

# Bridge Preservation Program (P500313)

Category                    Transportation  
 Sub Category            Bridges  
 Administering Agency   Transportation (AAGE30)  
 Planning Area            Countywide

Date Last Modified            11/17/14  
 Required Adequate Public Facility    No  
 Relocation Impact            None  
 Status                            Ongoing

	Total	Thru FY15	Est FY16	Total 6 Years	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Beyond 6 Yrs
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### EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	2,649	1,618	173	858	143	143	143	143	143	143	0
Land	22	8	2	12	2	2	2	2	2	2	0
Site Improvements and Utilities	2	2	0	0	0	0	0	0	0	0	0
Construction	8,160	4,223	1,723	2,214	369	369	369	369	369	369	0
Other	2	2	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>10,835</b>	<b>5,853</b>	<b>1,898</b>	<b>3,084</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>0</b>

### FUNDING SCHEDULE (\$000s)

Federal Aid	366	366	0	0	0	0	0	0	0	0	0
G.O. Bonds	10,429	5,487	1,858	3,084	514	514	514	514	514	514	0
Intergovernmental	40	0	40	0	0	0	0	0	0	0	0
<b>Total</b>	<b>10,835</b>	<b>5,853</b>	<b>1,898</b>	<b>3,084</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>514</b>	<b>0</b>

### APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 17	1,028
Appropriation Request Est.	FY 18	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		7,751
Expenditure / Encumbrances		6,119
Unencumbered Balance		1,632

Date First Appropriation	FY 03	
First Cost Estimate		
Current Scope	FY 17	10,835
Last FY's Cost Estimate		9,807
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

## Description

This project includes actions or strategies that prevent, delay or reduce deterioration of bridge elements, restore the function of existing bridges, keep bridges in good condition and extend their useful life. Preservation actions may be preventive or condition driven. This project provides for removal of corrosion and installation of protective coatings on existing County steel bridges that have been identified as needing surface recoating through the Biennial Bridge Inspection Program. In addition, this project provides for the repair or replacement of leaking deck joints to minimize the deterioration and corrosion of bridge superstructure and substructure elements beneath the joints as identified through the Biennial Bridge Inspection Program. Bridge preservation field operations include the removal of the existing coating system which may contain hazardous materials; containment of blast cleaning and waste paint particles; disposal of the hazardous materials at a pre-approved disposal site, as required by Maryland and Federal environmental regulations; installation of protective coating system; joint repair or replacement, and inspection to ensure compliance with environmental and contract requirements.

## Cost Change

Increase due to addition of FY21-22 to this on-going level of effort project.

## Justification

The benefits of this program will include extending the useful service life of existing steel bridges, prevention of long-term structural deficiencies, decreases in vehicle load restrictions, and reduced potential road closures and public inconvenience. The long-term goal of this program will be to protect existing bridges and keep them in good condition to reduce bridge renovation/replacement costs. The expected life cycle of a coating system is 15 years. Candidate bridges for each year are identified based on the bridge coating evaluations under the Biennial Bridge Inspection Program and the available funds under the bridge preservation program. The County currently has 115 Highway and 29 Pedestrian steel girder, beam and truss structures in its bridge inventory. These numbers will change when steel highway or pedestrian bridges are added into or dropped from the County's bridge inventory. The degree of specialized work required to restore the protective coatings to in-service bridges is beyond the scope of routine operations. Proper protective coating systems are an essential component of bridge maintenance to prevent long-term structural steel deterioration. The County currently has 50 bridges with deck joints in its inventory. Damage both to the joint and to the portion of the bridge beneath the joint that is exposed to debris, water and deicing salts must be addressed and prevented to prolong the life of the bridge. Many defects identified through the Biennial Bridge Inspection Program are the direct result of bridges not being properly protected to withstand chemical and environmental elements. These defects include frozen and deteriorated steel bearings, corroded structural steel, and steel beam section loss.

## Other

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Sixty-four bridges have been repainted since the first contract in FY03. The "Intergovernmental" revenue shown in the funding schedule is from Howard County for its share of painting costs for two bridges that Montgomery County and Howard County share.

### **Disclosures**

Expenditures will continue indefinitely.

### **Coordination**

Maryland Department of Natural Resources, Maryland State Highway Administration, Occupational Safety and Health Administration, Maryland-National Capital Park and Planning Commission, Utilities, CSX Transportation, Washington Metropolitan Area Transit Authority, Montgomery County Department of Permitting Services, Bridge Renovation Program