

Heartland Corridor – Clearance Project
FHWA Quarterly Status Report
May 15, 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:

Federal Funds - Have not received Fiscal Year 2009 Section 1301 or Section 1702 funds.

Budget/Costs Status: The project continues to progress as NS has made the necessary adjustments to control the project budget. Working with the construction management team and the contractors performing the work, NS has tailored some of the construction requirements to help maximize efficiency and reduce costs while maintaining quality and safety standards. NS developed a revised project estimate to account for increased construction costs and it was approved by the NS Board of Directors in November 2008. This revised budget has been incorporated into the Estimate to Complete column in the table below. The Financial Plan has been revised to reflect these changes and will be sent out for signatures in May.

Federal Participation							
Location	January - 07 Baseline Budget	Estimate to Complete	Expended to Date (3/31/09)	Federal Share (Up to 80%)	Federal \$ Expended (3/31/09)	Total Fed \$ Available	Federal \$ Remaining
VA	17,465,826	14,902,765	15,028,893	4,409,724	3,540,755	4,409,724	868,969
WV	127,804,875	169,455,647	75,187,105	60,149,684	44,004,059	78,958,607	34,954,548
FHWA/ States	1,000,000	1,000,000	702,028	702,028	702,028	1,000,000	297,972
Subtotal	146,270,701	185,358,412	90,918,026	65,261,436	48,246,842	84,368,331	36,121,489
No Federal Participation							
VA	3,024,314	2,313,818	2,370,745				
OH	1,103,968	1,099,470	1,053,620				
KY, WV, & Misc	9,284,288	6,393,450	1,477,211				
Subtotal	13,412,570	9,806,738	4,901,576				
Total	159,683,271	195,165,150	95,819,602				

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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:* In a Letter of Authorization from EFLHD dated December 3, 2008, the funds authorized under Section 1301 were increased by \$4,960,375 which increases the amount authorized for all activities in West Virginia to \$63,225,839. These funds represent the Federal funds available at this time. Once the Section 1301 and Section 1702 funds have been received for Fiscal Year 2009, a Letter of Authorization will be issued for additional approved work.
- ✓ *Ohio Work:* All clearance work in Ohio has been completed.
- ✓ *Virginia Work:* All Clearance work in Virginia has been completed.
- ✓ *West VA Work:*
 - Slide fence modification at N-351.95 is complete
 - Slide fence modification at N-399.9 is complete
 - Track lowering at Huger Tunnel M1 and M2 is complete
 - Steel truss modifications complete at Maybeury, Farm, and Sprigg
 - Signal replacements at N-379.72, N-387.15 and N-388.47 complete
 - Track modifications at Big Sandy #2 are complete
 - Structural modifications in Antler 1 & 2 Tunnel are complete
 - Structural modifications in Twin Branch 1 & 2 Tunnel are complete
 - Structural modifications at Hemphill 1 Tunnel are complete
 - Structural modifications at Vaughn, Roderfield, Laurel and Gordon Tunnels are complete.

Work-In-Progress:

- *Project Funding:* EFLHD has requested Section 1301 and Section 1702 funding for FY 2009. FY 2009 is the final year for the distribution of funds that were included in SAFETEA-LU.

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- *Preliminary Engineering:* On April 17, 2009 100% plans were distributed for Big Sandy #1 and Williamson Tunnels. HMM is working to complete the final designs for the remaining two tunnels, Big Sandy # 3 & #4.
- *Contractor Pre-Qualification:* RFPQ #9 was posted on the WVDOT website on December 29, 2008. This request for qualifications covered the last four tunnels included in the Clearance Project. Qualification statements were requested by January 30, 2009. No new contractors were prequalified through this RFPQ.
- *Tunnel Construction:*

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

Construction was completed on May 5, 2009 at Twin Branch 1 & 2 and Antler 1 & 2 Tunnels in West Virginia. Trackwork to be completed by the Railroad.

Construction is nearly complete at Hemphill 1 & 2 Tunnels in WV. Current construction activities include repairing a water leak in Hemphill 2. Trackwork to be completed by the Railroad.

Polivka International Company, Inc. was the low bidder for the track relocation work at Big Sandy No. 2 Tunnel in WV. Construction of the roadbed and track re-alignment has been completed.

RJ Corman was the low bidder for Welch Tunnel in WV. A contract was awarded on September 19, 2008 for \$9,493,434.55. The IPP classification is nearing completion and crown grouting is in progress. Work is approximately 15% complete.

LRL Construction Company was the low bidder for Cooper Tunnel in WV. A contract was awarded on November 12, 2008 for \$5,562,658.00. Investigative Probing Program to start on May 16, 2009.

LRL Construction Company was the low bidder for Big Four No. 1 & 2, and West Vivian Tunnels in WV. A contract was awarded on November 12, 2008 for \$10,859,573.00. The Contractor started work on February 17, 2009. Current construction activities include grouting, installing rockbolts, and notching. Work is approximately 20% complete.

Johnson Western Gunitite Company was the low bidder for the Investigative Probing Program (IPP) including six tunnels in WV. A contract was awarded on November 11, 2008 for \$2,540,600.00. The Contractor started work on December 8, 2008 and complete the work in April 2009.

A pre-bid meeting for Glen Alum Tunnel in WV and Hatfield Tunnel in KY was held on March 26, 2009 and bids were due on April 16, 2009. Bids have been received but a contract has not been awarded yet.

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A pre-bid meeting for Big Sandy No.1 and Williamson Tunnels in WV was scheduled for May 14, 2009 and bids are due June 2, 2009.

- *Historical Preservation:* Installation of a Historical Roadside Marker in Virginia has been coordinated and approved by VA DHR. The installation of interpretive signs in West Virginia is being coordinated with the Coal Heritage Highway Authority. A site visit was held in April 2009 to identify potential locations for the signs in West Virginia.

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)

Project Schedule/Status: The Clearance Project is on schedule for completion in the summer of 2010. Norfolk Southern continues to review the schedule and has made adjustments to tunnel sequencing to ensure that both the project and train operations are maximized. The Investigative Probing Program has been completed and will provide the necessary information to complete the design for the remaining tunnels. As the final designs are completed, prequalified contractors will be solicited for bids.

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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	
Ohio Bridges		
Final Design Completed	Apr-07	July 20, 2007
Award of Construction Contract	Jul-07	November 12, 2007
Completion of Construction	Dec-07	September 30, 2008
Cowan Tunnel		
70% Design Completed	Mar-07	March 5, 2007
Final Design Completed	Apr-07	June 20, 2007
Award of Construction Contract	Jul-07	September 18, 2007
Completion of Construction	Apr-08	Nov-2008
Eggleston 1&2, Pembroke (by NS forces)		
Final Design Completed	Jun-07	Dec-2007
Completion of Construction	Dec-07	Apr-2008
Roderfield, Laurel, Gordon, Vaughan		
70% Design Completed	Apr-07	March 5, 2007
Final Design Completed	May-07	June 20, 2007
Award of Construction Contract	Aug-07	November 28, 2007
Completion of Construction	Jul-08	May 13, 2009
Antler 1&2, Twin Branch 1&2		
70% Design Completed	Sep-07	April 20, 2007
Final Design Completed	Nov-07	August 30, 2007
Award of Construction Contract	Feb-08	January 21, 2008
Completion of Construction	Jul-09	May 5, 2009
Cooper		
70% Design Completed	Apr-07	March 5, 2007
Final Design Completed	May-07	September 18, 2008
Award of Construction Contract	Aug-07	November 12, 2008
Completion of Construction	Apr-08	
Hemphill 1 & 2 Tunnels		
70% Design Completed	Sep-07	August 2007

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Final Design Completed	Nov-07	March 10, 2008
Award of Construction Contract	Feb-08	May 13, 2008
Completion of Construction	Jul-09	
Maybeury, Farm, and Sprigg Bridges		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	May 5, 2008
Award of Construction Contract	Feb-08	September 3, 2008
Completion of Construction	Jul-09	January 14, 2008
Bid Sandy #2		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	April 4, 2008
Award of Construction Contract	Feb-08	September 3, 2008
Completion of Construction	Jul-09	December 2008
Hugers Tunnels		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	June 2, 2008
Completion of Construction	Jul-09	October 20, 2008
Welch Tunnel		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	August 5, 2008
Award of Construction Contract	Feb-08	September 19, 2008
Completion of Construction	Jul-09	
Slide Fences		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	June 2, 2008
Completion of Construction	Jul-09	
West Vivian, Big Four No. 1, and Big Four No. 2 Tunnels		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	September 16, 2008
Award of Construction Contract	Feb-08	November 12, 2008
Completion of Construction	Jul-09	
2009 Tunnels and Bridges		
70% Design Completed	Jul-08	August 2007
Final Design Completed	Sep-08	
Award of Construction Contract	Dec-08	
Completion of Construction	Jun-10	

Conclusion: The project is on schedule with contracts being awarded, additional solicitations being issued for construction bids, and designs being completed. Lessons learned during the early contracts have been utilized to refine the designs of the remaining tunnels. There continues to be good cooperation between all parties involved.

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