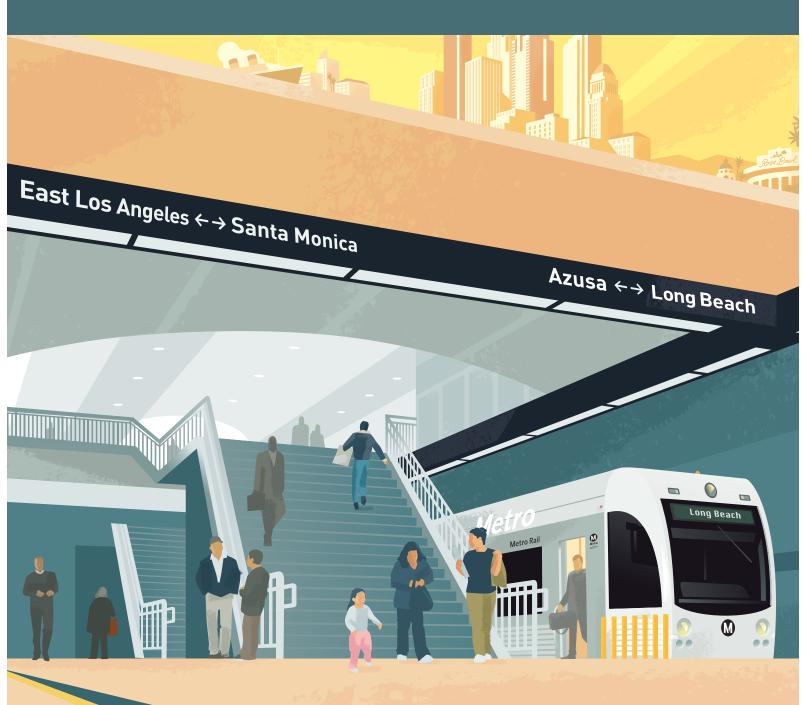
Regional Connector Transit Corridor





REGIONAL CONNECTOR TRANSIT CORRIDOR 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).

September 2016

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PROJECT SUMMARY

As of September 2016

OCATION: Downtown Los Angeles DESIGN CONSULTANT: Connector Partnership JV CONSTRUCTION MANAGEMENT CONSULTANT: ARCADIS CONTRACTOR: Regional Connector Constructors, Joint Venture

Utility Hanging in Tie-back Removal Pit





- Completed cap beams and decking at Wye, re-opened 1st/Alameda intersection and implemented "Steady State"
- Completed Installation of top mat of rebar for station invert at 1st/Central
- Compensation grouting preparations along 2nd St. continued
- TBM shaft excavation and SOE at Mangrove Yard continued
- Excavation and installation of walers and struts at the Wye continued
- 2nd/Spring LADWP water relocation continued
- Pile installation at 2nd/Broadway continued
- Installation of deck beams at 2nd/Broadway intersection continued
- Electrical and communication duct bank installation at 2nd/Broadway
- Relocation/protection of power and communication assets in 2nd/Broadway Station area continued
- Installation of tie-backs, struts and walers at 2nd/Hope SOE continued
- Water relocations along Flower Street continued Pile installation on west side of Flower St. continued
- Cap beam installation on Flower St. continued
- Excavation and utility hanging at the Tie-back Removal Pit began
- Geotechnical monitoring equipment installation across the project alignment continued

EXPENDITURE STATUS (\$ In Millions)

EXPENDED CURRENT PERCENT BUDGET **AMOUNT EXPENDED ACTIVITIES** DESIGN \$132.9 \$117.5 88.4 RIGHT-OF-WAY \$110.5 \$68.9 62.3 CONSTRUCTION \$1.079.6 \$340.6 31.5 OTHER \$276.0 \$98.7 35.8 TOTAL \$1,598.9 39.1%

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

Note: Expended amounts are through 08/31/2016.

SCHEDULE ASSESSMENT

	MAJOR SCHEDULE ACTIVITIES	PRIOR PERIOD	CURRENT PLAN	VARIANCE WEEKS						
	Environmental									
%	FEIS / FEIR	N/A	04/26/12	Complete						
	SEIS Flower St.	N/A	12/18/15	Complete						
%	Design									
	PE Notice to Proceed	N/A	01/04/11	Complete						
%	Final Design complete	05/31/17	05/31/17	0						
	Note: Completion of systems design is now projected for end of December 2016. No adverse impact to the overall schedule is anticipated from these design delays.									
%	adverse impact to the o	verali scriedui	e is anticipated	d from these design delays.						
	Right-of-Way									

All parcels available	08/15/18	08/15/18		0
Note: ROW dates are a	djusted to refl	ect the latest l	D/B Contractor's	coordinated Need
Dates. Duco Yard need	date is in Au	gust 2018.		

Construction - Design / Build Contract

		Constitution Design / Bund Contract						
		Notice to Proceed	07/07/14	07/07/14	Complete			
AREAS OF CONCERN		Construction complete	05/15/21	05/02/21	-2			
	Schedule mitigation measures are being implemented across the	Revenue Service Date	07/28/21	07/15/21	-2			

- alignment to address continuing and new delays precipitated by utility relocations. Major street and intersection closures are being coordinated with LADOT, LABOE, and Council District 14 to facilitate construction plans and schedules. Additionally, Metro and RCC are coordinating with DWP and third party utility owners on utility design and relocation issues along Flower, Broadway, and Alameda streets to advance construction fronts at these locations.
- Schedule recovery measures notwithstanding, schedule float and flexibility is minimal; opportunities for improvement continue to be reviewed.
- Delays and reduced productivity along Flower St. continue to be experienced; work hour and access constraints are driving
- Studies continue regarding the design solution(s) for accommodating higher than anticipated elevation of DWP power assets at 6th/Flower. Minimizing impacts to area stakeholders, traffic flows and project schedule are driving considerations.

ROW ACQUISITION	PLAN	CERTIFIED	ACQUIRED	REMAINING
PERMANENT PARCELS	5	5	4	1*
TEMPORARY PARCELS	31	16	15	3*
TOTAL PARCELS	36	21	19	4**

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

Note: *The project is reflecting an approximate seven-month delay to the RSD due to differing site conditions related to underground utilities

CRITICAL ACTIVITIES / 3 MONTH LOOK AHEAD

- 100% design packages for all three stations, bored tunnel, SEM cavern and systems: review of the related AFCs
- Pour concrete for invert at 1st/Central Station
- Begin station excavation at 2nd/Broadway Station
- Begin "Steady State" implementation on Flower St.
- Decking installation on Flower, north of 5th St.
- Secure Sunday work variance for Flower St operations
- Resolve Fire Life Safety (FLS) issues including emergency ventilation design and egress
- Reconcile path-forward for schedule and costs

PROJECT OVERVIEW & STATUS

The Regional Connector Transit Corridor 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 is scheduled to become operational in two phases: one to tie into the existing Eastside Gold Line along 1st Street; and subsequently to the existing Gold Line to Pasadena along Alameda Street toward Union Station. Revenue Service Date (RSD) is forecasted for July 2021(FFGA planned RSD is May 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 Atlantic Boulevard. One portal will be located northeast of the Little Tokyo/Arts District Station and tracks. This portal will rise to the north within the City of LA DWP Maintenance Yard and connect to the existing LRT bridge over the US-101 freeway, allowing a connection to the Metro Gold Line to Pasadena. The portal will be connected to the 1st and Alameda junction by a new cut and cover box structure crossing beneath Temple Street and the parcel on the northeast corner of 1st and Alameda Streets, running immediately east of the existing Little Tokyo/Arts District Station and tracks. The second 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 Atlantic Boulevard.

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 in the amount of \$927,226,995; Notice to Proceed (NTP) to Design Builder, Regional Connector Constructors, 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 C0980, D/B contractor.

PROJECT OVERVIEW & STATUS (Cont.)

Construction

Excavation and related structural support remained the prominent work activities throughout the alignment with said action seen at the Mangrove Yard, "Wye", guideways along 1st and Flower Streets, as well as the 2nd/Broadway, 2nd/Hope and 1st/Central Stations. Offsite preassembly of the TBM continues in advance of the lowering of major components set to begin in November. Placement of settlement monitoring instrumentation continued throughout the alignment. Water relocations continued along Flower Street as did power relocation and protection efforts around the 2nd/Broadway Station area.

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 Corridor 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

Four Light Rail Vehicles (LRVs) for the Project will be procured and delivered by Kinkisharyo International, LLC under Contract P3010. The base contract includes 235 LRVs and options which will add up to 157 LRVs to the total. The four LRVs for the Regional Connector Project are currently in Option 2 of the P3010 Contract. Manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop.

Program Management

The current budget was established in the December 2015 session of the Metro Board. The Board revised the Life-of-Project (LOP) budget to \$1.559 billion (this includes Finance Charges) for the RCTC Project No. 860228 and maintained the LOP budget of \$39,991,168 for RCTC Project No. 861228 for Concurrent Non-FFGA Project activities.

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 OVERVIEW & STATUS (Cont.)

Project commitments through *September* 2016 increased by \$1.19 million to \$1.38 billion or 88.46% of the Current Budget. The increase reflects the Board adopted FY17 budget. Project expenditures through *August* 2016 are \$603.0 million or 38.7% of the budget. The expenditures to date are for 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.

The project master schedule forecasts July 2021 for Revenue Service, which will be executed in two phases. Phase I Revenue Service Date to Eastside is in March 2021 and Phase II Revenue Service Date to Pasadena is in July 2021.

A comprehensive risk register is reviewed and updated on a monthly basis for the current phase of the project. Risk Management reporting will continue to be on a quarterly basis. Metro is targeting an updated risk register in *October* 2016.

MANAGEMENT ISSUES / OPPORTUNITIES

Concern No.1: Utility relocations have been delayed, impacting RCC's schedule.

Status/Action Metro and RCC are collaborating on a schedule plan which includes

significant re-sequencing of work and additional measures to complete the project expeditiously. Elements of this plan are dependent upon obtaining various street closures for station and guideway construction.

Approvals of such closures are being vigorously pursued.

Concern No. 2: Resource limitations impact the City's ability to review multiple Traffic

Control Plans, therefore impacting construction progress on Flower and

2nd Streets.

Status/Action Metro is working with RCC, LADOT and BOE to actively expedite

submissions, quality reviews, and approvals of required plans.

Concern No. 3: Delays and reduced productivity along Flower St. continue to be

experienced; work hour constraints and permit processing are driving

causes.

Status/Action Metro is aggressively pursuing work hour variance for 55-hour weekend

closures for decking work.

Opportunity No. 1: Metro is working with RCC and Operations to identify alternate

sequencing to complete the Wye construction and commissioning

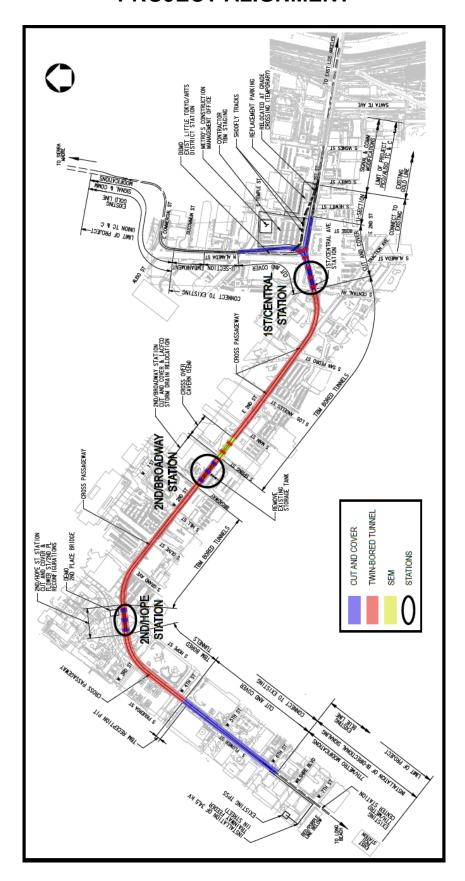
earlier, while minimizing impacts from bus bridges.

Status/Action Collaboration between Metro and RCC continues to establish plans and

sequences to affect the efficiencies sought. Schedule drafts are

anticipated in October 2016.

PROJECT ALIGNMENT



BASE PROJECT SCOPE

Engineering

This phase consists of Preliminary Engineering (PE), Advanced PE (APE) and Final Design. During Preliminary Engineering, the Design Consultant, 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 Engineering Design Consultant 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 D/B Contractor Team as part of the C0980 Contract.

Metro Furnished Equipment

Metro is procuring Light Rail Vehicles and Universal Fair System (UFS) equipment. Four Light Rail Vehicles for the Project 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. UFS equipment 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 Design Build (C0980) Contractor as follows:

Third Party Advanced Utility Relocations

A number of utility owners have already relocated many of their assets and will continue to do so through early 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 at the following locations:

- Flower Street cut-and-cover tunnel box
- 2nd/Hope Station box area
- 2nd/Broadway Station box area
- 1st/Central Station box area and Wye Structure

BASE PROJECT SCOPE (Cont.)

Contract C0980 Regional Connector Design Builder

This is the largest construction 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 has to 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 as well adding 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.

<u>Contract MCO70 – Construction Management Support Services</u>

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. Additionally, the Metro Board approved a contract modification for Arcadis to fund services through FY 2017.

BASE PROJECT SCOPE (Cont.)

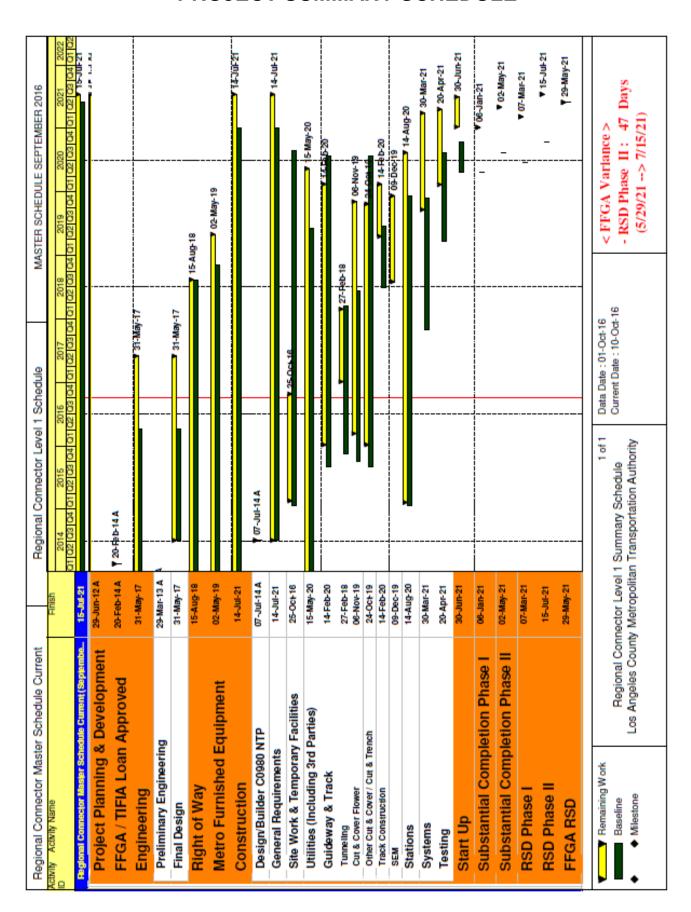
<u>Contract E0119 – Preliminary Engineering And Design Support Services During Construction</u>

Metro awarded this contract to The Connector Partnership, a joint venture between AECOM, Inc. and Parsons Brinkerhoff (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. Action to extend funding through FY17 was approved by the Metro Board on May 26, 2016.

KEY MILESTONES SIX- MONTH LOOK AHEAD

	Milestone Date	Sep-16	Oct-16	Nov-16	Dec-16	Jan-16	Feb-17	
DU03A SEM/Crossover - AFC Submittal	09/06/16							
Complete 2nd/Broadway DWP Power Intercepts and Cable (Phase 2)	09/09/16	\triangle						
1st/Central Station Package - AFC Submittal	09/15/16							
Complete WYE Temp Decking (WTCP Stage 2.3)	09/23/16							
2nd/Broadway Station Package - 100% Design Submittal	09/23/16							
2nd/Hope Station Package - AFC Submittal	10/14/16							
Civil Segment A (Flower to Hope) - 85% Design Submittal	10/14/16							
Start Flower Street Decking (North of 5th)	10/15/16							
Complete Temp Decking at 2nd/Broadway West Hammer Head	10/15/16							
End of 2nd/Broadway Intersection Full Closure / Start Mid Block Closure	10/15/16							
TBM Lowering Ceremony	10/19/16		•					
2nd/Broadway Station Package - AFC	11/29/16							
Complete WYE Intersection Excavation	11/07/16							
Complete TBM Launch Pit Mud Mat	11/07/16							
Complete WYE CIP Invert	11/22/16							
LADOT Approve Flower South SOE Traffic Control Plan	12/07/16							
Civil Segment B (Broadway to 1st/Central) - 85% Design	12/11/16							
Complete 2nd/Hope Excavation	12/29/16							
Initiate TBM Mining	01/03/17							
Complete Flower St Decking (North of 5th)	01/08/17							
Complete Flower St Water Line (South of 5th)	01/27/17							
Initiate 2nd/Broadway Station Excavation	02/13/17							
Civil Segment B (Broadway to 1st/Central) - 100% Design	02/28/17							
MTA Staff MTA Board Action								
Other Agencies Contractors	Other Agencies Contractors Design Consultant						ractor	
"A" following date is actual and completed	* New							

PROJECT SUMMARY SCHEDULE

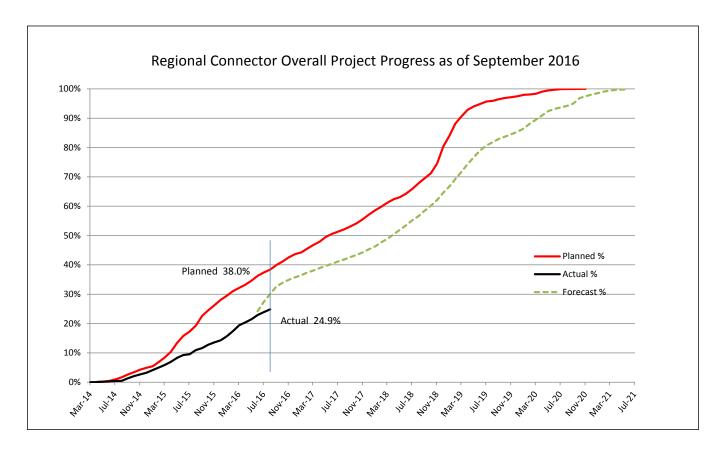


SCHEDULE MEASUREMENTS

	Status	Change from Last	Comment
Forecast Revenue Service	7/15/2021	13 CD	Schedule Recovery Measures and Acceleration plans are being implemented
TIFIA Revenue Service	5/29/2021	None	
FFGA Revenue Service	5/29/2021	None	
Final Design Progress:			
Contract C0980	94.5%	0.3%	13 months Behind
Construction Contracts Progress:			
Contract C0981R & C0980	19.8%	1.0%	7 months behind (Compared to the Contract Substantial Completion)

Note: Method of 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) including executed Modifications and change orders.

PROJECT PROGRESS STATUS



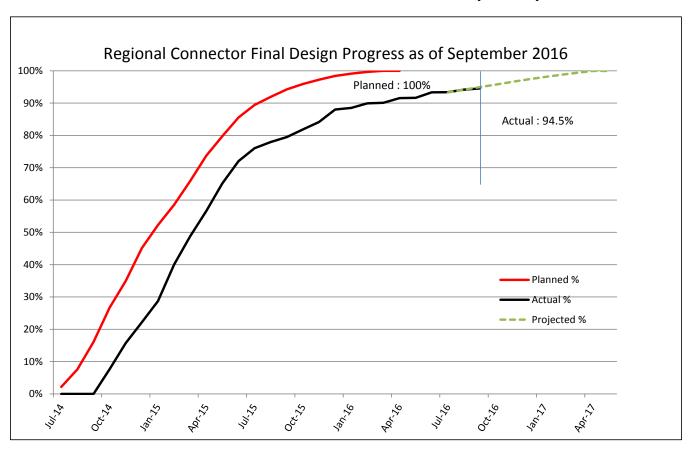
The above progress curve is based on planned expenditures of C0980 (Design- Build and C0981 (AUR) Baseline Schedule against their actual expenditures.

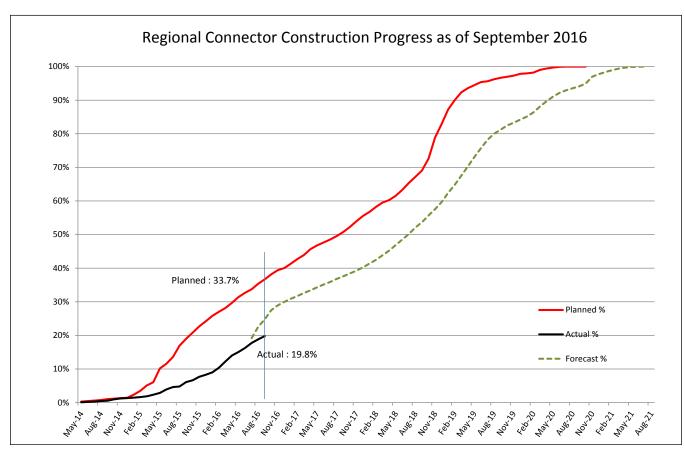
The cumulative overall project progress for C0980 and C0981R Contract is 24.9%.

Final Design for C0980 commenced upon MTA issuing NTP on July 7, 2014. Cumulative final design progress is *94.5*% and the cumulative construction progress is *19.8*%.

Note: Method of 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) including executed Modifications and change orders.

PROJECT PROGRESS STATUS (Cont.)





MAJOR EQUIPMENT DELIVERY STATUS

Tunnel Boring Machine

RCC, the design-builder for C0980, has designed, procured and delivered the tunnel boring machine (TBM) and equipment.

The TBM is currently at a temporary storage site where assembly preparations are underway.

Light Rail Vehicles

Four Light Rail Vehicles (LRVs) for the Project will be procured and delivered by Kinkisharyo International, LLC under Contract P3010. The four LRVs for the Regional Connector Project are currently in Option 2 of the P3010 Contract. LRV design and design reviews as well as manufacturing of the prototype vehicles continued this period. Manufacturer continued performing qualification and post shipment tests on prototype cars 1 and 2 at LACMTA's Green Line shop.

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

Procurement of UFS and TVM will commence after the design-builder completes the final design. Metro is coordinating with RCC for installation and testing schedules.

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

Activity Name	Early Finish	Need Date
FAB/DELIVER DECK BEAMS - 2ND/BROADWAY	5-Mar-16	4-May-16
FAB/DELIVER SHORING BEAMS - 2ND/BROADWAY	19-Feb-16	9-Nov-16
FAB/DELIVER SHORING BEAMS - 2ND/HOPE	19-Feb-16	18-May-16
FAB/DELIVER SHORING BEAMS - FLOWER ST	19-Feb-16	15-Mar-16
FAB/DELIVER PIPE STRUTS - 1ST/CENTRAL	15-Jan-16	19-Jan-16
FAB/DELIVER PIPE STRUTS - MANGROVE LAUNCH PIT	11-Feb-16	23-Jun-10
PROCURE PLATE PURCHASE ORDER	25-Apr-16	16-Dec-1
VERIFIED ASSEMBLY / TEST OF TBM AT FABRICATION SHOP	22-Jan-16	27-May-1
PROCURE PIPE SPECIALTY STORM DRAIN PIPE PURCHASE ORDER	15-Sep-16	12-Mar-2
PROCURE PIPE (PVC) PURCHASE ORDER	28-Mar-16	29-Apr-1
PROCURE PIPE (VCP) PURCHASE ORDER	28-Mar-16	29-Apr-1
FAB/DELIV OCS POLES / EQUIPMENT - SHOOFLY	5-Jan-16	29-Jan-1
FAB/DELIV TRAIN CONTROL CABLE - SHOOFLY	4-Jan-16	25-Jan-1
PROCURE PRECAST COMM STRUCTURE PURCHASE ORDER	10-Mar-16	12-Dec-1
PROCURE PLUMBING SUBCONTRACTOR	10-Mar-16	11-Aug-1
FAB/DELIVER WALES - 2ND/BROADWAY	26-Feb-16	1-May-1
FAB/DELIVER PIPE STRUTS - 2ND/BROADWAY	26-Feb-16	1-May-1
FAB/DELIV TBM MACHINE TO SITE	21-Feb-16	22-Aug-1
PROCURE BALLASTED TRACK - NORTH ALAMEDA LEG	20-Jul-16	9-Feb-2
PROCURE NEW 115RE RAIL - STANDARD RAIL	26-May-16	12-Aug-1
PROCURE NEW 115RE RAIL - HIGH STRENGTH RAIL	26-May-16	12-Aug-1
PROCURE RAIL - JOBWIDE	26-May-16	12-Aug-1
PROCURE SPECIAL TRACK - JOBWIDE	26-May-16	4-Oct-1
VERIFIED TBM SHIPPED TO SITE	22-Feb-16	23-Aug-1
FAB/DELIVER WALES - FLOWER ST	8-Apr-16	12-Jun-1
FAB/DELIVER PIPE STRUTS - FLOWER ST	8-Apr-16	12-Jun-1
FAB/DELIVER DECK BEAMS - FLOWER ST	9-May-16	8-Jul-1
FAB/DELIV OCS POLES / EQUIPMENT	14-Aug-17	17-Dec-1
FAB/DELIV OCR FOR TUNNEL	14-Aug-17	20-Jan-2
PROCURE MSE PANEL PURCHASE ORDER	1-Jul-16	3-Dec-2
PROCURE REBAR - FLOWER ST C/C	5-May-16	3-Jul-1
PROCURE HDPE - FLOWER ST C/C	5-May-16	15-Jun-1
**PROCURE RAIL - FLOATING SLAB MATERIALS	29-Jul-16	1-Aug-1
FAB/DELIVER WALES - 2ND/HOPE	20-May-16	24-Jul-1
FAB/DELIVER PIPE STRUTS - 2ND/HOPE	20-May-16	24-Jul-1
FAB/DELIV LIGHT FIXTURES - CENTRAL STA	5-Aug-16	15-Apr-2
FAB/DELIV EDGE LIGHTING - CENTRAL STA	3-Oct-16	20-Feb-2
FAB/DELIV GLAZING SPIDERS - ALL STATIONS	12-Sep-16	6-Apr-2
PROCURE LANDSCAPING SUBCONTRACTOR	5-Oct-16	18-Jun-2
FAB/DELIV LIGHT FIXTURES - BROADWAY STA	14-Nov-16	15-Apr-2
FAB/DELIV EDGE LIGHTING - BROADWAY STA	13-Jan-17	26-May-2
FAB/DELIV LIGHT FIXTURES - HOPE STA	21-Nov-16	22-Apr-2

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

Activity Name	Early Finish	Need Date
FAB/DELIV EDGE LIGHTING - HOPE STA	20-Jan-17	26-May-20
PROCURE ARCHITECTURAL PRECAST PAVER SUBCONTRACTOR	21-Nov-16	6-Mar-20
PROCURE GRANITE STONEWORK SUBCONTRACTOR	21-Nov-16	29-Jun-20
PROCURE MASONRY SUBCONTRACTOR	21-Nov-16	9-Sep-19
PROCURE PRECAST STRUCTURAL ELEMENTS SUBCONTRACTOR	21-Nov-16	7-Apr-20
PROCURE ARCHITECTURAL CONCRETE PAVING SUBCONTRACTOR	21-Nov-16	23-Mar-20
PROCURE DOORS & HARDWARE SUBCONTRACTOR	21-Nov-16	9-Jan-20
PROCURE DRYWALL & FRAMING SUBCONTRACTOR	21-Nov-16	30-Jun-20
PROCURE ESCALATORS SUBCONTRACTOR	21-Nov-16	25-May-18
PROCURE FIRE PROTECTION SUBCONTRACTOR	21-Nov-16	6-Nov-18
PROCURE FLOORING SUBCONTRACTOR	21-Nov-16	23-Jul-20
PROCURE GLAZING SUBCONTRACTOR	21-Nov-16	16-Mar-20
PROCURE HVAC SUBCONTRACTOR	21-Nov-16	18-Oct-19
PROCURE METAL CEILING SUBCONTRACTOR	21-Nov-16	27-Feb-20
PROCURE PAINT SUBCONTRACTOR	21-Nov-16	20-Feb-20
PROCURE SHEET METAL SUBCONTRACTOR	21-Nov-16	29-Apr-20
PROCURE SPRAY ON ACCOUSTICAL FINISH SUBCONTRACTOR	21-Nov-16	23-Jan-20
PROCURE STAINLESS STEEL SUBCONTRACTOR	21-Nov-16	8-Jan-20
PROCURE STATION SIGNS SUBCONTRACTOR	21-Nov-16	17-Jul-20
PROCURE STEEL (PERMANENT) SUBCONTRACTOR	21-Nov-16	12-Feb-20
PROCURE TERRAZZO SUBCONTRACTOR	21-Nov-16	10-Jul-20
PROCURE TILE SUBCONTRACTOR	21-Nov-16	24-Jan-20
PROCURE FLUID APPLIED WATERPROOFING SUBCONTRACTOR	21-Nov-16	23-Dec-19
PROCURE ELEVATORS SUBCONTRACTOR	21-Nov-16	22-Aug-18
FAB/DELIV EMERGENCY VENTILLATION FANS - CENTRAL (4)	30-Jun-17	13-May-20
FAB/DELIV EMERGENCY BOOSTER FANS (12)	30-Jun-17	20-May-20
FAB/DELIV EMERGENCY VENTILLATION FANS - BROADWAY (4)	30-Jun-17	13-May-20
FAB/DELIV EMERGENCY VENTILLATION FANS - HOPE (4)	30-Jun-17	13-May-20
ELEVATOR COORDINATION DRAWINGS - 1ST/CENTRAL	9-Feb-17	10-Nov-18
ESCALATOR COORDINATION DRAWINGS - 1ST/CENTRAL	9-Feb-17	13-Aug-18
**ASSEMBLY OF THE TBM AND BACKUP EQUIP / INST FIRST 10 RINGS	8-Dec-16	14-Nov-16
FAB/DELIV 2ND/HOPE TPSS	21-May-18	23-May-19
FAB/DELIV 2ND/HOPE UNIT SUBSTATION AND TRANSFORMER	25-Aug-17	13-Mar-20
FAB/DELIV 2ND/BROADWAY UNIT SUBSTATION AND TRANSFORMER	25-Aug-17	18-Feb-20
FAB/DELIV HIGH VOLTAGE DISCONNECT - 1ST & CENTRAL	29-Mar-17	6-Dec-19
FAB/DELIV TRAIN CONTROL CABLE	27-Dec-17	27-Dec-18
FAB/DELIV ELEVATORS - 1ST/CENTRAL	9-Feb-18	2-Dec-19
ELEVATOR COORDINATION DRAWINGS - 2ND/BROADWAY	30-Apr-17	29-Jan-19
ESCALATOR COORDINATION DRAWINGS - 2ND/BROADWAY	30-Apr-17	1-Nov-18
FAB/DELIV ESCALATORS - 1ST/CENTRAL	9-Feb-18	25-Jun-20
FAB/DELIV ELEVATORS - 2ND/BROADWAY	30-Apr-18	29-Jan-20

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

Activity Name	Early Finish	Need Date
ELEVATOR COORDINATION DRAWINGS - 2ND/HOPE	19-Jul-17	23-Apr-19
FAB/DELIV ESCALATORS - 2ND/BROADWAY	30-Apr-18	15-Jan-20
ESCALATOR COORDINATION DRAWINGS - 2ND/HOPE	19-Jul-17	20-Jan-19
FAB/DELIV ELEVATORS - 2ND/HOPE	19-Jul-18	22-Apr-20
FAB/DELIV ESCALATORS - 2ND/HOPE	19-Jul-18	20-Jan-20
FAB/DELIV 2ND/BROADWAY TPSS	13-Feb-19	18-Feb-20
FAB/DELIV TRAIN CONTROL EQUIPMENT	14-Jan-19	14-Jan-20

CRITICAL PATH NARRATIVE

Critical Path (C0980):

The current forecast for the Revenue Service Date is July 15, 2021 and is 47 days behind the FFGA date of May 29, 2021. The critical path was improved by two (2) weeks due to the TBM Launching being rescheduled to early January 2017; after the holiday period.

The critical path is currently running through the *excavation and invert pour* at the Wye. Upon the completion of the critical activities at the Wye, the critical path continues through the tunnel excavations. In conjunction with the Wye, the TBM *Launch* Pit excavation and invert pour at *Mangrove* are also critical. After TBM mining, the crossover SEM excavation and concrete at 2nd/Broadway will commence. Once the crossover structure is complete, the special track work installation will follow. The critical path continues through systems installation and testing from 1st/Alameda to 7th/Flower, which will be followed by systems integration testing (Eastside Gold Line Phase 1) and pre-revenue testing. Phase 1- Revenue Service to the Eastside Gold Line is forecast to be complete on March 7, 2021.

After Phase 1 Revenue Service is achieved, the critical path continues through the Alameda Street civil, structural, and systems work. Upon the completion of the systems work, the critical path continues through the systems integration testing (Pasadena Gold Line Phase 2) and pre-revenue testing. Phase 2 Revenue Service to the Pasadena Gold Line is forecast to be complete on July *15*, 2021.

PROJECT COST STATUS

REGIONAL CONNECTOR TRANSIT CORRIDOR PROJECT COST REPORT

DOLLARS IN THOUSANDS

SCC CODE		FFGA BUDGET	ORIGINAL BUDGET	"O''' BUDGEI I		COMMITMENTS		EXPENDITURES		CURRENT 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	243,830	0	229,499	4,337	45,923	0	243,910	80
20	STATIONS, STOPS, TERMINALS, INTERMODAL	354,268	219,477	0	229,779	0	223,779	1,513	14,823	385	230,234	455
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN, BLDGS	0	0	0	0	0	0	0	0	0	0	0
40	SITEWORK & SPECIAL CONDITIONS	141,785	422,453	301	527,824	301	495,743	5,842	278,290	856	538,920	11,096
50	SYSTEMS	69,667	73,848	-301	74,599	0	63,689	39	1,559	-20	74,149	-450
	CONSTRUCTION SUBTOTAL (10-50)	846,343	920,468	0	1,076,032	301	1,012,710	11,731	340,595	1,221	1,087,213	11,180
60	ROW, LAND, EXISTING IMPROVEMENTS	115,889	74,208	0	82,704	0	74,151	22	46,364	0	82,704	0
70	VEHICLES	16,275	16,275	0	16,275	0	16,275	0	1,678	0	16,275	0
80	PROFESSIONAL SERVICES	261,455	257,973	1,076	278,673	889	249,382	1,141	189,518	1,169	280,127	1,454
	SUBTOTAL (10-80)	1,239,963	1,268,925	1,076	1,453,685	1,190	1,352,519	12,894	578,156	2,391	1,466,319	12,634
90	UNALLOCATED CONTINGENCY	135,399	126,892	-1,076	71,656	0	0	0	0	-2,391	59,022	-12,634
100	FINANCE CHARGES	27,571	7,115	0	7,115	0	0	0	0	0	7,115	0
	TOTAL PROJECTS 460228 & 860228 (10-100)	1,402,932	1,402,932	0	1,532,456	1,190	1,352,519	12,894	578,156	0	1,532,456	0
	ENVIRONMENTAL/PLANNING - 400228		6,075	0	6,075			0	6,075			0
	ENVIRONMENTAL/PLANNING - 460228		18,125	0	20,425	0	20,425	28	18,777	0	20,425	0
	TOTAL PROJECTS 400228 & 460228 (EVN/PLAN'G)	0	24,200	0	26,500	0	26,500	28	24,852	0	26,500	0
	400228, 460228, 860228 TOTAL	1,402,932	1,427,132	0	1,558,956	1,190	1,379,019	12,922	603,008	0	1,558,956	0

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH 08/31/2016

PROJECT COST ANALYSIS - 860228

Original Budget:

The Original Budget of \$1.427 billion reflects the Board approved Life-of-Project (LOP) budget on April 24, 2014 plus Finance Charges of \$7.1 million.

Current Budget:

In December 2015 the Board approved an increase to the Life-of-Project (LOP) budget of \$131.8 million to \$1,558.9 million. The new budget includes \$7.1 million Finance Charges. Budgets have been assigned for Recovery Schedule modifications under SCC 10 and 40 from Allocated Contingency and unallocated contingency. There was a budget transfer from unallocated contingency and allocated contingency for SCC 40, 50 and 80 for Contract C0980 Modifications, *Project Management Support, Legal Services and Community Relations*.

Commitments:

Commitments increased by \$1.19 million this period to \$1.38 billion which represents 88.46% of the Current Budget. The increase is due to execution of Contract C0980 Modifications, *Project Management Support, Legal Services and Community Relations*.

Expenditures:

Expenditures are cumulative through *August* 2016. Expenditures increased by \$12.92 million this period for costs associated with C0980 Design Build contract, Engineering Management Support, Metro Project Administration, Construction Management Support Service, Legal Services, and Third Party Master Cooperative Agreements with the City of LA, Community Relations, ROW and Environmental Consultant Services. The \$603.0 million in expenditures to date represents 38.7% of the Current Budget.

Current Forecast:

The forecast includes pending and potential modifications.

PROJECT COST STATUS (Cont.)

CONCURRENT NON-FFGA ACTIVITIES (861228)

PROJECT COST STATUS BY FTA SCC

DOLLARS IN THOUSANDS

SCC CODE	Description		CURRENT BUDGET		COMMITMENTS		EXPENDITURES		CURRENT FORECAST		BUDGET / FORECAST VARIANCE
			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	0
20	STATIONS, STOPS, TERMINALS, INTERMODAL	-	0	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	0
40	SITEWORK & SPECIAL CONDITIONS	0	0	0	0	0	0	0	0	0	0
50	SYSTEMS	0	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	0
60	ROW, LAND, EXISTING IMPROVEMENTS	27,748	0	27,748	0	27,748	0	22,498	0	27,748	0
70	VEHICLES	0	0	0	0	0	0	0	0	0	0
80	PROFESSIONAL SERVICES	650	0	650	0	650	0	201	0	650	0
	SUBTOTAL (10-80)	38,878	0	38,878	0	38,878	0	22,699	0	38,878	0
90	UNALLOCATED CONTINGENCY	1,113	0	1,113	0	0	0	0	0	1,113	0
100	FINANCE CHARGES	0	0	0	0	0	0	0	0	0	0
	TOTAL PROJECTS 861228 (10-100)	39,991	0	39,991	0	38,878	0	22,699	0	39,991	0
	861228 TOTAL	39,991	0	39,991	0	38,878	0	22,699	0	39,991	0

NOTE: EXPENDITURES ARE CUMULATIVE THROUGH 08/31/2016

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 the Board approved Life-of-Project (LOP) budget on April 24, 2014 less the Unallocated Contingency of \$1.1 million. Right-of-Way (ROW) numbers shown under Commitment are the obligated numbers.

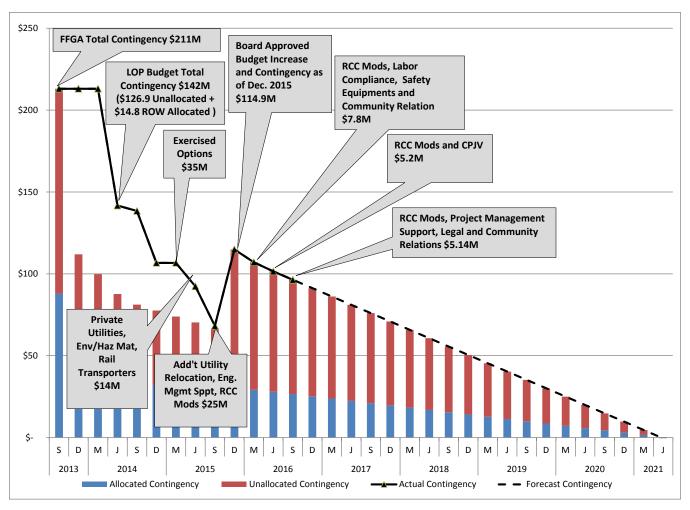
Expenditures:

Expenditures are cumulative through *August* 2016. There was no expenditure this month. The \$22.7 million in expenditures to date represents 56.8% of the Current Budget.

Current Forecast:

There was no change to the Forecast for this period.

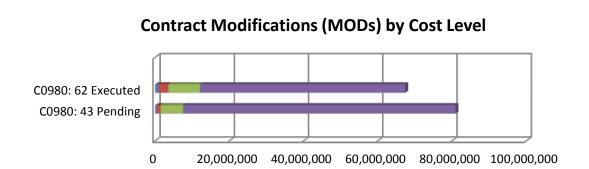
COST CONTINGENCY DRAWDOWN



COST CONTINGENCY DRAWDOWN ANALYSIS

In December 2015 the Board approved an increase to the Life-of-Project budget of \$131.8 million. The Regional Connector Transit Corridor Project budget of \$1.56 billion reinstated the total project cost contingency to \$114.9 million, \$80.3 million in "unallocated contingency", which is included as a separate Standard Cost Category (SCC) element and \$31.3 million in an "allocated contingency" to Design Build Contract, \$3.00 million allocated for Private Utilities, and \$0.25 million to Environmental Planning. This month there is a drawdown of \$301K from the Design Build Contract: \$301K from "allocated contingency". There was also drawdown of \$1.08 million for Project Management Support, Legal Services and Community Relations. The remaining project cost contingency for September 2016 is \$96.3 million.

SUMMARY OF CONTRACT MODIFICATIONS



	(
	62 Executed	43 Pending	Total
■ Under \$100K	798,696	425,100	1,223,796
■ \$100K to \$250K	2,781,832	1,052,800	3,834,632
■ \$250K to \$1M	8,434,237	6,013,353	14,447,590
Over \$1M	55,370,692	73,429,222	128,799,914
Total Contract MODs	67,385,457	80,920,475	148,305,932
Contract Award Amount	927,226,995	927,226,995	
% of Contract MODs	7.3%	8.7%	

Note:

- 1. Percent of Contract MODs equals the Total Contract MODs divided by the Contract Award Amount.
- 2. Pending Mods are under negotiations.
- 3. Contract C0980 Pending Changes include \$65.84M budget (AUR transfer scope, delay and impact cost on recovery schedule). \$19.3M was committed with a remaining balance of \$46.5M

Sixty-two (62) changes with total value of \$67.38 million have been executed since NTP of Contract C0980. An additional *forty-three* (43) changes, with a total estimated value of \$80.92 million are pending.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) STATUS

Contract C0980 Regional Connector Transit Corridor Design-Build

As of August 2016:

• DBE Goal - Design: 20%

• Current DBE Commitment - Design: \$11.3M (22.63%)

• Current DBE Participation: 23.01%

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

DBE Goal – Construction: 18%

Current DBE Commitment - Construction: \$157.1M (18%)

• Current DBE Participation: 17.45%

• Fifty-two (52) Construction DBE sub-consultants have been identified to date

PROJECT LABOR AGREEMENTS (PLA) STATUS

Contract C0980 Regional Connector Transit Corridor Design-Build

•	Targeted Worker Goal -	40.00%
	Targeted Worker Current Participation -	57.68%

Apprentice Worker Goal - 20.00%
 Apprentice Worker Current Participation - 19.22%

Disadvantaged Worker Goal - 10.00% Disadvantaged Worker Current Participation - 7.28%

FINANCIAL/GRANT STATUS

Status of Funds Anticipated

September 2016

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
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 ON 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 \$61,864,368 WAS SPLIT INTO TWO PARTS. RECEIVED THE FIRST DISBURSEMENT OF \$25.2 MILLION 4TH QUARTER FY2016. THE REMAINING BALANCE WILL BE DISBURSED WITHIN THE 2ND QUARTER OF FY 2017.
STATE PROP 1A HSRB	ALLOCATION REQUEST OF \$114.9M TO THE CTC WAS SUBMITTED ON JUNE 27, 2013. ALLOCATION WAS APPROVED ON JULY 18, 2014. FUNDS HAVE BEEN DRAW DOWN.
STATE PROP 1B PTMISEA	ALLOCATION REQUEST OF \$135.1M WAS APPROVED ON APRIL 24, 2013. FUNDS ARE AVAILABLE FOR DRAW DOWN.
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.

Status of Funds by Source

September 2016

SOURCE	(A) ORIGINAL BUDGET	(B) TOTAL FUNDS	(C) TOTAL FUNDS	(D) COMM	(D/B) ITMENTS	(E) EXPE	(E/B) NDITURES	(F) BILLED TO SOURC	(F/B) FUNDING
		ANTICIPATED	AVAILABLE	\$	%	\$	%	\$	%
FEDERAL - CMAQ	\$64.000	\$64.000	\$64.000	\$64.000	100%	\$40.934	64%	\$40.934	64%
FEDERAL - SECTION 5309 NEW STARTS	\$669.900	\$669.900	\$265.000	\$669.900	100%	\$174.292	26%	\$165.000	25%
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	\$61.864	\$160.000	100%	\$61.864	39%	\$61.864	39%
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%	\$121.919	90%
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	\$284.730	\$284.730	\$213.155	75%	\$68.354	24%	\$68.354	24%
MEASURE R	\$27.571	\$7.115	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
CITY OF LOS ANGELES	\$41.984	\$42.000	\$5.000	\$5.000	12%	\$5.000	12%	\$5.000	12%
LEASE REVENUE	\$64.247	\$64.247	\$0.000	\$0.000	0%	\$0.000	0%	\$0.000	0%
TOTAL	\$1,427.132	\$1,558.956	\$933.158	\$1,379.019	88.5%	\$603.008	38.7%	\$580.535	37.2%

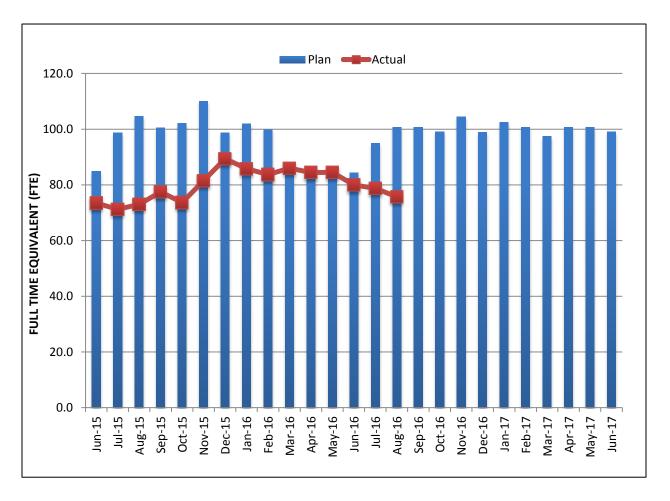
EXPENDITURES ARE CUMULATIVE THROUGH AUGUST 2016

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 TDA ADMINISTRATION, NB PROPOSITION A ADMINISTRATION, AND PROPOSITION 1B INTEREST (FOR A TOTAL OF \$.318M)

STAFFING STATUS TOTAL PROJECT STAFFING – METRO AND CONSULTANTS

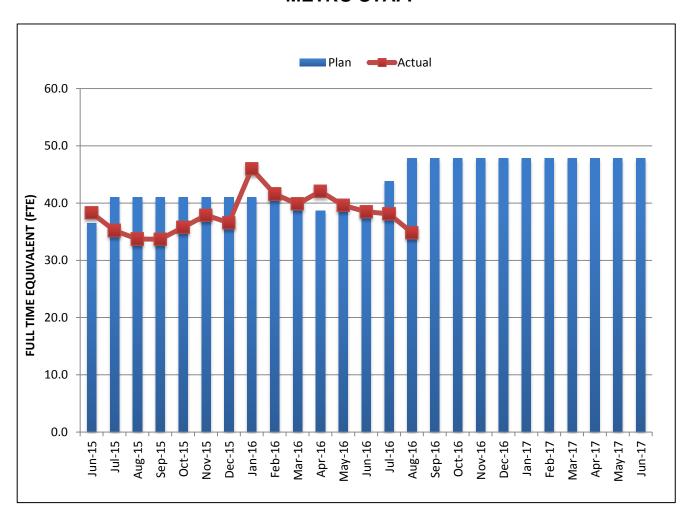


TOTAL PROJECT STAFFING

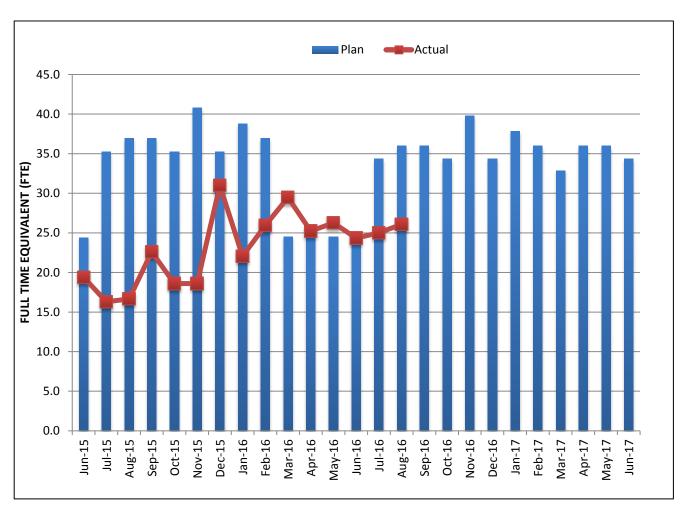
The overall FY16 Total Project Staffing plan averages 71.1 FTE's per month.

For *August* 2016, there were a total of *34.8* FTE's for MTA's Project Administration staff and *40.8* FTE's for consulting staff. The total actual project staffing for *August* 2016 was *75.7* FTEs versus FTE's planned (*100.6*).

STAFFING STATUS (Cont.) METRO STAFF



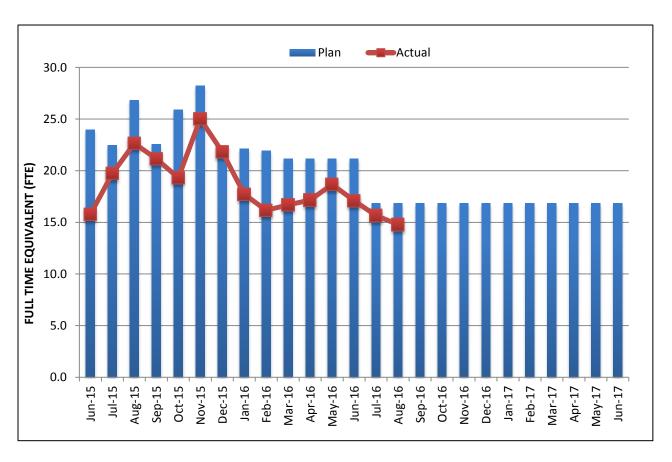
STAFFING STATUS (Cont.) CONSTRUCTION MANAGEMENTSUPPORT SERVICES CONSULTANT



Note:

- a) The variance in FTEs is due to Holiday's time off (Nov. 14), extensive weekend work (Dec.14) and additional field support staff.
- b) The Actual FTEs for the month are based on the FTE hours submitted in the invoice that month.

STAFFING STATUS (Cont.) ENGINEERING SERVICES CONSULTANTS



Note:

- a) The variance in FTEs is due to Holiday's time off and in support of C0980 submittals and C0981R beyond planned completion.
- b) The Actual FTEs for the month are based on the FTE hours submitted in the invoice of that month.

REAL ESTATE STATUS

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	1
TCE/ROE	14	5	3	6	6	4	1	5	
PE	3	3		3	3	2		3	
Sub Total Parcels:	34	21	7	23	23	12	5	19	2
Pedestrian Bridge	420-1, 420-2, 420-3								1
Mangrove Fan Plant	TBD								1
Grand Total Parcels:	36	21	7	23	23	12	5	19	4

REAL ESTATE ACQUISITION

Central Plants

 The Project obtained legal possession of the portion of the parcel required for the Project via a Stipulation for Possession effective July 1, 2015. The remaining property interests were acquired through an escrow which closed September 2nd and the condemnation was terminated.

LA Times – LA Times Square

Required real estate was transferred at no cost to Project on March 2, 2015.

<u>Japanese Village Plaza – "JVP"</u>

- Metro submitted an offer to Japanese Village Plaza in November 2013. JVP rejected the offer; MTA Board adopted a resolution to acquire property through the condemnation process in June 2014. Tenants have also been named in the condemnation lawsuit by the Judge in order to acquire the rights to survey the property, monitor grout pipe installation, and install and monitor deformation monitoring devices in tenant's spaces. This action required a new resolution of necessity be adopted by the MTA Board of Directors. The Board action took place at the April 2015 Board meeting and the Board adopted the Resolution of Necessity to include the tenants.
- Court approved Motion on Order of Possession for tunnel and grouting pipe easements against JVP on June 30, 2015. Order for Possession effective July 31, 2015.

REAL ESTATE ACQUISITION (Cont.)

- Court granted motion to acquire the right to conduct pre-construction surveys and grout pipe installation monitoring effective May 11, 2015. Currently working through Court referee to schedule surveys and grout pipe monitoring in tenant spaces - ongoing.
- Motion filed to obtain Order for Possession allowing the right to install and monitor the deformation monitoring devices in 19 tenant spaces. Court granted motion for OP on 8/19/15 and OP became effective September 21, 2015. Real Estate has obtained rights on 17 of the 19 tenant spaces via right of entry.
- Motion for Proposed First Amended Complaint for modified take area filed with Court to allow amended RON in March.
- Project rescinded Motion for Proposed First Amended Complaint for modified take area
 Project redesign did not require additional take area. Amended RON approved in April by Metro Board to allow for bifurcated tunnel easement.
- Awaiting Court reschedule of condemnation trial originally scheduled for September 2016.

<u>Volk</u>

- FTA and MTA approved the proposed settlement with Volk on the value of the property. Agreement has now been reached with the remaining tenants with regard to their Loss of Good Will claims. Final payments processed and complete by the end of September 2016.
- C0980 Contractor using site for laydown area.

Broad Collection

 Broad's appraisal review competed. Metro Real Estate negotiated a settlement Subject to approval at November/December Board. Seller changed terms prior to Board meeting – action pulled and negotiations continue. Awaiting comments from Broad's counsel on Agreement. Working to complete in July 2016.

ANAIBIV

Offer accepted. Owner's attorney reworked Purchase Agreement and deed language.
 Real Estate working with County Counsel to finalize contract and open escrow.
 Processing payments to allow recordation of easement. Easement recorded April 2016 and property rights transferred to Project.

Hull's Hope

 Received formal decertification of parcel from Project in June 2015. Revocation of RON approved at January 2016 Board hearing. Matter closed.

401 E Second St (Office Depot)

 Received formal decertification of parcel from Project in June 2015. Revocation of Offer letter sent in August 2015.

REAL ESTATE ACQUISITION (Cont.)

<u>City of Los Angeles (Mangrove Parcels) – No Change</u>

• Project is still considering potential change to the tunnel easement. Once decision is made, will advise City of Los Angeles and negotiate for the revised easement area.

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

• Appraisal completed of temporary and permanent Easement areas. Offer letter to be prepared and discussions commence by late September 2016.

(Former) CRA Parcels - Decertified 6/10/14

TBM (Temporary) Storage Yard:

Metro has acquired (leased) a parcel at 703 E. Commercial Street for the purpose of temporary storage at TBM. The lease period is from February-August with an option to extend it until December 2016.

QUALITY ASSURANCE STATUS

C0980 Regional Connector D/B

- Metro QA reviewed and provided comments on RCC's quality related submittals, construction work plans and milestone submittals. During the month September five (5) Construction Quality Work Plans (CQWPs) were submitted and reviewed. Three (3) additional submissions of inspection and test procedures (ITPs) are currently under review. Metro QA also reviewed test results for Portland Cement Concrete Lab, Asphalt Concrete, Tie-Back, Soils and Welding MT/UT. Contractor Tests performed to date are as follows:
 - 1. Portland Cement Concrete 28 day test results: 456 number accepted: 456
 - 2. Asphalt Concrete Density tests results: 152 number accepted: 152
 - 3. Soil Field Density tests performed to date: 161 number accepted: 161
 - 4. Welding MT/UT testing to date is: 3802 number accepted: 3802
- Metro QA reviewed qualification and certifications of contractor certified welding inspectors, material certifications for rebar and piping for the invert slab placement and a welding procedure for flux core arc welding (AWS D1.5) in support of the SOE welding. The welding procedure was written for another Metro project by an independent testing laboratory not approved by Metro QA for Regional Connector and therefore rejected.
- In September, Metro issued a formal report of QA surveillance of design work product quality, citing loss in effective configuration control to correctly track drawing revision numbers in conjunction with engineering change instructions (ECIs). RCC's formal response to Metro was received September 23, 2016 and will be taken up next month.
- Attended "Readiness Review" meetings with RCC.
- Performed oversight verification of RCC's design and construction activities, as well as ongoing monitoring of RCC's QA/QC activities.
- There were no Contractor NCRs opened or closed for the month of September.
- Metro QA opened NCR 001 to RCC in relation to Excavation Permit Issues. The NCR remains open pending resolution by RCC.
- A response from RCC for QAR C0980-QAR2016-S01-01 that resulted from surveillance C0980-SUR2016-01 was received by Metro QA. The response is currently being reviewed to determine what action, if any, needs to be taken.
- Through end of September 2016, Metro received a total of 1736 submittals and 145 Requests for Information (RFIs) from RCC, of which one (1) remains open. RFI-MTA-124 (regarding Metro approved method of heat-rise detection to automatically initiate emergency ventilation operation modes) to be rescinded by RCC. One new design deviation request opened (September 21); DDR–RC-2016-037 regarding operational temperature range for Metro's NVR actually narrower than the 40-degree to 140-degree range that MRDC specifies. RCC's monthly quality report for September 2016 forthcoming.

ENVIRONMENTAL STATUS

- Pre-Construction Surveys have been completed for 61 adjacent buildings, which include the following sensitive, historic, and/or Flower Street properties: Hikari Apartments, Japanese Village Plaza Parking, Japanese Village Plaza, Japanese Village Plaza Mall, Nakamura Tetsujiro Building, The Broad Art Foundation Museum, The Colburn School, General Petroleum, Superior Oil Co. Building, The California Club, the Los Angeles Central Library, Maguire Gardens and Underground Parking Structure, WDCH, LA Times Building, LA Times Mirror Building, Higgins Building, Cathedral of Saint Vibiana, Citibank Group (Hines Property), the Downtown YMCA, the Parking Structure (Commonwealth), the Westin Bonaventure, and the 2nd Street Tunnel. Pre-Construction Surveys for the City National Bank/Commonwealth Buildings are in-progress. These surveys are prepared for all properties within 21 feet of vibration producing construction activities to assess the building category and the potential for ground borne vibration to cause damage to the buildings.
- As of June 30, 2016, RCC has installed noise monitors at six Metro-approved locations along the Project alignment. The noise monitors will be instrumental in verifying compliance of construction-generated noise with the local ordinance and thresholds listed in the Project Contract Specifications.
- RCC has installed vibration monitors at WDCH, REDCAT, the Broad Museum, the
 Japanese Village Plaza, the LA Times, the Hikari Apartments, and the Colburn School.
 A Right-of-Entry is being negotiated for a vibration monitor to be installed at the
 Nakamura Tetsujiro Building. Locations are based on the Vibration Monitoring Plan to
 monitor vibration continuously during peak vibration generating construction.
- 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 has begun preparing the 15th Quarterly Mitigation Monitoring and Reporting Plan (MMRP) covering August 2016 to October 2016, and will submit the report to the FTA no later than November 14, 2016.
- RCC identified thirteen (13) trees requiring removal. RCC submitted a request a for a tree removal permit from Urban Forestry in August. The permit (1-123807031) was issued on September 19, 2016.

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.
- Continued outreach to impacted area stakeholders regarding construction activities: utility relocation; station excavation, pile and deck installation, and geotechnical instrumentation. Distributed thirteen (13) construction notices to the public through email and door-to-door, and made it available on the project website and social media outlets.
- Coordinated construction activities with forty-eight (48) stakeholders throughout the project.
- Two (2) Metro sponsored public meetings were held to provide updates on the progress of construction:
 - Regional Connector Community Leadership Council Committees: 1st/Central, and a joint meeting with the 2nd/Hope and Flower St/Financial District committees.
- Met with Little Tokyo leaders regarding Metro's compliance with the MMRP and status of mitigations.
- Five (5) presentations were made to neighborhood councils and homeowner associations in Bunker Hill and Little Tokyo/Arts District areas.
- Continued bi-weekly and weekly meetings with: L.A. City Councilmember District 14, the Mayor's Office, Supervisor Solis' Office, Los Angeles Times, Common Wealth Partners, and Bonaventure Hotel.

Social Media Outreach and Marketing Efforts

 Facebook had a 1.5 % increase to 7,022 "likes" with a total reach of 51,817. Twitter had 29.8K impressions with 2,127 total followers and 15 mentions. The most popular campaigns included the extension of the Metro 2-hour free parking program in Little Tokyo, Grand Ave Arts all access and project management site visit to the 1st/Central station yard.

CONSTRUCTION AND COMMUNITY RELATIONS STATUS (Cont.)

Community Relations

- Conducted monthly updates with the Regional Connector Community Leadership Council for station areas representatives on construction related work, mitigations review, upcoming marketing and advertising efforts.
- Continued monthly Eat, Shop, Play (ESP) implementation and promotion of small businesses impacted by construction along the line. ESP provides social media and incommunity promotions of area businesses.
- Continued work with the monthly Little Tokyo Marketing & Business Task Force.
- Metro's continued sponsorship of the Little Tokyo 2-hour free visitor validation program added a fourth location to the program. The program originally instituted to address construction impacts associated with the Shoofly (January-March 2016) was extended to address impacts associated with 2nd Street grouting activities and advance work in preparation for the tunnel boring machine launch.

CREATIVE SERVICES STATUS

Art Program

- Issued Artist Contracts
- Responded to RFIs and Submittals
- Participated in Design Build document reviews
- · 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 and IPMO project staff. Training sessions included 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 on a daily basis 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 one recordable injury in the month of August 2016.
- C0980 Contractor RCC reported *44,587* work-hours for the month of *August* 2016. The total C0980 Contract to Date work hours through *August* 2016 are *985,617* with a total of *six* (6) recordable injuries and no Lost Time injuries. The C0980 Contract Recordable Injury Rate is 1.22. The Bureau of Labor Statistics National Average Recordable Injury Rate is 3.2 for heavy civil construction projects.
- Project to Date Total Work Hours including both the C0980 and the C0981 Advanced Utility Relocation contract through *August* is now *1,096,666* hours with *seven* (7) recordable injuries. Project Total Recordable Injury Rate is now 1.28.

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:

- On Flower Street between 5th and 6th Street, the LADWP power crew started their work on August 8, 2016 (Saturday) on Flower Street between 5th and 6th Streets, and is tentatively scheduled to complete their work by the end November 2016.
- At 2nd Street and Broadway (Construction), LADWP conduit crews started their work on June 6, 2016 and completed on June 10, 2016. The cable pulling and splicing was completed on September 9, 2016.

ADVANCED UTILITY RELOCATION STATUS (Cont.)

LADWP-Water Services anticipated completion dates for water installation and removal of old facilities including the following:

- At the 1st and Alameda Street intersection, RCC started the installation of the 36" water line the first week of June 2016, and *completed their work in early September*.
- At 2nd and Spring Street, the water relocation of the 8" water line started on April 19, 2016, and is estimated to be complete *by mid-October* 2016.

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 in order to accommodate the Regional Connector 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.

1st/Central Station:

• Work activities at the intersection of 1st/Alameda have currently reached a Steady State Phase, where construction of the future tunnel portal structure is underway. The intersection of the 1st and Alameda Streets has been decked, and underground operations are proceeding. Work is anticipated to last until approximately 2020. Future closures are anticipated at the intersection of Temple and Alameda Streets to perform utility relocations and piling/decking. Metro will be reaching out to the appropriate agencies to obtain street closure approvals.

2nd/Broadway Station

- Permission to obtain a full closure of the 2nd/Broadway intersection was granted from February 27, 2016 to July 29, 2016. Work includes the Utility Relocations, and soldier piling/decking operations. Metro coordinated with LADOT/CD14 to extend the closure for approximately 2.5 months (until October 5, 2016) to support soldier piling/decking operations at this location. Further exemptions will be pursued for the planned 2nd Street Midblock Closure (between Broadway and Spring Street) anticipated for October 2016.
- At the intersection of 2nd/Spring Streets, AM Peak Hours were granted by LABOE to perform wet and dry utility relocations.

2nd/Hope Station

• AM and PM exemptions for the 2nd/Hope full closure have been obtained from January 23, 2016 to April 20, 2019. This is to support utility relocations, piling/decking operations, and the 2nd/Hope Station construction.

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 coordinated with CD 14/LADOT to obtain an AM peak hour exemption to perform LADWP power intercept utility work in the vicinity of 5th and Flower Streets. The exemption was granted from September 13, 2016 to September 23, 2016. As necessary per construction operations, the exemption will be extended.

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 September 2016, LAPD approved time extensions for one (1) existing variance for the following locations:

• At the 1st/Alameda area, one (1) variance was given for time extension for waterline work.

In September 2016, LAPD approved two (2) new variances for the Flower Street location.

- On the west side of Flower Street between 4th and 5th Streets, one (1) variance was approved for Sunday installation of solider piles.
- At the 3rd and Flower Street intersection, one (1) variance was approved for the tie-back removal shaft.

CPUC CROSSING SUMMARY

Current Status

Contract C0980 requires RCC to design and obtain CPUC approval for the temporary relocation of the existing at-grade crossing of 1st Street adjacent to Alameda Street, approximately 500 feet east of its current location at 1st/Hewitt Streets. Also, the south Little Tokyo station pedestrian crossing will have to be re-opened to provide pedestrian access. The temporary modification of the existing at-grade crossing will remain in-place until construction of the underground Wye junction necessitates closure of the existing Little Tokyo Station, at which point bus bridging will be implemented to transfer passengers between the Pico/Aliso and Union Station. When complete, the Regional Connector Project will no longer have an at-grade crossing at the intersections of 1st/Alameda and Temple/Alameda Streets.

On May 13, 2015, RCC received CPUC approval for the temporary relocation of the existing at-grade crossing of 1st Street adjacent to Alameda Street. Additionally, on May 26, 2015, RCC received CPUC approval of the South Little Tokyo station pedestrian crossing Form GO-88B application package.

As of July 2016, Metro and RCC have finalized the items that need to be included in the checklist for the Safety Certification Status. This involves both design and construction items noted 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 are presently being 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).

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 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 1st draft FFGA application to FTA for review				
September 2013	Received proposals for D/B Contract C0980				

CHRONOLOGY OF EVENTS (Cont.)

September 2013	Submitted 2nd 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 2nd street and Broadway Station (LA Times Building) Issued "Notice of Intent to Award" letter to contract C0981R contractor
December 2013	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 1st ST. and Alameda
December 2014	Metro completed Field Vibration Testing for existing Expo and Gold Lines
January 2015	Demolish Buildings at 1st/Central Station
February 2015	Metro approved the Baseline Schedule for C0980 D/B Contract
March 2015	RCC started 2nd/Broadway Station Site Move-In

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 1st/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 2nd/Broadway intersection.
March 2016	RCC completed Bus Bridge # 1 (Shoofly Tie-In at Little Tokyo) work.
March 2016	Excavation of 1st/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 1st/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 2nd/Broadway Station (West Hammer Head)
July 2016	RCC Initiated CIP invert at 1st/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)

CONSTRUCTION CONTRACTS

Description: Design-Build Contract

Contractor: Regional Connector Constructors

Contract No. C0980

Design package.

Status as of: September 30, 2016

Major Activities (In Progress):

Work Completed:

Design

Metro conducted reviews and provided response for OCS conductor material product data, Train Control Microprocessing Data, ITP 214 Shotcrete placement, DU3 Tieback removal temporary shaft submittal, Basis of Design Crossover Cavern Dynamic Analysis, DU3 Bored Tunnel Design (Electrical) AFC, DU3A SEM Cavern and Cross Passages AFC package, AFC design package for DU08 1st/Central Station, and DU11 Train Control System-wide Design AF.

Construction

Design

1st/Central

- RCC continues hanging utilities in the Wye.
- RCC continues excavation/lagging and installation of walers and struts for TBM SOE/Wye.
- RCC continues removal of tie-backs for station bulkhead removal.

Metro continue review and coordination with Fire Life

Fan Plant, 6th/Flower DWPPS relocation preliminary engineering, and the 100% DU07 2nd/Broadway Station

Safety of exiting along Flower, Hope Street & Alameda

- RCC continues installation for rebar for station invert.
- RCC continues installation of conduits on protection slab.
- RCC continues geotechnical installation and monitoring at 1st/Central Yard and Alameda Public ROW.
- RCC continues the pre-condition phase of compensation grouting from Central Ave.

2nd/Broadway

- RCC continues pile installation at 2nd/Broadway intersection (hammerhead).
- RCC continues water work at 2nd/Spring.
- RCC continues installing deck beams in the 2nd/Broadway intersection.
- RCC continues utility hanging in the 2nd/Broadway intersection.
- RCC continues installation of piles in the ancillary structure.

2nd/Hope

- RCC continues station excavation at 2nd/Hope Station.
- RCC continues station lagging at 2nd/Hope Station.
- RCC continues SOE waler and strut installation at 2nd /Hope Station.
- RCC continues station tie-back installation at 2nd/Hope.

Flower

- RCC continues pile installation between 4th and 5th on west side of Flower Street.
- RCC continues excavation and installation of 24" waterline on Flower Street.
- · RCC continues installation of cap beam and lagging.
- RCC continues excavation for the tie-back removal pit.

Project-wide

- RCC continues pre-con survey (photograph existing conditions) at various locations, as needed.
- RCC continues underground investigation potholing Hydrovac and exploratory trenching at various locations project wide.
- RCC continues preparation of submittals and traffic control plans, including weekly meetings with LADOT and City Council District 14.

Construction

1st/Central

- RCC completed 1st/Alameda Wye decking installation.
- RCC re-opened 1st/Alameda intersection and implemented "Steady State" configuration.
- RCC completed installation of bottom mat of rebar in station invert.

CONSTRUCTION CONTRACTS (Cont.)

Description: Design-Build Contract Contractor: Regional Connector Constructors Contract No. C0980 Status as of: September 30, 2016

Areas of Concern:

- Utility relocations have been delayed, impacting RCC's schedule. Schedule mitigation measures are being implemented across the alignment. Major street and intersection closures are being coordinated with LADOT, LABOE, and Council District 14 to facilitate construction plans and schedules. Additionally, Metro and RCC are coordinating with DWP and third-party utility owners on utility design and relocation issues along Flower, Broadway, Alameda and 2nd Street to advance construction fronts at these locations.
- Schedule recovery measures notwithstanding, schedule float and flexibility is minimal; opportunities for improvement continue to be reviewed.
- Delays and reduced productivity along Flower St. continue to be experienced; work hour and access constraints are driving causes.

Please see the "Management Issues/Opportunities" section for Concerns and Opportunities details.

Major Activities Next Period: Design

Metro will review AFC design for DU06 2nd/Hope Station, 100% packages for DU06.3 2nd/Hope Pedestrian Bridge design package, AFC design package for DU06 2nd/Hope without pedestrian bridge, and AFC package for DU16.1 2nd/Broadway Underpinning design package.

Construction

1st/Central

- RCC will begin concrete pours for station invert.
- RCC will begin installation of top mat of rebar for station
- RCC will begin setup and installation of track level rebar conduits.

2nd/Broadway

- RCC will re-open northbound and southbound Broadway and implemented 2nd Street Phase 1 mid-block closure.
- RCC will begin station excavation.
- RCC will begin installation of tie-backs at station hammerhead.

Flower

- RCC will begin implementation of Steady State configuration.
- RCC will begin deck beam installation at 4th/Flower.
- RCC will begin Phase 2 of sewer bypass work at
- RCC will begin work on temporary power sub-station at 5th/Flower.

Project-wide

- RCC will begin installation of MPBX along 2nd Street.
- RCC will begin installation of UMP at 3rd/Flower (tie-back removal shaft).

CONSTRUCTION CONTRACTS (Cont.)

Description: Design-Build Contract Contractor: Regional Connector Constructors		Contract No. C0980 Status as of: September 30, 2016						
								Schedule Summary:
Date of Award:	5/6/2014	4	Notice to Proceed	07/07/14	0	07/07/14	07/07/14	0
Notice to Proceed:	7/7/2014		Milestone 1:	10/22/20	0	10/22/20	05/15/21	-205
Original Contract Duration:	2430	CD	Milestone 2:	06/14/20	0	06/14/20	01/19/21	-219
			Milestone 3:	05/15/16	0	05/15/16	11/04/17	-538
			Milestone 4:	05/27/18	0	05/27/18	09/27/19	-488
Current Contract Duration:	2430	CD	Milestone 5:	08/19/19	0	08/19/19	05/28/20	-283
Elapsed Time from NTP:	817	CD	Milestone 6:	09/18/19	0	09/18/19	08/26/20	-343
			Milestone 7:	10/10/15	0	10/10/15	03/21/16	-163
			Milestone 8:	04/22/18	0	04/22/18	03/29/20	-707
			Milestone 9A:	07/14/20	0	07/14/20	12/10/20	-149
			Milestone 9B:	10/22/20	0	10/22/20	03/20/21	-149
			Milestone 10:	10/12/20	0	10/12/20	07/13/21	-274
			Milestone 11:	10/27/20	0	10/27/20	07/28/21	-274
			Milestone 12:	03/01/21	0	03/01/21	09/21/21	-204
Physical Percent Complete as of : 10/01/16		Cost Summary:			\$ In millions			
Design	94.2%		1. Award Value:				927.2	
Construction	18.1%		2. Executed Modif	ications:			47.4	
Total Incurred Cost	37.8%		3. Approved Change Orders:				19.7	
* Note: Physical completion assessment excludes		4. Current Contract Value (1+2+3):				994.3		
mobilization, general mobilization and Provisional Sum.		5. Incurred Cost:				375.8		

CONSTRUCTION PHOTOS



Installation of top map of rebar for 1st/Central station invert



Excavation at Wye



Tie-back installation at 2nd/Hope



Removing spoils from 2nd/Hope with muck bin



Decking at 2nd/Broadway



Utility hanging at 2nd/Broadway



Excavation and utility hanging at Tie-back Removal Pit



Waterline work on Flower Street

APPENDIX COST AND BUDGET TERMINOLOGY

Project Cost Descriptions

ORIGINAL BUDGET The Original Project Budget established upon Board approval

of Life-of-Project (LOP) budget.

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, 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.

EXPENDITURES The total dollar amount of funds expended by Metro for

contractor or consultant invoices, third party invoices, staff salaries, real estate and other expenses that is reported in

Metro's Financial Information System (FIS).

CURRENT FORECAST The best estimate of the final cost of the project when all

checks have been issued and the project is closed out. Current Forecast is composed of actual costs incurred to date, the best estimate of work remaining and a current risk assessment for

each budgeted cost item.

Cost Report by Element Descriptions

CONSTRUCTION Includes construction contracts. Cost associated with

Guideways, Stations, Southwestern Yard, Sitework/Special.

Conditions and Systems.

RIGHT-OF-WAY Includes purchase cost of parcels, easements, right-of-entry

permits, escrow fees, contracted real estate appraisals and

tenant relocation.

VEHICLES Includes the purchase of LRT 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 receivable to the Metro as a direct result

of project activities. This includes cost sharing 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 Day

CEQA California Environmental Quality Act

CM Construction Manager

CMAQ Congestion Mitigation and Air Quality Improvement Program

CN Change Notice CO Change Order

CPM Critical Path Method

CPUC California Public Utilities Commission CQWP Construction Quality Work Plan

CQVF Construction Quality

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

EPB TBM Earth Pressure Balance Tunnel Boring Machine

FAR Federal Acquisition Regulation

FD Final Design

FEIS Final Environmental Impact Statement
FEIR Final Environmental Impact Report
FFGA 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

FTA Federal Transit Administration

FTE Full Time Equivalent

APPENDIX

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

GBN Ground Borne Noise

GBR Geotechnical Baseline Report

GDSR Geotechnical Design Summary Report

HABS/HAERHistorical American Building Survey / Historical American Engineering Record

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

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

PE Preliminary Engineering

PEER Permit Engineering Evaluation Report

PIP Project Implementation Plan

APPENDIX

LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

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 Assessment Management Plan

RFC Request For Change
RFP 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

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

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

TPSS Traction Power Substation
TVA Threat Vulnerability Analysis
TVM Ticket Vending Machine
UFS Universal Fare System

APPENDIX LIST OF ABBREVIATIONS AND ACRONYMS (Cont.)

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