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

- Iron Gate
- S-Curve
- Gala
- James River
- To Eagle Rock

RTE 220

VDOT
Original Project Implementation Plan

Crash Types

- Roadway Departure (43.0%)
- Animal Crashes (29.2%)
- Rear End (19.4%)
- Other (8.3%)

Traffic Data
Existing ADT: 5500 (2015)
Design Year ADT: 6200 (2038)
Percent Trucks: 7.2%
**Bridge Replacement Project**

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

**Separate Project**

UPC 103210
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-Builders
- 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).
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)
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
Current Project Implementation Plan

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

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