

Heartland Corridor – Clearance Project
FHWA Quarterly Status Report
 November 2, 2007

<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:

- FY 2008 Section 1301 and 1702 funds

Budget/Costs Status: The project is continuing to progress and the estimate to complete will be adjusted as final designs are completed and additional construction contracts are awarded later in the fall and winter of 2007/2008.

Federal Participation							
Location	January - 07 Baseline Budget	Estimate to Complete	Expended to Date (9/30/07)	Federal Share (80%)	Federal \$ Expended	Total Fed \$ Available	Federal \$ Remaining
VA	17,465,826	17,432,826	478,995	383,196	90,679	4,320,000	4,229,321
WV	127,804,875	127,045,875	5,768,040	4,614,432	3,946,134	77,316,107	73,369,973
FHWA/ States	1,000,000	1,000,000	342,449	342,449	342,449	1,000,000	657,551
Subtotal	146,270,701	145,478,701	6,589,484	5,340,077	4,379,262	82,636,107	78,256,845
No Federal Participation							
VA	3,024,314	2,925,314	247,230				
OH	1,103,968	1,248,968	391,159				
KY, WV, & Misc	9,284,288	10,293,467	1,108,757				
Subtotal	13,412,570	14,467,749	1,747,146				
Total	\$159,683,271	\$159,946,450	\$8,336,630				

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.

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Work Completed:

- ✓ *Project Funding:* In a Letter of Authorization from EFLHD dated July 31, 2007, Norfolk Southern was authorized Section 1301 funds in the amount of \$8,408,244 for the Federal share of construction work in West Virginia (Roderfield, Laurel, and Gordon Tunnels) and Section 1702 funds in the amount of \$757,536 for the Federal share of construction work in Virginia (Cowan Tunnel). Total authorized to date for PE, CE, and CN is \$20,550,908 for Section 1301 and \$1,716,300 for Section 1702.
- ✓ *Preliminary Engineering:* Final plans and specifications were completed by the Railroad and approved by EFLHD on August 30, 2007 for Antler 1&2, Twin Branch 1&2, and Vaughan Tunnels in West Virginia. All of the remaining tunnels have been through 70% distribution. The 95% deliverables were distributed for Welch, Hemphill No. 1 & 2, Glen Alum, and Hatfield Main No. 2 Tunnels on October 5, 2007.
- ✓ *Contractor Pre-Qualification:* A third Request for Pre-Qualification was posted on the West Virginia DOT web site on August 9, 2007. Contractor qualification statements were due August 29, 2007. A selection panel reviewed the qualification statements on September 4, 2007 and determined that two new contractors were qualified and will be given the opportunity to bid. This brings the total of pre-qualified contractors to 12.
- ✓ *Historical Preservation:* The Memorandum of Agreement was finalized and the last concurring party signed on August 31, 2007. The MOA was posted to the project website. A contract was signed on July 11, 2007 with TRC Solutions to perform the cultural resource documentation stipulated in the MOA.

Work-In-Progress:

- *Project Funding:* EFL has requested from Federal Lands Highway Headquarters an allocation for the FY 2008 Section 1301 and 1702 funds to be used in West Virginia and Virginia respectively. At this time, HQ has not received an allotment for these funds. These funds can be utilized in FY 2008.
- *Preliminary Engineering:* 95% plans and specifications for Welch, Hemphill No. 1 & 2, Glen Alum, and Hatfield Main No. 2 Tunnels have been completed and were distributed on October 5, 2007. HMM is continuing to make good progress on the remaining tunnels.
- *Tunnel Construction:* A contract for the Cowan Tunnel in Virginia was awarded to Johnson Western Gunitite Co., Inc. on September 18, 2007. The contract price was \$10,725,896.60. A pre-construction conference was held September 20, 2007 and the first track outages for work began on October 20, 2007.

Bid documents for the first group of tunnels in WV were distributed on June 29, 2007 to the pre-qualified contractors with bids due August 2, 2007. The invitation for bids was cancelled for the WV tunnels since only one bid was received and it was determined to be

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unreasonable. The bid documents were repackaged for Roderfield, Laurel, and Gordon Tunnels with the addition of Vaughan Tunnel and were distributed on September 10, 2007 to the pre-qualified contractors with bids due October 17, 2007. The bids are currently being evaluated.

Bid documents for the second group of tunnels in WV (Twin Branch 1 & 2, Antler 1 & 2) will be distribute in early November with a pre-bid meeting scheduled for November 13, 2007.

- *Ohio Bridge Construction:* Steel modifications have been completed by Railroad forces at N-634.74 and work is now underway at N-653.84. Plans have been completed for the track work and grading required at N-579.83 and the Railroad is close to awarding a contract for this work.
- *Historical Preservation:* TRC Solutions has completed the field work for the cultural resource documentation. Sample documentation has been submitted to the WV and VA SHPOs and has received preliminary approval. TRC is currently working on the report and the final submittals to the SHPOs.

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)

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Project Schedule/Status: Project is generally on schedule. Norfolk Southern is continuing to review the schedule to ensure that both the project and train operations are maximized. This review is resulting in the acceleration of the design of the remaining tunnels with the possible acceleration of the construction of the remaining tunnels. The acceleration of the construction schedule will be dependent on what the construction market is capable of supporting.

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	
EFLHD Receipt of FY 09 Funding	Jan-09	
Ohio Bridges		
Final Design Completed	Apr-07	July 20, 2007
Award of Construction Contract	Jul-07	
Completion of Construction	Dec-07	
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	
Eggleston 1&2, Pembroke (by NS forces)		
Final Design Completed	Jun-07	
Completion of Construction	Dec-07	
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	
Completion of Construction	Jul-08	
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	
Completion of Construction	Jul-09	
Cooper		
70% Design Completed	Apr-07	March 5, 2007

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Final Design Completed	May-07	
Award of Construction Contract	Aug-07	
Completion of Construction	Apr-08	
2008 Tunnels and Bridges		
70% Design Completed	Sep-07	August 2007
Final Design Completed	Nov-07	
Award of Construction Contract	Feb-08	
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 continues to gain momentum with contracts being awarded, additional solicitations for construction bids, and designs being completed. There was a slight set-back with the limited number of bids received on the first tunnels, but with lessons learned, we anticipate better results on future solicitations. There continues to be good cooperation between all parties involved.

<i>Contacts:</i>	
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