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FROM:

JAMES COHEN Jim Cohen EXECUTIVE OFFICER, PROJECT MANAGEMENT

WESTSIDE PURPLE LINE EXTENSION SECTION 1 PROJECT **SUBJECT:**

DECEMBER 2020 QUARTERLY PROJECT STATUS REPORT

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

If you have any questions regarding this report or its supporting information, please contact Rick Wilson, Executive Officer, Program Control at (323) 900-2113.

JC: ah Enclosure

Westside Purple Line Extension Section 1 Project



Westside Purple Line Extension Section 1 Project

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).

December 2020

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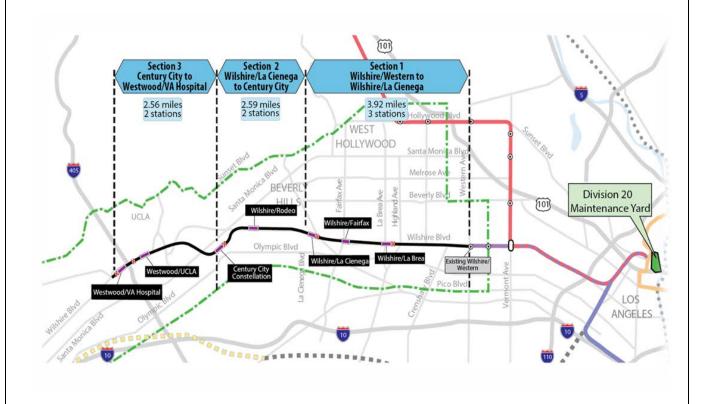
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PROJECT OVERVIEW

Project Background

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

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



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

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

The Wilshire/La Cienega Station box will be located under the center of Wilshire Boulevard immediately east of La Cienega Boulevard. A double crossover will be located east of the station box. The station entrance will be on the northeast corner of Wilshire Boulevard and La Cienega Boulevard. Since the station will be the terminus station for 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 C1045. The location of the exploratory shaft was adjacent to the future Wilshire/Fairfax Station. The construction of the shaft included furnishing and installing monitoring instruments, ventilation, and record and report instrumentation data during the excavation of the shaft. After construction of the shaft, the shaft was maintained for an observation period. Afterwards, the shaft was dismantled, and the site backfilled in a condition acceptable to the property owner. The contract was substantially completed on October 31, 2014.

Contract C1048 – Wilshire/La Brea Advanced Utility Relocations

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

Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations

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

<u>Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations</u>

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

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

Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing The procurement of this contract utilizes a two-step approach with the submittal of qualification statements through a Request for Qualification (RFQ) process, prequalification of qualified proposers followed by the release of a Request for Proposals (RFP) soliciting technical and price proposals with an option at Metro's discretion for Best and Final Offers (BAFO).

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

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

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 are 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 Line. An additional contract will be procured for the Universal Fare System (UFS). The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract will include design, fabrication and installation of equipment at the three stations and system testing.

Program Management

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

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

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

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

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

<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. To facilitate communication, community leadership councils have been formed which represent geographic-based constituent groups along the Project.

The Project is also engaged in social media outreach and various marketing and advertising efforts designed 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.

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

EXECUTIVE SUMMARY

In December 2020, the Project achieved 66.9% completion based on earned value measurements for design and construction. The critical path of the project remains the completion of the TBM tunnel drive, which is currently scheduled to finish in March 2021. The project team continues to review impacts differing site conditions and third-party requirements have had on the project schedule.

Currently, the C1045 Design/Build Contract substantial completion date remains June 15, 2023, and the forecast Revenue Service Date (RSD) for the Project remains unchanged at this time and is scheduled for completion in 2023. The forecast RSD is under review.

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

As of December 31, 2020, the Red TBM (Soyeon) has mined 2,734 feet (83% complete) of the Reach 3 tunnel, and the Purple TBM (Elsie) has mined 2,828 feet (86% complete) of the Reach 3 tunnel. Both TBMs are parked east of the Wilshire/San Vicente intersection where a chemical grout block is being installed to mitigate the impacts of discovered anomalies within the tunnel envelope. Mining will resume once this grout block is completed.

To date, ten (10) out of twelve (12) Reach 1 cross passages have been excavated. Concrete placement for five (5) cross passages has been completed (#10, #11, #13, #14 & #15). Work continues at all other cross passages with anticipated completion in March 2021.

At Wilshire/La Brea Station, plenum structural steel activities and metal decking installation (used to create the plenum) continue. Above the roof (Blocks 6-13) activities move forward with the installation of permanent utilities and slurry placements. Concrete activities at Appendage #1 (Wilshire/Orange) and Appendage #2A (Exhaust Shaft) move forward. Excavation at Appendage #3 (between Wilshire & Sycamore) is underway.

At Wilshire/Fairfax Station, a concourse slab concrete placement (Block 11) was completed on December 22, 2020. 2nd lift wall concrete placements also occurred on December 18, 2020 (Blocks 7 & 8 South), and on December 23, 2020 (Blocks 5 & 6 North). Work on the entrance structure and three appendages (Emergency Exit, Fan Room, Mechanical Room / Air Supply & Exhaust) move forward.

Roof concrete placements at Wilshire/La Cienega Station were completed on December 17, 2020 (Block 3), and on December 23, 2020 (Block 12). Protection slab concrete placements at the entrance structure were also completed on December 14, 2020 and December 16, 2020. 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, and contract close-out efforts are underway.

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. Preparation for the movement of running rail into the Reach One (1) tunnel is underway.

Cost and Schedule Summary

For the C1045 Design/Build contract, the re-sequenced schedule, which reflects the current construction approach for the remainder of the project, was incorporated into the schedule update process in July 2020. Metro has received the December 2020 schedule update, which reports the substantial completion date finishing 230 calendar days after the June 15, 2023 contractual date.

The project team continues to review the impacts differing site conditions and third-party requirements have had on the project schedule. No changes to the contractual substantial completion date of June 15, 2023, have been made at this time. The forecast completion date is currently under review.

The critical path of the project remains the completion of the TBM tunnel drive, followed by Wilshire/La Cienega Station structural concrete placement and finishes, systems, testing and pre-revenue operations. A summary graphic of the critical path is found on Page 14.

C1045 Design-Build Contract Schedule Metrics

| | Original Contract Date/Duration | Time Extension (CD) | Current Contract Schedule | Forecast (Metro PMS) | Variance CD (Trending) |
|---------------------------|---------------------------------------|---------------------------|---------------------------------|-------------------------|------------------------------|
| NTP | 01/12/2015 | | | | |
| Substantial Completion | 06/9/23 | 6 | 01/31/24 | TBD | -230 days |

The project budget and cost forecast has been adjusted to reflect the project's \$200M LOP budget increase approval by Metro's Board in August 2020. The Current Budget and Current Forecast for the Project are both at \$3.4 billion.

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

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

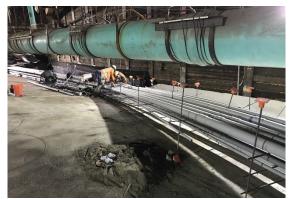
Detailed cost and budget information is provided on Page 17.

Key Management Concerns

<u>Item 1</u>: During Reach 3 (Wilshire/Fairfax to Wilshire/La Cienega) Horizontal Directional Drilling (HDD), which is done prior to the arrival of the TBMs, 'unknown potential anomalies' were discovered within the tunnel envelope near the Wilshire/San Vicente intersection. This discovery is impacting tunnel mining activities, the project schedule critical path and the substantial completion date.

Status/Action: Remedial efforts, which include the installation of a chemical grout block at the Wilshire/San Vicente intersection, continue to mitigate impacts associated with the San Vicente anomaly intervention. A re-sequencing of follow-on construction activities has also been implemented to address the impacts associated with the San Vicente anomaly intervention. Currently, both TBMs are parked east of the Wilshire/San Vicente intersection where the chemical grout block is being installed. Mining will resume once this grout block is completed.

Project Construction Photos



Conduit Installation on Wilshire/La Brea Station Roof



Interior Wall Form Installation at Wilshire/Fairfax Station



View of Arched Roof at Wilshire/La Cienega Station



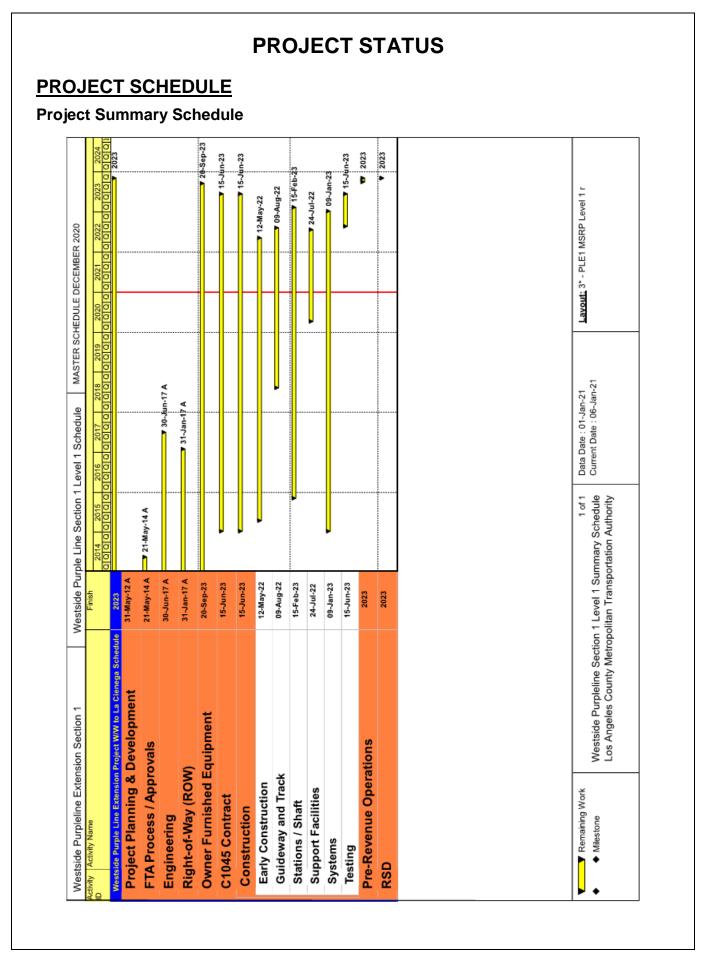
HDPE Installation at Cross Passage #9 (Reach #1)



TBM Cradle Assembly at Wilshire/La Cienega Station



Reach 3 Anomaly Work at Wilshire/San Vicente

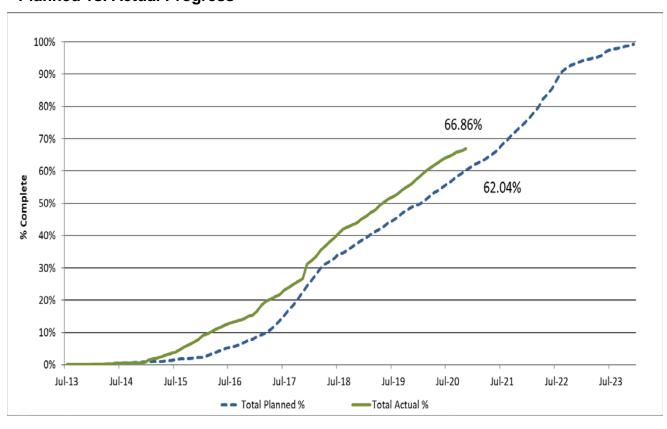


Progress Summary

| | Status | Change from Last Period | Comment |
|-----------------------------------------|------------|----------------------------|-----------------------------------------------|
| Forecast Revenue Service | 2023 | | Reviewing impacts from DSCs / 3rd Party Reqs. |
| 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 Progress: | | | |
| Contract C1048 | 100.0% | 0.0% | Completed on Schedule |
| Contract C1045 | 64.5% | 0.7% | |
| 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 |
| | | | |

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

Planned vs. Actual Progress



| | Milestone Date | Dec-20 | Jan-21 | Feb-21 | Mar-21 | Apr-21 | May-21 |
|-----------------------------------------------------------------------|-------------------|-------------------------------------------|--------|--------|-------------|------------|--------|
| Division 20 Rail Yard: Completed Welding Running Rail | 12/9/2020 A | | | | | | |
| Wilshire/La Cienega: 2nd Lift Interior Wall Concrete (Block 1) Placed | 12/11/2020 A | | | | | | |
| Wilshire/Fairfax: Completed Concourse Concrete Placement (Block 11) | 12/22/2020 A | | | | | | |
| Wilshire/La Brea: Start Plenum Steel Beam (High Bay) Installation | 01/13/21 | | | | | | |
| Wilshire/La Cienega: Roof Concrete Placement (Block 13) | 01/15/21 | | | | | | |
| Wilshire/La Brea: Commence Installation Cable Tray Supports | 01/25/21 | | | | | | |
| Wilshire/Fairfax: Complete Fan Room Appendage (A1C) | 02/05/21 | | | | | | |
| Wilshire/Fairfax: Mud Slab Placement (Appendage A2A) | 02/25/21 | | | | | | |
| Wilshire/La Cienega: Start Work on Emergency Exit Stair No.11 | 03/15/21 | | | | | | |
| Wilshire/Fairfax: Begin Elevator Masonry Walls | 03/15/21 | | | | | | |
| Reach 1 Cross Passage Concrete Activities Complete | 04/07/21 | | | | | \bigcirc | |
| Wilshire/Fairfax: Complete Installation of High Bay Roof | 05/06/21 | | | | | | |
| MTA Staff MTA Board Action Other Agencies Contractors | Admii | (Federal Ti nistration) i Consultai | | V | Utility Con | | |
| ν | Admii | nistration) | | V | | | |

Major Equipment Delivery

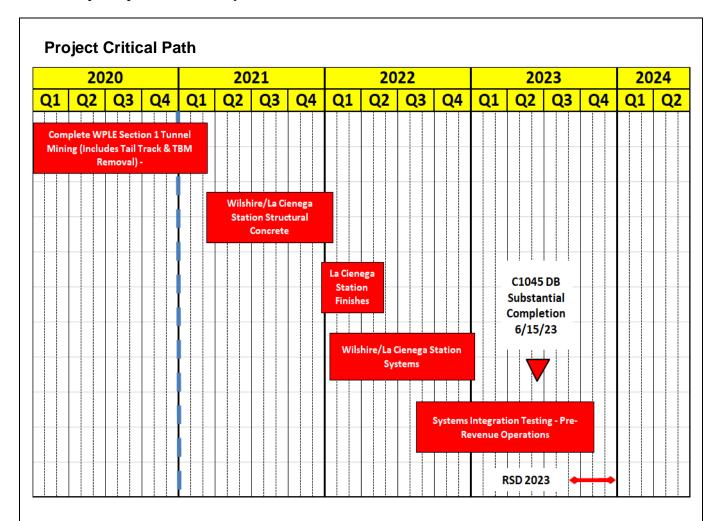
MAJOR EQUIPMENT DELIVERY

| | Submittal | Procurement | Delivery | Installation |
|----------------------------|-----------|-------------|-----------|--------------|
| C1045 DESIGN/BUILD* | | | | |
| Tunnel Boring Machine | 1/29/16A | 8/14/2017A | 12/15/17A | 7/13/18A |
| Emergency Ventilation Fans | 11/30/18A | 4/1/19A | 7/22/21 | 7/23/21 |
| Station Elevators | 4/27/18A | 4/27/18A | 12/3/21 | 2/8/23 |
| Station Escalators | 4/27/18A | 3/6/21 | 2/1/22 | 7/12/22 |
| Track - Running Rail | 7/09/19A | 8/09/19A | 4/9/20A | 4/1/21 |
| Traction Power Equipment | 1/11/21 | 7/7/21 | 1/12/22 | 1/19/22 |
| Automatic Train Control | 4/1/16A | 7/1/16A | 12/20/16A | 4/4/22 |
| SCADA RTU System | 2/2/17A | 1/16/18A | 5/18/18A | 6/4/21 |
| Radio System | 2/2/17A | 2/03/20A | 3/29/21 | 8/30/21 |
| | | | | |
| Heavy Rail Vehicles*** | 7/16/15A | 5/1/19A | 3/31/23 | 4/15/23 |
| | | | | |
| Universal Fare System** | 2/15/21 | 11/17/21 | 9/14/22 | 1/12/23 |
| | | | | |

^{*} Dates derived from STS's December 2020 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 schedule update process in July 2020.

For the month of December 2020, the critical path of the project remains the completion of the TBM tunnel drive, which is currently scheduled to finish in March 2021.

During Reach 3 (Wilshire/Fairfax to Wilshire/La Cienega) Horizontal Directional Drilling (HDD), which is done prior to the arrival of the TBMs, 'unknown potential anomalies' were discovered within the tunnel envelope near the Wilshire/San Vicente intersection. *This discovery is impacting critical path tunnel mining activities*.

Remedial efforts, which include the installation of a chemical grout block at the Wilshire/San Vicente intersection, continue to mitigate impacts associated with the San Vicente anomaly intervention. A re-sequencing of follow-on construction activities has also been implemented to address other impacts associated with this intervention.

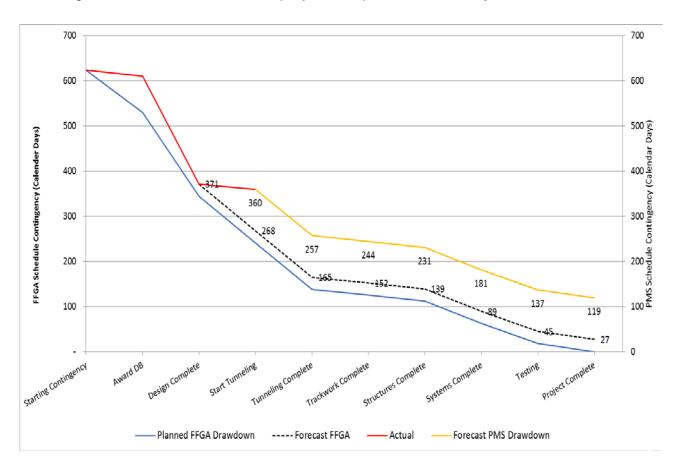
The Revenue Service Date remains targeted for 2023. This forecast completion date is under review.

Project Schedule Contingency Drawdown Analysis

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

The introduction of the PMS model axis reflects a proportional distribution of available float relative to the FFGA model. Based on an October 15, 2018 actual start of TBM mining, schedule contingency appears to maintain a noticeable buffer from the FFGA model. This model will be updated when TBM mining is complete. The TBM mining completion date is currently being impacted by the Reach 3 anomaly intervention effort at the Wilshire/San Vicente intersection.

With regards to the FFGA RSD, the project completion is currently under review.



Risk Management Narrative

Summary of Risks

During the quarterly risk register meeting, two (2) new risks were identified and one (1) risk was closed. A total of thirty-five (35) risks remain to be managed in the next quarter.

Of the thirty-five (35) risks, four (4) are scored as high, twelve (12) as medium and nineteen (19) as low.

The next WPLE Section 1 Project Risk Register quarterly update is scheduled for January 2021.

Top Four (4) Risks

The table below shows the top four (4) project risks.

Top Risks

| Risk ID | Risk Description | Risk Score | Action Items |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 678.0 | COVID-19 Pandemic Impact | 20 | Evaluate state and local government guidelines Put contingency plans in place. |
| 625.1 | Encountering unknown anomalies during tunneling (e.g. tie-backs, steel beam, oil wells). | 14 | Continued investigation of anomaly under investigation at western array of Reach 3. Work activities for surface chemical grouting from inside the box culvert and from the surface is underway. Project impacts are currently being assessed. |
| 202.0 | Areas with concentrated methane and H2S presence will complicate construction progress and safety, increase price and may cause delays. | 12 | Metro has strict safety requirements in place, which are part of the safety requirements for contractors. Metro will further supplement existing safety requirements based on Geotechnical/Environmental investigations. The Gas Task Force has been reassembled. Reach 2 Tunneling has been completed. Currently mining Reach 3 tunnel. |
| 676.0 | Subcontractor ability to get the required resources to perform work. | 10 | Actively manage schedule and resource needs. |

PROJECT COST

Project Cost Analysis – 865518

DOLLARS IN THOUSANDS

| SCC | SCC CODE DESCRIPTION | | CURREN | IT BUDGET | СОММІ | TMENTS | EXPENI | DITURES | CURRENT | FORECAST | CURRENT BUDGET / FORECAST |
|------|------------------------------------------------|-----------|--------|-----------|--------|-----------|--------|-----------|---------|-----------|---------------------------------|
| CODE | | BUDGET | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | VARIANCE |
| 10 | GUIDEWAY & TRACK ELEMENTS | 388,294 | - | 452,400 | 3,667 | 419,839 | 4,100 | 279,049 | - | 452,400 | - |
| 20 | STATIONS, STOPS, TERMINALS, INTERMODAL | 440,621 | - | 572,197 | - | 535,329 | 5,501 | 347,845 | - | 572,197 | - |
| 30 | SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS | 43,323 | | 46,012 | - | 45,712 | - | 45,702 | | 45,723 | (288) |
| 40 | SITEWORK & SPECIAL CONDITIONS | 751,566 | - | 825,008 | - | 805,229 | 3,251 | 650,275 | - | 824,103 | (905) |
| 50 | SYSTEMS | 113,574 | - | 118,995 | - | 102,477 | 385 | 34,725 | - | 118,995 | - |
| | CONSTRUCTION SUBTOTAL (10-50) | 1,737,378 | | 2,014,612 | 3,667 | 1,908,586 | 13,237 | 1,357,595 | | 2,013,419 | (1,193) |
| 60 | ROW, LAND, EXISTING IMPROVEMENTS | 175,634 | - | 202,980 | - | 202,980 | 765 | 185,191 | - | 202,980 | - |
| 70 | VEHICLES | 160,196 | - | 108,302 | - | 98,248 | - | 24,549 | | 108,302 | - |
| 80 | PROFESSIONAL SERVICES | 412,710 | - | 575,463 | - | 457,555 | 3,352 | 409,408 | - | 575,450 | (13) |
| | SUBTOTAL (10-80) | 2,485,918 | • | 2,901,357 | 3,667 | 2,667,369 | 17,353 | 1,976,743 | • | 2,900,151 | (1,206) |
| 90 | UNALLOCATED CONTINGENCY | 248,592 | 1 | 38,153 | - | 1 | 1 | - | | 39,359 | 1,206 |
| 100 | FINANCE CHARGES | 375,470 | , | 375,470 | - | 1 | 1 | - | | 375,470 | - |
| | TOTAL PROJECTS 465518 & 865518 (10-100) | 3,109,980 | 1 | 3,314,980 | 3,667 | 2,667,369 | 17,353 | 1,976,743 | - | 3,314,980 | - |
| | 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 | - | 3,354,350 | 3,667 | 2,706,738 | 17,353 | 2,016,100 | - | 3,354,350 | - |

Original Budget

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

Current Budget and Current Forecast

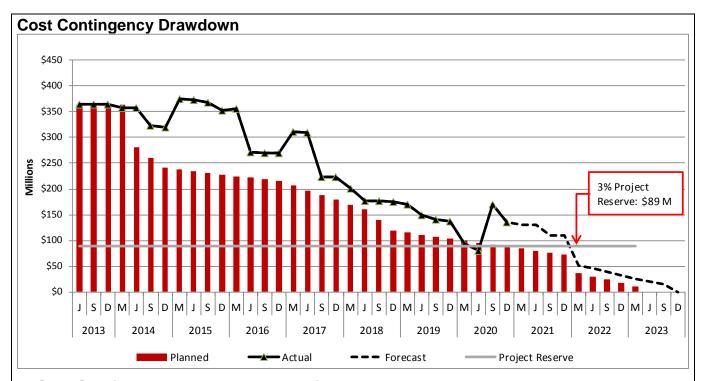
The Current Budget and Current Forecast remain the same this period at \$3.4 billion.

Commitments

The Commitments increased by \$3.7 million due to a Change Order for the C1045 Design/Build Contract. The \$2.7 billion in Commitments to date represent 80.7% of the Current Budget.

Expenditures

The Expenditures increased by \$17.4 million for costs associated with the Design/Build Contract C1045, Real Estate - Temporary Construction Easement fee, City of Beverly Hills Memorandum of Agreement, Engineering Management Support Services, Construction Management Support Services, and Metro Project Administration. The \$2.0 billion in Expenditures to date represent 60.1% of the Current Budget.



Cost Contingency Drawdown Analysis

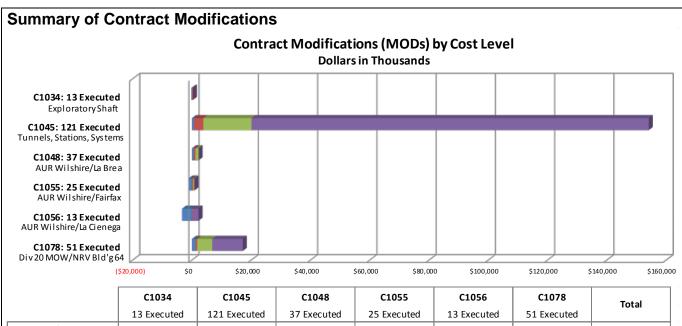
The Project's Original Budget of \$3.2 billion (plus Finance Charges of \$0.4 billion) included a project cost contingency of \$320.6 million or 10.2% of the total project budget. In June 2020, the remaining contingency balance was below the 3% project reserve threshold of \$83.4 million. To date, the Project has experienced higher than expected differing site conditions, an increase in third party and safety requirements, and changes in scope.

In August 2020, the Board approved to amend the life-of-project (LOP) budget to address the cost contingency drawdowns, fund ongoing construction, third party and professional services expenses. The LOP budget was increased by \$200.0 million and the 3% project reserve is now \$89.4 million.

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

The allocated contingency decreased this period by \$3.7 million due to a Change Order for the C1045 Design/Build Contract.

| PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS | | | | | | | | |
|-----------------------------------------------|--------------------------------------------------------------------------------------------|-----------|---------|-----------|---------|--|--|--|
| | Original Contingency (Budget) Previous Period Current Period To-Date Contingen (Forecas | | | | | | | |
| Unallocated Contingency | 248,592 | (209,233) | - | (209,233) | 39,359 | | | |
| Allocated Contingency | 71,963 | 28,465 | (3,667) | 24,798 | 96,761 | | | |
| Total Contingency | 320,555 | (180,768) | (3,667) | (184,435) | 136,120 | | | |



| | C1034 | C1045 | C1048 | C1055 | C1056 | C1078 | Total |
|-----------------------|-------------|--------------|-------------|-------------|-------------|-------------|-----------|
| | 13 Executed | 121 Executed | 37 Executed | 25 Executed | 13 Executed | 51 Executed | Total |
| ■ Under \$100K | (164) | 667 | 574 | (1,179) | (3,325) | 1,217 | (2,211) |
| ■ \$100K to \$250K | 321 | 3,177 | 617 | 436 | 245 | 578 | 5,374 |
| ■ \$250K to \$1M | - | 16,249 | 1,051 | 391 | - | 5,034 | 22,724 |
| Over \$1M | - | 134,059 | - | - | 1,983 | 10,309 | 146,351 |
| Total Contract MODs | 157 | 154,151 | 2,242 | (352) | (1,097) | 17,138 | 172,239 |
| Contract Award Amount | 6,487 | 1,636,419 | 6,181 | 14,430 | 20,250 | 52,830 | 1,736,597 |
| % of Contract MODs | 2.4% | 9.4% | 36.3% | -2.4% | -5.4% | 32.4% | 9.9% |

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 twenty-one Contract MODs with a total value of \$154.2 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 November 2020:

| DBE Goal – Design The percentage of funds apportioned to Design Contracts | 20.25% |
|---------------------------------------------------------------------------------------------------------|--------------------|
| Current DBE Commitment Design Total DBE Committed Dollars divided by Total Contract Value for Design | \$13.6 M 20.25% |
| Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime | \$13.1M 19.85% |

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 Contract commitment divided by current contract value for Construction | \$200.3 M 12.53% |
| Current DBE Participation Total amount paid to date to DBEs divided by the amount paid to date to Prime | \$156.1 M 14.00% |

One hundred forty-seven (147) Construction DBE sub-contractors have been identified to date.

PROJECT LABOR AGREEMENTS (PLA)

As of November 2020:

| Targeted Worker Goal Construction work to be performed by residents from Economically Disadvantaged Areas in the United States | 40.00% |
|--------------------------------------------------------------------------------------------------------------------------------|--------|
| Targeted Worker Current Attainment | 62.10% |
| Apprentice Worker Goal Construction work to be performed by Apprentices | 20.00% |
| Apprentice Worker Current Attainment | 19.86% |
| Disadvantaged Worker Goal Construction work to be performed by disadvantaged workers | 10.00% |
| Disadvantaged Worker Current Attainment | 12.08% |

FINANCIAL/GRANT

Status of Funds by Source DOLLARS IN MILLIONS

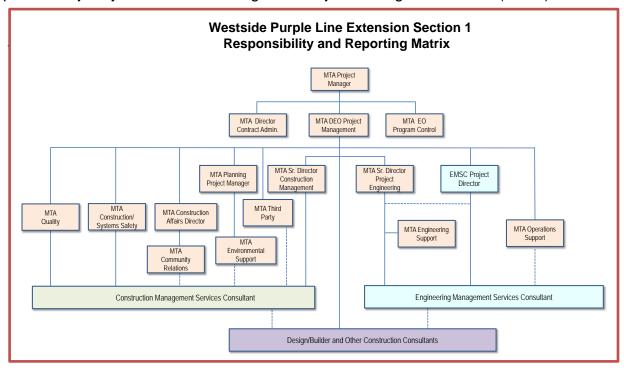
| SOURCE | (A) (B) (C) ORIGINAL TOTAL TOTAL BUDGET FUNDS FUNDS | | (D) (D/B) COMMITMENTS | | (E) (E/B) EXPENDITURES | | (F) (F/B) BILLED TO FUNDING SOURCE | | |
|----------------------------------------------|-----------------------------------------------------|-------------|--------------------------|-------------|---------------------------|-------------|------------------------------------|-------------|-------|
| | | ANTICIPATED | AVAILABLE | \$ | % | \$ | % | \$ | % |
| FEDERAL - SECTION 5309 NEW STARTS | \$1,250.000 | \$1,250.000 | \$665.000 | \$1,250.000 | 100% | \$642.000 | 51% | \$641.258 | 51% |
| 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 | \$1,213.622 | \$932.750 | \$639.993 | 53% | \$557.355 | 46% | \$541.278 | 45% |
| 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 | \$3,354.350 | \$2,414.495 | \$2,706.738 | 80.7% | \$2,016.100 | 60.1% | \$1,999.281 | 59.6% |

EXPENDITURES ARE CUMULATIVE THROUGH DECEMBER 31, 2020 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)

PROJECT ORGANIZATION AND STAFFING

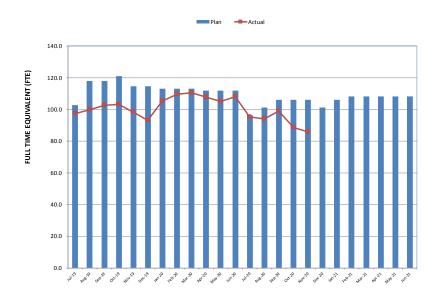
The design-build contract is being managed by a joint team of Metro and consultant personnel jointly located at the Integrated Project Management Office (IPMO).



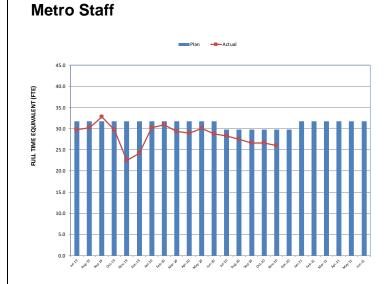
The overall FY21 Total Staffing Plan averages 105.4 FTEs per month.

For November 2020, there were a total of 26.0 FTEs for MTA's Project Administration Staff and 59.9 FTEs for Consulting Staff. The total project staffing for November 2020 was 85.9* FTEs.

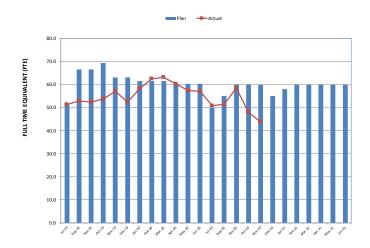
Total Project Staffing – Metro and Consultants



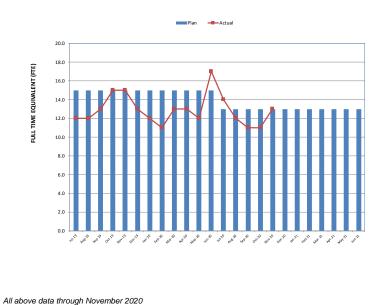
*Actuals include 2.98 FTEs related to Project Management Support Services (PMSS).



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

| | Purple Line Extension Section 1 - Real Estate Status Summary | | | | | | | |
|---------------|--------------------------------------------------------------|-----------|-------------------------|----------------|--------------------------------------|----------|-----------|-----------|
| D | Number | Certified | Appraisals Completed | Offers Made | Agreements/ Settlements Signed | Reloc | Parcels | |
| Description | of 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 has been reached and is expected to be closed in January 2021.

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 construction of roof structure, plenum structure, and HDPE.
 - Wilshire/Fairfax monitored entrance structure (SOE) excavation, concourse deck level walls, track level interior walls.
 - Wilshire/La Cienega engaged in oversight activities for construction of exterior walls (second lift), HDPE, roof structure, and concourse deck structure.
- Processed 42 surveillances, 22 Quality Action Requests (QARs), 30 Nonconformance Reports (NCRs) and one (1) Corrective Action Request (CAR).

C1078 - Division 20 MOW and NRV Building Location 64

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

ENVIRONMENTAL

- Resolved comments, provided supporting documentation, and coordinated with FTA/PMOC to close out MMRP report from third quarter of 2020 (Q30).
- Conducted field environmental monitoring and spot inspections for stormwater BMPs, dust, and cultural resources for Contract C1045 and third-party work activities.
- Coordinated with the Contractor to improve cycling of ventilation speeds at all yards during periods of inactivity based on feedback from residents within the Project area.

CONSTRUCTION AND COMMUNITY RELATIONS

- Attended virtual Neighborhood Council meetings, monthly environmental mitigation meetings, held meetings online and made Project presentations to: Beverly Hills residents and business stakeholders, elected officials' deputies, construction community meetings and various stakeholders.
- 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 that remained open for 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 Los Angeles City Council district offices 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:
 - Six (6) 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
 - o Monthly look-ahead emails for the City of Beverly Hills.

CREATIVE SERVICES

- Continued design development for artwork lighting.
- Continued design development for Wilshire Customer Center artwork relocation to Wilshire/Western Station.
- Continued design development for concourse glass tile artwork design at Wilshire/La Cienega Station.
- Coordination underway with design-builder for fabrication procurement.

SAFETY & SECURITY

- There were two (2) recordable injuries in December 2020.
- There were two (2) COVID-19 cases in December 2020.
- Metro Safety staff conducted daily safety inspections, attended weekly Tool Box, 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.
- Both Tunnel Boring Machines (TBM's) have stopped mining in Reach 3 (Wilshire/Fairfax to Wilshire/La Cienega) due to the discovered anomaly.
- November 2020 Contractor Work Hours (Design & Construction): 71,541
- Contractor Project to Date Work Hours (Design & Construction) (through 11/30/20): 4,182,967
- Total Project to Date Work Hours (Contractor & the IPO Staff) (through 11/30/20): 5,234,396
- Project to Date Recordable Injury Rate: 1.33 (35 Recordable Injuries) (each rate is per 200,000 work hours) (National Rate: 2.5)
- Project to Date Total Days Away (DART) Injury Rate: 0.115 (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

Westside Purple Line Extension Section 1 Project Quarterly Project Status Report

| 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 |
| | |

Westside Purple Line Extension Section 1 Project Quarterly Project Status Report

| 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. |
| | |

Westside Purple Line Extension Section 1 Project Quarterly Project Status Report

| 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. |