



October 21, 2021

TO: DISTRIBUTION

JAMES COHEN James Cohen FROM: EXECUTIVE OFFICER, PROJECT MANAGEMENT

SUBJECT: PURPLE (D LINE) EXTENSION PROJECT SECTION 1 SEPTEMBER 2021 QUARTERLY PROJECT STATUS REPORT

Enclosed herewith is the Quarterly Project Status Report for the Purple (D Line) Extension Project Section 1. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Purple (D Line) Extension Project Section 1 status for the period ending October 1, 2021.

If you have any questions regarding this report or its supporting information, please contact Salvador Chavez, Deputy Executive Officer, Program Control at (323) 900-2188.

JC: ah Enclosure

PURPLE (D LINE) EXTENSION PROJECT Section 1



Purple (D Line) Extension Project Section 1

QUARTERLY 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).

September 2021

TABLE OF CONTENTS

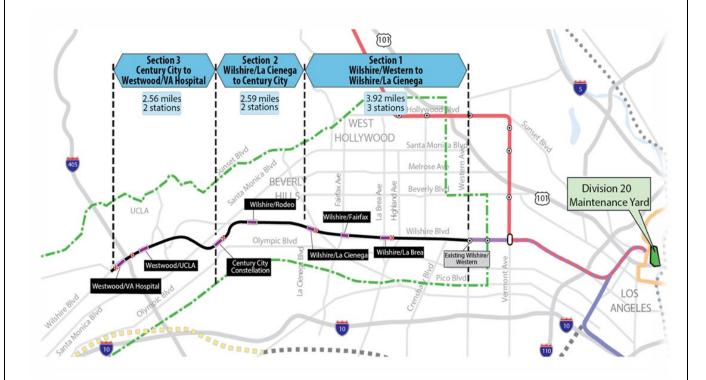
Executive Summary6Project Status10Project Schedule10Project Summary Schedule10Progress Summary11Planned vs. Actual Progress11Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Staffing22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices20Chronology of Events26	Project Overview	1
Project Schedule10Project Summary Schedule10Progress Summary11Planned vs. Actual Progress11Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Executive Summary	6
Project Summary Schedule10Progress Summary11Planned vs. Actual Progress11Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Project Status	10
Progress Summary11Planned vs. Actual Progress11Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Project Schedule	10
Planned vs. Actual Progress11Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Staffing23Real Estate23Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Project Summary Schedule	10
Key Milestones Six-Month Look Ahead12Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Progress Summary	11
Major Equipment Delivery13Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Planned vs. Actual Progress	11
Critical Path14Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Key Milestones Six-Month Look Ahead	12
Project Schedule Contingency Drawdown15Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Safety and Security29Appendices30	Major Equipment Delivery	13
Risk Management Narrative16Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Critical Path	14
Project Cost17Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Project Schedule Contingency Drawdown	15
Project Cost Status & Analysis17Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Risk Management Narrative	16
Cost Contingency Drawdown & Analysis18Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Project Cost	17
Summary of Contract Modifications19Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Project Cost Status & Analysis	17
Disadvantaged Business Enterprise (DBE)20Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Cost Contingency Drawdown & Analysis	18
Project Labor Agreement21Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Summary of Contract Modifications	19
Financial/Grant22Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Disadvantaged Business Enterprise (DBE)	20
Project Staffing23Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Project Labor Agreement	21
Real Estate25Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Financial/Grant	22
Quality Assurance Report26Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Project Staffing	23
Environmental27Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Real Estate	25
Construction and Community Relations28Creative Services28Safety and Security29Appendices30	Quality Assurance Report	26
Creative Services	Environmental	27
Safety and Security 29 Appendices 30	Construction and Community Relations	28
Appendices	Creative Services	28
	Safety and Security	29
Chronology of Events	Appendices	30
Shirohology of Events	Chronology of Events	30

PROJECT OVERVIEW

Project Background

Section 1 of the Purple (D 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 all three sections of the Project were environmentally cleared and adopted by LACMTA Board of Directors.

Section 1 will extend the existing Purple (D 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 Section1, 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 C1034. 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 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 and 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.

<u>Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing</u> 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 (D Line), testing and commissioning.

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

The Design/Build contract provided for the 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 former MOW stores building and NRV facility is due to the future turn-back facility site in the yard. The contract substantial completion date was extended from May 1, 2019 to August 31, 2019.

Metro Furnished Equipment

Metro has procured a contract to provide 34 Heavy Rail Vehicles (HRV) necessary to operate the extension to the Purple (D 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 systems testing.

Program Management

The Purple (D Line) Extension Project Section 1 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 including but not limited to engineering, risk management, environmental, quality management, operations and creative services departments.

<u>Project Schedule and Budget:</u> Based on a review of the project schedule, Metro has adjusted the Revenue Service Date (RSD) from the Fall of 2023 to the Fall of 2024.

The Original Budget of \$3.1 billion reflects the Board approved Life of Project Budget approved on July 24, 2014 plus Finance Charges of \$0.4 billion. Based on a review of the project budget, the Current Budget and Current Forecast have been adjusted to \$3.5 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

<u>Construction and Community Relations:</u> 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.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed to 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 Relations section of this report.

<u>Start Up:</u> 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 September 2021, the Project achieved 72.0% completion based on earned value measurements for design and construction. The current critical path of the Project remains Reach 1 (Wilshire/Western to Wilshire/La Brea) tunnel invert/walkway concrete activities.

The current monthly schedule update is being modified to reflect the current construction approach. The forecast Revenue Service Date (RSD) for the Project is Fall of 2024.

No adjustments to the C1045 Design/Build Contract substantial completion date of June 15, 2023 have been made to date.

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.

The Engineering Management Services (EMS) team continues to provide engineering services during construction to the C1045 Design/Build Contract.

Construction Status

Reach 1 (Wilshire/Western to Wilshire/La Brea) BR (North) tunnel invert and walkway concrete placement is complete. *To date, 58% of the Reach 1 BL (South) tunnel invert concrete has been placed, and walkway concrete activities have commenced. Reach 2 (Wilshire/La Brea to Wilshire/Fairfax) cross passage excavation continues. To date, two of six cross passages (CPs #16 & #20) have been excavated.*

Wilshire/La Brea Station: backfill (above the roof) activities continue along with west hammerhead and entrance structure work. Interior MEP rough-in work continues at the east concourse level rooms. *Work at Appendage #3 (Blast Relief Shaft) and at Appendage #4 (Exhaust Vent) move forward. Excavation at Appendage #5 (Emergency Exit) has started.*

Wilshire/Fairfax Station: all concrete roof sections (11 out of 16) for this phase of construction have been placed. Rebar installation continues at the west hammerhead south wall (Block 1 & 2). Entrance structure and work on Appendages A1C (Fan Room), A1D (Entrance Plaza), A2A (Supply Room/Exhaust), A2B (Emergency Exit) move forward. *Plenum steel installation at the concourse level has commenced.*

Wilshire/La Cienega Station: all major TBM components have been removed from the project site. Construction is on-going at Appendage AG (Emergency Exit), Appendage AF (Exhaust Vent) and Appendage AE (Traction Power/Blast Relief Shaft) construction moves forward. Work on the west hammerhead has started, and east hammerhead structure construction continues. Daily maintenance of dewatering wells continues along with maintenance of surface aesthetics per the City of Beverly Hills (COBH) Memorandum of Agreement (MOA).

Substantial completion for the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building Location 64 Contract (C1078) was extended to August 31, 2019. The final progress payment has been made. Contract close-out efforts continue.

The C1045 Design/Build Contractor has taken possession of the rail site at the Division 20 Rail Yard. The rail welding subcontractor commenced production welding on October 23, 2020. The welding of running rail at the Division 20 Rail Yard was completed on December 9, 2020. Rail deliveries from the rail yard to Wilshire/La Brea Station commenced on March 29, 2021. The first phase of rail movement is complete. The next phase is tentatively scheduled for Winter 2021.

Cost and Schedule Summary

Metro has received the September 2021 schedule update for the C1045 Design/Build Contract, and the schedule reports the substantial completion date 446 calendar days after the June 15, 2023 contractual date.

The current monthly schedule update is being modified to reflect the current construction approach. Once this plan/schedule is finalized, it will be incorporated into the monthly schedule update process. In the interim, the current monthly schedule will be maintained until the Contractor's updated plan is finalized. The Project's current target RSD is Fall 2024. No adjustments to the contractual substantial completion date of June 15, 2023 have been made to date.

The current critical path of the Project remains the Reach 1 (Wilshire/Western to Wilshire/La Brea) tunnel invert/walkway concrete activities followed by trackwork and systems installation, testing and pre-revenue operations. A summary graphic of the critical path is found on Page 14.

	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	09/3/24	2024	-446 days

C1045 Design-Build Contract Schedule Metrics

The Current Budget and Current Forecast for the Project are both \$3.5 billion. Detailed cost and budget information is provided on Page 17.

There is currently one (1) open claim that is being evaluated:

• Differing Site Conditions (DSCs) experienced during the Reach 2 tunnel drive (Claim 002).

Key Management Concerns

<u>Item 1</u>: The current monthly schedule update is being modified to reflect the current construction approach. The projected critical path in this revised schedule is Reach 2 cross passage excavation. Existing ground conditions may provide some challenges during this scope of work.

<u>Status/Action</u>: Reach 2 cross passage excavation commenced in August 2021. *Two out of six cross passages have been excavated (CPs #16 & #20).* The Project Team is closely monitoring the progress of this scope of work.

Purple (D Line) Extension Project Section 1 Quarterly Project Status Report

Project Construction Photos



Track & Block Delivery at the Division 20 Yard



HVAC Installation at Wilshire/La Brea Station



Interior Wall Formwork at Wilshire/La Cienega Station



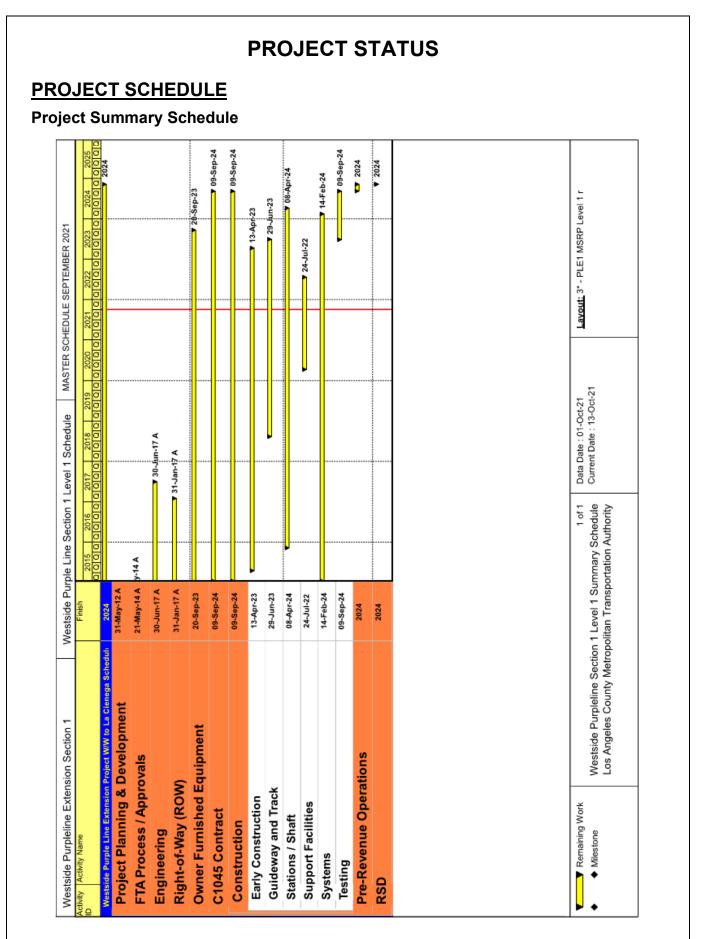
Hoisting Equipment through the Wilshire/Western Shaft



Plenum Steel Installation at Wilshire/Fairfax Station



Excavation at Cross Passage #16 (Reach 2)

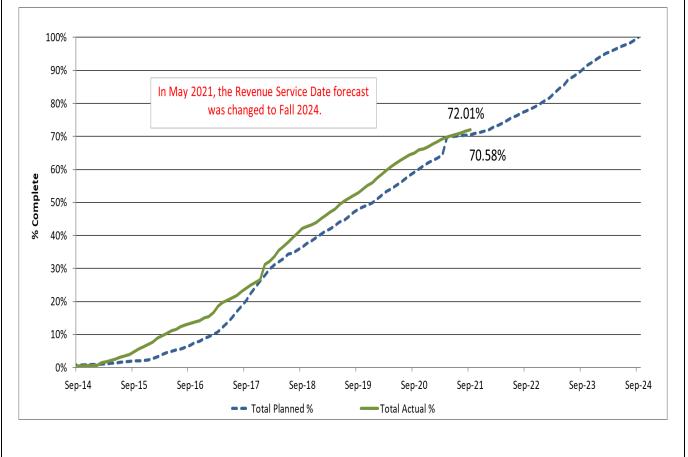


	Status	Change from Last Period	Comment
Forecast Revenue Service	Fall 2024	None	
TIFIA Revenue Service	10/31/2024	None	
FFGA Revenue Service	10/31/2024	None	
Final Design Progress:			
Contract C1045	100.0%	0.0%	
Contract C1078	100.0%	0.0%	
Construction Contracts Progre	SS:		
Contract C1048	100.0%	0.0%	Completed on Schedule
Contract C1045	70.0%	0.5%	
Contract C1055	100.0%	0.0%	Completed on Schedule
Contract C1056	100.0%	0.0%	Completed on Schedule
Contract C1078	100.0%	0.0%	Completed

Progress Summary

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

Planned vs. Actual Progress



Wilshire/La Cienega Station: Placed East Hammerhead Infill Slab Concrete Wilshire/La Brea Station: Completed Traffic Switch (Sycamore	Milestone Date	Sep-21					
			Oct-21	Nov-21	Dec-21	Jan-22	Feb-22
Wilshire/La Brea Station: Completed Traffic Switch (Sycamore	09/15/21 A	\bigcirc					
Appendage)	09/27/21 A	\bigcirc					
Wilshire/Fairfax Station: Completed Concrete Roof Placement (Block 4)	09/28/21 A	\bigcirc					
Wilshire/La Cienega Station: Place Invert Concrete (Block 15 South)	10/05/21		\bigcirc				
Reach 2 Cross Passages (CPs): Complete CP #16 Excavation	10/06/21		\bigcirc				
Commence Reach 1 Trackw ork Installation	10/20/21		\bigcirc				
Wilshire/La Cienega Station: Complete 1st Lift Wall (North) GL 31-33	11/15/21			\bigcirc			
Wilshire/La Cienega Station: Begin Concourse Rebar Work (GL 1-15)	11/29/21			\bigcirc			
Commence Reach 3 Cross Passage Excavation	12/26/21				\bigcirc		
Wilshire/Fairfax Station: Complete Appendage A1D (Entrance Plaza)	01/10/22					\bigcirc	
Wilshire/Fairfax Station: Complete Main Entrance Structure Construction	01/31/22					\bigcirc	
Complete Reach 1 Trackw ork Installation (BR Tunnel)	02/07/22						\bigcirc
 MTA Staff MTA Board Action Other Agencies Contractors "A" follow ing date is actual and completed 	🔺 Admi	(Federal Ti nistration) n Consultar		V —	Utility Con D/B Contr		

Major Equipment Delivery

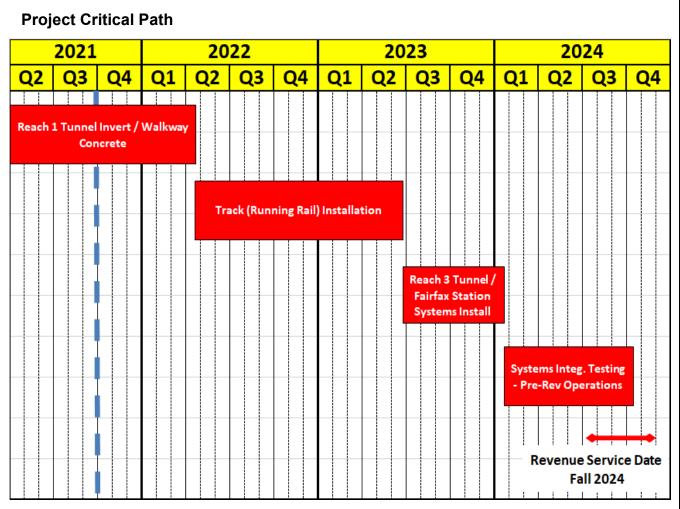
MAJOR EQUIPMENT DELIVERY

	Submittal	Procurement	Delivery	Installation
C1045 DESIGN/BUILD*				
Tunnel Boring Machine	1/29/16A	8/14/17A	12/15/17A	7/13/18A
Emergency Ventilation Fans	11/30/18A	4/1/19A	11/30/21	12/1/21
Station Elevators	4/27/18A	4/27/18A	9/1/22	6/27/23
Station Escalators	4/27/18A	4/27/18A	7/21/21A	1/9/23
Track - Running Rail	7/09/19A	8/09/19A	4/9/20A	10/15/21
Traction Power Equipment	10/5/21	3/31/22	8/15/22	10/7/22
Automatic Train Control	4/1/16A	7/1/16A	12/20/16A	12/15/22
SCADA RTU System	2/2/17A	1/16/18A	5/18/18A	2/15/22
Radio System	2/2/17A	2/03/20A	12/30/21	5/10/22
Heavy Rail Vehicles***	7/16/15A	5/1/19A	3/31/23	4/15/23
Universal Fare System**	02/15/21 A	11/17/21	9/14/22	1/12/23

* Dates derived from STS's September 2021 Schedule.

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

*** Metro supplied equipment



The re-sequenced schedule which reflects the current construction approach for the remainder of the Project was incorporated into the project schedule in July 2020.

For the month of September 2021, the critical path of the Project remains Reach 1 (Wilshire/Western to Wilshire/La Brea) tunnel invert/walkway concrete activities.

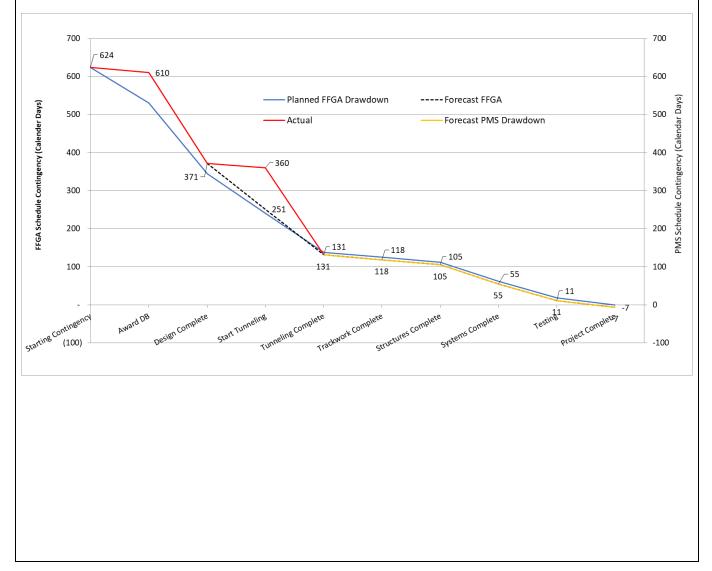
The current monthly schedule update is being modified to reflect the current construction approach. Once this plan/schedule is finalized, it will be incorporated into the monthly project schedule. In the interim, the current monthly schedule will be maintained until the Contractor's updated plan is finalized. The Project's current target RSD is Fall 2024.

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 newly adjusted Project Master Schedule (PMS) forecast RSD of Fall 2024.

The model has been updated to reflect both the completion of TBM tunnel mining in May 2021 and the adjusted Metro forecast RSD from Fall 2023 to Fall 2024. At the start of TBM mining in October 2018, there was a noticeable buffer of available float between the PMS model and the FFGA model. This float buffer has been eroded due to the impacts associated with the Reach 3 anomaly, which has hindered TBM tunnel mining progress resulting in a later than planned actual completion of this milestone.

The next planned update for this model is after completion of trackwork installation. The forecast completion timeframe for this milestone is the second quarter of 2023.



Risk Management Narrative

Summary of Risks

During the quarterly risk register meeting there was one (1) new risk identified. No risks were closed this period. A total of thirty-one (31) risks remains to be managed in the next quarter.

Of the thirty-one (31) risks, two (2) are scored as high, eight (8) as medium and twentyone (21) as low.

The next Purple (D Line) Extension Project Section 1 Risk Register quarterly update is scheduled for January 2022.

<u>Top Risks</u>

The table below shows the top Project risks:

Risk ID	Risk Description	Risk Score	Action Items
678.0	COVID-19 Pandemic Impact.	15	 Evaluate state and local government guidelines. Put contingency plans in place.
676.0	Subcontractor ability to get the required resources to perform work. Resource (Labor) shortage (Direct and Indirect).	10	 Actively manage schedule and resource needs.
203.1	Dewatering cost increase (main issues are for cross passages).	8	 Performing jet grouting. Reach 1 cross passage #7 is completed. Potential issues on cross passage #16 (Reach 2). Excavation has been completed. Reach 3 cross passages are in the process of being probed.
628.0	Systems integration with existing Purple Line at Wilshire/Western Station.	6	 Contractor complying with Systems Integration Plan [In Progress].

PROJECT COST

Project Cost Analysis – 865518

DOLLARS IN THOUSANDS

SCC CODE	DESCRIPTION	ORIGINAL BUDGET	CURREN	T BUDGET	СОММІ	TMENTS	EXPENDITURES		CURRENT FORECAST		CURRENT BUDGET / FORECAST
UUDL		BOBOLI	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	494,309	-	426,003	3,974	316,828	-	494,309	-
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	606,997	-	546,141	8,134	389,798	-	606,997	-
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	43,323	-	45,723	-	45,707	-	45,702	-	45,723	-
40	SITEWORK & SPECIAL CONDITIONS	751,566	-	824,103	75	805,332	2,839	677,729	-	824,073	(30)
50	SYSTEMS	113,574	-	122,195	-	102,507	1,318	38,924	-	122,225	30
	CONSTRUCTION SUBTOTAL (10-50)	1,737,378	-	2,093,328	75	1,925,690	16,265	1,468,982	-	2,093,328	-
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634	-	202,980	-	202,980	-	185,672	-	202,980	-
70	VEHICLES	160,196	-	108,302	-	98,248	1,761	26,311	-	108,302	-
80	PROFESSIONAL SERVICES	412,710	-	616,500	4,527	523,483	3,185	439,848	-	616,500	-
	SUBTOTAL (10-80)	2,485,918	-	3,021,110	4,602	2,750,401	21,211	2,120,812	-	3,021,110	-
90	UNALLOCATED CONTINGENCY	248,592	-	68,400	-	-	-	-	-	68,400	-
100	FINANCE CHARGES	375,470	-	375,470	-	-	-	-	-	375,470	-
	TOTAL PROJECTS 465518 & 865518 (10-100)	3,109,980	-	3,464,980	4,602	2,750,401	21,211	2,120,812	-	3,464,980	-
	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 / PLAN'G)	39,370	-	39,370	-	39,370	-	39,357	-	39,370	-
	TOTAL PROJECTS 405518, 465518 & 865518	3,149,350	-	3,504,350	4,602	2,789,771	21,211	2,160,169	-	3,504,350	-

Original Budget

The Original Budget of \$3.1 billion reflects the Board approved Life of Project Budget approved on July 24, 2014 plus Finance Charges of \$0.4 billion.

Current Budget and Current Forecast

The Current Budget and Current Forecast remain the same at \$3.5 billion.

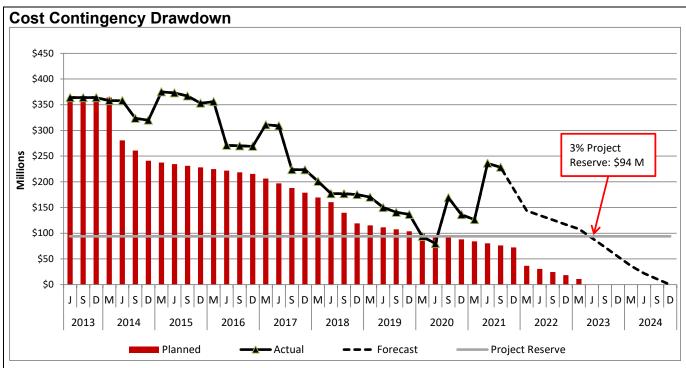
Commitments

The Commitments increased by \$4.6 million primarily due an executed Contract Modification for the C1045 Design/Build Contract, approved FY22 Annual Work Plan for the City of Beverly Hills Memorandum of Agreement (MOA), and continuation of Systems Engineering Design Support During Construction Services. The \$2.8 billion in Commitments to date represent 79.6% of the Current Budget.

Expenditures

The Expenditures increased by \$21.2 million for costs associated with the C1045 Design/Build Contract, Heavy Rail Vehicle Procurement Contract, Engineering Management Support Services, Construction Management Support Services, and Metro Project Administration. The \$2.2 billion in Expenditures to date represent 61.6% of the Current Budget.

Purple (D Line) Extension Project Section 1 Quarterly Project Status Report



Cost Contingency Drawdown Analysis

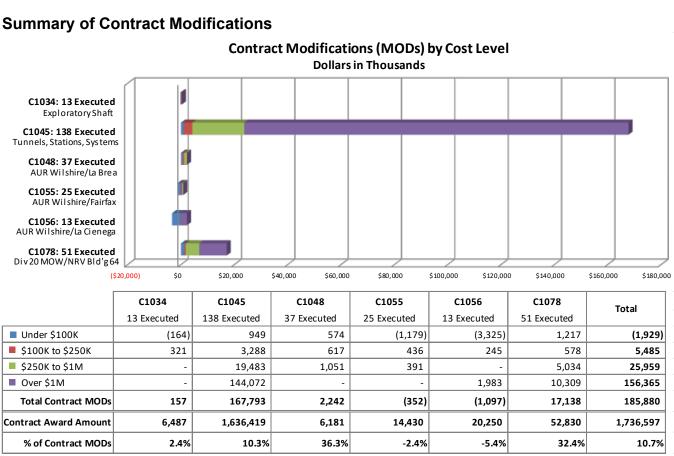
The Project's Original Budget of \$3.1 billion (plus Finance Charges of \$0.4 billion) included a project cost contingency of \$320.6 million or 10.2% of the total project budget. In June 2020, the remaining contingency balance was below the 3% project reserve threshold of \$83.4 million. To date, the Project has experienced higher than expected differing site conditions, an increase in third party and safety requirements, and changes in scope.

In May 2021, the Board approved to amend the Life-of-Project (LOP) budget to address the cost contingency drawdowns and fund ongoing construction and professional services expenses. The LOP budget was increased by \$150.0 million, and the 3% project reserve is now \$93.9 million.

The Project Cost Contingency Drawdown curve has been adjusted to reflect the Fall 2024 Revenue Service Date forecast.

The Allocated Contingency decreased this period by \$0.1 million due to an executed Contract Modification for the C1045 Design/Build Contract.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
Original Contingency (Budget)Previous PeriodCurrent PeriodTo-DateRemaining 								
Unallocated Contingency	248,592	(180,192)	-	(180,192)	68,400			
Allocated Contingency	71,963	87,991	(75)	87,916	159,879			
Total Contingency	320,555	(92,201)	(75)	(92,276)	228,279			



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.

One hundred and thirty-eight Contract MODs with a total value of \$167.8 million have been executed since the award of Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing by Skanska - Traylor - 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.

Fifty-one Contract MODs with a total value of \$17.1 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)

As of August 2021:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	20.25%
Current DBE Commitment Design	\$14.2 M
Total DBE Committed Dollars divided by Total Contract Value for Design	20.25%
Current DBE Participation	\$13.4 M
Total amount paid to date to DBEs divided by the amount paid to date to Prime	20.03%

Sixteen (16) Design DBE sub-consultants have been identified to date.

DBE Goal – Construction The percentage of funds apportioned to Construction Contracts	17.00%
Current DBE Commitment Construction	\$208.8 M
Contract commitment divided by current contract value for Construction	13.07%
Current DBE Participation	\$175.0 M
Total amount paid to date to DBEs divided by the amount paid to date to Prime	14.37%

One hundred fifty-one (151) Construction DBE sub-contractors have been identified to date.

PROJECT LABOR AGREEMENTS (PLA)

As of August 2021:

40.00%
61.90%
20.00%
20.00 /8
20.36%
10.00%
12.82%
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FINANCIAL/GRANT

Status of Funds by Source DOLLARS IN MILLIONS

SOURCE	(A) ORIGINAL BUDGET	ORIGINAL TOTAL BUDGET FUNDS		RIGINAL TOTAL TOTAL JDGET FUNDS FUNDS		(D) (D/B) COMMITMENTS			(E/B) NDITURES	(F) (F/B) BILLED TO FUNDING SOURCE	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%		
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$762.711	\$1,250.000	100%	\$705.000	56%	\$704.384	56%		
FEDERAL - SECTION 5309 NEW STARTS (ARPA-CIG**)	\$0.000	\$66.429	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%		
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	\$749.306	\$749.306	\$749.306	100%	\$749.306	100%	\$749.306	100%		
MEASURE R 35%	\$869.178	\$1,297.193	\$932.750	\$723.026	56%	\$638.424	49%	\$615.151	47%		
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	\$50.898	\$50.898	\$50.898	100%	\$50.898	100%	\$50.898	100%		
CITY OF LOS ANGELES	\$75.273	\$75.273	\$1.290	\$1.290	2%	\$1.290	2%	\$1.290	2%		
TOTAL	\$3,149.350	\$3,504.350	\$2,512.206	\$2,789.771	79.6%	\$2,160.169	61.6%	\$2,136.280	61.0%		

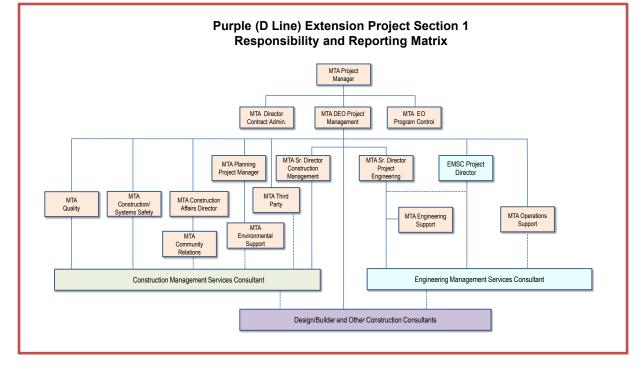
EXPENDITURES ARE CUMULATIVE THROUGH SEPTEMBER 30, 2021

ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET

*OTHERS INCLUDE Prop A/C/TDA Admin (\$4.1M), General Fund (\$1.8M), and State Capital (\$45.0M) **AMERICAN RESCUE PLAN ACT - CAPITAL INVESTMENTS PROGRAM (ARPA-CIG)

PROJECT ORGANIZATION AND STAFFING

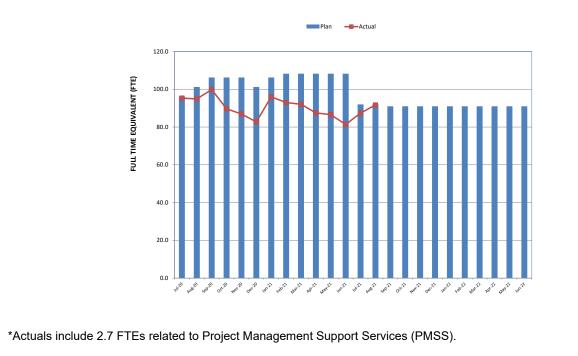
The Design-Build Contract is being managed by a joint team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO).



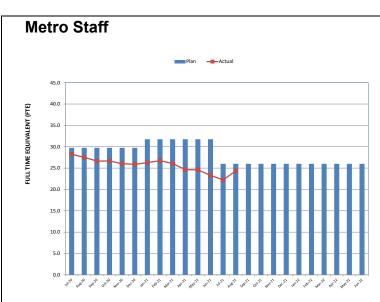
The overall FY22 Total Staffing Plan averages 91.2 FTEs per month.

For August 2021 there were a total of 24.3 FTEs for MTA's Project Administration Staff and 67.4 FTEs for Consulting Staff. The total Project staffing for August 2021 was 91.7* FTEs.

Total Project Staffing – Metro and Consultants



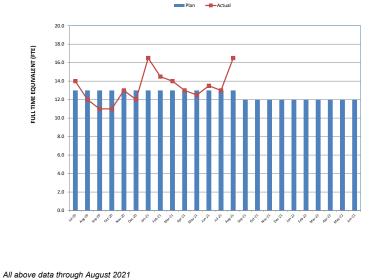
Purple (D Line) Extension Project Section 1 **Quarterly Project Status Report**



CM Support Services Staff (Consultant)



Engineering Services Staff (Consultant)



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								
Purple Line Extension Section 1 - Real Estate Status Summary								
Description	Number of Parcels	Certified	Appraisals Completed	Offers Made	Agreements/ Settlements Signed	Relocations		Parcels
						Required	Completed	Available
Full Takes	9	9	9	9	9	109	109	9
Part Takes	6	6	6	6	6	0	0	6
TCE	4	4	4	4	3	0	0	4
Total Parcels	19	19	19	19	18	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 along the alignment needed to construct the Project.

There remains one parcel at the Wilshire/Fairfax Station location in the condemnation phase. The final settlement agreement is still being closed out. The closeout date has not been established at this time.

QUALITY ASSURANCE

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.
- Station quality progress:
 - Wilshire/La Brea engaged in oversight activities for application of wall and ceiling coatings, CMU construction of rooms at concourse level, earthwork/backfill station roof, fire stop installation, seismic angle installation and appendages.
 - Wilshire/Fairfax engaged in oversight activities for construction of station entrance structure, east and west hammerhead wall structure as well as roof and appendage structures.
 - Wilshire/La Cienega engaged in oversight activities for construction of station entrance structure, invert fill, hammerhead end wall, appendage structures, and gas venting mat system.
 - Reach 1– engaged in oversight of tunnel invert and walkway structures.
- Processed 46 surveillances, 23 Quality Action Requests (QARs), 31 Nonconformance Reports (NCRs) and one (1) Corrective Action Request (CAR).

C1078 – Division 20 MOW and NRV Building Location 64

- The Project is in the final phase of completing punch list items.
- Processed two (2) surveillances, 11 QARs (all closed), 17 NCRs and one (1) CAR.

ENVIRONMENTAL

- The City of Los Angeles Board of Public Works accepted the Project's CEQA analysis for the closure of approximately 200 feet of South Sycamore Avenue at the south side of Wilshire Boulevard for approximately eight months for appendage construction.
- Attended pre-construction workshops, inspected the Project site including Division 20 yard and coordinated with contractor to improve SWPPP adherence and BMP maintenance.
- Attended workshops for new excavation areas (Wilshire/La Cienega Station appendages and Wilshire/La Brea Station Entrance).
- Reviewed noise monitoring data project-wide to support construction relations responses to public inquiry.

CONSTRUCTION AND COMMUNITY RELATIONS

- Attended monthly/weekly meetings with City of Los Angeles Department of Transportation, virtual Neighborhood Council and monthly environmental mitigation meetings as well as held meetings online and made Project presentations to Beverly Hills residents and business stakeholders, elected officials' deputies, various stakeholders and at construction community meetings.
- Continued with the "Eat, Shop, Play Spotlight" (ESP) campaign to advertise and promote businesses that participate in ESP Wilshire and Beverly Hills, specific to eateries and other service-oriented businesses that remain open or have reopened for onsite pick-up and delivery during COVID-19 restrictions.
- Continued additional construction mitigations including business signage, street signs and print ads at no cost to the businesses.
- Corresponded with and presented to Los Angeles City Council district offices, Greater Miracle Mile Chamber of Commerce, Board of Public Works and City of Beverly Hills regarding construction effects on traffic, and shared major stakeholder concerns.
- Updated website, Facebook, Twitter as needed. Published monthly PLE (Purple Line Extension) newsletter to email list. Placed monthly ads in local papers.
- Tours were suspended due to COVID-19.
- Produced and distributed:
 - Nine (9) construction work notices for construction activities;
 - The La Cienega Monthly Look Ahead;
 - Weekly look-ahead for Division 20;
 - Weekly construction look-ahead emails to construction stakeholders; and
 - Monthly look-ahead emails for the City of Beverly Hills.

CREATIVE SERVICES

- Ongoing station signage for continuity of customer experience between sections.
- Continued coordination with Design/Builder on design development for artwork lighting.
- Continued coordination with Design/Builder for artwork fabrication procurement.

SAFETY & SECURITY

- There were no recordable injuries or COVID-19 cases in September 2021.
- Metro Safety staff conducted daily safety inspections, attended weekly Toolbox, Progress, readiness review and other Project meetings to evaluate Contractor's safety program compliance with contract requirements.
- Metro Safety staff worked 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.
- Mining of cross-passages is ongoing for Reach 2.
- August 2021 Contractor Work Hours (Design & Construction): 81,206
- RCC late hours reported from January to August: 6,426
- Contractor Project to Date Work Hours (Design & Construction) (through 8/31/21): 4,968,226
- Total Project to Date Work Hours (Contractor & the IPO Staff) (through 8/31/21): 6,157,611
- Project to Date Recordable Injury Rate: 1.27 (39 Recordable Injuries) (each rate is per 200,000 work hours) (National Rate: 2.4)
- Project to Date Total Days Away (DART) Injury Rate: 0.10 (3 Days Away or Lost Time) (each rate is per 7 Days/Time Away from Work Injuries) (National Rate: 1.5)

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

Purple (D Line) Extension Project Section 1 Quarterly Project Status Report

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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
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Purple (D Line) Extension Project Section 1 Quarterly Project Status Report

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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
October 2018	The Reach One (1) mining operation commenced with the launch of TBM #1 from Wilshire/La Brea Station.
November 2018	TBM #2 was launched from Wilshire/La Brea Station.
December 2018	The bottom of excavation was reached at the Wilshire/Western TBM Retrieval site.
January 2019	The temporary concrete slab at the Wilshire/Western TBM Retrieval site was placed.
February 2019	Reached the bottom of excavation at Wilshire/Fairfax Station.
March 2019	Completed mud mad placement at Wilshire/Fairfax Station.
April 2019	HDPE protection slab placement commenced at Wilshire/Fairfax Station.
May 2019	Substantial Completion for the C1078 Contract (Division 20 MOW/NRV Building Location 64) was achieved on May 1, 2019.
June 2019	Both TBM #1 (Soyeon) and TBM #2 (Elsie) completed the Reach One (1) tunnel alignment mining.

July 2019	Began transport of both TBMs (#1 Soyeon and #2 Elsie) from the Wilshire/Western Shaft to Wilshire/La Brea Station.
August 2019	Completed invert concrete placement at Wilshire/Fairfax Station.
September 2019	Bottom of excavation reached at Wilshire/La Cienega Station.
October 2019	TBM #2 (Elsie) commenced Reach #2 tunnel drive.
November 2019	Completed 1 st lift exterior wall concrete placement at Wilshire/Fairfax Station.
December 2019	Commenced station invert concrete placement at Wilshire/La Cienega Station.
January 2020	Commenced Reach 1 cross passage excavation.
February 2020	Completed Wilshire/La Cienega Station invert concrete placement.
March 2020	Commenced Wilshire/La Brea Station roof concrete placement.
April 2020	Arrival of first rail delivery to the Division 20 Rail Yard.
May 2020	TBM #1 (Soyeon) completed the Reach #2 tunnel drive. TBM #2 (Elsie) commenced the Reach #3 tunnel drive.
June 2020	Completed 1st lift wall concrete placement (GL 3-15) at Wilshire/La Cienega Station. Completed Reach Two (2) tunnel mining.
July 2020	TBM #1 (Soyeon) commenced the Reach #3 tunnel drive.
August 2020	Commenced concourse concrete placement at Wilshire/Fairfax Station.
September 2020	The first roof placement (Block 7) at Wilshire/La Cienega Station was completed.
October 2020	Commenced welding running rail at the Division 20 Rail Yard.
November 2020	Placed protection slab at the Wilshire/La Cienega Station entrance.
December 2020	Completed welding of running rail at the Division 20 Rail Yard.
January 2021	The Purple TBM (Elsie) restarted the Reach 3 tunnel drive and has reached the Wilshire/San Vicente anomaly site.
February 2021	The Purple TBM (Elsie) completed the Reach 3 tunnel drive.

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February 2021	Start of Reach 1 tunnel invert concrete placement.
March 2021	The Red TBM (Soyeon) completed the Reach 3 tunnel drive.
April 2021	The Purple TBM (Elsie) completed Tail Track tunnel drive.
May 2021	Completed TBM tunnel mining activities for the Project.
June 2021	Completed Reach 1 cross passage structures.
July 2021	Commenced TBM Gantry removal from Wilshire/La Cienega Station.
August 2021	Commenced Reach 2 cross passage excavation.
September 2021	All concrete roof sections (11 out of 16) for this phase of construction have been placed at Wilshire/Fairfax Station.