

Heartland Corridor

Walton, VA to Columbus, OH

Double Stack Clearance Project Construction Inspection Pre-Proposal Meeting

Safety Briefing

Project Manager StructuresJoe Fowler

Federal Project Manager





State Sponsoring Agencies



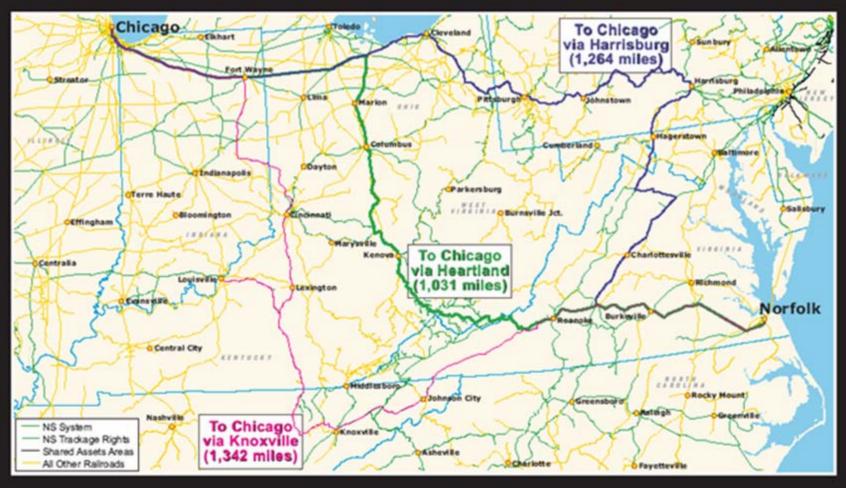
OHIO RAIL DEVELOPMENT COMMISSION



Heartland Corridor Norfolk to Chicago







Heartland Clearance Project



Double-Stack Project:

Current Clearance: 19'1" for multi-levels only

Proposed: 20'9" for high-cube double-stacks



Project Overview

- Double Stack Clearance Project Federal Funding Portion
 - 25 Tunnels included (1-VA, 24-WV) all lined
 - 4 Through Truss Modifications
 - 2 Overhead Bridges require track lowering/bridge raising
 - Slide Fence Modifications8 locations

Project Overview

- Double Stack Clearance Project non– Federal Funded Portion
 - 5 Tunnels included (3-VA, 2-KY) 4 lined
 - 4 Through Truss Modifications NS forces
 - 1 Overhead Bridge requires track shifting

Preliminary Engineering

- Hatch Mott MacDonald
- Link to reports: http://www.nscorp.com/nscorphtml/ engineering/heartland.html
- Password: Railroad06





Field Investigations

- 2005 Study to Identify Clearance Issues
- Tunnels
- Thru Truss Bridges
- Highway Overpasses
- Slide fences, utilities and other facilities
- Total of 67 sites

Field Investigations

- 30 Tunnels Along Corridor
- Lengths from 170' to 3,300' (4.5 Mi)
- Field Investigation to identify:
 - Clearance Deficiencies (laser car)
 - Verify Structural Conditions
 - Geology & Geotechnical Parameters

Design Engineering





delivering solutions



Anderson & Associates
Professional Design Services

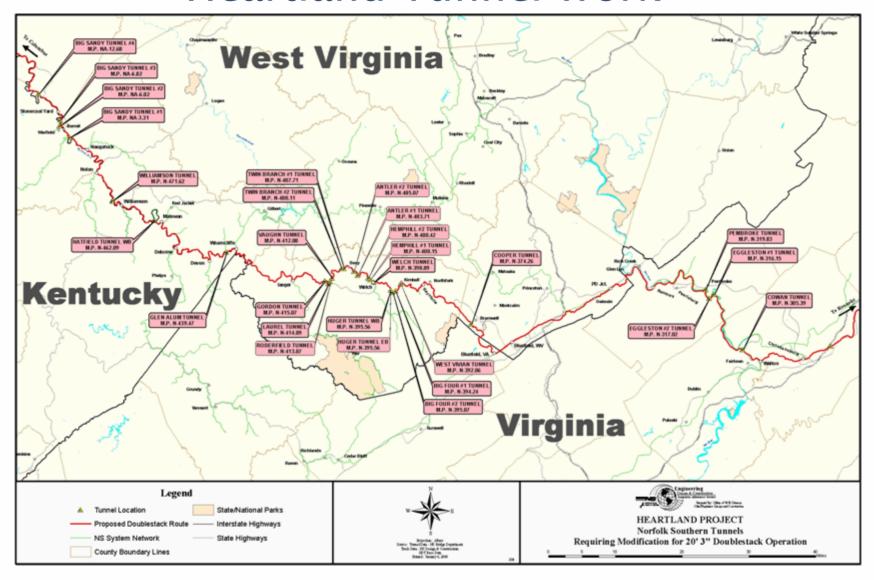




RALPH WHITEHEAD ASSOCIATES, INC.

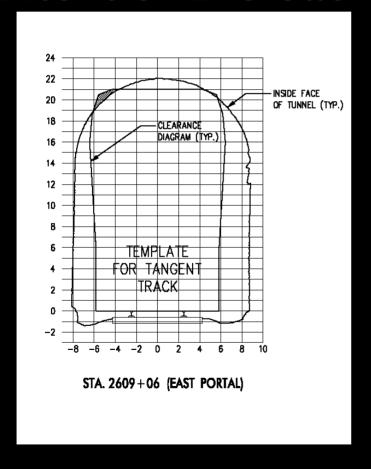
ENGINEERING SUCCESS

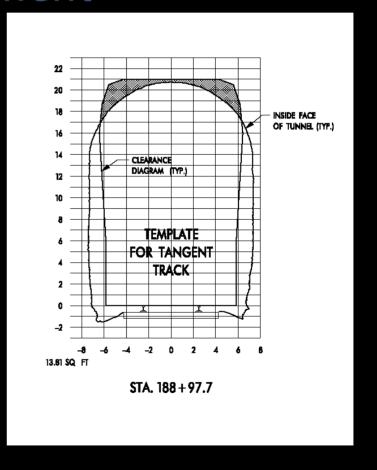
Heartland Tunnel Work



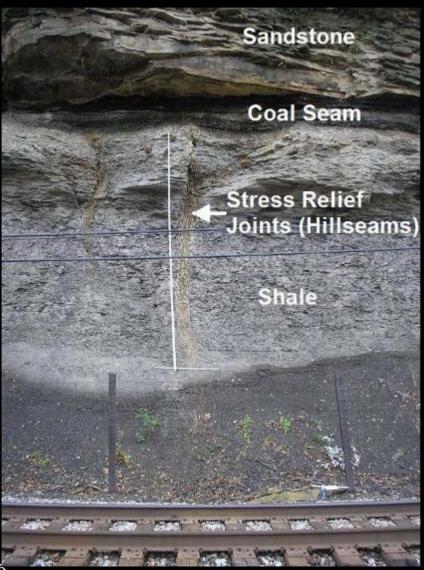
Design Considerations

Extent of Encroachment





Design Conditions

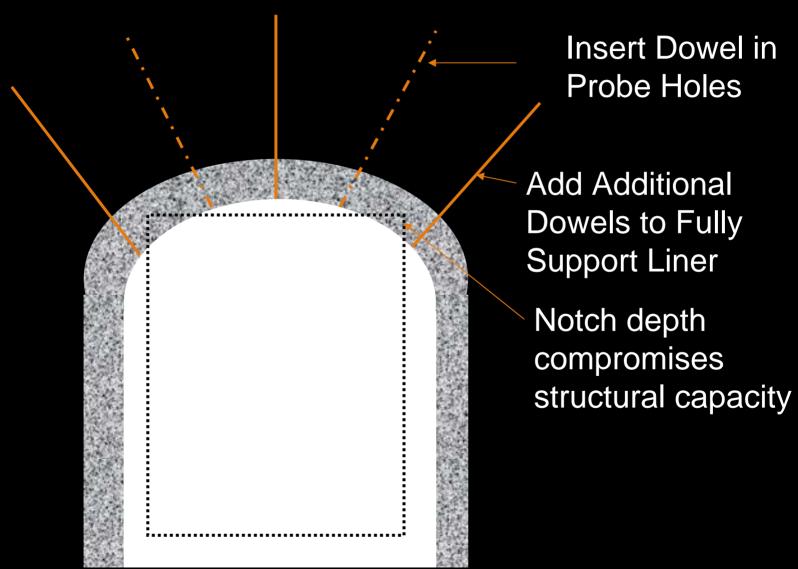


Geotechnical Parameters

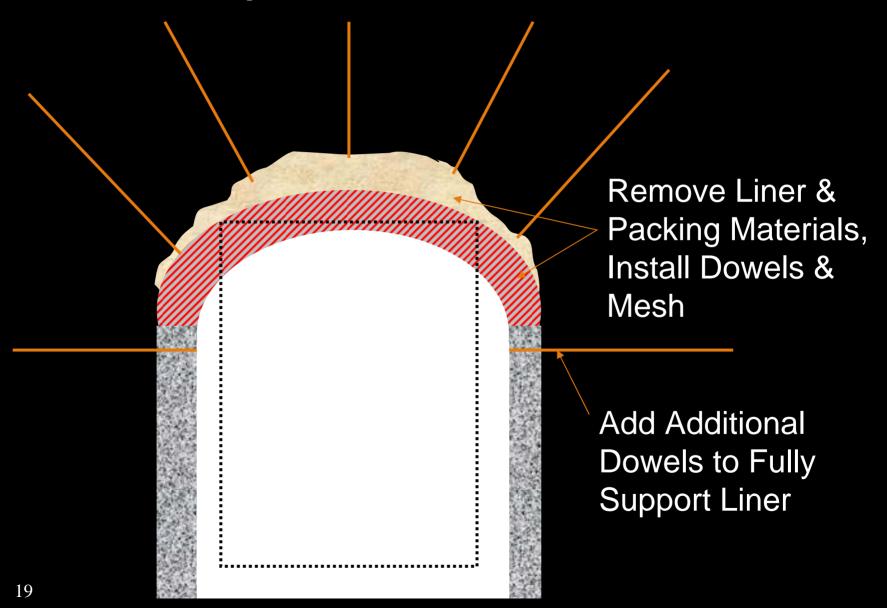
Clearance Improvement Methods

- Notching
 - Minor Notching
 - Deep Notching
- Lining Replacement
- Daylighting

Deep Notching (7 Tunnels)



Liner Replacement (17 Tunnels)



Daylighting (1 Tunnel)

Limited applications



Special Requirements



- FRA Roadway Worker and Bridge Worker Safety
- e-Railsafe at e-Verifile.com background checks and identification badges
- Norfolk Southern Safety Rules

Proposals

- Due 5:00 PM, March 1, 2007
- Qualifications/Technical Proposal and cost proposal must be submitted in separate folders – cost sealed
- Will be reviewed by a joint FHWA/NS selection committee
- Only the best qualified price proposal will be opened first. This may be accepted or be negotiated. If negotiations fail, then we will go to the next best qualified and follow the same process.

Selection Criteria

 Firm Qualifications, with focus on experience gained in successful completion of similar clearance improvements performed under traffic on a Class 1 railroad (30 points)



Selection Criteria

 Qualifications of Key Personnel, specialized experience and technical competence in the type of work required, including where appropriate, experience in energy conservation, pollution prevention, waste reduction, and the use of recovered materials - 25 points

Selection Criteria

- Adequacy of Resources to perform the work – 20 points
- Past performance on contracts with government agencies and private industry in terms of cost control, quality of work, and compliance with performance schedules. – 15 points
- Location in the general geographic area of the project and knowledge of the locality of the project. – 10 points

Project Schedule

- Completion Mid 2010
 - Environmental Studies
 - FHWA Handling
 - 70 % Final Design
 - Concurrent with Environmental Studies
 - Due March 2007 for first packages
 - Start Construction June 2007
 - Multi-Tunnel Packages
 - Scheduled to Minimize Track Time Requirements

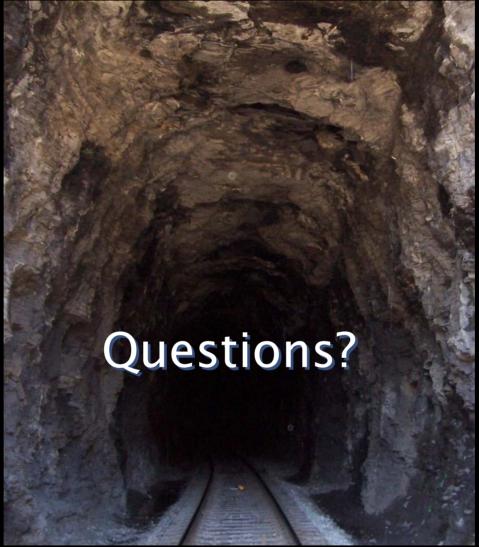


Heartland Corridor



Thank you for coming!





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