

Route 419 Widening, Safety, and Multimodal Improvements

Submitted

HB 2 Application

Project Application ID: **256**

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General

Point of Contact Information

Point of Contact Name

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Project Information

Project Title

Route 419 Widening, Safety, and
Multimodal Improvements

Principal Involvement

Highway

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

No

Project Description

The project will add an additional lane to SB Route 419 (Electric Rd) from Route 867 (Ogden Rd) to Route 220, to improve capacity during peak hours. Existing pavement sections, with existing curb, gutter and drainage, would be used to the extent possible. Additional pavement would be added where necessary, with associated curb, gutter and drainage structures where necessary. In order to construct drainage structures and

shoulder, a section of retaining wall would be constructed from South Peak Drive SB toward Route 220. The NB and SB lanes will be restriped after a pavement overlay to provide minimum 11 foot lanes and a dedicated bike lane. Sidewalks will be constructed approximately 0.26 miles on the SB side from Route 867 to South Peak Blvd. Sidewalk will be constructed approximately 0.60 miles NB from Route 867 to the Route 220 interchange NB on ramp. Where necessary, small retaining walls would be constructed between the Route 220 off ramp to NB Route 419, to the first (easternmost) entrance to Tanglewood Mall. Crosswalks with pedestrian signals will be added at three existing signalized intersections: Route 867/Route 419, Route 706/Route 419, and Tanglewood Mall/South Peak Blvd/Route 419. Sidewalk, pedestrian signal and crosswalk construction would advance existing HSIP project, UPC 107061. An overhead sign would be constructed east of the Elmview Rd intersection, to direct southbound through traffic into the left lane, NB Route 220 traffic in the center lane, and SB Route 220 traffic in the right lane. Consolidate the three existing Valley Metro bus stops into one or two stops with sidewalk access. Construct a bus shelter in front of Copper Croft apartments (location not shown on plans). The right of way may be sufficient to accomplish the permanent improvements but easements may be required for construction along with utility relocations.

HB2 Need Categories

Regional Network
Urban Development Area
Safety

Application Program

Statewide High Priority
District Grant

How does this project address VTrans 2040 need?

Roanoke MPO Region Needs Summary Map / Corridor Based and Activity Center Based Needs TDM Regional Corridor - Consolidate existing transit stops and construct bus shelter, with new sidewalks leading to shelter. Modal Choice - Add bike lanes, sidewalks, crosswalks, pedestrian signals and bus shelter in busy activity center with existing pedestrian, bicycle and mass transit use. Corridor Reliability - Add outside SB through lane ending at SB Route 220 on ramp. Add SB overhead sign directing through, NB Route 220 and SB Route 220 traffic into left, center and right lanes. Walkable / Bikeable Places - Construct facilities to safely accommodate existing bicycle and pedestrian use along corridor and connecting to City of Roanoke. City of Roanoke portion of the project is an identified Urban Development Area. Bottleneck Relief - The Tanglewood Mall area is a significant bottleneck for both Route 419 and Route 220. Additional outside through lane proposed to add capacity and channel Route 220 traffic before reaching onramp. Statewide Safety Needs Map 419 Safety SR00419 .15 mile segment identified on safety needs map lies within proposed improvements Route 706 / Route 419 Intersection - Object ID_12 500 location also within the proposed improvements Designated Growth Areas Area #5, Route 419/220/Cave Spring/Windsor Hills Comprehensive Plan amendment adopted by Roanoke County Board of Supervisors, 09/22/2015, documents Designated Growth Areas. Project would reduce congestion and enhance safety within the DGA, as well as provide access to the DGA from City of Roanoke. City of Roanoke portion of the project is an identified Urban Development Area.

Location

Areas Served

PDCs Served

Roanoke Valley-Alleghany Regional
Commission

MPOs Served

Roanoke Valley Area MPO

Jurisdictions Served

Roanoke city
Roanoke County

Districts Served

Salem

Features

Project Improvements

Highway

Improvement	Comments
Add New Through Lanes(s)	Add new through lane to SB Route 419 approximately 0.44 miles from Route 867 to Route 220.
Widen Existing Lane(s) (No New Lanes)	Use existing shoulder and turn lane to add new outside through lane.
Ramp Improvement(s)	Extend SB Route 220 on ramp entrance with new SB Route 419 outside lane.
Shoulder Improvement(s)	Add drainage structures and improve shoulder between South Peak Blvd and Route 220.
Road Diet	The NB and SB lanes will be restriped after a pavement overlay to provide minimum 11 foot lanes and a dedicated bike lane.
Highway Other	An overhead sign would be constructed east of the Elmview Rd intersection, to direct southbound through traffic into the left lane, NB Route 220 traffic in the center lane, and SB Route 220 traffic in the right lane. See attachment "Design Plan, Typical Section, Rendering and Bus Shelter" to view a rendering of the

proposed sign (page 3).

Bike/Pedestrian

Improvement	Comments
Add/Construct Bike Lane	Bike lanes will be added to Route 419 NB and SB from Route 867 to Route 220 0.44 miles in each direction by restriping the existing roadway.
Construct Sidewalk	Sidewalks will be constructed approximately 0.26 miles on the SB side from Route 867 to South Peak Blvd. Sidewalk will be constructed approximately 0.60 miles NB from Route 867 to the Route 220 interchange NB on ramp.
Improve Bike/Pedestrian Crossing (At Grade)	Crosswalks with pedestrian signals will be added at three existing signalized intersections: Route 867/Route 419, Route 706/Route 419, and Tanglewood Mall/South Peak Blvd/Route 419. Sidewalk and crosswalk construction would advance existing HSIP project, UPC 107061.
Bike/Pedestrian Other	Include \$1,000,000 HSIP funds in project design and construction (UPC 107061).
Improve Bike/Pedestrian Crossing (Grade Separated)	Sidewalks to be constructed along Route 419/Business Route 220 and under Route 220 through the interchange will improve accommodations for existing pedestrian traffic. See attachment "Design Plan, Typical Section, Rendering and Bus Shelter" to view the Design Plan (page 1) and Typical Sections (page 2).

Bus Transit

Improvement	Comments
Construct Bus Stop / Shelter	Consider consolidation of three existing stops and add shelter in front of Copper Croft Apartments. An overhead sign would be constructed east of the Elmview Rd intersection, to direct southbound through traffic into the left

lane, NB Route 220 traffic in the center lane, and SB Route 220 traffic in the right lane. See attachment "Design Plan, Typical Section, Rendering and Bus Shelter" to view specifications for a typical bus shelter (page 4).

Improve Bus Stop/ Shelter

New sidewalks, crosswalks and pedestrian signals will provide improved access to consolidated bus stops/bus shelter.

Right of Way

Improvement

Comments

Right of Way/Easements acquisition required

Right of way may be sufficient, but easements may be required for construction and utility relocations.

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.	Yes	Consolidate bus stops and construct bus shelter at Copper Croft Apartments. Sidewalk, crosswalks and pedestrian signals will improve access to bus stops/bus shelter.
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	Bike lanes will be added to the project NB and SB from Route 867 to Route 220.
Project includes construction or replacement of pedestrian facilities. For	Yes	Sidewalks will be included with the project

pedestrian projects, sidewalks, pedestrian signals, marked crosswalks, refuge islands, and other treatments are required (as appropriate).

along with pedestrian signalization and marked crosswalks at three existing signalized intersections.

Project includes improvements to existing or new HOV/HOT lanes or ramps to HOV/HOT.	No
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Project provides real-time traveler information or wayfinding specifically for intermodal connections (access to transit station or park and ride lot).	No
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Provides traveler information or is directly linked to an existing TMC network/ITS architecture.	No
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Land Use and Transportation Coordination

Land Use	Response	Additional Notes
Does the project promote walkable/bicycle friendly, mixed-use development?	Yes	Apartments, grocery store, retail shops, restaurants, offices, banks, regional mall all within local activity center around Tanglewood Mall.
Does the project promote in-fill development?	Yes	Future redevelopment of Tanglewood Mall would be served by all multi-modal components.
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?	Yes	Route 419 Corridor Plan 2010

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.	Yes	Bike lanes will be added to the project NB and SB from Route 867 to Route 220.

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	Sidewalks will be included with the project along with pedestrian signalization and marked crosswalks at three existing signalized intersections.
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.*	Yes	Consolidate bus stops and construct bus shelter at Copper Croft Apartments. Sidewalk, crosswalks and pedestrian signals will improve access to bus stops/bus shelter
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, LED lights and signals, 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)

Consistent with

Transportation project (consistency with Regional Economic Development Strategy)

Consistent with

Site Name	Development project (consistent with locality Comprehensive Plan/Zoning)		Development project (site plan status)
South Peak	Consistent with comp. plan future land use/zoning		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	320,000 sq ft	0.05 miles	Provides Primary Access to the Site or is Adjacent to the Site

 **Delivery/Funding**

Project Delivery Information

Project Planning Status

- Vision Long Range Plan (MPO)
- Other Regional Plan
- Transportation Element of Local Comprehensive Plan
- Planning/Safety Study
- State Transportation Plan

Project Administered By

VDOT

Existing Project UPCs or Project Numbers

107061

Project Delivery Method

Design-bid-Build

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

VDOT :

100%

Locality:

%

Consultant:

%

Phase Estimate and Schedule

PE (Survey, Environmental, Design)

Phase Milestone

PE (Survey, Environmental, Design)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$968,164.00

Start Date

08/03/2016

End Date

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

Phase Milestone

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

Status

Not Started

Percent Complete

0%

Cost Estimate

\$506,710.00

Start Date

09/11/2019

End Date

CN (Construction, Oversight, Inspection, Contingencies)

Phase Milestone

CN (Construction, Oversight, Inspection, Contingencies)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$4,378,558.00

Start Date

01/12/2021

End Date

08/15/2022

Total Cost Estimate

\$5,853,432.00

Project Funding Sources

SYIP Allocations

Other Committed Funding Amount

\$1,000,000.00

Other Requested Funding Amount

HB2 Amount Requested

\$4,853,432.00

Total Proposed Project Funding

\$4,853,432.00

**Other
Committed
Funding
Amount
Description**

HSIP UPC
107061

Supporting Documents

Current Attachments

Description

Roanoke County Community Plan (2005) Long Range Plan

Attachment Type

Local Comprehensive Plan

File Name

comp plan ch 4 transportation long range plan highlighted.pdf

Description

Regional Pedestrian Vision Plan (2015) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

regional pedestrian vision plan roanoke county excerpts 419 9-21-15.pdf

Description

Summary of local plans and comprehensive plans that relate to funding requests.

Attachment Type

Local/Regional Economic Development Strategy

File Name

consistency with local comprehensive plan.pdf

Description

Bikeway Plan for the Roanoke Valley Area Metropolitan Planning Organization (2012) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

rvampo bikeway plan 2012 update roco excerpts 419 9-21-15.pdf

Description

Summary of regional economic development strategies that relate to project funding requests.

Attachment Type

Local/Regional Economic Development Strategy

File Name

consistency with regional economic development strategy.pdf

Description

RVAMPO Constrained Long-Range Transportation Plan 2035 (2011) Excerpts

Attachment Type

Other

File Name

rvampo-clrtp-2035-hb2 roco excerpts 419 9-22-15.pdf

Description

Regional Pedestrian Vision Plan Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

regional pedestrian vision plan.pdf

Description

2005 Community Plan Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

2005 community plan excerpt.pdf

Description

Partnership for a Livable Roanoke Valley Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

partnership for a livable roanoke valley plan.pdf

Description

Roanoke Valley Economic Development Strategy Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

roanoke valley economic development strategy.pdf

Description

Route 419 Corridor Plan Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

route 419 corridor plan.pdf

Description

Bikeway Plan for the Roanoke Valley Excerpts

Attachment Type

Local/Regional Economic Development Strategy

File Name

bikeway plan for the roanoke valley.pdf

Description

South Peak Master Plan

Attachment Type

Local/Regional Economic Development Strategy

File Name

south peak master plans.pdf

Description

Texas Roadhouse Site Plan

Attachment Type

Local/Regional Economic Development Strategy

File Name

texas roadhouse plan.pdf

Description

Design Plan, Typical Section, Rendering and Bus Shelter

Attachment Type

Project Sketch

File Name

419 plan typical section rendering shelter.pdf

Description

Route 419 Corridor Plan (2010) Excerpts

Attachment Type

Access Management Plan or Zoning Overlay

File Name

419 plan excerpts 9-21-15.pdf

Description

Roanoke County Board of Supervisors resolution supporting HB2 projects

Attachment Type

Resolution of Support

File Name

09-22-#5-d-reso-resolution house bill 2 projects_1.pdf

Description

Roanoke County Board of Supervisors Comprehensive Plan Amendment
Designated Growth Areas

Attachment Type

Local Comprehensive Plan

File Name

designated growth areas - resolution - text amendment - map.pdf

Description

Route 419 Widening, Safety, and Multimodal Improvements Cost Estimate

Attachment Type

Detailed Cost Estimate

File Name

0080_03 - rte 419 improvements attanglewood - pces estimate.xlsx

Description

Virginia Surface Transportation Plan 2035 (2010) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

vtrans 2035 excerpts 419 9-28-15.pdf

Description

Virginia Surface Transportation Plan 2035 UPDATE (2013) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

2035 va surface trans plan excerpts 9-28-15.pdf

Description

Texas Roadhouse Development Application

Attachment Type

Site Development Plan

File Name

texas roadhouse development application.pdf

Description

South Peak Master Plan Approval Letter

Attachment Type

Site Development Plan

File Name

south peak master plan approval letter.pdf



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