

Westside Purple Line Extension Section 2 Project



Metro®

WESTSIDE PURPLE LINE EXTENSION SECTION 2 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).

MARCH 2017


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PROJECT SUMMARY

| | | | | | | | |
|---|------------------|-----------------|------------------|---|------------|--------------|----------------|
| LOCATION: Los Angeles / Beverly Hills DESIGN CONSULTANT: Parsons Brinkerhoff | | | | CM CONSULTANT: AECOM, Saferwork, Morgner, TEC (PL2CM) CONTRACTOR: Tutor Perini / O&G (TPOG) | | | |
| Century City Constellation Joint Trench | | | | WORK COMPLETED PAST MONTH | | | |
|  | | | | <p>Century City Constellation</p> <ul style="list-style-type: none"> -Continuation of joint trench construction -AT&T design plans and worksite traffic control plan (WTCP) approved by LABOE/LADOT -LADWP Power design plans approved by LABOE <p>Wilshire/Rodeo</p> <ul style="list-style-type: none"> -Continue negotiations for a Memorandum of Agreement (MOA) governing utility work -Awaiting COBH staff comments on final WTCP and design plans for SCG and AT&T | | | |
| EXPENDITURE STATUS (\$ In Millions) | | | | SCHEDULE ASSESSMENT | | | |
| ACTIVITIES | CURRENT BUDGET | EXPENDED AMOUNT | PERCENT EXPENDED | MAJOR SCHEDULE ACTIVITIES | PRIOR PLAN | CURRENT PLAN | VARIANCE WEEKS |
| DESIGN | \$153.5 | \$40.7 | 26.5% | Environmental | | | |
| | | | | FEIS / FEIR | | 05/31/12 | |
| | | | | SEIS | | 09/06/17 | |
| RIGHT-OF-WAY | \$426.4 | \$95.1 | 22.3% | Design | | | |
| CONSTRUCTION | \$1,416.2 | \$4.3 | 0.3% | Approval to Enter into PE | N/A | 01/24/13 | Complete |
| | | | | Final Design Complete | | 10/25/19 | |
| OTHER | \$533.6 | \$13.1 | 2.5% | Right-of-Way | | | |
| TOTAL | \$2,529.7 | \$153.2 | 6.1% | All parcels available | | 11/19/19 | |
| Current Budget includes Environmental/Planning and Finance Costs. | | | | Construction - Main Design / Build Contract | | | |
| AREAS OF CONCERN | | | | Notice to Proceed | | 04/28/17 | Pending |
| | | | | Demobilization | | 10/23/25 | |
| | | | | | | | |
| ROW ACQUISITION | PLAN | AVAILABLE | REMAINING | CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD | | | |
| PERMANENT PARCELS | 34 | 0 | 34 | -Award NTP to C1120 contractor -Obtain construction permits from COBH for 3rd party construction at Wilshire/Rodeo -Commence 3rd Party Utility Relocations at Wilshire/Rodeo -Complete joint trench duct bank construction. -Commence cable pulling and splicing for Telecom at Century City | | | |
| TEMPORARY PARCELS | 3 | 0 | 3 | | | | |
| TOTAL PARCELS | 37 | 0 | 37 | | | | |

PROJECT OVERVIEW & STATUS

Section 2 of the Westside Purple Line Extension Project is the second 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 2 will extend the future Wilshire/La Cienega Station that is part of the Westside Purple Line Extension Section 1 Project currently under construction to the Century City area. 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 and two new stations as well as the purchase of 20 heavy rail vehicles. 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.

Design

The Engineering Management Services (EMS) team continues to provide design support for the Advanced Utility Relocation (AUR) work in Century City and real estate support services.

Major Contract Procurement

The recommendation to award the C1120 was presented to the Board at the January 26, 2017 Metro Board Meeting. The Board of Directors approved staff's recommendation to award to Tutor Perini/O & G, a Joint Venture (TPOG) and authorized the Chief Executive Officer (CEO) to award the 102-month firm fixed contract, subject to the resolution of any timely protests. Notice of Award for Contract C1120 was issued January 31, 2017 and Notice to Proceed is anticipated in April 2017.

Construction

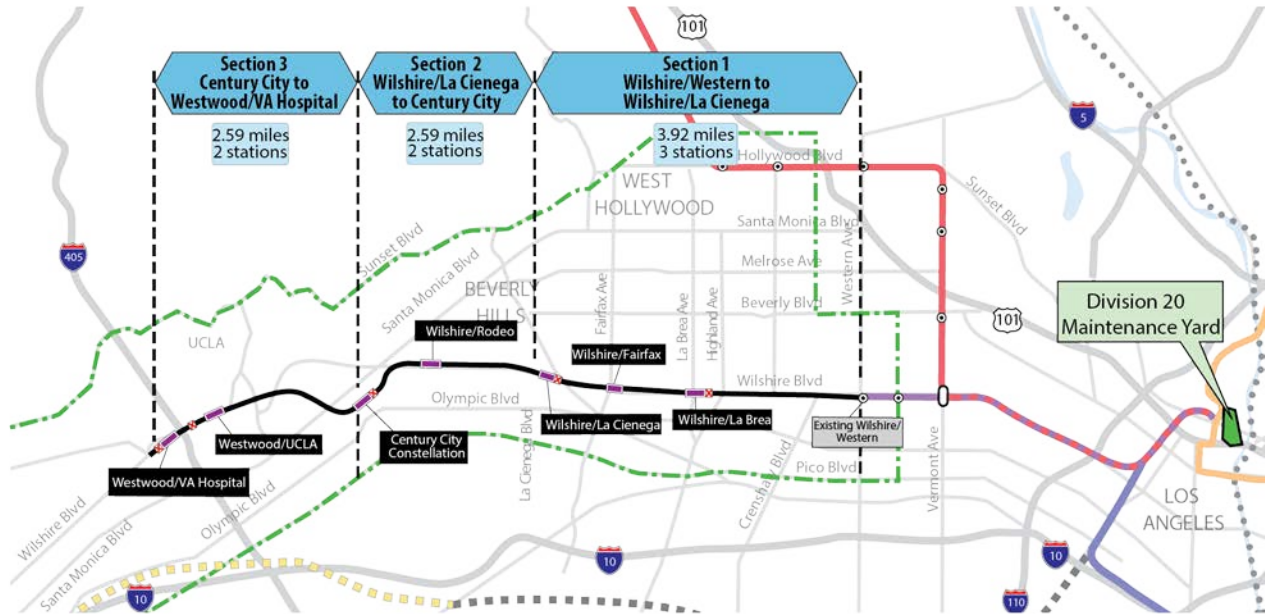
Construction of the telecom joint trench is proceeding in Century City. Duct bank work is planned to complete in June 2017 and cable pulling/splicing completion is anticipated in September 2017.

Advanced utility relocations are anticipated to begin at the Wilshire/Rodeo Station in June 2017.

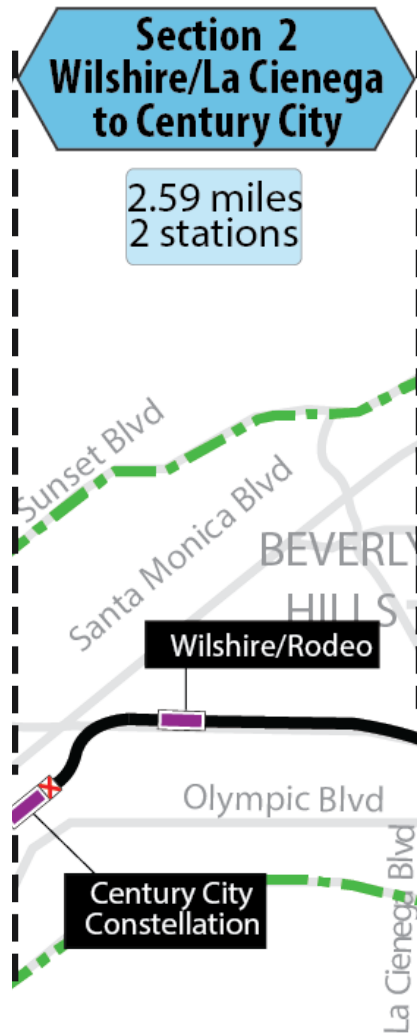
MANAGEMENT ISSUES

No Management Issues this period.

PROJECT ALIGNMENT by SECTIONS



PROJECT ALIGNMENT SECTION 2



BASE PROJECT SCOPE

Section 2 of the Westside Purple Line Extension Project is the second 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.

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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.

Contract C1120 – Tunnels, Stations, Trackwork, Systems and Systems Integration Testing

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 finish work. A tunnel boring launch (TBM) shaft will be constructed at the Century City Constellation Station. Two underground stations are to be constructed, one double crossover location, which is located east of the Century City Constellation Station which is the 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, 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.

BASE PROJECT SCOPE (Continued)

Metro Furnished Equipment





Metro has procured a separate contract to provide the 20 Heavy Rail Vehicles (HRV) and will procure a separate contract for the Universal Fare System (UFS) necessary to operate the Purple Line. 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 stations and system testing.

Start Up

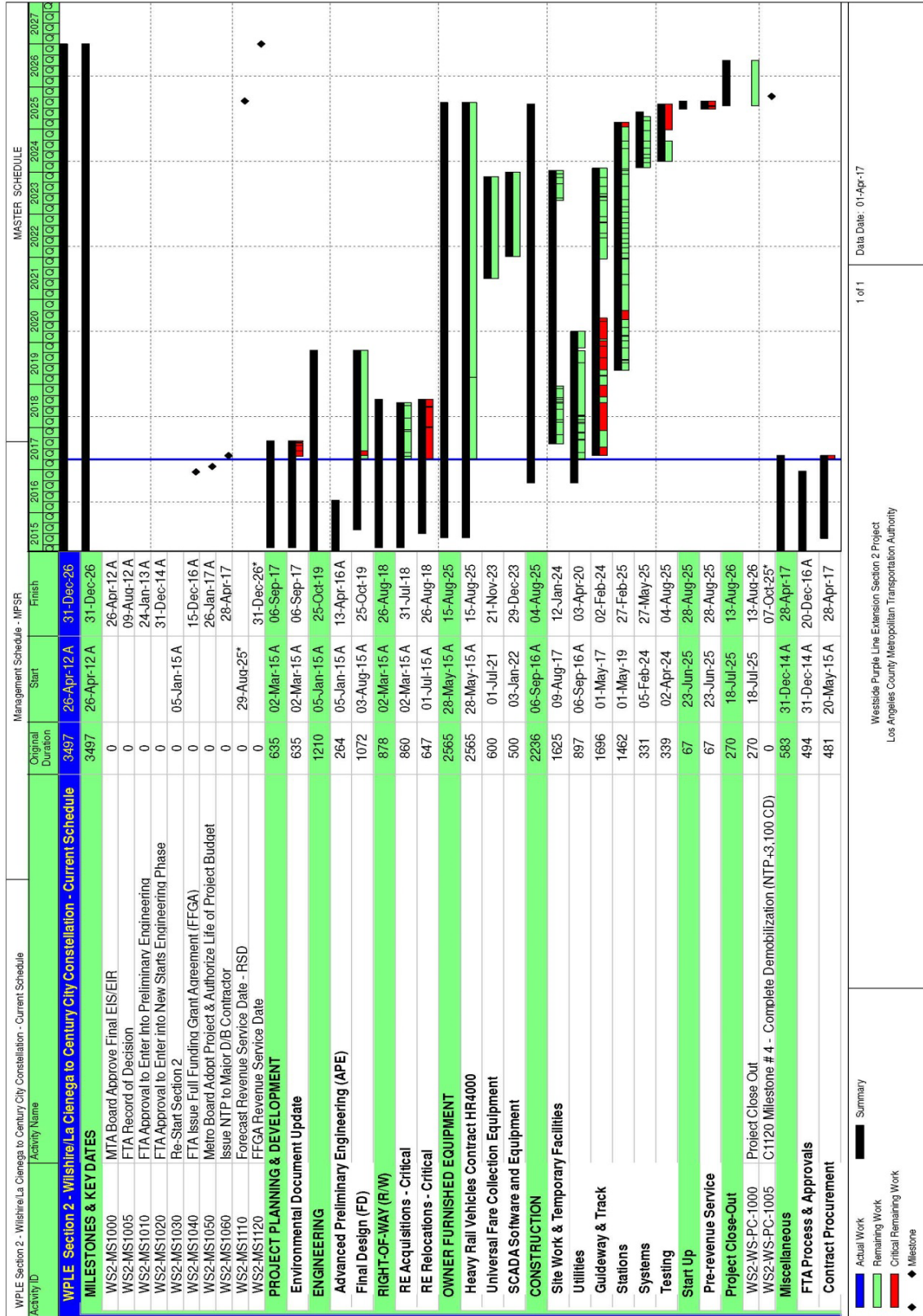
The commencement of pre-revenue operations will be determined by Metro. Generally, all systems integration testing will have been completed and passed. All testing will be required to include and pass a “stress test” of maximum operational service levels to be acceptable. Pre-Revenue Operations include 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 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.

KEY MILESTONES SIX-MONTH LOOK AHEAD

| | Milestone Date | Apr-17 | May-17 | Jun-17 | Jul-17 | Aug-17 | Sep-17 |
|--|----------------|--------|--------|--------|--------|--------|--------|
| Request construction permit from COBH for 3rd party utility relocation construction | 04/20/17 | △ | | | | | |
| Issue NTP to C1120 Contractor | 04/28/17 | ◆ | | | | | |
| Third party utility construction start at Century City Constellation - DWP Power | 05/01/17 | | △ | | | | |
| Third party utility construction start at Century City Constellation - AT&T | 05/22/17 | | △ | | | | |
| Third party utility construction start at Wilshire/Rodeo - SCE | 06/21/17 | | | △ | | | |
| Joint trench (ducts and vaults) completion at Century City Constellation | 06/30/17 | | | △ | | | |
| Third party utility cable pulling & splicing start at Century City Constellation -Telecom | 07/03/17 | | | | △ | | |
| Third party utility cable pulling & splicing complete at Century City Constellation -Telecom | 09/29/17 | | | | | | △ |

 MTA Staff
  MTA Board Action
 FTA (Federal Transit Administration)
  Other Agencies
  Contractor

PROJECT SUMMARY SCHEDULE



Data Date: 01-Apr-17

1 of 1

Westside Purple Line Extension Section 2 Project
 Los Angeles County Metropolitan Transportation Authority

- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone

SCHEDULE MEASUREMENTS

To be provided when the baseline schedule for Contract C1120 has been approved.

OVERALL CONSTRUCTION PROGRESS CURVE

To be provided when the baseline schedule for Contract C1120 has been approved.

MAJOR EQUIPMENT DELIVERY

To be provided when the baseline schedule for Contract C1120 has been approved.

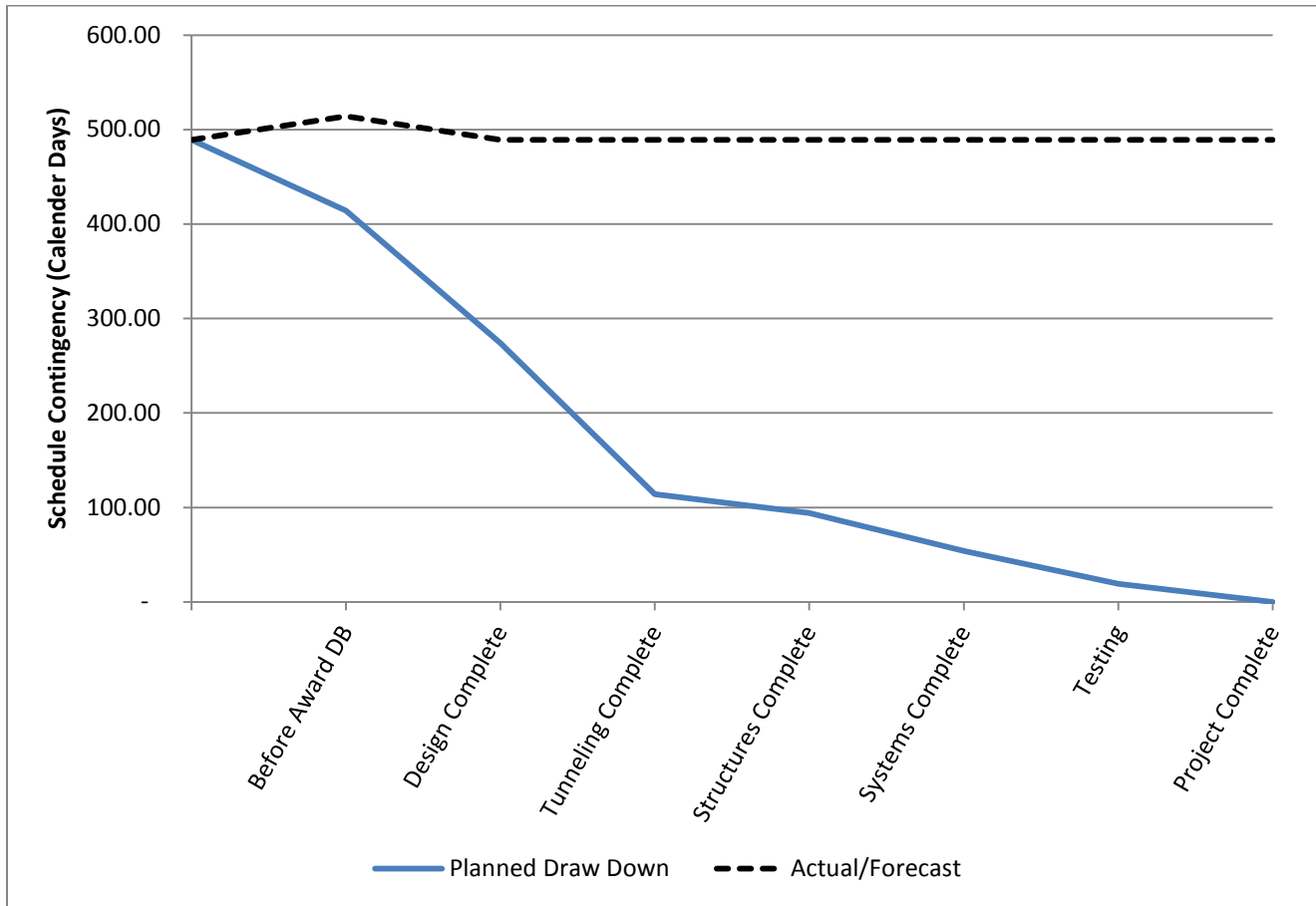
DESIGN BUILDER'S (C1120) LONG LEAD ITEM LIST

To be provided when the baseline schedule for Contract C1120 has been approved.

CRITICAL PATH NARRATIVE

The Critical Path begins with the procurement process for the C1120 Design/Build contract, mobilization of the design team for the contractor, and the start of final design for station boxes and tunnels. The Design/Build contractor begins installation of soldier piles, first on the north side of the Century City Constellation Station box, and then on the south side. Temporary Street decking is then installed, the station structural box is excavated, and invert concrete is placed. Concurrently with this is the procurement and assembly of the tunnel boring machines (TBM). The path continues with tunneling and then street decking, station box excavation and concrete invert at the Wilshire/Rodeo Station. The path then follows into systems integration and testing and pre-revenue operations.

PROJECT SCHEDULE CONTINGENCY DRAWDOWN



PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown curve is based on an August 29, 2025 Revenue Service Date (RSD).

PROJECT COST STATUS

DOLLARS IN THOUSANDS

| SCC CODE | DESCRIPTION | ORIGINAL BUDGET | CURRENT BUDGET | | COMMITMENTS | | EXPENDITURES | | CURRENT FORECAST | | FORECAST/ BUDGET VARIANCE |
|---|--|------------------|----------------|------------------|-------------|------------------|---------------|----------------|------------------|------------------|---------------------------|
| | | | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | PERIOD | TO DATE | |
| 10 | GUIDEWAY & TRACK ELEMENTS | 346,440 | - | 346,440 | - | 329,943 | - | - | - | 346,440 | - |
| 20 | STATIONS, STOPS, TERMINALS, INTERMODAL | 434,990 | - | 434,990 | - | 410,368 | - | - | - | 434,990 | - |
| 30 | SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS | - | - | - | - | - | - | - | - | - | - |
| 40 | SITWORK & SPECIAL CONDITIONS | 553,282 | - | 553,282 | 307 | 518,255 | 51 | 4,322 | - | 553,282 | - |
| 50 | SYSTEMS | 81,457 | - | 81,457 | - | 68,537 | - | - | - | 81,457 | - |
| CONSTRUCTION SUBTOTAL (10-50) | | 1,416,169 | - | 1,416,169 | 307 | 1,327,103 | 51 | 4,322 | - | 1,416,169 | - |
| 60 | ROW, LAND, EXISTING IMPROVEMENTS | 426,396 | - | 426,396 | - | 166,839.29 | 11,799 | 95,087 | - | 426,396 | - |
| 70 | VEHICLES | 42,000 | - | 42,000 | - | - | - | - | - | 42,000 | - |
| 80 | PROFESSIONAL SERVICES | 374,878 | - | 374,878 | 0 | 167,592 | 866 | 52,416 | - | 374,878 | - |
| SUBTOTAL (10-80) | | 2,259,444 | - | 2,259,444 | 307 | 1,661,534 | 12,716 | 151,825 | - | 2,259,444 | - |
| 90 | UNALLOCATED CONTINGENCY | 177,176 | - | 177,176 | - | - | - | - | - | 177,176 | - |
| 100 | FINANCE CHARGES | 88,695 | - | 88,695 | - | - | - | - | - | 88,695 | - |
| TOTAL PROJECT 865522 (FFGA & NON-FFGA CONCURRENT ACTIVITIES) | | 2,525,314 | - | 2,525,314 | 307 | 1,661,534 | 12,716 | 151,825 | - | 2,525,314 | - |
| ENVIRONMENTAL/PLANNING - 465518 & 465522 | | 4,349 | - | 4,349 | - | 1,793 | 12 | 1,391 | - | 4,349 | - |
| TOTAL PROJECT 465518 & 465522 (ENV / PLAN'G) | | 4,349 | - | 4,349 | - | 1,793 | 12 | 1,391 | - | 4,349 | - |
| TOTAL PROJECTS 465518, 465522 & 865522 | | 2,529,664 | - | 2,529,664 | 307 | 1,663,326 | 12,728 | 153,216 | - | 2,529,664 | - |

PROJECT COST ANALYSIS

Original Budget, Current Budget and Forecast

The Original Budget, Current Budget and Forecast 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.

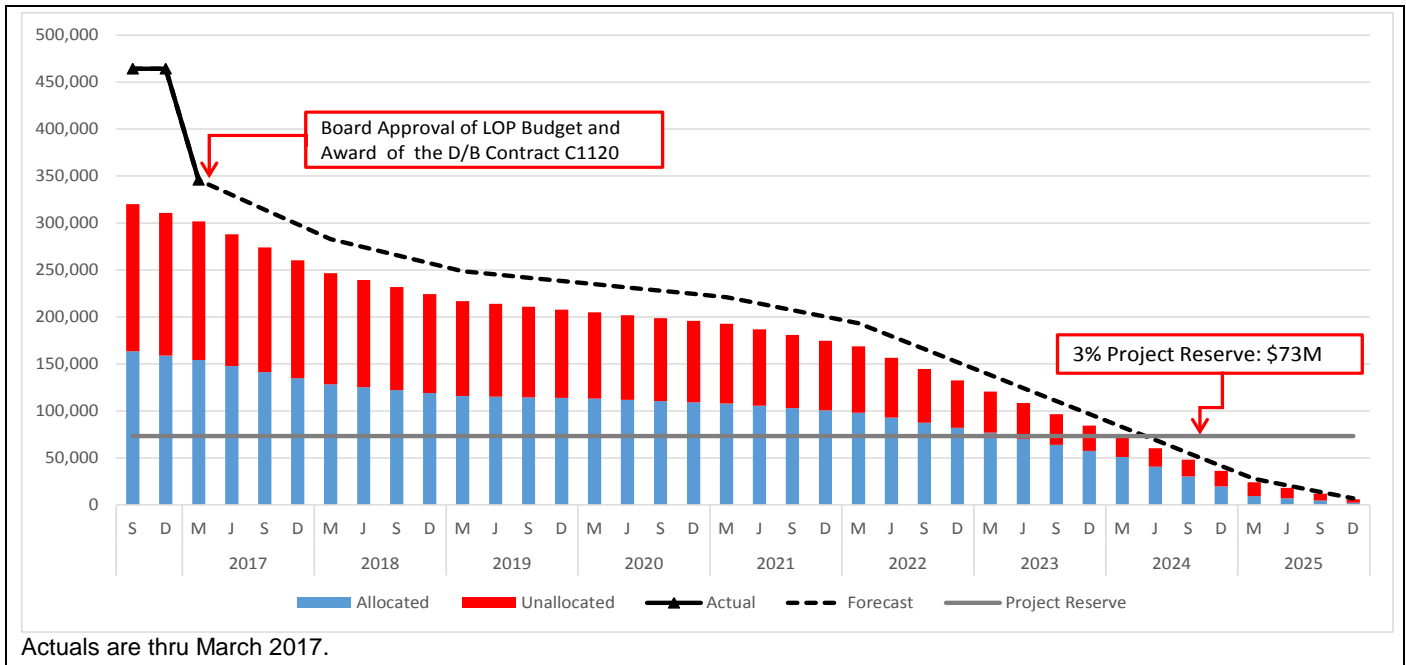
Commitments

The Commitments increased this period by \$0.3 million primarily due to executed work orders for private utility companies. The \$1.7 billion in Commitments to date represents 65.8% of the Current Budget.

Expenditures

The Expenditures increased this period by \$12.7 million this period primarily for costs associated with Environmental, Real Estate Acquisitions, Engineering Management Services, Metro Project Administration and Legal Services. The \$153.2 million in Expenditures to date represents 6.1% of the Current Budget.

PROJECT COST CONTINGENCY DRAWDOWN



PROJECT COST CONTINGENCY DRAWDOWN ANALYSIS

The Current Budget of \$2.5 billion includes finance charges totaling \$88 million. It also, includes a project cost contingency of \$345.7 million or 13.7% of the total project, which is based upon the Life of Project (LOP) Budget approved by the Board in January 2017. Included in the total cost contingency is an allocated contingency amount of \$168.5 million. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro where applicable to specific contracts within each Standard Cost Category (SCC).

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 an August 29, 2025 Forecast Revenue Service Date (RSD).

The project contingency remained unchanged this period.

| PROJECT COST CONTINGENCY | | | | | |
|---------------------------------|--------------------------------------|------------------------|-----------------------|----------------|---|
| DOLLARS IN THOUSANDS | | | | | |
| | Original Contingency (Budget) | Previous Period | Current Period | To-Date | Remaining Contingency (Forecast) |
| Unallocated Contingency | 177,176 | 0 | 0 | 0 | 177,176 |
| Allocated Contingency | 168,534 | 0 | 0 | 0 | 168,534 |
| Total Contingency | 345,710 | 0 | 0 | 0 | 345,710 |

DISADVANTAGED BUSINESS ENTERPRISE (DBE)

To be provided after NTP is issued for Contract C1120.

PROJECT LABOR AGREEMENTS (PLA) STATUS

To be provided after NTP is issued for Contract C1120.

SUMMARY OF CONTRACT MODIFICATIONS

To be provided after NTP is issued for C1120 Contract.

FINANCIAL/GRANT STATUS

| SOURCE | (IN MILLIONS OF DOLLARS) | | | | | | | | | |
|-----------------------------------|--------------------------|-------------------------------|-----------------------------|--------------------|--------------|--------------------|-------------|-----------------------------------|-------------|--|
| | (A) | (B) | (C) | (D) | (D/B) | (E) | (E/B) | (F) | (F/B) | |
| | ORIGINAL BUDGET | TOTAL FUNDS ANTICIPATED | TOTAL FUNDS AVAILABLE | COMMITMENTS \$ | % | EXPENDITURES \$ | % | BILLED TO FUNDING SOURCE \$ | % | |
| FEDERAL - SECTION 5309 NEW STARTS | \$1,187.000 | \$1,187.000 | \$100.000 | \$1,043.956 | 88% | \$63.388 | 5% | \$63.388 | 5% | |
| FEDERAL CMAQ | \$169.000 | \$169.000 | \$43.000 | \$43.000 | 25% | \$0.000 | 0% | \$0.000 | 0% | |
| MEASURE R - TIFIA LOAN | \$307.000 | \$307.000 | \$307.000 | \$307.000 | 100% | \$0.000 | 0% | \$0.000 | 0% | |
| MEASURE R 35% | \$811.902 | \$811.902 | \$119.862 | \$214.608 | 26% | \$35.066 | 4% | \$32.937 | 4% | |
| 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 | \$624.624 | \$1,663.326 | 65.8% | \$153.216 | 6.1% | \$151.087 | 6.0% | |

STATUS OF FUNDS ANTICIPATED

FEDERAL SECTION 5309 NEW STARTS: FTA grant CA-2016-047 for \$100.0 million was awarded by the FTA on December 15, 2016. Funds are available for drawdown.

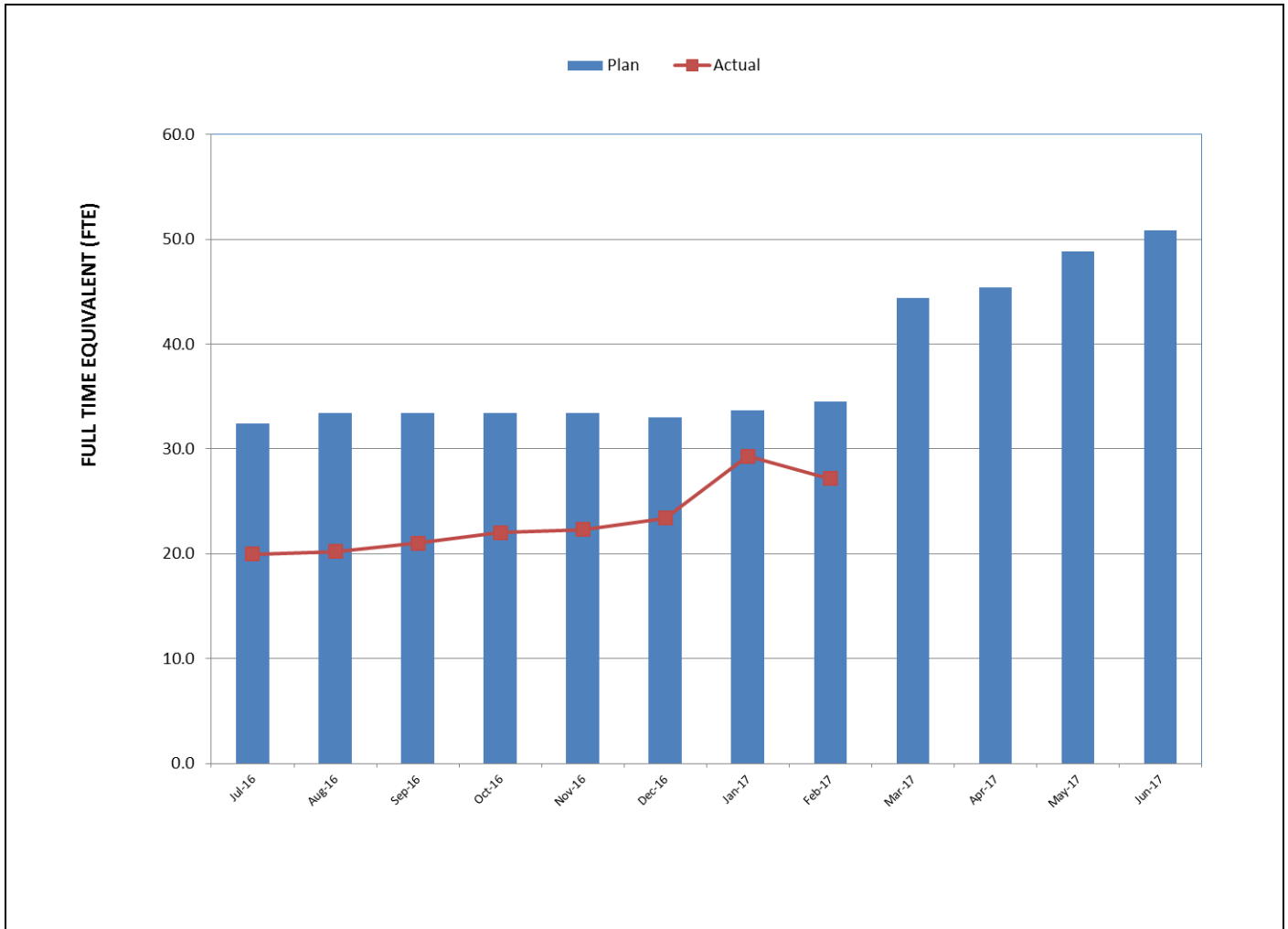
CMAQ (Congestion Mitigation & Air Quality): FTA grant CA-2016-2045 for \$43.0 million was awarded by the FTA on December 15, 2016. Funds are available for drawdown.

MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act): TIFIA Loan was executed on December 20, 2016 for \$307.0 million. First disbursement is planned for FY17.

MEASURE R: \$119.9 million have been allocated to the Project through FY16. Funds are available for drawdown.

STAFFING STATUS

Total Project Staffing – FTEs

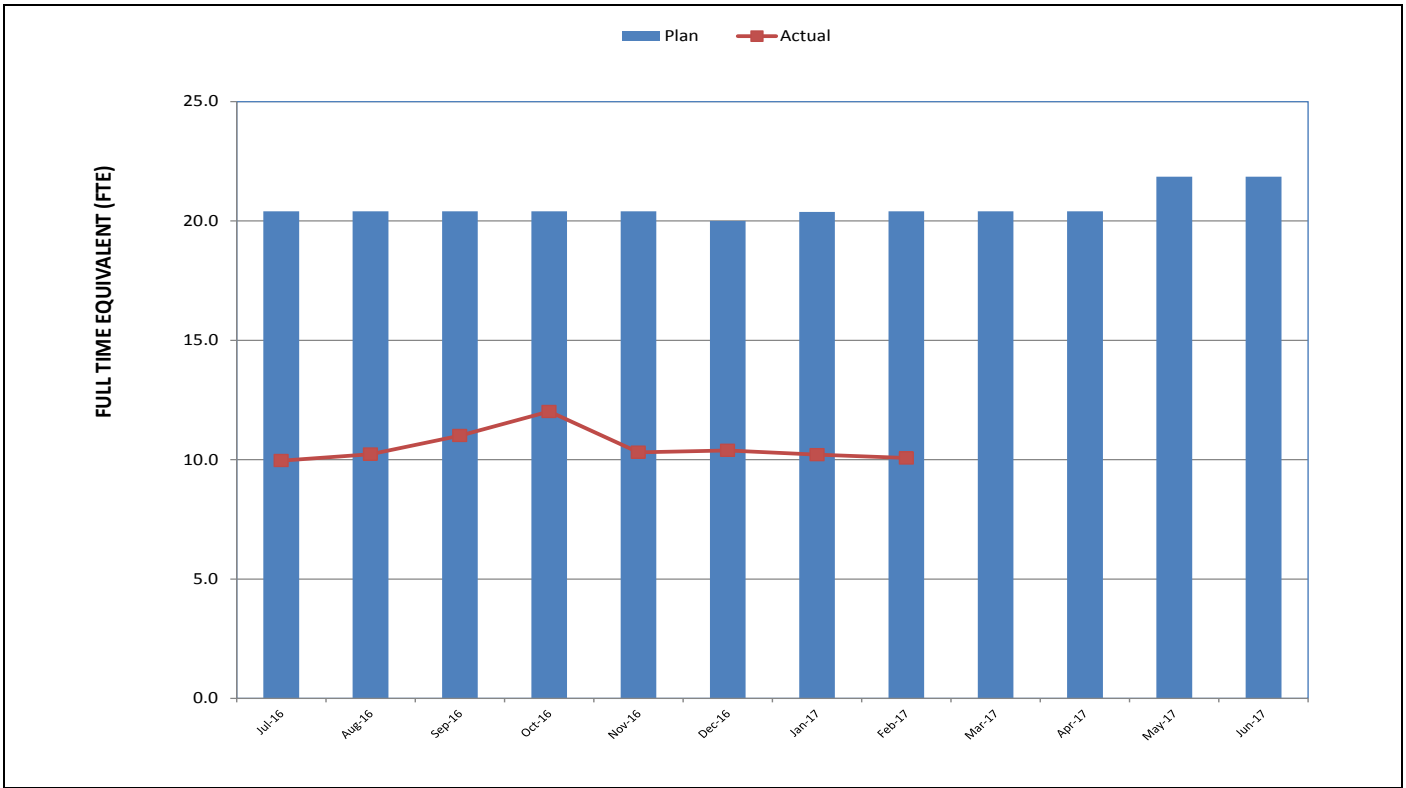


TOTAL PROJECT STAFFING

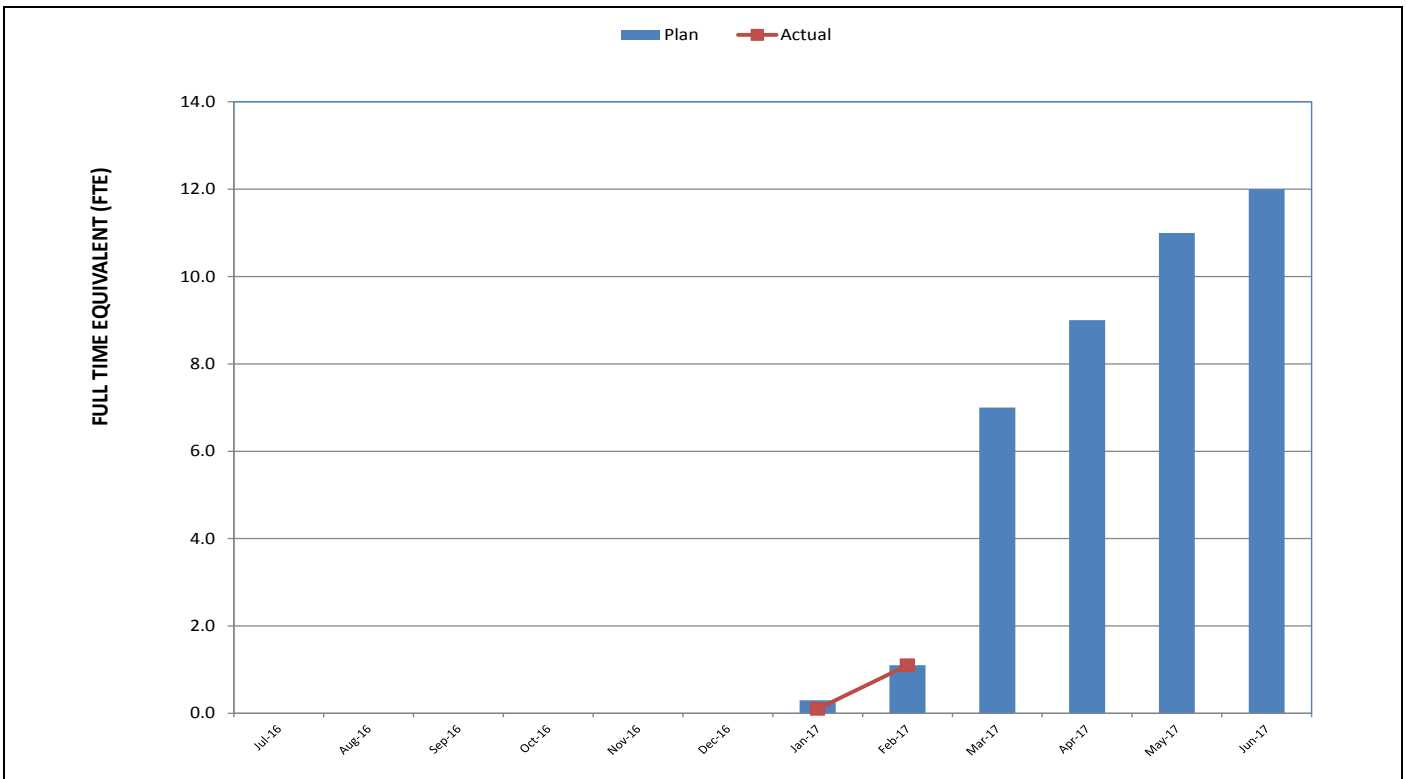
The overall FY17 Total Project Staffing Plan averages 38.1 FTEs per month.

For February 2017, there were a total of 10.1 FTEs for MTA's Project Administration Staff and 17.1 FTEs for Consulting Staff. The total project staffing for February 2017 was 27.2 FTEs.

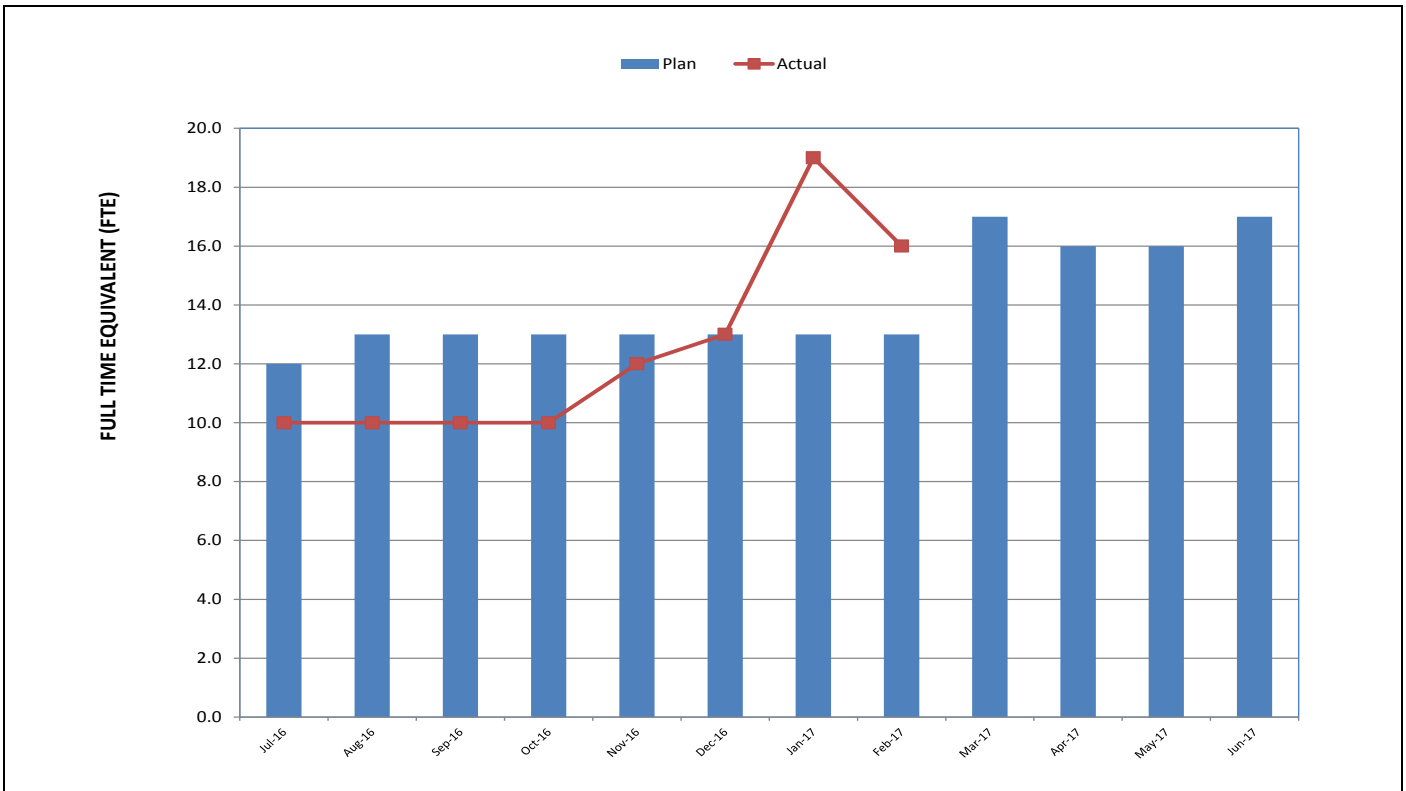
**STAFFING STATUS (Continued)
METRO STAFFING – FTEs**



**CONSTRUCTION MANAGEMENT SUPPORT
SERVICES CONSULTANT – FTEs**



STAFFING STATUS (Continued) ENGINEERING MANAGEMENT SERVICES CONSULTANT – FTEs



REAL ESTATE STATUS

| Real Estate Status Summary | | | | | | | | | |
|-----------------------------------|-------------------|-----------|----------------------|-------------|-------------------|--------------------|-------------|-----------|-------------------|
| Description | Number of Parcels | Certified | Appraisals Completed | Offers Made | Agreements Signed | Condemnation Filed | Relocations | | Parcels Available |
| | | | | | | | Required | Completed | |
| Full Takes | 3 | 3 | 3 | 3 | 1 | 2 | 19 | 2 | 0 |
| Part Takes | 2 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 |
| TCE | 3 | 3 | 1 | 1 | 0 | 0 | 6 | 0 | 0 |
| SSE | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Permanent Easements | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Surface Easements | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total Parcels | 37 | 7 | 5 | 5 | 1 | 2 | 26 | 2 | 0 |

QUALITY ASSURANCE STATUS

- None to report at this time.

ENVIRONMENTAL STATUS

- Performed daily noise monitoring activities at Century City Constellation Station for utility relocation work and submitted daily field reports.
- Participated in weekly project construction meetings and reported on environmental compliance with local, state and federal regulations, specifications and EIR.
- Provided environmental awareness training to construction crew, as required.
- Worked on noise and dust/emissions FAQ sheets to be uploaded to PLE website.
- *Completed January 2017 Noise Monitoring Report for Century City Constellation Station.*
- *Participated in comment/resolution meeting with the PMOC regarding the Q6 and Q7 Mitigation Measures Status Reports (MMSR).*
- *Worked with COLA on CEQA Review Section Special Permit Process for Century City Constellation Station.*
- *Participated in SCE Pre-Construction Meeting for Wilshire/Rodeo Station.*
- *Completed fieldwork for Wilshire/Rodeo Station Ambient Noise Study.*

CONSTRUCTION RELATIONS STATUS

- *Produced and distributed one pre-construction work notice for advance utility relocations.*
- *Visited and updated businesses and residences at future station locations to discuss advanced utility relocations.*
- *Made Project presentations at the following: Spago Restaurant Meeting, Walk 4 Alzheimer's Meeting, Annenberg Museum Meeting, Motion Pictures Trust Fund Meeting, Sarah Shaw Meeting, City of Beverly Hills Business Interruption Fund Meeting, Elected Officials Project Meeting, Hines Property Management Meeting and Beverly/Cannon Dr. Committee Meeting.*
- Attended the following meetings: Construction Management, Advanced Utility Relocations, Construction Relations, Environmental Mitigations, Third Party Workshop, Marketing, Social Media and Bus Relocations and Stops.
- Updated social media as needed.

CREATIVE SERVICES STATUS

- *Reviewed artwork opportunities for Century City Constellation Station portal reconfiguration.*
- *Conducted community outreach and coordinated cultural partnerships.*

SAFETY & SECURITY STATUS

- *Third party advanced utility relocation work is being completed in the field. No injuries were reported during March 2017.*
- *Third party construction work is being monitored to document contractor compliance with regulations and good business practices.*
- *Injury and work hour statistics will be tracked once the Design/Builders is onboard.*
- *Attended Section 2 Weekly Project Issues Meeting, Telecom Joint Trench Construction Meeting and Wilshire/Rodeo Station SCE Relocation Pre-Construction Meeting.*

THIRD PARTY AGREEMENT STATUS

| No. | Third Party | Type of Agreement | Forecast Execution Date | Required Need Date | Status/ Comments |
|-----|--|-------------------------------|-------------------------|--------------------|--|
| 1 | City of Los Angeles (LA) | Master Cooperative Agreement | N/A | N/A | Parties will work under 2003 MCA. |
| 2 | City of Beverly Hills (COBH) | Memorandum of Agreement | 5/17 | 5/17 | Beverly Hills City Council authorized the City Manager to execute the reimbursement agreement on March 1, 2016 and it was presented to the Metro Board and approved at the September 2016 Board. Negotiations for a Memorandum of Agreement (MOA) governing utility work began in March 2017. |
| 3 | Los Angeles Department of Water and Power (LADWP)- WATER & POWER | Master Cooperative Agreement | N/A | N/A | Metro and LADWP will continue to work under the terms of the previous Master Cooperative Agreement. |
| 4 | Los Angeles County Public Works Flood Control | Master Cooperative Agreement | N/A | N/A | Executed. |
| 5 | Private Utilities | Utility Cooperative Agreement | 5/17 | 5/17 | Level 3 - Metro and Level 3 have initiated a new agreement. Currently, awaiting comments from Level 3. Time Warner Cable Pacific West LLC, D/B/A Time Warner Cable - County Counsel to respond to Time Warner's latest comments. SCE - Metro and SCE have initiated a new agreement. A draft is under review. Veolia - A draft agreement has been submitted to Veolia for review and comment. Sprint - Draft of Agreement submitted to Sprint, currently pending comments. |
| | | | N/A | N/A | AT&T, Pac Bell, SBC, MCI, Verizon, Southern California Gas Company (SCGC), TCG Los Angeles - Metro is working with affected third party utilities under existing agreements. |
| | | | 05/17 | 05/17 | Zayo, XO Communications, LLC - The agreement has been finalized and will be presented to the Metro Board. |

ADVANCED UTILITY RELOCATION STATUS

Century City Constellation AUR

- Telecommunication relocation is underway. *Completion of infrastructure work is currently planned for June 2017, and cable pulling and splicing in September 2017. Construction Management is being performed by CES and VCI is performing the construction work.*
- *LADWP Power relocations anticipated to begin in May 2017.*

Wilshire/Rodeo AUR

- *City of Beverly Hills Council permit approval for SCE relocations anticipated in April 2017 and construction to begin in June 2017.*

PEAK HOUR AND NIGHTTIME CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate the Project needs. Metro staff is working with the City of Beverly Hills, City of Los Angeles Bureau of Engineering and the Los Angeles Police Commission to obtain Peak Hour Exemptions and Nighttime Construction Variances. *Current efforts include the Peak Hour Exemption application for the TBM launch box excavation on Constellation Boulevard. Nighttime noise variance for relocation of third party utilities on Constellation Boulevard is approved through October 2017.*

CHRONOLOGY OF EVENTS

| | |
|----------------|---|
| August 2012 | FTA Record of Decision |
| January 2013 | FTA approval to enter to Preliminary Engineering |
| December 2014 | FTA approval to enter to 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 | Commenced 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 Contract C1120 and approved Life-of-Project Budget |
| January 2017 | Issued C1120 Contract Award |

CONSTRUCTION PHOTOGRAPHS



Century City Constellation Joint Trench



Century City Constellation Joint Trench

**APPENDIX
COST AND BUDGET TERMINOLOGY**

Project Cost Descriptions

| | |
|------------------|---|
| ORIGINAL BUDGET | The Original Project Budget as authorized by the Metropolitan Transportation Authority (Metro) Board. |
| CURRENT BUDGET | The Original Budget plus all budget amendments approved by formal Metro Board action. Also referred to as Approved Budget. |
| COMMITMENTS | The total of actual contracts awarded, executed change orders or amendments, and approved work orders of Master Cooperative Agreements, offers accepted for purchase of real estate, and other Metro actions which have been spent or result in the obligation of specific expenditures at a future time. |
| EXPENDITURES | The total dollar amount of funds expended by Metro for contractor or consultant services, third party services, staff salaries, real estate and other expenses that is reported in Metro's Financial Information System (FIS). |
| CURRENT FORECAST | The best estimate of the final cost of the Project when all checks have been issued and the Project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for each budgeted cost item. |

Cost Report by Element Descriptions

| | |
|-----------------------|---|
| CONSTRUCTION | Includes construction contracts. Cost associated with Guideways, Stations, Southwestern Yard, Sitework/Special Conditions and Systems. |
| RIGHT-OF-WAY | Includes purchase cost of parcels, easements, right-of-entry permits, escrow fees, contracted real estate appraisals and tenant relocation. |
| VEHICLES | Includes the purchase of Heavy Rail Vehicles and spare parts for the Project. |
| PROFESSIONAL SERVICES | Includes design engineering, project management assistance, construction management support services, legal counsel, agency staff costs, and other specialty consultants. |
| CONTINGENCY | A fund established at the beginning of a project to provide for anticipated but unknown additional costs that may arise during the course of the Project. |
| PROJECT REVENUE | Includes all revenue received by Metro as a direct result of project activities. This includes cost sharing construction items, insurance premium rebates, and the like. |

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|----------|---|
| ATC | Automatic Train Control |
| ATSAC | Automated Traffic Surveillance and Control |
| BAFO | Best and Final Offer |
| BIM | Building Information Modeling |
| BNSF | Burlington Northern Santa Fe Railway Company |
| BRT | Bus Rapid Transit |
| CADD | Computer Aided Drafting and Design |
| CALTRANS | California Department of Transportation |
| CCTV | Closed Circuit Television |
| CD | Calendar Day |
| CEQA | California Environmental Quality Act |
| CM | Construction Manager |
| CMAQ | Congestion Mitigation and Air Quality Improvement Program |
| CMSSC | Construction Management Support Services Consultant |
| CN | Change Notice |
| CO | Change Order |
| COBH | City of Beverly Hills |
| COLA | City of Los Angeles |
| CPM | Critical Path Method |
| CPUC | California Public Utilities Commission |
| CR | Camera Ready |
| CRMMP | Cultural Resource Monitoring and Mitigation Plan |
| CSPP | Construction Safety Phasing Plan |
| CTC | California Transportation Commission |
| CUD | Contract Unit Description |
| DB | Design Build |
| DBB | Design Bid Build |
| DOT | Department of Transportation |
| DWP | Department of Water and Power |
| EIR | Environmental Impact Report |
| EIS | Environmental Impact Statement |
| EMS | Engineering Management Services |
| EPBM | Earth Pressure Balance Machine |
| FAA | Federal Aviation Administration |
| FAR | Federal Acquisition Regulation |
| FD | Final Design |
| FEIS | Final Environmental Impact Statement |
| FEIR | Final Environmental Impact Report |
| FIS | Financial Information System |
| FLSR | Fire Life Safety Report |
| FONSI | Finding of No Significant Impact |
| FRA | Federal Railroad Administration |
| FSEIR | Final Supplemental Environmental Impact Report |
| FSEIS | Final Supplemental Environmental Impact Statement |

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

| | |
|--------|--|
| FTA | Federal Transit Administration |
| FTE | Full Time Equivalent |
| GBR | Geotechnical Baseline Report |
| GDSR | Geotechnical Design Summary Report |
| HRT | Heavy Rail Transit |
| HRV | Heavy Rail Vehicle |
| IFB | Invitation for Bid |
| IPMO | Integrated Project Management Office |
| JV | Joint-Venture |
| LA | Los Angeles |
| LABOE | Los Angeles Bureau of Engineering |
| LABOS | Los Angeles Bureau of Sanitation |
| LABSL | Los Angeles Bureau of Street Lighting |
| LACFCD | Los Angeles County Flood Control District |
| LACMTA | Los Angeles County Metropolitan Transportation Authority |
| LADOT | Los Angeles Department of Transportation |
| LADPW | Los Angeles Department of Public Works |
| LADWP | Los Angeles Department of Water and Power |
| LAUSD | Los Angeles Unified School District |
| LAWA | Los Angeles World Airports |
| LAX | Los Angeles International Airport |
| LNTF | Limited Notice To Proceed |
| LONP | Letter Of No Prejudice |
| LOP | Life-of-Project |
| LPA | Locally Preferred Alternative |
| L RTP | Long Range Transportation Plan |
| | |
| MCA | Master Cooperative Agreement |
| MIS | Major Investment Study |
| MMRP | Mitigation Monitoring and Reporting Plan |
| MOU | Memorandum of Understanding |
| MPSR | Monthly Project Status Report |
| N/A | Not Applicable |
| NEPA | National Environmental Protection Act |
| NOD | Notice of Determination |
| NPDES | National Pollution Discharge Elimination System |
| NTE | Not to Exceed |
| NTP | Notice To Proceed |
| OCC | Operations Control Center |
| OSHA | Occupational Health and Safety Administration |
| PA/VMS | Public Address/Visual Messaging Sign |
| PE | Preliminary Engineering |

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

| | |
|--------|---|
| PEER | Permit Engineering Evaluation Report |
| PIP | Project Implementation Plan |
| PLA | Project Labor Agreement |
| PM | Project Manager |
| PMIP | Project Management Implementation Plan |
| PMOC | Project Management Oversight Consultant |
| PMP | Project Management Plan |
| P&P | Policies & Procedures |
| PR | Project Report |
| PRMMP | Paleontological Resource Monitoring Mitigation Plan |
| PSR | Project Study Report |
| QA | Quality Assurance |
| QAR | Quality Assurance Report |
| QC | Quality Control |
| QPSR | Quarterly Project Status Report |
| QTIB | Qualified Transit Improvement Bonds |
| RAMP | Real Estate Acquisition Management Plan |
| RCHAR | Rail Crossing Hazards Analysis Report |
| RCMP | Risk Assessment Management Plan |
| RFC | Request For Change |
| RFP | Request For Proposals |
| RFSC | Request for Special Consideration |
| RHA | Risk Hazard Analysis |
| ROC | Rail Operations Center |
| ROD | Record Of Decision |
| ROM | Rough Order of Magnitude |
| ROW | Right-Of-Way |
| RPZ | Runway Protection Zone |
| RSD | Revenue Service Date |
| SAV | Stand Alone Validator |
| SCAQMD | Southern California Air Quality Management District |
| SCADA | Supervisory Control and Data Acquisition |
| SCC | Standard Cost Category |
| SCE | Southern California Edison |
| SCG | Southern California Gas Company |
| SCRRA | Southern California Regional Rail Authority |
| SHA | State Highway Account |
| SHPO | State Historic Preservation Office |
| SIT | System Integration Testing |
| SOQ | Statement of Qualification |
| SOV | Schedule Of Value |
| SOW | Statement Of Work |
| SP | Special Provision |

APPENDIX

LIST OF ACRONYMS AND ABBREVIATIONS (Continued)

| | |
|-------|--|
| SP | Special Provision |
| SSMP | Safety and Security Management Plan |
| STB | Surface Transportation Board |
| STIP | State Transportation Improvement Program |
| STP | Surface Transportation Program |
| STV | STV Group |
| SWPPP | Storm Water Pollution Prevention Plan |
| TBD | To Be Determined |
| TBM | Tunnel Boring Machine |
| TCE | Temporary Construction Easement |
| TCRP | Traffic Congestion Relief Program |
| TIFIA | Transportation Infrastructure Finance and Innovation Act |
| TIGER | Transportation Investment Generating Economic Recovery |
| TPSS | Traction Power Substation |
| TRACS | Transit Automatic Control System |
| TVA | Threat Vulnerability Analysis |
| TVM | Ticket Vending Machine |
| UFS | Universal Fare System |
| USDOT | United States Department Of Transportation |
| VE | Value Engineering |
| WBS | Work Breakdown Structure |
| WP | Work Package |
| YOE | Year of Expenditure |