



- Transportation Update
- Town Council Work Session
August 11, 2026

Transportation Vision

- Plan Warrenton 2040
- Complete Street
- Walkability Study

PLAN WARRENTON 2040

	Proposed Projects	Type	Existing Capacity	Future Capacity	Crash History	Economic Development
1	Shirley Ave and Culpeper St	Intersection	HIGH	HIGH	POOR	SIGNIFICANT BENEFIT
2	Shirley Ave between Culpeper St and Falmouth St	Segment	HIGH	HIGH	POOR	SIGNIFICANT BENEFIT
3	Lee Hwy between Broadview Ave and U.S. 15/17/29 Interchange	Segment	HIGH	HIGH	POOR	SIGNIFICANT BENEFIT
4	Blackwell Rd and Lee Hwy	Intersection	HIGH	HIGH	POOR	SIGNIFICANT BENEFIT
5	Falmouth St between Shirley Ave and Old Meetze	Segment	MODERATE	HIGH	GOOD	POTENTIAL BENEFIT
6	Broadview Ave and Lee Hwy	Intersection	MODERATE	HIGH	POOR	SIGNIFICANT BENEFIT
7	James Madison between Falmouth St and Alwington Blvd	Segment	MODERATE	HIGH	POOR	SIGNIFICANT BENEFIT
8	Shirley Ave between Broadview Ave and Culpeper St	Segment	MODERATE	HIGH	POOR	SIGNIFICANT BENEFIT
9	Bear Wallow Rd and Roebling St	Intersection	MODERATE	MODERATE	POOR	SIGNIFICANT BENEFIT
10	U.S. 211 and Van Roijen St	Intersection	LOW	MODERATE	POOR	SIGNIFICANT BENEFIT
11	Roebling St and Broadview Ave	Intersection	MODERATE	HIGH	OBSERVE	SIGNIFICANT BENEFIT
12	Main Street Improvements	Segment	MODERATE	MODERATE	POOR	POTENTIAL BENEFIT
13	Blackwell Rd between Walker Dr and Lee Hwy	Segment	LOW	MODERATE	OBSERVE	SIGNIFICANT BENEFIT
14	Broadview Ave between Roebling St and U.S. 17	Segment	LOW	MODERATE	OBSERVE	SIGNIFICANT BENEFIT
15	Broadview Ave between Roebling St and Lee Hwy	Segment	LOW	MODERATE	OBSERVE	SIGNIFICANT BENEFIT
16	Falmouth St and Lee St	Intersection	MODERATE	MODERATE	OBSERVE	POTENTIAL BENEFIT
17	Walker Dr and Blackwell Rd	Intersection	LOW	MODERATE	GOOD	SIGNIFICANT BENEFIT
18	Blackwell Rd/ Alexandria Pike between Walker Dr and Main St	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
19	Walker Dr between Blackwell Rd and Lee St	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
20	Timber Fence Bypass	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
21	Southern Bypass	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
22	North Hill Dr Connection to Winchester St	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
23	Alexandria Pk between Blackwell Rd and Berm at Walker Dr	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
24	Moser Rd to Frazier Rd	Segment	LOW	LOW	GOOD	SIGNIFICANT BENEFIT
25	Waterloo St between Broadview Ave and Main St	Segment	LOW	LOW	OBSERVE	POTENTIAL BENEFIT
26	Old Waterloo Rd and Van Roijen St	Intersection	LOW	LOW	POOR	MINIMAL BENEFIT
27	Old Waterloo Rd between Broadview and Waterloo Rd	Segment	LOW	LOW	POOR	MINIMAL BENEFIT
28	Winchester St between Rappahannock St and Town Limits	Segment	LOW	LOW	GOOD	POTENTIAL BENEFIT
29	Walker Dr and East Lee St	Intersection	LOW	MODERATE	GOOD	MINIMAL BENEFIT
30	Missing Links (Roebling St, etc.)	Segment	LOW	LOW	GOOD	MINIMAL BENEFIT
31	Connector road between East Lee and Falmouth St	Segment	N/A	N/A	N/A	POTENTIAL BENEFIT
32	Walkability Audit Recommendations	Townwide	N/A	N/A	N/A	SIGNIFICANT BENEFIT

Transportation Vision (continued)

Plan Warrenton 2040

- **Safety**
Reduce crashes, improve safety, and traffic calming
- **Efficient**
Improve traffic operations and accommodate future growth.
- **Accessible**
Provide transportation options for people of all ages and abilities.
- **Improve Connectivity**

Complete Streets & Walkability

- Transportation planning and design philosophy
- Establishes the vision for future streets
- Improvements should accommodate vehicular, pedestrian, and bicyclist
- Categorizes street into
 - Boulevards & Gateway Streets
 - Old Town/ Heritage Street
 - Signature Streets
 - Neighborhood Streets
 - Shared Streets

Standards & Guidelines

- PFM (Public Facilities Manual)
- VDOT Road & Bridge Standards and Specifications
- MUTCD (Manual of Uniform Traffic Control Devices)
- Virginia Work Area Protection Manual
- DEQ (Dept. of Environmental Quality) Regulations



Project Evaluations

- Traffic volumes and future demands
- Intersection operations and capacity
- Crash history and safety conditions
- Available right-of-way and utility impacts
- Environmental considerations
- Construction and lifecycle costs
- Surrounding land uses
- Compatibility with Town plans and policies
- Public Engagements

Investments

Roadway Improvements

- Intersection capacity and operational improvements
- Corridor improvements for future growth
- Resurfacing and rehabilitation
- Drainage and roadway infrastructure

Multimodal Improvements

- New and missing sidewalk connections
- Improved pedestrian crossings
- ADA accessibility improvements
- Bicycle accommodations where appropriate
- Neighborhood, school, park, and



Intersection Safety & Efficiency

Roundabouts

- **Safety**
 - Reduce conflict points & crash severity
- **Efficiency**
 - Improved traffic flow & reduce delays
- **Pedestrian Access**
 - Shorter crossing distances & lower vehicle speed
- **Cost Savings**
 - No long-term operations and maintenance cost for a traffic signal

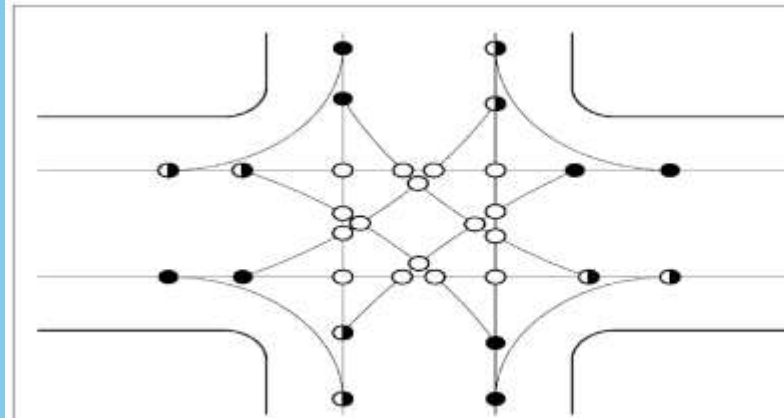
Other Safety Improvements

- 4-way stops
- Adjust signal timing
- Add traffic calming measures

Public Engagement

- WHY?

Conventional Intersection: Conflict Points

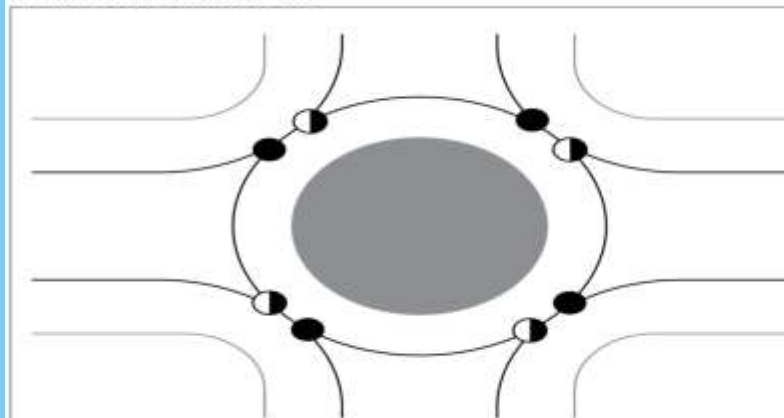


Legend

- = Diverging
- ◐ = Merging
- = Crossing

Conflict Type	Count
Crossing	16
Merging	8
Diverging	8
Total:	
32 Conflicts	

Roundabout: Conflict Points



Legend

- = Diverging
- ◐ = Merging
- = Crossing

Conflict Type	Count
Crossing	0
Merging	4
Diverging	4
Total:	
8 Conflicts	

Project Dashboard

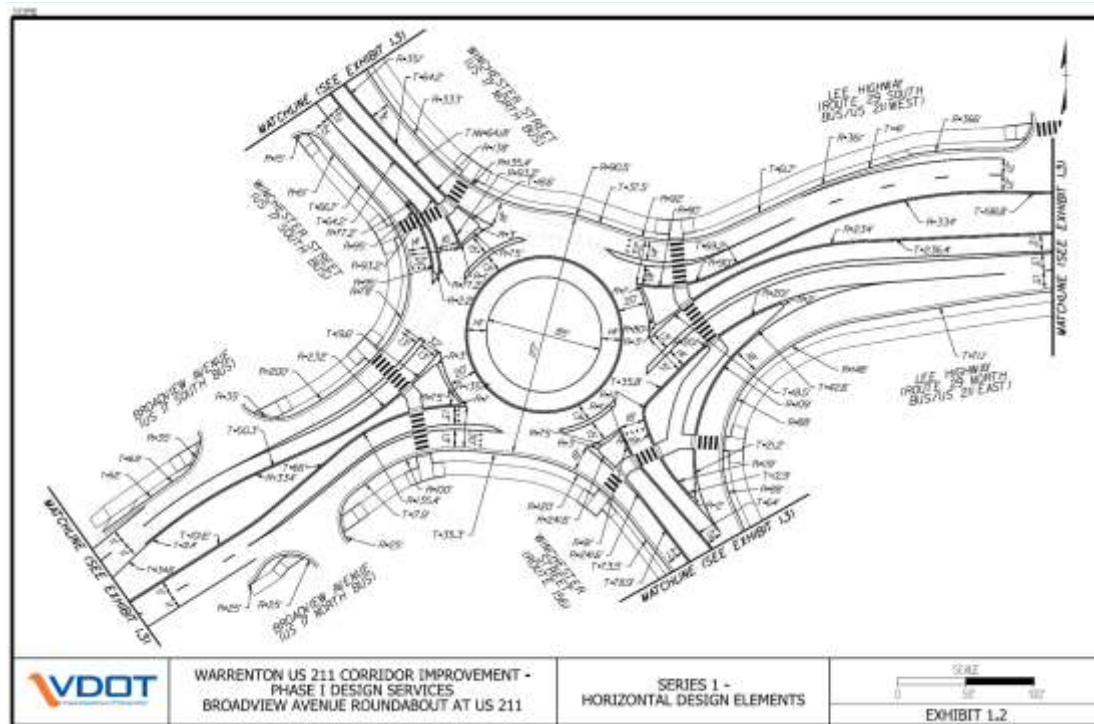
Project	Status	Target
Main Street Improvements	Construction	September 2026
Traffic Signal Modernization	Construction	October 2026
Gay Road Sidewalk	Design	FY 2028
Walker Drive / East Lee Street	Traffic Study	June 2027
Lee Highway Roundabout	Design	Construction Spring 2030

Lee Highway Roundabouts

- **Project Goal:** Develop a long-term intersection solution that improves safety, traffic operations, pedestrian access, and multimodal connectivity.
- **Status:** Early Design
- **Current Activities:** Establishment of project alignment
- **Public Engagement:** VDOT performed a Pipeline Study in 2020, Public hearing anticipated in Summer 2027
- **Estimated Construction Start:** Spring 2030
- **Project Cost:** \$62.25 million (Entire project funded via SmartScale)



Lee Highway Roundabouts (continued)



Culpeper/ Shirely Avenue Roundabout

- **Project Goal:** Improve the efficiency of the current intersection
- **Status:** SmartScale Application submitted to VDOT for scoring
- **Public Engagement:** VDOT conducted a Pipeline Study in 2024
- **Project Schedule:**
 - PE- Fall 2029
 - RW- Winter 2031
 - Start Construction- Summer 2034

- **Project Cost:** \$17.6 million (Entire project funded via



Other Town Project's

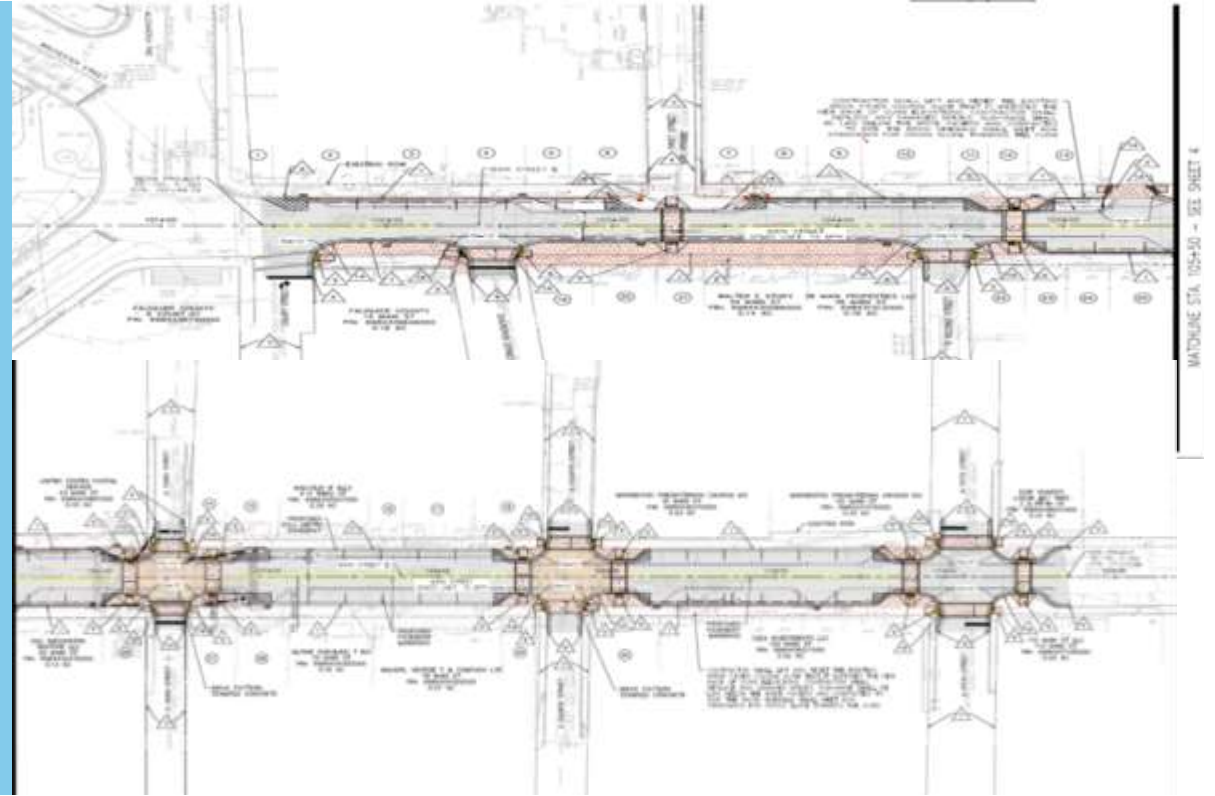
- Traffic Signal Modernization
 - Project Focus- Modernize signal infrastructure and improve traffic signal operations
 - Next Step- Installation of detection cameras
 - Completion- October 2026
- Gay Road Sidewalk
 - Project Objective- Improve pedestrian connectivity from Bear Wallow to Gold Cup
 - Current Phase- Survey and concept design
 - Estimated Completion- FY 2028
- Walker Drive/ East Lee (Traffic Study)
 - Project Objective- Develop solutions to improve safety along East Lee and Falmouth Street Corridor

Future Projects

- Study the Frost Avenue Corridor and impacts from developments outside Town Limits
- Conduct a traffic signal coordination study to improve efficiency
- Improve the safety of pedestrian traffic along East Shirley Avenue
- Connectivity Projects
 - Fauquier Road
 - Alexandria Pike
 - Sullivan Street
 - Oliver City

Main Street Improvements

- Project Focus:
 - Improving pedestrian facilities and enhancing the function and appearance of the Main Street corridor.
- Construction Phase
- Progress:
 - 75% Complete
- Current Activities:
 - Crosswalk
 - Brick sidewalk
- Completion Date: September 18, 2026



Discussion

Questions?