



# Storm Drain Culvert Replacement (P501470)

Category	Conservation of Natural Resources	Date Last Modified	01/05/18
SubCategory	Storm Drains	Administering Agency	Transportation
Planning Area	Countywide	Status	Ongoing

## 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	2,265	793	392	1,080	180	180	180	180	180	180	-
Construction	12,833	4,902	1,811	6,120	1,020	1,020	1,020	1,020	1,020	1,020	-
Other	2	2	-	-	-	-	-	-	-	-	-
<b>TOTAL EXPENDITURES</b>	<b>15,100</b>	<b>5,697</b>	<b>2,203</b>	<b>7,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</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
Long-Term Financing	7,200	-	-	7,200	1,200	1,200	1,200	1,200	1,200	1,200	-
Current Revenue: Water Quality Protection	4,000	2,681	1,319	-	-	-	-	-	-	-	-
Water Quality Protection Bonds	2,400	1,516	884	-	-	-	-	-	-	-	-
G.O. Bonds	1,500	1,500	-	-	-	-	-	-	-	-	-
<b>TOTAL FUNDING SOURCES</b>	<b>15,100</b>	<b>5,697</b>	<b>2,203</b>	<b>7,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>1,200</b>	<b>-</b>

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

Appropriation FY 19 Request	1,200	Year First Appropriation	FY14
Appropriation FY 20 Request	1,200	Last FY's Cost Estimate	12,700
Cumulative Appropriation	7,900		
Expenditure / Encumbrances	6,976		
Unencumbered Balance	924		

## 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 feet roadway

---

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

## COST CHANGE

Increase due to the addition of FY23-24 to this on-going 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 will provide funding towards developing an asset inventory of the storm drain system including pipe and culvert conditions to help forecast future funding requirements.

## FISCAL NOTE

In FY19, going forward, Water Quality Protection Bonds have been replaced with Long-Term Financing based on the Maryland Water Quality Revolving Loan Fund (WQRLF) to finance water quality improvement projects with low interest loans which are less costly than bond sales.

## 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, United States Army Corps of Engineers.