Regional Connector Transit Project



REGIONAL CONNECTOR TRANSIT 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).

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PROJECT SUMMARY

As of June, 2017

REGIONAL CONNECTOR TRANSIT CORRIDOR PROJECT
DESIGN CONSULTANT: Connector Partnership JV

CONSTRUCTION MANAGEMENT CONSULTANT: ARCADIS CONTRACTOR: Regional Connector Constructors, Joint Venture

LA County Storm Drain Demo and Removal at 2nd/Broadway

WORK/ACTIVITY DURING PAST MONTH



- Launched TBM to mine from west end of Grand Arts/Bunker Hill Station
- Completed tunnel eye (left tunnel) at TBM retrieval pit
- Completed traffic diversion and initiated power relocation work at 6th/Flower.
- 6th/Flower CIP vault and shoring design approved by LABOE
- Excavation under decking on Flower Street (between 4th and 5th)
- Pile installation on Flower Street (between 5th and 6th)
- Continued 126" storm drain installation (Hobas) along 2nd Street
- Continued Level 3 excavation at Historic Broadway Station

EXPENDITURE STATUS (\$ In Millions)

SCHEDULE ASSESSMENT

•	-						
ACTIVITIES	CURRENT BUDGET	EXPENDED AMOUNT	PERCENT EXPENDED	MAJOR SCHEDULE ACTIVITIES	PRIOR PERIOD	CURRENT PLAN	VARIANCE FROM PRIOR PERIOD (Weeks)
				Environmental			
DESIGN	\$149.1	\$133.5	89.5%	FEIS / FEIR	N/A	04/26/12	Complete
				SEIS Flower St.	N/A	12/18/15	Complete
RIGHT-OF-WAY	\$120.5	\$73.9	61.3%	Design			
				PE Notice to Proceed	N/A	01/04/11	Complete
CONSTRUCTION	\$1,165.4	\$489.6	42.0%	Final Design complete	09/14/17	09/14/17*	0
OTHER	\$375.1	\$122.7	32.7%	Note: No adverse impact *Excluding the complet Right-of-Way			anticipated from current design delays. Bridge Design
TOTAL	\$1,810.1	\$819.7	45.3%	All parcels available	08/15/18	08/15/18	0
Comment Dodenst neffects De	and an analysid Life.	of Dunings Du	almos madinalization	Note: DOW dates are a	divided to rot	ant the letect l	D/D Contractoria accordinated Naced

Current Budget reflects Board approved Life-of-Project Budget and includes Finance Charges.

Note: ROW dates are adjusted to reflect the latest D/B Contractor's coordinated Need Dates. Duco Yard need date is in August 2018.

Note: Expended amounts are through 06/30/2017 (preliminary draft).

AREAS OF CONCERN

 Securing and maintaining work hour variances along the entire alignment will serve to facilitate field productivity.
 Conversely, delays and or disruptions to permits will directly yield to extended construction schedules, and added costs.
 Metro looks to continue collaboration with the LA Police Commission and stakeholders – complemented by strict adherence to environmental requirements – to allow for timely permitting as may be required.

Construction - Design / Build Contract

Notice to Proceed	07/07/14	07/07/14	Complete
Construction complete	10/21/21	10/26/2021	0.7
Revenue Service Date	12/19/21	12/24/2021	0.7

CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD

- Review & Approval of AFC package for Historic Broadway Station
- Preparation of WYE Fan Plant and Flower Cut & Cover 100% submittal
- Preparation of Civil Segment A & B 100% submittals
- Complete TBM mining (1st alignment left tunnel)
- Complete excavation of Level 3 at Historic Broadway Station
- Complete TBM removal (1st Left)
- Complete TBM assembly and test (2nd Right)
- Complete storm drain relocation at Historic Broadway Station
- Continue SOE installation on Flower Street (between 5th and 6th)
- Continue excavation along Flower Street

ROW ACQUISITION	PLAN	CERTIFIED	ACQUIRED	REMAINING
PERMANENT PARCELS	5	5	4	1*
TEMPORARY PARCELS	31	16	16	2*
TOTAL PARCELS	36	21	20	3**

- * Remaining parcels are scheduled in-advance of need dates.
- ** DucoYard, 2nd & Hope Pedestrian Bridge, and Wye Fan Plant.

PROJECT OVERVIEW & STATUS

The Regional Connector Transit Project (Project) will link the current terminus of the Blue and Expo Lines at 7th/Metro Center to the Gold Line near the Little Tokyo/Arts District Station in a new underground alignment along Flower Street and 2nd Street in Downtown Los Angeles. The Project has been re-sequenced to become operational in a single phase. It will link to the existing Eastside Gold Line along 1st Street and the existing Gold Line to Pasadena along Alameda Street toward Union Station. The Revenue Service Date (RSD) is planned for December 24, 2021.

The alignment will extend underground from the 7th Street/Metro Center Station under Flower Street to 2nd Street. It will then proceed east underneath the 2nd Street tunnel to just west of Central Avenue where the alignment will veer northeast under privately-held property, Japanese Village Plaza. At 1st Street and Central, the tracks continue underground heading northeast under 1st and Alameda Streets. A junction ("Wye") will be constructed beneath the 1st and Alameda intersection. To the north and east of the junction, trains will rise to the surface through two new portals to connect to the Metro Gold Line heading north to Pasadena and east to East Los Angeles. The north portal will be located northeast of the current Little Tokyo/Arts District Station and tracks. This portal will rise to connect to the existing LRT bridge over the US-101 freeway. The portal will be connected to the 1st and Alameda junction by a new cut and cover box structure crossing beneath Temple Street and Alameda Streets, running immediately east of the existing Little Tokyo/Arts District Station and tracks. The east portal will be located within 1st Street between Alameda and Vignes Streets. Tracks will rise to the east within this second portal and connect at-grade to the existing Metro Gold Line tracks toward East Los Angeles.

Major Contract Procurement

The Board authorized to solicit a major Design/Build (D/B) contract, C0980, in August 2011. Metro staff recommended to award contract C0980 to the Regional Connector Constructors (RCC), a joint venture of Skanska USA Civil West California District, Inc. and Traylor Brothers, Inc. and Metro Board authorized award of the contract on April 24, 2014; Notice to Proceed (NTP) to RCC, issued July 7, 2014. Solicitation of an Advanced Utility Relocations Contract, C0981R, completed February 2014 after Metro's Procurement team awarded the contract to Pulice Construction, Inc. in January 2014 and issued NTP on February 18, 2014. Contract C0981R was terminated for convenience on April 14, 2015 and remaining AUR work has been transferred to the C0980 D/B Contractor, RCC.

PROJECT OVERVIEW & STATUS (Cont.)

Construction

Varied operations are underway throughout the alignment to include: guideway and station box support of excavation, excavation, TBM mining, settlement monitoring instrumentation placement, and utility relocations. Operations are currently active seven days with some being performed on a multiple-shift basis.

Systems

The existing functional operations at the Rail Operations Center (ROC) necessitate an expansion to accommodate the central control functions associated with five new rail lines and extensions including the Regional Connector Transit Project. Design for the ROC Reconfiguration Project was completed to reconfigure the second floor to prepare for Expo II and Foothill Rail Line extensions, and the design will be further updated with each successive integration of the Crenshaw/LAX, Regional Connector and Purple Line projects.

Light Rail Vehicle

Metro is procuring four (4) Light Rail Vehicles (LRVs) for the Project. The vehicles will be procured and delivered by Kinkisharyo International, LLC under Option 2 of Contract P3010. The base contract includes 78 LRVs and options of 157 for a total of 235. The manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop.

Program Management

In January 2017, the Metro Board revised the Life of Project Budget for Regional Connector Project 860228 to \$1.756 billion. The budget for Concurrent Non-FFGA activities related to Project 861228 remains at \$39.9 million.

Funding for the Project comes from a variety of sources to include Federal New Starts, TIFIA Loan, State repayment of capital project loan, State Proposition 1B, State Proposition 1A (High Speed Rail), local agency and lease revenues, and from the Congestion Mitigation and Air Quality Improvement Program. The bulk of the funding - 56% - comes from federal sources.

Project commitments through *June* 2017 increased by \$12.8 million to \$1.44 billion or 81.32% of the Current Budget. The increase reflects RCC executed modifications, *Environmental*, Legal and Community Relations. Project (*preliminary draft*) expenditures through *June* 2017 are \$797.0 million or 45.0% of the budget. The expenditures to date cover all cost elements including: engineering management, construction management support services, third party utility relocation work, agency administration, design build contract (C0980), right of way, various master cooperative agreements, and other professional services.

PROJECT OVERVIEW & STATUS (Cont.)

The	project	master	schedule	forecasts	revenue	service	in 2021	through a	a simultaneou	IS
ope	ning of b	oth the	Azusa and	d East LA	legs of th	e Metro	Gold Lir	ne.		

A comprehensive risk refresh process was undertaken in late 2016 by both Metro and the
FTA/PMOC to evaluate current schedule and cost forecasts. Outcomes for total project
costs were compatible and contributed to establishing an increased Life of Project
Budget. The Project's Risk Register is reviewed and updated monthly.

MANAGEMENT ISSUES / OPPORTUNITIES

Concern No. 1: Unforeseen conditions at 6th & Flower DWP relocation could further

impact schedule and budget.

Status/Action: Designs have been fully reviewed with extensive potholing

information. Project is managing DWP and RCC crews closely to

work concurrently in street closure.

Concern No. 2: Complex Systems Integration may delay the project's planned

Revenue Service Date.

Status/Action: Project has conducted an initial high level management discussion to

address system-wide operating policies and potential capital projects needed to support an integrated LRT system with the completion of the Regional Connector Project. Working-level system integration

teams have also been established.

Concern No. 3: Managing and responding to stakeholder needs during cut-and-cover

activities along Flower Street has the potential to impact both

schedule and budget.

Status/Action: Project is engaged in active stakeholder outreach and construction

impact mitigation. Working closely with the contractor to ensure concerns are addressed and that MMRP requirements are fully

complied with.

PROJECT ALIGNMENT Regional Connector & Station [under construction] CIVIC ++++O++++ Amtrak/Metrolink Blue continues along current Gold Line route to Azusa. BUNKER HISTORIC CORE FINANCIAL DISTRICT Gold continues along Gold continues along current Expo Line route to Santa Monica. current route to East LA. TOY DISTRICT DISTRICT Blue continues along current route to Long Beach.

BASE PROJECT SCOPE

Engineering

This phase consists of Preliminary Engineering (PE), Advanced PE (APE) and Final Design. During PE, The Connector Partnership, a joint venture between AECOM, Inc. and Parsons Brinkerhoff (CPJV), was responsible for engineering, design, and development of fixed facilities, stations, guideways, tunnels, and related facilities for the Project to a level sufficient to provide the basis for final design. CPJV was also responsible for documentation necessary to support the Environmental Assessment process and the engineering and final design for advanced utility relocations.

Alignment modifications and Value Engineering were developed during Advanced PE to accommodate environmental mitigations and further develop the design to better accommodate rail operations and reduce the cost of the Project. PE and APE were completed in March 2013.

Final design for advanced utility relocations performed by Metro and CPJV was completed during Advanced PE and it included DWP water and power lines as well as City of LA sewer lines. AUR final design for other utilities was performed by individual utility companies. The balance of Final Design is being performed by the RCC as part of the C0980 Contract.

Metro Furnished Equipment

Metro is procuring four (4) LRVs for the Project. The vehicles will be procured and delivered by Kinkisharyo International, LLC under Option 2 of Contract P3010. The vehicles will be tested and accepted at the Gold Line Yard and put in service when the line is open for Revenue Service. Metro will also furnish Universal Fair System (UFS) equipment, which will be designed, fabricated and installed under a Metro contract.

Construction

The scope of work in this phase is performed by third party utility companies and RCC as follows:

Third Party Advanced Utility Relocations

Several utility owners have already relocated many of their assets and will continue to do so through mid-2017. The utilities include fiber optic, telephone, cable television, electrical (power cable pulling and splicing), and natural gas lines. Utility work started in late 2012 and has progressed throughout the alignment.

BASE PROJECT SCOPE (Cont.)

Contract C0980 Regional Connector Design Builder

This is the largest contract of the project that includes: final design and construction of underground guideway; station structures; miscellaneous underground structures; trackwork; traction power; overhead conductor rail; train control; communications; and all electrical and mechanical equipment and testing. The contractor will restore the Mangrove site and impacted streets to their previous condition at the end of the project.

The design-build contractor also must meet sensitive noise and vibration standards at Disney Music Hall and the Colburn Music School, control subsidence along the alignment, and meet various other requirements for the various stakeholders along the alignment. This contract was awarded to Regional Connector Constructors, JV (RCC) on May 6, 2014 and NTP was issued July 7, 2014. Metro has exercised several contract options and has added the remaining Advanced Utility Relocation work (C0981R Contract) to the C0980 Contract.

Contract C0981R Regional Connector Advanced Utility Relocations

Metro awarded the design-bid-build Advanced Utility Relocations Contract (Metro Contract No. C0981R) to Pulice Construction, Inc. to complete specific relocations at each of the future stations and along Flower Street in advance of the main D/B Contract C0980. The relocated utilities were long-lead construction tasks that were known to conflict with cut and cover excavations.

The scope of this work included the following relocations: LADWP water lines, LADWP power lines, and City of Los Angeles sewer lines. Metro assisted the contractor in obtaining exemptions as necessary for the City of LA nighttime work as well as for Peak Hour work hours.

Contract C0981R was terminated for convenience on April 14, 2015 and all remaining work was transferred to C0980 Contract. Contract C0981R was closed out and final payment processed.

BASE PROJECT SCOPE (Cont.)

Professional Services

Contract MC070 – Construction Management Support Services

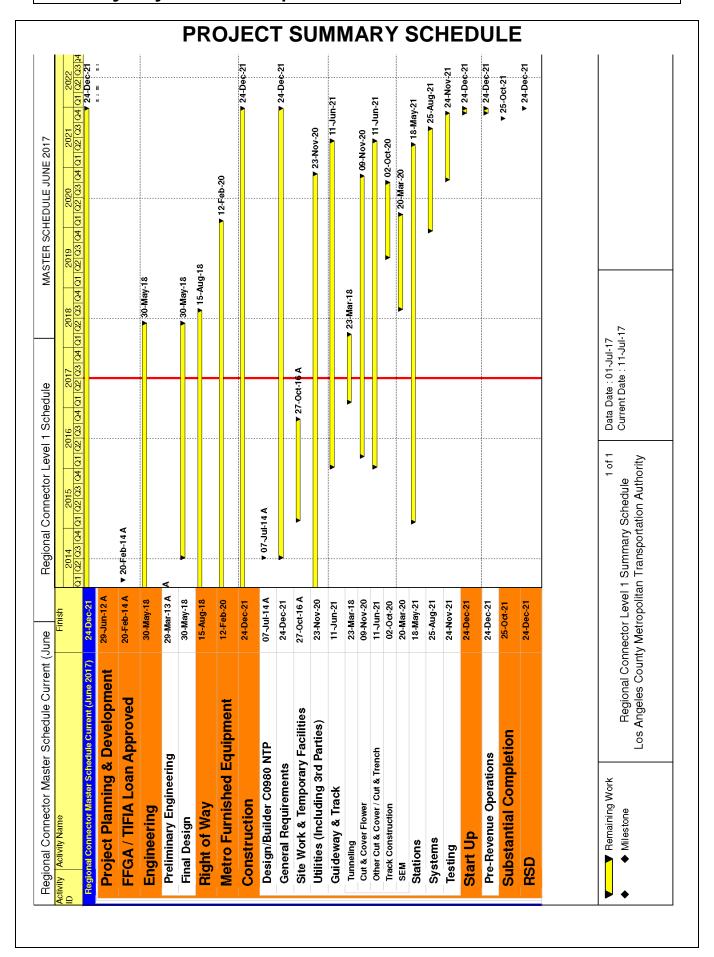
Metro awarded the contract for Construction Management Support Services (CMSS) to ARCADIS, Inc. ARCADIS' Project Manager and other staff are co-located with Metro at the Integrated Project Management Office (IPMO) located at the Mangrove site. The service commitment has been extended through June 2018.

Contract E0119 – Preliminary Engineering and Design Support Services During Construction

Metro awarded this contract to CPJV. CPJV provided preliminary engineering services to support the EIR/EIS, prepared project definition documents for Contract C0980, and prepared the basis for final design development for Contract C0981. CPJV is currently performing design support during construction (DSDC) for the C0980 contract. The service commitment has been extended through June 2018.

KEY MILESTONES SIX-MONTH LOOK AHEAD

BM broke through Grand Av Arts/Bunker Hill Station	Milestone Date	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17
	06/01/17 A						
CP Implementation for 6th/Flower Full Closure	06/03/17 A						
U12 Communication - 100% Design submitted	06/23/17 A						
omplete TBM Retrieval Pit Tunnel Eye	06/30/17 A						
listoric Broadway Station Package - AFC Approved	07/07/17		•				
U2 Cut & Cover - 100% Design	07/07/17						
ivil Segment A - 100% Design	07/07/17						
ivil Segment B - 100% Design	07/21/17						
complete TBM Mining (1st Alignment - Left Tunnel)	07/20/17						
U2 Cut & Cover - AFC Design submitted	08/16/17						
complete TBM Removal (1st - Left)	08/17/17						
complete Pile Intallation along Flower St (DB 39-63, 5th ~ 6th)	08/17/17						
complete Storm Drain Relocation at Historic Broadway Sta	08/31/17						
ivil Segment A - AFC approved	08/31/17			•			
ivil Segment B - AFC approved	09/15/17				♦		
complete TBM Assembly & Test (2nd - Right)	09/29/17						
U2 Cut & Cover - AFC Design Approved	09/14/17				•		
egin TBM mining (2nd - Right)	10/02/17						
complete Flower South Temp Decking (DB 39-63, 5th~6th)	10/15/17						
complete DWP Power conduit and vault relocation (RCC work)	11/09/17						
◆ MTA Staff MTA Board Action	FTA (I	Federal Traistration)	ansit ^v	V Utili	ty Compa	ny	
Other Agencies Contractors	O Design	Consultar	nt 〈	C09	80 D/B C	ontractor	
"A" following date is actual and completed	★ New						

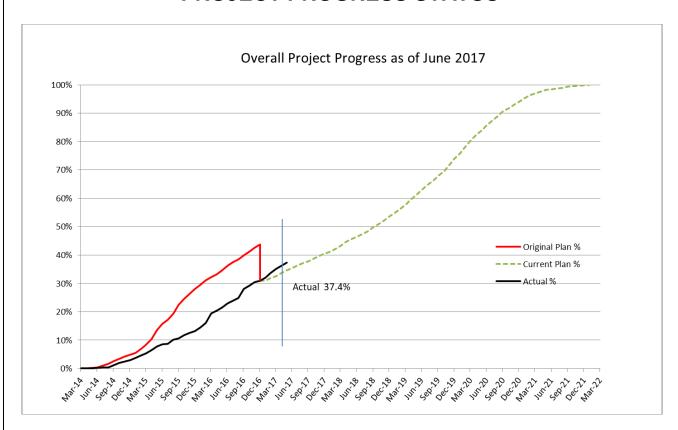


SCHEDULE MEASUREMENTS

	Status	Change from Last Period	Comment
Forecast Revenue Service	12/2 <i>4</i> /2021	<i>5</i> CD	
TIFIA Revenue Service	2/25/2023	None	
FFGA Revenue Service	2/25/2023	None	
Final Design Progress:			
Contract C0980	98.1%	0.2%	Not impacting the critical path of the project
Construction Contracts Progress:			
Contract C0981R & C0980	33.5%	1.3%	

Note: Construction Progress Measurement has been modified to reflect current methodology: excluding all General Requirements, Construction Mobilization, Design Mobilization, Final Design and Provisional Sum (Schedule C). Progress values include executed modifications and change orders.

PROJECT PROGRESS STATUS

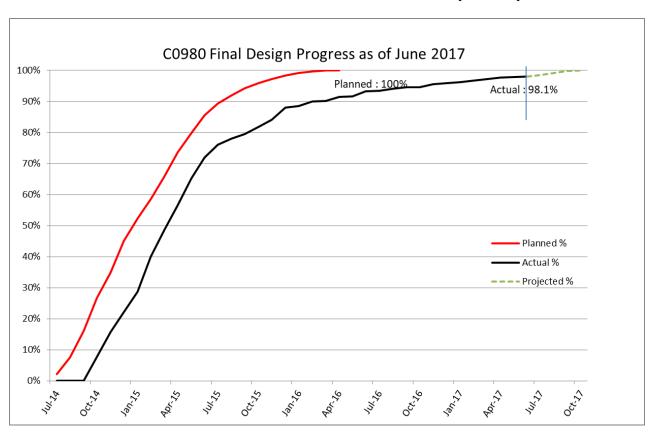


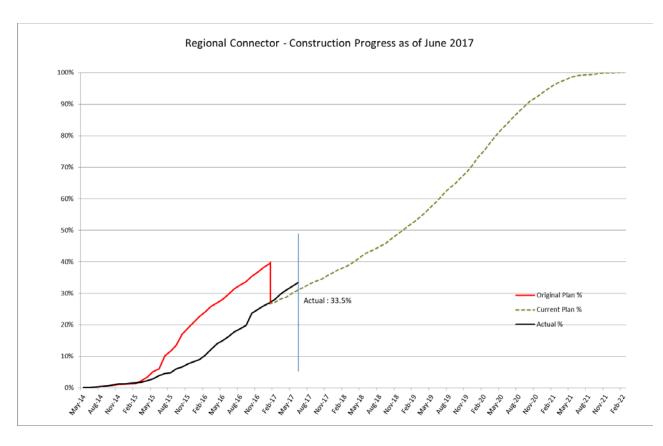
The above is based on the planned and actual progress of C0980 (Design-Build) as reflected in its re-baselined contract schedule, and the C0981 (AUR) as-built schedule.

The cumulative overall project progress is 37.4%.

Note: Overall Project Progress Measurement was modified in January 2016 to reflect current methodology: excluding all General Requirements, Construction Mobilization, Design Mobilization and Provisional Sum (Schedule C). Values include executed modifications and change orders.

PROJECT PROGRESS STATUS (Cont.)





MAJOR EQUIPMENT DELIVERY STATUS

Tunnel Boring Machine

RCC designed, procured and delivered the tunnel boring machine (TBM) and equipment.

Light Rail Vehicles

Metro is procuring four (4) LRVs for the Project. The vehicles will be procured and delivered by Kinkisharyo International, LLC under Option 2 of Contract P3010. LRV design and design reviews as well as manufacturing of the prototype vehicles continued this period. The manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop. Project deliveries are anticipated no later than February 2020.

<u>UFS (Universal Fare System) & TVM (Ticket Vending Machines)</u>

Procurement of UFS and TVM will commence after RCC completes the final design. Metro is coordinating with RCC for installation and testing schedules, which is expected to be complete by October 2020.

DESIGN-BUILDER'S (C0980) LONG LEAD ITEM LIST

Activity Name	Early Finish	Need Date
FAB/DELIV EDGE LIGHTING - CENTRAL STA	18-Aug-17	1-Apr-21
FAB/DELIV EDGE LIGHTING - BROADWAY STA	18-Aug-17	31-Aug-21
FAB/DELIV EDGE LIGHTING - HOPE STA	18-Aug-17	29-Sep-21
ELEVATOR COORDINATION DRAWINGS - 2ND/HOPE	23-Aug-17	26-Aug-20
ESCALATOR COORDINATION DRAWINGS - 2ND/HOPE	28-Aug-17	2-Mar-20
FAB/DELIV 2ND/HOPE UNIT SUBSTATION AND TRANSFORMER	14-Sep-17	28-Jun-19
FAB/DELIV 2ND/BROADWAY UNIT SUBSTATION AND TRANSFORMER	14-Sep-17	19-Sep-19
PROCURE LIGHTWEIGHT BACKFILL SUBCONTRACTOR	29-Sep-17	13-Nov-20
FAB/DELIV ELEVATORS - 1ST/CENTRAL	31-Dec-17	25-Jan-21
FAB/DELIV TRAIN CONTROL CABLE	16-Jan-18	16-Jan-20
FAB/DELIV ESCALATORS - 1ST/CENTRAL	21-Mar-18	3-0ct-21
PROCURE FIRE PROTECTION SUBCONTRACTOR	22-Mar-18	17-Jun-19
FAB/DELIV EMERGENCY VENTILLATION FANS - HOPE (4)	1-Jun-18	28-Jun-19
FAB/DELIV EMERGENCY VENTILLATION FANS - BROADWAY (4)	1-Jun-18	12-Dec-19
FAB/DELIV ELEVATORS - 2ND/BROADWAY	4-Jun-18	21-Mar-21
FAB/DELIV 2ND/HOPE TPSS	8-Jun-18	17-Apr-19
FAB/DELIV OCS POLES / EQUIPMENT	8-Jun-18	29-Dec-20
FAB/DELIV OCR FOR TUNNEL	8-Jun-18	29-Jan-21
FAB/DELIV ESCALATORS - 2ND/BROADWAY	9-Jun-18	25-Feb-21
FAB/DELIV ELEVATORS - 2ND/HOPE	23-Aug-18	26-Aug-21
FAB/DELIV ESCALATORS - 2ND/HOPE	28-Aug-18	2-Mar-21
FAB/DELIV TRAIN CONTROL EQUIPMENT	31-Jan-19	1-Feb-21
FAB/DELIV 2ND/BROADWAY TPSS	5-Mar-19	10-Jan-20
PROCURE MASONRY SUBCONTRACTOR	24-Jun-19	21-Oct-20
PROCURE STEEL (PERMANENT) SUBCONTRACTOR	24-Jun-19	12-Mar-21
PROCURE DOORS & HARDWARE SUBCONTRACTOR	1-Jul-19	19-Feb-21
PROCURE TRACK SUBCONTRACTOR - PERMANENT	2-Jul-19	28-Jan-20
PROCURE GLAZING SUBCONTRACTOR	15-Jul-19	29-Apr-21
PROCURE ARCHITECTURAL PRECAST PAVER SUBCONTRACTOR	18-Jul-19	21-Apr-21
PROCURE STATION SIGNS SUBCONTRACTOR	23-Jul-19	22-Oct-21
PROCURE PRECAST COMM STRUCTURE PURCHASE ORDER	26-Jul-19	19-Apr-21
PROCURE STAINLESS STEEL SUBCONTRACTOR	2-Aug-19	18-Feb-21
PROCURE CAULKING & SEALANTS SUBCONTRACTOR	9-Aug-19	21-Jan-21
PROCURE METAL CEILING SUBCONTRACTOR	14-Aug-19	8-Apr-21
PROCURE SHEET METAL SUBCONTRACTOR	22-Aug-19	10-Jun-21
PROCURE PAINT SUBCONTRACTOR	4-Sep-19	8-Apr-21
PROCURE FLUID APPLIED WATERPROOFING SUBCONTRACTOR	4-Sep-19	3-Feb-21
PROCURE DRYWALL & FRAMING SUBCONTRACTOR	18-Sep-19	6-Oct-21
PROCURE FLOORING SUBCONTRACTOR	27-Sep-19	28-Oct-21
PROCURE TILE SUBCONTRACTOR	27-Sep-19	8-Mar-21
PROCURE SPRAY ON ACCOUSTICAL FINISH SUBCONTRACTOR	7-Oct-19	5-Mar-21
PROCURE NEW 115RE RAIL - HIGH STRENGTH RAIL	24-Oct-19	20-May-20
PROCURE RAIL - JOBWIDE	24-Oct-19	20-May-20 20-May-20

DESIGN-BUILDER'S (C0980) LONG LEAD ITEM LIST (Cont.)

Activity Name	Early Finish	Need Date
PROCURE SPECIAL TRACK - JOBWIDE	24-Oct-19	25-Jun-20
PROCURE NEW 115RE RAIL - STANDARD RAIL	24-Oct-19	20-May-20
FAB/DELIV EMERGENCY VENTILLATION FANS - CENTRAL (4)	11-Nov-19	16-Sep-20
PROCURE TERRAZZO SUBCONTRACTOR	11-Nov-19	10-Nov-21
PROCURE PRECAST STRUCTURAL ELEMENTS SUBCONTRACTOR	18-Nov-19	11-Aug-21
PROCURE ARCHITECTURAL CONCRETE PAVING SUBCONTRACTOR	25-Nov-19	7-Apr-21
PROCURE AC SUBCONTRACTOR	12-Dec-19	28-May-21
PROCURE MILLING SUBCONTRACTOR	12-Dec-19	28-May-21
PROCURE PCC PAVING SUBCONTRACTOR	12-Dec-19	28-May-21
FAB/DELIV GLAZING SPIDERS - ALL STATIONS	18-Dec-19	19-May-21
PROCURE BALLASTED TRACK - NORTH ALAMEDA LEG	23-Dec-19	15-Sep-21
PROCURE GRANITE STONEWORK SUBCONTRACTOR	29-Jan-20	4-Oct-21
FAB/DELIV EMERGENCY BOOSTER FANS (12)	6-Feb-20	26-Aug-21
PROCURE PLATE PURCHASE ORDER	11-Aug-20	16-Oct-20
PROCURE MSE PANEL PURCHASE ORDER	11-Aug-20	16-Oct-20

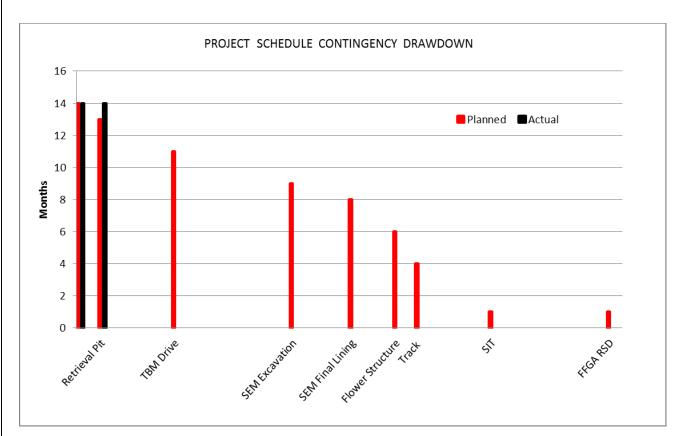
CRITICAL PATH NARRATIVE

Critical Path (C0980):

The critical path remained the same for the month of June. The critical path runs through the mining of the remaining first leg and second leg of tunnels. After TBM mining, the SEM crossover structure east of the Historic Broadway Station will commence. Once the crossover structure is complete, track work installation will follow. The critical path continues through systems installation and testing from 1st/Alameda to 7th/Flower, followed by systems integration testing and pre-revenue operations.

The previous critical path through DWP Power relocation and cable pulling at 6th/Flower was improved as a result of the five-month full closure of 6th Street between Flower and Hope Street.

PROJECT SCHEDULE CONTINGENCY DRAWDOWN



PROJECT SCHEDULE CONTINGENCY DRAWDOWN ANALYSIS

The project schedule contingency drawdown curve is based on the anticipated FFGA RSD date of February 25, 2023.

EGION	AL CONNECTOR TRANSIT CORRIDOR PROJECT														
OST RE	PORT														
OLLAR	\$ IN THOUSANDS														
SCC CODE		FFGA BUDGET	ORIGINAL CURRENT			T BUDGET COMMITM		CURRENT BUDGET		COMMITMENTS		EXPENDITURES		FORECAST	BUDGET/ FORECAST
				PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE			
10	GUIDEWAYS & TRACK ELEMENTS	280,622	204,691	0	250,041	1,850	242,440	8,970	96,192	408	250,850	80			
20	STATIONS, STOPS, TERMINALS, INTERMODAL	354,268	219,477	0	230,615	0	223,869	592	33,447	0	230,690	7			
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	0	0	0	0	0	0	0	0	0	0				
40	SITEWORK & SPECIAL CONDITIONS	141,785	422,453	1,401	600,674	10,803	527,257	11,542	354,356	563	606,129	5,45			
50	SYSTEMS	69,667	73,848	0	73,599	0	63,689	1,362	5,557	0	73,599				
	CONSTRUCTION SUBTOTAL (10-50)	846,343	920,468	1,401	1,154,930	12,653	1,057,255	22,466	489,551	971	1,161,268	6,33			
60	ROW, LAND, EXISTING IMPROVEMENTS	115,889	74,208	0	92,742	9	74,252	40	51,390	0	92,742				
70	VEHICLES	16,275	16,275	0	16,275	0	16,275	0	1,678	0	16,275				
80	PROFESSIONAL SERVICES	261,455	257,973	0	378,883	118	265,165	10,906	229,402	0	378,883				
	SUBTOTAL (10-80)	1,239,963	1,268,925	1,401	1,642,830	12,780	1,412,947	33,412	772,022	971	1,649,168	6,33			
90	UNALLOCATED CONTINGENCY	135,399	126,892	-1,401	86,511	0	0	0	0	-971	80,172	-6,33			
100	FINANCE CHARGES	27,571	7,115	0	14,301	0	0	0	0	0	14,301				
	TOTAL PROJECTS 460228 & 860228 (10-100)	1,402,932	1,402,932	0	1,743,642	12,780	1,412,947	33,412		0	1,743,642				
	ENVIR ONMENTAL/PLANNING - 400228		6,075	0	6,075	0	6,075	0		0	6,075				
	ENVIRONMENTAL/PLANNING - 460228		18,125	0	20,425	0	20,425	0	11,111	0	20,425				
	TOTAL PROJECTS 400228 & 460228 (EVN/PLAN'G)	0	24,200	0	26,500	0	26,500	0	24,933	0	26,500				
	400228, 460228, 860228 TOTAL	1,402,932	1,427,132	0	1,770,142	12,780	1,439,447	33,412	796,955	0	1,770,142				

PROJECT COST ANALYSIS – 860228

Original Budget:

The Original Budget of \$1.427 billion reflects the April 2014 Board Approved Life-of-Project (LOP), plus finance costs of \$7.1 million.

Current Budget:

In January 2017, the Metro Board revised the LOP Budget for the Regional Connector Project 860228 to \$1.756 billion. Finance costs, estimated at \$14.3 million, are also reflected leading to a total of \$1.770 billion. Budgets were adjusted throughout the SCC structure reflecting revised values as of December 2016. The total current budget remains the same as of May 2017.

Commitments:

Commitments increased by \$12.78 million this period to \$1.44 billion which represents 81.32% of the Current Budget. The increase is due to procurement actions associated with Contract C0980 Modifications and services related to *Environmental*, Legal and Community Relations.

Expenditures:

Expenditures are cumulative through *June* 2017 (*preliminary draft*). Expenditures increased by \$33.41 million this period for costs associated with C0980 Design Build contract, Engineering Management Support, Metro Project Administration, Construction Management Support Service, Legal Services, Third Party Master Cooperative Agreements with the City of LA, Community Relations, ROW and Environmental Consultant Services. The \$797.0 million in expenditures to date represents 45.0% of the Current Budget.

Current Forecast:

The total current forecast remains the same as the total current budget.

PROJECT COST STATUS (Cont.)

CONCURRENT NON-FFGA ACTIVITIES (861228)

PROJECT COST STATUS BY FTA SCC

DOLLARS IN THOUSANDS

SCC CODE	Description	ORIGINAL BUDGET	CURREN	T BUDGET	COMMIT	TMENTS	EXPEND	ITURES	CURRENT	FORECAST	BUDGET / FORECAST
			PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	PERIOD	TO DATE	VARIANCE
10	GUIDEWAYS & TRACK ELEMENTS	-	0	0	0	0	0	0	0	0	(
20	STATIONS, STOPS, TERMINALS, INTERMODAL	-	0	0	0	0	0	0	0	0	(
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	10,480	0	10,480	0	10,480	0	0	0	10,480	(
40	SITEWORK & SPECIAL CONDITIONS	0	0	0	0	0	0	0	0	0	(
50	SYSTEMS	0	0	0	0	0	0	0	0	0	(
	CONSTRUCTION SUBTOTAL (10-50)	10,480	0	10,480	0	10,480	0	0	0	10,480	(
60	ROW, LAND, EXISTING IMPROVEMENTS	27,748	0	27,748	0	27,748	0	22,498	0	27,748	(
70	VEHICLES	0	0	0	0	0	0	0	0	0	(
80	PROFESSIONAL SERVICES	650	0	650	0	650	-1	203	0	650	(
	SUBTOTAL (10-80)	38,878	0	38,878	0	38,878	-1	22,701	0	38,878	(
90	UNALLOCATED CONTINGENCY	1,113	0	1,113	0	0	0	0	0	1,113	(
100	FINANCE CHARGES	0	0	0	0	0	0	0	0	0	(
	TOTAL PROJECTS 861228 (10-100)	39,991	0	39,991	0	38,878	-1	22,701	0	39,991	(
	861228 TOTAL	39,991	0	39,991	0	38,878	-1	22,701	0	39,991	(
OTE: E	XPENDITURES ARE CUMULATIVE THROUGH 06/30/2017	DRAFT. ACCO	UNTING HAS	NOT CLOSED	JUNE 2017 N	MONTH-END.					

PROJECT COST ANALYSIS – 861228

Original Budget:

The Original Budget, Current Budget, and Current Forecast reflect the Board Approved Life-of-Project (LOP) budget on April 24, 2014.

Current Budget:

There is no change to the Budget for this period.

Commitments:

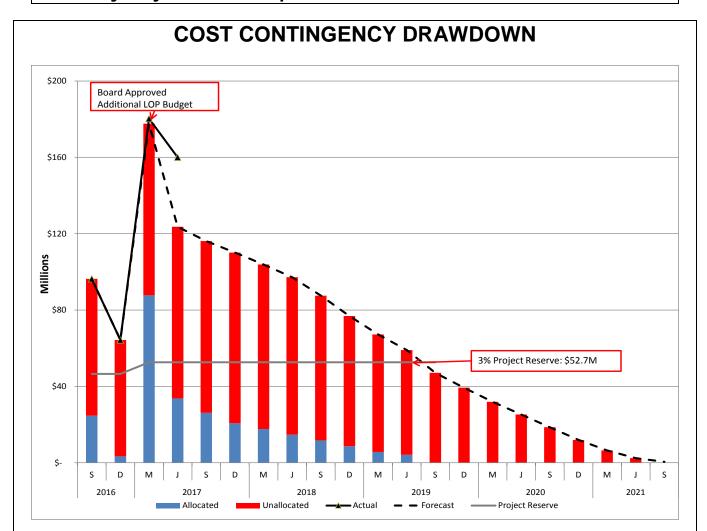
Commitments reflect actions through June 2017 (preliminary draft).

Expenditures:

Expenditures are cumulative through *June* 2017. Expenditures decreased by \$1k this period for costs associated with professional services. The \$22.7 million in expenditures through *June* 2017 represents 56.8% of the Current Budget.

Current Forecast:

There was no change to the Forecast for this period.



COST CONTINGENCY DRAWDOWN ANALYSIS

In January 2017, the Metro Board revised the Life-of-Project Budget to \$1.756 billion, which included increasing the unallocated contingency to \$89 million and allocated contingency to \$92.8 million. A revised drawdown plan for unallocated contingency, correlated to anticipate risk trends, was developed to monitor and measure drawdowns moving forward.

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 policy was adopted by the Metro Board of Directors in September 2012.

The project cost contingency drawdown curve is based on a 2021 Revenue Service date.

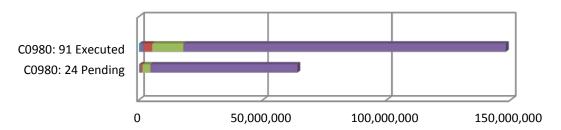
This month there is a drawdown of \$11.49 million from contingency due to D/B modifications. The remaining total project contingency (allocated and unallocated) is \$160.04 million.

COST CONTINGENCY DRAWDOWN ANALYSIS (Cont.)

PROJECT COST CONTINGENCY DOLLARS IN THOUSANDS								
	Contingency	Previous Period	Current Period	To-Date	Remaining Contingency (Forecast)			
Unallocated Contingency	89,946	(2,034)	(1,401)	(3,435)	86,511			
Allocated Contingency	92,809	(9,185)	(10,094)	(19,279)	73,530			
Total Contingency	182,754	(11,219)	(11,495)	(22,714)	160,041			

SUMMARY OF CONTRACT MODIFICATIONS

Contract Modifications (MODs) by Cost Level



	C		
	91 Executed	24 Pending	Total
■ Under \$100K	1,378,488	455,000	1,833,488
■ \$100K to \$250K	3,881,404	904,864	4,786,268
■ \$250K to \$1M	12,565,404	3,156,000	15,721,404
Over \$1M	130,179,875	59,345,003	189,524,878
Total Contract MODs	148,005,171	63,860,867	211,866,038
Contract Award Amount	927,226,995	927,226,995	
% of Contract MODs	16.0%	6.9%	

Note

- 1. Percent of Contract MODs equals the Total Contract MODs divided by the Contract Award Amount.
- 2. Pending Mods are under negotiation.

Ninety-one (91) changes with total value of \$148.0 million have been executed since NTP of Contract C0980. An additional twenty-four (24) changes, with a total estimated value of \$63.86 million are pending.

June 2017

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0980 Regional Connector Transit Project Design-Build

As of May 2017:

• DBE Goal – Design

A numerically expressed percentage of funds apportioned to Design Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area:

20%

• Current DBE Commitment Design

Total DBE Committed Dollars divided by Total Contract Value for Design or Construction:

\$11.3M (22.63%)

• Current DBE Participation

Total amount paid to date to DBEs divided by the amount paid to date to Prime:

21.63%

Twelve (12) Design DBE sub-consultants have been identified to date

• DBE Goal - Construction

A numerically expressed percentage of funds apportioned to Construction Contracts and is calculated based upon the relative availability of DBE firms as compared to all firms in the relevant geographic market area:

18%

• Current DBE Commitment Construction

Contract commitment divided by current contract value for Construction:

\$157.7M (18%)

• Current DBE Participation

Total amount paid to date to DBEs divided by the amount paid to date to Prime:

18.15%

Sixty-two (62) Construction DBE sub-contractors have been identified to date

PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0980 Regional Connector Transit Project Design-Build

Targeted Worker Goal

Construction work to be performed by residents from Economically Disadvantaged Area in the United States

40.00%

• Targeted Worker Current Attainment

58.03%

Apprentice Worker Goal

Construction work to be performed by Apprentices

20.00%

• Apprentice Worker Current Attainment

17.71%

Disadvantaged Worker Goal

Construction work to be performed by Disadvantaged Workers who are residents of the United States

10.00%

Disadvantaged Worker Current Attainment

7.85%

FINANCIAL/GRANT STATUS

Status of Funds Anticipated

June 2017

FEDERAL - CMAQ	METRO SUBMITTED ON NOVEMBER 25, 2013 A GRANT APPLICATION OF \$64.0M TO THE FTA. GRANT APPROVAL WAS EXECUTED ON SEPTEMBER 24, 2014. FUNDS ARE AVAILABLE FOR DRAW DOWN. ADDITIONAL CMAQ FUNDS WILL BE OBLIGATED IN FY18.
FEDERAL - SECTION 5309 NEW STARTS	METRO SUBMITTED ON NOVEMBER 25, 2013 A GRANT APPLICATION OF \$65.0 M TO THE FTA. GRANT APPROVAL WAS EXECUTED ON SEPTEMBER 23, 2014. METRO SUBMITTED ON JUNE 11, 2015 A GRANT AMENDMENT OF \$100M. GRANT AWARDED AUGUST 2015. FUNDS ARE AVAILABLE FOR DRAW DOWN METRO SUBMITTED A GRANT AMENDMENT OF \$100M IN JULY 2016. GRANT APPROVAL WAS EXECUTED 0N AUGUST 18, 2016. FUNDS ARE AVAILABLE FOR DRAW DOWN.
MEASURE R - TIFIA LOAN: (Transportation Infrastructure Finance & Innovation Act)	A TIFIA LOAN AGREEMENT BETWEEN THE DEPARTMENT OF TRANSPORTATION AND METRO FOR \$160M WAS EXECUTED ON FEBRUARY 20, 2014. THE DISBURSEMENT OF \$117,803,000 WAS SPLIT INTO THREE PARTS. RECEIVED THE FIRST DISBURSEMENT OF \$25.2 MILLION 4TH QUARTER FY2016. RECEIVED THE SECOND DISBURSEMENT OF \$36.7 MILLION 1ST QUARTER FY2017. THE THIRD DISBURSEMENT OF \$55.9 MILLION IS AVAILABLE AND WILL BE DISBURSED IN 1ST QUARTER FY18.
CITY OF LA	FUNDING AGREEMENT OF \$42M WITH THE CITY OF LA WAS APPROVED IN JUNE 2014. THE FIRST PAYMENT DRAWDOWN OF \$5.0M WAS IN JUNE 2016. THE SECOND PAYMENT DRAWDOWN OF \$7.0M WAS BILLED IN JUNE 2017 AND THE PAYMENT WILL BE RECEIVED IN JULY 2017.

Status of Funds by Source

June 2017

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) COMMIT	(D/B) MENTS	(E) EXPEI	(E/B) NDITURES	(F) BILLED TO FUNDING SOURCE	(F/B)
		ANTICIPATEI	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - CMAQ	\$64.000	\$227.000	\$64.000	\$64.000	28%	\$53.974	24%	\$45.180	20%
FEDERAL - SECTION 5309 NEW STARTS	\$669.900	\$669.900	\$265.000	\$669.900	100%	\$240.936	36%	\$237.274	35%
FEDERAL - RIP	\$0.000	\$14.400	\$0.000	\$14.400	100%	\$0.000	0%	\$0.000	0%
MEASURE R - TIFIA LOAN	\$160.000	\$160.000	\$117.803	\$160.000	100%	\$83.131	52%	\$83.131	52%
STATE PROPOSITION 1A HSRB *	\$114.874	\$114.874	\$114.874	\$114.874	100%	\$114.874	100%	\$114.874	100%
STATE PROPOSITION 1B PTMISEA **	\$149.500	\$135.100	\$135.100	\$135.100	100%	\$135.100	100%	\$135.163	100%
STATE STIP RIP	\$2.590	\$2.590	\$2.590	\$2.590	100%	\$2.590	100%	\$2.590	100%
STATE CAPITAL PROJECT LOANS - OTHERS ***	\$132.466	\$325.745	\$284.730	\$260.803	80%	\$154.081	47%	\$128.692	40%
MEASURE R	\$27.571	\$0.000	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
CITY OF LOS ANGELES	\$41.984	\$41.984	\$12.000	\$17.780	42%	\$12.000	29%	\$12.000	29%
LEASE REVENUE	\$64.247	\$64.247	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$1,427.132	\$1,755.840	\$933.158	\$1,439.447	82.0%	\$796.686	45.4%	\$758.904	43.2%

EXPENDITURES ARE CUMULATIVE THROUGH JUNE 30, 2017

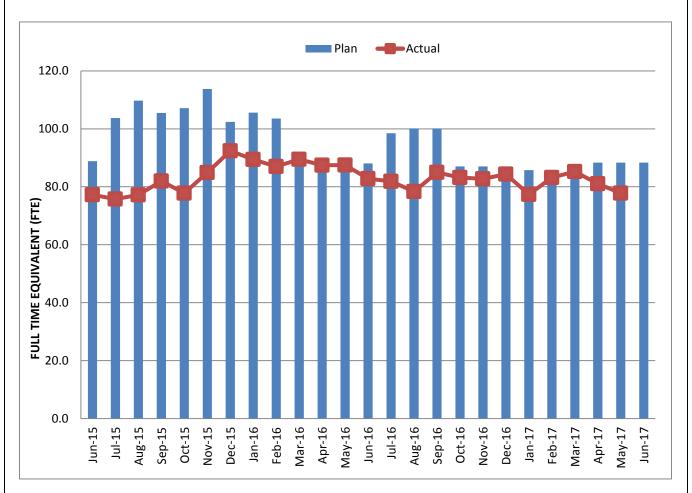
ORIGINAL BUDGET BASED ON FUNDING PLAN INCLUDED IN THE APPROVED FULL FUNDING GRANT AGREEMENT

^{*} STATE PROPOSITION 1A HIGH SPEED RAIL BONDS

^{**} STATE PROPOSITION 1B PUBLIC TRANSPORTATION MODERNIZATION, IMPROVEMENT AND SERVICE ENHANCEMENT ACCOUNT

^{***} OTHERS INCLUDE TOA ADMINISTRATION, NB PROPOSITION A ADMINISTRATION, AND PROPOSITION 1B INTEREST (FOR A TOTAL OF \$.318M)

STAFFING STATUS TOTAL PROJECT STAFFING – METRO AND CONSULTANTS

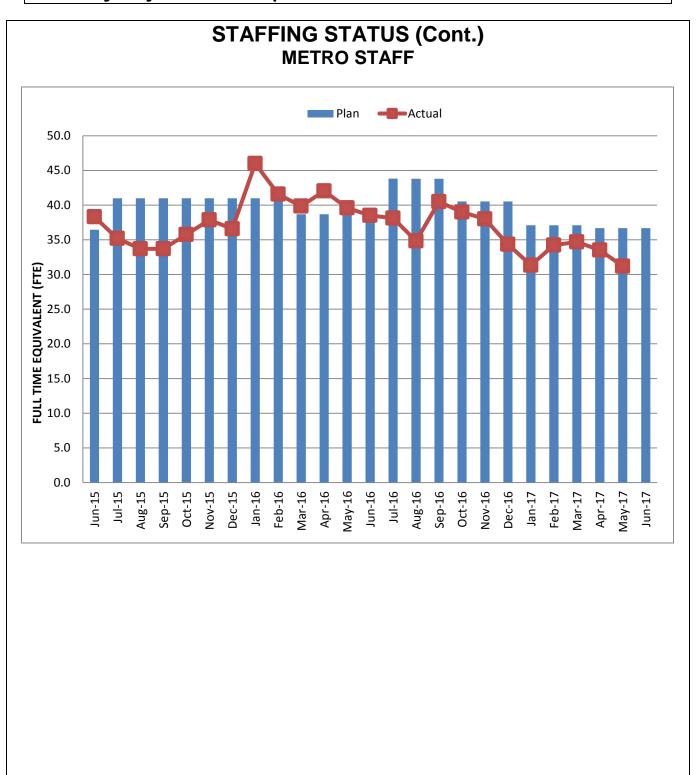


TOTAL PROJECT STAFFING

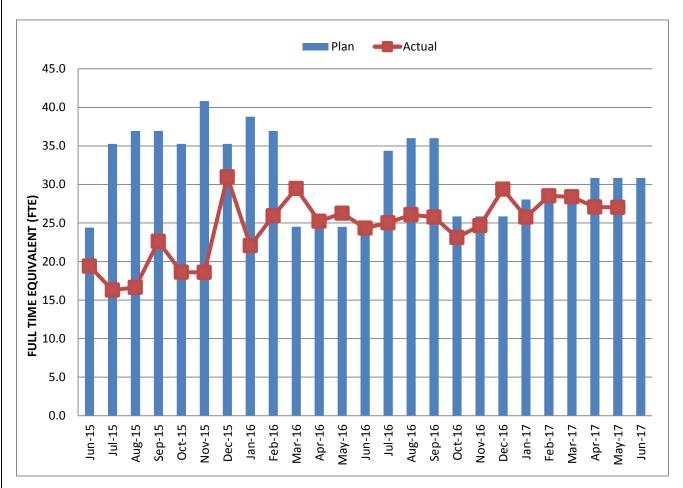
The overall FY17 Total Project Staffing plan averages 90.2 FTE's per month.

For *May* 2017, there were a total of *31.2* actual FTEs for Metro's Project Administration staff and *46.6* FTEs for consulting staff. The total actual project staffing for *May* 2017 was *77.8* FTEs versus FTEs planned (88.4).

The shortfall in staffing has not impacted Metro's ability to effectively manage the Project. Review of staffing plans is on-going to ensure needs are addressed.



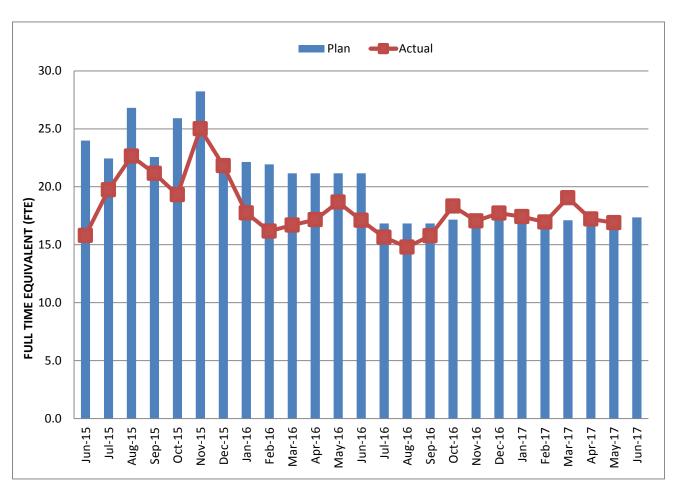
STAFFING STATUS (Cont.) CONSTRUCTION MANAGEMENTSUPPORT SERVICES CONSULTANT



Note:

a) The Actual FTEs for the month are based on the FTE hours submitted in the invoice for that month.

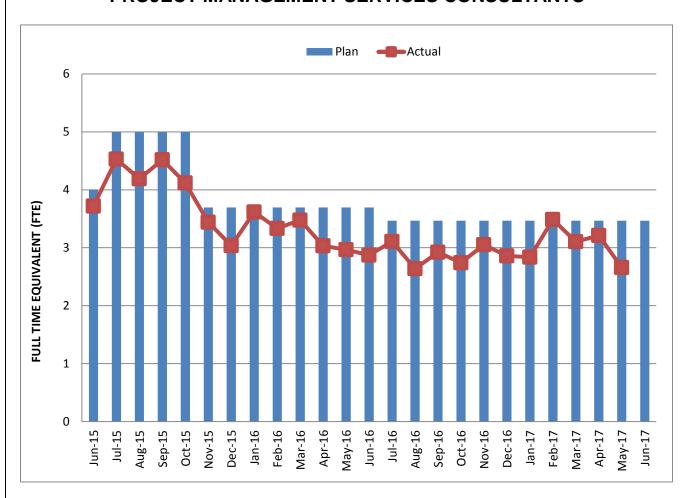
STAFFING STATUS (Cont.) ENGINEERING SERVICES CONSULTANTS



Note:

a) The Actual FTEs for the month are based on the FTE hours submitted in the invoice for that month.

STAFFING STATUS (Cont.) PROJECT MANAGEMENT SERVICES CONSULTANTS



REAL ESTATE STATUS

Regional Connector - Real Estate Status Summary April 30, 2017

Type of Take	Number of Parcels	Certified	Decertified	Appraisals In Process / Completed	Offers Made	Escrow Closed	Effective OIP	Parcels Available	Remaining
Full Takes	2	2		2	2		2	2	
Part Takes	3	3		3	3			2	1
SSE	12	8	4	9	9	6	2	7	
TCE/ROE	14	5	3	6	6	4	1	5	
PE	3	3		3	3	2		3	
Sub Total	34	21	7	23	23	12	5	20	1
Pedestrian Bridge	420-1, 420-2, 420-3								1
Mangrove Fan Plant	TBD								1
Grand Total	36	21	7	23	23	12	5	20	3

REAL ESTATE ACQUISITION

OPEN REAL ESTATE MATTERS

Japanese Village Plaza – "JVP"

• The acquisition of this parcel is complete. The trial to determine the value of the required right of way was held on April 4, 2017 and the balance due to the Property owner has been paid. The owner's appeal of the judgement was denied by the court.

City of Los Angeles (Mangrove Parcels) - No Change

 The appraisal is underway to value the additional right of way required for the Fan Plant. The Project requested that Real Estate delay exercising the option to extend the 5-year easement for an additional three (3) years until closer to the expiration date.

City of Los Angeles Department of Water and Power 'Duco Yard' - DWP (RC-473)

- LADWP has agreed to a compromise in the valuation of the Property. The Board approved the recommended the purchase price at its June 22nd meeting. Staff will proceed to draft a Purchase and Sale Agreement.
- LADWP submitted its estimate of the modification required to their yard to continue their operations. The estimate is being reviewed by the Project. Follow-up interface between the parties continues.

QUALITY ASSURANCE STATUS

C0980 Regional Connector D/B

- Metro QA reviewed and provided comments on RCC's quality-related submittals,
 Construction Quality Work Plans (CQWPs) and milestone submittals;
- Performed oversight verification of RCC's design and construction activities;
- Reviewed test results for Portland cement concrete, welding and MT/UT and rebar mill certifications for the TBM Launch Pit;
- Commenced an ongoing surveillance of the power relocation activities at 6th/Flower Street. This activity will be in progress until the pre-cast and cast-in-place vaults have been installed along with their associated components and accessories;
- Continued to track damaged ring segments that have occurred during tunnel boring ring building. RCC will repair the damages during and after the placement of the emergency walkway installation. This activity has not been scheduled yet; and
- Commenced the annual audit of RCC. The audit will be completed by the first week of July. The results and any findings will be reported during the next reporting period.
- Metro QA also performed a desktop review surveillance of the tunnel boring and ring build documentation of the left tunnel, from Historic Broadway Station portal at Sta 49+ 34 to Grand Av Arts/Bunker Hill Station at Sta 32+77 east portal, reached on June 1, 2017 and continue to monitor the tunnel boring and ring building activities. The next reporting will be after the TBM breaks through at 4th/Flower Street.
- An as-built review was held in June. Future meetings will be scheduled as needed and based upon data available.
- There was no new NCR's opened by RCC or Metro in June.
- NCR 023 was closed in June. Metro QA approved the disposition and transmitted to RCC.
- Metro QAR C0980-QAR2016-S07-01 remains open until the Re-Shoring Plan for Grand Av Arts/Bunker Hill Station is reviewed and approved by Metro Engineering. The plan is currently with RCC's Engineer of Record for review.
- RCC testing performed to date are as follows:
 - 1. Portland cement concrete 28-day test results: 845; number accepted: 845
 - 2. Asphalt concrete density tests results: 203; number accepted: 203
 - Soil compaction (in-situ density) tests performed to date: 168; number accepted: 168
 - 4. Welding MT/UT testing to date is: 8142 number accepted: 8139

QUALITY ASSURANCE STATUS (CONT.)

•	The aggregate samples taken and tested on June 19, 2017 met Project
	Specification Requirements. There was a split sample taken by the RCC's
	Independent Test Lab and Metro's Independent Test Lab. Both Laboratory
	samples met Project Specification Requirements. There have been three (3)
	consecutive samples taken and tested by both RCC and Metro Independent Test
	Laboratories that have met Project Specification Requirements. This sampling and
	testing now closes the issue of failed aggregate testing from previous tests from
	February to April 2017.

ENVIRONMENTAL STATUS

- SWPPP inspections of all project areas are conducted weekly by RCC to observe site conditions and report on performance of stormwater protection Best Management Practices.
- Metro *is preparing* the *18th* Quarterly Mitigation Monitoring and Reporting Plan covering May 2017 to July 2017. Metro will submit the report to the FTA by August *14*, 2017.
- RCC is currently working on the 100% landscape design plans for Segment A and the 85% landscape design plans for Segment B.
- Metro is preparing the 5th Semi-Annual Cultural Resources Report, documenting cultural resources monitoring from January 2017 to June 2017. The report will be submitted to the FTA and the SHPO by July 31, 2017. Reporting will continue a semi-annual basis until ground-disturbing activities conclude.

CONSTRUCTION AND COMMUNITY RELATIONS STATUS

Construction Relations

- Responded and addressed project related inquiries from the public received on the project hotline, email and during office hours at the Little Tokyo Community Office.
- Performed public outreach and construction coordination to impacted area stakeholders regarding the following construction activities throughout the alignment: geotechnical instrument installation and maintenance, pavement repair, storm drain work, TBM maintenance and retrieval activities, and the five-month closure of 6th/Flower. Distributed ten (10) construction notices to the public on these activities through email and made it available on the project website and social media outlets.
- Coordinated construction activities with ten (10) stakeholders throughout the project alignment on the above activities.
- Held a Regional Connector community meeting to provide an update on the progress of tunneling, the 6th/Flower street closure and introduce new CLC members.
- Continued standing meetings with: LA City Councilmember District 14, the Mayor's Office, Onni Times Square, Common Wealth Partners, The Westin Bonaventure Hotel, Charles Dunn, Citigroup Center, the Central Library/Hines, The Standard Hotel, Pegasus Apartments and the California Club.

Social Media Outreach and Marketing Efforts

- Facebook has over 10k followers with a total reach of 310k users. Twitter had 401k impressions with 2,662 total followers. The most popular posts included the TBM breakthrough at Grand Av Arts/Bunker Hill Station and a promotion of a local business along the 6th Street closure at Flower Street.
- The monthly E-Newsletter had a similar open rate of 22% as the previous month.

Community Relations

 Continued work with the monthly Little Tokyo Marketing & Business Task Force. Held Small Business workshop with Little Tokyo Service Center Partner and Asian Pacific Islander Small Business program.



CREATIVE SERVICES STATUS

Art Program

- Responded to RFIs and Submittals
- Participated in coordination meetings with project team
- Provided art program update at community meeting
- Continued to support mitigation efforts

Signage & Environmental Graphic Design

- Responded to RFIs and Submittals
- Participated in Design Build document reviews

SAFETY & SECURITY STATUS

C0980 Regional Connector

- Monitored RCC's pre-employment drug/alcohol testing and new employee safety orientation to insure compliance with contract specifications.
- Participated in weekly progress meetings with RCC's management personnel and Metro's Construction Manager to discuss safety/security/quality related issues and construction work schedules.
- Conducted Project Safety Orientation for new Metro/Consultants, visitors, and IPMO project staff. Training sessions included Safety Orientation, Underground Safety, and Self Rescuer Training.
- Participated in work plan reviews, daily crew safety meetings, and the RCC 'Safety Stand Down' sessions.
- Monitored construction field activities daily to insure compliance with contract specifications. Participated with RCC staff in field safety inspection walks of multiple project worksites, laydown, and storage yards.
- Monitored Third Party contractor's work activities to insure safety compliance.
- Made recommendations to utility crews regarding contract activities and improving overall traffic control and pedestrian safety.
- RCC reported no recordable injuries in the month of June 2017.
- C0980 Contractor RCC reported 68,252 work-hours for the month of May 2017 (work-hours are reported with a one-month lag time). The total C0980 Contract to Date work hours through May 2017 are 1,599,563 with a total of eight (8) recordable injuries and no Lost Workday case injuries. The C0980 Contract Recordable Injury Rate is 1.00. The Bureau of Labor Statistics National Average Recordable Injury Rate is 2.8 for heavy civil construction projects.
- Project to Date Total Work Hours including both the C0980 and the C0981 Advanced Utility Relocation contract through *May* 2017 is now *1,710,622* hours with nine (9) recordable injuries. Project Total Recordable Injury Rate is now 1.09. There have been no days away, lost time, or severe injuries on the project.

THIRD PARTY AGREEMENT STATUS

Agency	Type of Agreement	Status/Comments
City of Los Angeles	Amendment to Master Cooperative Agreement	Parties will work under 2003 MCA.
Los Angeles Department of Water and Power	Amendment to Memorandum of Understanding	Metro and LADWP will continue to work under the terms of the previous Cooperative Agreement.
Los Angeles County Public Works	Letter of Agreement	Executed in April 2011
Caltrans	Amendment	Executed in August 2011
Private Utilities	LOA, MOU or UCA	All agreements in place with exception of Level 3, Qwest, XO Comm, Zayo and Time Warner. Metro is in discussion with those utilities to establish agreements.

ADVANCED UTILITY RELOCATION STATUS

LADWP-Power Services anticipated completion dates for cable pulling, splicing and removal of old facilities including the following:

- RCC is continuing to coordinate with LADWP and the City of Los Angeles in preparation for the relocation of the local LADWP electrical system in the 6th and Flower area. Metro continues to work with all parties to facilitate coordination of the relocation design and construction in preparation for future decking installation.
- Metro, LADWP, and RCC addressed the Los Angeles Bureau of Engineering's (LABOE) comments from the 6th and Flower Power relocation plans, and received approval from LABOE on June 2, 2017. RCC is currently installing power conduit laterals on 6th Street east of Flower Street. In addition, LADWP is running and installing conduit to the live vaults.
- RCC received approval of the vaults; one located on 6th, west of Flower Street, and the other located on Flower Street, south of 6th Street. Potholing for both vaults is scheduled to start in early July 2017.

C0980 UTILITY WORK STATUS

RCC is currently coordinating with all affected utility owners to relocate their utilities by lowering in place or support and protect to accommodate the Project.

PEAK HOUR CONSTRUCTION VARIANCES

Metro is actively pursuing extended hour variances/exemptions to accommodate Project needs by working with the City of Los Angeles, Bureau of Engineering, the Los Angeles Police Commission, the City of Los Angeles Department of Transportation and the City Council District 14th Office to obtain Peak Hour Exemptions.

Historic Broadway and Grand Av Art/Bunker Hill Stations:

 As of May 8, 2017, Historic Broadway Station has entered steady state condition in which soldier piling/decking operations have been completed in the City ROW. Emphasis is primarily on underground station construction until approximately the year 2021.

Flower Street Cut & Cover Area

- Metro obtained an AM and PM peak hour exemption to place k-rail on the eastside of Flower Street (between 4th and 5th Sts.) to support above and below ground construction operations for decking along Flower Street. Approval was granted by the Board of Public works from October 1, 2016 to November 9, 2019.
- Metro obtained an AM and PM peak hour exemption to perform pre-trenching operations on Flower St (5th St Wilshire Blvd) from April 10, 2017 to June 23, 2017.
- Metro obtained a PM peak hour exemption on June 2, 2017 to facilitate the traffic control configuration of the 6th St closure implemented on June 3, 2017.

POLICE COMMISSION CONSTRUCTION VARIANCES

Metro continues to work closely with the Los Angeles Police Commission and actively pursue new night/Sunday work hour variances as well as expanded geographic limits and time extensions for existing variances to accommodate Project needs.

In June 2017, LAPD approved one (1) new variance for the following location:

 At the Flower Street area, one new (1) variance was approved for the installation of decking on Flower Street between the intersection of 5th Street and Wilshire Boulevard.

In June 2017, LAPD approved time extensions for two (2) existing variances for the following locations:

- At the Flower Street work area, one (1) variance was extended for the installation of soldier piles between 5th Street to Wilshire Boulevard.
- At the Flower Street work area, one (1) variance was extended for the TBM Retrieval between 4thStreet and 5th Street and 4th Street between Flower and Figueroa Streets.

CPUC CROSSING SUMMARY

In July 2016, Metro and RCC finalized the items that needed to be included in the checklist for the Safety Certification Status. Metro is in the process of reviewing the Safety Certification Checklist submitted by RCC in October 2016. The list involves both design and construction items below:

- Passenger Stations, Train Control and Signals, Traction Power, Overhead Catenary, Communications, Track and Structures, Vertical Transportation (elevators, escalators), Fire Life Safety Systems, Security Systems, and CPUC Specific Requirements.
- Metro and RCC staff have reached a consensus of each Systems Safety Certification item per discipline that needs to be included in the plan. These items have been inserted into a Microsoft Access Database for tracking, sorting, and distribution to key staff members for alerting of any potential issues that must be resolved. This will ensure that the completion of the Safety Certification Plan will be completed in a timely manner and not impact the Revenue Operation Date (ROD).

As of January 2017, the Safety Certification Checklist has been approved by Metro.

	CHRONOLOGY OF EVENTS		
CHRONOLOGI OI LVLINIS			
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 into Preliminary Engineering		
January 2011	Began Preliminary Engineering		
August 2011	Board authorized to solicit major D/B contract C0980		
October 2011	Issued RFQs for D/B contract C0980		
December 2011	Began Real Estate Acquisition		
March 2012	Completed PE and began Advanced PE		
April 2012	Board certification of Final EIS / EIR and adoption of project		
April 2012	Began Final Design - Advanced Utility Relocations (AUR)		
June 2012	FTA Record of Decision		
August 2012	Issued RFQs for D/B contract C0980		
January 2013	Issued RFPs for D/Build contract C0980		
March 2013	Completed Final Design - Advanced Utilities Relocation (AUR)		
May 2013	NTP for Construction Management Services contract MC070		
June 2013	Beginning of AUR contract C0981R Bid Period		
July 2013	Submitted TIFIA loan application		
July 2013	Submitted first draft FFGA application to FTA for review		
September 2013	Received proposals for D/B Contract C0980		

CHRONOLOGY OF EVENTS (Cont.)				
September 2013	Submitted second draft FFGA application to FTA, incorporating FTA comments			
October 2013	Submitted Application to FTA Requesting an FFGA			
November 2013	Started Emergency Generator Replacement Tank at 2 nd Street and Historic Broadway Station (LA Times Building) Issued "Notice of Intent to Award" letter to contract C0981R			
December 2013	contractor Pulice Construction Inc.			
January 2014	Awarded AUR contract C0981R to Pulice Construction Inc.			
February 2014	Issued Notice to Proceed for AUR Contract C0981R			
February 2014	FTA issued Full Funding Grant Agreement to Metro			
March 2014	Issued Amendment # 11 for D/B Contract C0980			
March 2014	Started Survey for AUR Contract C0981R			
April 2014	Metro Board approved the award of D/B Contract C0980 and established a LOP Budget			
May 2014	Awarded D/B Contract C0980 to Regional Connector Constructors, Joint Venture			
June 2014	Obtained possession of the Mangrove property form the City of Los Angeles			
July 2014	Issued Notice to Proceed for D/B contract C0980			
August 2014	C0980 D/B Contractor (RCC) began Final Design			
September 2014	Metro performed the ground-breaking ceremony for C0980 D/B Contract			
October 2014	EN077 Contractor, Arcadis, removed the underground storage tank at LA Times Parking Lot			
November 2014	C0981R AUR Contractor completed DWP power work at 1 st St. and Alameda			
December 2014	Metro completed Field Vibration Testing for existing Expo and Gold Lines			
January 2015	Demolish Buildings at 1 st /Central Station			
February 2015	Metro approved the Baseline Schedule for C0980 D/B Contract			
March 2015	RCC started Historic Broadway Station Site Move-In			

	PUDONOLOGY OF EVENTS (Comt.)		
CHRONOLOGY OF EVENTS (Cont.)			
April 2015	Metro terminated C0981R Contract for convenience		
May 2015	RCC started pile installation at Mangrove Launch Pit		
June 2015	RCC started decking for shoofly bridge (Pile Cap & Grade Beam)		
July 2015	DWP Water started installing 36" Water Valve at Alameda St.		
August 2015	RCC completed DWP Power work at Flower & 5th Street		
September 2015	RCC started Phase 2 DWP Power Relocation work at Broadway (Behind K Rail).		
October 2015	RCC started pile installation at 1 st /Central Station		
November 2015	RCC completed Central Ave Full Closure (Pile & Decking)		
December 2015	Metro Board approved the increase (\$131.8M) of the Project LOP Budget to \$1,589.9 million.		
January 2016	RCC began implementation of Bus Bridge # 1 (Shoofly Tie-In Work at Little Tokyo.		
February 2016	RCC began implementation of full closure at 2 nd /Broadway intersection.		
March 2016	RCC completed Bus Bridge # 1 (Shoofly Tie-In at Little Tokyo) work.		
March 2016	Excavation of 1 st /Central Station was initiated.		
April 2016	TBM (Tunnel Boring Machine) was delivered to the temporary storage site.		
May 2016	Closed 1st Street between Alameda and Central Streets. Opened northbound 1st East of Alameda Street.		
June 2016	RCC completed excavation at 1 st /Central Station Box		
June 2016	RCC began pile installation on west side of Flower Street between 4th and 5th Street		
July 2016	RCC initiated pile installation at Historic Broadway Station (West Hammer Head)		
July 2016	RCC Initiated CIP invert at 1 st /Central Station Box		
August 2016	RCC completed 36" waterline replacement at 1st/Alameda		
September 2016	RCC completed temporary decking at 1 st /Alameda intersection (Wye)		

October 2016 Metro performed TBM lowering ceremony October 2016 RCC completed CIP invert at 1st/Central Station Box November 2016 RCC completed CIP invert at Mangrove Launch Pit and Wye December 2016 RCC completed Phase 1, 2nd Street Decking in front of LA Times Bldg. January 2017 Metro Board approved a LOP Budget increase February 2017 RCC initiated TBM mining (1st – Left) March 2017 RCC completed TBM mining under JVP (first 500 ft.) March 2017 RCC completed temporary decking on Flower St. (between 4th and 5th) April 2017 RCC completed sub-invert at TBM retrieval pit April 2017 RCC completed CIP invert at Grand Av Arts/Bunker Hill Station Box May 2017 RCC completed water relocation work along Flower Street June 2017 RCC completed mining and broke through at Grand Av Arts/Bunker Hill Station Five-month full closure of 6th Street approved by LADOT, Caltrans and LADWP		CHRONOLOGY OF EVENTS (Cont.)
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May 2017 RCC completed temporary decking at Historic Broadway Station May 2017 RCC completed water relocation work along Flower Street June 2017 RCC completed water relocation work along Flower Street RCC completed mining and broke through at Grand Av Arts/Bunker Hill Station Five-month full closure of 6 th Street approved by LADOT, Caltrans	April 2017	RCC completed sub-invert at TBM retrieval pit
May 2017 RCC completed water relocation work along Flower Street Sune 2017 RCC completed mining and broke through at Grand Av Arts/Bunker Hill Station Five-month full closure of 6 th Street approved by LADOT, Caltrans	April 2017	RCC completed CIP invert at Grand Av Arts/Bunker Hill Station Box
June 2017 RCC completed mining and broke through at Grand Av Arts/Bunker Hill Station Five-month full closure of 6 th Street approved by LADOT, Caltrans	May 2017	RCC completed temporary decking at Historic Broadway Station
Hill Station Five-month full closure of 6 th Street approved by LADOT, Caltrans	May 2017	RCC completed water relocation work along Flower Street
11100 2017	June 2017	Hill Station
	June 2017	• • • • • • • • • • • • • • • • • • • •

CONSTRUCTION CONTRACTS

Description: Design-Build Contract

Contractor: Regional Connector Constructors

Contract No. C0980

Status as of: June 30, 2017

Work Completed:

Design

- Coordinated with Tribune for the overbuild structure
- 6th/Flower CIP vault and shoring design approved by
- SEM Resequencing 100% package approved
- DU12 Communication 100% package submitted

Construction

Tunneling

- Completed TBM skid through Grand Av Arts/Bunker Hill Station
- Launched TBM to mine from west end of Grand Av Arts/Bunker Hill Station

Broadway

- Continued Level 3 excavation at Historic Broadway Station Continued storm drain (Hobas) installation along 2nd Street
- Began demolishing existing storm drain at 2nd/Broadway

Completed tunnel eye (left tunnel) at TBM retrieval pit

- Completed traffic implementation and initiated power relocation work at 6th/Flower
- Continued excavation under decking on Flower Street (between $\mathbf{4}^{\text{th}}$ and $\mathbf{5}^{\text{th}}$ Streets)

Major Activities (In Progress):

Design

- Coordinate with Tribune for the overbuild structure
- Review and approve AFC package for Historic Broadway
- Support in feasibility assessment the 6th/Flower train control room.
- Preparation of street restoration design with City family
- Preparation of DU2 WYE Fan Plant and Flower Cut & Cover 100% design submittal
- Preparation of SEM Resequencing AFC package
- Preparation of DU3 Pedestrian Bridge 30% design
- Preparation of DU4 Civil Segment A 100% design
- Preparation of DU5 Civil Segment B 100% design submittal
- Review and approve DU12 Communications 100% design submittal

Construction

Tunneling

- TBM break through at TBM retrieval pit (4th/Flower)
- Initiate TBM extraction

2nd/Broadway

- Continue Level 3 excavation
- Continue storm drain (Hobas) installation along 2nd Street

2nd/Hope

Initiate concourse level SOG

Flower

- Pile installation on Flower Street (between 5th and 6th Streets)
- Excavation and utility hanging on Flower Street (between 4th and 5th Streets)
- Continue DWP Power relocation at 6th/Flower

Project-wide

- Geotechnical equipment installation and monitoring across the alignment
- Underground investigation potholing Hydrovac and exploratory trenching at various locations project-wide
- Preparation of submittals and traffic control plans, including weekly meetings with LADOT and City Council District 14

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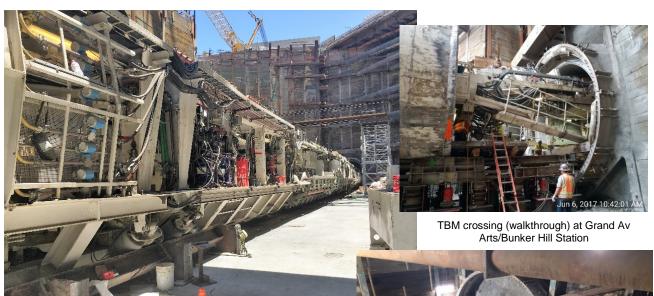
CONSTRUCTION CONTRACTS (Cont.)

Description: Design-Build Contract Contractor: Regional Connector Constructors	Contract No. C0980 Status as of: June 30, 2017
Areas of Concern:	Upcoming Interim Milestones: Design Du2 WYE Fan Plant and Flower Cut & Cover AFC package to be submitted Du4 and Du5 Civil AFC package to be submitted Du12 Communications AFC package to be submitted Construction 1st/Central/Tunneling Complete TBM assembly and test for second tunnel (Right) 2nd/Broadway Continue excavation at Historic Broadway Station Complete storm drain installation along 2 nd Street 2nd/Hope Complete concourse level SOG Flower Complete pile installation on Flower Street (between 5 th and 6 th Streets) Initiate temporary decking installation on Flower Street (between 4 th and 5 th Streets) Excavation and utility hanging on Flower Street (between 4 th and 5 th Streets) Continue DWP Power relocation at 6 th /Flower Project-wide Complete placement of geotechnical monitoring instrumentation along the alignment

CONSTRUCTION CONTRACTS (Cont.)

Description: Design-B Contractor: Regional Co	Contract No. C0980 Status as of: June 30, 2017						
Schedule Summary:		Original Contract Dates/Duration	Time Extension (CD)	Current Contract	Forecast	Variance CDs	
Date of Award:	5/6/2014	Notice to Proceed	07/07/14		07/07/14		
Notice to Proceed:	7/7/2014	Milestone 1:	10/22/20	150	03/21/21	02/28/22	-344
Original Contract Duration:	2430 CD	Milestone 2:	06/14/20		To be de	leted (Mod#74)	
		Milestone 5:	08/19/19		To be de	leted (Mod#74)	
Current Contract Duration:	2579 CD	Milestone 6:	09/18/19		To be de	leted (Mod#74)	
Elapsed Time from NTP:	1090 CD	Milestone 7:	10/10/15		To be de	leted (Mod#74)	
		Milestone 8:	8 Weekends	0	8 Weekends	8 Weekends	0
		Milestone 9A:	200 Days		To be de	leted (Mod#74)	
	Milestone 9B:	100 Days	To be deleted (Mod#74)				
	Milestone 10:	115 Days	To be deleted (Mod#74)				
	Milestone 11:	15 Days	To be deleted (Mod#74)				
		Milestone 12:	03/01/21	149	07/28/21	04/29/22	-275
Physical Percent Comp	Cost Summary:			\$ In millions			
Design	98.1%	1. Award Value: 927.2					
Construction 32.1% 2. Executed Modifications:			182.5				
		3. Approved Chang	ge Orders:			8.0	
* Note: Physical completion asse	4. Current Contract Value (1+2+3):			1,117.8			
mobilization, general mobilization	5. Incurred Cost: 512.5						

CONSTRUCTION PHOTOS



TBM in Grand Av Arts/Bunker Hill Station



LA County storm drain demo and removal at 2nd/Broadway



Hanging DWP power duct bank beneath Flower St. decking



Installing fiberglass rebar at tunnel eye



Utility Support Hanging at 2nd/Broadway



Preparation for Gantry Crane and TBM Retrieval

APPENDIX COST AND BUDGET TERMINOLOGY

Project Cost Descriptions

COMMITMENTS

The Original Project Budget established upon Board **ORIGINAL BUDGET**

approval of Life-of-Project (LOP) budget, plus Finance

Costs.

The Original Budget plus all approved budget **CURRENT BUDGET**

amendments. Also referred to as Approved Budget.

The total of actual contracts awarded, executed change orders or amendments, approved work orders of Master Cooperative Agreements, and other Metro actions which

have been spent or result in the obligation of specific

expenditures at a future time.

The total dollar amount of funds expended by Metro for contractor or consultant invoices, third party invoices, **EXPENDITURES** staff salaries, real estate and other expenses that is

reported in Metro's Financial Information System (FIS).

The best estimate of the final cost of the project when all checks have been issued and the project is closed out. CURRENT FORECAST 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**

RIGHT OF WAY

VEHICLES

SERVICES

Includes construction contracts. Cost associated with CONSTRUCTION

Guideways, Stations, Southwestern Yard, Sitework/Special Conditions and Systems.

Includes purchase cost of parcels, easements, right-of-

entry permits, escrow fees, contracted real estate

appraisals and tenant relocation.

Includes the purchase of LRT vehicles and spare parts

for the project.

Includes design engineering, project management **PROFESSIONAL**

assistance, construction management support services, legal counsel, agency staff costs, and other specialty

consultants.

A fund established at the beginning of a project to CONTINGENCY

provide for anticipated but unknown additional costs that

may arise during the course of the project.

Includes all revenue receivable to the Metro as a direct result of project activities. This includes cost sharing PROJECT REVENUE

construction items, insurance premium rebates, and the

like.

APPENDIX

LIST OF ABBREVIATIONS AND ACRONYMS

AFC Approved for Construction

APE Advanced Preliminary Engineering

ATC Automatic Train Control

ATSAC Automated Traffic Surveillance and Control

AUR Advanced Utility Relocation

BAFO Best and Final Offer

BIM Building Information Modeling

CADD Computer Aided Drafting and Design CALTRANS California Department of Transportation

CCTV Closed Circuit Television

CD Calendar Dav

CEQA California Environmental Quality Act

CM Construction Manager

CMAQ Congestion Mitigation and Air Quality Improvement Program

CN Change Notice
CO Change Order
COLA City of Los Angeles
CPM Critical Path Method

CPUC California Public Utilities Commission CQWP Construction Quality Work Plan

CR Camera Ready

CSPP Construction Safety Phasing Plan
CTC California Transportation Commission

CUD Contract Unit Description

DB Design Build DBB Design Bid Build

DDR Design Deviation Request
DOT Department of Transportation
DWP Department of Water and Power
ECI Engineering Change Instruction
EIR Environmental Impact Report
EIS Environmental Impact Statement

FAR Federal Acquisition Regulation

FD Final Design

FEIS Final Environmental Impact Statement
FEIR Final Environmental Impact Report
FIGA Full Funding Grant Agreement
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 ABBREVIATIONS AND ACRONYMS (Cont.)

FTA Federal Transit Administration

FTE Full Time Equivalent GBN Ground Borne Noise

GBR Geotechnical Baseline Report

GDSR Geotechnical Design Summary Report

HABS/HAER Historical American Building Survey / Historical American Engineering

Record

IFB Invitation for Bid

IPMO Integrated Project Management Office

JV Joint-Venture LA Los Angeles

LABOE
LABOS
LABSL
LACFCD
Los Angeles Bureau of Engineering
Los Angeles Bureau of Sanitation
Los Angeles Bureau of Street Lighting
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

LAFD
Los Angeles Fire Department
LAPD
Los Angeles Police Department
LNTP
Limited Notice to Proceed
LONP
Letter of No Prejudice

LOP Life-of-Project

LPA Locally Preferred Alternative

LRT Light Rail Transit

LRTP Long Range Transportation Plan

LRV Light Rail Vehicle

MCA Master Cooperative Agreement

MIS Major Investment Study

MMRP Mitigation Monitoring and Reporting Program

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
OCR Overhead Conductor Rail
OCS Overhead Catenary System

OSHA Occupational Health and Safety Administration

PA/VMS Public Address/Visual Messaging Sign

PCTL Precast Concrete Tunnel Lining

APPENDIX

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

PE Preliminary Engineering

PEER Permit Engineering Evaluation Report

PIP Project Implementation Plan
PLA Project Labor Agreement

PM Project Manager

PMOC Project Management Oversight Consultant

PMP Project Management Plan

PR Project Report

PSR Project Study Report QA Quality Assurance

QAR Quality Assurance Report

QC Quality Control

QPSR Quarterly Project Status Report

RAMP Real Estate Acquisition Management Plan

RCC Regional Connector Contractors

RCMP Risk and Contingency Management Plan

RFC
RFP
Request for Change
Request for Proposals
RHA
Risk Hazard Analysis
ROC
Rail Operations Center
ROD
Record of Decision

ROM Rough Order of Magnitude RON Resolution of Necessity

ROW Right-Of-Way

RSD Revenue Service Date

SCAQMD Southern California Air Quality Management District

SCADA Supervisory Control and Data Acquisition

SCC Standard Cost Category

SCG Southern California Gas Company

SEIS Supplemental Environmental Impact Statement

SHPO State Historic Preservation Office

SIT System Integration Testing
SOE Support of Excavation
SOQ Statement of Qualification

SOV Schedule of Values
SOW Statement of Work
SP Special Provision

SSMP Safety and Security Management Plan

TBD To Be Determined
TBM Tunnel Boring Machine
TCC Train Control Center

TCE Temporary Construction Easement

TCP Traffic Control Plan

TIFIA Transportation Infrastructure Finance and Innovation Act
TIGER Transportation Investment Generating Economic Recovery

APPENDIX LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

TPSS	Traction Power Substation
TVA	Threat Vulnerability Analysis
TVM	Ticket Vending Machine
UFS	Universal Fare System
UST	Underground Storage Tank
USDOT	United States Department of Transportation
VE	Value Engineering
WBS	Work Breakdown Structure
WP	Work Package
WTCP	Worksite Traffic Control Plan
YOE	Year of Expenditure