

Phase 2 Exposition Metro Line Project

Monthly Project Status Report

May 2015





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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

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 in October 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 and timely processing of field changes and requests for information (RFIs).

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 November 2015, which is over 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 October / November 2015 and the overall facility available to Metro November 2015.



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:
 - advanced OCS poles and wire;
 - advanced station platforms and C/S rooms;
 - advanced support poles for canopies/artwork and pavers at stations;
 - advanced soundwalls;
 - advanced TPSS site work (TPSS6 and TPSS7);
 - advanced street improvements including street lighting and traffic signal installation; and
 - 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) completed the remaining roadway construction work and began final inspection walk thru with AHJ's.

Operations and Maintenance Facility, Kiewit Building Group (KBG)

- Track and Site Work:
 - continued coordination and installation of dry and wet utilities;
 - installed special trackwork east yard, set ties and rail in north yard, top ballast and tamper east yard;
 - set SCE switchgear.
- Main and Secondary Building:
 - continued main building roofing and interior drywall;
 - continued wall framing;
 - continued MEP rough-in;
 - continued installation of glazing.
- Wash Building & Cleaning Platform:
 - install roof decking at wash building;
 - erect structural steel at cleaning platform;

Bikeway

- Bikeway design is complete. 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.



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:
 - advance stations;
 - advance OCS wire installation;
 - install guideway lighting;
 - advance canopy poles and station paver installation;
 - complete ballasted special trackwork and embedded trackwork (Colorado);
 - advance street improvements;
 - SCE, DWP, and communication providers to finalize relocations and continue providing service to the remaining low voltage meters and TPSS;
 - 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 work on the roadway construction work punch list items.

Operations and Maintenance Facility contractor, Kiewit Building Group

- Continue Construction Safety Certification.
- Set interior equipment.
- Continue track installation.
- Continue start-up and activation meetings.
- Commence OCS pole erection and systems installation

Bikeway

- Complete construction.

General

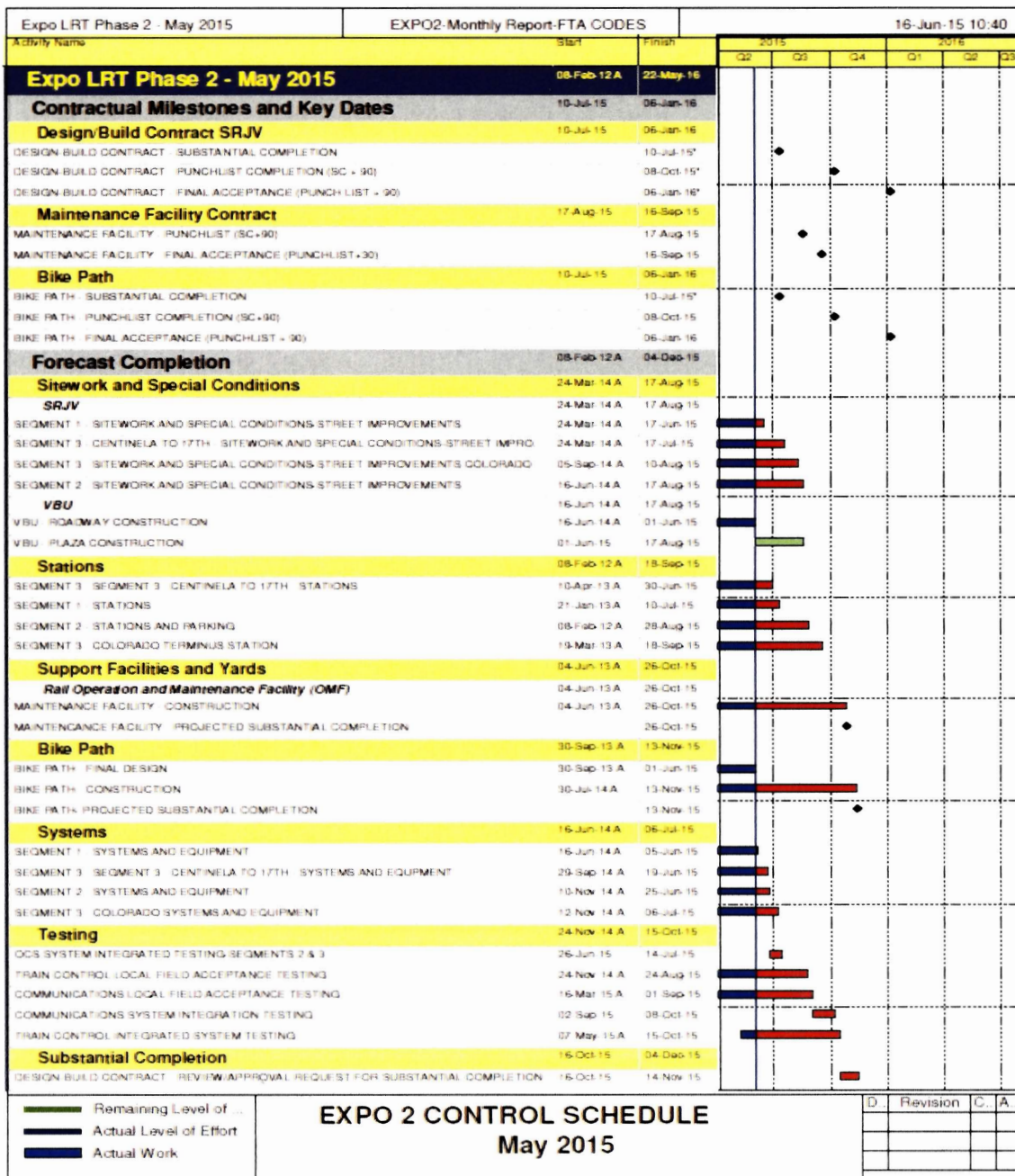
- Continue coordination with the COLA, CSM, Metro, and Caltrans.
- Facilitate Fire Life Safety Committee meetings.
- Continue FEIR mitigation measures.

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



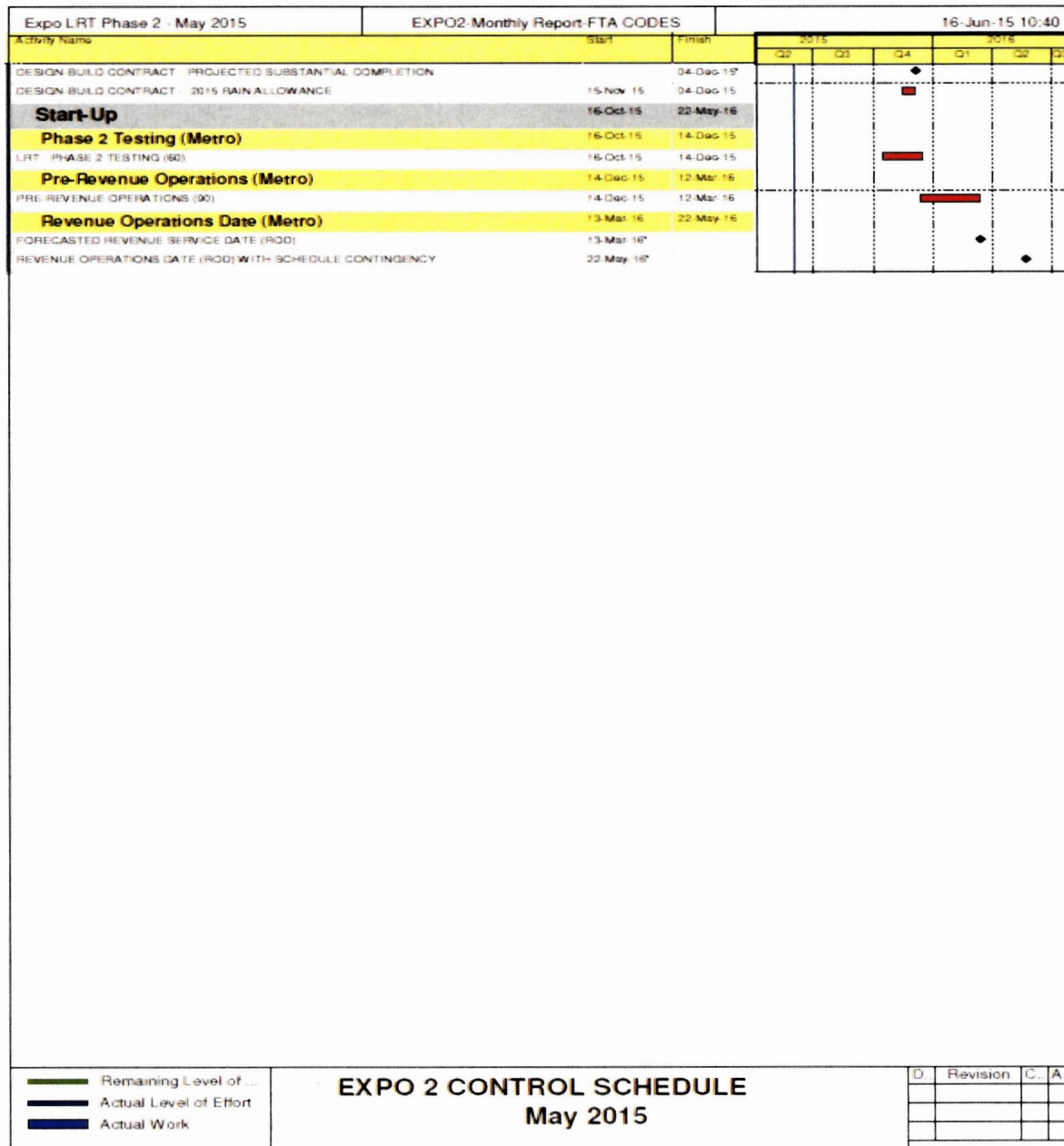
Phase 2 Exposition Metro Line Construction Authority Schedule Status

**Critical Path Schedule,
Period Ending May 31, 2015**





Critical Path Schedule Continued





Schedule Narrative

Critical and Near-Critical Path Analysis

The Critical Path runs through the completion of the dynamic train control System Integration Tests (LFATs) from Venice to Military. It continues through the dynamic train control testing from Military to the Terminus. The train control LFATs from Military to the Terminus are near critical. The completion of the installation of the communications systems followed by testing is also near critical.

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



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	684.0	587.4	759.8	-
R	RIGHT-OF-WAY	265.0	257.6	115.3	113.7	257.6	-
V	VEHICLES	202.1	202.1	202.1	77.7	202.1	-
P	PROFESSIONAL SERVICES	148.2	149.7	118.2	102.9	149.7	-
SC	SPECIAL CONDITIONS	63.6	81.9	66.4	58.1	81.9	-
PR	PROJECT RESERVE	66.0	60.1	-	-	60.1	-
TOTAL		1,511.2	1,511.2	1,186.1	939.8	1,511.2	-

NOTE: Expenditures are Paid-to-Date through 4/30/15

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.



Project Operating Budget Summary in Millions of Dollars



Expo

Sources & Uses of Funds - Phase 2

Status as of May 31, 2015

Metro / Expo Baseline Activities

Sources of Funds (millions)	A	B	C = A - B	
Source	Budget	Funding Committed	Uncommitted	
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 Element (millions)	A	B	C	D = A - B
Element	Budget	Committed	Paid	Uncommitted
Design-Build Corridor	\$ 594.5	\$ 557.1	\$ 485.6	\$ 37.5
Other Construction Elements	\$ 165.4	\$ 127.0	\$ 101.8	\$ 38.4
Right-of-Way	\$ 257.6	\$ 115.3	\$ 113.7	\$ 142.3
Professional Services	\$ 149.7	\$ 118.2	\$ 102.9	\$ 31.5
Special Conditions	\$ 81.9	\$ 66.4	\$ 58.1	\$ 15.4
Project Reserve	\$ 60.1	\$ -	\$ -	\$ 60.1
Total Uses:	\$ 1,309.1	\$ 984.0	\$ 862.1	\$ 325.1

Paid-to-Date through 4/30/15

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	\$ 77.7	\$ -	
Total Uses:	\$ 202.1	\$ 202.1	\$ 77.7	\$ -	

Paid-to-Date through 4/30/15



Phase 2 Exposition Metro Line Construction Authority Contract Status



Expo

Sources & Uses of Funds - Phase 2

Status as of May 31, 2015

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	\$ 20.6	\$ 20.6	\$ -
Total Sources:	\$ 29.9	\$ 29.9	\$ -

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	\$ 4.1	\$ -
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	\$ -	\$ 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	\$ -
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	\$ 19.8	\$ 7.9

Paid-to-Date through 4/30/15

Expo Phase 2 Contractor: Skanska/Rados		Contract No.: XP8902-002 Status as of: 31-May-15					
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: 1,474		<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:		\$ In 000's <table border="1"> <tr> <th>Baseline Project</th> <th>Betterments/ Modifications</th> </tr> <tr> <td>541,651.27</td> <td>5,278.94</td> </tr> <tr> <td>4070.96</td> <td>51,521.17</td> </tr> <tr> <td>545,722.23</td> <td>56,800.10</td> </tr> <tr> <td>681.82</td> <td>3,018.19</td> </tr> <tr> <td>484,090.75</td> <td>52,073.80</td> </tr> </table>	Baseline Project	Betterments/ Modifications	541,651.27	5,278.94	4070.96	51,521.17	545,722.23	56,800.10	681.82	3,018.19	484,090.75	52,073.80
Baseline Project	Betterments/ Modifications															
541,651.27	5,278.94															
4070.96	51,521.17															
545,722.23	56,800.10															
681.82	3,018.19															
484,090.75	52,073.80															



Expo Phase 2 VBU Design-Build Contract Status

Expo Phase 2 Contractor: Balfour Beatty Infrastructure, Inc.	Contract No.: XP8901-828 Status as of: 31-May-15																													
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> Date of Award: 08/04/11 Limited Notice to Proceed: 09/01/11 Original Contract Duration: 680 Current Contract Duration: 796 Elapsed Time from NTP: 1,369	<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>15,675.00</td><td></td></tr><tr><td>2. Executed Modifications:</td><td>(1,640.84)</td><td>1,277.00</td></tr><tr><td>3. Approved Change Orders:</td><td>1,184.57</td><td>-</td></tr><tr><td>4. Current Contract Value (1 + 2 + 3):</td><td>15,218.73</td><td>1,277.00</td></tr><tr><td>5. Pending Changes:</td><td>-</td><td></td></tr><tr><td>6. Incurred Cost:</td><td>14,943.83</td><td>1,551.90</td></tr></table>							\$ In 000's			Baseline Project	Betterments/ Modifications	1. Award Value:	15,675.00		2. Executed Modifications:	(1,640.84)	1,277.00	3. Approved Change Orders:	1,184.57	-	4. Current Contract Value (1 + 2 + 3):	15,218.73	1,277.00	5. Pending Changes:	-		6. Incurred Cost:	14,943.83	1,551.90
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5. Pending Changes:	-																													
6. Incurred Cost:	14,943.83	1,551.90																												



Expo Phase 2 OMF Contract Status

Expo Phase 2 Contractor: Kiewitt Building Group O&M Facility		Contract No.: XP8902-016 Status as of: 31-May-15																													
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: 728		<u>Cost Summary:</u> <table><tr><th></th><th colspan="2">\$ In 000's</th></tr><tr><th></th><th>Baseline Project</th><th>Betterments/ Modifications</th></tr><tr><td>1. Award Value:</td><td>99,930.56</td><td></td></tr><tr><td>2. Executed Modifications:</td><td></td><td>(129.53)</td></tr><tr><td>3. Approved Change Orders:</td><td>2,463.73</td><td>-</td></tr><tr><td>4. Current Contract Value (1 + 2 + 3):</td><td>102,394.29</td><td>(129.53)</td></tr><tr><td>5. Pending Changes:</td><td>189.07</td><td>98.62</td></tr><tr><td>6. Incurred Cost:</td><td>78,863.82</td><td>(72.55)</td></tr></table>							\$ In 000's			Baseline Project	Betterments/ Modifications	1. Award Value:	99,930.56		2. Executed Modifications:		(129.53)	3. Approved Change Orders:	2,463.73	-	4. Current Contract Value (1 + 2 + 3):	102,394.29	(129.53)	5. Pending Changes:	189.07	98.62	6. Incurred Cost:	78,863.82	(72.55)
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5. Pending Changes:	189.07	98.62																													
6. Incurred Cost:	78,863.82	(72.55)																													



Expo Phase 2 Bikeway Contract Status

Expo Phase 2 Contractor: Skanska/Rados Bikeway Project	Contract No.: XP8903-01					
	Status as of: 31-May-15					
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>	<u>Cost Summary:</u>					
					\$ In 000's	
					Baseline Project	Betterments/ Modifications
Date of Award:	01/27/12	1. Award Value:		11,041.06		
Limited Notice to Proceed:	08/28/13	2. Executed Modifications:		1,353.74		
Original Contract Duration:	681	3. Approved Change Orders:		121.12	-	
Current Contract Duration:	681	4. Current Contract Value (1 + 2 + 3):		12,515.92	-	
Elapsed Time from NTP:	642	5. Pending Changes:		71.99		
		6. Incurred Cost:		6,415.18	-	