



ROUTE 58 LOVERS LEAP PROJECT

 Ken King, PE, Salem District Engineer

December 9, 2020

Route 58 in Virginia

Route 58 Corridor Development Fund

2003 PPTA agreement with Branch Civil Inc.

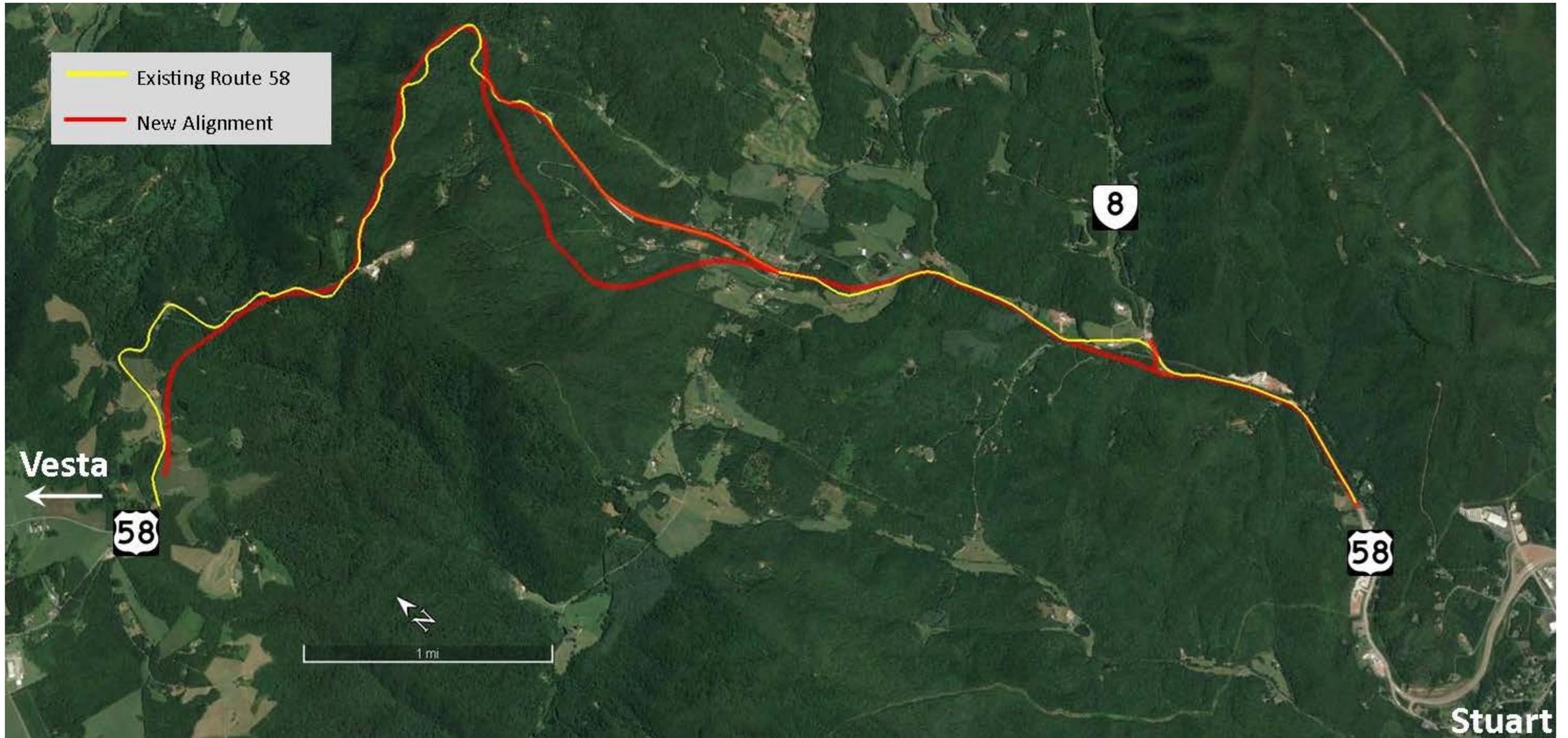
- Improve Route 58 - Hillsville to Stuart (36 miles)

Lovers Leap Prioritized as next segment

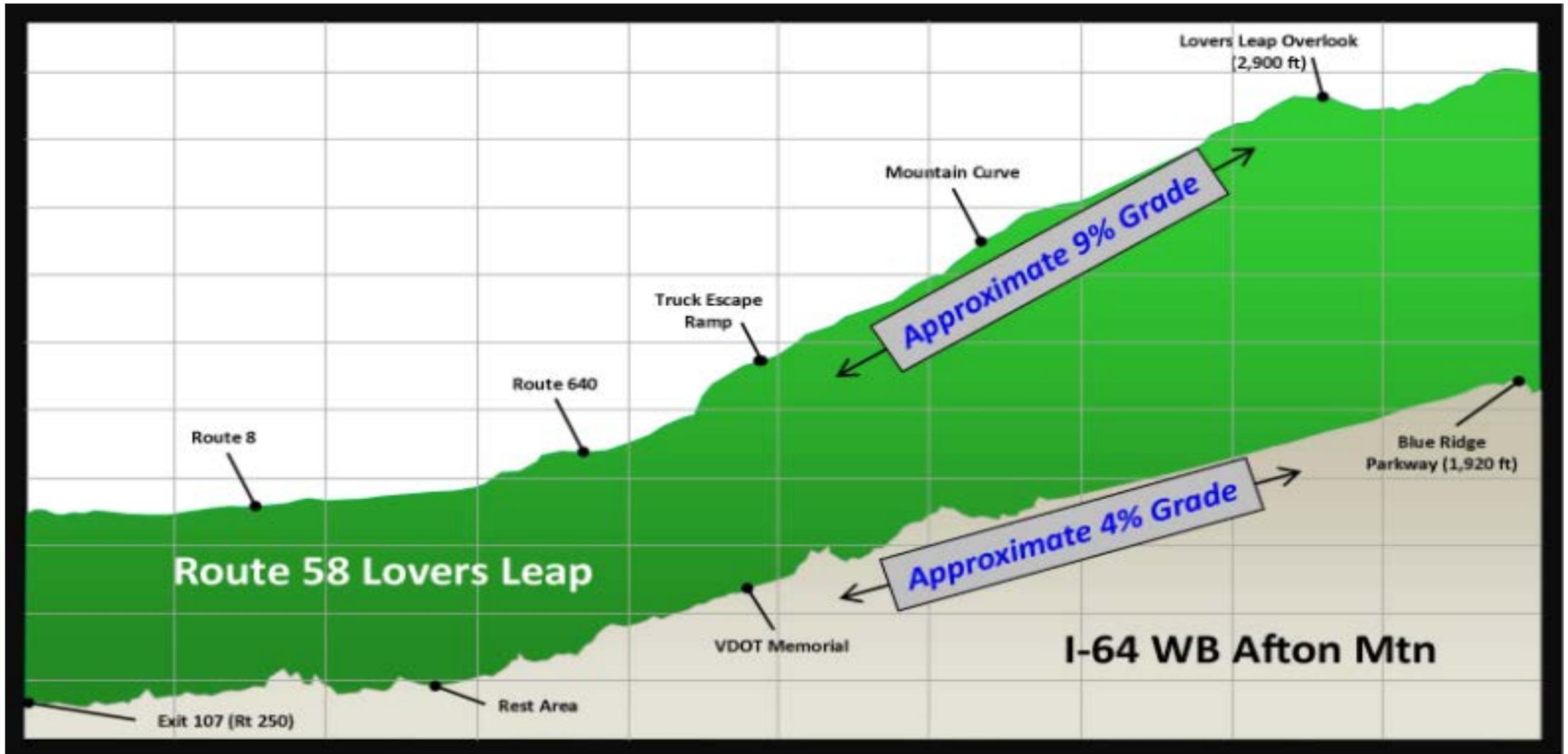
- Widens 7.4 miles over Lovers Leap Mountain
- Improves roadway grade and alignment



Route 58 – Lovers Leap Alignment



Lovers Leap versus WB I-64 Afton Mountain Elevations



Design and Permitting Activities

Refreshed 1990s preliminary design

Updated environmental review

Ensured environmental permits could be issued

Innovative Project Approach

Used a Progressive Design Build (PDB) process to advance the project

Co-located staff to increase collaboration and expedite decision making

Team members

- **Branch Civil Inc. (BCI)**
- **Salem District Project Delivery Team**
- **Central Office Environmental Division**
- **Central Office Construction Division**
- **Central Office Alternative Project Delivery Division**

Project Development Activities

Updated design

- Revised slopes to current standards
- Developed and evaluated design refinements

Completed draft environmental permit application

- Coordinated with federal and state regulatory agencies

Estimated project cost

- Independent cost estimate prepared by Michael Baker International
- BCI prepared project cost estimate
- Evaluated collaboratively via line-item, open-book review
- Significant gap identified in a few key areas

Project Pricing and Negotiation

Identified major differences in specific areas

- Design fee
- Excavation costs
- Construction duration

Innovative Approach - Obtained multiple subcontractor proposals

- VDOT directed solicitation of proposals from subcontractors in these areas
- Three design proposals and six excavation subcontractor proposals received

Negotiated final cost

- VDOT and BCI executives met multiple times (June - September)
- Detailed line-item, open-book review
- Final cost validated against the independent cost estimate

Route 58 Lovers Leap Project Process Outcome

Design-Build Project - \$300 million

Amended PPTA agreement executed - November 6, 2020

Notice to Proceed issued - November 30, 2020

Project completion - Late Spring 2026

Project Takeaways and Lessons Learned

Progressive Design Build approach and co-location (BCI, CO and District)

Promoted open communication and trust among team members

Facilitated collaboration and teamwork

Expedited decision making

Project Takeaways and Lessons Learned

Supported flexibility throughout the design and development process

Identified and evaluated risks from varying perspectives

Gained valuable insight from line-item, open-book pricing and solicitation of subcontractor proposals

Ensured fair and reasonable price for both parties

Provided a better understanding of the PDB process

