Phase 2 Exposition Metro Line Project

Monthly Project Status Report

March 2015



EXPOSITION METRO LINE CONSTRUCTION AUTHORITY Monthly Phase 2 Project Status Report Period Ending – March 31, 2015



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EXPOSITION METRO LINE CONSTRUCTION AUTHORITY Monthly Phase 2 Project Status Box

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Phase 2 Exposition Metro Line Construction Authority Project Description

The Expo Phase 2 Project is located in the Westside of Los Angeles, extending approximately seven miles from the Expo Phase 1 terminus at Culver City Station to Santa Monica. The Phase 2 alignment begins at the terminus of Expo Phase 1 and utilizes the existing Exposition Right-of-Way (ROW), then diverges from the Exposition ROW and enters onto Colorado Avenue east of 17th Street. The alignment follows the center of Colorado Avenue to the proposed terminus in downtown Santa Monica in the vicinity of the intersection of 4th Street and Colorado Avenue.

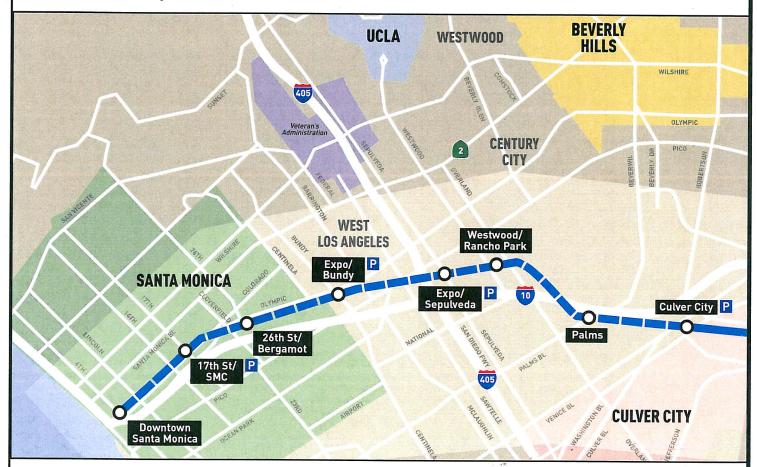


Figure 1: Exposition Metro Line Construction Authority Phase 2 Alignment

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Phase 2 Exposition Metro Line Construction Authority Culver City to Santa Monica Segment

Project Management Issues

Mainline Schedule

The latest Skanska/Rados Joint Venture (SRJV) progress schedule shows Substantial Completion at the beginning of December, which is approximately four (4) months beyond the contractual Substantial Completion date. The latest progress schedule includes a conservative 30 day review cycle for final approval of test results and a 20 day rain allowance. The delay is due to several factors, which include delayed site turnover to the track installation subcontractor, delayed ductbank installation, and vibration mitigation design and construction. The contractor and the Authority are working on a mitigation plan to minimize these delays. This latest schedule is still within the schedule contingency allocation, and should therefore not impact the overall revenue operations date. The Authority anticipates having the system substantially complete for turnover to Metro to begin Phase 2 testing and Pre-Revenue operations by October 1, 2015.

Utility Relocations

The Authority worked closely with the Los Angeles Department of Water and Power (LADWP) and Southern California Edison (SCE) to complete the remaining new power service designs. Ongoing critical work includes energizing the remaining two TPSS, installing meters, pulling cable and installation of new power services by the contractor's need date for testing purposes.

City of Los Angeles

In the City of Los Angeles (COLA), scheduled critical activities include temporary traffic handling to support roadway work. The Authority is collaborating with the various COLA departments to gain approval of the last few design drawings of the Bundy Station Metro Parking reconfiguration and related street restriping requested by Los Angeles Department of Transportation (LADOT). The Contractor is also working on adding sidewalk along the west side of Sepulveda north of the station per the City's request.

City of Santa Monica

Terminus property condemnation has been filed with the court. A legal issues trial date has been set for November 2015.

Operations and Maintenance Facility (OMF)

The current project schedule shows Substantial Completion of the OMF in October 2015, which is five (5) months later than the current Substantial Completion date of May 2015. The project's latest slip is due to damage to the train control laterals as well as delays to the procurement of long-lead electrical equipment. The OMF contractor is looking at recovery options. The Authority anticipates having the facility available to accept LRT vehicles in September 2015 and the overall facility available to Metro October 2015.

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Key Activities Completed This Period

Phase 2 Design-Build contractor, Skanska/Rados (SRJV)

- SRJV advanced remaining design elements. Staff worked with SRJV to resolve open issues.
- SRJV continued construction activities:
 - o advanced OCS poles and wire;
 - o advanced station platforms and C/S rooms:
 - o advanced support poles for canopies/artwork and pavers at stations;
 - o continued ballasted special trackwork, embedded trackwork (Colorado) and direct fixation trackwork on bridges and floating (GERB) slabs near Stewart and Barrington;
 - o advanced soundwalls;
 - o advanced TPSS site work (TPSS6 and TPSS7);
 - o advanced street improvements including street lighting and traffic signal installation; and
 - o continued train control installation.
- SRJV advanced construction submittals and requests for information; Authority staff reviewed and collaborated to resolve previously rejected submittals.
- SCE, DWP, and communications providers continued to relocate facilities and provide new service.
- Continued Local Field Acceptance Testing (LFATs) for systems and train control.

Venice Boulevard Underpass Design-Build contractor

• The Expo Phase 2 Contractor (SRJV) worked on the remaining construction work.

Operations and Maintenance Facility, Kiewit Building Group (KBG)

- Track and Site Work:
 - o continued coordination and installation of dry and wet utilities;
 - o installed special trackwork east yard, set ties and rail in north yard, top ballast and tamper east vard:
 - o set SCE switchgear.
- Main and Secondary Building:
 - o continued main building roofing and interior drywall;
 - o erect interior scaffolding to underside of roof deck;
 - o continued wall framing;
 - o continued MEP rough-in;
 - o continued installation of glazing.
- Wash Building & Cleaning Platform:
 - install roof decking at wash building;
 - o erect structural steel at cleaning platform;
- Train Control Bungalows:
 - conduct witness testing (LFATs)

Bikeway

- SRJV advanced final Bikeway design. Bikeway Contractor worked with the COLA to resolve final comments. COLA approved most of the design drawings. Portions of the Centinela Realignment is still pending final approval. Right of Way / Lease modifications and utility relocations nearing completion.
- Soil mitigation completed, final confirmation sampling and report pending DTSC approval.
- Grading, drainage, electrical conduit installation and paving in process.

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Key Future Activities

Phase 2 Design-Build contractor, Skanska/Rados (SRJV)

- SRJV advance remaining design elements. Metro, Authority, and third party staff will continue to work with SRJV to resolve comments and open issues.
- SRJV will continue the following construction activities:
 - o advance stations:
 - o advance OCS wire installation:
 - o install guideway lighting;
 - o advance canopy poles and station paver installation;
 - o complete ballasted special trackwork and embedded trackwork (Colorado);
 - o advance street improvements;
 - SCE, DWP, and communication providers to finalize relocations and continue providing service to the remaining low voltage meters and TPSS;
 - o continue LFATs for systems and train control.

Venice Boulevard Underpass

- Finalize roadway and Culver City Plaza design and obtain third party approval.
- Expo Phase 2 Contractor (SRJV) will continue completing the remaining construction work.

Operations and Maintenance Facility contractor, Kiewit Building Group

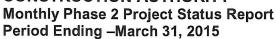
- Continue Construction Safety Certification.
- Set interior equipment.
- Continue track installation.
- Continue start-up and activation meetings.

Bikeway

SRJV obtain complete COLA approval.

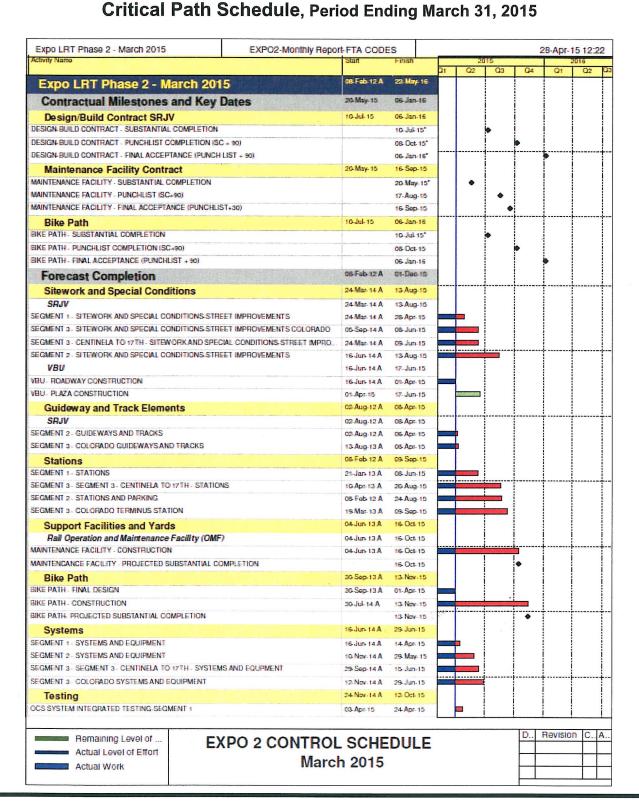
General

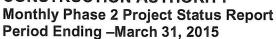
- Continue coordination with the COLA, CSM, Metro, and Caltrans.
- Facilitate Fire Life Safety Committee meetings.
- Continue FEIR mitigation measures.





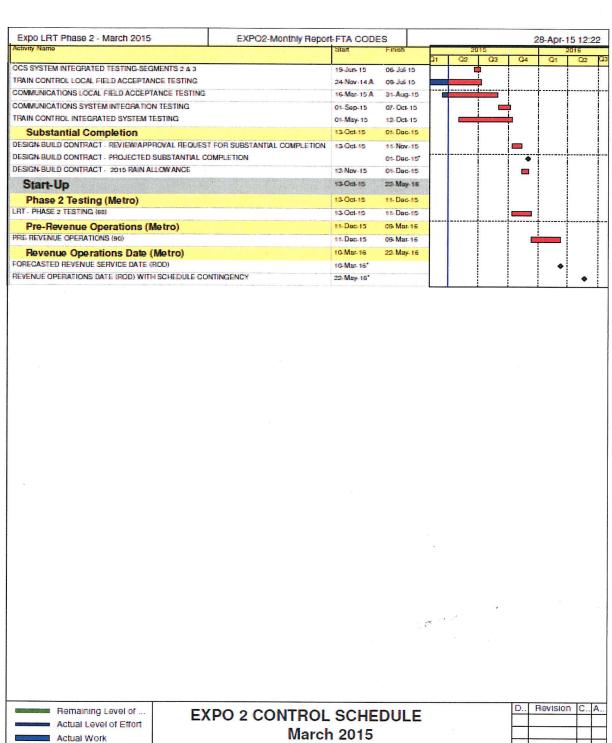
Phase 2 Exposition Metro Line Construction Authority Schedule Status







Critical Path Schedule Continued



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Schedule Narrative

Critical and Near-Critical Path Analysis

The Critical Path runs through the completion of the train control system installation and Local Field Acceptance Tests (LFATs) from Venice to Military. It continues through the LFAT testing west of Military and concludes with the dynamic train control testing. The installation of traffic signals from Venice to Military is near critical and drives the completion of the train control LFAT testing and the start of the dynamic testing. The completion of the track installation at few remaining locations (Terminus Station, Stewart and Barrington), followed by the Overhead Catenary System (OCS) wire installation and testing at the corresponding wire runs, is near critical and drives the start of train control dynamic testing.

The coordination with third party utility owners is ongoing in order to provide power service to the project and support the systems testing phase which started in November 2014.

Project Float/ Schedule Contingency

On January 5, 2012, the Board of Directors authorized the Authority to include schedule contingency in accordance with Metro's Project Contingency procedure which resulted in a Revenue Operations Date of November 5, 2016. At the January 9, 2014 Board Meeting half of the contingency was released. If all the remaining Schedule Contingency were needed, the projected Revenue Operation Date would be May 22, 2016.

	Original Duration (days)	Days Released	Current Duration (days)
Schedule Contingency	334	167	167

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Phase 2 Exposition Metro Line Construction Authority Financial Status

Project Cost Status and Analysis Expo/Metro Baseline

COST REPORT BY ELEMENT

UNITS IN MILLIONS

Element	Description	Original Budget	Current Budget	Commitments	Expenditures	Current Forecast	Forecast Variance Over/ <under></under>
С	CONSTRUCTION	766.3	759.8	683.4	553.1	759.8	
R	RIGHT-OF-WAY	265.0	257.6	115.4	113.7	257.6	-
V	VEHICLES	202.1	202.1	202.1	77.7	202.1	
Р	PROFESSIONAL SERVICES	148.2	149.7	109.6	98.6	149.7	
sc	SPECIAL CONDITIONS	63.6	81.9	66.4	56.0	81.9	_
PR	PROJECT RESERVE	66.0	60.1	- 1	-	60.1	
	TOTAL	1,511.2	1,511.2	1,176.9	899.2	1,511.2	-

NOTE: Expenditures are Paid-to-Date through 2/28/15

Original Budget and Current Budget:

The Life of Project Budget for the Phase 2 Exposition Metro Line Project was adopted in March 2011 for a value of \$1.511 billion.

Current Forecast:

The total project forecast at completion remains the same as the current budget of \$1.511 billion.

The state of the s

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Project Operating Budget Summary in Millions of Dollars



Sources & Uses of Funds - Phase 2
Status as of March 31, 2015

Metro / Expo Baseline Activities

Sources of Funds (millions)

Α

В

C = A - B

Source		Budget	Funding Committed	Ur	ncommitted	
Prop A 35%		\$ 224.0	\$ 170.3	\$	53.7	
Prop C 25%		\$ 5.8	\$ 2.6	\$	3.2	
Measure R		\$ 908.9	\$ 631.3	\$	277.6	
Prop 1B Bonds - PTMISEA		\$ 48.9	\$ 15.2	\$	33.7	
Prop 1B Bonds - SLPP		\$ 28.3	\$ 28.3	\$	_	
Regional Improvement Program (State)		\$ 47.8	\$ 47.8	\$	0.0	
Local Agency Contribution	_	\$ 45.3	\$ 45.3	\$	0.0	
		\$ 1,309.1	\$ 940.8	\$	368.3	
	Total Sources:	\$ 1,309.1	\$ 940.8	\$	368.3	

Uses of Funds by Hement (millions)

Α

D

С

D = A - B

⊟ement	Budget Committed				Paid			Uncommitted		
Design-Build Corridor	\$	594.5	\$	557.1	\$		464.8	\$	37.5	
Other Construction Elements	\$	165.4	\$	126.3	\$		88.3	\$	39.0	
Right-of-Way	\$	257.6	\$	115.4	\$		113.7	\$	142.2	
Professional Services	\$	149.7	\$	109.6	\$		98.6	\$	40.1	
Special Conditions	\$	81.9	\$	66.4	\$		56.0	\$	15.4	
Project Reserve	\$	60.1	\$	=	\$		-	\$	60.1	
Total Uses:	\$	1,309.1	\$	974.8	\$		821.5	\$	334.3	

Paid-to-Date through 2/28/15

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Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2
Status as of M arch 31, 2015

Metro / Expo Baseline Activities - Vehicles

Sources of Funds (millions)

Α

В

C = A - B

				Funding			
Source		Budget		Committed	Unc	ommitted	
RSTP (Federal) for LRVs		\$ 7.7	\$	7.7	\$	-	
CMAQ (Federal) for LRVs		\$ 41.3	\$	41.3	\$	_	
Reg. Imp. Prog. (Federal) for LRVs	_	\$ 153.1	\$	153.1	\$	_	
		\$ 202.1	\$	202.1	\$		w.
	Total Sources:	\$ 202.1	\$	202.1	\$	-	

Uses of Funds by Element (millions)

Α

D

_

D = A - B

⊟em	ent		Budget	(Committed	Paid	Une	committed
Vehi	cles	\$	202.1	\$	202.1	\$ 77.7	\$	-
	Total Uses	:_\$	202.1	\$	202.1	\$ 77.7	\$	-

Paid-to-Date through 2/28/15

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Project Operating Budget Summary in Millions of Dollars



Sources & Uses of Funds - Phase 2 Status as of March 31, 2015

Non - Baseline Activities

Sources of Funds (millions)

Α

В

C = A - B

ı					Fu	ınding		
	Source		Bud	lget	Cor	nmitted	Unc	committed
	Project Revenue: City of LA Betterment		\$	5.4	\$	5.4	\$	-
ĺ	Project Revenue: Metro		\$	3.9	\$	3.9	\$	=,
	Project Revenue: City of Santa Monica Betterment	_	\$	20.6	\$	20.6	\$	<u>=</u> ,
	Tot	tal Sources:	\$	29.9	\$	29.9	\$	-

Uses of Funds by Element (millions)

Α

В

C

D = A - B

⊟ement		Budget	C	ommitted	Paid		Unc	ommitted
Design-Build Betterments								
COLA - Sepulveda Blvd Bridge & Aerial Station (Diff.)		\$ 5.3	\$	5.3	\$	3.6	\$	-
COLA - Greenway Project Culvert		\$ 0.1	\$	0.1	\$	0.1	\$	-
Metro - Various Betterments (Metro Board Approved 4/17/14)		\$ 3.9	\$	1.8	\$	1.5	\$	2.2
City of Santa Monica Water System Betterments		\$ 1.6	\$	1.6	\$	1.5	\$	0.0
City of Santa Monica PCC Funding Agreement		\$ 0.5	\$	0.4	\$	- 1	\$	0.1
City of Santa Monica Storm Drain Laterals		\$ 0.3	\$	0.3	\$	0.2	\$	-
26th Street & 17th Street Station Betterments P.E.		\$ 0.4	\$	0.4	\$	0.4	\$	- 1
26th Street & 17th Street Station Betterments Construction		\$ 7.7	\$	5.5	\$	5.5	\$	2.2
4th Street Terminus Station P.E.		\$ 0.5	\$	0.4	\$	0.4	\$	0.1
4th Street Terminus Station Construction		\$ 8.0	\$	6.4	\$	6.2	\$	1.6
CSM Cont. Release - Jacob Guard Rails, Pavers & Landscaping	_	\$ 1.8	\$	• **	\$ 	-	\$	1.8
	Total Uses:	\$ 29.9	\$	22.0	\$ 1	9.3	\$	7.9

Paid-to-Date through 2/28/15

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Phase 2 Exposition Metro Line Construction Authority Contract Status

Expo Phase 2 Design-Build Contract Status

Expo Phase 2		Contract No.:	XP8902	-002			
Contractor: Skanska/Rados		Status as of:	31-N	lar-15			
Progress/Work Completed: See Page 6	e "	Major Activities (In Pro See Page 5 and 6	ogress):				
Areas of Concern: See Pages 4 and 5		Major Activities Next F See Page 6	eriod:				
	v						
	14,	4					
			Original	Time	Current		1
			Contract Dates	Extension	Contract	Forecast	Variance CDs
		Substantial Completion	07/10/15	0	07/10/15	07/10/15	0
		Contract Completion	01/08/16	0	01/08/16	01/08/16	0
Schedule Summary:		Cost Summar	<u>v:</u>		, ,	\$ In Baseline Project	000's Betterments Modifications
Date of Award: 05	5/13/11	Award Value	:	S AME		541,651.27	5,278.94
	5/19/11	2. Executed Mo					51,521.17
Original Contract Duration:	1700	Approved Ch			, -	4070.34	
Current Contract Duration:	1700	4. Current Cont		(1 + 2 + 3)	:	545,721.60	56,800.10
Elapsed Time from NTP:	1,413	5. Pending Cha6. Incurred Cos				401.95 465,688.35	2,234.41 50,349.49

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Expo Phase 2 VBU Design-Build Contract Status

Expo Phase 2 Contractor: Balfour Beatt Infrastructure, Inc.	ty	Contract No.:		-828 lar-15			
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5		Status as of: Major Activities (In Progress Page 5 and 6 Major Activities Next Persen Page 6	ogress):	<u>ai-13</u>			
			Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
	1	Substantial Completion	07/12/13	262	03/31/14	03/31/14	0
Schedule Summary:		Cost Summary:		\$ In Baseline Project	000's Betterments/ Modifications		
	08/04/11 09/01/11	Award Value: Executed Mo	odifications		, , , , , , , , , , , , , , , , , , , ,	15,675.00 (1,640.84)	1,277.00
Original Contract Duration: 680 Current Contract Duration: 796	680	3. Approved Change Orders:4. Current Contract Value (1 + 2 + 3):5. Pending Changes:			3):	1,184.57 15,218.73	1,277.00
Elapsed Time from NTP:	1,308	6. Incurred Cost	_			14,943.83	1,551.90

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Expo Phase 2 OMF Contract Status

Expo Phase 2 Contractor: Kiewitt Building Group	Contract No.:						
O&M Facility Progress/Work Completed: See Page 6	Status as of: 31-Mar-15 Major Activities (In Progress): See Page 5 and 6						
Areas of Concern: See Pages 4 and 5	Major Activities Next Pe See Page 6	eriod:					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs	
	Substantial Completion	11/25/14	176	05/20/15	05/20/15	0	
Schedule Summary:	Cost Summary:				Baseline Project	000's Betterments/ Modifications	
Date of Award: 05/03/13 Limited Notice to Proceed: 06/03/13	2. Executed Modifications:				99,930.56	(72.55	
Current Contract Duration: 540					2,352.82 102,283.38 66.18 71,173.12	(72.55 (76.80 (72.55	

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Expo Phase 2 Bikeway Contract Status

Expo Phase 2 Contractor: Skanska/Rados Bikeway Project	Contract No.: XP8903-01 Status as of: 31-Mar-15 Major Activities (In Progress): See Page 5 and 6						
Progress/Work Completed: See Page 6							
Areas of Concern: See Pages 4 and 5	Major Activities Next Period: See Page 6	Į.					
	Con	iginal Time ntract Extension	Current Contract	Forecast	Variance CD:		
	Substantial 07/1 Completion	10/15 0	07/10/15	07/10/15	0		
Schedule Summary:	Cost Summary:			\$ In Baseline Project	000's Betterments Modification		
Date of Award: 01/27/12	1. Award Value:			11,041.06			
Limited Notice to Proceed: 08/28/13					İ		
Original Contract Duration: 681	_				<u> </u>		
Current Contract Duration: 681),					
Elapsed Time from NTP: 581	5. Pending Changes:			8.24	ļ.		
	6. Incurred Cost:			5,697.67	-		