



GI-95/I-64 Overlap: Broad Street Exit

Improvements

Scored

HB 2 Application

Project Application ID: 449



Project Information

Project Title GI-95/I-64 Overlap: Broad Street Exit Improvements Principal Improvement Highway

Organization Name City of Richmond

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

Project Description

This proposed concept includes Long-Term concepts #5 - #6 from the I-95/I-64 Overlap Study and is a combination of interstate and surface street improvements that would provide a comprehensive set of improvements to the Broad Street interchange area. Specific improvements are summarized in Table 34 of the Study. This funding would be used to construct the surface street improvements, construct a cul-de-sac on Oliver Hill Way to the north of Venable Street, and construct roundabouts at the intersections of: Broad Street & 17th Street; Oliver Hill Way & Venable Street; 18th Street & Venable Street; Mosby Street & Venable Street and Mosby Street & Leigh Street Viaduct. This project would prepare the surface streets for any future phases necessary in the long-term interstate improvements.

HB2 Need Categories	Application Program
Corridor of Statewide Significance	Statewide High Priority
Regional Network	District Grant
Safety	

How does this project address VTrans 2040 need? The I-95/I-64 Overlap – Broad St and 17th St Interchange Improvements is located on a 'Corridor of Statewide Significance' and meets Need H identified for the East-West Corridor and Need F for the Washington to North Carolina Corridor for the Commonwealth of Virginia as identified in the VTrans2040 Statewide Multimodal Transportation Plan; and

The I-95/I-64 Overlap – Broad St and 17th St Interchange Improvements is located on a 'Regional Network' and meets Need A for the Commonwealth of Virginia as identified in VTrans2040 Statewide Multimodal Transportation Plan

I-95 in this area is one of only three locations statewide designated by the 2003 General Assembly as a Highway Safety Corridor. This location was selected on the basis of crash frequency, overall crash rate, truck involved crash rate, enforcement considerations and roadway characteristics. The I-95/I-64 Overlap – Broad St and 17th St Interchange Improvements is located on a designated Highway Safety Corridor and meets the safety needs for the Commonwealth of Virginia as identified in VTrans2040 Statewide Multimodal Transportation Plan

To improve safety and operations at the Broad St and 17th St interchange. This is one phase of the long range improvements described in the March 2013 I-95/I-64 Overlap Study. A combination of grade separations, ramp configurations, weave elimination and surface street improvements are needed.

Currently buffered bike lanes on Oliver Hill Way terminate at the interchange, leaving bicyclists to negotiate off-ramp traffic entering the surface streets at high speeds, weaving movements and an add-lane. A roundabout would create a much more bicycle and pedestrian scale roadway with lower speeds and less complexity. The area is seeing significant redevelopment and Oliver Hill Way now has residential and commercial space along it, but it is not bike or pedestrian friendly, feeling instead like a freeway. The corridor is a critical linkage to the Cannon Creek Greenway and Shockoe Bottom.



PDCs Served	MPOs Served
Richmond Regional	Richmond Area MPO
Jurisdictions Served	Districts Served
Richmond city	Richmond



Project Improvements

Highway	
Improvement	Comments
Roadway Reconstruction/Realignment	Realign Oliver Hill Way to cul-de-sac and change traffic patterns from one-way to two way.
Ramp Improvement(s)	Improve off ramp to include roundabout to access Leigh Street Viaduct over I-95 and bypass lane to access Broad Street.
Intersection Improvement(s)	Construct five roundabouts.
Bike/Pedestrian	
Improvement	Comments
Construct Sidewalk	Construct sidewalks in roundabout areas.
Improve Bike/Pedestrian Crossing (At Grade)	Improve pedestrian crossings.
Add/Construct Bike Lane	A bike facility will be provided at Oliver Hill Way and 17th Street.
Right of Way	Commonto
Right of Way/Easements acquisition required	ROW will be required at the roundabout locations.

Factors

Accessibility Measure	Response	Additional Notes
Project includes transit system improvements or reduces delay on a roadway with scheduled peak service of one transit vehicle per hour.	Yes	GRTC bus routes. VCU Shuttle Service
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	Yes	A bike facility will be provided at Oliver Hill Way and 17th Street. The corridor serves as

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facilities are required.		a major connection to the Cannon Creek Greenway and communities north of downtown. The buffered bike lanes terminate at the interchange and this reconfiguration would facilitate continuation into Shockoe Bottom.
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	Replacement of pedestrian facilities such as sidewalks and crosswalks with construction of roundabouts.
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.	Yes	CCTV Coverage
Land Use and Transportation Coordi	nation Response	Additional Notes
Land Use and Transportation Coordi Measure Does the project promote walkable/bicycle friendly, mixed-use development?	nation <u>Response</u> Yes	Additional Notes Project buffer is within areas zoned for mixed-use development. Conversion of streets from one-way to two- way promotes more biking and walking while reducing vehicle speeds.
Land Use and Transportation Coordi Measure Does the project promote walkable/bicycle friendly, mixed-use development? Does the project promote in-fill development?	nation Response Yes	Additional Notes Project buffer is within areas zoned for mixed-use development. Conversion of streets from one-way to two- way promotes more biking and walking while reducing vehicle speeds. Significant infill and adaptive reuse is taking place, but this corridor presents a major barrier, especially for bike and pedestrian travel. Reconfiguring the interchange and intersecting streets will significantly alter the context of the area (from that akin to a freeway to an urban roadway environment).

Environment						
Measure		Response A	Additio	onal Notes		
Project includes const	ruction or replacement	Yes A	A bike f	acility will be provided		
of bike facilities. For bid	cycle projects, off-road	a	t Olive	er Hill Way and 17th		
or on-road buffered or	clearly delineated	S	Street.			
facilities are required.						
Project includes const	ruction or replacement	Yes R	Replace	ement of pedestrian		
of pedestrian facilities.	For pedestrian	fa	acilities	s such as sidewalks		
projects, sidewalks, pe	destrian signals,	а	ind cro	sswalks with		
marked crosswalks, rei	luge islands, and other	C	onstru	ction of roundabouts.		
treatments are required	a (as appropriate).	N1				
Project includes impro		NO				
Or passenger rail facilit	les.	No				
Project includes impro		INO				
noro oposeu park-anu-i	lide lot (e.g., fiew lot,					
(navment_traveler info	rmation))					
Project includes bus fa	cility improvements or	Ves G				
reduces delay on a roa	dway with scheduled	- 103 - 00 S	Shuttle	Service		
peak service of one tra	insit vehicle per hour *	0	mattic	OCIVICC		
Project includes impro	vements to freight rail	Νο				
network or intermodal ((truck to rail)					
facilities/ports/terminals	S.					
Project include special	I accommodations for	No				
hybrid or electric vehicl	les, or space or					
infrastructure for electri	ic vehicle					
parking/charging).						
Project includes energ	y efficient	Yes L	.ED Lig	ghting		
infrastructure or fleets,	including: hybrid or					
electric buses, LED ligh	nts and signals,					
electronic/open road to	illing, alternative					
energy infrastructure (e	e.g., roadside solar					
panels).						
Economic Deve	lopment Factors					
			•	/ I/ I/I		
Transportation project	(consistency with	Transportation p	project	(consistency with		
Economic Dovelopment	Plan or Local	Regional Econor	mic De	evelopment Strategy)		
Poforoncod In	nt Strategy)	Consistant With				
Site Name	Development project (consistent with		Development project		
	locality Comprehensiv	e Plan/Zoning)		(site plan status)		
VCU Health System	Specific reference			Approved		
Childrens Hospital of						

Richmond							
Development project (site utilities status)	Development project (proposed (or projected) building square footage)	Driving distance to development project from transportation project	Does Transportation Project Provide Direct Access or Indirect Access to the Development Site 2				
In place	758034	0.5	Enhances Access Near the Site But is Not Adjacent to the Site				
Site Name	Development project (locality Comprehensiv	consistent with e Plan/Zoning)	Development project (site plan status)				
Signet Bank Building	Consistent with comp. use/zoning	plan future land	Approved				
Development project (site utilities status)	Development project (proposed (or projected) building square footage)	Driving distance to development project from transportation project	Does Transportation Project Provide Direct Access or Indirect Access to the Development Site?				
In place	328887	0.8	Enhances Access Near the Site But is Not Adjacent to the Site				
Site Name	Development project (consistent with	Development project				
Powers Taylor Building	Consistent with comp. use/zoning	locality Comprehensive Plan/Zoning) Consistent with comp. plan future land use/zoning					
Development project (site utilities status)	Development project (proposed (or projected) building square footage)	Driving distance to development project from transportation project	Does Transportation Project Provide Direct Access or Indirect Access to the Development Site?				
In place	23892	0.6	Enhances Access Near the Site But is Not Adjacent to the Site				
Site Name	Development project (consistent with	Development project				
Roaring Pines	Consistent with comp. use/zoning	/e Pian/∠oning) plan future land	(site plan status) Approved				

Development project (consistent with locality Comprehensive Plan/Zoning) Consistent with comp. plan future land use/zoning					
Driving distance to development project from transportation project	Does Transportation Project Provide Direct Access or Indirect Access to the Development				
0.9	Enhances Access Near the Site But is Not Adjacent to the Site				
	Driving distance to development project from transportation project 0.9				

Delivery/Funding

Project Delivery Information

Project Planning Status

Constrained Long Range Plan (MPO)

Vision Long Range Plan (MPO)

Planning/Safety Study

State Transportation Plan

Project Administered By Locality

Existing Pro	ject UPCs or P	roject Numbers	Design-bid-B	very Method uild
Please indica VDOT: N/A	ite who will be/v	was responsible Locality: 5%	for the design c	of this project Consultant: 95%
Phase Es	stimate and	I Schedule		
PE (Surve Status Not Started	y, Environme	ental, Design))	Percent Complete
Cost Estima \$2,584,530	te	Start Date 08/02/2016		End Date 06/29/2019
RW (Right Status Not Started Cost Estimat \$7,738,120	of Way and	Easement Ad Start Date 06/30/2019	cquisition, Ut	tility Relocation) Percent Complete Not Provided End Date 10/30/2020
CN (Const Status Not Started	ruction, Ove	rsight, Inspec	tion, Conting	gencies) Percent Complete 0%
Cost Estima \$17,720,000	te	Start Date 11/11/2020		End Date 07/01/2022
				Total Cost Estimate \$28,042,650.00
Project Fu	nding Source	es		
riojecti u	Other	Other	HB2 Amount	Total Proposed Project
SYIP Allocations	Committed Funding	Funding	Requested	

CommittedRequestedFundingFundingAmountAmountDescriptionDescription
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Project Located in Typology													
Category B	Conge Mitiga	estion ation	Saf	ety	A	ccessib	ility	Enviro	nment	Economic Development			Land Use
	Increase in Daily Person Throughput	Decrease in Person Hours Delay	Reduction in Fatal and Severe Injury	Reduction in Fatal and Severe Injury Rate	Increase in Access to Jobs	Increase in Access to Jobs for Disadvantaged Populations	Improved Access to Multimodal Choices (Users Benefit Value)	Air Quality (Total Benefit Value)	Acres of Natural/Cultural Resources Potentially Impacted	Economic Development Support (Sq. ft.)	Intermodal Access Improvements (Tons Benefit Value)	Travel Time Reliability Improvement	Transportation Efficient Land Use
Measure Score	0.7	0.0	11.2	5.6	0.0	0.0	0.0	0.0	0.0	0.9	0.4	15.2	36.1
Measure Weight	50 %	50 %	50 %	50 %	60 %	20 %	20 %	50 %	50 %	60 %	20 %	20 %	100 %
Weighted Measure Score	0.3	0.0	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.6	0.1	3.0	3.6
Raw Factor Score	0.	3	8.	.4		0.0		0.	.0	3.7			36.1
Factor Weighting	15	%	20	%		25 %		10	%		20 %		10 %

Weighted Factor Score	0.1	1.7	0.0	0.0	0.7	3.6				
Project Score		6.1								
Total Project Cost		\$28,042,650								
Score Divided by Total Cost		2.2								
HB2 Cost		\$28,042,650								
Project Benefit Score / HB2 Cost		2.2								

C Supporting Documents

Current Attachments

Description

Regional Strategy

File Name

 $g_broad\&17_regional strategy.pdf$

Description Local Plan

File Name g_broad17th_localplan.pdf

Description VCU Medical

File Name

project86_vcumedical2.docx

Description Gateway Plaza

File Name

project78_gateway2.docx

Description Signet Bank

File Name project114_signetbank2.docx

Description Powers Taylor Building

File Name project126_powerstaylor.docx

Description Roaring Pines

File Name project113_venable.docx

Description 523 E Main

File Name project123_124_523main.docx

Description

VCU Medical Zoning Reference

File Name

project86_reference_vcumedical.docx

Description Project Sketch

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File Name g_broad.docx

Description Previous Study

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File Name g_overlapstudy.docx

Description

TPO Support

File Name

tab 7 - item iii-b - ri7-i95-broad at 17th st off ramp improve - signed.pdf

Description Project Cost Estimate

File Name

v2_g_costestimate.pdf

Description

449.I-95_I-64 Overlap Broad Street Exit.16OCT2015.COSS.A3.pdf

File Name

449.i-95_i-64 overlap broad street exit.16oct2015.coss.a3.pdf

