

Lila Drive / Route 115 Intersection Safety Improvements

Submitted

HB 2 Application

Project Application ID: **262**

Created: 09/18/2015 @ 2:24PM by David Holladay

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General

Point of Contact Information

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

Project Title	Principal Involvement
Lila Drive / Route 115 Intersection Safety Improvements	Bike/Pedestrian

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

No

Project Description

The Lila Drive/Route 115 Intersection Safety Improvements project will install a traffic signal at the intersection of Route 115 (Plantation Road) and Lila Drive. The Lila Drive project will include pedestrian actuated signals and crosswalks to connect to a shared use path to be constructed with the Plantation Road Project. The Lila Drive project will reconstruct approximately 420 feet of Lila Drive in order to relocate the Harris/Exelis entrance from

Plantation Road to Lila Drive. The project includes additional access management improvements at Wells Fargo and at BSC Ventures/Double Envelope by combining parking lot entrances. Right of way impacts and damages are anticipated due to the relocation of the Harris/Exelis entrance from Plantation Road to Lila Drive which will require relocation of a security gate and guard stand. The Lila Drive project is an integral component of and lies in the center of the Plantation Road Bicycle Pedestrian and Streetscape Improvements Project (UPCs 98220, 101267 and 103607) which includes shared use paths, sidewalks, pedestrian crosswalks and signals, street trees, pedestrian-scaled lighting, landscaping and drainage improvements. The Plantation Road project will also connect planned bicycle and pedestrian accommodations to the Tinker Creek Greenway which connects to over 40 miles of trails at Carvins Cove Natural Reserve.

HB2 Need Categories

Regional Network
Urban Development Area
Safety

Application Program

District Grant

How does this project address VTrans 2040 need?

Roanoke MPO Region Needs Summary Map Activity Center Based Needs Modal Choice - This project will add pedestrian accommodations, and connect to bicycle and pedestrian components of the Plantation Road Bicycle Pedestrian and Streetscape Improvements Project (UPCs 98220, 101267 and 103607), Walkable/Bikeable Places - This project is an integral component of the Plantation Road Project. The project will include pedestrian actuated signals and crosswalks to connect to a shared use path to be constructed with the Plantation Road Project. Designated Growth Area Area #1, I-81/Glenvar/Hollins Comprehensive plan amendment adopted by Roanoke County Board of Supervisors, 09/22/2015, documents Designated Growth Areas (DGAs). The project would enhance modal choices and help make a walkable/bikeable place within the DGA, as well as provide access to the DGA from neighboring jurisdictions. This project is an integral component of the Plantation Road Project, an existing project to promote walkable/bicycle friendly mixed use development on a major entry corridor into Roanoke County. The Plantation Road activity center is the densest employment center in Roanoke County and Lila Drive lies between the three largest employers in the area: Wells Fargo, Harris/Exelis, and BSC Ventures/Double Envelope. The project also lies between and connects two Corridors of Statewide Significance: Interstate 81 and Route 11 (Williamson Road). This intersection is currently a safety concern due to a history of angle accidents caused by vehicles turning left from Lila Drive onto Plantation Road. Limited sight distance, a 45 MPH speed limit and heavy truck traffic also create challenging conditions for vehicles leaving Lila Drive. VDOT Staff have determined that a traffic signal is warranted at this location, as part of the Plantation Road Project. Further, it has been decided that this intersection is the best and only place for a bicycle and pedestrian crossing of Plantation Road between Williamson Road and Gander Way/Friendship Lane.

Location

Areas Served

PDCs Served

Roanoke Valley-Alleghany Regional
Commission

MPOs Served

Roanoke Valley Area MPO

Jurisdictions Served

Roanoke County

Districts Served

Salem

Features

Project Improvements

Highway

Improvement	Comments
Access Management	The Lila Drive project will reconstruct approximately 420 feet of Lila Drive in order to relocate the Harris/Exelis entrance from Plantation Road to Lila Drive. The project includes additional access management improvements at Wells Fargo and at BSC Ventures/Double Envelope by combining parking lot entrances.
Roadway Reconstruction/Realignment	The project will reconstruct approximately 420 feet of Lila Drive.
Intersection Improvement(s)	The project will include pedestrian actuated signals and crosswalks to connect to a shared use path to be constructed with the Plantation Road Project.
New Traffic Signal/Signal Optimization	This project will install a traffic signal at the intersection of Route 115 (Plantation Road) and Lila Drive with pedestrian actuated signals and crosswalks.
Shoulder Improvement(s)	The project will install curb and gutter on Plantation Road and on Lila Drive where there is currently no curb or gutter.
Turn Lane Improvement(s)	Plantation Road is currently five lanes

wide with a center two-way left turn lane. Exclusive left turn lanes will be striped approaching the new traffic signal for access to Lila Drive and to BSC Ventures/Double Envelope. Lila Drive is currently unstriped and functions with one eastbound lane and one westbound lane. Lila Drive will be striped approaching the new traffic signal to allow one eastbound lane and two westbound lanes (one for left turns and one for right turns.)

Bike/Pedestrian

Improvement	Comments
Construct Sidewalk	The project will include sidewalks along Lila Drive connecting to planned sidewalks on the east side of Route 115, crosswalks with pedestrian actuated signals, and a shared use path planned for the west side of Route 115.
Improve Bike/Pedestrian Crossing (At Grade)	The project will add crosswalks with pedestrian actuated signals on Route 115. The only signalized pedestrian crossing in the vicinity is at the intersection of Route 11 and 115, approximately 2,400 feet to the south.
Bike/Pedestrian Other	This project is an integral component of the Plantation Road Bicycle Pedestrian and Streetscape Improvements Project (UPC 98220, 101267 and 103607) which will ultimately connect over 40 miles of trails at Carvins Cove Natural Reserve to Walrond Park, one of Roanoke County's busiest parks, via the Tinker Creek Greenway, sidewalks and shared use paths.

Right of Way

Improvement	Comments
Right of Way/Easements acquisition required	Right of way impacts and damages are anticipated due to the relocation of the

Harris/Exelis entrance from Plantation Road to Lila Drive which will require relocation of a security gate and guard stand.

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.	No	
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 will include sidewalks along Lila Drive, connecting sidewalks on Route 115, and crosswalks with pedestrian actuated signals. The project will add crosswalks with pedestrian actuated signals on Route 115.
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 and Transportation Coordination

Land Use	Response	Additional Notes
Does the project promote walkable/bicycle friendly, mixed-use development?	Yes	This project is an integral component of the Plantation Road Bicycle Pedestrian and Streetscape Improvements Project (UPC 98220, 101267 and 103607), an existing project to promote walkable/ bicycle friendly mixed use development on a major entry corridor into Roanoke County. The Plantation Road activity center has the highest concentration of employees in Roanoke County.
Does the project promote in-fill development?	Yes	The Lila Drive traffic signal and road improvements will serve existing businesses Wells Fargo, Harris/Exelis and BSC Ventures/Double Envelope, as well as potential future development of adjacent agricultural lands anticipated to be developed in the future with commercial, institutional or industrial uses.
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	Please see the attached Hollins Area Plan excerpts and the Plantation Road Corridor Study excerpts.

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.	No	
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 will include sidewalks along Lila Drive, connecting sidewalks on Route 115, and crosswalks with pedestrian actuated signals. The project will add crosswalks with pedestrian actuated signals on Route 115.
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, 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)

Referenced in

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)
Heritage Village	Consistent with comp. plan future land use/zoning		Submitted
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	159,450 sq ft	0.3 miles	Enhances Access Near the Site But is Not 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

98220

Project Delivery Method

Design-bid-Build

101267
103607

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

VDOT :

100%

Locality:

0%

Consultant:

%

Phase Estimate and Schedule

PE (Survey, Environmental, Design)

Phase Milestone

PE (Survey, Environmental, Design)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$190,981.00

Start Date

08/01/2016

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

\$85,000.00

Start Date

09/01/2017

End Date

06/08/2018

CN (Construction, Oversight, Inspection, Contingencies)

Phase Milestone

CN (Construction, Oversight, Inspection,
Contingencies)

Status

Not Started

Percent Complete

0%

Cost Estimate

\$993,415.00

Start Date

11/30/2018

End Date

11/15/2019

**Total Cost
Estimate**

\$1,269,396.00

Project Funding Sources

SYIP Allocations	Other Committed Funding Amount	Other Requested Funding Amount	HB2 Amount Requested	Total Proposed Project Funding
			\$1,269,396.00	\$1,269,396.00

 Supporting Documents

Current Attachments

Description
Summary showing consistency of the project with local plan documents.

Attachment Type
Local/Regional Economic Development Strategy

File Name
consistency with local comprehensive plan.pdf

Description
Summary of plans showing consistency of the project with regional economic development strategies.

Attachment Type
Local/Regional Economic Development Strategy

File Name
consistency with regional economic development strategy.pdf

Description
Highlighted excerpt of the 2005 Community Plan

Attachment Type
Local/Regional Economic Development Strategy

File Name
2005 community plan.pdf

Description

Highlighted Excerpt of the Hollins Area Plan

Attachment Type

Local/Regional Economic Development Strategy

File Name

hollins area plan excerpt.pdf

Description

Highlighted excerpt of the Livable Roanoke Valley Plan

Attachment Type

Local/Regional Economic Development Strategy

File Name

livable roanoke valley plan.pdf

Description

Highlighted excerpt of the Regional Pedestrian Vision Plan

Attachment Type

Local/Regional Economic Development Strategy

File Name

regional pedestrian vision plan.pdf

Description

Highlighted excerpt of the Roanoke Valley Regional Comprehensive Economic Development Strategy

Attachment Type

Local/Regional Economic Development Strategy

File Name

roanoke valley regional comprehensive economic development strategy.pdf

Description

Lila Drive Design Plan Typical Section and Rendering

Attachment Type

Project Sketch

File Name

lila drive plan rendering 9-25-15.pdf

Description

Constrained Long Range Transportation Plan 2035 Excerpts

Attachment Type

Planning Study/Safety Study

File Name

rvampo-clrtp-2035-hb2 roco edits lila 9-22-15.pdf

Description

Virginia Outdoors Plan (2013) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

2013 virginia outdoors plan roanoke excerpts tinker 9-22-15.pdf

Description

Hollins Area Plan (2008) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

hap excerpts 9-22-15.pdf

Description

2007 Update to the Roanoke Valley Conceptual Greenway Plan Excerpts

Attachment Type

Planning Study/Safety Study

File Name

2007 update to the roanoke valley greenway plan roco excerpts tinker carvin 9-22-15.pdf

Description

Regional Pedestrian Vision Plan (2015) Excerpts

Attachment Type

Planning Study/Safety Study

File Name

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

Description

Bikeway Plan for the RVAMPO 2012 Update Excerpts

Attachment Type

Planning Study/Safety Study

File Name

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

Description

Plantation Road Corridor Study (2012) Excerpts

Attachment Type

Access Management Plan or Zoning Overlay

File Name

plantation road corridor study excerpts.pdf

Description

Lila Drive Intersection Sketch

Attachment Type

Project Sketch

File Name

lila intersection sketch wra.pdf

Description

Traffic Signal Warrants Analysis for Plantation Road at Lila Drive (2014)

Attachment Type

Planning Study/Safety Study

File Name

plantation-lila_signal_warrant_analysis_08252014.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

Plantation Road Project Overview Map

Attachment Type

Project Sketch

File Name

plantation project overview 9-28-15.pdf

Description

Plantation Road Project and Tinker Creek Greenway Map

Attachment Type

Project Sketch

File Name

plantation greenway conn to plantation 9-28-15.pdf

Description

Virginia Surface Transportation Plan 2035 Update Excerpts

Attachment Type

Planning Study/Safety Study

File Name

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

Description

Heritage Village Development Application

Attachment Type

Site Development Plan

File Name

heritage village application.pdf

Description

Heritage Village Site Plan

Attachment Type

Site Development Plan

File Name

heritage village.pdf

Description

Heritage Village Master Plan

Attachment Type

Site Development Plan

File Name

heritage village master plan.pdf

Description

Lila Drive / Route 115 Intersection Safety Improvements PCES

Attachment Type

Detailed Cost Estimate

File Name

0080_02 - plantation rd-lila dr - pces.xlsx

Description

Lila Drive / Route 115 Intersection Safety Improvements Detailed Cost Estimate

Attachment Type

Detailed Cost Estimate

File Name

0080_02 - plantation rd-lila dr - detailed estimate.xls



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