

### Recent Construction Highlights

Flatiron Constructors Intermountain continued with construction of Span 1 WB CIP Superstructure and completed all stressing and grouting on October 30<sup>th</sup>. Pier Table construction continued at Pier 3 WB, and Span 5 WB CIP Superstructure operations began with falsework erection. The following is a summary of the construction progress for the last month.

**Figure 1 – Grouting Mock-Up – October 14, 2008:**  
Despite the cold and rainy conditions, Flatiron performed the grouting mock-up test, as required by the Specifications. The figure to the right shows the test set-up, which has an unstressed 7-strand tendon installed. Successful completion of this test is required prior to beginning production stressing and grouting operations.



**Figure 2 – Span 1 WB CIP Superstructure Construction – October 15, 2008:**  
Following completion of the grouting mock-up test, Flatiron begins stressing Span 1 WB. The PT crew is shown stressing the transverse tendons in the top slab.

**Figure 3 – Pier 3 WB Pier Table Construction – October 23, 2008:**  
The falsework assembly is complete at Pier Table 3 WB and the web forms are partially installed.



**Figure 4 – Span 1 WB CIP Superstructure Construction – October 27, 2008:**  
After stressing all of the transverse tendons and the vertical PT bars in the pier and abutment diaphragms, the PT crew begins stressing the longitudinal tendons in Span 1 WB. In this figure, the crew installs the jack on the 19-strand draped tendons.

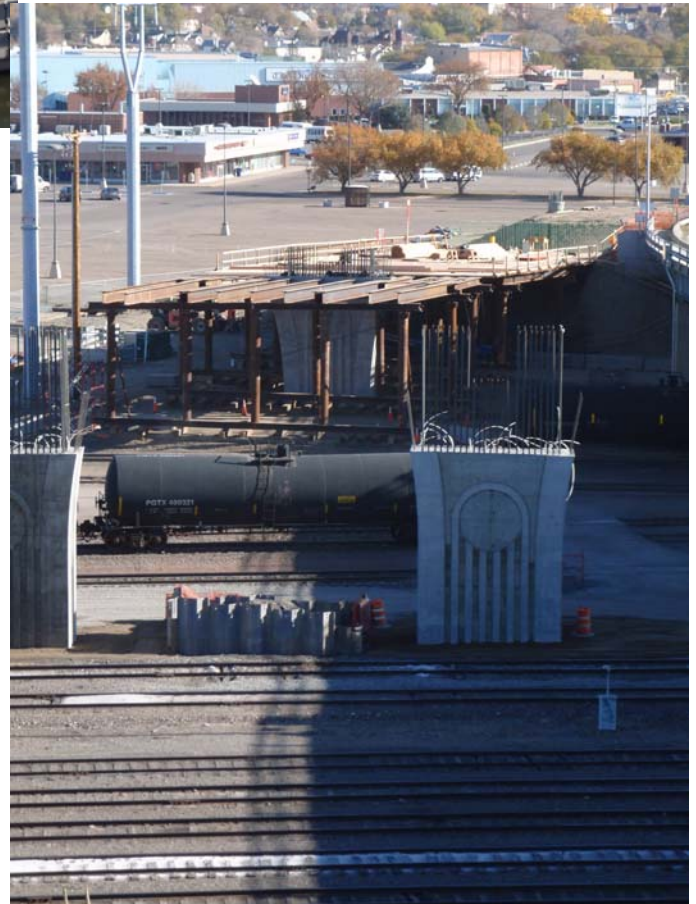
**Figure 5 – Pier 3 WB Pier Table Construction – October 28, 2008:**  
The carpenters form the flared portion of the column, which projects out from the typical web slope.





**Figure 6 – Span 1 WB CIP Superstructure Construction – October 31, 2008:**  
Flatiron begins to remove the equipment and materials from the deck following stressing and grouting operations. The falsework removal will consist of suspending the stringers from winches, removing the falsework bents, and lowering the stringers to the ground.

**Figure 7 – Span 5 WB CIP Superstructure Construction – October 31, 2008:**  
The transverse bracing is installed to the falsework stringers at Span 5 WB as the bottom slab forms are rolled out from Abutment 6 working in the downstation direction. Flatiron intends to work at Spans 1 EB and 5 WB simultaneously this winter.



**Figure 8 – Span 1 WB CIP Superstructure – November 3, 2008:** Workers strip the web and wing forms and prepare the surface prior to lowering the falsework. The shadow visible on the web (between the worker and the cantilever tip) is the extension of the pier as it flares up and transitions into the web.



**Figure 9 – Pier 3 WB Pier Table Construction – September 30, 2008:** The ironworkers begin installing the epoxy coated bottom slab, web, and diaphragm reinforcing.



**Figure 10 – Span 1 WB CIP Superstructure Construction – November 7, 2008:**

The web and wing forms are removed from the falsework using the forklift. The winches will be installed the week of November 10<sup>th</sup>.



**Project Summary:**

November 10, 2008  
 Day 330 of 1278

<b>Substructure Construction</b>	<b><u>To</u> <u>Date</u></b>		<b><u>Total</u></b>	<b><u>Unit</u></b>	<b><u>% Complete</u></b>
48" Diameter Drilled Shafts (Monuments)	3	of	4	Each	75%
48" Diameter Drilled Shafts (Abutments)	11	of	14	Each	79%
60" Diameter Drilled Shafts (Pier 2 & 5)	6	of	8	Each	75%
96" Diameter Drilled Shafts (Pier 3 & 4)	8	of	8	Each	100%
Type I Footings (Pier 2 & 5)	3	of	4	Each	75%
Type II Footings (Pier 3 & 4)	4	of	4	Each	100%
3'-6" Piers (Pier 2 & 5)	3	of	4	Each	75%
7'-1" Piers (Pier 3 & 4)	4	of	4	Each	100%
Abutments	3/4	of	2	Each	38%

<b>Superstructure Construction</b>	<b><u>To</u> <u>Date</u></b>		<b><u>Total</u></b>	<b><u>Unit</u></b>	<b><u>% Complete</u></b>
<b>Westbound</b>					
End Span CIP Westbound	1	of	2	Each	50%
Abutment Diaphragm Westbound	1	of	2	Each	50%
Pier Diaphragm Westbound	1	of	2	Each	50%
Pier Table Westbound	0	of	2	Each	0%
Cantilever 3 Segments Westbound	0	of	22	Each	0%
Cantilever 4 Segments Westbound	0	of	20	Each	0%
Closure Segments Westbound	0	of	3	Each	0%
<b>Eastbound</b>					
End Span CIP Eastbound	0	of	2	Each	0%
Abutment Diaphragm Eastbound	0	of	2	Each	0%
Pier Diaphragm Eastbound	0	of	2	Each	0%
Pier Table Eastbound	0	of	2	Each	0%
Cantilever 3 Segments Eastbound	0	of	22	Each	0%
Cantilever 4 Segments Eastbound	0	of	20	Each	0%
Closure Segments Eastbound	0	of	3	Each	0%



**Project Summary:**

**November 10, 2008  
Day 330 of 1278**

**Project Milestone Dates**

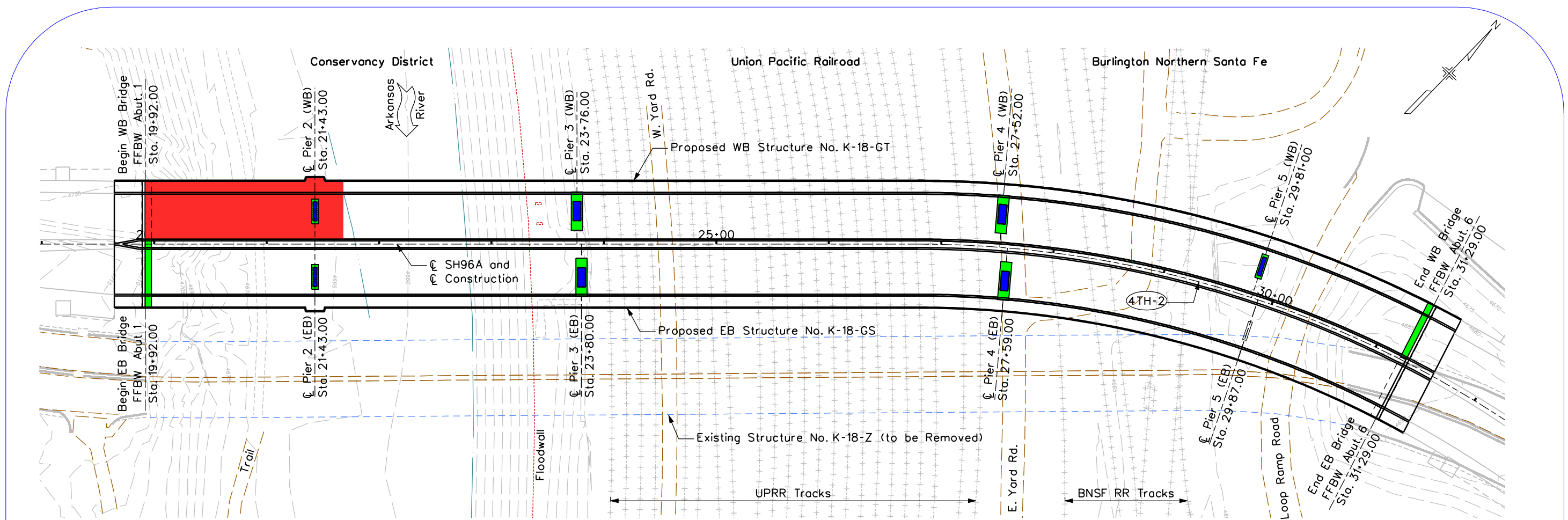
<b>Milestone Event</b>	<b>Date</b>	<b>Actual</b>
Project Award	October 18, 2007	October 18, 2007
Notice to Proceed	November 8, 2007	November 8, 2007
*Abutment 1 Drill Caissons	March 11, 2008	February 6, 2008
*Abutment 1 Cap Form/Rebar/Pour	April 1, 2008	March 6, 2008
*Pier 2 Drill Caissons	February 28, 2008	February 26, 2008
*Pier 2 Form/Rebar/Pour Footing	March 11, 2008	March 24, 2008
Pier 2 Column Form/Rebar/Pour	April 8, 2008	April 9, 2008
Pier 3 Drill Caissons	April 1, 2008	April 1, 2008
Pier 3 Form/Rebar/Pour Footing	May 27, 2008	May 27, 2008
Pier 3 Column Form/Rebar/Pour	July 24, 2008	July 25, 2008
Pier 4 Drill Caissons	June 2, 2008	June 3, 2008
Pier 4 Form/Rebar/Pour Footing	July 23, 2008	August 1, 2008
Pier 4 Column Form/Rebar/Pour	September 11, 2008	September 11, 2008
Pier 5 WB Drill Caissons	May 27, 2008	May 27, 2008
Pier 5 WB Form/Rebar/Pour Footing	June 4, 2008	June 4, 2008
Pier 5 WB Column Form/Rebar/Pour	July 2, 2008	July 1, 2008
Abutment 6 Drill Caissons	April 16, 2008	April 17, 2008
Abutment 6 Cap Form/Rebar/Pour	April 30, 2008	April 30, 2008
Span 1 WB Form/Rebar/Pour Bottom Slab/Webs/Diaphragms	August 26, 2008 (Finish)	August 29, 2008
Span 1 WB Form/Rebar/Pour Deck	October 3, 2008 (Finish)	October 10, 2008
Span 5 WB Form/Rebar/Pour Bottom Slab/Webs/Diaphragms	December 5, 2008 (Finish)	
Span 5 WB Form/Rebar/Pour Deck	December 29, 2008 (Finish)	
Span 1 EB Form/Rebar/Pour Bottom Slab/Webs/Diaphragms	January 21, 2009 (Finish)	
Span 1 EB Form/Rebar/Pour Deck	February 24, 2009 (Finish)	
Form and Pour First Pier Table – Cantilever 3 WB	December 23, 2008 (Finish)	
Form and Pour First Segment – Cantilever 3 WB	February 19, 2009	
Form and Pour First Closure – Span 2 WB	July 24, 2009 (Finish)	
Shift Traffic to New Structure	April 14, 2010	
Install Last Drilled Caissons – Abutment 6 (EB Only)	June 10, 2010	
Form and Pour Last Segment – Cantilever 4 EB	September 27, 2010	
Form and Pour Last Closure – Span 3 EB	November 22, 2010	
Complete Structure and Final Traffic Configuration	March 1, 2011 (Finish)	

**All items designated with an asterisk (\*) are based on Rev 2 Baseline Schedule submitted February 25, 2008.**

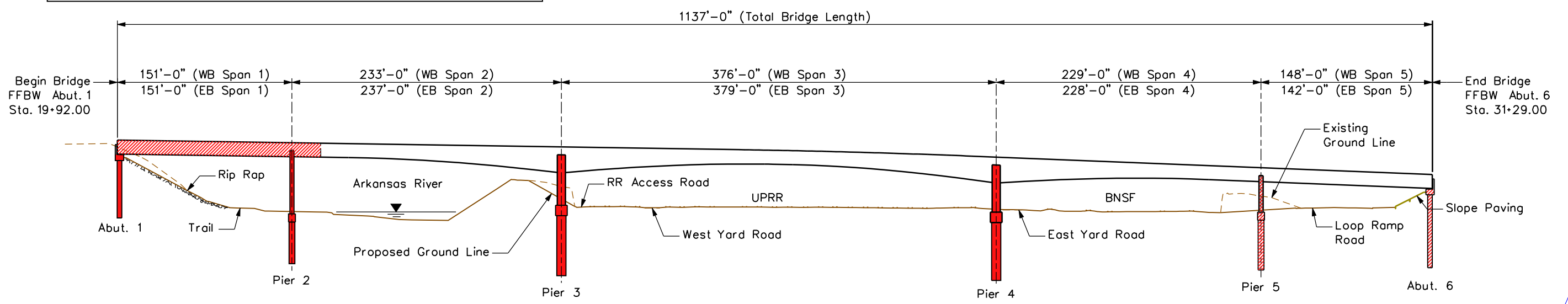
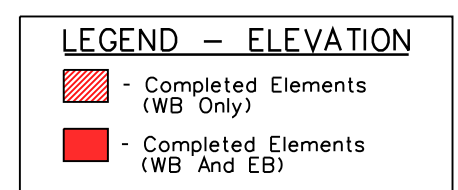
**All remaining items are estimated based on the October 14, 2008 updated project schedule.**

**All dates represent the “Start” of the activity, unless otherwise noted.**

The updated project schedule reflects milestone dates later than originally projected (in previous updates). This is mainly due to the drilled shaft subcontractor requiring more time for drilling the 8’ diameter shafts than originally anticipated. Flatiron plans to construct Span 5 WB CIP Superstructure simultaneous with Span 1 EB CIP Superstructure to improve the schedule.



PLAN



ELEVATION

