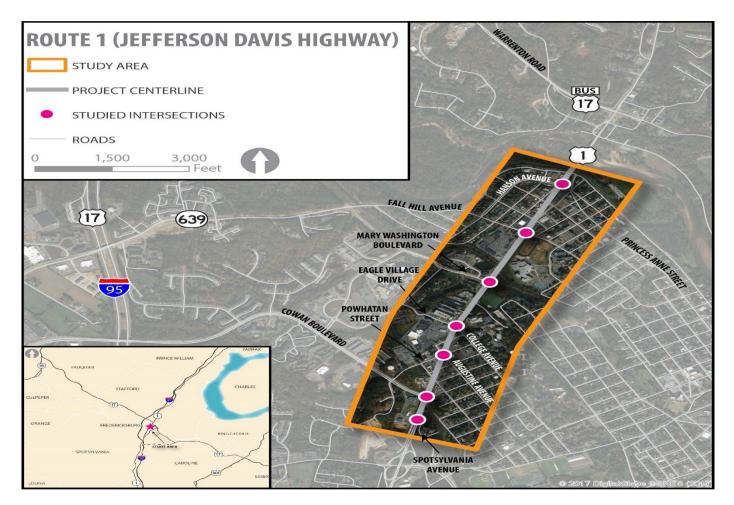


ROUTE 1 CORRIDOR STUDY

Public Information Meeting – August 27, 2018



STUDY AREA





STARS PROGRAM GOALS

- Develop comprehensive, innovative transportation alternatives to relieve congestion bottlenecks and solve critical safety challenges
- Involve planners, traffic engineers, safety engineers, roadway designers, and local stakeholders

STARS Project Stakeholders



Develop Projects to Program in the VDOT Six-Year Improvement Program



PROJECT STAKEHOLDERS

- Virginia Department of Transportation
- City of Fredericksburg
- Fredericksburg Area Metropolitan Planning Organization
- Property Owners



EXISTING TRAFFIC CONDITIONS

PM Peak Period Most Congested

- Fall Hill Avenue Intersection Significant Delay
- Cowan Blvd./Rowe St. Moderate Delay

• Queuing Issues

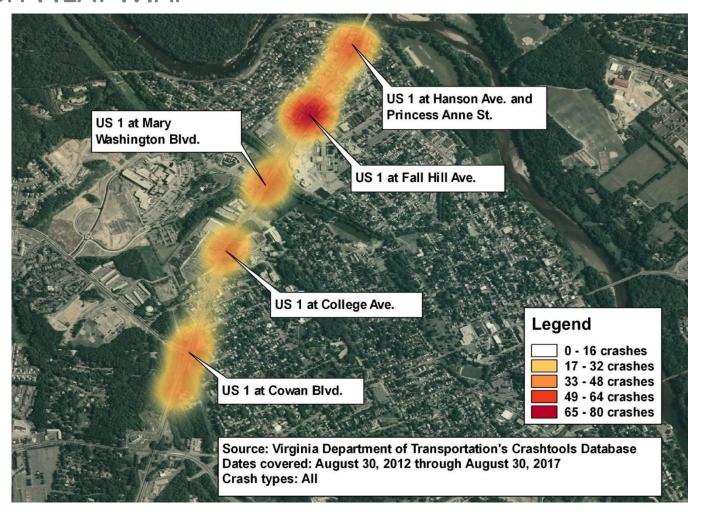
- Princess Anne St./Hanson Ave. SB & WB Left Turns
- Fall Hill Ave. SB & WB Left Turns
- Cowan Blvd./Rowe St. NB Left Turn & SB Right Turn

Weaving Issue

NB from Route 3 Off-Ramp to Make Left Turn at Cowan Blvd.



CRASH HEAT MAP





ROAD SEGMENT CRASH RATES

Segment	Total CR (Per 100 MVM)		Statewide Average (2015)
SR 3 to Cowan Crossing/Spotsylvania Ave.	116.74	≤	151.62
Cowan Crossing/Spotsylvania Ave. to Cowan Blvd.	179.91	2	151.62
Cowan Blvd. to Eagle Village Dr.	197.50	2	151.62
Eagle Village Dr. to Mary Washington Blvd.	77.26	≤	151.62
Mary Washington Blvd. to Fall Hill Ave./SR 639	192.91	2	151.62
Fall Hill Ave./SR 639 to Princess Anne St./Hanson Ave.	362.09	2	151.62
Princess Anne St./Hanson Ave. to Warrenton Rd./Butler Rd.	144.45	≤	151.62

Exceeds the state average crash rate



IMPROVEMENT OPTIONS

- Innovative Intersection Concepts
- Intersection Geometry
- Signal Operations
- Turn Restrictions
- Access Management

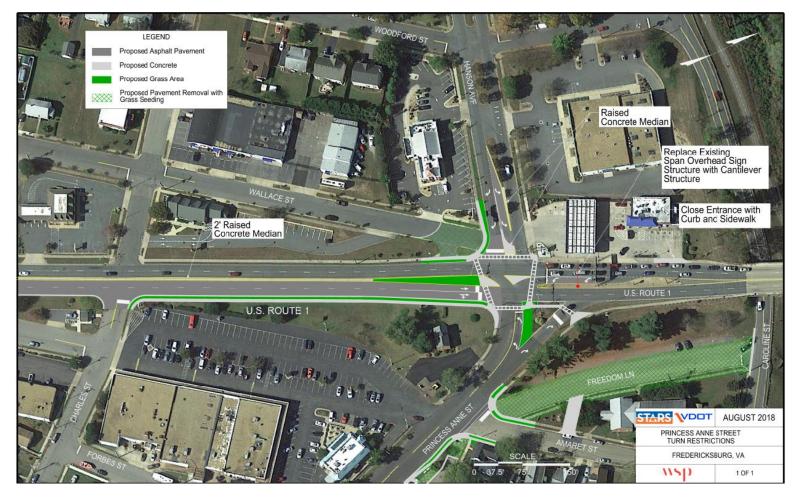


Princess Anne Street/Hanson Avenue — Existing Configuration





Princess Anne Street/Hanson Avenue — Preferred Alternative





Preferred Alternative Benefits — Princess Anne St./Hanson Ave.

- 75% Reduction in Delay vs. No Build
- 57% Crash Reduction vs. No Build
- Freedom Lane Closure Creates Opportunity for Alternate Use
- Amaret St./Van Buren St./Princess Anne St.
 Intersection Simplified
- Access Management Improvements

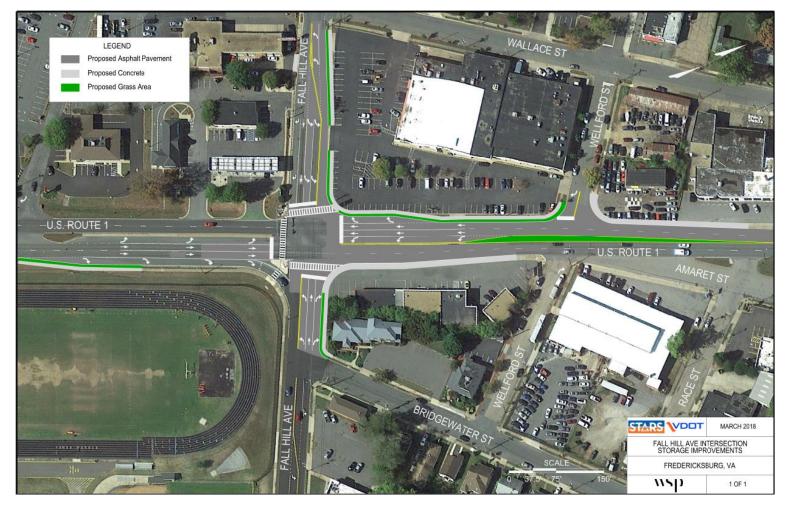


FALL HILL AVENUE — EXISTING CONFIGURATION





FALL HILL AVENUE — PREFERRED ALTERNATIVE A





FALL HILL AVENUE - INNOVATIVE INTERSECTION ALTERNATIVE B





Preferred Alternative Benefits - Fall Hill Avenue

- Alternative A is the Current Smart Scale Application
- Combination of Alternatives A and B could be Ultimate Phased Recommendation
- Alternative A Reduces Overall Delay vs. No Build by 40%
- Projected Crash Reduction of 31% vs. No Build for Alternative A

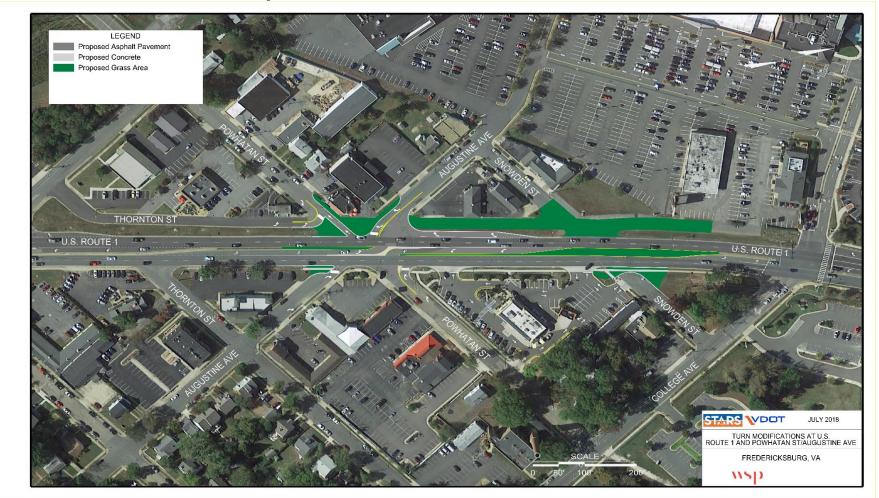


POWHATAN STREET/AUGUSTINE AVENUE — EXISTING CONFIGURATION





POWHATAN STREET/AUGUSTINE AVENUE — ACCESS MANAGEMENT





COWAN BLVD. & COWAN CROSSING INTERSECTIONS — EXISTING CONFIGURATION





COWAN BLVD./ROWE STREET — PREFERRED ALTERNATIVE





Preferred Alternative Benefits - Cowan Blvd./Rowe St.

- Delay Reduced by 42%
- Cross Street Operations Improved
- 25% Crash Reduction vs. No Build
- Northbound Left Turn Queuing Issue Improved



COWAN CROSSING/SPOTSYLVANIA AVENUE — PREFERRED ALTERNATIVE





Preferred Alternative Benefits — Cowan Crossing/Spotsylvania Avenue.

- Delay Reduced by 15% vs. No Build
- 41% Crash Reduction vs. No Build
- Northbound Weaving Issue Solved by New Traffic Signal at Ramp Terminus
- Additional Storage Provided for Northbound Left Turn at Cowan Blvd.
- Spotsylvania Avenue Access Improved for Planned Redevelopment



PROJECT STATUS/NEXT STEPS

- ✓ Data Collection and Field Review
- ✓ Crash Analysis
- **✓ Existing Conditions Operational Analysis**
- **✓** Future No-Build Conditions Operational Analysis
- **✓** Development of Improvement Alternatives
- ✓ Future Build Conditions Operational Analysis
- ✓ Selection of Preferred Intersection Alternatives
- **✓ Planning-Level Cost and Schedule Estimates**
- Public Information Meeting TODAY
- Prioritization/Packaging of Improvements
- STARS Improvement Summary Sheets
- Final Report





ROUTE 1 CORRIDOR STUDY

Thank you!

