and use agreements or stipulations. The C1045 contractor has possession of all properties needed to construct the Project.

There are three parcels at the Wilshire/Fairfax Station location that are still in the condemnation phase.

QUALITY ASSURANCE STATUS

C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

- Reviewed daily inspection reports from the Contractor/Field Technician and CMSSC oversight inspection personnel. Inspections show that the work is predominately compliant.
- Reviewed and provided comments on quality related submittals construction work plan, project specifications, product data and quality manuals.
- *Engaged in oversight for the excavation and installation of structural steel members for the Wilshire/La Cienega Station SOE and the Wilshire/Fairfax subgrade acceptance process.*
- *Processed 25 surveillances, 17 Quality Action Requests and 12 Nonconformance Reports and 1 Corrective Action Request.*

C1078 – Division 20 MOW and NRV Building Location 64

- Reviewed and provided comments on quality related submittals.
- Reviewed daily inspection reports from Contractor's quality assurance inspection team. Inspections show that the work is predominately compliant.
- *Processed 3 surveillances, 11 Quality Action Requests and 12 Nonconformance Reports.*

ENVIRONMENTAL STATUS

- *Conducted environmental review of Work Plans and attended Workshops and Readiness Review meetings for various upcoming activities including Wilshire/Fairfax Station grounding grid installation and gas venting, and Wilshire/Western Retrieval Site shotcrete.*
- *Evaluated various issues requiring expert interpretation, potential revision, or amendment to EIR/EIS mitigation measures including but not limited to landfill capacity, excavated soil production, waste classification, AQMD Rule 1166, and haul routes.*
- *Evaluated latest environmental sampling/monitoring results (soil, air, water, and noise) to confirm compliance to local and state regulatory requirements and assess possible changes to associated protocol, permits and project activities to meet project goals.*
- *Verified soil management practices for all stations, shafts and yards including stockpile management and track out.*
- *Conducted field environmental monitoring and spot inspections for construction noise, vibration, stormwater BMPs, dust and cultural resources for C1045, C1078, and Third Party work activities.*
- *Continuing to evaluate noise impacts during late night ventilation, excavation, and cross passage jet grouting activities.*

CONSTRUCTION AND COMMUNITY RELATIONS STATUS

Construction Relations

- *Produced and distributed eight construction work notices for construction activities.*
- *Produced and distributed weekly construction look ahead emails to construction stakeholders.*
- Held meetings and made Project Presentations at the following: Mid-City West Community Council, Elected Officials Briefing, Beverly Hills City Hall, elected official deputies, Construction Community Meetings and various stakeholders.
- Continued additional business mitigations including: alternative parking options, business signage, street signs and print ads at no cost to the businesses.
- Updated website, Facebook, Twitter as needed. Published monthly PLE (Purple Line Extension) newsletter to email list.
- Continued with the “Eat, Shop, Play Spotlight” campaign to advertise and promote businesses that participate in ESP Wilshire and Beverly Hills.

CREATIVE SERVICES STATUS

Community Relations

- Responded to RFIs and submittals.
- Continued design development for Wilshire Customer Center artwork relocation.
- *Completed art-related construction banner design and art project webpage for MOW Building Location 64.*
- *Shop drawings and field measurements are in progress for MOW Building Location 64.*
- *Issued station artist's contracts for execution.*

SAFETY & SECURITY STATUS

- There were no injury incidents during the month of August 2018.
- The C1045 Design Builder's construction activities (day, swing and weekend) and the C1078 Maintenance of Way Building site continue to be monitored to document contractor compliance with contract specifications.
- Metro Safety staff attended weekly Tool Box Meetings, Progress Meetings, readiness reviews, and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- *Metro Construction Safety hosted Monthly All Hands Safety Meeting for all Westside-Purple Line Extension Contractors on August 23, 2018.*
- Construction Safety staff work regularly with Program Management and Construction Relations staff to monitor issues related to public concerns regarding noise, traffic and public/construction interfaces as well as public interactions with the construction crews.
- *July 2018 Contractor Work Hours (Design & Construction): 91,359.*
- *Contractor - Project to Date Work Hours (Design & Construction) (through 07/31/2018): 2,426,765.*
- *Total Project to Date Work Hours (Contractor & the IPO Staff) (through 07/31/2018): 3,028,291.*
- Project to Date - Recordable Injury Rate: 0.9 (Thirteen Recordable Injuries) (each rate is per 200,000 work hours) (National Rate: 2.8).
- Project to Date - Total Days Away (DART) Injury Rate: 0.3 (Four Days Away/Restricted/Transferred (DART) Injuries) (National Rate: 1.7).
- Project to Date Total Days Away (DART) Rate: 28.1 (399 Days Away/Restricted/Transferred From Work) (No National Rate Published).
- National Rates for Heavy and Civil Construction (NAICS Code 237) are for Calendar Year 2016, published by USBLS in November 2017.

APPENDIX CHRONOLOGY OF EVENTS

June 2007	Began Alternatives Analysis study
January 2009	Board approval of Alternatives Analysis study and next phase
February 2009	Began Draft Environmental Impact Statement / Report (EIS / EIR)
October 2010	Board approval of Draft EIS / EIR and selection of locally preferred alternative
January 2011	FTA approval to enter Preliminary Engineering
May 2011	Began Preliminary Engineering
April 2012	Board certification of Final EIS / EIR and adoption of project
July 2012	Completion of Exploratory Shaft final design
August 2012	FTA Record of Decision
September 2012	Began Real Estate Acquisition
November 2012	Began Final Design - C1048 - Advanced Utility Relocations contract – Wilshire/La Brea
November 2012	Began Final Design - C1055 - Advanced Utility Relocations contract – Wilshire/Fairfax
November 2012	Issued RFQ for C1045 Design / Build contract
December 2012	Began Final Design - C1056 - Advanced Utility Relocations contract – Wilshire/La Cienega
January 2013	Began C1034 Exploratory Shaft construction
February 2013	Received RFQ responses for C1045 Design / Build contract
June 2013	Issued RFP for C1045 Tunnels, Stations, Trackwork, Systems and Systems Integration Testing
June 2013	Beginning of C1055 AUR Wilshire/Fairfax Bid Period
July 2013	Submitted draft FFGA application
July 2013	Completed Final Design - C1048 - Advanced Utility Relocations contract – Wilshire/La Brea

July 2013	Submitted TIFIA loan application
August 2013	Began C1048 Advanced Utility Relocations contract – Wilshire/La Brea
August 2013	NTP for Construction Management Support Services Contract
January 2014	Submitted application to FTA requesting an FFGA
January 2014	Received RFP Proposals for Contract C1045
February 2014	Beginning of C1056 AUR Wilshire/La Cienega Bid Period
May 2014	FTA awarded FFGA
May 2014	Received TIFIA Loan
June 2014	Began C1055 Advanced Utility Relocations at Wilshire/Fairfax
July 2014	Metro Board approved staff recommendation to award Contract C1045 and approved Life-of-Project Budget
September 2014	Issued Invitation to Bid for Contract C1078
October 2014	Issued C1056 Contract Award
November 2014	Issued C1045 Contract Award
January 2015	Issued C1045 Contract Notice to Proceed
January 2015	Issued C1056 Contract Notice to Proceed
February 2015	Received Contract C1078 Bids
August 2015	Issued C1078 Contract Award
September 2015	Issued C1078 Contract Notice to Proceed
October 2015	Contract C1055 achieved Substantial Completion
December 2015	Began piling operations for Wilshire/La Brea Station
June 2016	Began deck beam and decking operations for Wilshire/La Brea Station
August 2016	Began piling operations for Wilshire/Fairfax Station
August 2016	Contract C1056 achieved Substantial Completion
February 2017	Began deck beam and decking operations for Wilshire/Fairfax Station

March 2017	Began piling operations for Wilshire/La Cienega Station
June 2017	Decking operations for Wilshire/Fairfax Station are complete
September 2017	Began utility relocation work at the Wilshire/Western site
October 2017	Began street decking for Wilshire/La Cienega Station
November 2017	Began concreting activities for Wilshire/La Brea Station
December 2017	Structural steel erection commenced at the Division 20 Maintenance-of-Way and Non-revenue Vehicle Building Location 64
January 2018	Decking operations for Wilshire/La Cienega Station are complete
February 2018	Began invert slab concrete placement at the Wilshire/La Brea Station
April 2018	Wilshire/Fairfax Station excavation cleared the Paleo Zone (Elevation 105')
June 2018	Concrete wall pours needed to support TBM assembly at Wilshire/La Brea Station have been completed
July 2018	Began delivery of TBM components to the Wilshire/La Brea Station site