# 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 2015** 

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### **PROJECT SUMMARY**

LOCATION:         Los Angeles / Beverty Hills           DESIGN CONSULTANT:         Parsons / Brinckerhoff			CONSTRUCTION MANAGEMENT CONSULTANT: WEST, a Joint Venture CONTRACTOR: Skanska, Traylor and Shea, a Joint Venture					
Wilshire	/La Brea Pile	<b>Installation</b>		WORK COMPLETED PAST MONTH				
			<ul> <li>C1045 Real estate acquisitions complete</li> <li>C1045 Wilshire/Fairfax 85% design review by Metro</li> <li>C1045 Wilshire/La Brea SOE design review by Metro</li> <li>C1045 Tunnel 100% design underway</li> <li>C1045 Systems/Trackwork 85% design underway</li> <li>C1045 Temp. TBM Power Substation continues</li> <li>C1045 Utility Relocation continues</li> <li>C1045 Wilshire/Fairfax final closeout completed</li> <li>C1045 Wilshire/La Brea pile delivery and installation underway</li> <li>C1045 Wilshire/La Brea geotechnical instrumentation installation underway</li> </ul>					
EXPENDITURE STATUS (\$ In Millions)				SCHEDULE ASSESSM	ent			
	CURRENT	EXPENDED	PERCENT	MAJOR SCHEDULE	PRIOR	CURRENT		
ACTIVITIES	BUDGET	AMOUNT	EXPENDED	ACTIVITIES	PLAN	PLAN	VARIANCE WEEKS	
DESIGN	\$157.7	\$105.6	67.0%	Environmental FEIS / FEIR	N/A	05/31/12	Complete	
JEURI	φ13 <i>1.1</i>	0.0010	01.0%		NVA	03/31/1Z	compete	
RIGHT-OF-WAY	\$175.6	\$122.6	69.8%	Design				
CONSTRUCTION	\$1,737.4	\$354.3	20.4%	PE Notice to Proceed	N/A	01/12/11	Complete	
				Final Design complete	03/22/17	03/22/17	0	
OTHER	\$1,078.7	\$92.2	8.5%	Right-of-Way				
TOTAL	\$3,149.4	\$674.7	21.4%	All parcels available	12/31/15	12/31/15	0	
Current Budget includes En	nvironmental/P	lanning and Fir	nance Costs.	Construction - Main De	esign / Build	Contract		
AREAS OF CONCERN				Notice to Proceed	01/12/15	01/12/15	Complete	
				Construction complete	11/08/23	11/08/23	0	
ROW ACQUISITION	PLAN	AVAILABLE	REMAINING	CRITICAL ACTIVITIES	/ 3 MONTH L	OOK AHEAD		
				- C1045 Wilshire/La Bre	a 100% perma	anent utility de	sign complete	
PERMANENT PARCELS	15	14	1	- C1045 Wilshire/La Bre	a 100% SOE	design comple	ete	
				- C1045 Systems/Trackwork 100% design complete				
TEMPORARY PARCELS	4	4	0	- C1045 Wilshire/La Brea Station North side pile installation completes			tallation completes	
				- C1045 Deck panels fat				
TOTAL PARCELS				- C1056 Wilshire/La Cier	-		work continuing	
IVIAL FARGELO	19	18	1	- C1045 Dewatering equi	-			
				- C1045 Wilshire/Fairfax				
				- C1045 Temporary tunn	ei ventilation o	iesign submitt	ais	

### **PROJECT OVERVIEW & STATUS**

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.

#### <u>Design</u>

The Engineering Management Services (EMS) team continues to provide design support to the Advanced Utility Relocation (AUR) contracts, the Design/Build Contract, and the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building 61S Contract.

For the Wilshire/Fairfax AUR Contract (C1055), the production of record drawings is continuing to reflect the as-built conditions.

For the Wilshire/La Cienega Station AUR Contract (C1056), support to Metro continues with traffic control requests for revised Worksite Traffic Control Plans for the contractor to comply with the Memorandum of Agreement (MOA) between Metro and the City of Beverly Hills; and also with the City of Los Angeles Department of Transportation where the traffic control plans extends beyond the City of Beverly Hills jurisdiction at San Vicente Boulevard. Technical documents are being produced in support of change notices. A fulltime field engineering representative continues to support construction activities.

For the Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building 61S Contract (C1078), support to Metro continues with responding to RFI's and submittals, design updates, and the 6<sup>th</sup> Street Bridge coordination. The first Design Advisory Working Group meeting was held on December 14, 2015 with the neighboring stakeholders. The next meeting is scheduled for January 28, 2016. Two alternative site plans are under review.

The team continues to attend design task force meetings with Metro and the C1045 Contractor for Tunnels, Stations, Trackwork, Systems and Systems Integration Testing in preparation for the design development and reviews. Support continues in the review of final design submittals, responding to RFI's, and assisting in preparation of change notices. *The design submittals under review are the Wilshire/La Brea Station Support of Excavation (SOE) 100% design and the 85% design for the Wilshire/Fairfax Station.* 

The C1045 Contractor, Skanska, Traylor and Shea (STS), and their final design team, Parson's Transportation Group (PTG), have identified the design work into six distinct design units. They are:

- 1. Design Unit 1 Wilshire/Western Interface Chamber (Shaft)
- 2. Design Unit 2 Wilshire/La Brea Station
- 3. Design Unit 3 Wilshire/Fairfax Station
- 4. Design Unit 4 Wilshire/La Cienega Station
- 5. Design Unit 5 Tunnels
- 6. Design Unit 6 Systems/Traffic/Trackwork

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). If required, critical design units can be advanced as Advanced Partial Design Units (APDU's) to support ongoing construction activities.

Design activities are well underway with the involvement of every discipline and design task force meetings are occurring weekly related to each design unit.

"Over-the-shoulder" design reviews are occurring with STS, PTG, Metro and the EMS team prior to each major design submittal and monthly Metro Fire/Life/Safety meetings are occurring.

Design Unit	Percentage	Submittal Date
DU# 1 - Western	100%	1/7/2016
DU# 2 - La Brea	100%	2/12/2016
DU# 3 - Fairfax	100%	4/4/2016
DU# 4 - La Cienega	85%	3/16/2016
DU# 5 - Tunnels	100%	2/15/2016
DU# 6 - Systems	85%	1/21/2016

The status of the design submittals are as follows:

STS is continuing with the required contractual submittals.

#### Major Contract Procurement

All contracts for the Project have been awarded.

#### **Construction**

The C1055 AUR contractor for the Wilshire/Fairfax Station obtained Contractual Milestone No. 3 (Substantial Completion) on October 7, 2015, 11 days ahead of schedule and within budget. *Contract closeout has been completed.* 

Follow-on work in the Wilshire/Fairfax Station area by third party utilities (AT&T and LADWP Power) is anticipated to be completed by summer 2016. This will complete all AUR work at this location and prior to the contractual access date for the C1045 Design/Build contractor to begin construction of the Wilshire/Fairfax Station.

The C1045 contractor began pile installation for the Wilshire/La Brea Station in mid-December 2015. The contractor is focusing his efforts on the north side of the station. However, due to delays caused by late delivery of equipment, mobilization and initial difficulty in their means and methods, a schedule recovery is underway to maintain their baseline schedule. Mitigations include extended work hours, re-sequencing work activities, and providing a third pile drilling rig and additional crews.

The remaining section of the soundwall at the south Wilshire/La Brea construction staging area is planned to be complete by the end of January 2016. In the same area, Metro is planning to complete the construction of the new tar sump facility by mid-February 2016. The C1045 contractor will then proceed to demolish the existing tar sump.

Demolition of buildings and site preparation work will resume at the Wilshire/Fairfax area next month. The contractor is planning to mobilize at the Wilshire/Western site in February 2016 to begin building demolition and site preparation work.

The contractor is continuing with the construction of the TBM power substation.

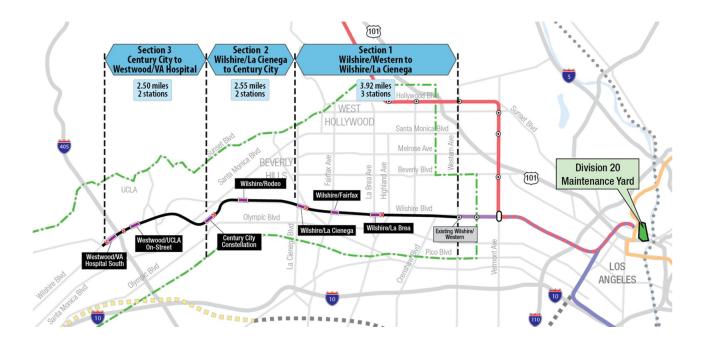
Metro staff continues to meet with the City of Beverly Hills to finalize the terms and conditions of the Memorandum of Agreement (MOA) required for Contract C1045. The City of Beverly Hills staff is planning to present the complete MOA to the Beverly Hills City Council for discussion in February 2016.

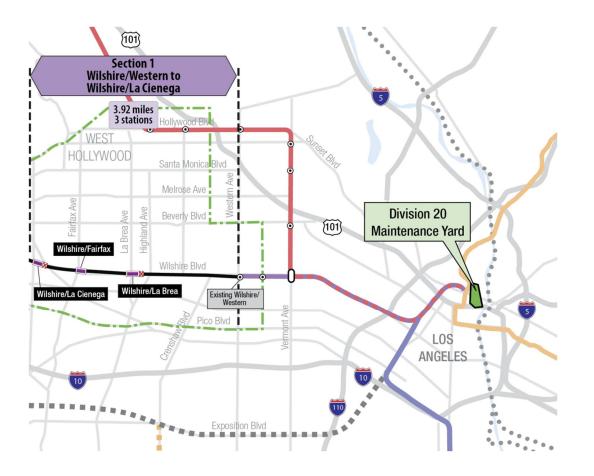
Metro has possession of all parcels to meet the C1045 contract site availability dates. Property abatement and remediation work is continuing prior to providing site access to the contractor.

### MANAGEMENT ISSUES

No Management Issues this period.

### **PROJECT ALIGNMENT by SECTIONS**





### **PROJECT ALIGNMENT SECTION 1**

### **BASE PROJECT SCOPE**

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

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

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

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

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

#### Contract C1034 – Wilshire/Fairfax Exploratory Shaft

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

#### Contract C1048 – Wilshire/La Brea Advanced Utility Relocations

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

completed on October 27, 2014.

#### Contract C1055 – Wilshire/Fairfax Advanced Utility Relocations

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

#### Contract C1056 – Wilshire/La Cienega Advanced Utility Relocations

Relocate existing City of Beverly Hills water, storm drain and sewer utilities within the construction limits of the Wilshire/La Cienega Station. The contractor is responsible for working in streets, procure materials, and coordinate with the utility owner. The contractor is to construct the new facilities in accordance with utility plans and specifications, provide traffic control, restore streets, and support utility crews during cut-over of the existing utilities.

#### <u>Contract C1045 – Tunnels, Stations, Trackwork, Systems and Systems Integration</u> <u>Testing</u>

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

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

<u>Contract C1078 – Division 20 Maintenance-of-Way and Non-Revenue Vehicle Building 61S</u> The Design/Build contract provides for final design and construction of a new Maintenance-Of-Way (MOW) stores and Non-Revenue Vehicle (NRV) building at the south end of the existing Division 20 Yard (Location 61S). The displacement of the existing MOW stores building and NRV facility are due to the proposed turn-back facility site in the yard.

### **BASE PROJECT SCOPE (Continued)**

#### Metro Furnished Equipment

Metro will procure separate contracts to provide the 34 Heavy Rail Vehicles (HRV) and the Universal Fare System (UFS) necessary to operate the extension to the Purple Line. The scope of the HRV contract includes design, manufacturing, testing and delivery of the vehicles. The scope of the UFS contract includes design, fabrication and installation of equipment at the three 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 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.

### **KEY MILESTONES SIX-MONTH LOOK AHEAD**

	Milestone Date	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16
C1045 Wilshire/La Brea Geotecnical Instrumentation Begins	01/04/16						
C1078 Baseline Schedule Submittal	01/11/16						
C1045 TBM Temporary Power Work Complete	02/10/16						
C1045 Wilshire/Western Shaft Design Complete	02/22/16						
C1045 Wilshire/La Brea Soundwalls Complete, Including Tar Sump Relocation	02/28/16						
C1045 Building Demolition Wilshire/Fairfax Complete	03/10/16						
C1045 Wilshire/La Brea North Pile Insallaiton Complete	03/15/16						
C1045 Wilshire/La Brea Station Design Complete	03/23/16						
C1045 South Side Pile Installation Begins	03/29/16						
C1045 Dewatering Equipment Installaiton Begins	04/15/16						
C1045 Jet Grouting at Wilshire/La Brea	05/01/16						
C1045 Muck Shaft Excavation Begins	05/01/16						
C1045 Initial Excavation and Decking Installation at Wilshire/La Brea	05/15/16						
C1045 Fairfax SOE Design Complete	06/28/16						
MTA Staff     MTA Board Action FTA							
△ Other Agencies □ Contractors							

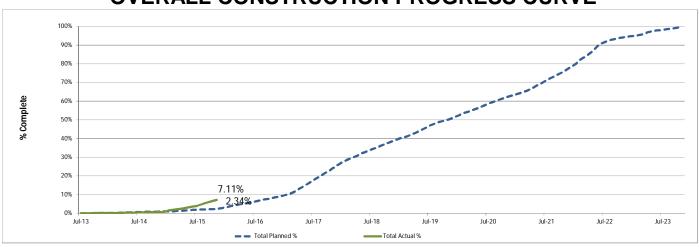
#### C Primavera Systems, Inc. ٠ MASTER SCHEDULE JANUARY 2016 Data Date: 01-Jan-16 . Data Date: 01-Jan-16 Current Date: 21-Jan-16 12:05 1 of 1 2019 Purple Line Level 1 Management Schedule Los Angeles County Metropolitan Transportation Authority • Purple Line Level 1 Management Schedule ٠ 26-Apr-12 A 09-Aug-12 A 31-0ct-12 A 08-Nov-23 28-Oct-10 A 23-Mar-12 A 12-Deo-17 24-Jan-13 A 08-Aug-23 23-Sep-21 08-Aug-23 03-Mar-23 30-Oct-14 A 21-May-14 A 04-Jan-11 A 27-Jun-11 A 04-Jan-20 15-Feb-22 09-Jun-23\* 06-Nov-23\* 31-Maj-12 A 22-Jan-09 A 31-May-12 A 12-Deo-17 14-Nov-16 22-Jan-25 01-Aug-22 22-Jan-25 31-Mar-17 31-Mar-17 02-Feb-17 03-Mar-23 12-Deo-17 03-Mar-23 03-Mar-23 07-Deo-21 06-Oct-22 29-Apr-20 23-Deo-22 24-Feb-23 19-Feb-19 08-Nov-23 08-Nov-23 08-Sep-23 08-Nov-23 22-Jan-25 26-Aug-24 22-Jan-25 26-Aug-24 01-Oct-21 23-Mar-22 28-Apr-22 22-Jan-25 21-May-14 A 12-Jan-15 A 01-Nov-10 A 23-Jan-14 A 07-Nov-15 A 05-Jan-18 17-Deo-19 09-Aug-10 A 09-Aug-10 A 04-Sep-12 A 28-May-13 A 28-May-13 A 15-Feb-19 15-Jan-13 A 12-Jan-15 A 04-Nov-14 A 04-Nov-14 A 12-Jan-15 A 25-0d-17 07-Nov-15 A 29-May-15 A 02-Aug-10 A 02-Aug-10 A 02-JU-12 A 17-Deo-19 28-0d-22 28-0d-22 28-0d-22 08-Nov-23 01-Jun-07 A 13-Feb-09 A 21-Feb-12 A 04-Sep-12 A 15-Jan-13 A 20-May-13 A 04-Nov-14 A 03-May-19 15-Feb-22 26-Nov-19 09-Sep-23 08-Nov-23 08-Nov-23 21-May-14 A 01-Jun-07 A 19-Nov-21 11-hn-07 28-0d-1 198 8 221 2291 1664 3 316 125 512 268 8 138 260 216 216 216 200 200 200 200 200 200 0 0 489 669 93 2317 24 109 109 813 1672 8 8 Dur. 88 313 Westside Purple Line Extension Project W/W to La Cienega Schedule Substantial Completion Section 1 (NTP + 3070 CD 05/09/23) Submit Administrative Draft Final EIS/EIR to FTA for Review Iside Purple Line Extension Project WIW to La Cieneg Receive FTA Approval to Circulate FEIS/FEIR (NOA) FTA Approval to Enter Into Preliminary Engineering MTA Board Approve FEIS/FEIR and Adopt Project Commence Station Shoring and Decking - Section Design / Build and Construction C1034 Contract: Exploratory Shaft in the Vicinity of Fairtax Station ♦ ♦ Milestone Summary Board Selects Locally Preferred Alternative Section 1 Available for Systems Inlegration NTP - Design / Build - Section 1 - C1045 FTA Approval to Enter Into Final Design Commence Tunneling - Section 1 C1045 Interface Date with Div 20 Complete Tunneling - Section 1 C1045 Contract: Principle Design / Build Contract C-1045 Contract Closeout FTA Record of Decision Revenue Services Obtain FTA FFGA Critical Remaining Work Finance Charges Project Closeout DIV. 20 MOW and NRV Building 61S Actual Work Remaining Work Critical Remaining V Start-up Project Planning & Develo Initial Planning Advanced Utilities Relocation Owner Furnished Equipm Heavy Rail Vehicles Ticket Vending Machines Support Facilities and Yards Environmental Document Pre-Revenue Operations FTA Process / Approvals Prelminary Engineering Right-of-Way (ROW) Property Acquisitions General Requirements Guideway and Track Contract Procurement Early Construction Contract Closeout ect close-out Support Facilities Special Conditions Stations / Shaft Stress Testing WS-MS1030 WS-MS1060 WS-MS1070 WS-MS1120 WS-MS1130 Final Design Engineering Construction WS-MS1000 WS-MS1040 WS-MS1090 WS-MS1100 WS-MS1150 WS-MS1110 WS-MS1140 Engineering WS-SC1070 WS-MS1010 WS-MS1020 WS-MS1050 WS-MS1080 Systems Start-Up start-Up WS-1050 WS-1060 WS-1100 Testing

### **PROJECT SUMMARY SCHEDULE**

### SCHEDULE MEASUREMENTS

	Status	Change from Last Period	Comment
Forecast Revenue Service	11/8/2023	None	
FFGA Revenue Service	10/31/2024	None	
Final Design Progress:			
Contract C1045	66.66%	5.79%	
Contract C1078	5.70%	4.18%	
Construction Contracts Progre	SS*:		
Contract C1048	100.00%	0.00%	Completed on Schedule
Contract C1045	4.87%	0.47%	Schedule Recovery is Underway
Contract C1055	100.00%	13.13%	Completed on Schedule
Contract C1056	48.49%	10.03%	On Schedule
Contract C1078	0.44%	0.32%	Awaiting Baseline Schedule to be Approved

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



### **OVERALL CONSTRUCTION PROGRESS CURVE**

The actual overall construction progress is 7.11% versus a planned of 2.34% through December 2015. The progress curves represent a composite percentage for the physical progress of work performed to complete the Project's construction contracts, including the major Design-Build (C1045), the three Advanced Utility Relocations (C1048, C1055 & C1056), and the Division 20 MOW & NRV Building 61S (C1078). Currently Contract C1078 is not included with the overall progress calculation. Once the contract baseline schedule is approved, the curve will be updated to include Contract C1078 progress.

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.

	Initial Procurement	Submittal	Delivery	Installation
Tunnel Boring Machine	1/30/16	5/30/16	5/24/17	7/23/17
Deliver to Site - Station HVAC System	2/16/18	4/1/19	5/7/19	11/6/20
Deliver to Site - Ventilation Fans	2/16/18	4/1/19	5/7/19	11/6/20
Deliver to Site - Elevators	3/9/18	5/8/18	4/17/19	1/14/21
Deliver to Site - Elevators	5/7/18	7/6/18	8/15/19	6/14/21
Heavy Rail Vehicles	7/16/15	3/1/19	8/1/21	1/1/22
Ticket Vending Machines	2/15/19	10/8/21	9/8/21	9/8/22

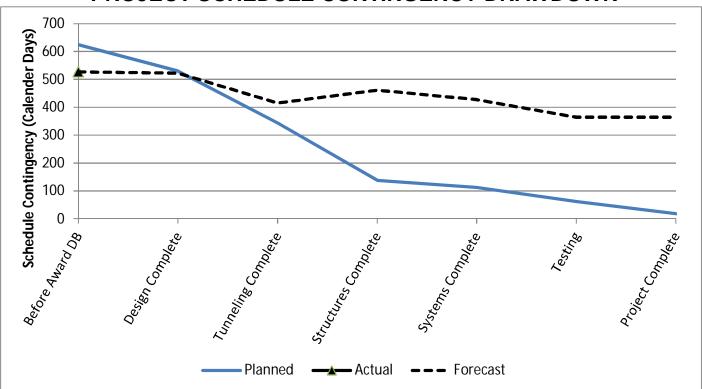
### MAJOR EQUIPMENT DELIVERY

## DESIGN BUILDER'S (C1045) LONG LEAD ITEM LIST

ltem	Initial Procurement	Approved Submittal	Delivery	Installation Date
Procure / Deliver Fiber Optic Cable	28-Jul-15	25-Dec-15	24-Mar-16	7-Mar-19
Procure / Deliver Innerduct	28-Jul-15	25-Dec-15	24-Mar-16	7-Mar-19
Procure / Deliver Radio Cable	16-Aug-15	13-Jan-16	12-Apr-16	7-Mar-19
SCADA: Procure / Deliver Devices	22-Sep-15	19-Feb-16	19-May-16	7-Mar-19
Procure / Deliver SCADA Cable	22-Sep-15	19-Feb-16	19-May-16	3-May-19
Procure / Deliver TPS Bonding Cable	27-Jul-16 27-Jul-16	24-Dec-16 24-Dec-16	24-Mar-17 24-Mar-17	3-May-19
Procure / Deliver Traction Power Cable TPS: Procure/Deliver BLS Equipment & Devices	27-Jul-16 27-Jul-16	24-Dec-16 24-Dec-16	24-Mar-17 24-Mar-17	3-May-19 3-May-19
Mfgr/Assemble/Wire DC Rectifier/Transformer - La Cienega TPSS	26-Oct-16	25-Mar-17	23-Jun-17	3-May-19
Mfgr/Assemble/Wire HV Metering Switchgear - La Cienega TPSS	26-Oct-16	25-Mar-17	23-Jun-17	3-May-19
Mfgr/Assemble/Wire DC Switches - Fairfax GBS	26-Oct-16	25-Mar-17	23-Jun-17	3-May-19
Mfgr/Assemble/Wire HV Metering Switchgear - Fairfax GBS	19-Feb-17	19-Jul-17	17-Oct-17	3-May-19
Mfgr/Assemble/Wire DC Rectifier/Transformer - La Brea TPSS	19-Feb-17	19-Jul-17	17-Oct-17	3-May-19
Mfgr/Assemble/Wire HV Metering Switchgear - La Brea TPSS	17-Jun-17	14-Nov-17	12-Feb-18	3-May-19
CCTV: Assemble/Rack & Stack/Factory Test COM Equipment for Western	31-Jan-16	29-Jun-16	27-Sep-16	3-May-19
CCTV: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	4-Jun-16	1-Nov-16	30-Jan-17	28-Dec-20
CCTV: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	2-Oct-16	1-Mar-17	30-May-17	14-Sep-20
CCTV: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	31-Jan-17	30-Jun-17	28-Sep-17	10-Nov-20
CTS: Assemble/Rack & Stack/Factory Test COM Equipment for Western	17-Nov-15	15-Apr-16	14-Jul-16	3-May-19
CTS: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	16-Mar-16	13-Aug-16	11-Nov-16	28-Dec-20
CTS: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	19-Jul-16	16-Dec-16	16-Mar-17	14-Sep-20
CTS: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	19-Nov-16	18-Apr-17	17-Jul-17	10-Nov-20
EMER MGMT: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	26-Dec-15	24-May-16	22-Aug-16	28-Dec-20
EMER MGMT: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	26-Apr-16	23-Sep-16	22-Dec-16	14-Sep-20
EMER MGMT: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	27-Aug-16	24-Jan-17	24-Apr-17	10-Nov-20
FIRE ALARM: Assemble/Rack & Stack/Factory Test COM Equipment for Western	17-Nov-15	15-Apr-16	14-Jul-16	7-Mar-19
FIRE ALARM: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	16-Mar-16	13-Aug-16	11-Nov-16	28-Dec-20 14-Sep-20
FIRE ALARM: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax FIRE ALARM: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	19-Jul-16 19-Nov-16	16-Dec-16 18-Apr-17	16-Mar-17 17-Jul-17	14-Sep-20 10-Nov-20
GAS DETECTION: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	19-NOV-16 28-Nov-15	18-Apr-17 26-Apr-16	25-Jul-17	10-Nov-20 7-Mar-19
GAS DETECTION: Assemble/Rack & Stack/Factory Test COM Equipment for Western GAS DETECTION: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	28-INOV-15 27-Mar-16	26-Apr-16 24-Aug-16	25-Jul-16 22-Nov-16	28-Dec-20
GAS DETECTION: Assemble/Rack & Stack/Factory Test COM Equipment for Earling	30-Jul-16	27-Dec-16	27-Mar-17	14-Sep-20
GAS DETECTION: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	28-Nov-16	27-Dec-10 27-Apr-17	26-Jul-17	14-3ep-20
INTRUSION: Assemble/Rack & Stack/Factory Test COM Equipment for Western	28-Nov-15	26-Apr-16	25-Jul-16	7-Mar-19
INTRUSION: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	27-Mar-16	24-Aug-16	22-Nov-16	28-Dec-20
INTRUSION: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	30-Jul-16	27-Dec-16	27-Mar-17	14-Sep-20
INTRUSION: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	28-Nov-16	27-Apr-17	26-Jul-17	10-Nov-20
RADIO: Assemble/Rack & Stack/Factory Test COM Equipment for Western	7-Dec-15	5-May-16	3-Aug-16	7-Mar-19
RADIO: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	9-Apr-16	6-Sep-16	5-Dec-16	28-Dec-20
RADIO: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	8-Aug-16	5-Jan-17	5-Apr-17	14-Sep-20
RADIO: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	7-Dec-16	6-May-17	4-Aug-17	10-Nov-20
SCADA: Assemble/Rack & Stack/Factory Test COM Equipment for Western	17-Nov-15	15-Apr-16	14-Jul-16	7-Mar-19
SCADA: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	16-Mar-16	13-Aug-16	11-Nov-16	28-Dec-20
SCADA: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	19-Jul-16	16-Dec-16	16-Mar-17	14-Sep-20
SCADA: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	19-Nov-16	18-Apr-17	17-Jul-17	10-Nov-20
SEISMIC: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	28-Nov-15	26-Apr-16	25-Jul-16	28-Dec-20
SEISMIC: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	27-Mar-16	24-Aug-16	22-Nov-16	14-Sep-20
SEISMIC: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	30-Jul-16	27-Dec-16	27-Mar-17	10-Nov-20
TELEPHONE: Assemble/Rack & Stack/Factory Test COM Equipment for Western	28-Nov-15	26-Apr-16	25-Jul-16	13-May-21
TELEPHONE: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	27-Mar-16	24-Aug-16	22-Nov-16	28-Dec-20
TELEPHONE: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	30-Jul-16	27-Dec-16 27-Apr-17	27-Mar-17	14-Sep-20
TELEPHONE: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega TPIS: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea	28-Nov-16 31-Jan-16	27-Apr-17 29-Jun-16	26-Jul-17 27-Sep-16	10-Nov-20 28-Dec-20
TPIS: Assemble/Rack & Stack/Factory Test COM Equipment for La Brea TPIS: Assemble/Rack & Stack/Factory Test COM Equipment for Fairfax	4-Jun-16	29-Jun-16 1-Nov-16	30-Jan-17	14-Sep-20
TPIS: Assemble/Rack & Stack/Factory Test COM Equipment for La Cienega	2-Oct-16	1-Nov-16 1-Mar-17	30-May-17	10-Nov-20
UPS: Manufacture/Factory Test COM Equipment for La Brea	22-Dec-15	20-May-16	18-Aug-16	28-Dec-20
UPS: Manufacture/Factory Test COM Equipment for Fairfax	24-Apr-16	21-Sep-16	20-Dec-16	14-Sep-20
UPS: Manufacture/Factory Test COM Equipment for La Cienega	23-Aug-16	20-Jan-17	20-Apr-17	10-Nov-20
PROCURE GAS/WATERPROOFING MATERIALS FOR LA BREA STATION	1-Mar-16	29-Jul-16	27-Oct-16	13-May-21
FABRICATE CANOPY STRUCTURE - FAIRFAX STATION	29-May-16	26-Oct-16	24-Jan-17	18-Jan-22
FABRICATE CANOPY STRUCTURE - LA CIENEGA STATION	27-Aug-16	24-Jan-17	24-Apr-17	14-Feb-22
Mfgr/Assemble/Wire DC Switchgear - La Cienega TPSS	10-Dec-16	9-May-17	7-Aug-17	16-Sep-16
Mfgr/Assemble/Wire AC Switchgear - La Cienega TPSS	10-Dec-16	9-May-17	7-Aug-17	4-Feb-17
Mfgr/Assemble/Wire DC Switchgear - La Brea TPSS	20-May-17	17-Oct-17	15-Jan-18	16-Nov-15
Mfgr/Assemble/Wire AC Switchgear - Fairfax GBS	20-May-17	17-Oct-17	15-Jan-18	26-Mar-16
Mfgr/Assemble/Wire AC Switchgear - La Brea TPSS	22-Oct-17	21-Mar-18	19-Jun-18	31-Jan-17
ATC: Procure/Deliver Switch Machines	20-Sep-15	17-Feb-16	17-May-16	24-Jun-17
COMPLETE MOCK-UP, FABRICATE CANOPY STRUCTURE - LA BREA STATION	29-Feb-16	28-Jul-16	26-Oct-16	3-Mar-22
FAB/DELIVER SOLDIER PILES / BEAMS - TBM RETRIEVAL SHAFT	20-Nov-15	18-Apr-16	17-Jul-16	26-Apr-16
FAB/DELIVER SOLDIER PILES / BEAMS - FAIRFAX STATION	1-Jan-16	30-May-16	28-Aug-16	31-Aug-16
FAB/DELIVER SOLDIER PILES / BEAMS - LA CIENEGA STATION	2-Apr-16	30-Aug-16	28-Nov-16	2-Feb-17
ATC: Assemble/Rack & Stack TC&C Equipment for Western	19-Dec-16	18-May-17	16-Aug-17	13-May-21
ATC: Assemble/Rack & Stack ATC Equipment for La Brea	19-Dec-16	18-May-17	16-Aug-17	28-Dec-20
ATC: Assemble/Rack & Stack ATC Equipment for Fairfax	7-Mar-17	4-Aug-17	2-Nov-17	14-Sep-20
ATC: Assemble/Rack & Stack ATC Equipment for La Cienega FABRICATE TRACK MATERIALS	26-Jul-17 7-Dec-18	23-Dec-17 6-May-19	23-Mar-18 4-Aug-19	10-Nov-20 8-Jul-20
ATC: Procure/Deliver WS Equipment & Devices	31-Jan-16	29-Jun-16	27-Sep-16	13-May-21
ATC: Procure/Deliver WS Equipment & Devices ATC: Procure/Deliver Components & Materials - Western	4-Jun-16	1-Nov-16	30-Jan-17	13-May-21 13-May-21
ATC: Procure/Deliver Components & Materials - Vestern ATC: Procure/Deliver Components & Materials - La Brea	4-Jun-16	1-Nov-16	30-Jan-17	28-Dec-20
		11107-10	00 0411-17	20 000-20
ATC: Procure/Deliver Components & Materials - Fairfax	4-Jun-16	1-Nov-16	30-Jan-17	14-Sep-20

### **CRITICAL PATH NARRATIVE**

The critical path for the Westside Purple Line Extension Project begins with the procurement process for the C1045 Design/Build contract, mobilization of the design team for the selected contractor, and the start of final design for station boxes and tunnels. Final design is concurrent with the C1055 Wilshire/Fairfax Advanced Utility Relocation and C1056 Wilshire/ La Cienega Advanced Utility Relocation contracts being performed by Metro's AUR Contractors and by third party utility companies. Upon completion of advanced utility relocations, the Design/Build contractor begins installation of soldier piles, first on the north side of the Wilshire/La Brea Station box, and then on the south side. Street decking is then installed, the station structural box is excavated, and invert concrete is placed. Tunneling then begins, first driving eastbound from Wilshire/La Brea to Wilshire/Western. TBMs are removed though a retrieval shaft at Wilshire/Western, reassembled at Wilshire/La Brea, and then driven westbound to Wilshire/La Cienega. Following construction of cross passages, the critical path continues through construction power, 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 a November 8, 2023 Revenue Service Date (RSD).

SCC CODE DESCRIPTION		ORIGINAL BUDGET	-		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		CURRENT BUDGET/ FORECAST	
CODE		DODGET	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE	
10	GUIDEWAY & TRACK ELEMENTS	388,294	-	388,294	-	380,970	-	1,820	-	388,294	-	
20	STATIONS, STOPS, TERMINALS, INTERMODAL	440,621	-	440,621	-	435,105	-	-	-	440,621	-	
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	43,323	-	43,323	-	34,198	-	-	-	39,327	(3,996)	
40	SITEWORK & SPECIAL CONDITIONS	751,566	-	751,566	1,135	755,938	22,498	346,318	12,060	774,363	22,797	
50	SYSTEMS	113,574	-	113,574	-	97,662	1,684	6,128	-	113,574	-	
	CONSTRUCTION SUBTOTAL (10-50)	1,737,378	-	1,737,378	1,135	1,703,873	24,182	354,265	12,060	1,756,179	18,801	
60	ROW, LAND, EXISTING IMPROVEMENTS	175,634	-	175,634	-	175,634	1,114	122,581	-	175,634	-	
70	VEHICLES	160,196	-	160,196	-	-	-	-	-	145,493	(14,703)	
80	PROFESSIONAL SERVICES	412,710	-	412,710	22,455	236,403	6,111	158,500	-	415,575	2,865	
	SUBTOTAL (10-80)	2,485,918	-	2,485,918	23,590	2,115,910	31,407	635,347	12,060	2,492,881	6,963	
90	UNALLOCATED CONTINGENCY	248,592	-	248,592	-	-	-	-	(12,060)	286,034	37,442	
100	FINANCE CHARGES	375,470	-	375,470	-	-	-	-	-	331,065	(44,405)	
	TOTAL PROJECTS 465518 & 865518 (10-100)	3,109,980	-	3,109,980	23,590	2,115,910	31,407	635,347	-	3,109,980	-	
	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	-	3,149,350	23,590	2,155,279	31,407	674,704	-	3,149,350	-	

### **PROJECT COST STATUS**

### **PROJECT COST ANALYSIS**

#### **Original Budget and Current Budget**

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

#### **Current Forecast**

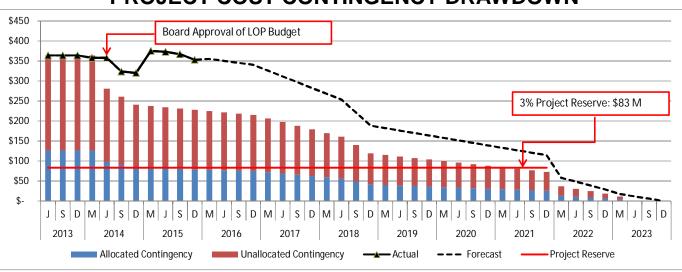
The Current Forecast remains the same this period at \$3.1 billion. However, the Sitework & Special Conditions category was increased by \$12.1 million due to ongoing work by the private utility companies. The \$12.1 million was transferred from the Unallocated Contingency.

#### Commitments

The Commitments increased by \$23.6 million primarily due to executed modification for continuation of design support services during construction by Parsons Brinkerhoff Inc., Metro Project Administration, Master Cooperative Agreement with the City of Los Angeles, private utility companies, Legal and Environmental Services. The \$2.2 billion in Commitments to date represents 68.4% of the Current Budget.

#### Expenditures

The Expenditures are cumulative through November 2015. The Expenditures increased by \$31.4 million this period primarily for costs associated with the Design/Build Contract C1045, Advanced Utility Relocations, Environmental Services, Real Estate Acquisitions, Legal Services, Engineering Management Services, and Metro Project Administration. The \$674.7 million in Expenditures to date represents 21.4% of the Current Budget.



### **PROJECT COST CONTINGENCY DRAWDOWN**

### PROJECT COST CONTINGENCY DRAWDOWN ANALYSIS

The Current Budget of \$3.1 billion (plus Finance Charges of \$0.4 billion) includes a project cost contingency of \$320.6 million or 10.2% of the total project. The project cost contingency of \$320.6 million is based upon the Life of Project (LOP) Budget that was approved by the Board in July 2014. The LOP Budget also included an allocated contingency amount of \$72.0 million. The allocated contingency is an amount to cover anticipated but unknown contract modifications issued by Metro where applicable to specific contracts within each Standard Cost Category (SCC).

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

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

The unallocated contingency was decreased this period by \$12.1 million due to ongoing work by the private utility companies. This is reflective of the Current Forecast-At-Completion. The allocated contingency was decreased by \$2.2 million due to the final closeout value of the Wilshire/Fairfax AUR Contract C1055.

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS						
	Original Contingency (Budget)	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)	
Unallocated Contingency	248,592	49,502	(12,060)	37,442	286,034	
Allocated Contingency	71,963	(3,043)	(2,217)	(5,261)	66,703	
Total Contingency	320,555	46,459	(14,277)	32,182	352,737	

### DISADVANTAGED BUSINESS ENTERPRISE (DBE)

#### RACE-CONSCIOUS DISADVANTAGED BUSINESS ENTERPRISE (RC-DBE) STATUS

Contract C1045 Westside Purple Line Extension, Section 1 Design-Build

RC-DBE Goal – Design 20%

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- Current RC-DBE Commitment \$12,853,485 (20.25%)
- Current RC-DBE Participation \$4,823,219 (12.50%)
- Eleven (11) Design DBE subcontractors have been identified for Design

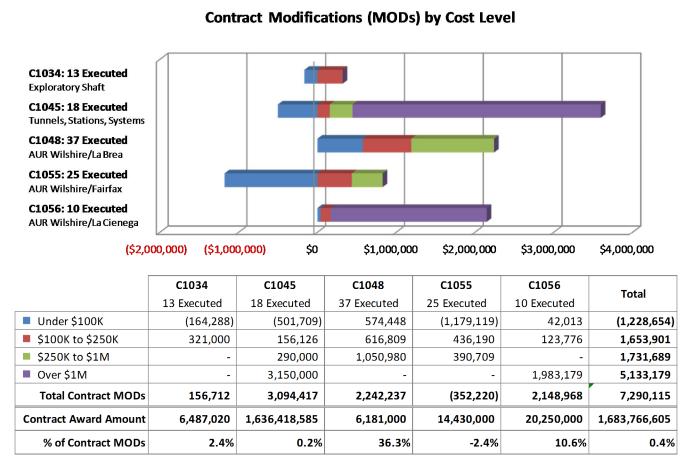
•	DBE Goal – Construction	17%
•	Current DBE Commitment	\$258,241,829 (17%)
•	Current DBE Participation	\$2,828,062 (0.98%)

#### Twenty (25) Construction DBE subcontractors have been identified to-date

### **PROJECT LABOR AGREEMENTS (PLA) STATUS**

Contract C1045 Westside Purple Line Extension, Section 1 Design-Build (Reporting Data as of December 25, 2015)						
Targeted Worker Goal	40.00%					
Targeted Worker Current Participation	72.76%					
Apprentice Worker Goal	20.00%					
Apprentice Worker Current Participation	15.47%					
Disadvantaged Worker Goal	10.00%					
Disadvantaged Worker Current Participation	5.66%					

### SUMMARY OF CONTRACT MODIFICATIONS



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).

Eighteen Contract MODs with a total value of \$3.1 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.

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.

Ten Contract MODs with a total value of \$2.1 million have been executed since the award of Contract C1056 – Advanced Utility Relocations at Wilshire/La Cienega by Steve Bubalo Construction Co.

### **FINANCIAL/GRANT STATUS**

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) (D/B) COMMITMENTS		(E) (E/B) EXPENDITURES		(F) (F/B) BILLED TO FUNDIN SOURCE	
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - SECTION 5309 NEW STARTS	\$1,250.000	\$1,250.000	\$165.000	\$1,250.000	100%	\$165.000	13%	\$165.000	13%
FEDERAL CMAQ	\$12.171	\$12.171	\$12.171	\$12.171	100%	\$12.171	100%	\$4.786	39%
FEDERAL SECTION 5309 - ALTERNATIVES ANALYSIS	\$0.512	\$0.512	\$0.512	\$0.512	100%	\$0.512	100%	\$0.512	100%
MEASURE R - TIFIA LOAN	\$856.000	\$856.000	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
MEASURE R 35%	\$869.178	\$869.178	\$481.414	\$806.380	93%	\$410.805	47%	\$258.260	30%
STATE STIP RIP	\$2.568	\$2.568	\$2.568	\$2.568	100%	\$2.568	100%	\$2.568	100%
STATE CAPITAL PROJECT LOANS - OTHERS *	\$83.648	\$83.648	\$83.648	\$83.648	100%	\$83.648	100%	\$50.898	61%
CITY OF LOS ANGELES	\$75.273	\$75.273	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$3,149.350	\$3,149.350	\$745.313	\$2,155.279	68.4%	\$674.704	21.4%	\$482.024	15.3%

EXPENDITURES ARE CUMULATIVE THROUGH NOVEMBER 2015

ORIGINAL BUDGET BASED ON JULY 2014 BOARD APPROVED LOP BUDGET

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

### STATUS OF FUNDS ANTICIPATED

**FEDERAL SECTION 5309 NEW STARTS:** FTA grant CA-03-0824 for \$65 million was awarded on June 2, 2014. FTA Grant CA-03-0824-01 for \$100 million was awarded on August 10, 2015. Funds are available for drawdown.

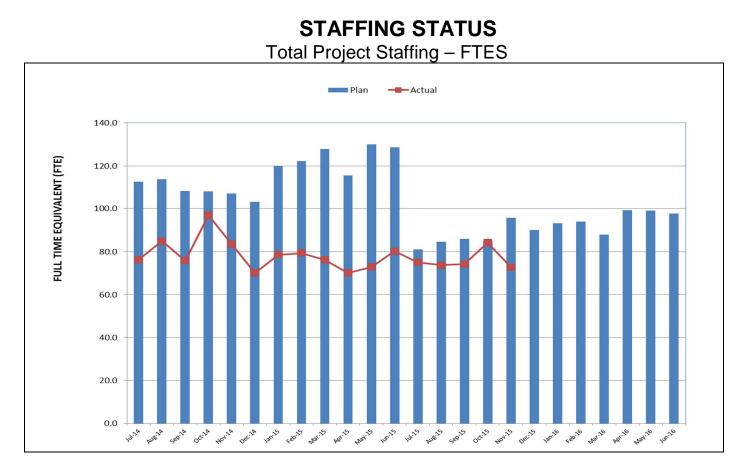
**FEDERAL SECTION 5309 ALTERNATIVE ANALYSIS:** FTA grant CA-39-0006 of \$0.5 million was awarded on July 25, 2014. Funds are available for drawdown.

**MEASURE R – TIFIA LOAN (Transportation Infrastructure Finance & Innovation Act):** TIFIA Loan was executed on May 21, 2014 for \$856 million. First disbursement is planned for FY 2018.

**MEASURE R 35%:** \$481.4 million have been allocated to the Project through FY16. Funds are available for drawdown.

**STATE STIP RIP:** State grant application of \$8.4 million, of which \$2.6 million has been allocated to this project, was awarded on July 26, 2007. Funds are available for drawdown.

**CMAQ (Congestion Mitigation & Air Quality):** FTA Grant CA-95-X264 for \$12.2 million was awarded July 27, 2015. Funds are available for drawdown.

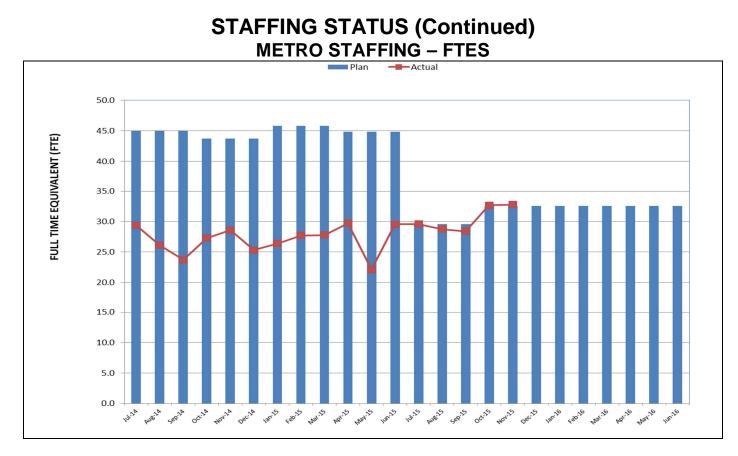


### TOTAL PROJECT STAFFING

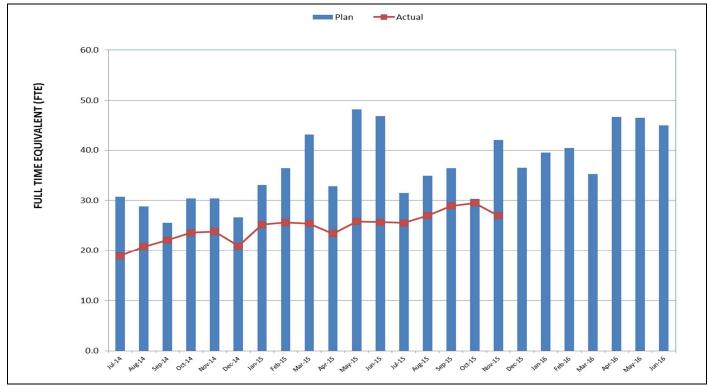
The overall FY16 Total Project Staffing Plan averages 91.1 FTEs per month.

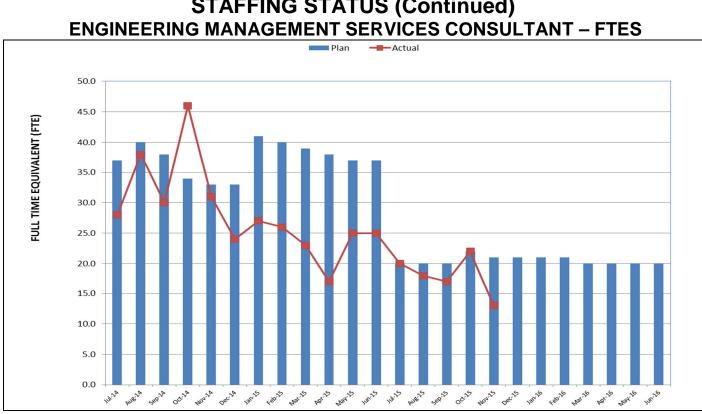
For November 2015, there were a total of 32.8 FTEs for MTA's Project Administration Staff and 40.0 FTEs for Consulting Staff. The total project staffing for November 2015 was 72.8 FTEs.

Metro has re-visited the staffing requirements for Fiscal Year 2016 and has provided an update based upon the current project schedule and project needs. The Construction Management Support Services Consultant (CMSSC) staffing level plan may change in the upcoming months to reflect the actual position conversions of CMSSC staff to Metro staff per the July 2015 Metro Board action and the Board action to be taken in January 2016 to extend CMSSC services to June 2017.



#### CONSTRUCTION MANAGEMENT SUPPORT SERVICES CONSULTANT – FTES





### **REAL ESTATE STATUS**

Purple Line Extension Section 1 - Real Estate Status Summary										
Description	Number of Parcels	Certified	Appraisals Completed	Offers Made	Agreements	Condemnation	Relocations		Parcels	
Description					Signed	Filed	Required	Completed	Available	
Full Takes	9	9	9	9	2	7	109	109	9	
Part Takes	6	6	6	5	1	3	0	0	5	
TCE	4	4	4	4	1	4	0	0	4	
Total Parcels	19	19	19	18	4	14	109	109	18	

The total count of the 19 parcels include the two Division 20 parcels required for constructing the MOW/NRV Building 61S.

Metro has possession of all parcels to meet the C1045 Contract site availability dates.

### QUALITY ASSURANCE STATUS

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

- Attended weekly Project staff meetings and progress meetings with the Contractor.
- Ongoing discussions and coordination with the Engineering Management Services Consultant (EMSC) and Construction Management Support Services Consultant (CMSSC) support staff for quality oversight.
- Conducted quality surveillance (S2015-018A) SOE pile traceability to mill certification.
- Monitored Contractor's (STS) quality process during field modifications due to adverse conditions during installation of SOE piles.
- Reviewed and provided comments on quality related submittals.
- Tunnels 85% Design Submittal held comment resolution meeting.
- Wilshire/Western Design Unit 1 100% Design QC started.
- Wilshire/La Brea 100% SOE City of Los Angeles Bureau of Engineering (BOE) comments received.

#### C1055 – Advanced Utility Relocations – Wilshire/Fairfax

- Attended Contract Closeout Meetings.
- Received Testing Agency Compliance Statements for field and lab testing of construction materials.

#### C1056 – Advanced Utility Relocations – Wilshire/La Cienega

- Attended weekly progress meeting with the Contractor.
- Reviewed and provided comments on quality related submittals.
- Attended Readiness Review Meetings.
- Reviewed daily inspection reports from the Contractor/Field Technician and CMSC oversight inspection personnel.
- Conducted quality surveillance (S2015-019) of the as-built development for utilities installation.
- Reviewed Monthly Quality Report for submittal to City of Beverly Hills.

#### C1078 – Division 20 MOW and NRV Building 61S

- Attended weekly Project Staff Meetings and Progress Meetings with the Contractor.
- Reviewed and provided comments on quality related submittals.
- Reviewed and approved Design and Quality Management personnel.

### **ENVIRONMENTAL STATUS**

- Limited noise and vibration monitoring performed by AUR and DB Contractors. No significant noise or vibration exceedances were reported for work performed.
- Conducted Environmental Awareness Training for Construction Noise, Stormwater BMP, Archeo/Paleo, C1056, C1045 and Third Party Contractors.
- Reviewed C1056 and C1045 Contractor submittals and tracked monitoring and reporting obligations in accordance with contract Specifications and EIR requirements.
- Participated in weekly C1056 and C1045 contract coordination meetings.
- Conducted weekly Environmental Construction Progress Meeting and monthly Environmental Mitigation (MMRP) update meeting with DB Contractor.
- Reviewed Weekly Construction Noise Compliance Reports prepared by the Independent Compliance Monitor and submitted to Metro and City of Beverly Hills.
- Participated in Construction Work Plan Workshops and Readiness Review Meetings.
- Reviewed and tracked contractor monitoring and reporting requirements.
- Performed periodic field inspections for noise and vibration mitigation measures, construction stormwater, BMPS and dust mitigation.
- Vibration Monitoring to be performed at a building adjacent to the Samsung Building.
- Evaluated progress and upcoming schedules of DB construction activities.
- Conducted field environmental monitoring and spot inspections for construction noise, stormwater BMPs, dust and cultural resources for C1056, C1045 and Third Party AUR work activities.
- Ambient Noise Measurements Survey conducted at Wilshire/Western project area.
- Installation plans, fabrication design and shoring plans for proposed tar sump installation at Detroit and Wilshire under City of Los Angeles BOE review.

### **CONSTRUCTION RELATIONS STATUS**

- Produced and distributed 16 construction work notices for advance utility relocations and construction activities.
- Made Project Presentations at the following: LA Police Commission, Council District 4, residents on S. Detroit, Greater Wilshire NC, Beverly Hills Community Meetings, Miracle Mile Chamber of Commerce, American Red Cross, Maintenance of Way Building 20 Design Advisory Group, Eat, Shop, Play Wilshire Coffee Meet Up, Beverly Hills City Council, and Page Museum MOA.
- Fielded and addressed the following: nighttime noise issues at South Wilshire/La Brea Staging Yard, traffic issues related to reconfiguration of Wilshire for the start of pile installation, added trench plate to mitigate noise at Wilshire/La Cienega and Wilshire/Western, concerns about traffic during Wilshire/La Brea street decking, sidewalk lighting between businesses, and k-rail for pile operations.
- Contacted businesses and residents about street decking options for Wilshire/La Brea.
- Visited and updated businesses and residences at future station locations to discuss utility relocations, business profiles and Eat, Shop, Play promotional campaign for businesses.
- Attended the following meetings: Construction Management, Advanced Utility Relocations, Construction Relations, Environmental Mitigations, STS Third Party Workshop, Beverly Hills MOA, Marketing, Social Media, Eat, Shop, Play, and Bus Relocations and Stops.
- Updated Facebook/Twitter website as needed.
- Continued with the "Eat, Shop, Play Spotlight" campaign to advertise and promote businesses along Wilshire Boulevard. Two businesses are being highlighted per month.

### **CREATIVE SERVICES STATUS**

- Continued to refine project artwork opportunities and locations.
- Responded to RFIs and submittals.
- Participated in Design Build Workshops and document reviews.
- Participated in Building 61S Design Advisory Working Group Meetings.

### **SAFETY & SECURITY STATUS**

- There were no injuries on the Project during December 2015.
- Safety staff participated in scheduled readiness review meetings to ensure compliance with approved Work Plans and contract specifications.
- Construction activities, Advance Utility Relocations and pre-construction (C1045) activities continue to be monitored during both day and night work shifts to document contractor compliance with contract specifications.
- Safety staff attended weekly progress meetings and other project meetings to evaluate Contractors Safety Program compliance with contract requirements.
- Construction Safety staff continue to work with Program Management and Construction Relations staff to monitor issues related to public concerns regarding noise, traffic and transient encampment hazards as well as public interactions with the construction crews.
- Monitoring of the C1078 Maintenance-of-Way Building site activities. .
- Monthly All Hands Safety Meeting for all Westside Purple Line Extension Contractors is scheduled to be held on January 5, 2016.
- November data are presented below. Construction Safety staff continue to work with contractors to insure accurate data.
- November 2015 Contractor Work Hours (Design & Construction): 48,780
- Contractor Project to Date Work Hours (Design & Construction through November 30, 2015): 429,519
- Total Project to Date Work Hours (Contractor & the IPMO Staff through November 30, 2015): 628,763
- Project to Date Recordable Injury Rate: 0.3 (One Recordable Injury). Each rate is per 200,000 work hours (National Rate): 3.2
- Project to Date Total Time Away Injury Rate: 0.3 (One Time Away From Work Injury) (National Rate 1.8).
- Project to Date Total Days Away Rate: 57.3 (180 Days Away From Work) (No National Rate Published).
- National Rates for Heavy and Civil Construction (NAICS Code 237) are for Calendar Year 2013, published by USBLS in December 2014.

### THIRD PARTY AGREEMENT STATUS

Third Party	Type of Agreement	Forecast Execution Date	Required Need Date	Status/ Comments
City of Los Angeles (LA)	Amendment to Master Cooperative Agreement	N/A	N/A	Parties will work under 2003 MCA.
City of Beverly Hills (BH)	MOAs (La Cienega only)	9/14 (AUR) 3/16 (D/B)	9/14 (AUR) 8/16 (D/B)	City of Beverly Hills approved the MOA for the C1056 Wilshire/La Cienega AUR contract on August 19, 2014. Metro continues to work with the City to establish an MOA for the C1045 Design/Build contract.
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	N/A	N/A	Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement.
Los Angeles County Public Works	Letter of Agreement	4/11	3/12	Executed
Caltrans	Amendment	8/11	3/12	Executed
Private Utilities	LOA, MOU, MCA, or MUA	9/14	N/A	Metro is working with affected third party utilities under existing agreements except for Qwest and Level 3. Draft agreements for Qwest and Level 3, and a new agreement for SCE are all under review. In absence of an agreement, work is being performed by work orders.

### ADVANCED UTILITY RELOCATION STATUS

- AT&T relocations at the Wilshire/Fairfax Station began in January 2015 and are anticipated to be completed in March 2016. AT&T relocations on Hamilton Drive in the Wilshire/La Cienega Station area were completed in July 2015. AT&T work for the remaining portion of the Wilshire/La Cienega Station area was temporarily put on hold to allow the gas, power and storm drain work to proceed. It is anticipated that the AT&T work will start back up in March 2016 and complete by the end of 2016.
- The C1055 AUR contractor for the Wilshire/Fairfax Station obtained Contractual Milestone No. 3 (Substantial Completion) on October 7, 2015. *Final punch list items were completed on December 31, 2015 and contract closeout has been completed.*
- The LADWP Power relocations at the Wilshire/Fairfax Station are on-going and anticipated to be complete by August 2016.
- The Notice to Proceed (NTP) Wilshire/La Cienega AUR Contract (C1056) was issued on January 12, 2015. Construction began in late April 2015. SCE relocations are continuing along with the City of Beverly Hills sewer, water and storm drain relocations. Work is on track for substantial completion in December 2016.
- Relocation of City of Beverly Hills owned fiber lines began on November 30, 2015. Conduit work is expected to complete in January 2016. Fiber pulling and splicing work to be performed by City of Beverly Hills approved Contractor and is anticipated for completion in March 2016.

### 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 Los Angeles Bureau of Engineering and the Los Angeles Police Commission to obtain Peak Hour Exemptions and Nighttime Construction Variances. Current efforts center around extending the existing nighttime noise variances to accommodate advanced utility relocations at the Wilshire/La Brea and Wilshire/Fairfax Station sites as well as obtaining new nighttime noise variances and peak hour exemptions to allow night work and weekend work to accommodate the Wilshire/La Brea, Wilshire/Fairfax and Wilshire/Western piling operations for the Design/Build contractor.

- The Peak Hour Exemption for Wilshire/La Brea pile installation was approved by the City of Los Angeles on November 8, 2013. A revised application was approved in June 2015 with the new construction dates of November 11, 2015 to May 3, 2016.
- The Peak Hour Exemptions for Wilshire/Fairfax and Wilshire/Western pile installations were approved by the City of Los Angeles on May 12, 2014. There will be a resubmittal with updated construction dates in early 2016.
- The Nighttime Noise Variance for the Wilshire/La Brea Advanced Utility Relocation work has been extended to February 2016 by the Los Angeles Police Commission.
- The Nighttime Noise Variance for the Wilshire/Fairfax Advanced Utility Relocation work has been extended to July 17, 2016 by the Los Angeles Police Commission.
- A Peak Hour Exemption was granted by the City of Los Angeles for the area near the Wilshire/La Cienega Station to allow for the spillover of traffic control devices from the City of Beverly Hills into the City of Los Angeles through November 2015. An extension was received in November 2015 to allow Metro to proceed with the exemption through January 2016.
- An approved Nighttime Noise Variance for pile installations at the Wilshire/La Brea Station was extended to April 30, 2016, at which time a six-month extension will be requested, if needed.
- A Holiday Moratorium Exemption for 2015 was obtained from the City of Los Angeles.
- Nighttime noise variances for the five Construction Yards were approved by the Los Angeles Police Commission. The dates for the variances are from January 20, 2016 to July 15, 2016, at which time STS will be required to obtain the next six month extension. The five yards include North Wilshire/La Brea, South Wilshire/La Brea, Wilshire/Crenshaw, Wilshire/Western, and Wilshire/Fairfax.

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## 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

## CHRONOLOGY OF EVENTS (Continued)

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

Description: Westside Purple Line Extension Design-Bo Contractor: SKANSKA - TRAYLOR - SHEA	uild Contract No. C1045 Status as of: January 1, 2016
Progress / Work Completed:	Major Activities (In Progress):
<ul> <li>Stage 1 pile delivery complete</li> <li>North yard substation equipment delievered</li> <li>North yard soundwall gates complete</li> </ul> Areas of Concern: None	<ul> <li>Wilshire/Western 85% design review by Metro</li> <li>Wilshire/La Brea 100% design continues</li> <li>Tunnel 100% design underway</li> <li>Systems/Trackwork 85% design underway</li> <li>Temporary TBM Power Substation continues</li> <li>Utility Relocation continues</li> <li>Wilshire/La Brea pile delivery and installation underway</li> <li>Wilshire/Fairfax utility pothole work underway</li> <li>Wilshire/Fairfax utility pothole work underway</li> <li>Design Unit 1 - Wilshire/Western 100% Complete</li> <li>Design Unit 3 - Wilshire/Fairfax 100% design begins</li> <li>South yard soundwall complete</li> <li>Removal of south yard tar sump</li> </ul>
Schedule Summary:	Original Contract Dates Extension Current Contract Forecast Variance CDs
Date of Award:11/04/14Notice to Proceed: (actual)01/12/15	Notice to Proceed (Estimated)         01/12/15         0         01/12/15         01/12/15         0
Original Contract Duration:3250 CDCurrent Contract Duration:3250 CD	Milestone 1: Substantial Completion         06/09/23         0         06/09/23         06/09/23         0
Elapsed Time from NTP: 354 CD	Milestone 2: Stations available to UFS         10/07/22         0         10/07/22         10/07/22         0
	Milestone 3: Start of Integration Testing to ROC01/10/23001/10/2301/10/230
	Milestone 4: Demobilization         12/06/23         0         12/06/23         12/06/23         0
	Milestone 5: Temporary Construction Easements01/10/23001/10/2301/10/230
Physical Percent Complete:	Cost Summary:\$ In millions1. Award Value:1,636.4
Physical completion: 4.87%*	<ol> <li>Executed Modifications: 3.1</li> <li>Approved Change Orders: 0.0</li> </ol>
* Note: Physical completion assessment reflects work completed and work in progress.	3. Approved Change Orders:0.04. Current Contract Value (1+2+3):1,639.55. Incurred Cost:352.8

## **CONTRACT C1045 STATUS**

Description: Wilshire/Fairfax AUR	Contract No. C1055						
Contractor: W.A. RASIC Constructi	on Status as of: January 1, 2016						
Company, Inc.							
Progress / Work Completed:	Major Activities (In Progress):						
- Achieved Substantial Completion							
- Contract closeout completed							
Areas of Concern:	Major Activities Next Period:						
None							
	Contract Forecast	iance					
Schedule Summary:	Contract lime Current Forecast var	iance CDs					
Date of Award: 03/28/14	Contract Dates Extension Contract Forecast Contract						
Date of Award:03/28/14Notice to Proceed:05/01/14	Contract Dates     Time Extension     Current Contract     Forecast     Var Contract       Notice to Proceed     05/01/14     0     05/01/14     05/01/14	Ds					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CD	Contract Dates     Time Extension     Current Contract     Forecast     Var Contract       Notice to Proceed     05/01/14     0     05/01/14     05/01/14	Ds					
Date of Award:03/28/14Notice to Proceed:05/01/14	Contract Dates     Lime Extension     Current Contract     Forecast     Var Forecast       Notice to Proceed     05/01/14     0     05/01/14     05/01/14       Milestone 1: Water @ La Brea     08/29/14     159     02/05/15     02/05/15	0 0					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CDCurrent Contract Duration:535 CD	Contract Dates     Lime Extension     Current Contract     Forecast     Var Contract       Notice to Proceed     05/01/14     0     05/01/14     05/01/14       Milestone 1: Water @ La Brea     08/29/14     159     02/05/15     02/05/15	O 0					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CDCurrent Contract Duration:535 CD	Contract DatesImme ExtensionCurrent ContractForecastVar ForecastNotice to Proceed05/01/14005/01/140Milestone 1: Water @ La Brea08/29/1415902/05/1502/05/15Milestone 2: Power @ Fairfax07/25/15007/25/1507/10/15Milestone 3:007/25/15007/25/150	0 0					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CDCurrent Contract Duration:535 CDElapsed Time from NTP:521 CD	Contract DatesLime ExtensionCurrent ContractForecastVar ForecastNotice to Proceed05/01/14005/01/140Milestone 1: Water @ La Brea08/29/1415902/05/1502/05/15Milestone 2: Power @ Fairfax07/25/15007/25/1507/10/15Milestone 3: Substantial Completion10/18/15010/18/1510/07/15	0 0 15					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CDCurrent Contract Duration:535 CD	Contract Dates         Lime Extension         Current Contract         Forecast         Var Forecast           Notice to Proceed         05/01/14         0         05/01/14         0         05/01/14         0           Milestone 1: Water @ La Brea         08/29/14         159         02/05/15         02/05/15         0           Milestone 2: Power @ Fairfax         07/25/15         0         07/25/15         0         07/25/15         07/10/15           Milestone 3: Substantial Completion         10/18/15         0         10/18/15         10/07/15         10/07/15           Cost Summary:	0 0 15					
Date of Award:       03/28/14         Notice to Proceed:       05/01/14         Original Contract Duration:       535 CD         Current Contract Duration:       535 CD         Elapsed Time from NTP:       521 CD	Contract Dates         Imme Extension         Current Contract         Forecast         Var Forecast           Notice to Proceed         05/01/14         0         05/01/14         0         05/01/14         0           Milestone 1: Water @ La Brea         08/29/14         159         02/05/15         02/05/15         0           Milestone 2: Power @ Fairfax         07/25/15         0         07/25/15         0         07/25/15         07/10/15           Milestone 3: Substantial Completion         10/18/15         0         10/18/15         10/07/15            Cost Summary: 1. Award Value:         14.4	0 0 15					
Date of Award:03/28/14Notice to Proceed:05/01/14Original Contract Duration:535 CDCurrent Contract Duration:535 CDElapsed Time from NTP:521 CD	Contract DatesImme ExtensionCurrent ContractForecastVar ForecastNotice to Proceed05/01/14005/01/14005/01/140Milestone 1: Water @ La Brea08/29/1415902/05/1502/05/150Milestone 2: Power @ Fairfax07/25/15007/25/1507/10/150Milestone 3: Substantial Completion10/18/15010/18/1510/07/150I. Award Value:14.42. Executed Modifications:14.4	0 0 15					
Date of Award:       03/28/14         Notice to Proceed:       05/01/14         Original Contract Duration:       535 CD         Current Contract Duration:       535 CD         Elapsed Time from NTP:       521 CD	Contract Dates         Imme Extension         Current Contract         Forecast         Var Forecast           Notice to Proceed         05/01/14         0         05/01/14         0         05/01/14         0           Milestone 1: Water @ La Brea         08/29/14         159         02/05/15         02/05/15         0           Milestone 2: Power @ Fairfax         07/25/15         0         07/25/15         0         07/25/15         07/10/15           Milestone 3: Substantial Completion         10/18/15         0         10/18/15         10/07/15            Cost Summary: 1. Award Value:         14.4	0 0 15					

## **CONTRACT C1055 STATUS**

Description: Wilshire/La Cienega AUR	Contract No.	C1056				
Contractor: Steve Bubalo Construction Co.	Status as of:	Status as of: January 1, 2016				
Progress / Work Completed: - Water Line North Wilshire-Gale to Tower - Water Line North Wilshire @ La Cienega Intersection	Major Activities (In Progress): - Gale Dr (North) Water Line - 8" Water Lateral heading North on Gale Dr. - Storm Drain- La Cienega to Gale STA 2+00 to 9+65 - Sewer Line "C' - Lateral between Hamilton Dr.(South) and Gale Dr. (South) - SCE 1 X 5" DB into 3' X 5 ' BOX @ Southwest corner of Tower Dr.					
Areas of Concern: None	Major Activiti - Continue sewer lin - Continue SCE duc - Continue water line	es on Wils tbank goin	shire Blvd	I:		
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
-						
Date of Award: 10/13/14	Notice to Proceed (Estimated)	01/12/15	0	0 1/12/15	01/12/15	0
Date of Award:10/13/14Notice to Proceed: (estimated)01/12/15Original Contract Duration:696 CD		01/12/15 07/13/16	0	01/12/15 07/13/16	01/12/15 07/13/16	0
Notice to Proceed: (estimated)     01/12/15       Original Contract Duration:     696 CD	(Estimated)					
Date of Award:10/13/14Notice to Proceed: (estimated)01/12/15Original Contract Duration:696 CDCurrent Contract Duration:696 CD	(Estimated) Milestone 1: Milestone 2:	07/13/16	0	07/13/16	07/13/16	0
Date of Award:10/13/14Notice to Proceed: (estimated)01/12/15Original Contract Duration:696 CDCurrent Contract Duration:696 CDElapsed Time from NTP:354 CD	(Estimated) Milestone 1: Milestone 2:	07/13/16 12/08/16	0	07/13/16	07/13/16	0
Date of Award:       10/13/14         Notice to Proceed: (estimated)       01/12/15         Original Contract Duration:       696 CD         Current Contract Duration:       696 CD         Elapsed Time from NTP:       354 CD	(Estimated) Milestone 1: Milestone 2: Substantial Completion Cost Summa 1. Award Value:	07/13/16 12/08/16 ry:	0	07/13/16	07/13/16 12/08/16 <b>\$ In m</b> 20.3	o o illions
Date of Award:       10/13/14         Notice to Proceed: (estimated)       01/12/15         Original Contract Duration:       696 CD         Current Contract Duration:       696 CD         Elapsed Time from NTP:       354 CD	(Estimated) Milestone 1: Milestone 2: Substantial Completion Cost Summa 1. Award Value: 2. Executed Modifi	07/13/16 12/08/16 <b>ry:</b> ications:	0	07/13/16	07/13/16 12/08/16 <b>\$ In m</b> 20.3 2.1	o o illions
Date of Award:       10/13/14         Notice to Proceed: (estimated)       01/12/15         Original Contract Duration:       696 CD         Current Contract Duration:       696 CD         Elapsed Time from NTP:       354 CD	(Estimated) Milestone 1: Milestone 2: Substantial Completion Cost Summa 1. Award Value: 2. Executed Modifi 3. Approved Change	07/13/16 12/08/16 <b>ry:</b> ications: ge Orders:	0	07/13/16	07/13/16 12/08/16 <b>\$ In m</b> 20.3 2.1 0.0	o o illions
Date of Award:       10/13/14         Notice to Proceed: (estimated)       01/12/15         Original Contract Duration:       696 CD         Current Contract Duration:       696 CD         Elapsed Time from NTP:       354 CD	(Estimated) Milestone 1: Milestone 2: Substantial Completion Cost Summa 1. Award Value: 2. Executed Modifi	07/13/16 12/08/16 <b>ry:</b> ications: ge Orders:	0	07/13/16	07/13/16 12/08/16 <b>\$ In m</b> 20.3 2.1	0 0 illions

## **CONTRACT C1056 STATUS**

Description: Division 20 (MOW/NRV) Contractor: Clark Construction	Contract No. C1078 Status as of: January 1, 2016					
Progress / Work Completed: - APDU #1 60% final design submitted for approval - APDU #2 60% final design submitted for approval - DU #3 60% final design submitted for approval - Completed review of APDU #1 and DU #3 60% final design	<ul> <li>Major Activities (In Progress):</li> <li>Started APDU #1 85% final design submittal.</li> <li>Reviewing APDU #2 60% final design submittal.</li> <li>Started APDU #2 and APDU #3 85% final design submittal.</li> <li>Preparing baseline schedule and final schedule of values submittals.</li> <li>Processing CN-0001 to respond to Metro Board Motion 40.1</li> </ul>					
Areas of Concern: - Potential change in building 61S location resulting from Metro Board Motion 40.1 may have schedule and cost impacts. Metro staff and contractor are studying several alternatives to be presented to the Board in February 2016.	<ul> <li>Major Activities Next Period:</li> <li>Submit baseline schedule and final schedule of values</li> <li>Submit APDU# 1 85% final design for approval.</li> <li>Submit DU#3 85% final design for approval.</li> <li>Submit DU#1 60% final design for approval.</li> <li>Submit APDU#3 60% final design for approval.</li> </ul>					
Schedule Summary:         Date of Award:       8/3/2015A         Notice to Proceed: (estimated)       9/30/2015A         Original Contract Duration:       853 CD	Original Contract Dates         Time Extension         Current Contract Contract         Forecast         Varianc           Notice to Proceed (Estimated)         09/30/15         0         0         09/30/15         0					
Current Contract Duration:853 CDElapsed Time from NTP:93 CD	Milestone 1: Substantial Completion     0 1/30/18     0     853     0 1/30/18     0					
Physical Percent Complete: Physical completion: 0.44%	Cost Summary:       \$ In millions         1. Award Value:       52.8         2. Executed Modifications:       0.0         3. Approved Change Orders:       0.0					
* Note: Physical completion assessment reflects work completed and work in progress.	3. Approved Change Orders.0.04. Current Contract Value (1+2+3):52.85. Incurred Cost:4.0					

## **CONTRACT C1078 STATUS**

## **CONSTRUCTION PHOTOGRAPHS**



C1056 Contractor Fabricating Water Pipe Prior to Installation



C1045 Contractor Installing the First Wilshire/La Brea Station Pile

### 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 De	scriptions

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.

## LIST OF ACRONYMS

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	
CEQA	Calendar Day
	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
L	

# LIST OF ACRONYMS (Continued)

FTA	Federal Transit Administration
FTE	Full Time Equivalent
GBR	Geotechnical Baseline Report
GDSR	Geotechnical Design Summary Report
HMM	Hatch Mott MacDonald
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
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LAWA	Los Angeles World Airports
	Los Angeles International Airport
LNTP	Limited Notice To Proceed
LONP	Letter Of No Prejudice
LOP	Life-of-Project
LPA	Locally Preferred Alternative
LRTP	Long Range Transportation Plan
LRV	Light Rail Vehicle
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
	<b>u</b>
NTE	Not to Exceed
NTP	Notice To Proceed
000	Operations Control Center
OSHA	Occupational Health and Safety Administration
PA/VMS	Public Address/Visual Messaging Sign
PE	Preliminary Engineering

## LIST OF ACRONYMS (Continued)

PEERPermit Engineering Evaluation ReportPIPProject Implementation PlanPLAProject ManagerPMIPProject Management Implementation PlanPMOCProject Management PlanPMPProject Management PlanP&PPolicies & ProceduresPRProject Study ReportQAQuality AssuranceQARQuality Assurance ReportQCQuality Assurance ReportQCQuality Assurance ReportQCQuality CrottolQPSRQuarterly Project Status ReportQTIBQuality ControlQPSRQuality Crotsong Management PlanRCHARRail Crossing Hazards Analysis ReportRCMPRisk Assessment Management PlanRCCRequest For ChangeRFPRequest for Special ConsiderationRHARisk Hazard AnalysisRLPERed Light Photo EnforcementROCRail Operations CenterRODRecord Of DecisionROMRough Order of MagnitudeROWRight-Of-WayRPZRunway Protection ZoneRSDRevenue Service DateSAVStand Alone ValidatorSBCCSteve Bubalo Construction CoSCAQMDSouthern California Air Quality Management DistrictSCADASupervisory Control and Data AcquisitionSCESouthern California Regional Rail AuthoritySHPOState Historic Preservation OfficeSITSystem Integration TestingSOQStatement of Qualification	_		
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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
ТВМ	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