

# **Public Works**

## Overview of Public Works CIP

The Public Works CIP includes two sections: Roads and Bridges.

Approximately \$102.5M is included in the FY 22 – 27 CIP to maintain and rehabilitate 900 miles of roads throughout the County. Approximately thirty-five percent of the County's road network is considered mainline or arterial roads. These roads carry a higher traffic volume. Sixty-five percent are lower volume roadways, including neighborhood roads. Typical repair strategies include sealing, overlay, mill and overlay, full-depth reclamation, and reconstruction.

Included is \$0.1M to support State road projects. Contributing to State projects may expedite the planning process for State roads in Carroll County.

Improvements for gravel roads are included in FY 22 for \$4.3M.

Ongoing funding is included for inspection of storm drains. Video inspections will assess the condition of the storm drain system and rehabilitation funding is included for pipe lining and replacement of storm drains and small drainage structures.

Funding is included for the replacement or rehabilitation of six bridge structures.

Two road extensions are included in the FY 22 – 27 CIP: Georgetown Boulevard and Ridenour Way. Georgetown Boulevard will be extended to Progress Way and Ridenour Way will connect to Old Liberty Road.

For additional information on these or other Public Works projects, please refer to the individual project pages.

# Roads

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2022 TO 2027

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance To Complete	Total Project Cost
<b>ROADS</b>									
Brynwood Hills Drainage	\$650,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$650,000
Georgetown Boulevard Extension	0	0	529,000	1,823,500	0	0	0	0	2,352,500
Gravel Road Improvements	4,336,000	0	0	0	0	0	0	0	4,336,000
Highway Safety Improvements	33,000	35,000	37,000	38,000	40,000	42,000	0	0	225,000
Pavement Management Program	14,509,000	14,815,000	15,525,000	15,878,000	16,673,000	17,510,000	0	0	94,910,000
Pavement Preservation	1,180,000	1,215,000	1,255,000	1,260,000	1,310,000	1,335,000	0	0	7,555,000
Ramp and Sidewalk Upgrades	85,000	88,000	92,000	96,000	103,000	109,000	0	0	573,000
Ridenour Way Extension	290,000	1,160,000	0	0	0	0	0	0	1,450,000
Small Drainage Structures	253,000	283,000	313,000	343,500	360,000	378,000	0	0	1,930,500
State Road Projects	100,000	0	0	0	0	0	834,990	0	934,990
Storm Drain Rehabilitation	253,000	283,000	313,000	343,500	360,000	378,000	0	0	1,930,500
Storm Drain Video Inspection	146,000	153,000	161,000	169,000	177,000	186,000	0	0	992,000
<b>ROADS TOTAL</b>	<b>\$21,835,000</b>	<b>\$18,032,000</b>	<b>\$18,225,000</b>	<b>\$19,951,500</b>	<b>\$19,023,000</b>	<b>\$19,938,000</b>	<b>\$834,990</b>	<b>\$0</b>	<b>\$117,839,490</b>
<b>SOURCES OF FUNDING:</b>									
Transfer from General Fund	\$5,949,000	\$4,682,000	\$690,000	\$3,042,500	\$1,277,000	\$1,311,000	\$834,990	\$0	\$17,786,490
Bonds	10,871,000	11,314,000	15,379,000	15,685,000	16,520,000	17,399,000	0	0	87,168,000
Reallocated Bonds	3,480,000	0	0	0	0	0	0	0	3,480,000
State Highway Administration	176,000	176,000	176,000	176,000	176,000	176,000	0	0	1,056,000
Highway User Revenue	1,359,000	1,860,000	1,980,000	1,048,000	1,050,000	1,052,000	0	0	8,349,000
<b>ROADS TOTAL</b>	<b>\$21,835,000</b>	<b>\$18,032,000</b>	<b>\$18,225,000</b>	<b>\$19,951,500</b>	<b>\$19,023,000</b>	<b>\$19,938,000</b>	<b>\$834,990</b>	<b>\$0</b>	<b>\$117,839,490</b>

# Brynwood Hills Drainage

Commissioner District: 5

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8888

This project provides funding to replace or rehabilitate the existing storm drain system in the Brynwood Hills subdivision, located in Eldersburg.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	650,000								650,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>650,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>650,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Reallocated Bonds	650,000								650,000
Bond Premium									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Georgetown Boulevard Extension

Commissioner District: 5

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8023

Functional Classification: Urban Major Collector (planned)

Average Daily Traffic: TBD

Total Planned Project Limits: Londontown Blvd. north to Progress Way (total length of approximately 2,200 feet, of which approximately 1,500 feet will be provided by developers)

This project provides planned funding to extend Georgetown Boulevard from the current terminus at Londontown Boulevard to Progress Way. The remaining portion of this extension will be provided by the developer of the property located along, and east of, the planned roadway alignment.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			529,000						529,000
Land Acquisition									0
Site Work									0
Construction				1,823,500					1,823,500
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>529,000</b>	<b>1,823,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,352,500</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund			529,000	1,823,500					2,352,500
Reallocated GF Transfer									0
Bonds									0
Developer Contribution									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Gravel Road Improvements

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8889

This project provides funding for improvements to gravel roads.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	4,336,000								4,336,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>4,336,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,336,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	4,336,000								4,336,000
Reallocated GF Transfer									0
Bonds									0
Reallocated Bonds									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			

# Highway Safety Improvements

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

9674

This project provides ongoing funding to address roadway segments and intersections with a history of frequent or severe crashes, and those with a significant potential for crashes. Possible improvements include minor changes in intersection geometry, turn lanes, signing additions or upgrades, traffic calming measures and pavement marking upgrades.

Recently completed improvements includes Sunshine Way traffic calming, Bartholow Road pedestrian crossing, Compton Lane intersection evaluation.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	33,000	35,000	37,000	38,000	40,000	42,000			225,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>33,000</b>	<b>35,000</b>	<b>37,000</b>	<b>38,000</b>	<b>40,000</b>	<b>42,000</b>	<b>0</b>	<b>0</b>	<b>225,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds									0
Highway User Revenue	33,000	35,000	37,000	38,000	40,000	42,000			225,000

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0



# Pavement Management Program

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8886

This project provides ongoing funding for the maintenance, repair, or rehabilitation of the County's 900 miles of paved roads. A pavement management software program is used to collect road condition information and to recommend the most cost-effective repair. Repair strategies include: patching, overlay, mill and overlay, full depth reclamation, and reconstruction. Drainage structures and traffic barriers will be inspected, repaired, replaced, or added where necessary, and sidewalk accessibility will also be evaluated and included if upgrades are due.

Maintaining a road network in satisfactory condition is one of the goals of the Department of Public Works. While addressing roads that are near failure is important, maintaining roads in fair and satisfactory condition is important as well. It is cost effective to address roads while the amount of repair is minimal and this balanced approach keeps the network in satisfactory condition.

One-time funding is provided in FY 22 and FY 23 to restore funding reduced during the FY 20 budget process.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	125,000	125,000	125,000	128,000	135,000	142,000			780,000
Land Acquisition									0
Site Work									0
Construction	13,473,000	13,747,000	14,300,000	15,000,000	15,750,000	16,540,000			88,810,000
Equipment/Furnishings									0
Other	911,000	943,000	1,100,000	750,000	788,000	828,000			5,320,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>14,509,000</b>	<b>14,815,000</b>	<b>15,525,000</b>	<b>15,878,000</b>	<b>16,673,000</b>	<b>17,510,000</b>	<b>0</b>	<b>0</b>	<b>94,910,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	1,223,000	3,522,000		800,000	800,000	800,000			7,145,000
Bonds	10,280,000	10,660,000	14,661,000	14,902,000	15,697,000	16,534,000			82,734,000
Reallocated Bonds	2,830,000								2,830,000
State Highway Administration	176,000	176,000	176,000	176,000	176,000	176,000			1,056,000
Highway User Revenue		457,000	688,000						1,145,000

<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			0
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# Pavement Preservation

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8887

This project provides ongoing funding to place a maintenance seal coat, such as microsurface, on paved roads. Pavement preservation is applied to roads still in good condition, before the onset of serious damage. Annual funding addresses approximately 30 - 40 miles.

The project list will be generated in the spring in preparation for the summer construction season.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	1,180,000	1,215,000	1,255,000	1,260,000	1,310,000	1,335,000			7,555,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>1,180,000</b>	<b>1,215,000</b>	<b>1,255,000</b>	<b>1,260,000</b>	<b>1,310,000</b>	<b>1,335,000</b>	<b>0</b>	<b>0</b>	<b>7,555,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund				250,000	300,000	325,000			875,000
Reallocated GF Transfer									0
Bonds									0
Highway User Revenue	1,180,000	1,215,000	1,255,000	1,010,000	1,010,000	1,010,000			6,680,000
<b>PROJECTED OPERATING IMPACTS</b>	0	0	0	0	0	0			

# Ramp and Sidewalk Upgrades

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8626

This project provides ongoing funding to upgrade or replace non-compliant ramps and sidewalks for ADA accessibility. Non-compliant ramps and sidewalks are also addressed through the Pavement Management Program. This project allows for the acceleration of the replacement and upgrade process.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work	8,500	8,500	9,000	9,000	9,500	10,000			54,500
Construction	69,000	72,000	75,000	79,000	85,000	90,000			470,000
Equipment/Furnishings									0
Other	7,500	7,500	8,000	8,000	8,500	9,000			48,500
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>85,000</b>	<b>88,000</b>	<b>92,000</b>	<b>96,000</b>	<b>103,000</b>	<b>109,000</b>	<b>0</b>	<b>0</b>	<b>573,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds	85,000	88,000	92,000	96,000	103,000	109,000			573,000
Reallocated Bonds									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Ridenour Way Extension

Commissioner District: 5

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8308

Functional Classification: Urban Local (planned)

Average Daily Traffic: TBD

Length: Approximately 1,000 feet

Limits: From terminus west of Fallon Road westerly to Old Liberty Road

This project provides funding to design and construct an extension to Ridenour Way. The new roadway will connect to Old Liberty Road.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	290,000								290,000
Land Acquisition									0
Site Work									0
Construction		1,160,000							1,160,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>290,000</b>	<b>1,160,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,450,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	290,000	1,160,000							1,450,000
Reallocated GF Transfer									0
Bonds									0
Reallocated Bonds									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Small Drainage Structures

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

9847

This project provides ongoing funding to rehabilitate or replace deteriorated drainage structures including culvert headwalls and ancillary drainage features.

The Department of Public Works continues to incorporate all pipe culverts and drainage structures into the Geographic Information Systems (GIS). Once the locations are identified and mapped, field condition assessments can be made to help determine the most-effective approach to replacing and repairing these structures.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	253,000	283,000	313,000	343,500	360,000	378,000			1,930,500
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>253,000</b>	<b>283,000</b>	<b>313,000</b>	<b>343,500</b>	<b>360,000</b>	<b>378,000</b>	<b>0</b>	<b>0</b>	<b>1,930,500</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds	253,000	283,000	313,000	343,500	360,000	378,000			1,930,500
Reallocated Bonds									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# State Road Projects

Stephanie R. Krome, Senior Management and Budget Analyst (410) 386-2082

8629

This project provides funding to support projects for State roads in Carroll County.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	100,000						834,990		<b>934,990</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>100,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>834,990</b>	<b>0</b>	<b>934,990</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	100,000						834,990		<b>934,990</b>
Reallocated GF Transfer									<b>0</b>
Bonds									<b>0</b>
Reallocated Bonds									<b>0</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Storm Drain Rehabilitation

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8627

This project provides ongoing funding to maintain the storm drain system through rehabilitation and replacement. The County maintains about 180 miles (or 950,000 feet) of storm drain infrastructure, primarily located in neighborhoods where curbing, inlets, and manholes exist. Many of these systems were constructed with corrugated metal pipe, which has a life span of 30 - 50 years.

From 2018 to 2020, over 6,500 linear feet of storm drain pipes were rehabilitated.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	253,000	283,000	313,000	343,500	360,000	378,000			1,930,500
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>253,000</b>	<b>283,000</b>	<b>313,000</b>	<b>343,500</b>	<b>360,000</b>	<b>378,000</b>	<b>0</b>	<b>0</b>	<b>1,930,500</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds	253,000	283,000	313,000	343,500	360,000	378,000			1,930,500
Reallocated Bonds									0
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Storm Drain Video Inspection

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8769

This project provides ongoing funding to gather video inspection data of existing storm drain pipes. Inspection data is also collected for roads repaired through the Pavement Management program. Video inspections will determine if repairs or replacements are needed, and funding is provided for infrastructure rehabilitation in Storm Drain Rehabilitation.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	146,000	153,000	161,000	169,000	177,000	186,000			<b>992,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>146,000</b>	<b>153,000</b>	<b>161,000</b>	<b>169,000</b>	<b>177,000</b>	<b>186,000</b>	<b>0</b>	<b>0</b>	<b>992,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund			161,000	169,000	177,000	186,000			<b>693,000</b>
Reallocated GF Transfer									<b>0</b>
Bonds									<b>0</b>
Highway User Revenue	146,000	153,000							<b>299,000</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			



# Bridges

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2022 TO 2027

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance To Complete	Total Project Cost
<b>BRIDGES</b>									
Bridge Inspection and Inventory	\$31,000	\$32,000	\$33,000	\$34,000	\$35,000	\$36,000	\$0	\$0	\$201,000
Bridge Maintenance and Structural Repair	78,000	82,000	85,000	89,000	94,000	99,000	0	0	527,000
Brown Road over Roaring Run	0	0	270,000	0	1,439,000	0	0	0	1,709,000
Cleaning and Painting of Bridge Structural Steel	234,000	246,000	258,000	271,000	284,000	298,000	0	0	1,591,000
Gaither Road over South Branch PatapSCO	2,096,850	0	0	0	0	0	275,000	0	2,371,850
Hawks Hill Road over Little Pipe Creek Tributary	255,000	0	510,000	0	0	0	0	0	765,000
McKinstry's Mill Road over Little Pipe Creek	0	0	250,000	0	0	1,746,000	0	0	1,996,000
Old Kays Mill Road over Beaver Run	0	0	270,000	0	2,296,000	0	0	0	2,566,000
PatapSCO Road Bridge Deck Replacement	0	0	0	0	170,000	424,000	0	0	594,000
<b>BRIDGES TOTAL</b>	<b>\$2,694,850</b>	<b>\$360,000</b>	<b>\$1,676,000</b>	<b>\$394,000</b>	<b>\$4,318,000</b>	<b>\$2,603,000</b>	<b>\$275,000</b>	<b>\$0</b>	<b>\$12,320,850</b>
<b>SOURCES OF FUNDING:</b>									
Transfer from General Fund	\$156,000	\$163,000	\$170,000	\$177,000	\$186,000	\$198,000	\$0	\$0	\$1,050,000
Bonds	666,700	0	668,000	0	917,000	570,000	59,000	0	2,880,700
Federal Highway/Bridge	1,872,150	197,000	838,000	217,000	3,215,000	1,835,000	216,000	0	8,390,150
<b>BRIDGES TOTAL</b>	<b>\$2,694,850</b>	<b>\$360,000</b>	<b>\$1,676,000</b>	<b>\$394,000</b>	<b>\$4,318,000</b>	<b>\$2,603,000</b>	<b>\$275,000</b>	<b>\$0</b>	<b>\$12,320,850</b>

# Bridge Inspection and Inventory

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

9684

This project provides ongoing funding for the inspection of 20 minor structures that do not qualify for use of Federal funds. Small structures are inspected every four years in the same manner as the 134 major County-maintained structures. Three bridges are inspected annually. This project includes hands-on field inspections of all 20 structures, as well as completion and submission of inspection reports, which summarize findings. Report recommendations are used to evaluate repairs and structure replacements.

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	31,000	32,000	33,000	34,000	35,000	36,000			<b>201,000</b>
Land Acquisition									<b>0</b>
Site Work									<b>0</b>
Construction									<b>0</b>
Equipment/Furnishings									<b>0</b>
Other									<b>0</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>31,000</b>	<b>32,000</b>	<b>33,000</b>	<b>34,000</b>	<b>35,000</b>	<b>36,000</b>	<b>0</b>	<b>0</b>	<b>201,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	31,000	32,000	33,000	34,000	35,000	36,000			<b>201,000</b>
Reallocated GF Transfer									<b>0</b>
Local Income Tax									<b>0</b>
Reallocated Local Income Tax									<b>0</b>
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			

# Bridge Maintenance and Structural Repair

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

9882

This project provides ongoing funding for preventative maintenance and small repairs to County-maintained bridges, including: bridge seal, deck joint replacements, structural steel repairs, concrete patching, sediment removal, stream channel stabilization, traffic barrier replacement, and approach roadway repairs. Several projects have been identified for the work types and are listed below.

Listed below are potential sites for a replacement bridge seal project:

CL 208 Baptist over Alloway Creek	CL 211 Bowers over Alloway Creek	CL 364 Adams Mill over Little Pipe Creek
CL 234 Hapes Mill over Big Pipe Creek	CL 262 Mayberry over Bear Branch	CL 353 Patapsco over W. Branch Patapsco River
CL 266 Flickinger over Big Pipe Creek	CL 271 Arters Mill over Big Pipe Creek	CL 311 Morgan over S. Branch Patapsco River
CL 272 Halter over Big Pipe Creek	CL 310 Woodbine over S. Branch Patapsco River	

Listed below are potential sites for a concrete patching project:

CL 217 Stone over Silver Run	CL 310 Woodbine over S. Branch Patapsco River
CL 311 Morgan over S. Branch Patapsco River	CL 332 Marriottsville over S. Branch Patapsco River
CL 353 Patapsco over W. Branch Patapsco River	CL 373 Coon Club over E. Branch Patapsco River

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	78,000	82,000	85,000	89,000	94,000	99,000			527,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>78,000</b>	<b>82,000</b>	<b>85,000</b>	<b>89,000</b>	<b>94,000</b>	<b>99,000</b>	<b>0</b>	<b>0</b>	<b>527,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	78,000	82,000	85,000	89,000	94,000	99,000			527,000
Reallocated GF Transfer									0
Local Income Tax									0
Reallocated Local Income Tax									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Brown Road over Roaring Run

Commissioner District: 2

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

Proj #

Functional Classification: Rural Local  
 Average Daily Traffic: 395  
 Bridge Number: CL 346



This project provides planned funding to replace the three cell corrugated steel pipe culverts, located in the central eastern area of Carroll County, with a new structure. The type of replacement structure will be determined based on an alternatives analysis. The structure is posted for weight limits.

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			270,000						270,000
Land Acquisition									0
Site Work					116,000				116,000
Construction					1,108,000				1,108,000
Equipment/Furnishings									0
Other					215,000				215,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>270,000</b>	<b>0</b>	<b>1,439,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,709,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds			54,000		355,800				409,800
Federal Highway/Bridge			216,000		1,083,200				1,299,200

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Cleaning and Painting of Bridge Structural Steel

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

9686

This project provides ongoing funding for cleaning and painting of bridge structural steel. Cleaning and painting slows deterioration and extends the useful life of steel structures. Funding is accumulated over several years to allow for completion of a larger project.

Listed below are potential sites for the next project:

- CL 207 Baptist Road over Alloway Creek
- CL 208 Baptist Road over Alloway Creek
- CL 211 Bowers Road over Alloway Creek
- CL 262 Mayberry Road over Bear Branch
- CL 272 Halter Road over Big Pipe Creek
- CL 364 Adams Mill Road over Little Pipe Creek
- CL 402 York Road No. 1 over S. Branch Gunpowder Falls

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	20,000	21,000	22,000	23,000	24,000	25,000			135,000
Land Acquisition									0
Site Work									0
Construction	214,000	225,000	236,000	248,000	260,000	273,000			1,456,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>234,000</b>	<b>246,000</b>	<b>258,000</b>	<b>271,000</b>	<b>284,000</b>	<b>298,000</b>	<b>0</b>	<b>0</b>	<b>1,591,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund	47,000	49,000	52,000	54,000	57,000	63,000			322,000
Reallocated GF Transfer									0
Bonds									0
Federal Highway/Bridge	187,000	197,000	206,000	217,000	227,000	235,000			1,269,000

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Gaither Road over South Branch Patapsco

Commissioner Districts: 4 and 5

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8722

Functional Classification: Minor Collector  
 Average Daily Traffic: 1,190  
 Bridge Number: CL 313



This project provides funding to replace the steel truss bridge, located in southern Carroll County on the Howard County border, with a new structure. The type of replacement structure will be determined based on an alternatives analysis.

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							275,000		275,000
Land Acquisition									0
Site Work	165,900								165,900
Construction	1,668,450								1,668,450
Equipment/Furnishings									0
Other	262,500								262,500
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>2,096,850</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>275,000</b>	<b>0</b>	<b>2,371,850</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Bonds	411,700						59,000		470,700
Reallocated Bonds									0
Federal Highway/Bridge	1,685,150						216,000		1,901,150

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Hawks Hill Road over Little Pipe Creek Tributary

Commissioner District: 4

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

8891

Functional Classification: Rural Local  
 Average Daily Traffic: 253  
 Bridge Number: CL 242



This project provides funding to replace the small bridge, located in western Carroll County near the Town of New Windsor. The existing structure is concrete encased steel beams on stone masonry abutments. The type of replacement structure will be determined based on an alternatives analysis. The structure width and waterway opening will be evaluated as part of the analysis.

*This project does not qualify for Federal aid due to the overall length of the bridge.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	250,000								250,000
Land Acquisition	5,000								5,000
Site Work			42,000						42,000
Construction			422,000						422,000
Equipment/Furnishings									0
Other			46,000						46,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>255,000</b>	<b>0</b>	<b>510,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>765,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds	255,000		510,000						765,000
Reallocated Bonds									0

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0



# McKinstry Mill Road over Little Pipe Creek

Commissioner District: 4

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

Proj #

Functional Classification: Rural Local  
 Average Daily Traffic: 338  
 Bridge Number: CL 236



This project provides planned funding to replace the bridge, located in western Carroll County, east of the Town of Union Bridge, with a new structure. The type of replacement structure will be determined based on an alternatives analysis. The structure width and waterway opening will be evaluated as part of the analysis.

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			250,000						250,000
Land Acquisition									0
Site Work						138,000			138,000
Construction						1,373,000			1,373,000
Equipment/Furnishings									0
Other						235,000			235,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>0</b>	<b>1,746,000</b>	<b>0</b>	<b>0</b>	<b>1,996,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Bonds			50,000			417,200			467,200
Reallocated Bonds									0
Federal Highway/Bridge			200,000			1,328,800			1,528,800

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Old Kays Mill Road over Beaver Run

Commissioner District: 2

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

Proj #

Functional Classification: Rural Local  
 Average Daily Traffic: 209  
 Bridge Number: CL 344



This project provides planned funding to replace the three cell structural plate pipe culverts, located in the Finksburg area of Carroll County, with a new structure. The type of replacement structure will be determined based on an alternatives analysis. The structure is posted for weight limits.

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design			270,000						270,000
Land Acquisition									0
Site Work					180,000				180,000
Construction					1,831,000				1,831,000
Equipment/Furnishings									0
Other					285,000				285,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>270,000</b>	<b>0</b>	<b>2,296,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2,566,000</b>
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<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds			54,000		527,200				581,200
Federal Highway/Bridge			216,000		1,768,800				1,984,800

<b>PROJECTED OPERATING IMPACTS</b>									
	0	0	0	0	0	0			0

# Patapsco Road Bridge Deck Replacement

Commissioner District: 2

Heidi K. Pepin, Management and Budget Project Coordinator (410) 386-2082

Proj #

Functional Classification: Minor Collector  
 Average Daily Traffic: 147  
 Bridge Number: CL 351



This project provides planned funding to replace the concrete deck on the structure, located in eastern Carroll County. This project also includes painting the steel beams and performing substructure masonry repairs.

*This project qualifies for Federal aid, which covers 80 percent of the engineering, inspection, and construction costs.*

	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design					170,000				170,000
Land Acquisition									0
Site Work						28,000			28,000
Construction						280,000			280,000
Equipment/Furnishings									0
Other						116,000			116,000
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>170,000</b>	<b>424,000</b>	<b>0</b>	<b>0</b>	<b>594,000</b>
<b>SOURCES OF FUNDING</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds					34,000	152,800			186,800
Federal Highway/Bridge					136,000	271,200			407,200
<b>PROJECTED OPERATING IMPACTS</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>			