

Heartland Corridor – Clearance Project
FHWA Quarterly Status Report
 November 13, 2009

<p>Project Description: The Heartland Corridor Clearance Project will enable double-stacked international maritime and domestic containers to be transported by rail between the Hampton Roads region of Virginia and locations in the Midwest by increasing tunnel clearances and modifying other overhead obstructions in western Virginia, West Virginia, and through to Columbus, Ohio.</p>	<p>Background: The Project is described twice in Public Law 109-59, the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU). At Section 1301(m)(2) it is described as: "Heartland Corridor Project including multiple intermodal facility improvements and improvements to facilitate the movement of intermodal freight from VA to OH." At Section 1702, Project No. 5072, it is described as: "Double stack clearance of tunnels on the Norfolk and Western Mainline in Virginia located on the Heartland Corridor."</p>
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Critical Issues:

Reinstate prior year carryover of Section 1301 funds.

Budget/Costs Status: The project continues to progress as NS has made the necessary adjustments to control the project budget. Construction requirements have been tailored throughout the project to help maximize efficiency and reduce costs while maintaining quality and safety standards. A revised budget has been incorporated into the Estimate to Complete column in the table below. The Financial Plan Update has been posted on the project website.

Federal Participation							
Location	January - 07 Baseline Budget	Estimate to Complete	Expended to Date (9/30/09)	Federal Share (Up to 80%)	Federal \$ Expended (9/30/09)	Total Fed \$ Available	Federal \$ Remaining
VA	17,465,826	14,902,765	15,057,384	4,497,024	4,497,024	4,497,024	0
WV	127,804,875	169,455,647	117,610,973	80,039,283	79,459,438	80,552,507	1,093,069
FHWA/ States	1,000,000	1,000,000	727,933	727,933	727,933	1,000,000	272,067
Subtotal	146,270,701	185,358,412	133,396,290	85,264,240	84,684,395	86,049,531	1,365,136
No Federal Participation							
VA	3,024,314	2,313,818	2,511,096				
OH	1,103,968	1,099,470	1,053,800				
KY, WV, & Misc	9,284,288	6,393,450	4,191,710				
Subtotal	13,412,570	9,806,738	7,756,606				
Total	159,683,271	195,165,150	141,152,896				

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Reasons for difference between Baseline Budget and Estimate to Complete:

4/19/07 - \$1,108,179 was removed on a prorated basis from both the VA and WV federal participating and WV non-participating rows. This amount was for the planning work completed prior to the MOA and is now included in the Misc. amount. This was done to better correspond with Norfolk Southern's project accounts. Estimate to Complete total is \$263,179 higher than the January 2007 baseline due to higher actual costs for planning and higher estimates for the preliminary engineering for the Ohio bridge work.

1/23/09 – The Estimate to Complete was revised based on a revised project budget prepared by NS and approved by the NS Board of Directors in November 2008. The overall increases in the budget were due to increased construction costs. In an effort to reduce total costs, some of non-clearance related work in Kentucky and West Virginia has been cancelled. This resulted in a lower estimated cost for the work with no federal participation.

Work Completed:

- ✓ *Project Funding:* EFLHD has authorized all of the Section 1702 funds and nearly all of the Section 1301 funds. As the project gets closer to the scheduled completion date of June 2010, EFLHD will issue a final authorization to NS utilizing any remaining funds.
- ✓ *Preliminary Engineering:* Final Plan Approval was issued for Big Sandy #3 and Big Sandy #4 Tunnels on July 30, 2009. All tunnel work has now received Final Plan approval.
- ✓ *Kentucky Work:* All structural modification work is complete. Trackwork remains.
- ✓ *Ohio Work:* All clearance work in Ohio has been completed.
- ✓ *Virginia Work:* All Clearance work in Virginia has been completed.
- ✓ *West VA Work:*
 - All through truss bridge modifications are complete.
 - All signal replacements are complete.
 - Slide fence modifications: 4 out of 8 are complete.
 - Track work: 12 out of 23 tunnels are complete.
 - Structural modifications: 15 out of 20 tunnels are complete.

Work-In-Progress:

- *Project Funding:* EFLHD is working to get prior year carryover Section 1301 funds reinstated.
- *Preliminary Engineering:* The Railroad has reached an agreement with the City of Bluefield to remove the Belcher\Harding Street Bridge instead of raising the bridge. Plans are being completed by the Railroad for this work.

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- *Contractor Pre-Qualification:* RFPQ #10 was posted on the WVDOT website on November 1, 2009. This request for qualifications covers the removal of the Belcher\Harding Street Bridge in Bluefield, WV. Qualification statements are requested by November 30, 2009.

- *Tunnel Construction:*

Construction was completed on May 13, 2009 at Vaughan, Roderfield, Laurel, and Gordon Tunnels in WV. Trackwork to be completed by the Railroad at Laurel and Gordon.

Construction was completed on May 5, 2009 at Twin Branch 1 & 2 and Antler 1 & 2 Tunnels in WV. Trackwork completed by the Railroad on September 18, 2009.

Construction was completed on April 22, 2009 at Hemphill 1 & 2 Tunnels in WV. Trackwork completed by the Railroad on August 6, 2009.

Construction was completed on July 23, 2009 at Welch Tunnel in WV. Trackwork to be completed by the Railroad.

Construction is underway at Cooper Tunnel in WV. Current construction activities include removing existing liner, installing steel sets, and grouting behind sets. Work is approximately 11% complete.

Construction was completed on September 3, 2009 at Big Four No. 1 & 2, and West Vivian Tunnels in WV. Trackwork to be completed by the Railroad.

Construction was completed on September 23, 2009 at Glen Alum Tunnel in WV. Trackwork to be completed by the Railroad.

Construction was completed on September 3, 2009 at Hatfield No. 2 Tunnel in KY. Trackwork is in progress by the Railroad.

Construction is underway at Big Sandy #1 Tunnel in WV. Current construction activities include removing existing liner, installing portal spiles, and pre-drilling for roof bolts. Work is approximately 12% complete.

Construction is underway at Williamson Tunnel in WV. Current construction activities include removing existing liner and pre-drilling for roof bolts. Work is approximately 30% complete.

Johnson Western Constructors was the low bidder for the Big Sandy #3 Tunnel in WV. A contract was awarded on July 16, 2009 for \$5,945,463. A Pre-Construction Meeting was held on September 3, 2009. Current construction activities include liner removal, installing sidewall bolts, and pre-drilling crown. Work is approximately 15% complete.

R.J Corman was the low bidder for the Big Sandy #4 Tunnel in WV. A contract was awarded on August 31, 2009 for \$4,628,272. A Pre-Construction Meeting was held on

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September 24, 2009 and work started on October 5, 2009. Current construction activities include repairing sidewalls for steel sets and grouting.

- *Historical Preservation:* Historical Roadside Marker in Virginia has been installed. The installation of interpretive signs in West Virginia is being coordinated with the Coal Heritage Highway Authority. An amendment to the MOA addressing the removal of the Belcher\Harding Street Bridge in Bluefield, WV has been coordinated with the SHPOs and is currently being distributed for signatures.

Contracts:

Preliminary Engineering:	Hatch Mott MacDonald (NS)
Construction Engineering:	STV / Ralph Whitehead Associates (NS)
Cultural Resource Documentation:	TRC Solutions (EFLHD)
Cowan Tunnel:	Johnson Western Gunite (NS)
Vaughan, Roderfield, Laurel, and Gordon Tunnels:	Johnson Western Gunite (NS)
Antler 1 & 2 and Twin Branch 1 & 2 Tunnels:	LRL Construction (NS)
Hemphill 1 & 2 Tunnels:	R.J. Corman (NS)
Maybeury, Farm, and Sprigg Bridges:	L.C. Whitford Co. (NS)
Big Sandy No. 2:	Polivka International Co. (NS)
Welch Tunnel:	R.J. Corman (NS)
IPP:	Johnson Western Gunite (NS)
Cooper Tunnel:	LRL Construction (NS)
West Vivian, Big Four 1&2:	LRL Construction (NS)
Glen Alum Tunnel:	Johnson Western Constructors (NS)
Hatfield No. 2 Tunnel:	Johnson Western Constructors (NS)
Big Sandy No. 1 Tunnel:	Johnson Western Constructors (NS)
Williamson Tunnel:	Johnson Western Constructors (NS)
Big Sandy No. 3 Tunnel:	Johnson Western Constructors (NS)
Big Sandy No. 4 Tunnel:	R.J. Corman (NS)

Project Schedule/Status: The Clearance Project is on schedule for completion in the summer of 2010. Norfolk Southern continues to review the schedule and make adjustments to tunnel and trackwork sequencing to ensure that both the project and train operations are maximized. The final designs for all the tunnels have been completed and prequalified contractors have been solicited for bids. Structural modifications have been completed in 17 tunnels to date with 5 tunnels remaining to be completed. NS will continue to complete the trackwork as the structural modifications are completed.

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Project Milestones:

Activity	Planned	Actual
Advertisement of PE Contract:		June 29, 2006
PE Pre-Bid Meeting:		July 6, 2006
MOA w/ States Signed		July 11, 2006
PE Selection Panel		August 2, 2006
MOA w/ Railroad Signed		August 8, 2006
Award of PE Contract		Sep 29, 2006
EFLHD Receipt of FY 05 & 06 Funding	Nov-06	Feb 1, 2007; Mar 27, 2007
Advertisement of CE Contract:	Dec-06	Feb 1, 2007
EFLHD Receipt of FY07 Funding	Jan-07	Jun 6, 2007; Oct 25, 2007
Award of CE Contract	Mar-07	April 10, 2007
Completion of NEPA Document	Apr-07	June 13, 2007
EFLHD Receipt of FY08 Funding	Jan-08	Apr 7, 2008; Jul 2, 2008
EFLHD Receipt of FY 09 Funding	Jan-09	June 3, 2009; Aug 25, 2009

Preliminary Engineering and Construction Milestones:

70% Design		Final Design		Award of Contract		Const. Complete	
Planned	Actual	Planned	Actual	Planned	Actual	Planned	Actual
Cowan Tunnel							
Mar-07	3/5/07	Apr-07	6/20/07	Jul-07	9/18/07	Apr-08	10/27/08
Eggleston 1&2, Pembroke (by NS forces)							
NA	NA	Jun-07	Dec-07	NA	NA	Dec-07	Apr-08
Belcher\Harding Street Bridge							
NA	NA	Dec-09		Feb-10		Jun-10	
Cooper Tunnel							
Apr-07	3/5/07	May-07	9/18/08	Aug-07	11/12/08	Apr-08	
Maybeury, Farm, and Sprigg Bridges							
Sep-07	Aug-07	Nov-07	3/5/08	Feb-08	9/3/08	Jul-09	1/14/09
West Vivian, Big Four No. 1, and Big Four No. 2 Tunnels							
Sep-07	Aug-07	Nov-07	9/16/08	Feb-08	11/12/08	Jul-09	9/3/09
Huger Tunnels							
Sep-07	Aug-07	Nov-07	6/2/08	NA	NA	Jul-09	10/20/08
Welch Tunnel							
Sep-07	Aug-07	Nov-07	8/5/08	Feb-08	9/19/08	Jul-09	7/23/09
Hemphill 1 & 2 Tunnels							
Sep-07	Aug-07	Nov-07	3/10/08	Feb-08	5/13/08	Jul-09	4/22/09
Antler 1&2, Twin Branch 1&2 Tunnels							
Sep-07	4/20/07	Nov-07	8/30/07	Feb-08	1/21/08	Jul-09	5/5/09
Vaughan, Roderfield, Laurel, Gordon Tunnels							
Apr-07	3/5/07	May-07	6/20/07	Aug-07	11/28/07	Jul-08	5/13/09
Glen Alum Tunnel							
Jul-08	Aug-07	Sep-08	3/12/09	Dec-08	5/13/09	Jun-10	9/23/09

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Hatfield No. 2 Tunnel							
Jul-08	Aug-07	Sep-08	3/12/09	Dec-08	5/13/09	Jun-10	9/3/09
Williamson Tunnel							
Jul-08	Aug-07	Sep-08	4/17/09	Dec-08	7/16/09	Jun-10	
Big Sandy No. 1 Tunnel							
Jul-08	Aug-07	Sep-08	4/17/09	Dec-08	7/1/09	Jun-10	
Big Sandy No. 2 Run-around							
Sep-07	Aug-07	Nov-07	4/4/08	Feb-08	9/3/08	Jul-09	12/15/08
Big Sandy No. 3 Tunnel							
Jul-08	Aug-07	Sep-08	6/3/09	Dec-08	7/16/09	Jun-10	
Big Sandy No. 4 Tunnel							
Jul-08	Aug-07	Sep-08	7/24/09	Dec-08	8/31/09	Jun-10	
Slide Fences							
Sep-07	Aug-07	Nov-07	6/2/08	NA	NA	Jul-09	
Ohio Bridges							
NA	NA	Apr-07	7/20/07	Jul-07	11/12/07	Dec-07	9/30/08

Conclusion: The project is on schedule with final design being completed, construction contracts being completed, and a solicitation being issued for the final bridge removal. There continues to be good cooperation between all parties involved.

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