

Phase 2 Exposition Metro Line Project

Monthly Project Status Report

January 2016





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PHASE 2 EXPO LINE PROJECT STATUS

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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



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

Project Management Issues

Mainline Schedule

Skanska/Rados Joint Venture (SRJV) was granted Substantial Completion on December 18, 2015, which is approximately five (5) months beyond the contractual Substantial Completion date. 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 through cost responsibility for the delay.

City of Santa Monica

Terminus property condemnation has been filed with the court. A trial date was set by the court for the fall of 2016.

Operations and Maintenance Facility (OMF)

The current project schedule shows Substantial Completion of the OMF in January 2016, which is over eight (8) months later than the current Substantial Completion date of May 2015. The project's slip is due to damage to the train control laterals, delays with the track work installation in the wash facility, the main and secondary building construction and the procurement of long-lead electrical equipment. The Authority anticipates having the facility turned over to Metro in February 2016.



Key Activities Completed This Period

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

- Substantial Completion granted December 18th
- Continued to obtain street improvement “Finals” from COLA and CSM
- Continued roadway improvements from Carmelita to Centinela
- Continued electrical and communications finishes (labeling, etc.) at station electrical and C/S rooms
- Continued irrigation, landscaping, signage and fencing
- Continued communication systems testing
- Completion of Punchlist items and safety certification in progress

Venice Boulevard Underpass Design-Build contractor

- The Expo Phase 2 Contractor (SRJV) completed the remaining roadway construction work and continues final inspection with AHJ's and completion of punch list work.
- SRJV commenced construction of the remaining portion of the plaza area and associated roadway work

Operations and Maintenance Facility, Kiewit Building Group (KBG)

- Completed installation of finishes and shop equipment at the buildings
- Completed interior and exterior finishes at the Guard Shack
- Continued the installation of site finishes
- Continued the startup process for building systems
- Continued building systems testing and training
- Continued shop equipment testing and training
- Completed equipment installation and wiring at the main data room
- Continued signage installation
- Continued punchlist preparation
- Continued safety certification

Bikeway

- Completion of Punch list walks.
- Construction between Carmelina and Centinela and Centinela Intersection work.
- Substantial Completion granted December 18th.



Key Future Activities

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

- 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:
 - complete stations;
 - test guideway lighting;
 - complete landscaping;
 - SCE, DWP, and communication providers to finalize relocations and continue providing service to the remaining low voltage meters.
- Commence Revenue Readiness coordination with Metro
- Closeout punchlist items

Venice Boulevard Underpass

- Complete Culver City Plaza and associated roadway construction.
- Expo Phase 2 Contractor (SRJV) will work on the roadway construction work punch list items.

Operations and Maintenance Facility contractor, Kiewit Building Group

- Continue Construction Safety Certification;
- Continue start-up and activation meetings;
- Complete installation of site lighting, parking areas and site walls;
- Complete punchlist preparation and completion of punchlist items;
- Submit application for Substantial Completion.

Bikeway

- Close out punchlist items.
- Bikeway from Carmelina to Centinela intersection

General

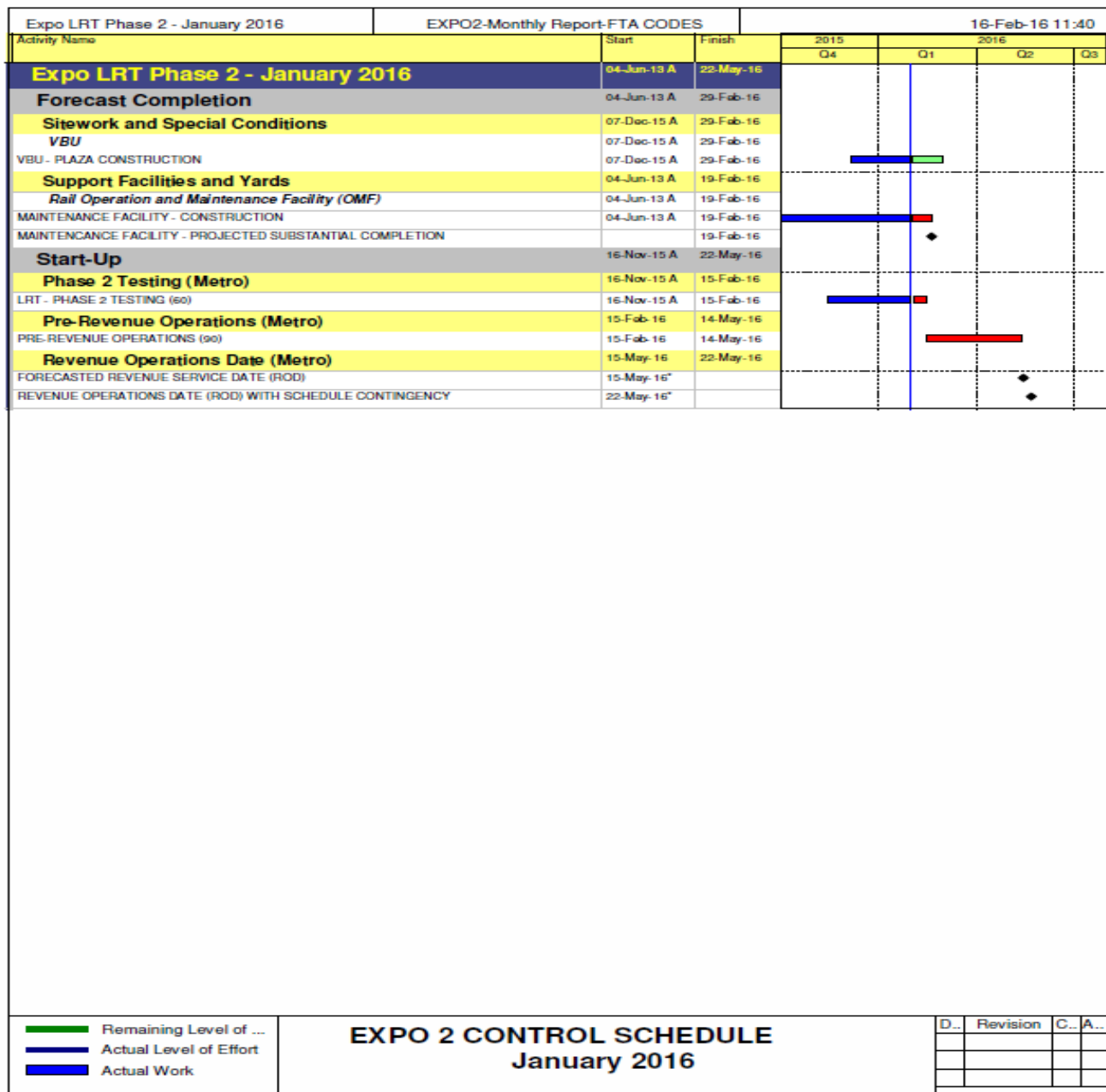
- Continue coordination with the COLA, CSM, Metro, CPUC, and Caltrans.
- Facilitate Fire Life Safety Committee meetings.
- Continue FEIR mitigation measures.

**EXPOSITION METRO LINE
CONSTRUCTION AUTHORITY**
Monthly Phase 2 Project Status Report
Period Ending – January 31, 2016



Phase 2 Exposition Metro Line Construction Authority Schedule Status

**Critical Path Schedule,
Period Ending January 31, 2016**





Schedule Narrative

Critical and Near-Critical Path Analysis

The critical path runs through completing the Metro Phase 2 Testing followed by Pre-Revenue Operation.

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



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>
C	CONSTRUCTION	766.3	759.8	723.0	666.5	759.8	-
R	RIGHT-OF-WAY	265.0	257.6	115.5	113.8	257.6	-
V	VEHICLES	202.1	202.1	202.1	87.7	202.1	-
P	PROFESSIONAL SERVICES	148.2	149.7	125.8	116.5	149.7	-
SC	SPECIAL CONDITIONS	63.6	81.9	66.7	60.3	81.9	-
PR	PROJECT RESERVE	66.0	60.1	-	-	60.1	-
TOTAL		1,511.2	1,511.2	1,233.1	1,044.7	1,511.2	-

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.



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of January 31, 2016

Metro / Expo Baseline Activities

Sources of Funds (millions)	A	B	C = A - B
Source	Budget	Funding Committed	Uncommitted
Prop A 35%	\$ 136.9	\$ 136.9	\$ -
Prop C 25%	\$ 5.8	\$ 5.8	\$ -
Measure R	\$ 909.0	\$ 909.0	\$ -
Prop 1B Bonds - PTMISEA	\$ 136.0	\$ 136.0	\$ -
Prop 1B Bonds - SLPP	\$ 28.3	\$ 28.3	\$ -
Regional Improvement Program (State)	\$ 47.8	\$ 47.8	\$ -
Local Agency Contribution	\$ 45.3	\$ 45.3	\$ -
	\$ 1,309.1	\$ 1,309.1	\$ -
Total Sources:	\$ 1,309.1	\$ 1,309.1	\$ -

Uses of Funds by Element (millions)	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Design-Build Corridor	\$ 594.5	\$ 561.0	\$ 531.6	\$ 33.6
Other Construction Elements	\$ 165.4	\$ 162.0	\$ 134.9	\$ 3.3
Right-of-Way	\$ 257.6	\$ 115.5	\$ 113.8	\$ 142.1
Professional Services	\$ 149.7	\$ 125.8	\$ 116.5	\$ 23.9
Special Conditions	\$ 81.9	\$ 66.7	\$ 60.3	\$ 15.1
Project Reserve	\$ 60.1	\$ -	\$ -	\$ 60.1
Total Uses:	\$ 1,309.1	\$ 1,031.0	\$ 957.0	\$ 278.1

Paid-to-Date through 12/31/15



Project Operating Budget Summary in Millions of Dollars



Sources & Uses of Funds - Phase 2
Status as of January 31, 2016

Metro / Expo Baseline Activities - Vehicles

Sources of Funds (millions)	A	B	C = A - B
Source	Budget	Funding Committed	Uncommitted
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	\$ -
Total Sources:	\$ 202.1	\$ 202.1	\$ -

Uses of Funds by Element (millions)	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Vehicles	\$ 202.1	\$ 202.1	\$ 87.7	\$ -
Total Uses:	\$ 202.1	\$ 202.1	\$ 87.7	\$ -

Paid-to-Date through 12/31/15

**EXPOSITION METRO LINE
CONSTRUCTION AUTHORITY**
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Period Ending – January 31, 2016



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of January 31, 2016

Non - Baseline Activities

Sources of Funds (millions)

	A	B	C = A - B
Source	Budget	Funding Committed	Uncommitted
Project Revenue: City of LA Betterment	\$ 5.4	\$ 5.4	\$ -
Project Revenue: Metro	\$ 3.9	\$ 3.9	\$ -
Project Revenue: City of Santa Monica Betterment	\$ 20.2	\$ 20.2	\$ -
Total Sources:	\$ 29.5	\$ 29.5	\$ -

Uses of Funds by Element (millions)

	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Design-Build Betterments				
COLA - Sepulveda Blvd Bridge & Aerial Station (Diff.)	\$ 5.3	\$ 5.3	\$ 5.1	\$ -
COLA - Greenway Project Culvert	\$ 0.1	\$ 0.1	\$ 0.1	\$ -
Metro - Various Betterments (Metro Board Approved 4/17/14)	\$ 3.9	\$ 3.9	\$ 2.0	\$ -
City of Santa Monica Water System Betterments	\$ 1.6	\$ 1.6	\$ 1.5	\$ -
City of Santa Monica PCC Funding Agreement	\$ 0.5	\$ 0.5	\$ -	\$ -
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	\$ -
26th Street & 17th Street Station Betterments Construction	\$ 7.3	\$ 6.8	\$ 5.6	\$ 0.5
4th Street Terminus Station P.E	\$ 0.5	\$ 0.4	\$ 0.4	\$ 0.1
4th Street Terminus Station Construction	\$ 8.0	\$ 7.8	\$ 5.7	\$ 0.2
CSM Cont. Release - Jacob Guard Rails, Pavers & Landscaping	\$ 1.8	\$ 1.7	\$ -	\$ 0.1
Total Uses:	\$ 29.5	\$ 28.6	\$ 21.0	\$ 0.9

Paid-to-Date through 12/31/15



Expo Phase 2 Design-Build Contract Status

Expo Phase 2 Contractor: Skanska/Rados	Contract No.: XP8902-002 Status as of: 31-Jan-16																	
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5	Major Activities (In Progress): See Page 5 and 6 Major Activities Next Period: See Page 6																	
		Original Contract Dates	Time Extension	Current 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												
<u>Schedule Summary:</u> Date of Award: 05/13/11 Limited Notice to Proceed: 05/19/11 Original Contract Duration: 1700 Current Contract Duration: 1700 Elapsed Time from NTP: 1,719	<u>Cost Summary:</u> 1. Award Value: 2. Executed Modifications: 3. Approved Change Orders: 4. Current Contract Value (1 + 2 + 3): 5. Pending Changes: 6. Incurred Cost:					<u>\$ In 000's</u> <table><tr><th>Baseline Project</th><th>Betterments/ Modifications</th></tr><tr><td>541,651.27</td><td>5,278.94</td></tr><tr><td>6200.44</td><td>56,528.50</td></tr><tr><td>547,851.71</td><td>61,807.44</td></tr><tr><td>365.03</td><td>1,174.93</td></tr><tr><td>536,187.15</td><td>59,173.82</td></tr></table>	Baseline Project	Betterments/ Modifications	541,651.27	5,278.94	6200.44	56,528.50	547,851.71	61,807.44	365.03	1,174.93	536,187.15	59,173.82
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365.03	1,174.93																	
536,187.15	59,173.82																	



Expo Phase 2 VBU Design-Build Contract Status

Expo Phase 2 Contractor: Balfour Beatty Infrastructure, Inc.	Contract No.: XP8901-828 Status as of: 31-Jan-16					
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5	Major Activities (In Progress): See Page 5 and 6 Major Activities Next Period: See Page 6					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs
	Substantial Completion	07/12/13	262	03/31/14	03/31/14	0
<u>Schedule Summary:</u> <						



Expo Phase 2 OMF Contract Status

Expo Phase 2 Contractor: Kiewitt Building Group O&M Facility		Contract No.: XP8902-016 Status as of: 31-Jan-16																												
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5	Major Activities (In Progress): See Page 5 and 6 Major Activities Next Period: See Page 6																													
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs																								
	Substantial Completion	11/25/14	176	05/20/15	05/20/15	0																								
<u>Schedule Summary:</u> Date of Award: 05/03/13 Limited Notice to Proceed: 06/03/13 Original Contract Duration: 540 Current Contract Duration: 540 Elapsed Time from NTP: 973		<u>Cost Summary:</u> <table><tr><td></td><td colspan="2">\$ In 000's</td></tr><tr><td></td><td>Baseline Project</td><td>Betterments/ Modifications</td></tr><tr><td>1. Award Value:</td><td>99,930.56</td><td></td></tr><tr><td>2. Executed Modifications:</td><td></td><td>498.02</td></tr><tr><td>3. Approved Change Orders:</td><td>4,612.92</td><td>-</td></tr><tr><td>4. Current Contract Value (1 + 2 + 3):</td><td>104,543.48</td><td>498.02</td></tr><tr><td>5. Pending Changes:</td><td>15.70</td><td>98.62</td></tr><tr><td>6. Incurred Cost:</td><td>102,514.72</td><td>498.02</td></tr></table>						\$ In 000's			Baseline Project	Betterments/ Modifications	1. Award Value:	99,930.56		2. Executed Modifications:		498.02	3. Approved Change Orders:	4,612.92	-	4. Current Contract Value (1 + 2 + 3):	104,543.48	498.02	5. Pending Changes:	15.70	98.62	6. Incurred Cost:	102,514.72	498.02
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6. Incurred Cost:	102,514.72	498.02																												



Expo Phase 2 Bikeway Contract Status

Expo Phase 2 Contractor: Skanska/Rados Bikeway Project	Contract No.: XP8903-01 Status as of: 31-Jan-16																																					
Progress/Work Completed: See Page 6 Areas of Concern: See Pages 4 and 5	Major Activities (In Progress): See Page 5 and 6 Major Activities Next Period: See Page 6																																					
		Original Contract Dates	Time Extension	Current Contract	Forecast	Variance CDs																																
	Substantial Completion	07/10/15	0	07/10/15	07/10/15	0																																
<u>Schedule Summary:</u> Date of Award: 01/27/12 Limited Notice to Proceed: 08/28/13 Original Contract Duration: 681 Current Contract Duration: 681 Elapsed Time from NTP: 887	<u>Cost Summary:</u> <table><tr><td></td><td></td><td colspan="2">\$ In 000's</td></tr><tr><td></td><td></td><td>Baseline Project</td><td>Betterments/ Modifications</td></tr><tr><td>1. Award Value:</td><td></td><td>11,041.06</td><td></td></tr><tr><td>2. Executed Modifications:</td><td></td><td>1,510.62</td><td></td></tr><tr><td>3. Approved Change Orders:</td><td></td><td>510.15</td><td>-</td></tr><tr><td>4. Current Contract Value (1 + 2 + 3):</td><td></td><td>13,061.82</td><td>-</td></tr><tr><td>5. Pending Changes:</td><td></td><td>-</td><td></td></tr><tr><td>6. Incurred Cost:</td><td></td><td>12,319.27</td><td>-</td></tr></table>								\$ In 000's				Baseline Project	Betterments/ Modifications	1. Award Value:		11,041.06		2. Executed Modifications:		1,510.62		3. Approved Change Orders:		510.15	-	4. Current Contract Value (1 + 2 + 3):		13,061.82	-	5. Pending Changes:		-		6. Incurred Cost:		12,319.27	-
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