



# Redland Rd from Crabbs Branch Way - Baederwood La (P500010)

Category	Transportation	Date Last Modified	11/29/17
SubCategory	Traffic Improvements	Administering Agency	Transportation
Planning Area	Gaithersburg and Vicinity	Status	Final Design Stage

## EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
Planning, Design and Supervision	1,804	1,693	111	-	-	-	-	-	-	-	-
Land	440	440	-	-	-	-	-	-	-	-	-
Site Improvements and Utilities	210	205	5	-	-	-	-	-	-	-	-
Construction	3,685	3,659	26	-	-	-	-	-	-	-	-
Other	4	4	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>6,143</b>	<b>6,001</b>	<b>142</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

## FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY17	Est FY18	Total 6 Years	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Beyond 6 Years
G.O. Bonds	5,369	5,369	-	-	-	-	-	-	-	-	-
Intergovernmental	168	158	10	-	-	-	-	-	-	-	-
Development Approval Payment	606	474	132	-	-	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>6,143</b>	<b>6,001</b>	<b>142</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

## APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 19 Request	-	Year First Appropriation	
Appropriation FY 20 Request	-	Last FY's Cost Estimate	6,143
Cumulative Appropriation	6,143		
Expenditure / Encumbrances	6,103		
Unencumbered Balance	40		

## Project Description

This project provides for reconstruction of a segment of Redland Road including the intersections with Crabbs Branch Way and Needwood Road for congestion mitigation. Anticipated improvements include: widening a portion of Redland Road from Crabbs Branch Way to Baederwood Lane, construction of additional turning lanes, installation of traffic improvement devices, storm drain modifications as needed, and an eight feet wide mixed use bike path/sidewalk (Class I). The bike path will be located within the project limits on the northeast side of Redland Road and the south side of Needwood Road. The concrete sidewalk on the north side of Needwood Road will be extended 430 feet to Deer Lake Road. This includes curb, gutter, and storm drainage

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improvements. Land acquisition is required. A shared-use bike path will be added to the south side of Needwood Road from Redland Road to Deer Lake Road. The path will be 1,350 linear feet long, eight feet wide, and constructed with asphalt. Land acquisition is also required for the bike path.

## Capacity

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A.M. level of service (LOS) of the Crabbs Branch Way intersection will be improved from D to C, and P.M. LOS from F to B. A.M. LOS of the Needwood Road intersection will be improved from F to C and P.M. LOS from E to B.

## Estimated Schedule

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Design of the shared use bike path on the south side of Needwood Road was completed in the fall of 2013. Construction of the bike path is estimated to be completed in the spring of 2015. Delay in project schedule by one year due to issues with existing utilities and traffic signal.

## Project Justification

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Studies conducted by the Department of Transportation (DOT) Traffic Engineering and Operations Division and comprehensive consultant studies indicate significant congestion in this roadway segment. In addition to the improved level of service, the project will reduce the operational problems at these intersections. The addition of the bike path will provide access to the Shady Grove Metro Station.

## Fiscal Note

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Development Approval Payment collected through FY05 is included in this project. Intergovernmental revenue is comprised of the Department of Environmental Protection contribution of up to \$150,000 for dam repair and \$25,000 from the Washington Suburban Sanitary Commission for water and sewer adjustments. Policy Area Mobility Review (PAMR) funds are available in FY12 (shown in funding schedule under Development Approval Payment (DAP)).

## Disclosures

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A pedestrian impact analysis has been completed for this project.

## Coordination

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Intersection and Spot Improvements Project, Department of Environmental Protection, Department of Permitting Services, Maryland-National Capital Park and Planning Commission, Potomac Electric Power Company, Verizon, Comcast, Washington Suburban Sanitary Commission, Maryland Department of the Environment