

## Overview of Public Works CIP

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

Approximately \$88.3M is included in the FY 19 – 24 CIP to maintain 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 patching, overlay, mill and overlay, full-depth reclamation, and reconstruction.

Funding is provided to design and construct a roundabout at the intersection of Lucabaugh Mill, Sullivan, and Lemmon Roads.

Included in FY 19 – 24 is \$0.6M to support State road projects. Contributing to State projects may expedite the planning process for State roads in Carroll County.

Market Street Extended, a new road construction project, will create a more direct connection to MD 140 from Old Westminster Pike.

Funding is included in the FY 19 – 24 CIP for rehabilitation and video inspection of storm drains. Video inspections will assess the condition of the storm drain system and rehabilitation funding is included for pipe lining and replacements.

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

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

COMMUNITY INVESTMENT PLAN FOR FISCAL YEARS 2019 TO 2024

	2019	2020	2021	2022	2023	2024	Prior Allocation	Balance To Complete	Total Project Cost
<b>BRIDGES:</b>									
Bear Run Road over Bear Branch	\$120,000	\$0	\$305,000	\$0	\$1,185,000	\$0	\$0	\$0	\$1,610,000
Bridge Inspection and Inventory	39,000	41,000	43,000	45,000	47,000	49,000	0	0	264,000
Bridge Maintenance and Structural Repair	68,000	71,000	75,000	78,000	82,000	85,000	0	0	459,000
Cleaning and Painting of Existing Bridge Structural Steel	317,000	212,000	223,000	234,000	246,000	258,000	0	0	1,490,000
Gaither Road over South Branch Patapsco	0	0	1,935,000	0	0	0	275,000	0	2,210,000
Hawks Hill Road over Little Pipe Creek Tributary	0	0	0	255,000	0	470,000	0	0	725,000
Hollingsworth Road over Unnamed Tributary	865,000	0	0	0	0	0	200,000	0	1,065,000
McKinstry's Mill Road over Little Pipe Creek	0	0	0	0	0	250,000	0	1,355,200	1,605,200
<b>BRIDGES TOTAL</b>	<b>\$1,409,000</b>	<b>\$324,000</b>	<b>\$2,581,000</b>	<b>\$612,000</b>	<b>\$1,560,000</b>	<b>\$1,112,000</b>	<b>\$475,000</b>	<b>\$1,355,200</b>	<b>\$9,428,200</b>
<b>SOURCES OF FUNDING:</b>									
Transfer from General Fund	\$161,000	\$154,000	\$163,000	\$170,000	\$178,000	\$186,000	\$0	\$0	\$1,012,000
Bonds	971,000	0	593,000	255,000	165,000	538,000	259,000	271,040	3,052,040
Federal Highway/Bridge	277,000	170,000	1,825,000	187,000	1,217,000	388,000	216,000	1,084,160	5,364,160
<b>BRIDGES TOTAL</b>	<b>\$1,409,000</b>	<b>\$324,000</b>	<b>\$2,581,000</b>	<b>\$612,000</b>	<b>\$1,560,000</b>	<b>\$1,112,000</b>	<b>\$475,000</b>	<b>\$1,355,200</b>	<b>\$9,428,200</b>

# Bear Run Road over Bear Branch

District Location: 1

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

Proj #

Functional Classification: Local  
 Average Daily Traffic: 388  
 Bridge Number: CL 261



This project provides funding to evaluate grout lining as a long-term option in lieu of replacement of the three-cell-culvert structure. Grout lining is the spray application of a fine aggregate concrete mixture to each culvert that will extend the life of the structure. If this option is not viable, planned funding is included in FY 21 and FY 23 to replace the existing structure, located in central Carroll County, west of Westminster. The type of structure will be determined during an alternatives analysis.

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

	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	30,000		305,000						335,000
Land Acquisition									0
Site Work					100,000				100,000
Construction	70,000				985,000				1,055,000
Equipment/Furnishings									0
Other	20,000				100,000				120,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>120,000</b>	<b>0</b>	<b>305,000</b>	<b>0</b>	<b>1,185,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1,610,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund	14,000								14,000
Reallocated GF Transfer									0
Bonds	106,000		82,000		165,000				353,000
Federal Highway/Bridge			223,000		1,020,000				1,243,000

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

# 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 twenty-one minor structures that do not qualify for Federal funds. Twenty-one small structures are inspected on the same biennial inspection cycle as the 133 major County-maintained structures and four bridges are inspected annually. The project includes field inspections of all twenty-one structures, as well as completion and submission of inspection reports to the County. The inspection reports are used to evaluate repairs and structure replacements.

	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	39,000	41,000	43,000	45,000	47,000	49,000			<b>264,000</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>39,000</b>	<b>41,000</b>	<b>43,000</b>	<b>45,000</b>	<b>47,000</b>	<b>49,000</b>	<b>0</b>	<b>0</b>	<b>264,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund	39,000	41,000	43,000	45,000	47,000	49,000			<b>264,000</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>									
	0	0	0	0	0	0			<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 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 below. Additional evaluation will be completed prior to developing contract documents.

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 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design									0
Land Acquisition									0
Site Work									0
Construction	68,000	71,000	75,000	78,000	82,000	85,000			459,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>68,000</b>	<b>71,000</b>	<b>75,000</b>	<b>78,000</b>	<b>82,000</b>	<b>85,000</b>	<b>0</b>	<b>0</b>	<b>459,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund	68,000	71,000	75,000	78,000	82,000	85,000			459,000
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

# Cleaning and Painting of Existing 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 existing 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, with design anticipated to begin in FY 18.

- 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 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design	17,000	18,000	19,000	20,000	21,000	22,000			117,000
Land Acquisition									0
Site Work									0
Construction	300,000	194,000	204,000	214,000	225,000	236,000			1,373,000
Equipment/Furnishings									0
Other									0
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>317,000</b>	<b>212,000</b>	<b>223,000</b>	<b>234,000</b>	<b>246,000</b>	<b>258,000</b>	<b>0</b>	<b>0</b>	<b>1,490,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund	40,000	42,000	45,000	47,000	49,000	52,000			275,000
Reallocated GF Transfer									0
Local Income Tax									0
Federal Highway/Bridge	277,000	170,000	178,000	187,000	197,000	206,000			1,215,000

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

# Gaither Road over South Branch Patapsco

District Location: 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 planned funding to replace the existing steel truss bridge, located in southern Carroll County on the Howard County border, with a new structure. The type of 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 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							275,000		275,000
Land Acquisition									0
Site Work			155,000						155,000
Construction			1,530,000						1,530,000
Equipment/Furnishings									0
Other			250,000						250,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>1,935,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>275,000</b>	<b>0</b>	<b>2,210,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Bonds			511,000				59,000		570,000
Federal Highway/Bridge			1,424,000				216,000		1,640,000

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

# Hawks Hill Road over Little Pipe Creek Tributary

District Location: 4

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

Proj #

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



This project provides planned funding to replace the existing small bridge, located in western Carroll County near the Town of New Windsor. The existing structure is constructed of concrete encased steel beams on stone masonry abutments. The type of 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.

	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design				250,000					250,000
Land Acquisition				5,000					5,000
Site Work						40,000			40,000
Construction						390,000			390,000
Equipment/Furnishings									0
Other						40,000			40,000
<b>EXPENDITURES</b>									

<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>255,000</b>	<b>0</b>	<b>470,000</b>	<b>0</b>	<b>0</b>	<b>725,000</b>
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<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									0
Reallocated GF Transfer									0
Local Income Tax									0
Bonds				255,000		470,000			725,000

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



# Hollingsworth Road over Unnamed Tributary

District Location: 2

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

8628

Functional Classification: Rural Local  
 Average Daily Traffic: 1,114  
 Bridge Number: CL 348



This project provides funding to replace the existing bridge, located in eastern Carroll County near the Baltimore County line, west of Glen Falls Road. The existing structure is a steel beam bridge with a timber deck on stone abutments. The type of 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.

	FY 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design							200,000		200,000
Land Acquisition	8,000								8,000
Site Work	66,000								66,000
Construction	660,000								660,000
Equipment/Furnishings									0
Other	131,000								131,000

**EXPENDITURES**

<b>TOTAL</b>	<b>865,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>200,000</b>	<b>0</b>	<b>1,065,000</b>
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**SOURCES OF FUNDS**

Transfer from General Fund									0
Reallocated GF Transfer									0
Local Income Tax									0
Bonds	865,000						200,000		1,065,000

**PROJECTED OPERATING IMPACTS**

	0	0	0	0	0	0
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# McKinstry Mill Road over Little Pipe Creek

District Location: 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 existing bridge, located in western Carroll County, approximately 1.8 miles east of the Town of Union Bridge, with a new structure. The type of 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 19	FY 20	FY 21	FY 22	FY 23	FY 24	Prior Allocation	Balance to Complete	Total Project Cost
Engineering/Design						250,000			<b>250,000</b>
Land Acquisition									<b>0</b>
Site Work								112,000	<b>112,000</b>
Construction								1,120,000	<b>1,120,000</b>
Equipment/Furnishings									<b>0</b>
Other								123,200	<b>123,200</b>
<b>EXPENDITURES</b>									
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>250,000</b>	<b>0</b>	<b>1,355,200</b>	<b>1,605,200</b>

<b>SOURCES OF FUNDS</b>									
Transfer from General Fund									<b>0</b>
Reallocated GF Transfer									<b>0</b>
Bonds						68,000		271,040	<b>339,040</b>
Federal Highway/Bridge						182,000		1,084,160	<b>1,266,160</b>

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