



# Dennis Ave Bridge M-0194 Replacement (P501701)

Category	Transportation	Date Last Modified	01/14/22
SubCategory	Bridges	Administering Agency	Transportation
Planning Area	Kensington-Wheaton	Status	Final Design Stage

## EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	1,435	189	345	901	510	391	-	-	-	-	-
Land	100	-	100	-	-	-	-	-	-	-	-
Site Improvements and Utilities	290	-	-	290	15	275	-	-	-	-	-
Construction	6,025	-	-	6,025	3,980	2,045	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>7,850</b>	<b>189</b>	<b>445</b>	<b>7,216</b>	<b>4,505</b>	<b>2,711</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

## FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Federal Aid	4,735	-	-	4,735	2,917	1,818	-	-	-	-	-
G.O. Bonds	2,835	189	445	2,201	1,308	893	-	-	-	-	-
Intergovernmental	280	-	-	280	280	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>7,850</b>	<b>189</b>	<b>445</b>	<b>7,216</b>	<b>4,505</b>	<b>2,711</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

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

Appropriation FY 23 Request	2,240	Year First Appropriation	FY22
Appropriation FY 24 Request	-	Last FY's Cost Estimate	5,610
Cumulative Appropriation	5,610		
Expenditure / Encumbrances	289		
Unencumbered Balance	5,321		

## PROJECT DESCRIPTION

This project provides for the replacement of the existing Dennis Avenue Bridge M-0194 over a tributary to Sligo Creek. The existing bridge, built in 1961, is a single 30-foot span structure composed of pre-stressed concrete voided slab beams carrying a 24-foot roadway, two six-foot shoulders, and two 4'-8" sidewalks. The proposed replacement bridge will be a 80-foot overall span three-cell precast concrete arch culvert carrying a 22-foot roadway, two five-foot bicycle compatible shoulders, two two-foot striped buffers, a 13-foot shared-use path on the north side and a seven-foot sidewalk on the south side, for a total clear bridge width of 56 feet. The project includes approach roadway work at each end of the bridge as necessary to tie into the existing roadway and sidewalks. The bridge will be closed to traffic during construction. Accelerated bridge construction techniques will be utilized to minimize the disruption to the traveling public and local community.

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## LOCATION

The project is located on Dennis Avenue approximately 1,800 feet east of the intersection of Georgia Avenue and Dennis Avenue.

## CAPACITY

The roadway Average Daily Traffic (ADT) is approximately 14,000 and the roadway capacity will not change as a result of this project.

## ESTIMATED SCHEDULE

The design of the project is expected to be completed in the spring of 2022. The land acquisition is projected in FY22. The construction is scheduled to begin in the spring of 2023 and be completed in the fall of 2023. The bridge will be closed to traffic during the school summer break of 2023.

## COST CHANGE

Cost increase due to updated construction costs reflecting final design and estimates of utility relocation costs that were not previously known.

## PROJECT JUSTIFICATION

The proposed replacement work will mitigate the frequent flooding of five residential properties and local streets upstream of the bridge; mitigate occasional roadway flooding on Dennis Avenue that causes significant traffic delays; and eliminate annual maintenance repairs required for this deteriorating structure. The existing bridge is rapidly deteriorating and is nearing the end of its estimated service life.

## OTHER

The December 2018 Technical Update to the Master Plan of Highways and Transitways designates Dennis Avenue as Minor Arterial Road (MA-17) with a minimum right-of-way of 80 feet. The December 2018 Montgomery County Bicycle Master Plan recommends a sidepath (shared use path) on the north side. Streetlights, crosswalks, sidewalk ramps, bikeways, and other pertinent issues are being considered in the design of the project to ensure pedestrian safety. The funding shown as "Intergovernmental" is from WSSC for its share of the project cost.

## DISCLOSURES

A pedestrian impact analysis has been completed for this project.

## COORDINATION

Federal Highway Administration - Federal Aid Bridge Replacement/Rehabilitation Program, Maryland State Highway Administration, Maryland Department of the Environment, Montgomery County Department of Environmental Protection, Montgomery County Department of Permitting Services, Montgomery County Public School, Montgomery County Police Department, Montgomery County Fire and Rescue Services, Montgomery County Ride On Bus, Maryland-National Capital Park and Planning Commission, Utilities, and Wheaton Regional Dam Flooding Mitigation (CIP Project #801710).