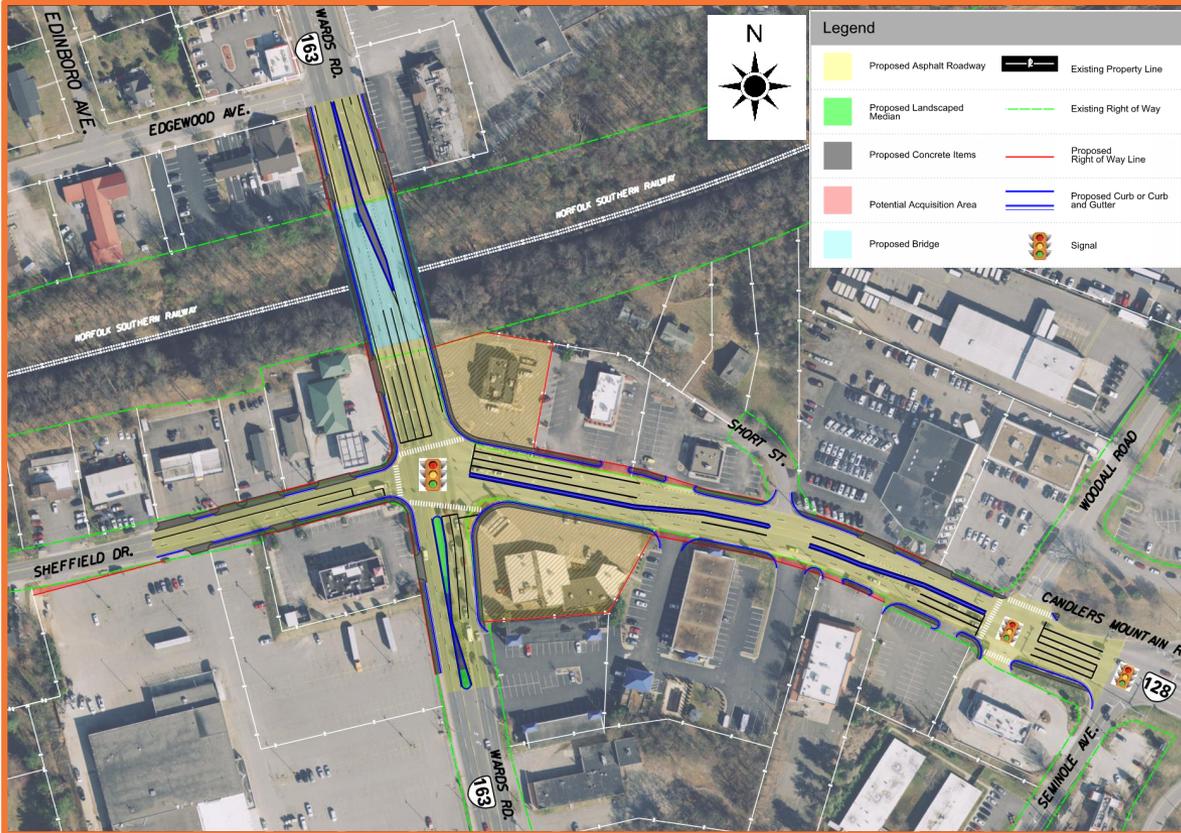


PROJECT 1

WARDS ROAD INTERSECTION AND ACCESS MANAGEMENT IMPROVEMENTS

Project Conceptual Design Layout



Project Description

This project provides additional operational capacity at the Wards Road intersection and improves access management on Candler Mountain Road.

- Construct sidewalks along both sides of Wards Road and Candler Mountain Road

Planning Level Cost Estimate

Total Cost = \$22,410,000

Note: Cost estimates reported in FY20 dollars.

Traffic Operations Benefits

	AM	PM
Candler Mountain Road at Wards Road		
Δ Intersection Delay	-21.1 sec/veh	-61.4 sec/veh

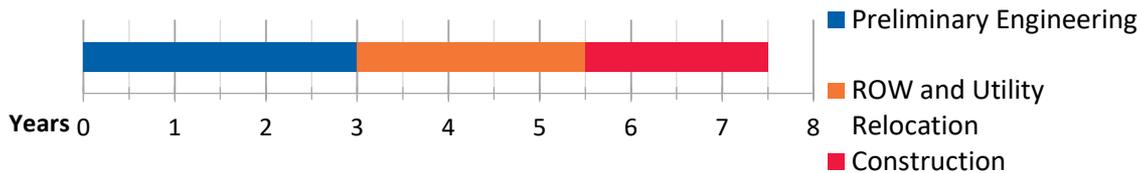
Safety Benefits

Improvement	Reduction in Crashes
Replace two-way left-turn lane (TWLTL) with raised median	23%
Install left-turn lane	25%
Install right-turn lane	4%

Note

This study has yet to receive funding from any source.

Project Schedule



PROJECT 2

LYNCHBURG EXPRESSWAY RAMPS AND RAMP TERMINAL IMPROVEMENTS

Project Conceptual Design Layout



Project Description

This project improves safety at the Lynchburg Expressway interchange by lengthening acceleration/deceleration lanes and reducing the number of weaving areas.

- Traffic is to be maintained on Candler Mountain Road at all times during construction.
- The City of Lynchburg and VDOT are exploring ways to fund interchange improvements. The City and VDOT concur on the conceptual design concept and preferred MOT concept.

Planning Level Cost Estimate

Total Cost = \$37,400,000

Note: Cost estimates reported in FY20 dollars.

Traffic Operations Benefits

	AM	PM
Candler Mountain Road at Southbound Lynchburg Expressway Ramp		
Δ Intersection Delay	-6.8 sec/veh	-8.6 sec/veh

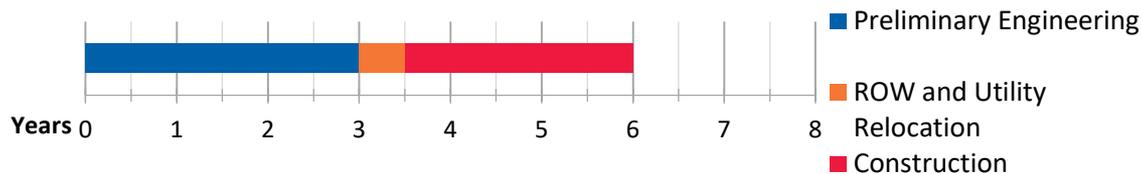
Safety Benefits

Improvement	Reduction in Crashes
Install acceleration/deceleration lanes	75%

Note

This study has yet to receive funding from any source.

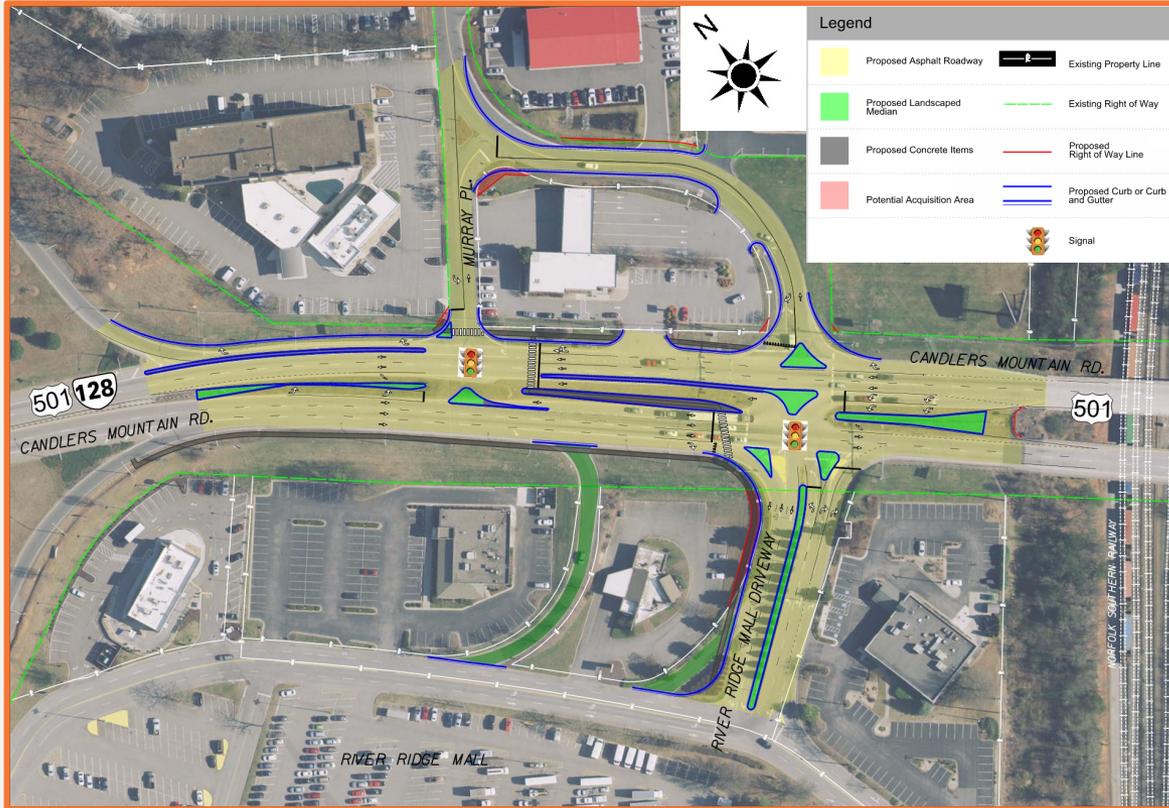
Project Schedule



PROJECT 3

MURRAY PLACE AND RIVER RIDGE MALL CONTINUOUS GREEN-T INTERSECTION IMPROVEMENTS

Project Conceptual Design Layout



Project Description

This project improves operations on Candler's Mountain Road in the vicinity of the Murray Place and River Ridge Mall intersections by eliminating signal phases and providing additional green time for vehicles.

- Construct a signalized continuous Green-T at Murray Place (west) intersection with a free-flow eastbound through movement
- Construct pedestrian improvements along Candler's Mountain Road and River Ridge Mall driveway.

Planning Level Cost Estimate

Total Cost = \$6,880,000

Note: Cost estimates reported in FY20 dollars.

Traffic Operations Benefits

	AM	PM
Candler's Mountain Road at Murray Place/River Ridge Mall		
Δ Intersection Delay	-48.4 sec/veh	-93.7 sec/veh

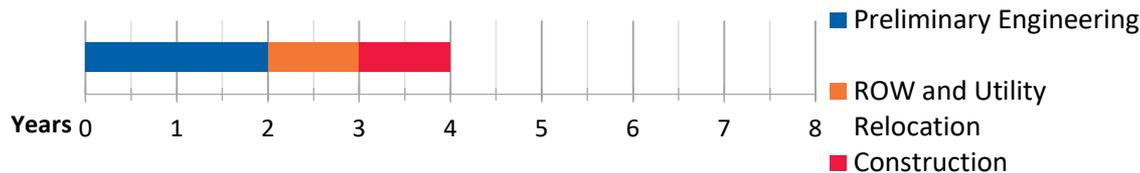
Safety Benefits

Improvement	Reduction in Crashes
Convert four-leg intersection into two three-leg intersections	57%
Install left-turn lane	25%

Note

This study has yet to receive funding from any source.

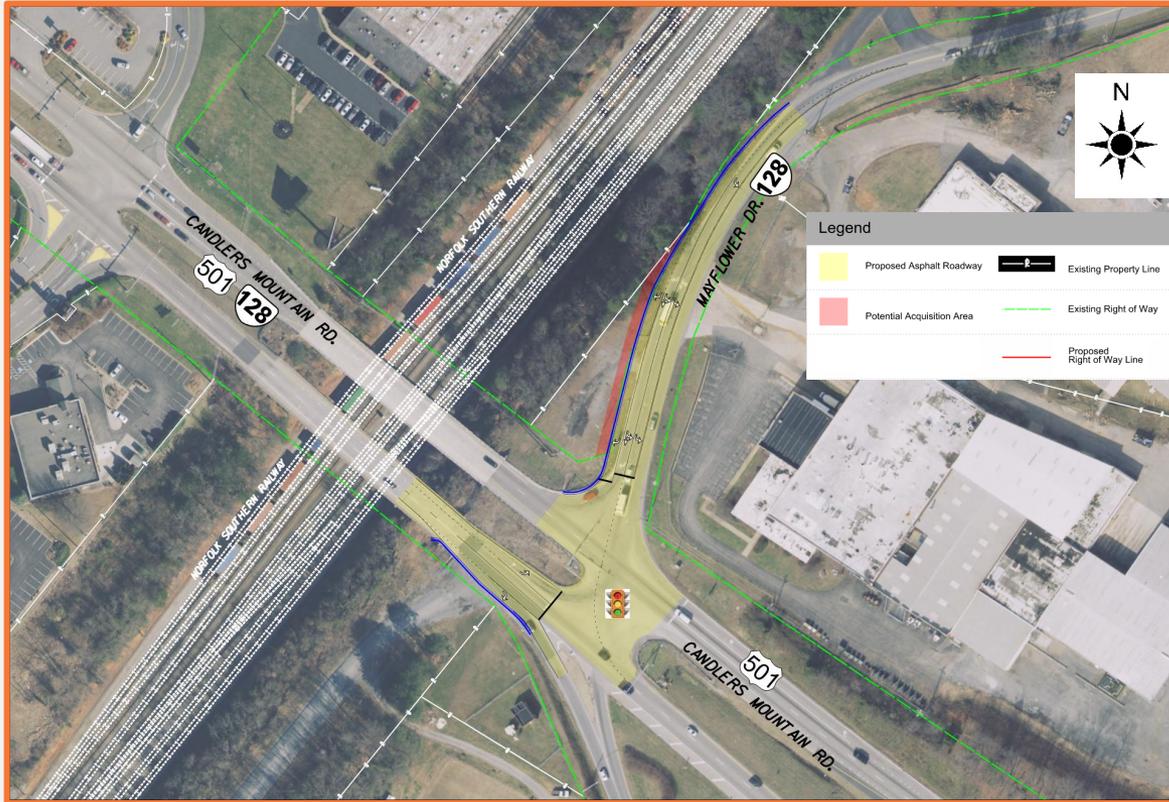
Project Schedule



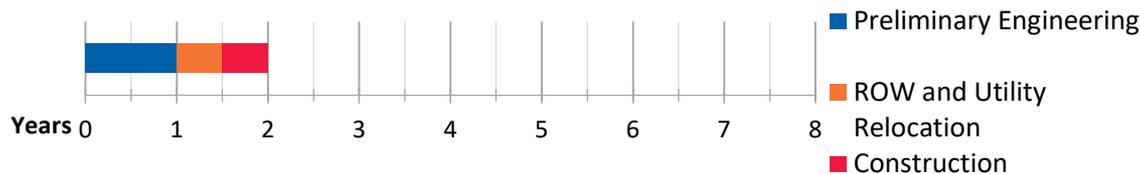
PROJECT 4

MAYFLOWER DRIVE INTERSECTION IMPROVEMENTS

Project Conceptual Design Layout



Project Schedule



Project Description

This project provides additional capacity at the Mayflower Drive intersection.

- Construct Mayflower Drive southbound left-turn lane (in addition to the existing southbound left-through lane)
- Extend eastbound right-turn lane back to the railroad bridge

Planning Level Cost Estimate

Total Cost = \$2,640,000

Note: Cost estimates reported in FY20 dollars.

Traffic Operations Benefits

	AM	PM
Candler's Mountain Road at Mayflower Drive		
Δ Intersection Delay	-53.5 sec/veh	-100.0 sec/veh

Safety Benefits

Improvement	Reduction in Crashes
Install left-turn lane	25%
Increase length of right-turn lane	15%

Note

This study has yet to receive funding from any source.

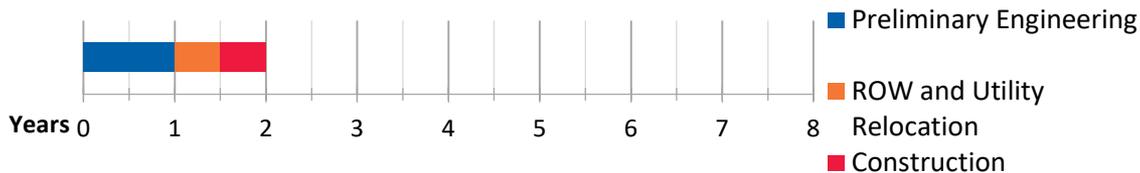
PROJECT 4A

MAYFLOWER DRIVE INTERSECTION IMPROVEMENTS

Project Conceptual Design Layout



Project Schedule



Project Description

This project provides additional capacity at the Mayflower Drive intersection.

- Construct Mayflower Drive southbound left-turn lane (in addition to the existing southbound left-through lane)
- Extend eastbound right-turn lane back to the railroad bridge

Planning Level Cost Estimate

Total Cost = \$2,640,000

Note: Cost estimates reported in FY20 dollars.

Traffic Operations Benefits

	AM	PM
Candler's Mountain Road at Mayflower Drive		
Δ Intersection Delay	-53.5 sec/veh	-100.0 sec/veh

Safety Benefits

Improvement	Reduction in Crashes
Install left-turn lane	25%
Increase length of right-turn lane	15%

Note

This study has yet to receive funding from any source.