



VDOT Culpeper District Project Pipeline Albemarle County

August 4th, 2020 Agenda

- 1. Introductions / Goal of Today's Meeting
- 2. VDOT Project Pipeline
- 3. Study Scope
- 4. Work Performed to Date
- 5. Discussion
- 6. Next Steps



Introductions



Goal of today's meeting is to:

- Explain the Project Pipeline
- Provide an overview of work completed to date
- Gather Stakeholder comments and discuss focus areas



VDOT Project Pipeline



Statewide Initiative to focus on solutions to the identified VTrans Mid-Term needs with a Performance Based Planning Approach

- Three-phase process to assess network needs, develop solutions, and identify funding sources
- First Phase: Initial analysis to diagnose needs
 - Inputs: Traffic volumes, crash data, site visits, stakeholder input, etc.
 - Outcome: Existing conditions and preliminary alternatives
- Second Phase: Refine and perform alternative analyses
 - Inputs: First phase data, future volumes, land-use, stakeholder input, public outreach etc.
 - Outcome: Future conditions and preferred alternative selection
- Third Phase: Detailed concepts and estimates of preferred alternative
 - Inputs: Design standards, Location & Design, Environmental, ROW, and Utilities
 - Outcome: Final concepts and estimates and application for funding (SMART SCALE, RS, TAP, Regional Funding Etc.)



US 250 - Pantops

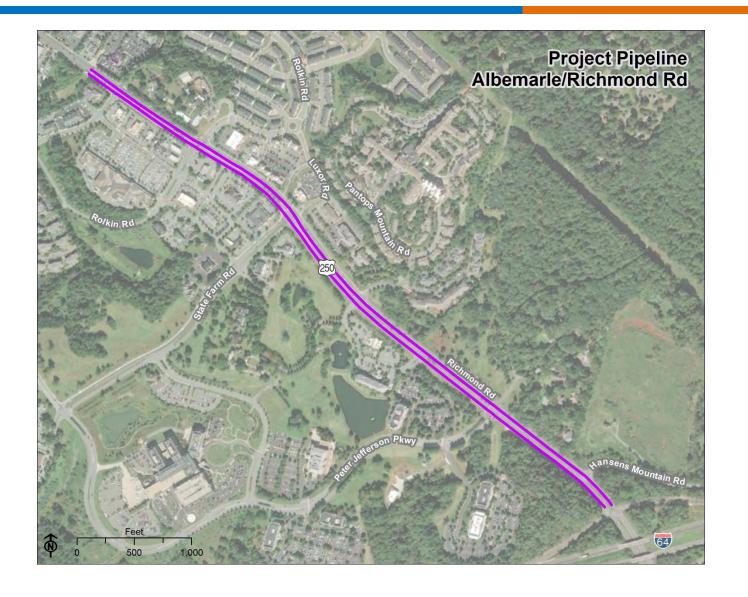


Overview:

- Corridor congestion and safety performance analysis
- Assess VTrans Mid-Term Needs
- Develop preliminary alternatives based on existing conditions

Study Intersections:

- US 250/Hansen Road
- US 250/Rolkin Road
- US 250/State Farm Blvd
- US 250/Pantops Mountain Road
- US 250/Hilton Crossover
- US 250/Peter Jefferson Pkwy
- US 250/Hansens Mountain Road





Work Performed to Date



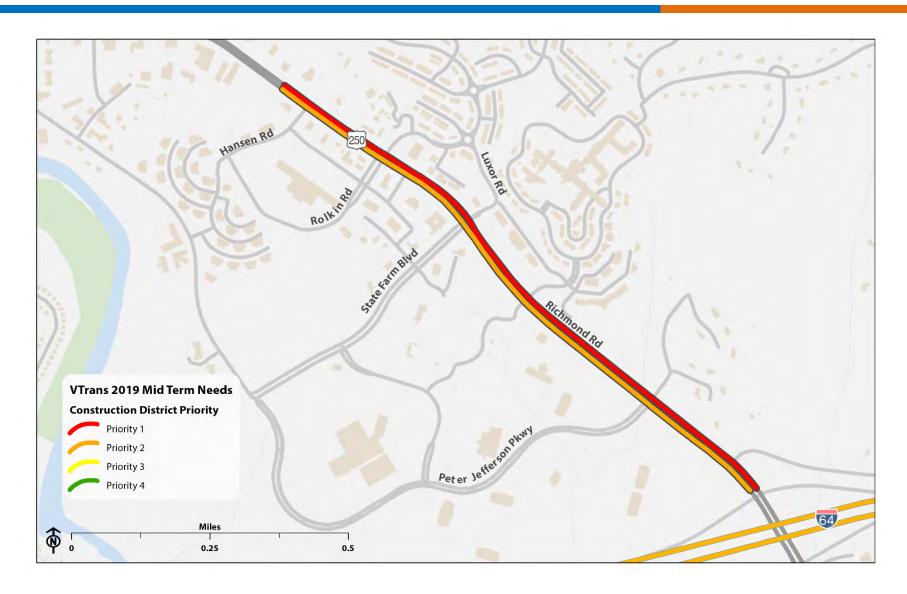
- VTrans needs review
- Site Visit
- Crash data analysis
- Bike/Ped accommodations review and assessment
- Literature Review: Studies, Comprehensive Plans, planned projects
- Traffic counts (on-going)



VTrans Needs



- Priority 1 / 2 Corridor
- Priority is determined by but not limited to:
 - Volumes, crash data, travel times, land use, reliability, etc.
- Urban Development Area

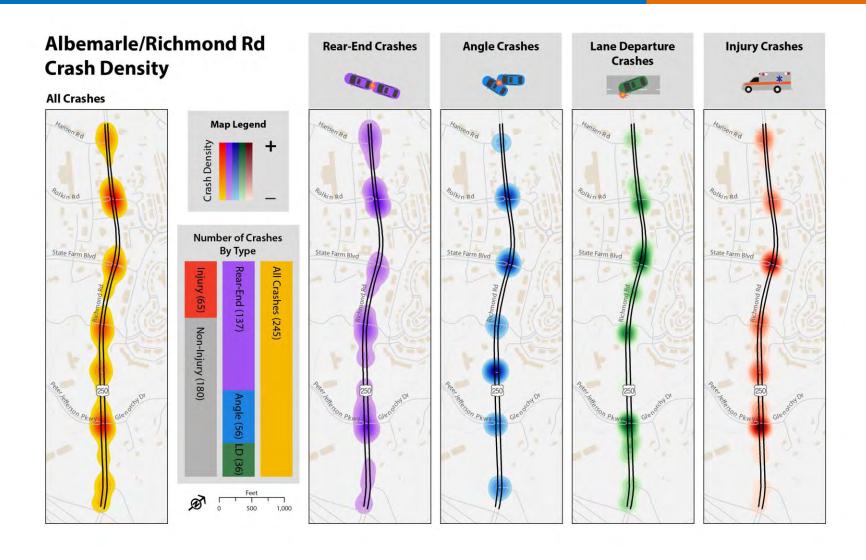




Safety Summary Total Crashes and Safety Needs



- Safety need between Hansen and Rolkin Road (PSI Rank 17)
- Safety need between Pantops Mountain Rd and Peter Jefferson Pkwy (PSI Rank 13)
- High concentration of angle and injury related crashes at State
 Farm Blvd and Hilton Crossover
- Rear-end crashes related to congestion. May be somewhat mitigated by Traffic Signal Synchronization and future Diverging Diamond at interchange





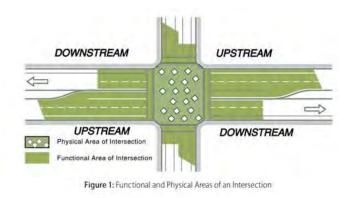
Safety Summary Equivalent Property Damage (EPDO) Intersection Totals



Crashes weighted based on crash severity SMART SCALE KABCO Scale

КАВСО	Description	Weight
К	Fatal	85
А	Suspected Serious Injury	85
В	Suspected Minor Injury	10
С	Possible Injury	5
0	Property Damage Only	1

Crashes grouped based on functional area of intersection







Bike/Ped Assessment



Pedestrian Safety Action Plan (PSAP) 2.0

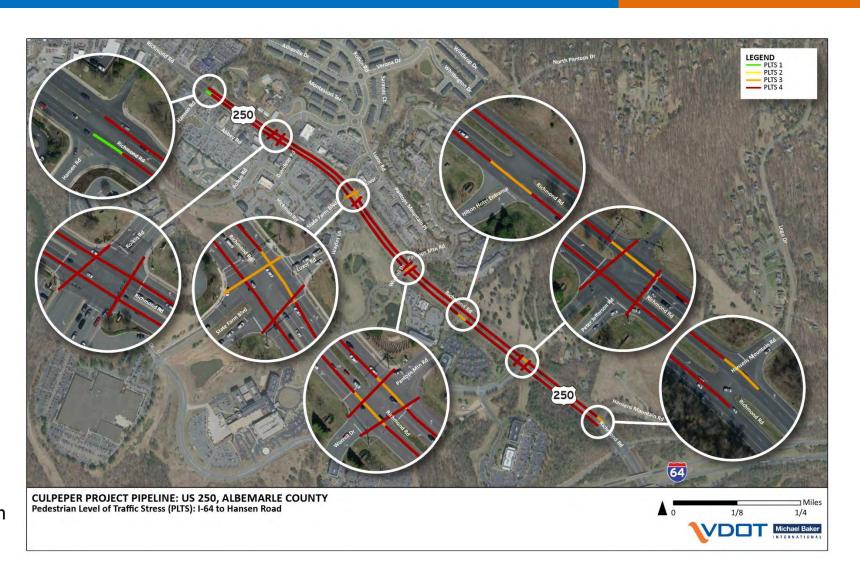
- Priority 2 (Top 1%) corridor
- Ped Fatality near Hansen Rd (2014)
- Ped Injury near Hilton Crossover (2014)

Identified VTrans Needs

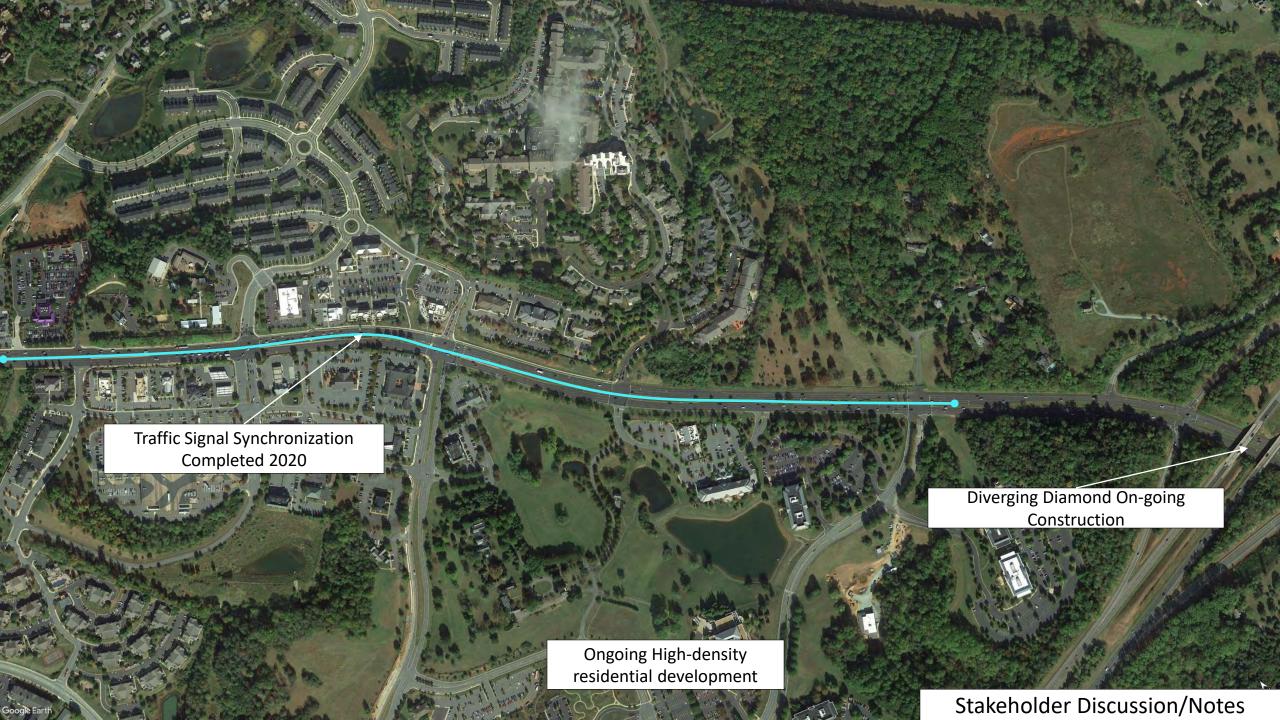
- UDA Bike/Ped Infrastructure
- UDA Transit

Bike/Ped Facilities Overview

- Westbound US 250
 - 50% Sidewalk Coverage
 - 100% with <5' Buffer
- Fastbound US 250
 - 15% Sidewalk Coverage
 - 100% with <5' Buffer
- Intersections
 - 4 Signalized Crossings
 - 100'+ Crossing Distance on US 250
 - Refuges provided at State Farm Blvd
 - Most don't have pedestrian signal equipment



US 250 - Pantops





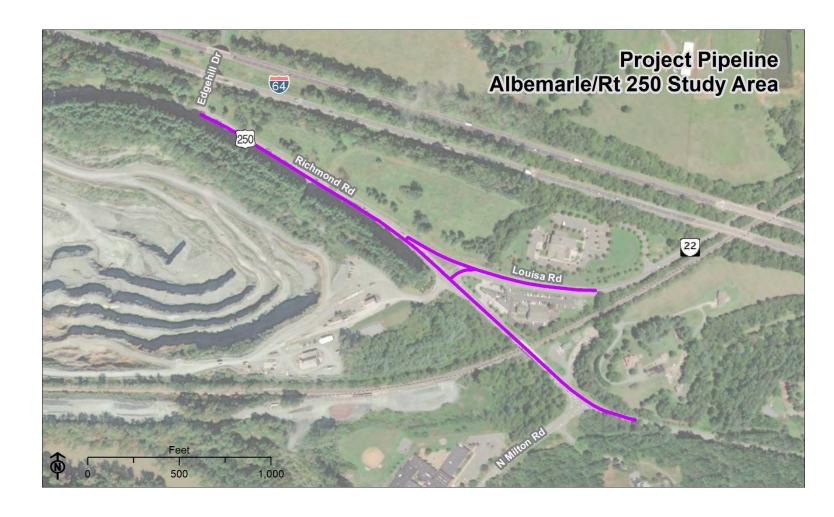


Overview:

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- Assess VTrans Mid-Term Needs
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Study Intersections:

- US 250/Route 22 (Louisa Road)
 - Includes Slip Lane from Route 22 onto US 250 Westbound
- US 250/N Milton Road





Work Performed to Date



- VTrans needs review
- Site Visit
- Crash data analysis
- Bike/Ped accommodations review and assessment
- Literature Review: Studies, Comprehensive Plans, planned projects
- Traffic counts (on-going)



VTrans Needs



- US 250 and Route 22 a Priority
 1 / 2 intersection
- Priority is determined by but not limited to:
 - Volumes, crash data, travel times, land use, reliability, etc.
- Identified Safety Needs at both intersections

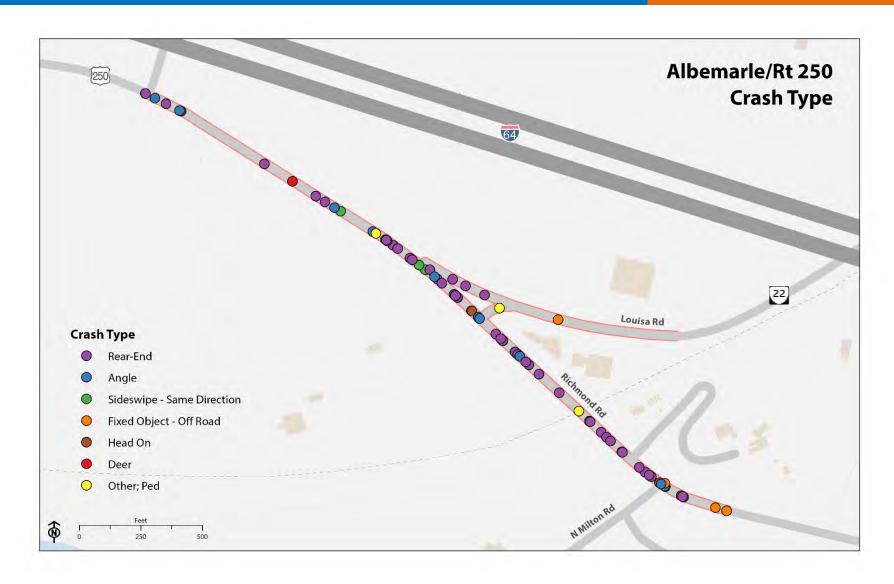




Safety Summary Total Crashes and Safety Needs



- Safety need at US 250 and Route
 22 (PSI Rank 7)
- Rear-end crashes due to stopand-go traffic caused from both traffic signals
- Most severe crashes associated with rear-ends traveling eastbound on US 250
 - Majority occur between
 3:30 PM and 5:30 PM





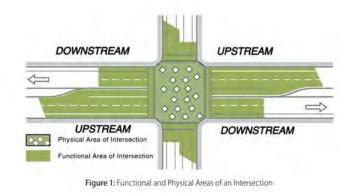
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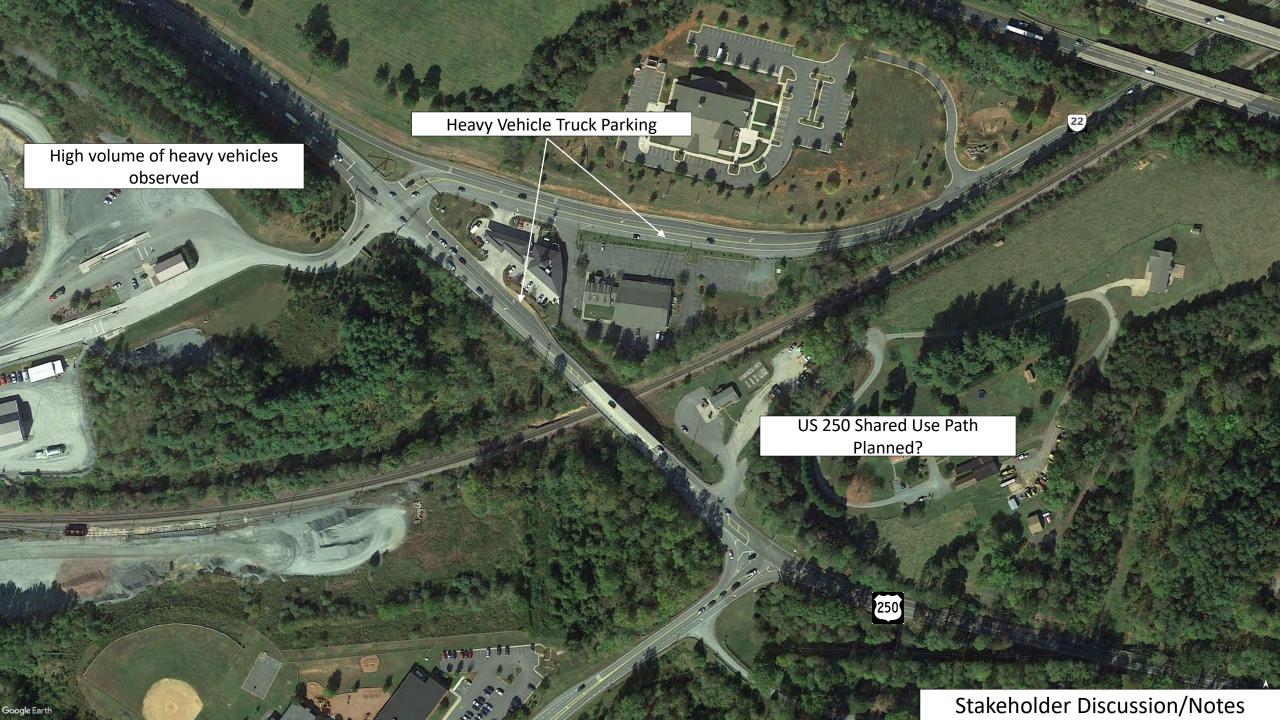
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С	Possible Injury	5
0	Property Damage Only	1

Crashes grouped based on functional area of intersection













- Finalize crash analysis
- Process traffic counts
- Perform existing condition analysis
- Develop preliminary alternatives
- September stakeholder meeting



Albemarle County Culpeper Project Pipeline



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