



DESIGN PUBLIC HEARING

Route 220 Safety Improvement Project

State Project Numbers: 0220-011-786

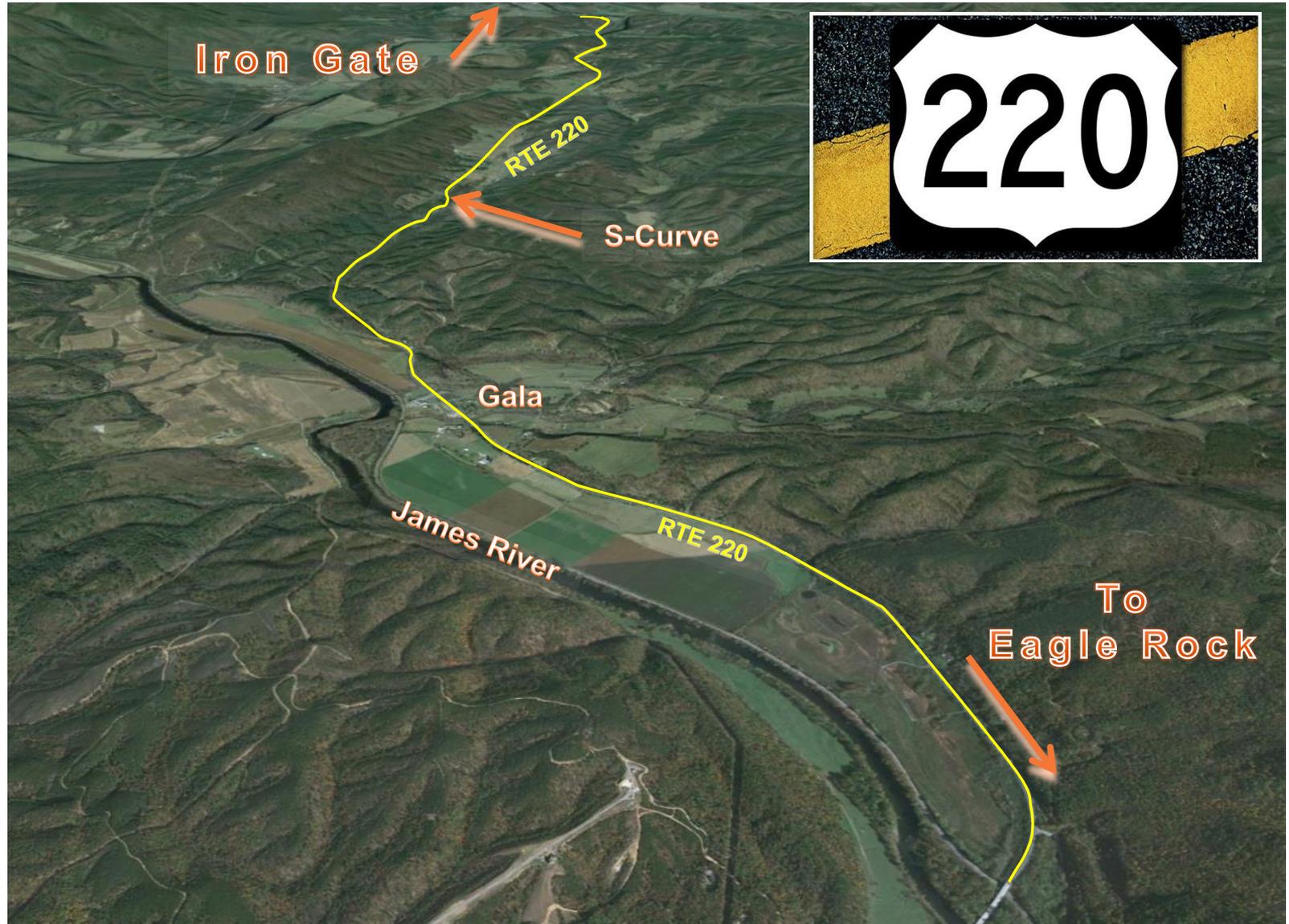
UPC: 105543

Federal Number: NH-5128(326)

December 8, 2016

Salem District

Route 220 Safety Improvement Project

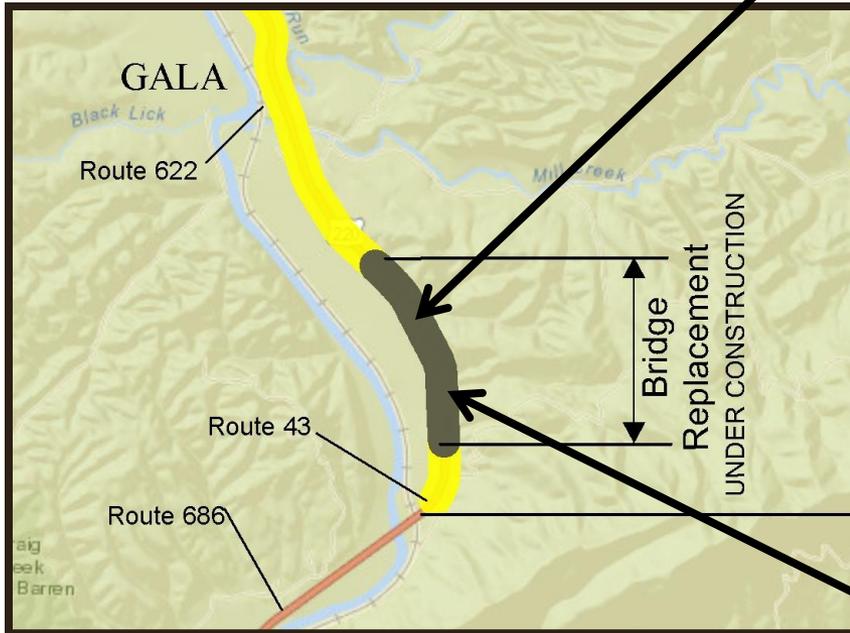


Separate Project UPC 103210



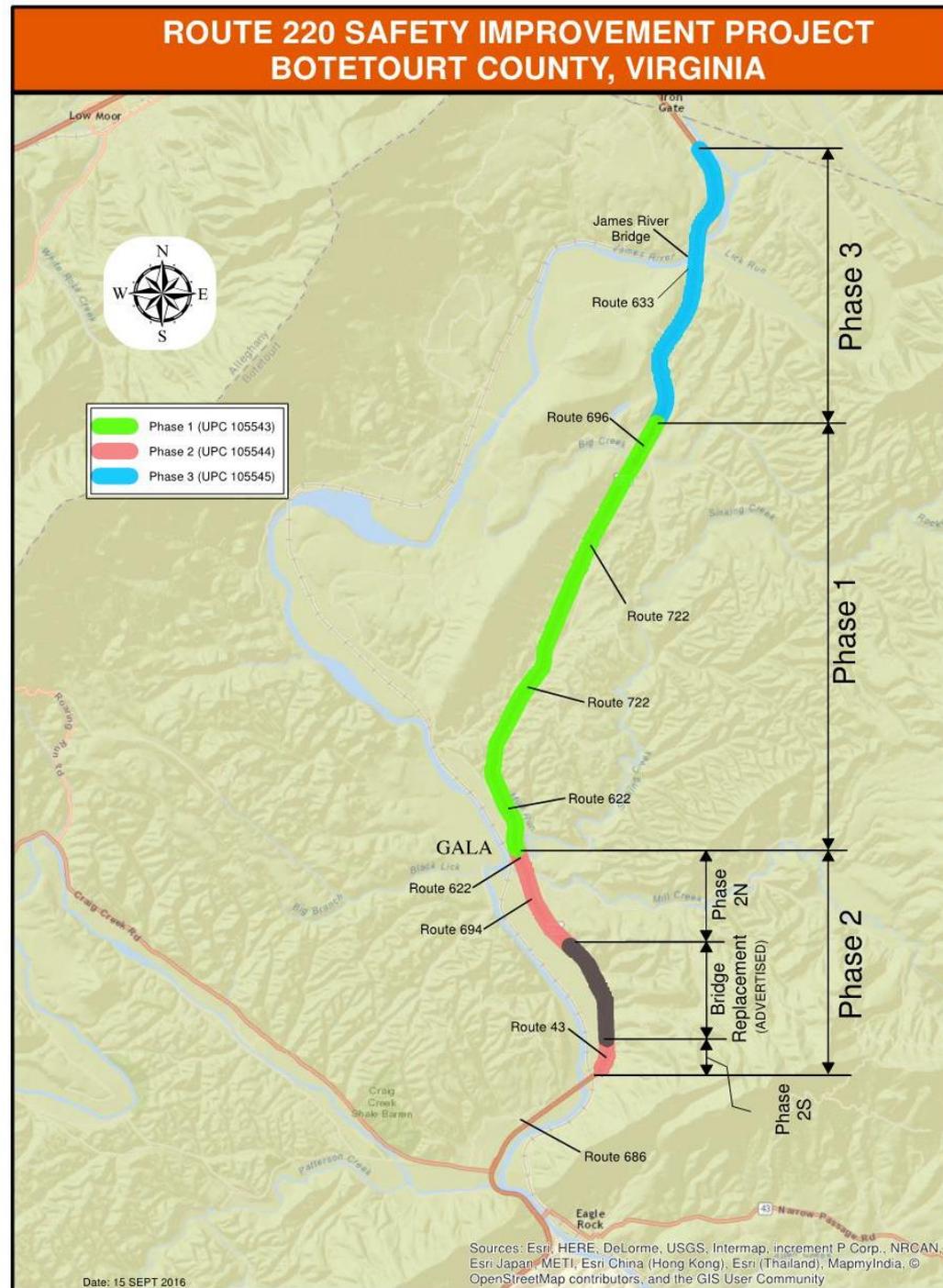
Bridge Replacement Project

- Total Estimated Cost: \$9 Million
- Not included in the \$79 Million
- Consistent Design
- Begin Construction: Summer 2016
- End Construction: Summer 2018



Original Project Implementation Plan

- Originally Planned to be built in three (3) phases.
- Initial Estimate: \$150M
- Available Funding: \$79 Million
- SMART Scale Applications did not yield additional funds



Route 220 Safety Improvement Project:

Design-Build Process

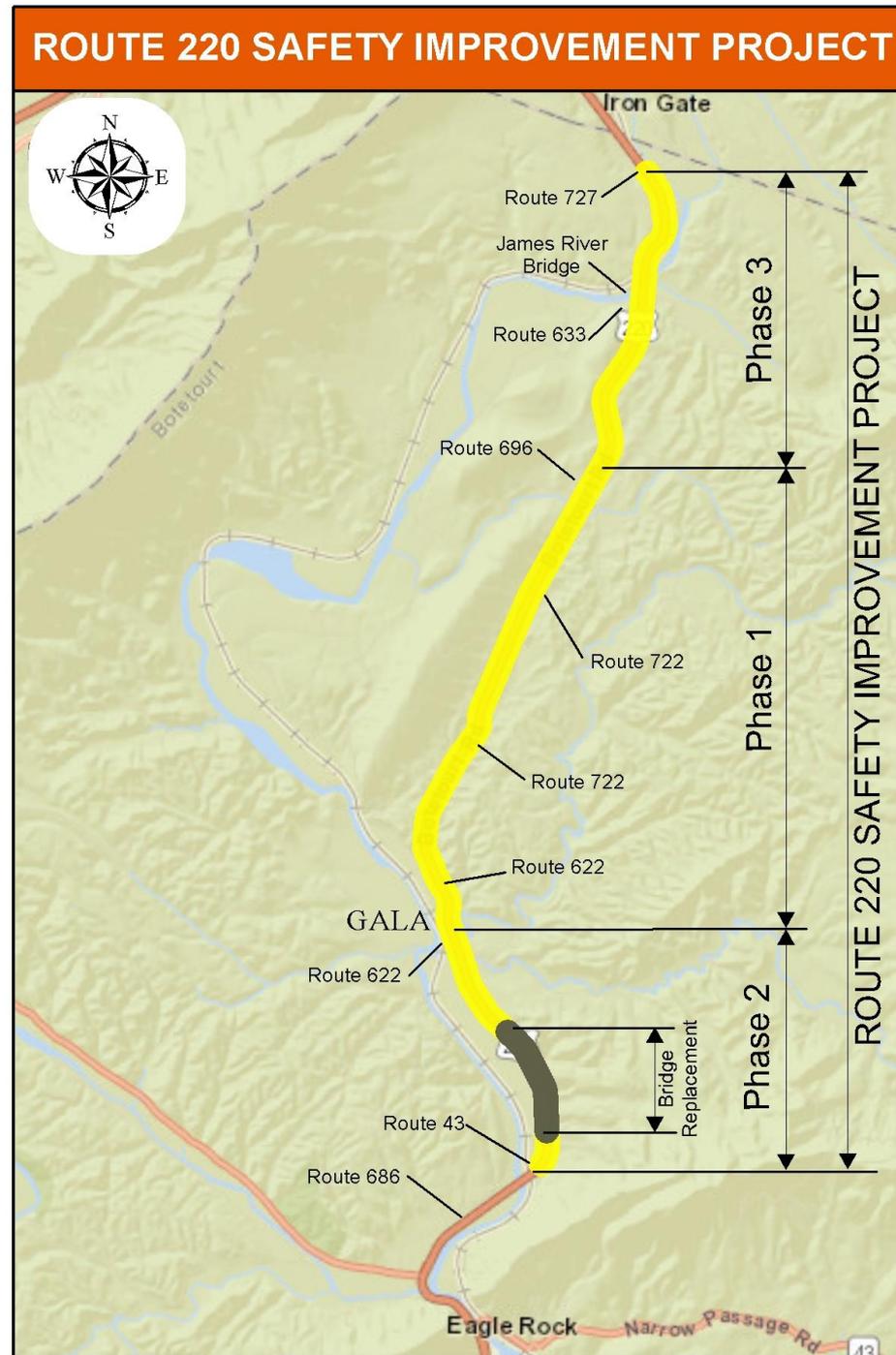
- Preliminary plans (Approximately 30%) provided to Design-Builder
- Opportunity for more innovation in design and construction techniques
- Potential to deliver more improvements within the project corridor
- Expediting design and construction to complete the project sooner



Current Project Implementation Plan

- Available Funding: \$79 Million
- Re-focused effort to implement targeted safety improvements
 - ✓ Incorporated all 3 phases within \$79 million budget
 - ✓ Single design-build contract for all 3 Phases

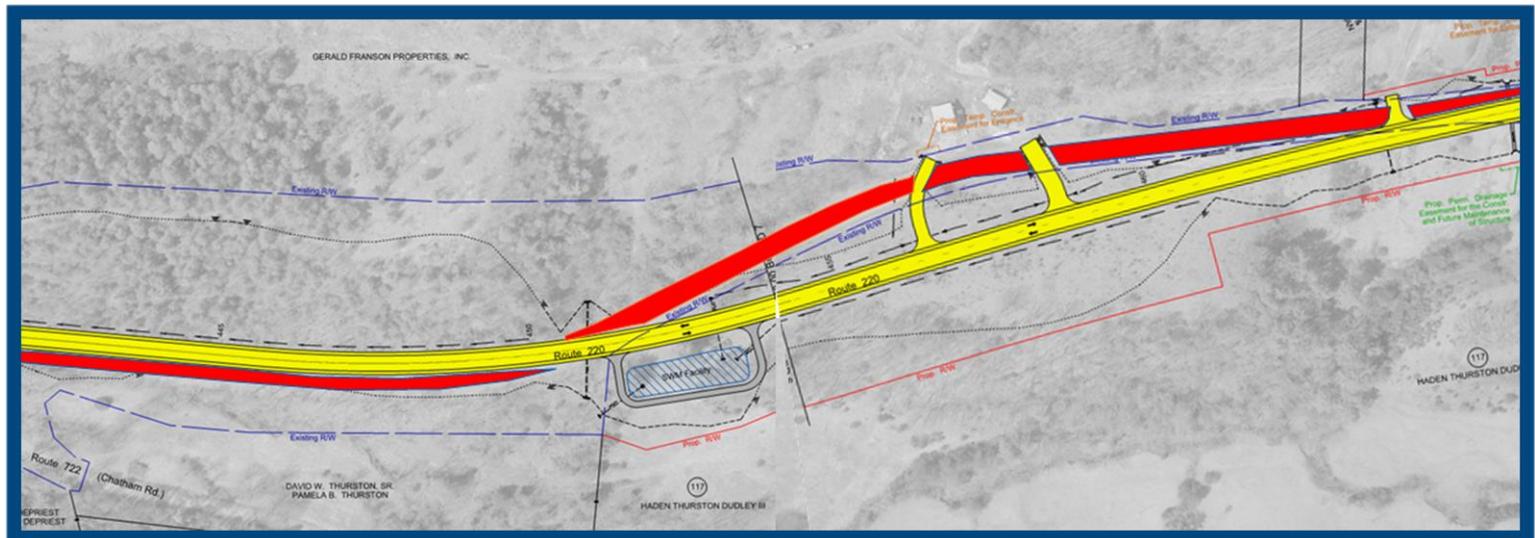
Refined the design and alignment to maximize the safety benefits within the allotted funding for this project (Phases 1, 2, and 3).



(Focused \$79M on critical areas for greater overall safety benefits)

➤ Design Refinements

- ✓ Refined alignment based on additional investigation to minimize earthwork and exposure to pyritic material
- ✓ Focus realignment/reconstruction efforts from Gala to Route 696 (Phase 1) - Flatter, Straighter Alignment
- ✓ Maximize use of existing pavement south of Prices Bluff Road (Phase 2) and north of Buhrman Road (Phase 3)



Current Project Implementation Plan

(Focused \$79M on critical areas for greater overall safety benefits)

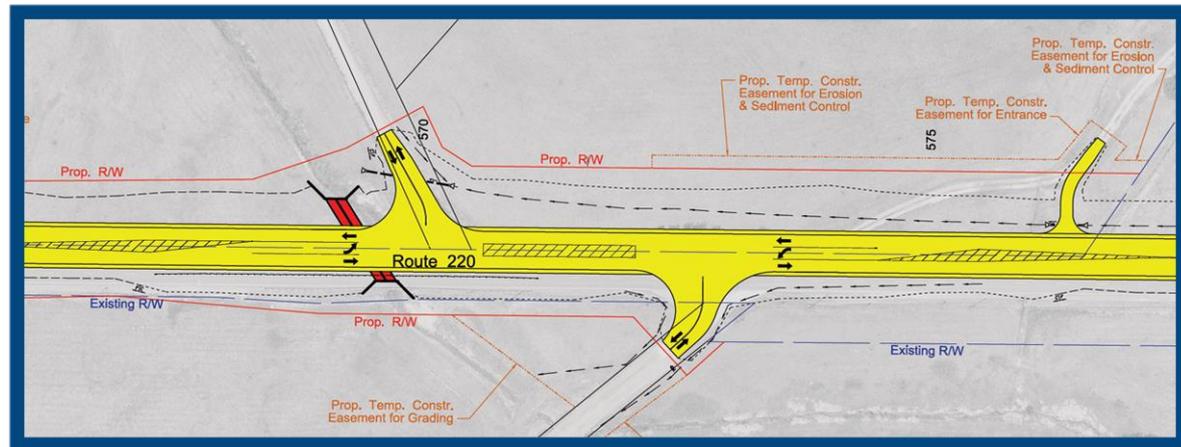
➤ Focused Intersection and Access Improvements

✓ Construct Left Turn Lanes:

- Route 43
- Route 622 (Prices Bluff Road)
- Route 696 (Locust Bottom Road)
- Route 696 (Buhrman Road)

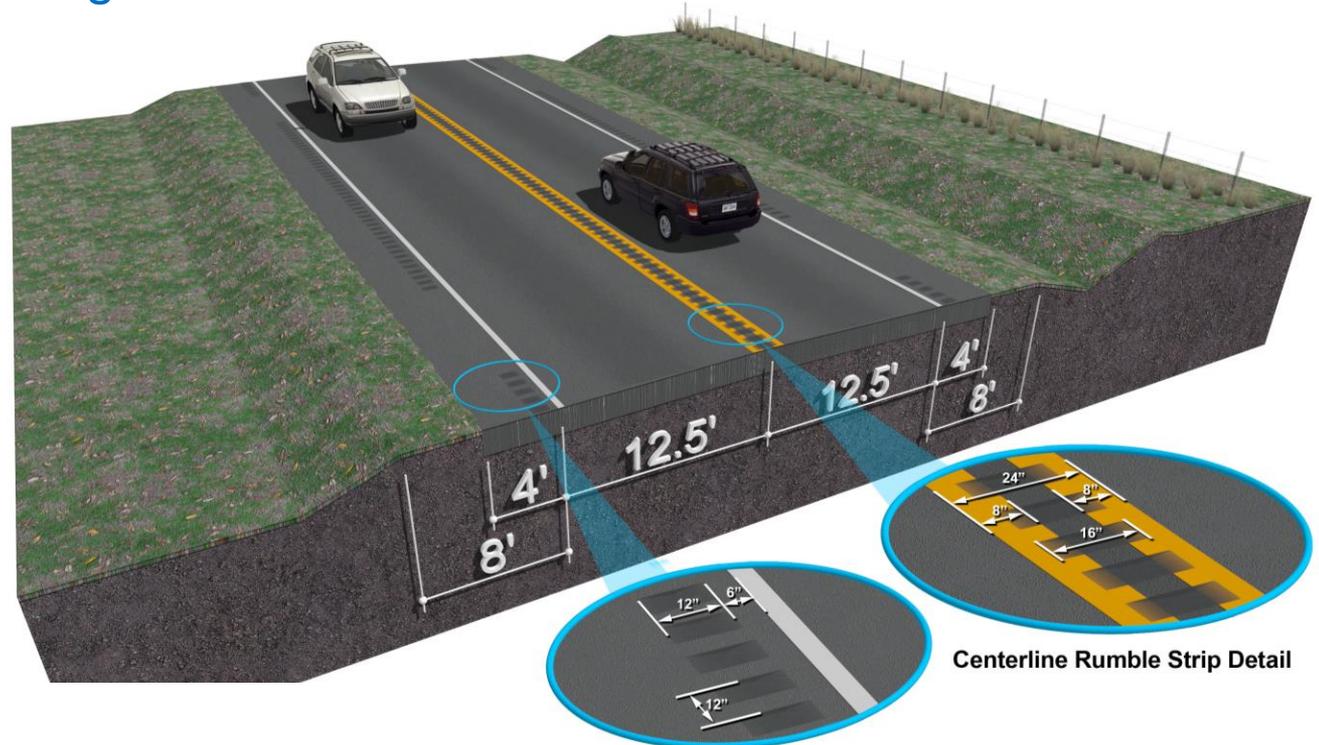
✓ Construct Access Management at Kelly's Market

- Remove Realignment of Route 696 Intersection
- Removed Two-way Left Turn Lane in Gala



➤ Typical Section

- ✓ Providing 2-ft centerline
- ✓ Providing 4-ft paved shoulders
 - Except north of the James River Bridge (Phase 3 North)
- ✓ Providing 8-ft total shoulders in most locations



- ✓ Wider Lanes
- ✓ Paved Shoulders Throughout
- ✓ Greater Separation From Opposing Traffic

Intermittent Shoulder Rumble Strip Detail (Typ)

Centerline Rumble Strip Detail

Construction and Traffic Impacts

- In order to maximize funds, VDOT will reduce traffic to one lane at some locations at specific times during construction
- Cost saving benefits include
 - Reduced right of way acquisition
 - Reduced duration of construction work
 - Less earthwork
 - Less disturbance of pyritic material
 - Less impact on the environment
- One Lane Traffic Control may be managed by
 - Flaggers
 - Pilot vehicles
 - Temporary Signals

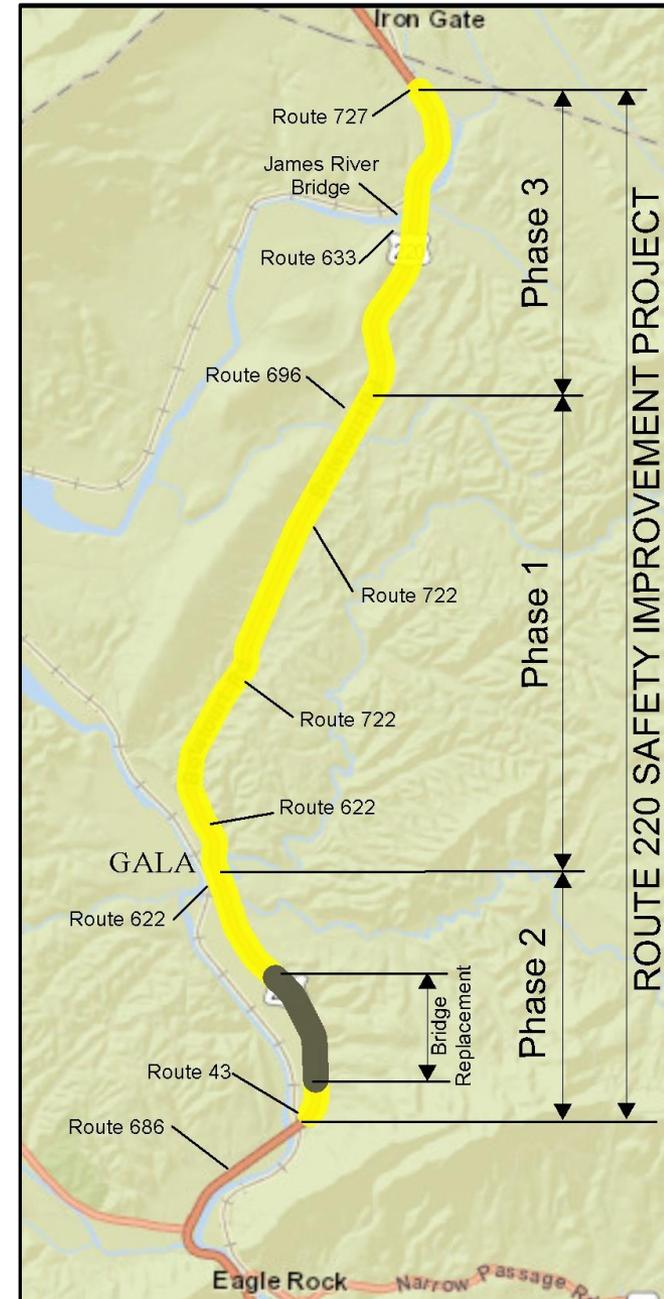
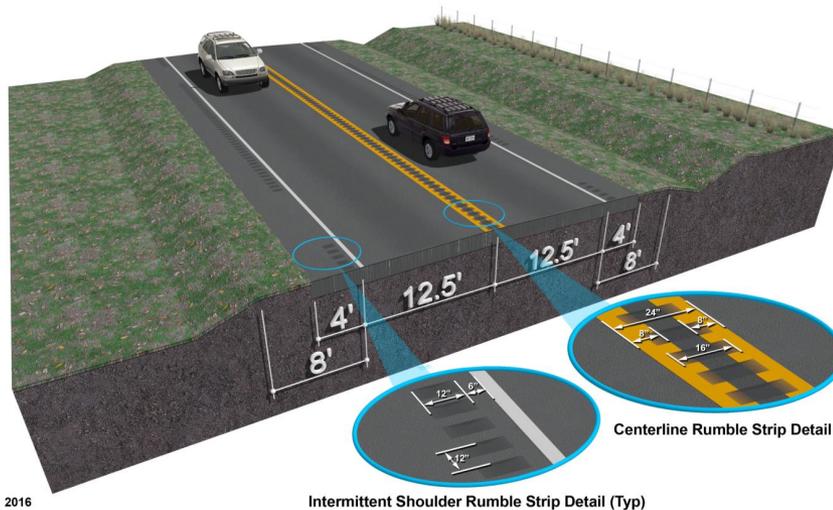


Managing one lane of traffic allows more funds for more roadway improvements on this section of Route 220.

Current Project Implementation Plan

Schedule

- Design-build Procurement is underway
- Award Contract to Design-builder: Spring 2017
- Begin Construction: Fall 2017/Spring 2018
- Construction Complete: August 2021



Route 220 Safety Improvement Project Phases 1, 2, and 3



Iron Gate

**Please join me and my colleagues
in the adjacent room for any follow up
discussions or questions.**

Route
622

Gala

**Please fill out the written comment
sheet included with the brochure or
visit the court reporter.**

Eagle Rock

Route
43