



# Storm Drain Culvert Replacement

## (P501470)

Category	Conservation of Natural Resources	Date Last Modified	03/30/22
SubCategory	Storm Drains	Administering Agency	Transportation
Planning Area	Countywide	Status	Ongoing

### 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	3,596	1,303	463	1,830	555	255	255	255	255	255	-
Construction	23,102	10,155	1,277	11,670	4,445	1,445	1,445	1,445	1,445	1,445	-
Other	2	2	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>26,700</b>	<b>11,460</b>	<b>1,740</b>	<b>13,500</b>	<b>5,000</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</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
Current Revenue: Water Quality Protection	9,000	4,000	-	5,000	5,000	-	-	-	-	-	-
G.O. Bonds	1,500	1,500	-	-	-	-	-	-	-	-	-
Long-Term Financing	3,600	3,560	40	-	-	-	-	-	-	-	-
Water Quality Protection Bonds	12,600	2,400	1,700	8,500	-	1,700	1,700	1,700	1,700	1,700	-
<b>TOTAL FUNDING SOURCES</b>	<b>26,700</b>	<b>11,460</b>	<b>1,740</b>	<b>13,500</b>	<b>5,000</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>1,700</b>	<b>-</b>

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

Appropriation FY 23 Request	5,000	Year First Appropriation	FY14
Appropriation FY 24 Request	1,700	Last FY's Cost Estimate	20,000
Cumulative Appropriation	13,200		
Expenditure / Encumbrances	11,476		
Unencumbered Balance	1,724		

## PROJECT DESCRIPTION

This program will provide for the replacement of failed storm drain pipes and culverts. The County's storm drain infrastructure is aging and many of the metal pipe culverts installed from 1960 through the 1990's have reached the end of their service life. An asset inventory with condition assessments has been developed to better forecast future replacement needs. Going forward, funding will be programmed for both systematic and emergency replacement of these pipes and culverts. Program scope includes: storm water pipe and culvert replacement of both metal and concrete less than six (6) feet in roadway longitudinal length; headwalls, end sections, replacement, or extension of culverts to assure positive flow of stormwater and channeling of stormwater into existing ditch lines or structures. Repairs also include roadside pipe and culvert end treatment safety improvements to eliminate safety hazards. This project will not make major changes to the location or size of existing storm drainage facilities. Structures greater than six-foot-roadway-

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longitudinal length are repaired under the Bridge Renovation Program, (CIP No. 509753).

## COST CHANGE

Scope increase in FY23 includes four new subprojects for the following culverts, all of which have recently been discovered to be severely deteriorating: Crabbs Branch storm drain, Wightman Road culvert, Centerway Road culvert, and Tucker Lane culvert. Funding for FY27 and FY28 has also been added to this level of effort project.

## PROJECT JUSTIFICATION

This program will address emergency pipe replacements of aging metal and concrete pipes that have reached the end-of-their-service life. The result of these pipe failures has been deep depressions, sinkholes, sediment build-up, open pipe joints, and metal pipe inverts to an unacceptable levels. Existing storm drain conditions are extremely poor. Repairs are needed to improve safety and reduce the potential for hazards and associated public inconvenience. Failure of a storm drain pipe will precipitate emergency repairs at much higher prices. Furthermore, this program provided funding towards developing an asset inventory of the storm drain system including pipe and culvert conditions that helps forecast future funding requirements.

## FISCAL NOTE

In FY23-FY28, long-term financing based on the Maryland Water Quality Revolving Loan Fund (WQRLF) was replaced with Water Quality Protection Bonds due to limited eligibility of projects within this CIP under the revolving fund. FY22 amendment to reduce Long-Term Financing and replace it with Water Quality Protection Bonds. FY23 funding switch between WQPC Bonds and Current Revenue from the WQPC fund.

## DISCLOSURES

Expenditures will continue indefinitely.

## COORDINATION

Washington Suburban Sanitary Commission, Washington Gas Company, Montgomery County Department of Permitting Services, Pepco, Cable TV, Verizon, Montgomery County Public Schools, Regional Service Centers, Community Association's, Commission on People With Disabilities, Maryland Department of Environment, Montgomery County Department of Environmental Protection, and United States Army Corps of Engineers.