





SMART SCALE Application

Route 42 Corridor Improvements

Project Status: Scored Organization: Woodstock Town

Project ID: 4714



Point of Contact Information

Project Point of Contact Name Point of Contact Email Point of Contact Phone

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Project Information

Project Title Principal Improvement

Route 42 Corridor Improvements Highway

Project Short Description

The Town of Woodstock seeks funding for corridor safety and access management improvements. The corridor is subject to increased traffic with performance deficiencies and is identified as having a high potential for safety improvement (psi).

Does this project include any improvements to non-VDOT maintained roadways?

Application Program VDOT District Requested Staunton

No District Grant

Project Detailed Description

The Town of Woodstock seeks funding for operational, multimodal, safety and access management improvements along the Route 42 Corridor from Hisey Avenue to Main Street (US 11) (approximately 1 mile project length). Project proposes a raised median between Hisey Avenue and the Exit 283 southbound ramps and from the Exit 283 northbound ramps to Main Street. Intersection improvements consist of: 1) a single lane roundabout at Hisey Avenue, 2) lane approach and signal coordination improvements at Henry Ford Drive and the interstate ramps, 3) channelized directional left turn lanes with taper at Motel Drive and Susan Avenue, 4) a hybrid – single lane roundabout at Ox Road with two lanes to accommodate eastbound Route 42 movements, 5) lane approach and signal optimization at Main Street. The project proposes a 10' wide shared use path along the north side of Route 42, between Main Street and Ox Road and between Woodstock Commons Drive and Hisey Avenue, filling in gaps in the existing sidewalk network. Finally, the application also includes pedestrian crossing improvements along the entire corridor, consisting of user activated pedestrian signal heads at signalized intersections, utilizing splitter islands for two-stage crossing at roundabout intersections, and a user activated rapid flashing beacon at the Susan Avenue intersection.



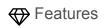
VTRANS Needs Categories Requested

VA-42N

Safety

Districts Served • Staunton	MPOs Served	Val		 Jurisdictions Served Shenandoah
Need Justifications				
Safety				
	Susan Ave PR/NP (Woodstock To	wn), SC-	Intersection safe	ety improvement.
	VA-42N		Corridor safety i	mprovement
	VA-42N		Corridor safety i	mprovement
	VA-42N		Corridor safety i	mprovement
	VA-42N		Corridor safety i	mprovement
	VA-42N		Corridor safety i	mprovement
	VA-42N		Corridor safety i	mprovement
	US-11N		Corridor safety i	mprovement
	US-11N		Corridor safety i	mprovement
	Ramp from I-81S; Ramp to I-81S; Rmp 283A, VA-42U Rmp 270A	I-81S	intersection safe	ety improvement
	Ox Rd PR/NP (Woodstock Town), 3E/W (Woodstock Town)	UR-	intersection safe	ety improvement

Corridor safety improvement



Highway Improvements	
Turn Lane Improvement(s)	Directional turn lanes will be incorporated into the proposed center median along Route 42 at the Motel Drive and Susan Avenue intersections.
Access Management	A raised median will be provided along Route 42 between Hisey Avenue and the Exit 283 southbound ramp and Exit 283 northbound ramps and Main Street to reduce conflict points along the corridor.
Intersection Improvement(s)	Intersection improvements consist of: 1) a single lane roundabout at Hisey Avenue, 2) lane approach and signal coordination improvements at Henry Ford Drive and the interstate ramps, 3) channelized directional left turn lanes with taper at Motel Drive and Susan Avenue, 4) a hybrid – single lane roundabout at Ox Road with two lanes to accommodate eastbound Route 42 movements, 5) lane approach and signal optimization at Main Street.
Innovative Intersection(s) / Roundabout(s)	A single lane roundabout is proposed at Hisey Avenue and a hybrid, single lane roundabout with dual Route 42 eastbound lanes is proposed at Ox Road. The roundabouts will accommodate U-turn heavy vehicle movements.
Traffic Signal Modification	The existing signals at Henry Ford Drive and the interstate ramps will be optimized and coordinated. The existing signal at Main Street will be optimized.
Improve Rail Crossing	The existing, discontinued rail crossing along Route 42 will be improved with the project.

Bicycle and Pedestrian Improvements		
Construct Shared-Use Path	A 10' wide shared use path will be provided along the north side of Route 42, between Main Street and Ox Road (approx. 1,980') and between Woodstock Commons Drive and Hisey Avenue (approx 700'), filling in gaps in the existing pedestrian network. Buffer space between SUP and curb will vary depending on R/W width.	
Construct Sidewalk	New 5' sidewalk is proposed along the south side of Route 42 to fill in gaps in the existing pedestrian network. Sidewalk improvements will occur primarily at the intersections with the Exit 283 southbound ramps and Ox Road.	
Improve Bike/Pedestrian Crossing (At Grade)	The application includes pedestrian crossing improvements along the entire corridor, consisting of user activated pedestrian signal heads at signalized intersections, utilizing splitter islands for two-stage crossings at roundabout intersections, and a user activated rapid flashing beacon at the Susan Avenue intersection.	

Right-of-Way and Utilities	
Right-of-Way/Easements acquisition required	R/W acquisition will be required per the cost estimate.
Includes Utility Relocations	Utility relocation will be required per the cost estimate.



Accessibility

Accessibility	Response	Supporting Information
Project includes improvements to existing or new HOV/HOT lanes or ramps to HOV/HOT.	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 includes approximately 2,680 linear feet of new 10' wide shared use path along the north side of Route 42 to fill gaps in the existing sidewalk network.
This factor has been pre selected because you selected Add/Construct Bike Lane Feature and/or Construct Shared-Use Path		
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 includes segments of new 5' wide sidewalk along the south side of Route 42 to fill gaps in the existing sidewalk network (primarily at the intersections with Ox Road and Exit 283 southbound ramps).
This factor has been pre selected because you selected Add/Construct Bike Lane Feature and/or Construct Shared-Use Path		
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	

Environment

Environment	Response	Supporting Information	
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 includes approximately 2,680 linear feet of new 10' wide shared use path along the north side of Route 42 to fill gaps in the existing sidewalk network.	
This factor has been pre selected because you selected Add/Construct Bike Lane Feature and/or Construct Shared-Use Path			
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 includes segments of new 5' wide sidewalk along the south side of Route 42 to fill gaps in the existing sidewalk network (primarily at the intersections with Ox Road and Exit 283 southbound ramps).	
This factor has been pre selected because you selected Construct Sidewalk Feature and/or Construct Shared-Use Path			
Project include special accommodations for hybrid or electric vehicles, or space or infrastructure for electric vehicle parking/charging).	No		

n Delivery/Funding

Project Delivery Information

Project Planning Status

Project Administered By		Project Delivery Method
VDOT		Design-bid-Build
VDOT%	Locality%	Consultant%
100	0	0

Phase Estimate and Schedule

Phase Milestone		Status	
PE (Survey, Environme	ntal, Design)	Not Started	
Percent Complete	Cost Estimate	Start Date	End Date
0	\$1,362,372	2023-08-01	2027-01-31
Phase Milestone		Status	
RW (Right of Way and I Relocation)	Easement Acquisition, Utility	Not Started	
Percent Complete	Cost Estimate	Start Date	End Date
0	\$10,736,071	2027-02-01	2028-02-28
Phase Milestone		Status	
CN (Construction, Over Contingencies)	sight, Inspection,	Not Started	
Percent Complete	Cost Estimate	Start Date	End Date
	\$3,004,384	2028-03-01	2029-12-31

Total Cost Estimate: \$15,102,827

Project Funding Sources

Project UPC/DRPT Project ID	UPC Description	VDOT / DRPT (\$)	
		\$0	

Total SYIP: \$0

Other Committed Funds

Other Funds Committed to Project	Description of Fund Type	Amount
Troject		

Total Other Committed Funds: \$0

Cost Estimate

SMART SCALE Request

Total SYIP Allocations	\$0
Total Other Committed Funds	\$0
Total SMART SCALE Requested Funds	\$15,102,827
Total Project Funding	\$15,102,827
Total Cost Estimate	\$15,102,827

Economic Development Sites

Is this transportation project referenced in local Comprehensive Plan, local Economic Development Strategy or Regional Economic Development Strategy? Yes

First Bank Development

Site Name	Building square footage	Category of Property
First Bank Development	9000.00	Detailed Site Plan

Construction documents, engineering/architectural drawings, and specifications that include construction requirements for a project. These plans are detailed enough for construction and include details regarding building pad locations, grading, drainage, utilities, parking and entrances.

Approved

Access Provision

Project provides new direct access to the site or improves existing access to the site (site must be physically adjacent to the project). In case of capacity enhancement to limited access facility, new or improved interchange, transit rail capacity improvement, or new transit rail station zoned properties within 0.5 miles of the adjacent interchange(s) or rail station(s) qualify as receiving improved direct access.

Description	Attachment Type	File Name
Site Plan Approval	Approval Document for Site Development Plan	SitePlanReview_Approval_20180319.pdf
Site Plan (partial, size req)	Site Development Plan	17-0183_FIRSTBANK_SET-1STSUB_1-7.pdf

Project ID: 4714

Glenmont

Site Name	Building square footage	Category of Property
Glenmont	80000.00	Conceptual Site Plan

A conceptual sketch as part of a rezoning application that must include the following detail: 1) The location, area and density or floor area ratio (FAR) of each type of proposed land use within the development. 2) A delineation of developable land to exclude wetlands and terrain that will not be developed. 3) The location of any proposed roadway facility on site within the development's boundaries and the connectivity of the network addition as proposed. 4) The location of stub-outs on adjoining property and the existing land use of such adjacent property, if applicable, and the location of any proposed stub-outs within the network addition, if applicable.

Approved

Construction documents, engineering/architectural drawings, and specifications that include construction requirements for a project. These plans are detailed enough for construction and include details regarding building pad locations, grading, drainage, utilities, parking and entrances.

Approved

Access Provision

Project enhances economic development by improving congestion, mobility, access, or operations in the vicinity of the site but the site is not physically adjacent to the project

Description	Attachment Type	File Name
Final Plat Approval 244 lots	Approval Document for Site Development Plan	Final Plat Approval - 244 Lots.pdf
Site Plan abbr	Site Development Plan	Locke Property.pdf
Site Plan	Site Development Plan	CompleteApprovedSet.pdf

Glory Days Grill

Site Name	Building square footage	Category of Property				
Glory Days Grill	6470.00	Detailed Site Plan				

Construction documents, engineering/architectural drawings, and specifications that include construction requirements for a project. These plans are detailed enough for construction and include details regarding building pad locations, grading, drainage, utilities, parking and entrances.

Approved

Access Provision

Project provides new direct access to the site or improves existing access to the site (site must be physically adjacent to the project). In case of capacity enhancement to limited access facility, new or improved interchange, transit rail capacity improvement, or new transit rail station zoned properties within 0.5 miles of the adjacent interchange(s) or rail station(s) qualify as receiving improved direct access.

Description	Attachment Type	File Name
Site Plan Approval	Approval Document for Site Development Plan	ApprovalLetter.pdf
Site Plan abbr	Site Development Plan	Glory Days Grill_siteplan.pdf

45A4((A))65M

Site Name	Building square footage	Category of Property				
45A4((A))65M	34256.00	Zoned Only				

Development project lacks an approved or submitted conceptual or detailed site plan but is consistent with local comprehensive plan's future land use or zoning map and/or zoning code/ordinance. To be eligible, a zoned-only site must have primary access to the project or be directly adjacent to the project.

Existing

Access Provision

Project provides new direct access to the site or improves existing access to the site (site must be physically adjacent to the project). In case of capacity enhancement to limited access facility, new or improved interchange, transit rail capacity improvement, or new transit rail station zoned properties within 0.5 miles of the adjacent interchange(s) or rail station(s) qualify as receiving improved direct access.

Description	Attachment Type	File Name	
Site Location Map	Development Project Zoning/Proffer Reference	Woodstock_ED_Map_45A4-A-65M.jpg	

45A4((A))65V

Site Name	Building square footage	Category of Property
45A4((A))65V	25230.00	Zoned Only

Development project lacks an approved or submitted conceptual or detailed site plan but is consistent with local comprehensive plan's future land use or zoning map and/or zoning code/ordinance. To be eligible, a zoned-only site must have primary access to the project or be directly adjacent to the project.

Existing

Access Provision

Project provides new direct access to the site or improves existing access to the site (site must be physically adjacent to the project). In case of capacity enhancement to limited access facility, new or improved interchange, transit rail capacity improvement, or new transit rail station zoned properties within 0.5 miles of the adjacent interchange(s) or rail station(s) qualify as receiving improved direct access.

Description	Attachment Type	File Name
Site Location Map	Development Project Zoning/Proffer Reference	Woodstock_ED_Map_45A4-A-65V.jpg



Project

Located in Typology														
Category D	Congestion Mitigation		Saf	ety	Ac	cessibi	lity		conomi velopm		Enviro	onment	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		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		Increase Transportation-Efficient Land Use
Measure Value	20.4 persons	0.5 person hrs.	60.5 EPDO	1,091.0 EPDO/ 100M VMT	jobs per resident	jobs per resident	61.3 adjusted users	202,054.4 thousand adj. sq. ft.	12,444.1 thousand adj. daily tons	adj. buffer time index	81.7 adjusted points	scaled points	access * pop/emp density.h	access * pop/emp density change
Normalized														

Project Located in Typology														
Category D	Congestion Mitigation		Saf	ety	Ac	cessibi	lity		conomi velopm		Enviro	onment	Lanc	l Use
Measure Value (0-100)	0.1	0.0	17.4	2.3	0.1	0.2	0.2	1.0	0.3	0.3	0.6	7.6		
Measure Weight (% of Factor)	50%	50%	50%	50%	60%	20%	20%	60%	20%	20%	50%	50%		
Factor Value	0	.0	9.	.8		0.2			0.7 4.1					
Factor Weight (% of Project Score)	10%		30%		15%			35%			10%		N/A	
Weighted Factor Value	0	.0	2.	.9	0.0 0.3					0	.4			
Project Benefit							3	.6						
SMART SCALE Cost							\$15,1	02,827	,					
SMART SCALE Score (Project Benefit per \$10m SMART SCALE Cost)		\$15,102,827												



Current Attachments

ffic-Data-
on.pdf
42-Concept.pdf
Route-42_Hisey- G18 (002).xlsx
42-Tech-Memo-
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·DRPT·

VDOT

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