

April 21, 2022

TO: DISTRIBUTION

FROM: MICHAEL McKENNA

EXECUTIVE OFFICER/PROJECT MANAGER

SUBJECT: WESTSIDE PURPLE LINE EXTENSION SECTION 2 PROJECT

MARCH 2022 QUARTERLY PROJECT STATUS REPORT

Enclosed herewith is the Quarterly Project Status Report for the Westside Purple Line Extension Section 2 Project. This report contains the Los Angeles County Metropolitan Transportation Authority's (LACMTA) representation of the Westside Purple Line Extension Section 2 Project status for the period ending April 1, 2022.

If you have any questions regarding this report or its supporting information, please contact Mike Martin, Deputy Executive Officer, Program Control at (424) 551-4471.

MM: PB Enclosure

Purple (D Line) Extension Project Section 2

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).

March 2022

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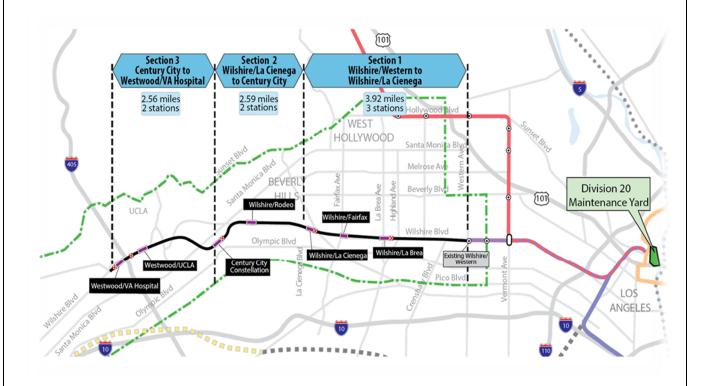
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PROJECT OVERVIEW

Project Background

The Purple (D Line) Extension Section 2 Project (Project) is the second of three sections to be designed and constructed as part of the Los Angeles County Metropolitan Transportation Authority's (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 2 will extend the future Wilshire/La Cienega Station that is part of the Purple (D Line) Extension Section 1 Project currently under construction to Century City. The Project is located entirely underground, primarily following Wilshire Boulevard, and includes the design and construction of approximately 2.59 miles of double-track heavy rail, two new stations as well as the purchase of 20 heavy rail vehicles. The Wilshire/Rodeo Station is within the jurisdiction of City of Beverly Hills, and the Century City Constellation Station is within the jurisdiction of City of Los Angeles. The Project also includes train controls, signals, traffic controls, communications, traction power supply and distribution, fare collection systems and equipment, acquisition of right-of-way, and utility relocations.



The Wilshire/Rodeo Station box will be under the center of Wilshire Boulevard beginning just east of South Canon Drive and extending to El Camino Drive. The entrance will be on the southwest corner of Wilshire Boulevard and Reeves Drive.

The Century City Constellation Station box will be under the center of Constellation Boulevard between Century Park East and Solar Way. A double crossover will be located east of this station. The entrance will be on the northeast corner of Constellation Boulevard and Avenue of the Stars. In lieu of tail tracks, safe breaking distance will be provided at the interim terminus station.

Major Procurements

<u>Contract C1120 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing:</u> The procurement of this contract utilized 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 2.59-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 finished work. A tunnel boring machine (TBM) launch shaft will be constructed at the Century City Constellation Station. Two underground stations are to be constructed with one double crossover location set east of the Century City Constellation (terminus) Station. Each station has a single entrance plaza with stairs, escalators and elevators which meet ADA requirements. The scope of work also includes all architectural finishes, mechanical and electrical systems and equipment including train control, traction power, communications, trackwork, system tie-in to the Wilshire/La Cienega Station (currently under construction), testing and commissioning.

Metro Furnished Equipment

Metro has procured a contract to provide 20 Heavy Rail Vehicles (HRV) necessary to operate the extension of 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 two new stations and system testing.

Program Management

The Purple (D Line) Extension Section 2 Project is being managed under the direction of an Integrated Project Management Office (IPMO). WSP Global (WSP) provides engineering and design support services, while Purple (D Line) 2 CM Partners, a Joint

Venture provides construction management support services. An overview of staffing is provided under the Staffing section of this report. The program management team is also supported by Metro headquarters' resources and includes engineering, risk management, environmental, quality management, operations and creative services departments.

Project Schedule and Budget: The Revenue Service Date (RSD) is planned for 2025.

On January 26, 2017, the Metro Board approved the Life of Project (LOP) Budget for the Purple (D Line) Extension Section 2 Project 865522 for \$2.4 billion excluding Finance Charges of \$88.7 million. A detailed Life of Project Budget forecast is included under the Project Cost Forecast section of this report.

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

- Federal Section 5309 New Starts
- Federal CMAQ (Congestion Mitigation & Air Quality)
- Measure R TIFIA Loan (Transportation Infrastructure Finance & Innovation Act)
- Measure R 35%
- State Capital Projects Loans

<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; abnormal and emergency scenarios in which random combinations of system interactions are tested and equipment "burned-in"; and training of emergency services as well as Metro personnel who will operate and maintain the extension. Activities occurring during Pre-Revenue Operations are carried out by a designated Metro Project Rail Activation Group.

EXECUTIVE SUMMARY

In March 2022, the Project reached 49% completion based on earned value measurements for design and construction. The focus of the Project continues to be completing final design and construction activities in Century City and Beverly Hills. Final design base scope is anticipated to be complete in July 2022. The C1120 Design Build Contract is on schedule to substantially complete by May 2025 and demobilize by October 2025. The forecast Revenue Service Date (RSD) for the Project remains planned for 2025. The following is an overview of current design and construction activities.

Design Status

The Engineering Management Services team (WSP) continues to provide engineering services during construction as well as real estate support services. The team is also supporting Metro in reviewing final design submittals, responding to RFI's, and assisting in the preparation of change notices.

The design work has originally been identified into three distinct design unit packages. They are the following:

- 1. Design Package 1 Utility/Civil Design at Launch Box in Century City
- 2. Design Package 2 Remaining Utility Conflicts (Outside of Launch Box)
- 3. Design Package 3
 - (Volume 1) Tunnel Reaches
 - (Volume 2) Stations
 - (Volume 3) Track & Systems

The design packages noted above have been broken out into discrete advanced design units/packages in order to facilitate and prioritize design deliverables.

Metro, Tutor Perini/O&G (TPOG) and STV have been working together to identify advanced partial design units for the abovementioned design packages and proposed submittal dates to facilitate timely design review to support the Project schedule.

Each design unit package will be submitted and evaluated at each of the following phases: 60%, 85%, 100%, Approved for Construction (AFC) and Issued for Construction (IFC). Critical design units have been advanced as Advanced Partial Design Units (APDU's) to support ongoing construction activities.

Design progress meetings are occurring weekly related to the design unit packages. Weekly design task force meetings (by individual discipline) began at the end of March 2018 and are scheduled to continue through design completion. TPOG is continuing with the required contractual submittals. *Design related submittals of note that TPOG has submitted this month are:*

- AFC NDC LADWP Thrust Restraint APDU 2.5
- 100% WRS Transfer of Permanent Power Requirements DU 3.2 & DU 3.3
- 100% Package 3 Vol 1C WRS Structure Revision DU 3.1 (Entrance SOE)
- 85%t DWP Water Main Relocation at CCS (PSA-0135) APDU 2.5.1
- 85% WRS Primary-Emergency Permanent Power DU 3.3

Construction Status

Century City Constellation Station:

Construction activities associated with the sewer and storm drain relocation continues this month. TPOG continues to work with City of Los Angeles BOE and Sanitation Departments to obtain approvals for utility materials. TPOG obtained a renewal on the project's nighttime noise variance permit for nighttime work to extend the permit through May 28, 2022. The contractor will begin employing a sewer bypass system to support the replacement of the sewer main line on Constellation Blvd. This work must be implemented to allow for the removal of the existing and installation of the new sewer line. TPOG obtained a Peak Hour Exemption Permit for the Storm Drain Relocation from BOE on March 7, 2022. TPOG obtained the approval of additional staging area along Constellation Blvd from DOT and BSS on March 9, 2022.

Decking operations were substantially completed. Deck panels are 98% complete, remaining deck panels have not been installed in order to provide additional ventilation through the openings.

Excavation of the remainder of the station box west of the TBM launch box is underway and is 26% complete. Excavation of the station entrance continues and is 26% complete. Installation of first level struts has commenced this period and is ongoing.

Tunnels:

Tunneling operations began on April 30, 2020 with the launch of the BL TBM, "Ruth" from the Launch box. The BL TBM, "Harriet" was re-launched east of the Tunnel Shaft on February 22, 2021 after the completion of the installation of the conveyor belt system. The BL TBM had an unplanned stop underneath the Beverly Hills Unified School District's administration building for cutterhead inspection and maintenance. Maintenance work was completed on May 1, 2021, and the BL TBM resumed tunneling operations on May 11, 2021. On January 28, 2022 the BL TBM broke into the Wilshire/Rodeo station box. BL reach 5 is now 100% mined.

BL TBM began excavation on reach 4 toward Wilshire/La Cienega Station on March 29, 2022. The BL TBM to date has excavated 40 feet (5,817 feet overall) equating to 0.7% for Reach 4 (54% complete overall), with 2 rings installed (1,158 rings overall).

Launch of the BR TBM, for Reach 5 began on July 20, 2020. On January 12, 2022 the BR TBM broke into the Wilshire/Rodeo station box. BR reach 5 is now 100% mined.

BR TBM began excavation on reach 4 toward Wilshire/La Cienega Station on March 2, 2022. The BR TBM to date has excavated 739 feet (6,545 feet overall) equating to 13% for Reach 4 (56% complete overall), with 142 rings installed (1,300 rings overall).

Wilshire/Rodeo Station:

The first concrete placement for the invert slab occurred on May 20, 2021. Placement of concrete for the invert slab and first level station walls are approximately 72% complete, including a portion requiring remedial repair. Both TBMs have broken through the east bulkhead. The installation of rebar, conduits, embedded items and storm drain at the station entrance invert has been completed. Concrete placement for the invert slab at the station entrance has commenced this period and is ongoing.

Cal/OSHA M&T granted TPOG a temporary reclassification of Wilshire/Rodeo Station from underground classification of "Gassy" to the "Potentially Gassy with Special Conditions". The primary benefit of this temporary designation was the ability to utilize tools/equipment for maintenance work on the TBMs which would otherwise have been restricted within a "Gassy" underground location. The station has reverted to a "Gassy" classification after the BR TBM broke out of the station to begin Reach 4 mining.

Cost and Schedule Summary

For the C1120 Design/Build contract, Metro has received the Contractor's March 2022 schedule update, which reports the substantial completion date finishing 261 calendar days behind the May 23, 2025 contractual date. Slower than anticipated excavation progress is causing the impact. Tunneling progress is being monitored closely. The Project Team is concerned about the continued monthly schedule slippages and is closely monitoring these impacts. The Contractor reported a slippage of 12 calendar days to the overall Project this reporting period. The forecasted delay to the Century City Constellation Station excavation is concurrent with tunneling delays that have not been forecasted in the Contractor's schedule. Future revisions to the contractor's means and methods and revised schedule logic, may have an impact on future updates. It is anticipated that the contractual completion date will be achieved.

The Critical Path (CP) continues to go through the Century City station Excavation and Invert Slab activities. It also includes completion of the tunnel excavations, tunnel walkway and invert concrete work, track installation, Century City Station finishes, and systems installation and testing work (including installation of interior finishes and electrical equipment at both stations). A summary graphic of the critical path is found on Page 15.

C1120 Design-Build Contract Schedule Metrics

	Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
Notice to Proceed	04/26/17A	0	04/26/17A		0
Substantial Completion	05/23/25	0	05/23/25	05/23/25	0

Project costs continue to track within budget and projected contingency limits. To date, the Current Budget and Current Forecast remain the same this period at \$2.5 billion.

There are currently twenty-seven (27) claims that are being evaluated.

- Mitigation Plan for Subsurface Settlement above BL Tunnel (Claim 19)
- WRS Groundwater Inflows (Claim 21)
- COVID Impacts (Claim 22)
- Wilshire/Rodeo Structural Changes (Claim 23)
- Elevator Balustrade Lighting Design Changes (Claim 24)
- Addition of Century City Constellation Elevator Machine Room (Claim 26)
- Seismic Analysis Redesign (Claim 27)
- Cutterhead Damage (Claim 28)
- Resubmittal of 100% Submittal DU 6.1 Pkg 3, Volume 3B (Claim 29)
- CCS Appendage Grating 15 (Claim 31)
- CCS Appendage Grating 16 (Claim 32)
- CCS Emergency Stair 1 (Claim 33)
- CCS Appendage Grating 5 (Claim 34)
- CCS Additional Elevator Machine Room (Claim 35)
- Move Public Platform Exterior Wall (Claim 36)
- WRS Storm Drain Utility Changes (Claim 37)
- WRS Appendage Grating 9 (Claim 39)

- WRS Water and Communication Design Change (Claim 40)
- WRS East EVS Grating 4 Design (Claim 41)
- WRS Emergency Exit 4 Design (Claim 42)
- Stations OPE Design Revision (Claim 44)
- Unilateral CO No. 48 NPDES Construction Project Dewatering Permit (Claim 45)
- Appendage Grating 10 Design (Claim 46)
- Station Revised OPE Construction (Claim 47)
- SCE Utility Line Relocation Design (Claim 48)
- Status Electrical Heat Load Updates (Claim 49)
- CCS Elevators 1 & 2 Additional Sheet Framing (Claim 50)

Detailed cost and budget information is provided on Page 18.

Key Management Concerns

- The Project Recordable Injury Rate for this period is 3.02 which is higher than the national average of 2.4.
- Metro remains concerned about TPOG's elevated Recordable Injury Rate and
 expects to see continued improvements to help lower the rate. To monitor progress,
 Metro recently completed an audit of TPOG's implementation of its safety plan. The
 audit indicated that TPOG was found to be in substantial conformance with the
 necessary requirements. Additionally, Metro Safety staff have been preparing biweekly safety observations for reference and possible necessary action.
- Daily tunnel excavation rates have been considerably slower than what was assumed in TPOG's baseline schedule. TPOG has indicated to Metro staff that production rates will increase with the modified muck handling system at the Tunnel Access Shaft. Tunnel excavation rates improved towards the end of Reach 5 mining. However, tunnel excavation production rates still remain a concern as even the best average production achieved from Reach 5 is still less than what is planned for much of Reach 4.

Project Construction Photos



Station Entrance Excavation Activities for Station Entrance in Century City



Excavation and Utility Support Activities West of the Launch Box in Century City



Rebar and Formwork for Wilshire/Rodeo Station Entrance



BR TBM Relaunch at Wilshire/Rodeo Station



First Level Strut Installation Activities for Station Entrance in Century City



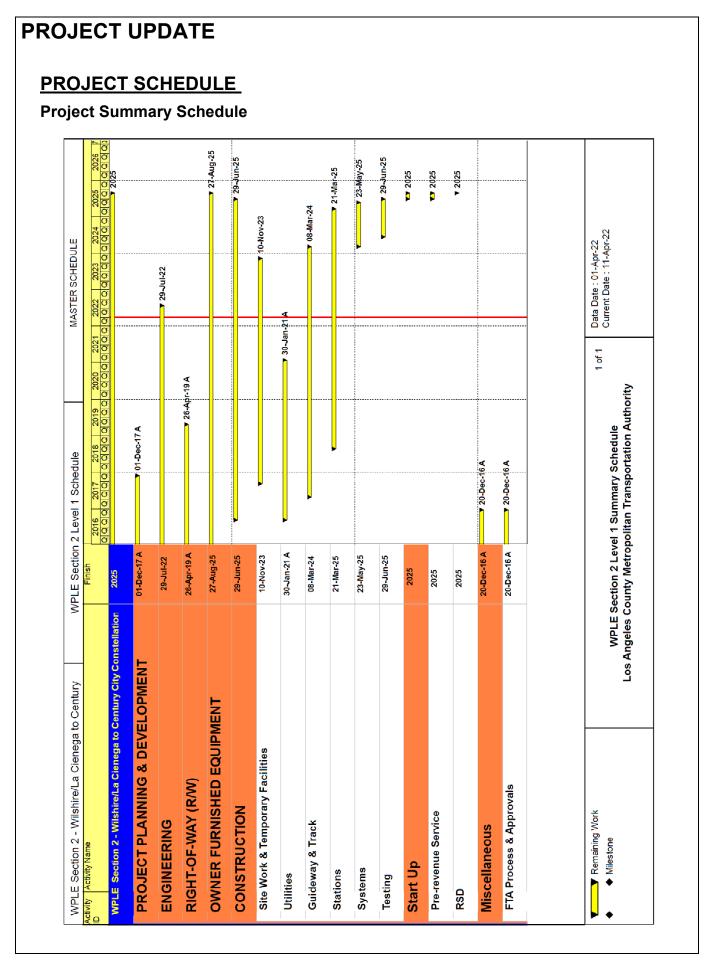
First Level Strut installation West of the Launch Box in Century City



Preparations for Concrete Placement at Wilshire/Rodeo Station Entrance for Invert Slab



BL TBM Relaunch at Wilshire/Rodeo Station

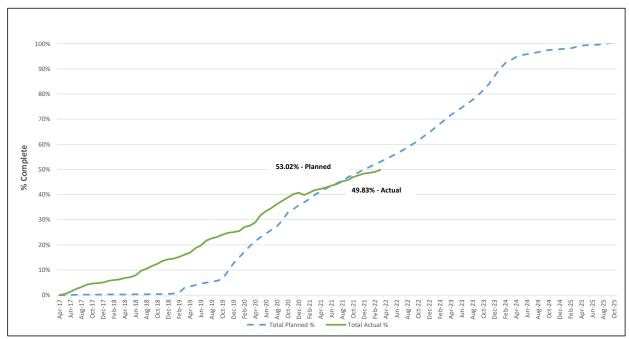


Progress Summary

	Status	Change from Last Period	Comment
Forecast Revenue Service Date	2025		
TIFIA Revenue Service Date	12/31/2026	None	
FFGA Revenue Service Date	12/31/2026	None	
Final Design Progress:			
Contract C1120	99.79%	0.02%	Final design is anticipated to be complete by July 2022 for Base scope. No impact to Project schedule.
Construction Contracts Progress:			
Contract C1120	49.83%	0.74%	

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

Planned vs. Actual Progress



The actual overall construction progress is 49.83% versus a planned of 53.02% through March 2022. The progress curves represent the physical progress of work performed to complete Contract C1120. The "Total Planned %" curve is based on the Contractor's late schedule dates from the approved baseline schedule.

The physical progress percentage excludes non-construction items such as contractor's design and construction mobilization costs and all general requirement costs not tied specifically to a construction work effort.

Complete concourse level exterior walls concrete pouring at Wilshire/ Rodeo Station entrance Start concrete pouring at Wilshire/Rodeo Station deck level Complete concourse to intermediate landing level exterior walls concrete pouring at Wilshire/Rodeo Station Complete excavation, shoring, installation, backfill and test of sewer line Complete intermediate landing level exterior walls concrete pouring at Wilshire/Rodeo Station entrance Complete protective slab sloped roof concrete pouring at Wilshire/Rodeo Station entrance Complete excavation of lift 2 at Century City Constellation Station O7/25/22 Complete excavation of lift 2 at Century City Constellation Station Translation of 2nd level of struts & wales at Century City Constellation Station MTA Staff M MTA Board Action Translation Consultant Consultant Consultant Consultant Consultant			Milestone Date	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22
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Complete installation of 2nd level of struts & wales at Century City O8/08/22 MTA Staff MTA Board Action FTA (Federal Utility Company Contractors Contractors Contractors Contractor			07/25/22						
♠ MTA Staff MTA Board Action Image: Contractor Station William Staff Utility Company Image: Contractor Station S	Complete excavation of lift 2	at Century City Constellation Station	07/25/22						
↑ Other Agencies	Complete installation of 2nd Constellation Station	evel of struts & wales at Century City	08/08/22						\bigcirc
Consultant	♦ MTA Staff	MTA Board Action		$\overline{}$	- Utilit	ty Compan	ny		
"A" following date is actual and completed * New	△ Other Agencies	Contractors			⊃ c11	20 D/B C	ontractor		
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	"A" following date is actual a	nd completed	* New						

Major Equipment Delivery

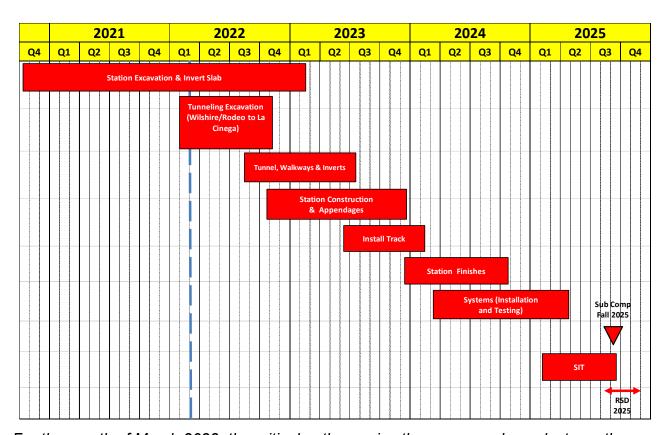
	Submittal	Procurement	Delivery	Installation
C1120 DESIGN/BUILD*				
Tunnel Boring Machines	27-Jul-17(A)	14-Aug-17(A)	13-Sep-18(A)	26-Dec-19(A)
Emergency Ventilation Fans	14-Jun-22	15-Jun-22	5-Dec-22	17-Jul-23
Station Elevators/Escalators	27-Jul-22	25-Aug-22	16-Jul-24	24-Jan-25
Track - Running Rail	27-Jul-22	28-Jul-22	20-Oct-22	8-Feb-24
Traction Power Equipment	29-Jun-22	30-Jun-22	9-Mar-23	25-Nov-24
Automatic Train Control	1-Apr-22	4-Apr-22	2-Nov-22	6-Aug-24
Radio System	3-Apr-22	4-Apr-22	2-Nov-22	27-Jul-23
SCADA RTU System	1-Apr-22	4-Apr-22	7-Nov-22	27-Jul-23
Heavy Rail Vehicles	Reevalu	uation underway of	date to exercise	option
Universal Fare System***	TBD	TBD	TBD	Jan 2025**

^{*} Dates derived from TPOG's March 2022 Schedule.

^{**} Forecast release date by TPOG to UFS contractor access at stations.

^{***} Metro supplied equipment.

Critical Path Project



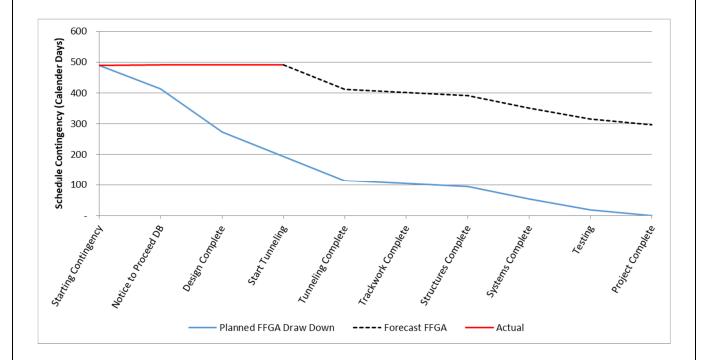
For the month of March 2022, the critical path remains the same as shown last month.

Project Schedule Contingency Drawdown Analysis

The project schedule contingency drawdown model provides a dual-axis perspective based upon the FFGA RSD of December 2026 and Metro's Project Master Schedule (PMS) forecast of 2025.

The introduction of the PMS model axis reflects a proportional distribution of available float relative to the FFGA model. Based on the April 2020 actual start of TBM mining, schedule contingency appears to maintain a noticeable buffer from the FFGA model. This model will be updated when the TBM mining is complete.

Regarding the FFGA RSD, schedule float of sixteen (16) months has been maintained.



PROJECT COST

Project Cost Analysis - 865522

DOLLARS IN THOUSANDS

SCC	DESCRIPTION	ORIGINAL BUDGET	CURRENT	F BUDGET	COMMIT	TMENTS	EXPEND	ITURES	CURRENT	FORECAST	FORECAST/ BUDGET
OODL		DODOLI	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAY & TRACK ELEMENTS	346,440	-	330,952	(1,730)	312,184	601	172,570	(1,750)	324,202	(6,750)
20	STATIONS, STOPS, TERMINALS, INTERMODAL	434,990	-	492,470	567	450,674	1,686	172,049	-	492,470	-
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	-	-		-		-	-	-	-	-
40	SITEWORK & SPECIAL CONDITIONS	553,282	-	588,052	1,703	575,477	2,327	428,561	1,750	591,552	3,500
50	SYSTEMS	81,457	-	87,345	-	69,850	-	9,513	(1,500)	85,845	(1,500)
	CONSTRUCTION SUBTOTAL (10-50)	1,416,169	-	1,498,819	540	1,408,185	4,614	782,693	(1,500)	1,494,069	(4,750)
60	ROW, LAND, EXISTING IMPROVEMENTS	426,396	-	430,075	-	318,091	(5)	297,851	-	430,075	-
70	VEHICLES	42,000		42,000	1	1	-	-	-	42,000	-
80	PROFESSIONAL SERVICES	374,878	-	421,608	502	351,655	4,291	295,689	1,500	423,108	1,500
	SUBTOTAL (10-80)	2,259,444	-	2,392,502	1,042	2,077,931	8,900	1,376,233	-	2,389,252	(3,250)
90	UNALLOCATED CONTINGENCY	177,176	-	44,118	-	-	-	-	-	47,368	3,250
100	FINANCE CHARGES	88,695	-	88,695	-			-	-	88,695	-
OTAL PR	ROJECT 865522 (FFGA & NON-FFGA CONCURRENT ACTIVITIES)	2,525,314	-	2,525,314	1,042	2,077,931	8,900	1,376,233		2,525,314	-
	ENVIRONMENTAL/PLANNING 465522	4,349	-	4,349	-	3,957	-	3,377	-	4,349	-
	TOTAL PROJECT 465522 (ENV / PLAN'G)	4,349	-	4,349	-	3,957		3,377		4,349	-
	TOTAL PROJECTS 465522 & 865522	2,529,664	-	2,529,664	1,042	2,081,889	8,900	1,379,610	-	2,529,664	-

Original Budget

Original Budget of \$2.5 billion reflects the Life of Project (LOP) budget approved by the Board on January 26, 2017, plus Finance Charges of \$88.7 million.

Current Budget

The Current Budget remains the same this period at \$2.5 billion.

Current Forecast

The Current Forecast remains the same this period at \$2.5 billion. However, it reflects reallocation of Provisionals Sums and allocated contingency among SCC categories.

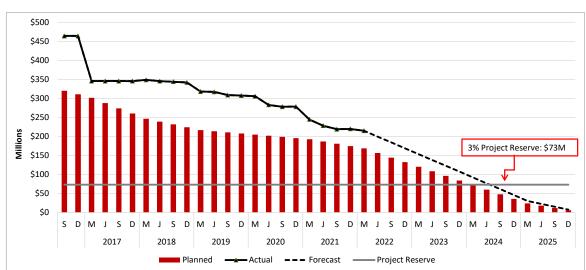
Commitments

The Commitments increased this period by \$1.0 million mainly due to executed Modifications and Change Orders for the Design/Build Contract C1120. It also reflects a reallocation of Provisionals Sums. The \$2.1 billion in Commitments to date represent 82.3% of the Current Budget.

Expenditures

The Expenditures increased this period by \$8.9 million primarily for costs associated with Design/Build Contract C1120, Environmental Services, Construction Management Support Services, Real Estate Acquisitions, Metro Project Administration, Engineering Management Support Services, Legal Support Services, Quality Management Services, City of Beverly Hills Memorandum of Agreement and City of Los Angeles Master Cooperative Agreement. The \$1.4 billion in Expenditures to date represent 54.5% of the Current Budget.





Cost Contingency Drawdown Analysis

The Original Budget of \$2.5 billion includes finance charges of \$88.7 million. It also includes a project cost contingency of \$345.7 million or 13.7% of the total project, which is based on the Life of Project (LOP) Budget approved by the Board in January 2017. An allocated contingency amount of \$168.5 million is included in the total cost contingency. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro [when applicable to specific contracts within each Standard Cost Category (SCC)].

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

The project cost contingency drawdown curve is based on a 2025 Forecast Revenue Service Date (RSD).

The Allocated FFGA Contingency decreased this period by \$1.0 million due to executed Modifications and Change Orders for the Design/Build Contract C1120.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS						
	Original Contingency (LOP Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)	
Unallocated Contingency	177,176	(129,808)	-	(129,808)	47,368	
Allocated Contingency	168,534	182	(1,042)	(860)	167,673	
Total Contingency	345,710	(129,626)	(1,042)	(130,668)	215,041	

Note: the above table includes FFGA and Non-FFGA contingency.

Risk Management

Summary of Risks

During the quarterly risk register meeting that occurred on April 7, 2022, seven (7) new risks were identified, and two (2) risk were closed. There are a total of seventy-four (74) risks, two (2) are scored as high, thirty-eight (38) scored as medium and thirty four (34) are scored as low to be managed in the next quarter.

New Risks Identified:

Seven (7) new risks were identified: The risks are the following:

	.,,		
Risk ID	Risk Description	scc	Risk Score
PLE2-146	Impact of global economic conditions on the project	90	9.0
PLE2-37	Section 1 Interface not completed/ready for BL and BR TBM Arrival	10	7.5
PLE2-140	Start up and commissioning delay due to System Integration Testing	50	6.0
PLE2-141	Civil construction delays negatively impact systems installation, testing and commissioning	50	6.0
PLE2-142	Systems testing schedule taking longer than expected	50	6.0
PLE2-143	Supply chain issue delays (chip shortages) and sourcing of specialized equipment.	50	6.0
PLE2-144	Budgets are exceeded due to inflation levels that exceed normal inflation rates.	80	4.0

Closed Risks:

Two (2) risks closed this period: The risks were the following:

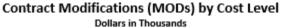
Risk ID	Risk Description	SCC	Risk Score
PLE2-115	TBM start-up issues results in delay to TBM tunneling (e.g. launching, software programming).	10	2.0
PLE2-108	Metro delays availability of ROC.	50	2.0

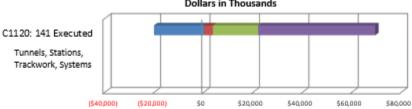
Top Five Risks

The table below shows the top five (5) Project risks identified after the risk register meeting.

Risk ID	Risk Description	Risk Score	Action Items
PLE2-136	COVID-19 Pandemic Impact	20.0	Evaluate the guidelines from State and local Government.
			Put contingency plans in place.
PLE2-135	CMSS difficulty finding key resources	10.0	
PLE2-102	Potential tunnel delays that are encountered	9.0	 If potential anomalies prove to be well casings then follow MMRP Con-53.
	after November 2020.		
PLE2-24	Resource constraints at private utility companies	9.0	Maintain close coordination with utility companies and sequence utility work as necessary.
	delay schedule.		
PLE2-92	Coordination between contractors at the system	9.0	Metro Operations to assist Metro Engineering.
	interface point between Section 1:2 causes delays		2. Perform system interface plan.
	and additional cost.		3. WSP to prepare agenda and set-up meeting.
			4. Ashok Kothari to initiate preparation of agenda and set-up meeting. Provide status by 3/15/2020.
			5. A list of items to be considered was provided. Meeting needs to be conducted. Date pending for initial
			meeting.
			6. First internal meeting scheduled for 7/24/2020. 14 prelim items have been identified for discussion at
			meeting.

Summary of Contract Modifications





	C1120: 141 Executed
■ Under \$100K	(20,295)
■ \$100K to \$250K	3,533
■ \$250K to \$1M	18,295
Over \$1M	47,408
Total Contract MODs	48,942
Contract Award Amount	1,376,500
% of Contract MODs	3.56%

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

One hundred and forty-one (141) Contract Modifications (MODS) with a total value of \$48.9 million have been executed since the award of C1120 Contract – Tunnels, Stations, Trackwork and Systems.

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

As of March 2022:

DBE Goal – Design The percentage of funds apportioned to Design Contracts	25.31%
Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design	\$19.5M 27.85%
Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$20.5M 36.12%

Twenty (20) 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 Contract commitment divided by current contract value for Construction	\$159.7M 11.90%
Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime	\$104.6M 14.56%

Forty-seven (47) Construction DBE sub-contractors have been identified to date.

PROJECT LABOR AGREEMENTS (PLA)

As of February 2022:

Targeted Worker Goal	40.00%
Construction work to be performed by residents from Economically	
Disadvantaged Area in the United States	
Targeted Worker Current Attainment	40.66%
Apprentice Worker Goal	20.00%
Construction work to be performed by Apprentices	
Apprentice Worker Current Attainment	16.10%
Disadvantaged Worker Goal	10.00%
Construction work to be performed by disadvantaged workers	
Disadvantaged Worker Current Attainment	5.10%

FINANCIAL/GRANT

Status of Funds Source

MARCH 2022

STATUS OF FUNDS BY SOURCE

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS ANTICIPATED	(C) TOTAL FUNDS AVAILABLE	(D) COMMIT \$	(D/B) MENTS %	(E) EXPEN \$	(E/B) IDITURES %	(F) BILLED TO SOURC \$	
FEDERAL - SECTION 5309 NEW STARTS	\$1,187.000	\$1,187.000	\$597.711	\$1,057.536	89%	\$570.000	48%	\$567.528	48%
FEDERAL - SECTION 5309 NEW STARTS (ARPA-CIG**)	\$0.000	\$58.418	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
FEDERAL CMAQ	\$169.000	\$169.000	\$169.000	\$169.000	100%	\$169.000	100%	\$169.000	100%
MEASURE R - TIFIA LOAN	\$307.000	\$307.000	\$307.000	\$307.000	100%	\$307.000	100%	\$307.000	100%
MEASURE R 35%	\$811.902	\$753.484	\$608.598	\$493.591	66%	\$278.848	37%	\$252.773	34%
STATE CAPITAL PROJECT LOANS	\$54.762	\$54.762	\$54.762	\$54.762	100%	\$54.762	100%	\$54.762	100%
TOTAL	\$2,529.664	\$2,529.664	\$1,737.071	\$2,081.889	82.3%	\$1,379.610	54.5%	\$1,351.063	53.4%

EXPENDITURES ARE CUMULATIVE THROUGH MARCH 31, 2022

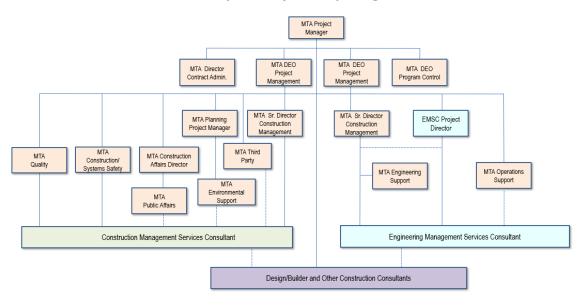
Original Budget based on 2017 Board approved LOP Budget, plus Finance Charges of \$88.7 million.

^{**}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).

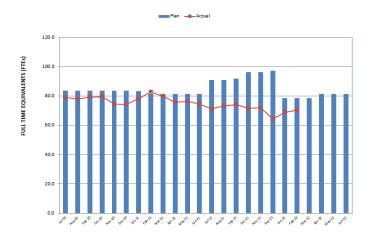
Purple (D Line) Extension Project Section 2 Responsibility and Reporting Matrix



The overall FY22 Total Project Staffing Plan averages 87.1 FTEs per month.

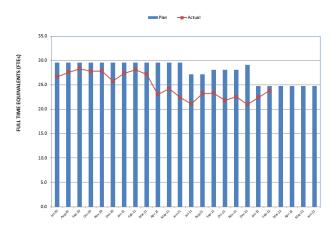
For February 2022, there were a total of 23.8 FTEs for MTA's Project Administration Staff and 46.4 FTEs for Consulting Staff. The total project staffing for February 2022 was 70.5 FTEs. Review of staffing plans is on-going to ensure staffing needs are appropriately managed.

Total Project Staffing - Metro and Consultants

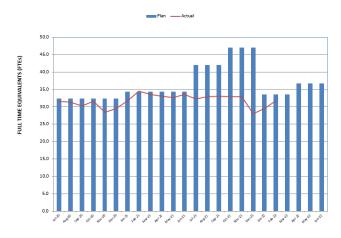


*Actuals include 3.0 FTEs related to Project Management Support Services (PMSS).

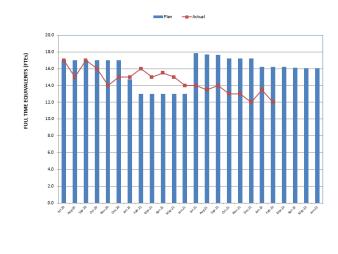




CM Support Services Staff (Consultant)



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

Real Estate Status Summary									
Description	Number	Certified	Appraisals	Offers Made	Agreements Signed	Condemnation Filed	Reloc	Parcels	
Description	of Parcels	ocranica	Completed				Required	Completed	Available
Full Takes	3	3	3	3	1	2	21	21	3
Part Takes	0	0	0	0	0	0	0	0	0
TCE	3	3	3	3	2	1	1	1	3
SSE	23	23	23	23	15	9	3	3	23
Permanent Easements	3	3	3	3	3	1	0	0	3
Total Parcels	32	32	32	32	21	13	25	25	32

- TPOG has possession of the former ACE Gallery property for construction staging and ultimately construction of the Wilshire/Rodeo Station entrance.
- TBM Launch Box site turnover to TPOG was issued on January 11, 2018, and access to the adjacent sidewalk was provided on January 16, 2018.
- AAA property and Gillis Family Partnership property turnover to TPOG was provided on January 26, 2018.
- TPOG gained possession of 2040 Century Park East (JMB parking lot) on February 24, 2018.
- TPOG gained possession of the three parcels (W-3001, W-3001-01 and W-3002) located at the Wilshire/Rodeo Construction Staging Area (North) on July 11, 2018.
- TPOG gained possession of the Wilshire/Rodeo Station footprint after completion of third-party utility relocations on October 18, 2018.
- TPOG gained possession of W-3604 and W-3604-1 (AT&T) on March 20, 2019.
- Settlement agreement reached for W-3603 (Gillis) for loss of goodwill.
- TPOG gained site access to Parcel W-3901 located on the Southeast corner of Constellation Boulevard and Century Park West 10250 Constellation Boulevard on September 27, 2019.
- The acquisition for Parcel W-3604 (Pacific Bell) was completed on November 21, 2019.
- Settlement agreement reached for Subsurface Easement Parcel W-3402 (GCIP Holdings II, LLC).
- TPOG gained possession of W-3801 for the Century City Constellation Station entrance on August 21, 2020.
- Parcel W-3903 under platform exhaust will be moved to public sidewalk.
 Requirement from Westfield has been decertified and reduces the total parcel number to 32.
- W-3801 available under right of entry agreement. Final agreement has been executed and escrow closed on February 18, 2021.
- Seven (7) sub surface easements are in ongoing eminent domain lawsuits. Remaining trial dates have been scheduled for June 20, August 29, October 24, and pending new dates targeted in Winter (November or December) of 2022.

QUALITY ASSURANCE

- Attended weekly Project construction progress meetings.
- Reviewed construction submittals, inspection and assessment reports at various job locations, Twining Independent test laboratory reports (TPOG), Ninyo and Moore test laboratory reports (Metro) and invoices for the work performed by Ninyo and Moore and PQM.
- Contributed to the development of Metro Quality Management Oversight Program and managed the implementation of the Project. Prepared QMO program project monthly report.
- Chaired weekly quality meetings with TPOG Quality Manager for the status, corrective actions, close out documents and verification actions for NCRs issued by Metro; quality control results for the current and upcoming works; planning activities of Metro laboratory materials verification testing and special processes construction assessments.
- Reviewed the following with a disposition for record only/approved/approved as noted:
 - CWP Exposed Raceway Installation HDPE
 - o Duplex Sump Pumps PD Century City Constellation Station
 - Hydrocarbon-Resistant Membrane Product Data

ENVIRONMENTAL

- Reviewed and provided responses to various contractor submittals and requests for information related to environmental matters.
- Issued various QMO reports assessing implementation of environmental requirements.
- Participated in various Project coordination meetings and evaluated progress and schedules for environmental compliance and sustainability efforts.
- Provided environmental awareness training as needed.
- Conducted field environmental monitoring and spot check inspections for construction noise and vibration, stormwater and fugitive dust BMPs, and Metro's Green Construction Policy.

CONSTRUCTION AND COMMUNITY RELATIONS

- Produced and distributed eight (8) construction work notices including weekly construction work updates in Beverly Hills and Century City, and monthly look ahead notices for Century City and Beverly Hills.
- Conducted monthly construction update project presentations via webinar for community and business stakeholders in Beverly Hills. Conducted multiple one-on-one stakeholder meetings in Century City regarding traffic control updates, and upcoming sanitary sewer/storm drain relocations. Continue individual contact with commercial and residential stakeholder in Beverly Hills regarding specific construction activities.
- Extensive outreach for community meetings including distribution of digital notices, direct emails, social media and paid online and print advertising. Primary outreach efforts are digital during continued COVID19 restrictions. Maintained expanded footprint of door to door monthly notice and construction distribution in Beverly Hills.
- Participated in the following online internal meetings: Construction Management Weekly meetings, Construction Relations weekly meetings, Third Party Coordination, LADOT coordination, BOE and BSS coordination, weekly Rodeo Station and Century City Construction Coordination weekly meetings.
- Continued efforts on behalf of Eat Shop Play and Business Interruption Fund in Century City and Beverly Hills. Updated Facebook/Twitter and website as needed.

CREATIVE SERVICES

- Ongoing station signage review for continuity of customer experience between sections
- Eight Artwork Design Services contracts were executed for stations
- Continued coordination with arts and cultural stakeholders

SAFETY & SECURITY

- TPOG reported one (1) Recordable Injuries in March 2022.
- Attended daily toolbox meetings, weekly crew all hand safety meeting, progress meetings, readiness reviews, and other project meetings to evaluate Contractor's Safety Program compliance with contract requirements.
- Worked 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.
- Conducted Project Safety Orientation, SCSR and H2S Safety Training for new Metro/Consultants and IPMO project staff.
- Metro / TPOG-JV project safety staff conducted schedule, Safety / Security and over-theshoulder review meetings.
- Hosted the March Monthly Safety and Security Meeting.
- Conducted right-of-way (ROW) and Safety/Security walks, Safety/Security reviews and coordination with TPOG staff for oversight and support of all project field work activities.
- TPOG reported 53,199 actual work hours in March 2022.
- TPOG Project to Date Work Hours are 2,585,140 with thirty-nine (39) Recordable Injuries and nine (9) day's Away from Work Injuries.
- The Recordable Injury Rate is 3.02. The Bureau of Labor Statistics reports the National Average Recordable Injury Rate is 2.4.

APPENDIX CHRONOLOGY OF EVENTS

January 2011 FTA approval to enter Preliminary Engineering

August 2012 FTA Record of Decision

December 2014 FTA approval to enter New Starts Engineering Phase

March 2015 Began Real Estate Acquisition

May 2015 Began Advanced Preliminary Engineering

September 2015 Issued RFQ for C1120 Design/Build contract

October 2015 Received RFQ responses for C1120 Design/Build contract

May 2016 Submitted draft FFGA application

May 2016 Submitted TIFIA loan application

June 2016 Submitted application to FTA requesting an FFGA

June 2016 Received RFP Proposals for Contract C1120

September 2016 Began telecom joint trench construction in Century City

December 2016 FTA executed FFGA

December 2016 Received TIFIA Loan

January 2017 NTP for Construction Management Support Services Contract

January 2017 Metro Board approved staff recommendation to award the Design/Build

Contract C1120 to TPOG and approved Life-of-Project Budget

January 2017 Issued C1120 Contract Award to TPOG

April 2017 Issued C1120 Contract NTP to TPOG

May 2017 Mobilized C1120 Contract Design and Construction Team

August 2017 Third party relocations started at Century City Constellation Station

September 2017 Third party relocations started at the Wilshire/Rodeo Station

November 2017 Beverly Hills City Council approved Memorandum of Agreement (MOA)

governing remaining third-party utility relocations

December 2017	Final Supplemental Environmental Impact Statement (FSEIS) was available to the public in the Federal Registry on December 1, 2017
January 2018	Completed all utility relocations within the Tunnel Boring Machine "Launch Box"
February 2018	Held Groundbreaking Ceremony on February 23, 2018
May 2018	Bureau of Engineering approved a nine-month street closure of Constellation Blvd. between Century Park East and Avenue of the Stars
September 2018	Full street closure of Constellation Blvd. commenced
September 2018	Delivery of tunnel boring machines (TBMs) commenced
October 2018	Piling installation commenced at launch box in Century City
October 2018	Granted Wilshire/Rodeo Station footprint right-of-way (ROW) access to TPOG
December 2018	Completed all civil work for third parties at Century City Constellation Station
December 2018	Demolition of former Ace Gallery completed
January 2019	Completed soldier pile installation for the TBM launch box at the eastern end of the Century City Constellation Station
January 2019	Metro Board Approves City of Beverly Hills MOA for C1120 Contract
February 2019	City of Beverly Hills City Council Approves MOA for C1120 Contract
March 2019	Start of installation of deck beams for the TBM launch box
May 2019	Completed soldier pile installation for Tunnel Access Shaft in Century City
June 2019	TBM Unveiling Event
June 2019	Full Street Closure of Constellation Blvd. Extension Granted
August 2019	Completed Construction of Santa Monica Boulevard Bus Layover in Century City
September 2019	Metro's request to lift the holiday moratorium for construction activities in Beverly Hills was rejected by the City Council
October 2019	Piling installation commenced for the Wilshire/Rodeo Station box.
November 2019	Poured invert slab at TBM launch box in Century City.

December 2019	An Additional 7-Month Full Street Closure of Constellation Blvd. was Granted by Los Angeles Board of Public Works.
December 2019	Started TBM Assembly.
December 2019	Motion for prejudgment possession for SSE under Beverly Hill High School was granted.
January 2020	Piling activities resumed at Wilshire/Rodeo Station after the holiday moratorium.
March 2020	LADWP completed 4.8kv system cabling pulling and splicing, along with the remaining cable removals at Century City Constellation Station.
March 2020	Beverly Hills City Council approved a full street closure of Wilshire Boulevard (between Beverly Drive and Crescent Drive) for the duration of the "Safer at Home" orders due to the COVID-19 Pandemic.
March 2020	Right of Entry Executed to Access BHUSD
April 2020	Began tunneling operations of the BL Tunnel.
April 2020	Completed implementation of the Wilshire Boulevard closure (between Beverly Drive and Crescent Drive) for the duration of the "Safer at Home" orders due to the COVID-19 Pandemic.
May 2020	Completed station box and entrance piling activities at Wilshire/Rodeo Station.
June 2020	Wilshire Boulevard reopened to traffic following completion of decking at Wilshire/Rodeo Station.
July 2020	Began tunneling operations of the BR Tunnel.
August 2020	Completed excavation of Tunnel Access Shaft.
August 2020	Access granted to contractor to W-3801 for the Century City Constellation Station entrance.
September 2020	Abandonment of the first legacy oil well was completed.
September 2020	BL TBM "Ruth" Breaks into Tunnel Access Shaft.
September 2020	TIFIA Loan Paid Off and Account Closed.
October 2020	BR TBM "Harriet" Breaks into Tunnel Access Shaft.
November 2020	Settlement agreement reached with City of Beverly Hills ending city's lawsuit against FTA and Metro.

November 2020	Beverly Hills City Council approved Metro's holiday moratorium waiver request and work hours established by the Memorandum of Agreement (MOA). Construction of Wilshire/Rodeo Station will continue through New Year's Day.
November 2020	City of Los Angles approved additional closures east of Avenue of the Stars along Constellation Boulevard through January 2, 2021.
December 2020	First TBM clears all buildings under Beverly Hills High School campus.
January 2021	City of Los Angeles approved extension of street closure for decking and utility work between Avenue of the Stars and Solar Way to April 5, 2021 and weekend closures at the intersection of Constellation Boulevard and Avenue of the Stars.
February 2021	Both TBMs have pushed through the Tunnel Access Shaft and the BL TBM "Ruth" is using conveyor belts for muck removal.
March 2021	Decking complete at Century City Constellation Station except for the twelve (12) remaining panels that are being utilized for additional ventilation openings.
March 2021	BL TBM (Ruth) excavation suspended after approximately 1,300 feet from eastern end of Century City Constellation Station due to unplanned maintenance to face of cutterhead and completion of repairs.
March 2021	Street restoration complete and Constellation Blvd. between Avenue of the Stars and Solar Way fully reopened earlier than planned.
April 2021	Permanent concrete work began at the Wilshire/Rodeo Station.
May 2021	Reopening of Constellation Blvd.
May 2021	Concreate placement for the first section of the invert slab at Wilshire/Rodeo station in Beverly Hills.
May 2021	TBM's resumed excavation after cutterhead inspection and maintenance for BL TBM and muck removal transitioning to conveyor belts for BR TBM.
June 2021	Switching from vertical conveyor belts to crane and muck boxes in the Tunnel Access Shaft.
July 2021	The conversion of the muck conveyance systems for both tunnels was completed on July 27, 2021.
August 2021	The first concrete placement for the first level Wilshire/Rodeo Station walls occurred this period.

August 2021	Both BL and BR TBM have exited the first of two seismic lining sections this period.
October 2021	Both TBM's have exited the 2 nd seismic zone of the alignment.
October 2021	Excavation of the Century City Constellation station entrance box has commenced.
October 2021	City of Beverly Hills approved the request for the Holiday Moratorium waiver allowing work to continue with adjusted hours and activities.
December 2021	Both TBM's reached the planned stopping point prior to break-in at Wilshire/Rodeo.
January 2022	BR TBM "Ruth" Breaks into Wilshire/Rodeo Station Box on January 12, and BL TBM "Ruth" Breaks into Wilshire/Rodeo Station Box on January 28.
March 2022	Both TBM's have begun excavation on reach 4 toward Wilshire/La Cienega Station. BL on March 2, 2022 and BR on March 29, 2022