



SMART SCALE Application

Route 208-522 Intersection Improvements

Project Status: Scored

Project ID: F2-0000001162-R02

General

Point of Contact Information

Project Point of Contact Name	Point of Contact Phone	Point of Contact Email
Jeffrey Ferrel	(540) 967-3462	jferrel@louisiana.gov

Project Information

Short Project Description	Notice of Intent
The project will reconstruct the intersection of Route 208/522 as a roundabout	Yes

Project Title	Principal Improvement
Route 208-522 Intersection Improvements	Highway

Does this project include any improvements to non-VDOT maintained roadways?
No

Detailed Project Description

The project will reconstruct the intersection of Route 208/522 as a single lane roundabout with a right turn lane on the west bound Route 208 approach. The Project will consolidate several accesses at the intersections and provide Multiuse Facility and crosswalks on the Route 208 side of Route 522 and on Route 208 within the project limits.

SMART SCALE Need Categories	Application Program
Safety	District Grant

How does this project address VTrans 2040 need?

This project was identified as a safety need due to an increase in the number of crashes that occur. This project will address this issue.

Location

PDCs Served

Thomas Jefferson

MPOs Served

Jurisdictions Served

Louisa County

Districts Served

Culpeper

Features

Project Features

Highway

Improvement

Shoulder Improvement(s)

Comments

The intersection conversion to a roundabout will also provide shoulder improvements within the project limits.

Access Management

The project will consolidate some of the access surrounding the intersection.

Intersection Improvement(s)

The project will convert the existing intersection to a single lane roundabout with a West Bound Right Turn Lane on the Route 208 approach.

Turn Lane Improvement(s)

The project will include a right turn lane on the West Bound Route 208 approach.

Bike/Pedestrian

Improvement

Construct Sidewalk

Comments

The project does include a Multiuse path on the east side of Route 522 and on Route 208 within the project limits to provide an alternative route for bicyclist and pedestrians access to the commercial areas.

Improve Bike/Pedestrian Crossing (At Grade)

The project does include crosswalks on the Route 208 connection to facilitate pedestrian access to the commercial property.

Bus Transit

Improvement

Comments

Rail Transit

Improvement

Comments

Freight Rail

Improvement

Comments

Travel Demand Management (TDM)

Improvement

Comments

Right of Way

Improvement

Right of Way/Easements acquisition required

Comments

The project will require some right of way and easement to construct the improvements.

Factors

Accessibility

Accessibility	Response	Additional Notes
Project includes transit system improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.	No	
Project includes improvements to an existing or proposed park and ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	No	
Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required.	Yes	The project does include a Multiuse path on the east side of Route 522 and on Route 208 within the project limits to provide and Alternative route for Bicyclist and

		Pedestrian access to the Commercial areas.
Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	Yes	The project does include a Multiuse path on the east side of Route 522 and on Route 208 within the project limits to provide an Alternative route for Bicyclist and Pedestrian access to the Commercial areas.
Project includes improvements to existing or new HOV/HOT lanes or ramps to HOV/HOT.	No	
Project provides real-time traveler information or wayfinding specifically for intermodal connections (access to transit station or park and ride lot).	No	
Provides traveler information or is directly linked to an existing TMC network/ITS architecture.	No	

Land Use

Land Use	Response	Additional Notes
Is the project within 1/4 mile of parcels currently zoned for mixed use development or parcels identified in the future land use plan as mixed use development?	No	
Does the project support in-fill development adjacent to the project?	No	
Is there a locally/regionally adopted corridor/access management plan for the project area that addresses interparcel connectivity and exceeds VDOT's minimum spacing standards?	No	

Environment

Environment	Response	Additional Notes
Project includes construction or replacement of bike facilities. For bicycle projects, off-road or on-road buffered or clearly delineated facilities are required (i.e. Bike Lane or Shared Use Path).	Yes	The project does include a Multiuse path on the east side of Route 522 and on Route 208 within the project limits to provide an Alternative route for Bicyclist and Pedestrian access to

		the Commercial areas.
Project includes construction or replacement of pedestrian facilities. For pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).	Yes	The project does include a Multiuse path on the east side of Route 522 and on Route 208 within the project limits to provide an Alternative route for Bicyclist and Pedestrian access to the Commercial areas.
Project includes improvements to rail transit or passenger rail facilities.	No	
Project includes improvements to an existing or proposed park-and-ride lot (e.g., new lot, more spaces, entrance/exit, technology (payment, traveler information)).	No	
Project includes bus facility improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.*	No	
Project includes improvements to freight rail network or intermodal (truck to rail) facilities/ports/terminals.	No	
Project include special accommodations for hybrid or electric vehicles, or space or infrastructure for electric vehicle parking/charging).	No	
Project includes energy efficient infrastructure or fleets, including: hybrid or electric buses, electronic/open road tolling, alternative energy infrastructure (e.g., roadside solar panels).	No	

Economic Development Factors

Transportation project (Consistency with Local Comprehensive Plan or Local Economic Development Strategy)

Transportation project (Consistency with Regional Economic Development Strategy)

Consistent with

N/A

Site Name	Development project (Consistent with locality Comprehensive Plan/Zoning)	Development project (Site planning status)	
Coyote Hole Ciderworks	Consistent with comp. plan future land use/zoning	Approved	
Development project (Site Utilities status)	Development Project (Proposed / Projected Building Square Footage)	Driving Distance to Development Project From Transportation Project	Does Transportation Project Provide Direct or Indirect Access to the Development Site?
In place	7,500 sq ft	1.00 miles	Provides Primary Access to the Site or is Adjacent to the Site

Site Name	Development project (Consistent with locality Comprehensive Plan/Zoning)	Development project (Site planning status)	
Kavros Restaurant and Brewery	Consistent with comp. plan future land use/zoning	Approved	
Development project (Site Utilities status)	Development Project (Proposed / Projected Building Square Footage)	Driving Distance to Development Project From Transportation Project	Does Transportation Project Provide Direct or Indirect Access to the Development Site?
In place	7,000 sq ft	1.00 miles	Provides Primary Access to the Site or is Adjacent to the Site

Site Name	Development project (Consistent with locality Comprehensive Plan/Zoning)	Development project (Site planning status)	
Louisa County Utility Improvements	Consistent with comp. plan future land use/zoning		
Development project (Site Utilities status)	Development Project (Proposed / Projected Building Square Footage)	Driving Distance to Development Project From Transportation Project	Does Transportation Project Provide Direct or Indirect Access to the Development Site?
Programmed	0 sq ft	0.00 miles	Provides Primary Access to the Site or is Adjacent to the Site

Site Name	Development project (Consistent with locality Comprehensive Plan/Zoning)	Development project (Site planning status)	
Wares Crossroads Commercial Development	Consistent with comp. plan future land use/zoning		
Development project (Site Utilities status)	Development Project (Proposed / Projected Building Square Footage)	Driving Distance to Development Project From Transportation Project	Does Transportation Project Provide Direct or Indirect Access to the Development Site?
	0 sq ft	0.00 miles	Provides Primary Access to the Site or is Adjacent to the Site

 Delivery/Funding

Project Delivery Information

Project Planning Status

Rural Long Range Plans
Planning/Safety Study

Project Administered By

VDOT

Existing Project VDOT UPC(s) or DRPT Project Number(s), if applicable

UPC/DRPT Project #	Description
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Project Delivery Method

Design-bid-Build

Please indicate who will be/was responsible for the design of this project

VDOT :

100%

Phase Estimate and Schedule

PE (Survey, Environmental, Design)

Phase Type

PE (Survey, Environmental, Design)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$950,000.00

Start Date

10/1/2021

End Date

10/1/2024

RW (Right of Way and Easement Acquisition, Utility Relocation)

Phase Type

RW (Right of Way and Easement Acquisition, Utility Relocation)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$1,050,000.00

Start Date

10/1/2024

End Date

1/1/2026

CN (Construction, Oversight, Inspection, Contingencies)

Phase Type

CN (Construction, Oversight, Inspection, Contingencies)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$3,400,000.00

Start Date

1/1/2026

End Date

11/1/2028

Total Cost Estimate

\$5,400,000.00

Project Funding Sources

**SYIP
Allocations**

**SMART
SCALE
Amount
Requested**

**Other
Committed
Funding
Amount**

**Total Proposed Project
Funding**

\$0.00

\$5,400,000.00

\$0.00

\$5,400,000.00

 Scores

Project Located in Typology													
Category C	Congestion Mitigation		Safety		Accessibility			Economic Development			Environment		Land Use
Measure	Increase in Peak Period Person Throughput	Reduction in Peak Period Delay	Reduction in Fatal and Injury Crashes	Reduction in Fatal and Injury Crash Rate	Increase in Access to Jobs	Increase in Access to Jobs for Disadvantaged Populations	Increase in Access to Multimodal Travel Choices	Sq. Ft. of Commercial and Industrial Dev. Supported	Tons of Goods Impacted	Improvement to Travel Time Reliability	Potential to Improve Air Quality	Other Factor Values Scaled by Potential Acreage Impacted	Support of Transportation-Efficient Land Development
Measure Value	144 persons	28 person hrs.	104 EPDO	4,157.4 EPDO/100M VMT	0.0 jobs per resident	0.0 jobs per resident	432 adjusted users	43,500.0 thousand adj. sq. ft.	0.0 thousand adj. daily tons	55,734.8 adj. buffer time index	57.6 adjusted points	3.0 scaled points	0.0 adjusted jobs & pop.
Normalized Measure Value (0-100)	0.1	0.0	1.6	10.8	0.0	0.0	0.1	0.1	0.0	0.0	0.2	2.9	0.0
Measure Weight (% of Factor)	50%	50%	50%	50%	60%	20%	20%	60%	20%	20%	50%	50%	0%
Factor Value	0.1		12.3		0.1			0.1			3.1		0.0
Factor													

Project Located in Typology						
Category C	Congestion Mitigation	Safety	Accessibility	Economic Development	Environment	Land Use
Weight (% of Project Score)	15%	25%	25%	25%	10%	0%
Weighted Factor Value	0.0	3.1	0.0	0.0	0.3	0.0
Project Benefit	3.4					
SMART SCALE Cost	\$5,400,000					
SMART SCALE Score (Project Benefit per \$10m SMART SCALE Cost)	6.4					

 Supporting Documents

Current Attachments

Description

Traffic Circle intersection of route 522 & route 208-
concept sketch

Attachment Type

Project Sketch

File Name

Concept_Sketch_Roundabout_US522_Rte208_FINAL.pdf

Description

Traffic Circle intersection of route 522 & route 208-cost
estimate

Attachment Type

Detailed Cost Estimate

File Name

Cost_Estimate_Roundabout_US522_Rte208_FINAL.pdf

<p>Description Kavros Restaurant Site Plan</p> <p>Attachment Type Site Development Plan</p> <p>File Name Kavros Site Plan - 003.pdf</p>	<p>Description Water/Sewer Infrastructure Map</p> <p>Attachment Type Local Utilities Programming</p> <p>File Name Lake Anna Water Sewer Master Plan Map.pdf</p>
<p>Description Wares Crossroads Commerical Development</p> <p>Attachment Type Project Sketch</p> <p>File Name Purcell 1.pdf</p>	<p>Description Wares Corsroads Commerical Development</p> <p>Attachment Type Project Sketch</p> <p>File Name Purcell 2.pdf</p>
<p>Description Coyote Hole Ciderworks Progress Pictures</p> <p>Attachment Type Site Development Plan</p> <p>File Name Coyote Hole Ciderworks Progress.pdf</p>	<p>Description Commercial Retail Sales Leakages and Surplus</p> <p>Attachment Type Other</p> <p>File Name Retail Leakage.Surplus.pdf</p>



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