

City of Harrisonburg Capital Improvement Program



FY 2019-2020 Through 2023-2024

**CITY OF HARRISONBURG
CAPITAL IMPROVEMENT PROGRAM
FISCAL YEAR 2019-20 THROUGH FISCAL YEAR 2023-24**

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**CITY OF HARRISONBURG
CAPITAL IMPROVEMENT PROGRAM
FISCAL YEAR 2019-2020 THROUGH FISCAL YEAR 2023-2024**

INTRODUCTION

Purpose

The Capital Improvement Program (CIP) is a multi-year production and scheduling of capital projects of \$50,000 or greater with an appropriate financing plan to fund these projects. Harrisonburg's CIP is prepared annually to facilitate planning and setting priorities among capital improvement needs over a subsequent five-year period. The CIP is designed to identify projects for all City departments for which funding has already been committed or is being sought for some time within the five-year planning period.

Planning for capital equipment and improvements is a matter of prudent fiscal management. Large, non-recurring capital outlays require special planning for several reasons. First, special planning is needed to ensure that assets are acquired in time to meet specific needs. Also, careful planning can seek to spread costs more comfortably over several years and avoid a large peak in expenditures during a single year. A comprehensively prepared CIP also shows a strong commitment to the City's Mission Statement.

It should be stressed that the CIP is not a budget, but a planning tool. The actual commitment of funds for any capital item comes with the approval of the annual budget for each fiscal year. However, the CIP should serve as an important planning tool for formulating the capital portion of the annual budget. All the proposed projects within the CIP will likely not be funded exactly as outlined due to budgetary restraints. Nevertheless, all the projects are important and need to be included in the planning document to have a clear vision of the City's long-term needs. Projects for Harrisonburg City Public Schools are also included within the document.

Finally, it should be stressed that the CIP is not a static plan. It is a part of annual planning and programming. Each year, another year will be added to the planning period to maintain the five-year forecast horizon. Also, each year, costs and needs are reevaluated. The goal of this process is for the City to continue to meet its capital needs in a timely manner and to maintain a tradition of strong fiscal responsibility.

Format

Each project in the CIP is explained on a CIP Project Request Form, which categorizes the project belonging to a department and itemizes anticipated project costs along with a recommended funding schedule. When known or recognized, estimates of annual operating costs for projects are also presented. On the CIP Project Request Form, the requesting department provides a narrative description of the project along with marking any of the provided justification terms and phrases that pertain to the project.

The justifications terms are described below:

<u>Justification Terms</u>	<u>Justification Description</u>
1. Mandated	Project is clearly and specifically required by a federal or state mandate or court ruling.
2. Remove hazards	Makes possible the removal of an obvious or potential hazard to public health or safety.
3. Maintains existing service	Allows an existing standard of service to be maintained, where decreases in services would otherwise have been necessary.
4. Increased efficiency	Reduces operating costs.
5. Increased revenues	Makes possible a net gain in revenues available to the City.
6. Improves existing service	Makes possible an expansion or increase of an existing service or an improvement in the standard of an existing service.
7. New service	Makes possible the provision of a new service.
8. Convenience	Increases convenience or comfort.
9. Other	(Describe).

All capital projects were reviewed by the CIP Committee (City Manager, Deputy City Manager, Director of Finance, and Director of Planning and Community Development) in conjunction with department heads. Each project was assigned one of five priority codes, shown under the Project Code on the CIP Project Request Form. The priority codes are described as follows:

<u>Priority Code</u>	<u>Description</u>
1	Absolutely required.
2	Highly desirable, affects efficiency and effectiveness.
3	Desirable.
4	Marginally beneficial.
5	Not justified.

Only projects rated by the CIP Committee at “3” or higher are included in the recommended CIP. Projects rated “1” and “2” are summarized separately to reflect the projects that will be given the highest budget priority. Also, based on the five-year projection of estimated revenues and

expenditures contained in the appendices, estimates of funds available for capital projects are at the bottom of the summary page for each major fund. The City will have a tough time funding all the number 1 and 2 projects given the current revenue stream.

Lastly, the CIP Project Request Form includes a section titled Goals/Objectives, which includes one or more listed goals or objectives from the City's Comprehensive Plan. Identifying how a project supports the goals and objectives of the Comprehensive Plan demonstrates the City's commitment to its Mission statement and to its goals.

Appendices

Following the presentation of the various capital projects by fund are separate appendices for the General Fund, Water Fund, Sewer Fund, School Transportation Fund, Public Transportation Fund, Sanitation Fund, and Stormwater Fund. Each appendix carefully tracks the history of these funds regarding past revenue levels and past expenditure levels. This history, along with obligated debt service requirements, is the basis for a five-year projection for each fund of new capital financing potential. There are many variables that could significantly increase or decrease the available funding. These projections are in the range of what can be reasonably expected and should be compared with the level of funding required to implement the recommended CIP.

Schedule

It is proposed that Planning Commission review the CIP in February 2019, when, if necessary, department heads will be available to answer questions. Planning Commission will develop its recommendation to City Council. City Council will receive Planning Commission's recommendation at a public hearing in March 2019. Final adoption is scheduled for March 2019.

CITY OF HARRISONBURG
Capital Improvement Program
Priority 1 & 2 Projects
General Fund Summary
FY 2020 through FY 2024

Department Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
Information Technology									
New Water Billing Software	1	2	\$ 600,000	\$ -	\$ -	\$ -	\$ -	\$ 600,000	
Electronic Time Entry System	2	2	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000	
Training Management Software	3	2	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000	
CAMS Phase IV	4	2	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000	
Citizen Inquiry Application	5	2	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ 250,000	
Document Management System	6	2	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000	
Department Total			\$ 600,000	\$ 450,000	\$ 750,000	\$ -	\$ -	\$ 1,800,000	
Fire Department									
Fire State 4 Renovation/Replacement	8	2	\$ 2,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,000,000	
Fire Engine 23 Replacement	11	2	\$ -	\$ -	\$ -	\$ 640,000	\$ -	\$ 640,000	
Tower Replacement	12	2	\$ -	\$ -	\$ 1,270,000	\$ -	\$ -	\$ 1,270,000	
Department Total			\$ 2,000,000	\$ -	\$ 1,270,000	\$ -	\$ -	\$ 3,270,000	

Department	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
Emergency Communications Center									
9-1-1 System Upgrade	13	1	\$ 700,000	\$ -	\$ -	\$ -	\$ -	\$ 700,000	
Construct New ECC	14	2	\$ -	\$ 600,000	\$ 8,150,000	\$ -	\$ -	\$ 8,750,000	
Replace Microwave Radio System	15	2	\$ -	\$ 2,500,000	\$ -	\$ -	\$ -	\$ 2,500,000	
Department Total			\$ 700,000	\$ 3,100,000	\$ 8,150,000	\$ -	\$ -	\$ 11,950,000	
General Properties									
Renovation of Old Municipal Building	16	2	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000	
Department Total			\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000	
Public Works									
Country Club Road (2) Bridges	18	2	\$ -	\$ -	\$ -	\$ 400,000	\$ 300,000	\$ 700,000	\$ 3,700,000
Water Street Bridge	19	2	\$ -	\$ -	\$ 500,000	\$ 1,000,000	\$ 2,000,000	\$ 3,500,000	
Bridge Preventative Maintenance Program	20	1	\$ 140,000	\$ 140,000	\$ 155,000	\$ 155,000	\$ 170,000	\$ 760,000	
Annual Curb & Gutter and Sidewalk Replacement	21	2	\$ 230,000	\$ 235,000	\$ 240,000	\$ 245,000	\$ 245,000	\$ 1,195,000	
Annual Street Paving Program	22	2	\$ 1,800,000	\$ 1,900,000	\$ 2,000,000	\$ 2,000,000	\$ 2,100,000	\$ 9,800,000	
Traffic Management Equipment Program	32	2	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000	
Traffic Detection Cameras (Grid Smart)	34	2	\$ 139,000	\$ 170,000	\$ 156,000	\$ 170,000	\$ 122,000	\$ 757,000	
Traffic Signal Pole Anchor Bolts UT Inspection	35	1	\$ -	\$ -	\$ 75,000	\$ -	\$ -	\$ 75,000	
Renovations of Public Works Maintenance Shops	39	2	\$ 120,000	\$ 600,000	\$ -	\$ -	\$ -	\$ 720,000	
South Main Street	44	2	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 1,000,000	\$ 13,000,000
Chicago Avenue/Mt. Clinton Pike/Park Road Roundabout	45	2	\$ -	\$ -	\$ -	\$ -	\$ 5,449,334	\$ 5,449,334	\$ 6,063,099
Chicago Avenue Improvements	46	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,250,000
Carlton Street Improvement	49	2	\$ -	\$ -	\$ -	\$ -	\$ 127,125	\$ 127,125	\$ 780,864
Bluestone Trail	50	2	\$ -	\$ 500,000	\$ 3,000,000	\$ -	\$ -	\$ 3,500,000	

Public Works Continued	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
East Market Street - Exit 247 Improvements MLK to Burgess	52	2	\$ 25,423,901	\$ 25,423,901	\$ 725,000	\$ 6,000,000	\$ -	\$ 57,572,802	
University BLVD & Evelyn Byrd Sidewalk	53	2	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ 2,459,765
Stone Spring Road/Erickson Avenue Connector	54	2	\$ -	\$ -	\$ -	\$ -	\$ 647,519	\$ 647,519	\$ 2,711,628
Martin Luther King Jr. Way Widening	56	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,425,000
East Market Street - Safety Improvement Program	57	2	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000	
Neff Avenue Improvements	58	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,400,000
Virginia Avenue - Gay Street to 5th Street	60	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,000,000
Linda Lane Widening	61	2	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000	\$ 2,500,000
Smithland Road	62	2	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ 500,000	\$ 4,000,000
Northend Greenway	64	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,300,000
North Main Street Sidewalk	65	2	\$ -	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 1,000,000	
Reservoir Street Sidewalk	66	2	\$ -	\$ 100,000	\$ 100,000	\$ 500,000	\$ -	\$ 700,000	
University BLVD Relocation	68	2	\$ -	\$ 500,000	\$ 500,000	\$ 5,000,000	\$ -	\$ 6,000,000	
Department Total			\$ 28,102,901	\$ 30,618,901	\$ 7,501,000	\$ 17,020,000	\$ 11,760,978	\$ 95,003,780	\$ 59,590,356
Parks and Recreation									
Purcell Park Playground Improvement Program	69	2	\$ 450,000	\$ -	\$ -	\$ -	\$ -	\$ 450,000	
Heritage Oaks - Water Supply	71	2	\$ 68,500	\$ -	\$ -	\$ -	\$ -	\$ 68,500	
Riven Rock Restrooms	73	2	\$ -	\$ 97,000	\$ -	\$ -	\$ -	\$ 97,000	
Department Total			\$ 518,500	\$ 97,000	\$ -	\$ -	\$ -	\$ 615,500	\$ -

Parking Services	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	Total	Beyond
Downtown Parking Deck	77	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,500,000
Elizabeth Street Deck	79	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,500,000
Downtown Parking Lot Improvement Program	80	2	\$ -	\$ 190,000	\$ -	\$ -	\$ -	\$ 190,000	
Department Total			\$ -	\$ 190,000	\$ -	\$ -	\$ -	\$ 190,000	\$ 16,000,000
TOTAL GENERAL FUND			\$ 31,921,401	\$ 39,455,901	\$ 17,671,000	\$ 17,020,000	\$ 11,760,978	\$ 117,829,280	\$ 75,590,356
Potential Other Funding, Excluding Bond Funds, Not Included in Available Revenues			\$ (26,807,401)	\$ (28,573,901)	\$ (7,225,000)	\$ (11,700,000)	\$ (8,711,598)	\$ (83,017,900)	
Anticipated Bond Funds			\$ -	\$ (5,000,000)	\$ (4,000,000)	\$ -	\$ -	\$ (9,000,000)	
TOTAL NEEDED FROM GENERAL FUND (EXCLUDING SCHOOLS)			\$ 5,114,000	\$ 5,882,000	\$ 6,446,000	\$ 5,320,000	\$ 3,049,380	\$ 25,811,380	
TOTAL AVAILABLE FROM GENERAL FUND			\$ 4,845,800	\$ 4,584,400	\$ 4,067,900	\$ 3,173,600	\$ 2,804,500	\$ 19,476,200	

CITY OF HARRISONBURG
Capital Improvement Program
Priority 1 & 2 Projects
School Fund
FY 2020 through FY 2024

School Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
Upgrade HVAC Controls Stone Spring ES	82	2	\$ -	\$ -	\$ -	\$ -	\$ 53,000	\$ 53,000	
Storefront Door Replacement Skyline MS and Smithland ES	83	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 102,000
Chiller Replacement Harrisonburg HS	84	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300,000
Renovation/Remodel of Thomas Harrison MS	85	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Construct New High School	86	2	\$ 5,500,000	\$ 80,000,000	\$ -	\$ -	\$ -	\$ 85,500,000	
Boiler Replacement Stone Spring ES	87	2	\$ -	\$ 75,000	\$ -	\$ -	\$ -	\$ 75,000	
Replace Roof Sections at THMS	88	2	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	
Air Handler Replacement at Spotswood ES, Waterman ES, and Keister ES	89	2	\$ -	\$ -	\$ -	\$ 685,000	\$ -	\$ 685,000	
Chiller Replacement at Stone Spring ES	90	2	\$ -	\$ 185,000	\$ -	\$ -	\$ -	\$ 185,000	
Purchase Land for 7th Elementary School	91	2	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -	\$ 1,500,000	
Resurface THMS Parking Lot and Road	92	2	\$ -	\$ -	\$ 91,000	\$ -	\$ -	\$ 91,000	
Roof Replacement/Repairs at Spotswood ES and Waterman ES	93	2	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000	
Tennis Court Replacement at HHS	94	2	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000
TOTAL SCHOOL FUND			\$ 5,550,000	\$ 80,260,000	\$ 91,000	\$ 2,385,000	\$ 53,000	\$ 88,339,000	\$ 5,752,000
ANTICIPATED BOND FUNDS			\$ (5,500,000)	\$ (80,000,000)	\$ -	\$ -	\$ -	\$ (85,500,000)	\$ (5,000,000)
TOTAL NEEDED FROM SCHOOL FUND			\$ 50,000	\$ 260,000	\$ 91,000	\$ 2,385,000	\$ 53,000	\$ 2,839,000	\$ 752,000

CITY OF HARRISONBURG

Capital Improvement Program

Priority 1 and 2 Projects

Water Fund

FY 2020 through FY 2024

Water Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
Western Raw Waterline	95	2	\$ 242,900	\$ 100,000	\$ 277,946	\$ 100,000	\$ 100,000	\$ 820,846	\$ 26,494,452
Eastern Source Development	97	2	\$ 14,000,000	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 18,000,000	\$ -
Rural Potable Projects	100	2	\$ 70,000	\$ 255,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,075,000	\$ 13,503,698
Management of Pumping, Storage & Transfer Assets	101	2	\$ 402,106	\$ 417,229	\$ 276,636	\$ 367,421	\$ 281,526	\$ 1,744,918	\$ 3,561,456
Management of Transmission & Distribution of Assets	103	2	\$ 460,000	\$ 460,000	\$ 460,000	\$ 460,000	\$ 460,000	\$ 2,300,000	\$ 6,195,000
Management of Water Treatment Assets	105	2	\$ 170,255	\$ -	\$ -	\$ -	\$ 643,774	\$ 814,029	\$ 978,872
Management of Metering System	107	2	\$ 96,325	\$ 89,565	\$ 96,678	\$ 94,740	\$ 64,140	\$ 441,448	\$ 2,495,694
Facilities	109	2	\$ 114,707	\$ 125,000	\$ -	\$ -	\$ -	\$ 239,707	\$ 71,261.00
TOTAL WATER FUND			\$ 15,556,293	\$ 5,446,794	\$ 1,361,260	\$ 1,272,161	\$ 1,799,440	\$ 25,435,948	\$ 53,300,433
Contribution to General Fund IT Projects			\$ 270,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 295,000	
Potential Other Funding, Excluding Bond Funds, Not Included in Available Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Anticipated Bond Funds Not Included in Available Revenues			\$ (14,052,879)	\$ -	\$ -	\$ -	\$ -	\$ (14,052,879)	
TOTAL NEEDED FROM WATER FUND			\$ 1,773,414	\$ 5,471,794	\$ 1,361,260	\$ 1,272,161	\$ 1,799,440	\$ 11,678,069	\$ 53,300,433
TOTAL AVAILABLE FROM WATER FUND			\$ 2,295,300	\$ 2,349,600	\$ 2,402,200	\$ 2,456,700	\$ 2,506,700	\$ 12,010,500	

**CITY OF HARRISONBURG
Capital Improvement Program**

**Priority 1 & 2 Projects
Sewer Fund**

FY 2020 through FY 2024

Sewer Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
Blacks Run Interceptor Upgrade Program	110	2	\$ 817,129	\$ 1,089,928	\$ 37,514	\$ -	\$ 2,198,469	\$ 4,143,040	\$ 3,934,123
Management of Collection & Transmission Assets	111	2	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 2,500,000	\$ 16,100,000
Management of Transfer & Monitoring Assets	113	2	\$ 237,982	\$ -	\$ -	\$ 114,680	\$ -	\$ 352,662	\$ 748,474
Facilities	115	2	\$ 114,707	\$ 125,000	\$ -	\$ -	\$ -	\$ 239,707	\$ 71,261
HRRSA Blacks Run Interceptor Upgrade	116	2	\$ -	\$ -	\$ -	\$ 703,438	\$ 703,438	\$ 1,406,876	\$ 59,265,834
TOTAL SEWER FUND			\$ 1,669,818	\$ 1,714,928	\$ 537,514	\$ 1,318,118	\$ 3,401,907	\$ 8,642,285	\$ 80,119,692
Contribution to General Fund IT Projects			\$ 270,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 295,000	\$ -
Potential Other Funding, Not Included in Available Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Anticipated Bond Funds Not Included in Available Revenues			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL NEEDED FROM SEWER FUND			\$ 1,939,818	\$ 1,739,928	\$ 537,514	\$ 1,318,118	\$ 3,401,907	\$ 8,937,285	\$ 80,119,692
TOTAL AVAILABLE FROM SEWER FUND			\$ 1,314,900	\$ 1,379,600	\$ 1,456,300	\$ 1,521,800	\$ 1,587,400	\$ 7,260,000	

CITY OF HARRISONBURG
Capital Improvement Program
Priority 1 & 2 Projects
School Transportation Fund
FY 2020 through FY 2024

School Transportation Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
School Buses	117	2	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 450,000	\$ 2,125,000	\$ -
TOTAL SCHOOL TRANSPORTATION FUND			\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 450,000	\$ 2,125,000	\$ -
TOTAL AVAILABLE FROM SCHOOL TRANSPORTATION FUND			\$ 367,300	\$ 375,400	\$ 383,700	\$ 392,400	\$ 401,300	\$ 1,920,100	\$ -

CITY OF HARRISONBURG
Capital Improvement Program
Priority 1 & 2 Projects
Public Transportation Fund
FY 2020 through 2024

Public Transportation Fund Project Title	Page #	Project Priority	FY 2018-2019	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	TOTAL	Beyond
Transit Buses	118	2	\$ 3,510,000	\$ 260,000	\$ 3,440,000	\$ 900,000	\$ 120,000	\$ 8,230,000	\$ -
TOTAL PUBLIC TRANSPORTATION FUND			\$ 3,510,000	\$ 260,000	\$ 3,440,000	\$ 900,000	\$ 120,000	\$ 8,230,000	\$ -
Potential Other Funding Not Included in Available Revenues			\$ (3,159,000)	\$ (234,000)	\$ (3,096,000)	\$ (810,000)	\$ (108,000)	\$ (7,407,000)	\$ -
TOTAL NEEDED FROM PUBLIC TRANSPORTATION FUND			\$ 351,000	\$ 26,000	\$ 344,000	\$ 90,000	\$ 12,000	\$ 823,000	\$ -
TOTAL AVAILABLE FROM PUBLIC TRANSPORTATION FUND			\$ 159,900	\$ 101,000	\$ 39,800	\$ (23,900)	\$ (90,100)	\$ 186,700	\$ -

CITY OF HARRISONBURG

Capital Improvement Program

Priority 1 & 2 Projects

Sanitation Fund

FY 2020 through FY 2024

Sanitation Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
City Landfill Closure & Monitoring	119	1	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000	\$ 1,533,600
TOTAL SANITATION FUND			\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000	\$ 1,533,600
TOTAL NEEDED FROM SANITATION FUND			\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000	\$ 1,533,600
TOTAL AVAILABLE FROM SANITATION FUND			\$ 25,100	\$ (43,100)	\$ (113,300)	\$ (186,700)	\$ (263,500)	\$ (581,500)	

CITY OF HARRISONBURG
Capital Improvement Program
Priority 1 & 2 Projects
Stormwater Fund
FY 2020 through FY 2024

Stormwater Fund Project Title	Page #	Project Priority	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL	Beyond
North End Greenway Stream Restoration	120	2	\$ 327,611	\$ 327,611	\$ -	\$ 327,611	\$ 327,611	\$ 1,310,444	\$ 984,779
Stormwater Improvement Plan	121	2	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000	
Mountain View Drive Stream Restoration	122	2	\$ 1,167,338	\$ -	\$ -	\$ -	\$ -	\$ 1,167,338	
VMRC Extended Detention Pond	123	2	\$ 10,000	\$ -	\$ 637,500	\$ -	\$ -	\$ 647,500	
Temporary Credit Purchases	124	2	\$ -	\$ -	\$ -	\$ 90,000	\$ -	\$ 90,000	\$ 90,000
East Market Street Regenerative Stormwater Conveyance	125	2	\$ 856,500	\$ -	\$ -	\$ -	\$ -	\$ 856,500	
Waterman Drive Drainage and water Quality Improvement	126	2	\$ -	\$ -	\$ 114,500	\$ -	\$ -	\$ 114,500	\$ 4,025,550
Eastern Mennonite University SWM Facilities	127	2	\$ -	\$ -	\$ 180,000	\$ -	\$ -	\$ 180,000	\$ 1,000,000
SWM Equipment Replacement	128	1	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000	\$ 255,000
TOTAL STORMWATER FUND			\$ 2,361,449	\$ 327,611	\$ 932,000	\$ 567,611	\$ 577,611	\$ 4,766,282	\$ 6,355,329
Potential Other Funding, Excluding Bond Funds, Not Included in Available Revenues			\$ (1,016,919)	\$ -	\$ (318,750)	\$ -	\$ -	\$ (1,335,669)	
TOTAL NEEDED FROM STORMWATER FUND			\$ 1,344,530	\$ 327,611	\$ 613,250	\$ 567,611	\$ 577,611	\$ 3,430,613	
TOTAL AVAILABLE FROM STORMWATER FUND			\$ 841,200	\$ 827,600	\$ 813,700	\$ 799,500	\$ 785,000	\$ 4,067,000	

CITY OF HARRISONBURG
5 Year Capital Improvement Request by Fund
Priority 1 and 2 Projects by Fund
FY 2020 through FY 2024

FUND	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL
General Fund	\$ 31,921,401	\$ 39,455,901	\$ 17,671,000	\$ 17,020,000	\$ 11,760,978	\$ 117,829,280
School Fund	\$ 5,550,000	\$ 80,260,000	\$ 91,000	\$ 2,385,000	\$ 53,000	\$ 88,339,000
Water	\$ 15,556,293	\$ 5,446,794	\$ 1,361,260	\$ 1,272,161	\$ 1,799,440	\$ 25,435,948
Sewer	\$ 1,669,818	\$ 1,714,928	\$ 537,514	\$ 1,318,118	\$ 3,401,907	\$ 8,642,285
School Transportation	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 450,000	\$ 2,125,000
Public Transportation	\$ 3,510,000	\$ 260,000	\$ 3,440,000	\$ 900,000	\$ 120,000	\$ 8,230,000
Sanitation Fund	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000
Stormwater Fund	\$ 2,361,449	\$ 327,611	\$ 932,000	\$ 567,611	\$ 577,611	\$ 4,766,282
Subtotal	\$ 61,078,961	\$ 128,005,234	\$ 24,577,774	\$ 24,012,890	\$ 18,292,936	\$ 255,967,795
Total Available from Other Sources (Includes anticipated bond funds not included in available funds)	\$ (50,536,199)	\$ (113,807,901)	\$ (14,639,750)	\$ (12,510,000)	\$ (8,819,598)	\$ (200,313,448)
TOTAL NEEDED BY ALL FUNDS	\$ 10,542,762	\$ 14,197,333	\$ 9,938,024	\$ 11,502,890	\$ 9,473,338	\$ 55,654,347
TOTAL AVAILABLE FROM ALL FUNDS	\$ 9,849,500	\$ 9,574,500	\$ 9,050,300	\$ 8,133,400	\$ 7,731,300	\$ 44,339,000

CITY OF HARRISONBURG
5 Year Capital Improvement Request by Department
FY 2020 through FY 2024

DEPARTMENT	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL
Information Technology	\$ 600,000	\$ 450,000	\$ 750,000	\$ -	\$ -	\$ 1,800,000
Police	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fire	\$ 2,200,000	\$ 2,600,000	\$ 1,270,000	\$ 640,000	\$ -	\$ 6,710,000
Emergency Communications Center	\$ 700,000	\$ 3,100,000	\$ 8,150,000	\$ -	\$ -	\$ 11,950,000
General Properties	\$ 282,500	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,282,500
Public Works	\$ 29,177,901	\$ 30,668,901	\$ 13,576,000	\$ 22,220,000	\$ 13,893,530	\$ 109,536,332
Parks and Recreation	\$ 518,500	\$ 97,000	\$ 25,000	\$ 350,000	\$ 210,000	\$ 1,200,500
Parking Services	\$ 50,000	\$ 190,000	\$ -	\$ -	\$ -	\$ 240,000
Schools	\$ 5,550,000	\$ 80,260,000	\$ 91,000	\$ 2,385,000	\$ 53,000	\$ 88,339,000
Water	\$ 15,556,293	\$ 5,446,794	\$ 1,361,260	\$ 1,272,161	\$ 1,799,440	\$ 25,435,948
Sewer	\$ 1,669,818	\$ 1,714,928	\$ 537,514	\$ 1,318,118	\$ 3,401,907	\$ 8,642,285
Transportation (School and Transit)	\$ 3,910,000	\$ 685,000	\$ 3,865,000	\$ 1,325,000	\$ 570,000	\$ 10,355,000
Sanitation	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000
Stormwater	\$ 2,361,449	\$ 327,611	\$ 932,000	\$ 567,611	\$ 577,611	\$ 4,766,282
Subtotal	\$ 62,686,461	\$ 130,655,234	\$ 30,677,774	\$ 30,202,890	\$ 20,635,488	\$ 274,857,847
Total Available from Other Sources (Includes anticipated bond funds not included in available funds)	\$ (51,036,199)	\$ (113,807,901)	\$ (20,139,750)	\$ (17,250,000)	\$ (10,427,150)	\$ (212,661,000)
TOTAL NEEDED BY ALL DEPTS.	\$ 11,650,262	\$ 16,847,333	\$ 10,538,024	\$ 12,952,890	\$ 10,208,338	\$ 62,196,847
TOTAL AVAILABLE FROM ALL FUNDS	\$ 9,849,500	\$ 9,574,500	\$ 9,050,300	\$ 8,133,400	\$ 7,731,300	\$ 44,339,000

CITY OF HARRISONBURG
5 Year Capital Improvement Request by Fund
FY 2020 through FY 2024

FUND	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024	TOTAL
General Fund	\$ 33,528,901	\$ 42,105,901	\$ 23,771,000	\$ 23,210,000	\$ 14,103,530	\$ 136,719,332
Schools	\$ 5,550,000	\$ 80,260,000	\$ 91,000	\$ 2,385,000	\$ 53,000	\$ 88,339,000
Water	\$ 15,556,293	\$ 5,446,794	\$ 1,361,260	\$ 1,272,161	\$ 1,799,440	\$ 25,435,948
Sewer	\$ 1,669,818	\$ 1,714,928	\$ 537,514	\$ 1,318,118	\$ 3,401,907	\$ 8,642,285
School Transportation	\$ 400,000	\$ 425,000	\$ 425,000	\$ 425,000	\$ 450,000	\$ 2,125,000
Public Transportation	\$ 3,510,000	\$ 260,000	\$ 3,440,000	\$ 900,000	\$ 120,000	\$ 8,230,000
Sanitation	\$ 110,000	\$ 115,000	\$ 120,000	\$ 125,000	\$ 130,000	\$ 600,000
Stormwater	\$ 2,361,449	\$ 327,611	\$ 932,000	\$ 567,611	\$ 577,611	\$ 4,766,282
Subtotal	\$ 62,686,461	\$ 130,655,234	\$ 30,677,774	\$ 30,202,890	\$ 20,635,488	\$ 274,857,847
Total Available from Other Sources (Includes anticipated bond funds not included in available funds)	\$ (51,036,199)	\$ (113,807,901)	\$ (20,139,750)	\$ (17,250,000)	\$ (10,427,150)	\$ (212,661,000)
TOTAL NEEDED BY ALL FUNDS	\$ 11,650,262	\$ 16,847,333	\$ 10,538,024	\$ 12,952,890	\$ 10,208,338	\$ 62,196,847
TOTAL AVAILABLE FROM ALL FUNDS	\$ 9,849,500	\$ 9,574,500	\$ 9,050,300	\$ 8,133,400	\$ 7,731,300	\$ 44,339,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: New Water Billing Software
Project Code: IT-NSP01
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2020
Department: 122011 **Status:** Active **Completion Date (FYE):** 2020

Description:

Replace the current Utility Billing System.

Justifications:

Mandated
 Remove hazards
 Maintains service
 x-Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Explanation:

The current Utility Billing software is 17 years old, lacking in many newly required functionality, heavily customized, and requires a high level of support from the IT department. A new system will provide features such as GIS integration, e-mail notification, online account maintenance, landlord/management functionality that the current system either lacks or has been internally modified to support.

Alternative:

None, the software will soon become vendor unsupported. IT resources will need to be expanded to support and possibly update the software at a higher long term cost than replacement.

Goals and Objectives

O 14.1
 O 14.2
 O 14.7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses		\$600,000						\$600,000
Total	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$600,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$60,000						\$60,000
Enterprise Revenue		\$540,000						\$540,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$600,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating			\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$600,000
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$600,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Electronic Time Entry System
Project Code: IT-SP010
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** 2021
Department: 122011 **Status:** Active **Completion Date (FYE):** 2021

Description:

Create an enterprise-wide timecard system that will be utilized by those departments requiring time card management. The system will also include an interface into the current Human Resources system to reduce manual keying of time card data.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- x-Convenience
- Other

Explanation:

Currently there are at least 4 different time card systems in use with the City. Each of these systems works independent of each other and the Human Resources package the City utilizes to perform payroll functions. The System will allow all departments the ability to use the time card system, extract necessary reports, and automate the keying of timecard data from this system into the Human Resources System.

Goals and Objectives

Alternative:

Maintain multiple units and have staff continue to key from paper reports derived from their individual system.

G 14

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses			\$300,000					\$300,000
Total	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$250,000					\$250,000
Enterprise Revenue			\$50,000					\$50,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$300,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating				\$45,000	\$45,000	\$45,000	\$45,000	\$180,000
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$45,000	\$45,000	\$45,000	\$45,000	\$180,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Training Management Software
Project Code: IT-SP006
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2021
Department: 122011 **Status:** Active **Completion Date (FYE):** 2021

Description:

Develop a system for tracking and reporting employee training, licenses, and certifications. The goals will be to centralize the administration of training records, reduce the paper based tracking and maintenance, allow at-a-glance listing of all completed training, and proactive notifications for expiring certifications and licenses.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- x-Convenience
- Other

Explanation:

The City utilizes several different manual processes for tracking the training history and requirements for employees in different departments. There is a need for a standardized platform that can be utilized by all departments to satisfy their needs and any state mandated training. The process will include: developing policies and procedures regarding employee training, evaluating current software for suitability, and then either purchasing modifications or a new software package that can handle the diverse needs of the enterprise.

Goals and Objectives

- O 4.5
- O 15.2
- O 16.3

Alternative:

Continue to have departments maintain their own records in Excel/Access/paper.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses			\$100,000					\$100,000
Total	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$100,000					\$100,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating				\$20,000	\$20,000	\$20,000	\$20,000	\$80,000
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$20,000	\$20,000	\$20,000	\$20,000	\$80,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CAMS Phase IV

Project Code: IT-NSP03

Project Priority: Priority 2

Project Type: ADDITION

Start Date (FYE): 2021

Department: 122011

Status: Active

Completion Date (FYE): 2021

Description:

Continue development of Asset management software to include Parks and Recreation department.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

This would expand the current City Works software to include asset management and service requests for the Parks and Recreation Department. The department is currently using Facility Dude to help them get accustomed to utilizing a work order system, but the plan is to eventually utilize CityWorks as an enterprise citizen inquiry and work order system.

Alternative:

Continue with Facility Dude, but lose any enterprise level management of the system.

Goals and Objectives

O 12.4

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses			\$50,000					\$50,000
Total	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$50,000					\$50,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Citizen Inquiry Application
Project Code: IT-SP012
Project Priority: Priority 2 **Project Type:** ADDITION & RENOVATION **Start Date (FYE):** 2022
Department: 122011 **Status:** Active **Completion Date (FYE):** 2022

Description:

Create an enterprise wide system for tracking Citizen inquiries and requests.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- x-Convenience
- Other

Explanation:

Currently requests are channeled to the proper department, but requests requiring multiple departments must be managed manually. There is also no oversight or tracking, so if management at departmental or City level wishes to get an update on an issue, it could possibly take considerable time and resources to find the answer.

Alternative:

Continue to manually track citizen inquiries separately in each department.

Goals and Objectives

- O 1.3
- G 2
- G 3
- O 4.1
- O 5.1
- O 5.3
- O 18.4

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses				\$250,000				\$250,000
Total	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$250,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$250,000				\$250,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$250,000	\$0	\$0	\$0	\$250,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating					\$37,500	\$37,500	\$37,500	\$112,500
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$37,500	\$37,500	\$37,500	\$112,500



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Document Management System

Project Code: IT-SP008

Project Priority: Priority 2

Project Type: ADDITION

Start Date (FYE): 2022

Department: 122011

Status: Active

Completion Date (FYE): 2022

Description:

Create an enterprise-wide document management system. This system will reduce the abundance of paper-based systems, increase efficiency of staff, increase document security, improve compliance with state and federal regulations.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- x-Convenience
- Other

Explanation:

The City has acknowledged the need for a document management system. Several departments have started filing documents on network resources in anticipation of such a system, but many still have file folders full of paper documents that require manual intervention and little security. The new system will address the physical storage, manual retrieval process and security requirements for documents in the enterprise.

Goals and Objectives

- O 11.7
- G 14
- O 14.4

Alternative:

Continue to utilize manual processes in an inefficient manner. Research other methods of securing sensitive documents in the enterprise.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses				\$500,000				\$500,000
Total	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$500,000				\$500,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$500,000	\$0	\$0	\$0	\$500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating				\$75,000	\$75,000	\$75,000	\$75,000	\$300,000
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$75,000	\$75,000	\$75,000	\$75,000	\$300,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Firearms Range and Classroom Relocation
Project Code: PD1
Project Priority: Priority 3 **Project Type:** REPLACEMENT **Start Date (FYE):** Beyond
Department: 310231 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Expand HPD rifle range on the I-81 side of the Ramblewood property to replace the existing range and construction of a 1,000 square foot classroom to replace existing building.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

As part of the Ramblewood Park redevelopment, it was determined that it was not optimal to have a firearms training facility on the same side of Blacks Run as bike and pedestrian paths, Frisbee golf, etc. It was decided that the area of the site on the interstate side of Blacks Run would be devoted to the PD training facility and firearms range and that the classroom would be constructed at that area, leaving the existing building to be used by Parks and Recreation. The rifle range and pistol range will have heightened and extended berms to optimize safety and reduce noise.

Goals and Objectives

G 15
O 15.1

Alternative:

There is no workable alternative to this solution that would not compromise the issues of safety and noise abatement.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$30,600	\$30,600
Land								\$0
Construction							\$285,943	\$285,943
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$316,543	\$316,543

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$316,543	\$316,543
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$316,543	\$316,543

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Fire Station 4 Renovation/Replacement
Project Code: FS4
Project Priority: Priority 2 **Project Type:** RENOVATION **Start Date (FYE):** 2019
Department: 320132 **Status:** Active **Completion Date (FYE):** 2020

Description:

Renovate/replace Fire Station 4 on East Rock Street to accommodate the personnel assigned to the Station.

Justifications:

Mandated
 Remove hazards
 Maintains service
 x-Increase efficiency
 Increase revenues
 Improves service
 New service
 Convenience
 x-Other

Explanation:

Fire Station 4 was built in the 1970's and the interior was designed for two personnel assigned at that time. There are currently 6 - 9 personnel, not including volunteers, occupying the station. Living and sleeping areas are inadequate. The timing of this would be to capitalize on the logistical arrangements available with the completion of the renovations of Fire Station 1.

Goals and Objectives

We are currently doing a feasibility study to determine if replacement or renovation is the best option.

G 15
O 15.2

Alternative:

Construction of a new fire station which would be much more costly.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$200,000							\$200,000
Land								\$0
Construction		\$2,000,000						\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$200,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,200,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$200,000	\$2,000,000						\$2,200,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$200,000	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,200,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: FIRE STATION 5 (PARK VIEW)
Project Code: FS5
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** 2020
Department: 320132 **Status:** Active **Completion Date (FYE):** 2021

Description:

New fire station for the Park View area, which will improve response times to this area. When this station is built 12 additional personnel will have to be hired, and another fire engine will have to be purchased. Station is projected to be approximately 5,000 sq. ft.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Response times to this area are the longest of any in the city. The addition of this station will reduce response times, and provide better services to the residents of this area.

Alternative:

Relocate existing Fire Station 4 to an area which will continue to serve its existing area, as well as better serve the Park View area.

Goals and Objectives

G 15
O 15.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$200,000						\$200,000
Land								\$0
Construction			\$2,000,000					\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$200,000	\$2,000,000	\$0	\$0	\$0	\$0	\$2,200,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$200,000	\$2,000,000					\$2,200,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$200,000	\$2,000,000	\$0	\$0	\$0	\$0	\$2,200,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel			\$804,581	\$820,673	\$837,086	\$853,828	\$870,904	\$4,187,072
Operating			\$14,478	\$15,202	\$15,962	\$16,761	\$17,598	\$80,001
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$819,059	\$835,875	\$853,048	\$870,589	\$888,502	\$4,267,073



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: FIRE ENGINE - STATION 5

Project Code: FE5

Project Priority: Priority 3

Project Type: NEW

Start Date (FYE): 2021

Department: 320132

Status: Active

Completion Date (FYE): 2021

Description:

Additional fire engine for Park View Station.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Provides better response times to that area of the City.

Goals and Objectives

- G 15
- O 15.2

Alternative:

Use existing reserve engine, if mechanically sound, until such time as it needs to be replaced.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment			\$600,000					\$600,000
Other Expenses								\$0
Total	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$600,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$600,000					\$600,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$600,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating				\$3,945	\$4,143	\$4,350	\$4,566	\$17,004
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$3,945	\$4,143	\$4,350	\$4,566	\$17,004



**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: FIRE ENGINE 23 REPLACEMENT

Project Code: FER23

Project Priority: Priority 2

Project Type: NEW

Start Date (FYE): 2023

Department: 320132

Status: Active

Completion Date (FYE): 2024

Description:

Replacement of Fire Engine 23.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Engine 23 will be 15 years old in 2023. This is the point we consider replacement based on condition and maintenance costs. The Fire Department coordinates with Central Garage to determine appropriate replacement time.

Goals and Objectives

G 15
O 15.2

Alternative:

Use existing reserve, if mechanically sound, until such time as it needs to be replaced.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment					\$640,000			\$640,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$640,000	\$0	\$0	\$640,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$640,000			\$640,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$640,000	\$0	\$0	\$640,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating						\$4,566	\$4,795	\$9,361
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$4,566	\$4,795	\$9,361



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: TOWER REPLACEMENT

Project Code: TOWR

Project Priority: Priority 2

Project Type: NEW

Start Date (FYE): 2022

Department: 320132

Status: Active

Completion Date (FYE): 2023

Description:

Replacement of Tower apparatus.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Tower 2 (reserve apparatus) will be 25 years old in 2022. This is the point we consider replacement based on condition and maintenance costs. The Fire Department coordinates with Central Garage to determine appropriate replacement time. The current primary Tower (2013 model) would be moved to reserve status and the new Tower would become primary.

Goals and Objectives

- G 15
- O 15.2

Alternative:

Continue to use existing reserve apparatus until it is no longer functional.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment				\$1,270,000				\$1,270,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$1,270,000	\$0	\$0	\$0	\$1,270,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$1,270,000				\$1,270,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$1,270,000	\$0	\$0	\$0	\$1,270,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating					\$4,350	\$4,566	\$4,795	\$13,711
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$4,350	\$4,566	\$4,795	\$13,711



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: 9-1-1 System Replacement
Project Code: HRECC1
Project Priority: Priority 1 **Project Type:** REPLACEMENT **Start Date (FYE):** 2020
Department: 321132 **Status:** Active **Completion Date (FYE):** 2020

Description:

Replacement/upgrade to Next Generation 9-1-1 system.

Justifications:

- x-Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Planned replacement/upgrade to Next Generation 9-1-1 as part of the Commonwealth of Virginia statewide project.

Alternative:

The replacement/upgrade of the Next Generation 9-1-1 system will be required by the state. If not funded in the planned year, the only other option would be to delay the project to a time allowed by state.

Goals and Objectives

G 15
O 15.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$700,000						\$700,000
Other Expenses								\$0
Total	\$0	\$700,000	\$0	\$0	\$0	\$0	\$0	\$700,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$175,000						\$175,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants		\$350,000						\$350,000
Capital Project Fund								\$0
Other Revenue		\$175,000						\$175,000
Total	\$0	\$700,000	\$0	\$0	\$0	\$0	\$0	\$700,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Construct New ECC

Project Code: HRECC2

Project Priority: Priority 2

Project Type: REPLACEMENT

Start Date (FYE): 2021

Department: 321132

Status: Active

Completion Date (FYE): 2022

Description:

Plan, construct and equip a new Emergency Communications Center Building.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

The current facility was renovated in 2005 with a 10-15 year operational period. Operational, technical and administrative areas are at maximum capacity with no growth space possible.

Alternative:

Because of the human interface needed from an Operations standpoint, no alternatives are available.

Goals and Objectives

G 15
O 15.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning			\$100,000	\$150,000				\$250,000
Land			\$500,000					\$500,000
Construction				\$6,000,000				\$6,000,000
Equipment				\$2,000,000				\$2,000,000
Other Expenses								\$0
Total	\$0	\$0	\$600,000	\$8,150,000	\$0	\$0	\$0	\$8,750,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$300,000					\$300,000
Enterprise Revenue								\$0
Bond Proceeds				\$4,000,000				\$4,000,000
Grants				\$150,000				\$150,000
Capital Project Fund								\$0
Other Revenue			\$300,000	\$4,000,000				\$4,300,000
Total	\$0	\$0	\$600,000	\$8,150,000	\$0	\$0	\$0	\$8,750,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Replace Microwave Radio System
Project Code: HRECC3
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2021
Department: 321132 **Status:** Active **Completion Date (FYE):** 2021

Description:

Replace the Microwave radio system that links 11 radio sites and the ECC across the City and County.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Replaces obsolete equipment and 22 dish antennas. Equipment was originally planned for replacement in FY2018 but alternative parts were found; prolonging lifespan.

Alternative:

Run and lease dual fiber optic cables to each site. Cost is approximately \$55,000 per month for next 10-12 years.

Goals and Objectives

G 15
O 15.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning			\$100,000					\$100,000
Land								\$0
Construction			\$200,000					\$200,000
Equipment			\$2,000,000					\$2,000,000
Other Expenses			\$200,000					\$200,000
Total	\$0	\$0	\$2,500,000	\$0	\$0	\$0	\$0	\$2,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$1,250,000					\$1,250,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue			\$1,250,000					\$1,250,000
Total	\$0	\$0	\$2,500,000	\$0	\$0	\$0	\$0	\$2,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Renovation of Old Municipal Building
Project Code: MGR3
Project Priority: Priority 2 **Project Type:** RENOVATION **Start Date (FYE):** 2021
Department: 9101 **Status:** Active **Completion Date (FYE):** 2021

Description:

Renovation of building currently at 345 South Main Street.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- x-Other

Explanation:

This will provide renovations to the building for code compliance, energy efficiency, and additional work space for future administration and community use. Operating impacts are estimates based on \$4.50/sq. ft.

Alternative:

Maintain the building in its existing condition.

Goals and Objectives

- G 10
- O 10.3
- G 14
- O 18.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction	\$570,000		\$5,000,000					\$5,570,000
Equipment								\$0
Other Expenses								\$0
Total	\$570,000	\$0	\$5,000,000	\$0	\$0	\$0	\$0	\$5,570,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$570,000							\$570,000
Enterprise Revenue								\$0
Bond Proceeds			\$5,000,000					\$5,000,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$570,000	\$0	\$5,000,000	\$0	\$0	\$0	\$0	\$5,570,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating		\$93,600	\$95,500	\$97,400	\$99,400	\$101,400	\$103,400	\$590,700
Capital								\$0
Offsets								\$0
Total	\$0	\$93,600	\$95,500	\$97,400	\$99,400	\$101,400	\$103,400	\$590,700



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Harrison House Renovations

Project Code: MGR4

Project Priority: Priority 3

Project Type: RENOVATION

Start Date (FYE): 2015

Department: 9101

Status: Active

Completion Date (FYE): 2020

Description:

Renovate the Thomas Harrison House.

Justifications:

Mandated
Remove hazards
Maintains service
Increase efficiency
Increase revenues
Improves service
New service
Convenience
x-Other

Explanation:

Project includes research, archeological excavation, documentation and restoration of building, gardens, etc. to try to restore property as much as possible to "original" conditions.

Alternative:

Loss of significant historical property.

Goals and Objectives

G 10
O 10.3
O 18.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$282,500						\$282,500
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$282,500	\$0	\$0	\$0	\$0	\$0	\$282,500

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$282,500						\$282,500
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$282,500	\$0	\$0	\$0	\$0	\$0	\$282,500

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating		\$12,000	\$12,300	\$12,600	\$12,900	\$13,200	\$13,500	\$76,500
Capital								\$0
Offsets								\$0
Total	\$0	\$12,000	\$12,300	\$12,600	\$12,900	\$13,200	\$13,500	\$76,500



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Country Club Road (2) bridges (43372)

Project Code: PWSTBG03

Project Priority: Priority 2

Project Type: REPLACEMENT

Start Date (FYE): 2023

Department: 410241

Status: Active

Completion Date (FYE): Beyond

Description:

Replace (2) two bridges over Sieberts Creek. The first structure is #6586 and is located at the Superior Concrete entrance off of Country Club Road, and is planned to start in FY23. The second is structure #6585 and is located near Spotswood Trailer Park on Country Club Road, and is planned for Beyond.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve the condition rating of the structure, and improve drainage concerns in the immediate area.

Alternative:

Bridge structure #6586 may be replaced prior to beyond, due to the potential development of the Quarry property. If that development occurs, PW will work with the developer to replace this structure. With the development occurring, PW would request participation in the structure replacement cost.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning					\$400,000		\$500,000	\$900,000
Land						\$300,000	\$200,000	\$500,000
Construction							\$3,000,000	\$3,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$400,000	\$300,000	\$3,700,000	\$4,400,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$200,000	\$150,000	\$1,350,000	\$1,700,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants					\$200,000	\$150,000	\$1,850,000	\$2,200,000
Capital Project Fund								\$0
Other Revenue							\$500,000	\$500,000
Total	\$0	\$0	\$0	\$0	\$400,000	\$300,000	\$3,700,000	\$4,400,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Water Street Bridge

Project Code: PWSTBG09

Project Priority: Priority 2

Project Type: REPLACEMENT

Start Date (FYE): 2022

Department: 410241

Status: Active

Completion Date (FYE): 2024

Description:

Rebuild Water Street bridge over Norfolk Southern Railroad. Bridge owned by Norfolk Southern Railroad, cost of replacement would be the responsibility of Norfolk Southern Railroad.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Recommended by annual bridge inspection program. Funds by Railroad.
Bridge needed to provide emergency route east/west downtown with trains blocking grade crossings.

Alternative:

Reduce load rating on the structure and/or remove vehicle traffic from the structure.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$500,000				\$500,000
Land					\$1,000,000			\$1,000,000
Construction						\$2,000,000		\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$500,000	\$1,000,000	\$2,000,000	\$0	\$3,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue				\$500,000	\$1,000,000	\$2,000,000		\$3,500,000
Total	\$0	\$0	\$0	\$500,000	\$1,000,000	\$2,000,000	\$0	\$3,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Bridge Preventive Maintenance Program (43372)
Project Code: PWSTBM
Project Priority: Priority 1 **Project Type:** RENOVATION **Start Date (FYE):** 2011
Department: 410241 **Status:** Active **Completion Date (FYE):** ongoing

Description:

Preventive maintenance of bridge structures. Bridges are identified on a yearly basis following the Annual Bridge Inspections.

Justifications:

- x-Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Placing sealant on deck surface, repairing and sealing cracked concrete, painting as needed, repairing settled approach pavement and adjacent sidewalk repair. Preventive maintenance will extend bridge life approximately 25 years.

Alternative:

Delay preventive maintenance, which may result in more expensive repairs.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$60,000	\$60,000	\$65,000	\$65,000	\$70,000		\$320,000
Land								\$0
Construction		\$80,000	\$80,000	\$90,000	\$90,000	\$100,000		\$440,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$140,000	\$140,000	\$155,000	\$155,000	\$170,000	\$0	\$760,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$140,000	\$140,000	\$155,000	\$155,000	\$170,000		\$760,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$140,000	\$140,000	\$155,000	\$155,000	\$170,000	\$0	\$760,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Annual Curb & Gutter and Sidewalk Replacement
Project Code: PWSTCGSW
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** Ongoing
Department: 410241 **Status:** Active **Completion Date (FYE):** Ongoing

Description:

Replacement of curb & gutter and sidewalk segments throughout the City as determined by Public Works annual inspection process.

Justifications:

Mandated
 x-Remove hazards
 x-Maintains service
 Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Explanation:

Segments of curb & gutter and sidewalk are evaluated on an annual basis by Public Works staff to determine if replacement is needed. Condition rating is based on both safety and structural condition of the curb & gutter and sidewalk segments.

Alternative:

None.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$230,000	\$235,000	\$240,000	\$245,000	\$245,000		\$1,195,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$230,000	\$235,000	\$240,000	\$245,000	\$245,000	\$0	\$1,195,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$230,000	\$235,000	\$240,000	\$245,000	\$245,000		\$1,195,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$230,000	\$235,000	\$240,000	\$245,000	\$245,000	\$0	\$1,195,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Annual Street Paving Program (43374, 43376)
Project Code: PWSTPA1
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** Ongoing
Department: 410241 **Status:** Active **Completion Date (FYE):** Ongoing

Description:

Repaving of existing streets--132 centerline miles of street currently in inventory.

Justifications:

Mandated
 Remove hazards
 x-Maintains service
 x-Increase efficiency
 Increase revenues
 Improves service
 New service
 x-Convenience
 Other

Explanation:

Resurfacing to provide renewal to street surface, expected life of surface 15 years. Streets are scheduled in accordance with annual street pavement management program. Location, traffic volume, pavement conditions and use determine priority.

Alternative:

Use other types of surface seals, average life of plant mix overlay is 15 years. Seal coats usually last seven years maximum, however, they are less expensive.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$1,800,000	\$1,900,000	\$2,000,000	\$2,000,000	\$2,100,000		\$9,800,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$1,800,000	\$1,900,000	\$2,000,000	\$2,000,000	\$2,100,000	\$0	\$9,800,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$1,800,000	\$1,900,000	\$2,000,000	\$2,000,000	\$2,100,000		\$9,800,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$1,800,000	\$1,900,000	\$2,000,000	\$2,000,000	\$2,100,000	\$0	\$9,800,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: KEEZLETOWN RD & COUNTRY CLUB RD NEW TRAFFIC SIGNAL

Project Code: PWTELN01

Project Priority: Priority 3

Project Type: NEW

Start Date (FYE): Beyond

Department: 410741

Status: Active

Completion Date (FYE): Beyond

Description:

Install New Traffic signal @ Intersection of Country Club Road & Keezletown Road.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Required due to increased traffic volumes as development occurs along the Keezletown/Smithland Road corridor. Install traffic light and consider future expansion of Country Club Road. Developers will cost-share this project based on impact determined by a TIA.

Alternative:

None without construction of new streets to route traffic around area.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land							\$25,000	\$25,000
Construction							\$500,000	\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$525,000	\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: LIBERTY ST AND ACORN DR NEW TRAFFIC SIGNAL
Project Code: PWTELN02
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** 2024
Department: 410741 **Status:** Active **Completion Date (FYE):** 2024

Description:

North Liberty St. and Acorn Dr. Install a traffic signal with detection, and coordination.

Explanation:

Install a traffic signal when traffic warrants due to development in the area. It is anticipated that development would be required to cost-share the improvement.

Alternative:

Four Way stop.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land						\$25,000		\$25,000
Construction						\$500,000		\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$525,000	\$0	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue						\$525,000		\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$525,000	\$0	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Virginia Ave. and Acorn Dr. New Traffic Signal
Project Code: PWTELN03
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 410741 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Install new traffic signal at Virginia Ave. and Acorn Dr.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Install new traffic signal at Virginia Ave. and Acorn Dr. when development in the area warrants installation of signal. It is anticipated that developers will be required to cost-share this improvement.

Alternative:

None without construction of new streets to route traffic around area. Consider realigning w/VMRC entrance

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land							\$25,000	\$25,000
Construction							\$500,000	\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$525,000	\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Stone Spring Rd. & Ramblewood Rd. New Traffic Signal
Project Code: PWTELN04
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** 2022
Department: 410741 **Status:** Active **Completion Date (FYE):** 2022

Description:

Install a traffic Signal at Stone Spring Rd. & Ramblewood Rd. with detection and coordination.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Install a traffic Signal when traffic warrants are met due to development in the area.

Alternative:

None

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land				\$25,000				\$25,000
Construction				\$500,000				\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$525,000	\$0	\$0	\$0	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$525,000				\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$525,000	\$0	\$0	\$0	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: University Blvd. & Deyerle Ave. New Traffic Signal
Project Code: PWTELN05
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 410741 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Install a traffic Signal at University Blvd. & Deyerle Ave. with detection and Coordination.

Explanation:

Install a Traffic Signal when traffic warrants are met due to development in the area.

Alternative:

None.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land							\$25,000	\$25,000
Construction							\$500,000	\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$525,000	\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Mt. Clinton Pike & Technology Drive New Traffic Signal
Project Code: PWTELN06
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 410741 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Install a traffic Signal at Mt. Clinton Pike & Technology Drive with Detection and Coordination.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Install a traffic signal when traffic warrants are met due to development in the area. Planned development has provided required land and some infrastructure for new signal.

Alternative:

None.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land							\$25,000	\$25,000
Construction							\$500,000	\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$525,000	\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Mt Clinton Pike & Acorn Dr. New Traffic Signal
Project Code: PWTELN07
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 410741 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Install a traffic Signal at Mt Clinton Pike & Acorn Dr. with Detection and Coordination.

Explanation:

Install a traffic signal when traffic warrants are met due to development in the area.

Alternative:

None.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land							\$25,000	\$25,000
Construction							\$500,000	\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$525,000	\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Garbers Church/Bluestone ES New Traffic Signal
Project Code: PWTELN08
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 410741 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Install New Traffic signal at Intersection of Garbers Church Road/Bluestone Elementary School.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

The signal will be required based on increases in pedestrian volume at the schools in the area. Harrisonburg City Public Schools has participated in this project by installing all of the needed underground infrastructure.

Alternative:

Use of crossing guards and other pedestrian crossing signage.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction							\$350,000	\$350,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$350,000	\$350,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: EAST MARKET STREET AND RESERVOIR STREET TRAFFIC SIGNAL UPGRADE
Project Code: PWTELU01
Project Priority: Priority 3 **Project Type:** REPLACEMENT **Start Date (FYE):** 2020
Department: 410741 **Status:** Active **Completion Date (FYE):** 2020

Description:

East Market St. and Reservoir St. replace traffic signal poles with Decorative Black Powder Coated poles and arms to match streetscape project upgrades and equipment.

Justifications:

Mandated
 x-Remove hazards
 x-Maintains service
 x-Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Explanation:

1. Improves traffic signal
2. Replace old traffic signal span wire poles
3. Remove span wire and replace with mast arms
4. Need to obtain a 16 foot minimum clearance requirement

Alternative:

Keep and maintain existing infrastructure.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land		\$25,000						\$25,000
Construction		\$500,000						\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$525,000	\$0	\$0	\$0	\$0	\$0	\$525,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$525,000						\$525,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$525,000	\$0	\$0	\$0	\$0	\$0	\$525,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Traffic Management Equipment Program
Project Code: PWTEM01
Project Priority: Priority 2 **Project Type:** SYSTEM UPGRADE **Start Date (FYE):** 2016
Department: 410741 **Status:** Active **Completion Date (FYE):** ongoing

Description:

Transportation Management & traffic signal maintenance equipment for:

- 1) Collecting traffic data
- 2) Monitoring travel conditions
- 3) Remote maintenance of traffic signal vehicle detection system
- 4) Establishing network connections to traffic signal systems
- 5) Testing traffic signal conflict monitors

Justifications:

- x-Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Specific equipment includes:

- 1) Pneumatic tube traffic counters
- 2) Permanent traffic data collection stations
- 3) Traffic cameras for incident management and assessment of traffic & roadway conditions
- 4) Viewcom cards for remote access, configuration, and troubleshooting of vehicle detection systems
- 5) Networking equipment to establish communication to unconnected signalized intersections for remote programming and signal coordination
- 6) Conflict monitor test equipment used to certify proper operation of the devices that monitor for hardware faults at traffic signals. Testing of these devices is mandatory and a liability if not performed annually.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Traffic data is used for the development of signal timing updates, collection of corridor performance statistics, traffic signal warrant studies, street improvement planning, traffic calming studies, and other tasks. Remote access and configuration of the vehicle detection system saves signal crew time and helps resolve detection issues faster using remote troubleshooting. This equipment also provides access to video feeds from the vehicle detection cameras, which are used for traffic management.

Alternative:

Expend additional staff hours and equipment resources to perform piecemeal traffic studies. Use overtime hours to have staff troubleshoot video detection problems on-site during off hours instead of recording it using remote access and reviewing during working hours.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
Other Expenses								\$0
Total	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$250,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$250,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0



Operating									\$0
Capital									\$0
Offsets									\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

DRAFT



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Traffic Detection Cameras (Grid Smart)
Project Code: PWTEM02
Project Priority: Priority 2 **Project Type:** SYSTEM UPGRADE **Start Date (FYE):** 2020
Department: 410741 **Status:** Active **Completion Date (FYE):** 2026

Description:

Upgrade of video detection system utilized on traffic signals throughout the City. The upgraded system is GridSmart and provides increased functionality, with improved detection capabilities, real-time traffic counts, and improved communication interfaces.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Specific equipment includes:

- 1) Permanent traffic data collection stations.
- 2) Traffic cameras for incident management and assessment of traffic & roadway conditions.
- 3) Remote access and configuration of the vehicle detection system saves signal crew time and helps resolve detection issues faster using remote troubleshooting. This equipment also provides access to video feeds from the vehicle detection cameras, which are used for traffic management.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Alternative:

Expand operations with additional staff hours and equipment resources to perform piecemeal traffic studies. Use overtime hours to have staff troubleshoot video detection problems on-site during off hours instead of recording it using remote access and reviewing during working hours.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$139,000	\$170,000	\$156,000	\$170,000	\$122,000		\$757,000
Other Expenses								\$0
Total	\$0	\$139,000	\$170,000	\$156,000	\$170,000	\$122,000	\$0	\$757,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$139,000	\$170,000	\$156,000	\$170,000	\$122,000		\$757,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$139,000	\$170,000	\$156,000	\$170,000	\$122,000	\$0	\$757,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Traffic Signal Pole Anchor Bolts UT Inspection

Project Code: PWTEPBUT

Project Priority: Priority 1

Project Type: REPAIR

Start Date (FYE): 2022

Department: 410741

Status: Active

Completion Date (FYE): 2022

Description:

Ultra Sound testing of traffic signal pole anchor bolts for all of the 85 intersections consisting of 340 traffic signal poles.

Justifications:

- x-Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

VDOT/FHWA mandated inspection every four years to ensure that anchor bolts are not cracked or damaged. Inspections are needed to ensure safety of the public and liability. PW traffic engineering crews perform all remaining inspections of the traffic signal poles.

Alternative:

None

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses				\$75,000				\$75,000
Total	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$75,000				\$75,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$75,000	\$0	\$0	\$0	\$75,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: LED Illuminated Street Sign Program
Project Code: PWTESN01
Project Priority: Priority 3 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2020
Department: 410741 **Status:** Active **Completion Date (FYE):** 2022

Description:

To provide LED backlit street signs at signalized intersections on major street corridors.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- x-Convenience
- x-Other

Explanation:

To provide improved visibility and aesthetics of street signs at signalized intersections on major corridors. Street signs with a higher visibility can improve the overall safety of the roadway by reducing driver confusion. Program is currently at a 20% completion level.

Goals and Objectives

- G 13
- O 13.1

(2018)
S Main St & South Ave/
E Market St & MLK/E Market St & Mason St/S High St & MLK
S High St & Grace St/S High St & Maryland Av/S High St & South Av

(2019)
I-81 Ramp, & Covenant Dr/S Main St & Pleasant Valley Rd/University Blvd & Valley Mall/Burgess Rd & Harrisonburg Crossing/Evelyn Byrd Av & Burgess Rd/Reservoir St & Evelyn Byrd Av/Reservoir St & Harrisonburg Crossing

(2020)
W Market St & Dogwood Dr/W Market St & Waterman Dr/W Market St & Westfield Ct/W Market St, Garbers Church Rd, & Switchboard Rd/N Mason St & Gay St/N Mason St & Wolfe St/N Mason St & Elizabeth St/N Main St & Elizabeth St/N Main St & Wolfe St/N Main St & Gay St

(2021)
Early Rd & Pleasant Valley Rd/N Main St & N Mason St/N Main St & Washington St/N Main St, Vine St, & Mt Clinton Pk/Noll Dr & Gay St/W Market St & Liberty St/S Liberty St & Water St/S Liberty St & Bruce St/Neff Av & Evelyn Byrd Av/Garbers Church Rd & Erickson Av

(2022)
Garbers Church Rd & High School N Parking Lot/Garbers Church Rd & High School S Parking Lot/Virginia Av & Mt Clinton Pk/N Liberty St & Mt Clinton Pk/Cantrell Av & Reservoir St/Cantrell Av & Paul St
Linda Ln & Country Club Rd/Country Club Rd & Blue Ridge Dr/Vine St & Old Furnace Rd/Linda Ln & Skyline School/Warsaw St & Harrison St

Alternative:

Continue standard street sign program.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$50,000	\$50,000	\$50,000				\$150,000
Other Expenses								\$0
Total	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$150,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$50,000	\$50,000	\$50,000				\$150,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$50,000	\$50,000	\$50,000	\$0	\$0	\$0	\$150,000



Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

DRAFT



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: SUPPORT ADDITIONS PURCHASING /CENTRAL STORES

Project Code: PWCS1

Project Priority: Priority 3

Project Type: NEW

Start Date (FYE): 2023

Department: 772141

Status: Active

Completion Date (FYE): 2023

Description:

Expand existing building to provide weatherproof and safe storage for pipe and other materials. Central Stores continues to expand the scope of it's service to the various departments and finds itself needing more storage space for large items.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Expand existing building. Storage needed for larger (primarily PVC material) parts. Most large items are ordered for specific projects and stored until needed on project.

Alternative:

None.

Goals and Objectives

- G 14
- O 14.1
- O 14.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning					\$60,000			\$60,000
Land								\$0
Construction					\$340,000			\$340,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$400,000			\$400,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Renovations of Public Works Maintenance Shops (48181)
Project Code: PWSTB02
Project Priority: Priority 2 **Project Type:** RENOVATION **Start Date (FYE):** 2020
Department: 9101 **Status:** Active **Completion Date (FYE):** 2021

Description:

Over the past 5 years, Public Works has seen significant growth within the administrative functions of the department. Within that time period, the Stormwater Management division has been created which added 3 FTE's as well as the growth of the Construction Management Team (CMT), which added 7 FTE's to the department. The current office at Public Works is in need of updating from an HVAC and building comfort standpoint. Funds are being planned in FY20 for the development of an achievable renovation project that will both improve the HVAC and building comfort, as well as attempt to maximize the usable space for our operations. FY21 includes planning funds to enact the recommended renovations to the existing facility. Anticipated renovation cost of \$50/sf was used to develop this planning estimate.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- x-Convenience
- Other

Explanation:

Improve HVAC systems, improve building comfort for all employees, and improved utilization of current office space.

Goals and Objectives

G 14

Alternative:

Find a new location for the Public Works operations.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$120,000						\$120,000
Land								\$0
Construction			\$600,000					\$600,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$120,000	\$600,000	\$0	\$0	\$0	\$0	\$720,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$120,000	\$600,000					\$720,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$120,000	\$600,000	\$0	\$0	\$0	\$0	\$720,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: New Public Works Facility
Project Code: PWSTB03
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** Beyond
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Construction of a new Public Works Facility located in the City. Initial phase of work would be to conduct a needs / space assessment for both maintenance and administration functions. Following assessment completion determine siting location and proceed into design of new facility. Project ending in construction of new facility and relocation of all Public Works personnel and equipment. It should be noted that if the Sentara RMH Wellness Center complex is placed on the market for sale, the City should consider purchasing this facility for expanded Public Works, Public Utilities, and Parks and Recreation operations. Public Works and Public Utilities will share a common customer service center and administrative offices, and Parks and Recreation could utilize the wellness center for their east side of the City facility.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- x-Convenience
- Other

Explanation:

Both the East Mosby and Park View shop locations of Public Works have limitations for operational efficiency in both administration and maintenance areas. The existing office space does not provide sufficient space for current Public Works staff and sharing of offices is required. Maintenance areas are limited in size and do not provide adequate space for maintenance of small equipment and traffic related equipment and materials. Exposure to the flood plain is a significant challenge due to the nature of Public Works operations (salt, brine, fueling, misc. material storage, etc), and with the new MS4 regulations non-stormwater discharges are becoming more significant of a challenge. Marketing of East Mosby and Park View facilities to adjacent property owners is an option to consider.

Goals and Objectives

G 14

Alternative:

Renovation of existing facility, or purchase property and facilities that will provide needs determined during needs / space assessment.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$1,000,000	\$1,000,000
Land							\$3,000,000	\$3,000,000
Construction							\$11,000,000	\$11,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000,000	\$15,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds							\$13,400,000	\$13,400,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue							\$1,600,000	\$1,600,000
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000,000	\$15,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: DOWNTOWN STREETScape PROJECT

Project Code: PWSTP01

Project Priority: Priority 3

Project Type: REPLACEMENT

Start Date (FYE): 2015

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

This project is part of the Harrisonburg Downtown Streetscape Plan. Cost of utility work is not included. Phase III Streetscape will include Elizabeth Street to Wolfe Street. Phase IV Streetscape will include improvements to Water Street between Main Street and Liberty Street. Transportation Alternative Program (TAP) grant funds would be sought to fund this project.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- x-Convenience
- Other

Explanation:

Replace curb, gutter, and sidewalks, install enhanced crosswalks, replace lighting, install benches, waste receptacles, replace traffic signals, traffic regulatory signage, and landscaping as needed throughout the project.

Goals and Objectives

Alternative:

Maintain existing sidewalks and brick pavers.

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$200,000				\$300,000			\$500,000
Land								\$0
Construction	\$1,350,000						\$1,800,000	\$3,150,000
Equipment								\$0
Other Expenses								\$0
Total	\$1,550,000	\$0	\$0	\$0	\$300,000	\$0	\$1,800,000	\$3,650,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$470,000				\$60,000		\$360,000	\$890,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants	\$1,080,000				\$240,000		\$1,440,000	\$2,760,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$1,550,000	\$0	\$0	\$0	\$300,000	\$0	\$1,800,000	\$3,650,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CARPENTER LN./ PIKE CHURCH RD. REALIGNMENT
Project Code: PWSTP02
Project Priority: Priority 3 **Project Type:** IMPROVEMENT **Start Date (FYE):** Beyond
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Realign Carpenter Ln. with intersection of Pike Church Rd. and S. Main St.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

To improve safety and planned future signalization of Pike Church Rd. and S. Main St.

Alternative:

Close Carpenter Ln.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$250,000	\$250,000
Land							\$300,000	\$300,000
Construction							\$2,000,000	\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$2,550,000	\$2,550,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$2,550,000	\$2,550,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$2,550,000	\$2,550,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: PLEASANT VALLEY ROAD

Project Code: PWSTP03

Project Priority: Priority 3

Project Type: REPLACEMENT

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Improve street from S. Main St. to City Limits to better accommodate truck traffic to industrial areas and relocated Rockingham County Landfill entrance; the project will include a center turn lane, wider lanes, bicycle and pedestrian facilities, storm drain system and improved turning radii at intersections.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve drainage, replace pipe culverts, improve pavement, rebuild shoulders. Funding is planned to be 100% General Fund for design, and VDOT SmartScale for R/W and Construction.

Alternative:

Build alternative new roadway as shown in Street Improvement Plan.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$750,000	\$750,000
Land							\$2,500,000	\$2,500,000
Construction							\$5,000,000	\$5,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,250,000	\$8,250,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$8,250,000	\$8,250,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,250,000	\$8,250,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: South Main Street (48718)
Project Code: PWSTP05
Project Priority: Priority 2 **Project Type:** ADDITION **Start Date (FYE):** 2023
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Widen South Main Street to a 5-lane arterial street from Pleasant Valley Road to South City Limits. Improve the intersection of S. Main St. & Covenant Dr.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve to 5-lane street to improve traffic flow and safety. Partial funds from development.

Alternative:

Maintain existing lanes and infrastructure.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning					\$1,000,000			\$1,000,000
Land							\$5,000,000	\$5,000,000
Construction							\$8,000,000	\$8,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$13,000,000	\$14,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants					\$1,000,000		\$13,000,000	\$14,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$1,000,000	\$0	\$13,000,000	\$14,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CHICAGO AVE./ MT. CLINTON PIKE/ PARK RD. ROUNDABOUT

Project Code: PWSTP06

Project Priority: Priority 2

Project Type: IMPROVEMENT

Start Date (FYE): 2016

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Improve intersection of Chicago Ave., Mt. Clinton Pike, and Park Rd. to include a roundabout and improvements along Mt. Clinton Pike from the roundabout east to Virginia Ave. with bicycle facilities, pedestrian facilities, stormwater management system. Public involvement meeting in April 2011 indicated strong support for roundabout opposed to other traffic control methods at this intersection. Currently, VDOT Revenue Sharing is being used to fund portions of this project. Remaining funds will be sought through VDOT's Smart Scale grant program.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Currently, Chicago Ave. and Park Rd. intersect with Mt. Clinton Pike at an offset intersection causing a safety hazard. This project will improve safety with the installation of a roundabout. A partnership with Eastern Mennonite University is planned to assist in completing the project. Reconstructed Mt. Clinton Pike will be 2 lanes in each direction with center turn lanes. A sidewalk is planned for the south side of the roadway, with a shared use path along the north side.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Alternative:

Install an offset signalized intersection.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$1,129,240							\$1,129,240
Land						\$5,449,334		\$5,449,334
Construction							\$6,063,099	\$6,063,099
Equipment								\$0
Other Expenses								\$0
Total	\$1,129,240	\$0	\$0	\$0	\$0	\$5,449,334	\$6,063,099	\$12,641,673

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$564,620					\$185,380		\$750,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants	\$564,620					\$5,263,954	\$6,063,099	\$11,891,673
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$1,129,240	\$0	\$0	\$0	\$0	\$5,449,334	\$6,063,099	\$12,641,673

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CHICAGO AVENUE IMPROVEMENTS

Project Code: PWSTP06A

Project Priority: Priority 2

Project Type: IMPROVEMENT

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Widen Chicago Avenue from Mt. Clinton Pike to 3rd St. to two lanes with center turn lanes, install sidewalk, curb and gutter, and bike lanes.

Requires major storm drain system construction from Mt. Clinton Pike to Waterman Drive and along Waterman Drive to West Market Street.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Project to improve traffic flow between Mt. Clinton Pike and Gay St. and Waterman Drive. The project will assist traffic movement from West Market Street to Virginia Avenue.

Alternative:

Use existing insufficient facilities.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$750,000	\$750,000
Land							\$5,000,000	\$5,000,000
Construction							\$7,500,000	\$7,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$13,250,000	\$13,250,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue							\$2,000,000	\$2,000,000
Bond Proceeds							\$11,250,000	\$11,250,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$13,250,000	\$13,250,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: MT. CLINTON PIKE WIDENING

Project Code: PWSTP06B

Project Priority: Priority 3

Project Type: IMPROVEMENT

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Improve Mt. Clinton Pike to a two-lane facility with a center turn lane and bicycle/pedestrian facilities, between Chicago Avenue and Lincolnshire Drive in Rockingham County. Requires retaining wall from Smith Street to west City Limits.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Street Improvements to provide safer travel and accommodate future growth in Park View area.

Alternative:

Maintain existing lanes and infrastructure while maintaining the existing unsafe features.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$500,000	\$500,000
Land							\$3,000,000	\$3,000,000
Construction							\$5,000,000	\$5,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,500,000	\$8,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$8,500,000	\$8,500,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,500,000	\$8,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: NORTH LIBERTY STREET (48294)
Project Code: PWSTP08
Project Priority: Priority 3 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** Beyond
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Reconstruct and widen North Liberty Street from Edom Road to the North City Limits. Install storm drains, curb & gutter, bicycle lanes & sidewalks or shared use path.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improvement to the roadway is to serve industrial and commercial development in the area. Several developments depend on truck transportation for their businesses along this street. Street improvements will support existing and future development.

Alternative:

Maintain existing infrastructure.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$500,000	\$500,000
Land							\$1,000,000	\$1,000,000
Construction							\$3,500,000	\$3,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$5,000,000	\$5,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CARLTON STREET IMPROVEMENT
Project Code: PWSTP09
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2024
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Improve Carlton St. between E. Market St. and Reservoir St. to a two-lane facility with a center turn lane. Includes sidewalks and storm drain facilities.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

To improve the transportation network in an area with high pedestrian volumes near an elementary school with inadequate facilities.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Alternative:

None.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning						\$127,125		\$127,125
Land							\$124,964	\$124,964
Construction							\$655,900	\$655,900
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$127,125	\$780,864	\$907,989

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants						\$127,125	\$780,864	\$907,989
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$127,125	\$780,864	\$907,989

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: BLUESTONE TRAIL

Project Code: PWSTP11

Project Priority: Priority 2

Project Type: NEW

Start Date (FYE): 2016

Department: 9101

Status: Active

Completion Date (FYE): 2022

Description:

Phase I: Complete

Phase II: Provide pedestrian/bike connection between Wellness Drive and Ramblewood Park. Potential connection to the new High School site could be included in this phase. VDOT Revenue Sharing is anticipated for funding of this project.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- x-Convenience
- Other

Explanation:

Will allow people living in university housing developments and multi-family developments in the southern end of the city to reach destinations by alternative means of transportation, that is separated from motor vehicle traffic.

Goals and Objectives

Alternative:

End the project/do not complete.

G 13
O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$200,000		\$500,000					\$700,000
Land								\$0
Construction	\$1,125,000			\$3,000,000				\$4,125,000
Equipment								\$0
Other Expenses								\$0
Total	\$1,325,000	\$0	\$500,000	\$3,000,000	\$0	\$0	\$0	\$4,825,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$675,000		\$250,000	\$1,500,000				\$2,425,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants	\$650,000		\$250,000	\$1,500,000				\$2,400,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$1,325,000	\$0	\$500,000	\$3,000,000	\$0	\$0	\$0	\$4,825,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: GREENDALE ROAD 910141-48666

Project Code: PWSTP12

Project Priority: Priority 3

Project Type: ADDITION & REPLACEMENT

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Relocate Greendale Road through Emswiler Property to connect with Pleasant Valley Road near Tenneco. Three lane roadway with sidewalks, bicycle lanes and/or shared use paths and bridge over railroad.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improves traffic flow from Route 11 to the eastern part of the city, and avoids road widening through residential areas. Partial funds from private business.

Alternative:

None.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$1,000,000	\$1,000,000
Land							\$2,000,000	\$2,000,000
Construction							\$9,500,000	\$9,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500,000	\$12,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$12,500,000	\$12,500,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$12,500,000	\$12,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: East Market Street - Exit 247 Improvements MLK to Burgess
Project Code: PWSTP13
Project Priority: Priority 2 **Project Type:** CONSTRUCTION **Start Date (FYE):** 2018
Department: 9101 **Status:** Active **Completion Date (FYE):** 2023

Description:

East Market St. MLK Jr. Way to Burgess Rd. and includes the reconstruction of Exit 247 and the four (4) VDOT bridge structures located in this section. The improvements to Exit 247 include increased acceleration and deceleration lanes on East Market and relocated I-81 NB on ramp off of Rt 33 East, spur ramp to the NB off ramp, extension of the left turn lane onto Linda Lane, and installation of dividing median between the left turn lane and main line East Market Street. Installation of sidewalks is included from MLK Jr. Way to Burgess Road. Shared use path will be constructed from Burgess Road to MLK Way, in the median.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Provides improvements to Exit 247 and East Market St. as outlined in the recently completed I-81 Exit 245 and 247 Interchange Alternatives Analysis performed by VDOT, HRMPO, and the City. As well as making improvements to the NB off ramp and left turn lanes onto Linda Lane.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Alternative:

Decrease scope of project into smaller phases.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$725,000				\$725,000
Land								\$0
Construction		\$25,423,901	\$25,423,901		\$6,000,000			\$56,847,802
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$25,423,901	\$25,423,901	\$725,000	\$6,000,000	\$0	\$0	\$57,572,802

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants				\$725,000	\$6,000,000			\$6,725,000
Capital Project Fund								\$0
Other Revenue		\$25,423,901	\$25,423,901					\$50,847,802
Total	\$0	\$25,423,901	\$25,423,901	\$725,000	\$6,000,000	\$0	\$0	\$57,572,802

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: UNIVERSITY BLVD & EVELYN BYRD - SIDEWALK
Project Code: PWSTP14
Project Priority: Priority 2 **Project Type:** CONSTRUCTION **Start Date (FYE):** 2024
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Construct new sidewalks on University Blvd. from Reservoir St. to E. Market St, and on Evelyn Byrd Ave. from Reservoir St to E. Market St. This project will also include a road diet on University Blvd and Evelyn Byrd Ave.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Sidewalks on University Blvd. and Evelyn Byrd Ave. would provide access for pedestrians to commercial businesses and restaurants along the corridor. These sidewalks will also provide a connection between existing sidewalks on Reservoir St. and new sidewalks on E. Market St. Sidewalks would also provide improved access for pedestrians to existing bus stops.

Alternative:

None.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning						\$250,000		\$250,000
Land							\$1,192,641	\$1,192,641
Construction							\$1,267,124	\$1,267,124
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$250,000	\$2,459,765	\$2,709,765

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants						\$250,000	\$2,459,765	\$2,709,765
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$250,000	\$2,459,765	\$2,709,765

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: STONE SPRING ROAD/ERICKSON AVENUE CONNECTOR 48636&48637
Project Code: PWSTP16
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** 2009
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Improvements to the existing intersection of Erickson Ave. and Garbers Church Road. Improvements would add right and left turn lanes on Erickson Ave., sidewalks, and bike lanes within ~400 of the intersection. The existing traffic signal would be reconstructed to accommodate the additional turn lanes.

A future phase of this project would be to widen Erickson Ave. from South High Street to the West City Limits.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve the existing intersection of Erickson Ave. and Garbers Church Road will help in alleviating the congestion experienced at this intersection during peak times.

Goals and Objectives

Alternative:

Do not complete planned project.

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$7,424,769					\$647,519		\$8,072,288
Land	\$6,662,164							\$6,662,164
Construction	\$37,014,206						\$2,711,628	\$39,725,834
Equipment								\$0
Other Expenses								\$0
Total	\$51,101,139	\$0	\$0	\$0	\$0	\$647,519	\$2,711,628	\$54,460,286

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$27,289,586							\$27,289,586
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants						\$647,519	\$2,711,628	\$3,359,147
Capital Project Fund								\$0
Other Revenue	\$23,811,553							\$23,811,553
Total	\$51,101,139	\$0	\$0	\$0	\$0	\$647,519	\$2,711,628	\$54,460,286

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: PORT REPUBLIC ROAD
Project Code: PWSTP19
Project Priority: Priority 3 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2020
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:
 Street improvements to Port Republic Road between Forest Hills Drive and Devon Lane.

Justifications:
 Mandated
 x-Remove hazards
 Maintains service
 x-Increase efficiency
 Increase revenues
 x-Improves service
 New service
 x-Convenience
 Other

Explanation:
 Improve the Port Republic Road corridor to increase safety, improve maneuvering, and expand capacity in the vicinity of James Madison University. To include a fifth lane between Forest Hill Road and Devon Lane as well as intersection realignment/improvement where deemed necessary by traffic analysis. Also, will include additional bicycle and pedestrian accommodations.

Alternative:
 Maintain existing infrastructure and lanes.

Goals and Objectives

 G 13
 O 13.1
 O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$500,000						\$500,000
Land				\$1,500,000				\$1,500,000
Construction				\$3,500,000				\$3,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$500,000	\$0	\$5,000,000	\$0	\$0	\$0	\$5,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants		\$500,000		\$5,000,000				\$5,500,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$500,000	\$0	\$5,000,000	\$0	\$0	\$0	\$5,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: Martin Luther King Jr Way Widening

Project Code: PWSTP20

Project Priority: Priority 2

Project Type: IMPROVEMENT

Start Date (FYE): 2016

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Martin Luther King Jr Way from 300' west of Ott Street intersection to 450' east of Ott Street. Widen street to 5 lanes to create dedicated left turn lane at Ott Street intersection.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Project to provide improved capacity and turn lanes for JMU campus at the time of JMU campus expansion beyond the current foot print. Improves efficiency of bicycle & pedestrian safety. Project to be developed cooperatively with JMU.

Alternative:

Maintain existing infrastructure and lanes.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$375,000						\$300,000	\$675,000
Land	\$125,000						\$125,000	\$250,000
Construction	\$2,800,000						\$3,000,000	\$5,800,000
Equipment								\$0
Other Expenses								\$0
Total	\$3,300,000	\$0	\$0	\$0	\$0	\$0	\$3,425,000	\$6,725,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$500,000							\$500,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants	\$2,800,000						\$3,150,000	\$5,950,000
Capital Project Fund								\$0
Other Revenue							\$275,000	\$275,000
Total	\$3,300,000	\$0	\$0	\$0	\$0	\$0	\$3,425,000	\$6,725,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: EAST MARKET STREET - SAFETY IMPROVEMENT PROGRAM - 910141-48619
Project Code: PWSTP21
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2020
Department: 9101 **Status:** Active **Completion Date (FYE):** 2020

Description:

Improvement to turning lanes, cross-overs, pedestrians access from Linda Lane to Chestnut Ridge Drive. Install sidewalks and pedestrian crosswalks. Implement strategies developed during VDOT's STAR study of the East Market St corridor.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Due to increased traffic and development in this area improvements must be made to accommodate traffic and pedestrians. Traffic volumes in this area equal to the counts on I-81.

Alternative:

Build new streets around area. Apply for Transportation Alternatives Program Grant, Highway Safety Improvement Grant, or SmartScale grants. Include part of the improvements in development plans for commercial development of the area.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$30,000						\$30,000
Land								\$0
Construction		\$170,000						\$170,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants		\$200,000						\$200,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0	\$200,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: NEFF AVENUE IMPROVEMENTS
Project Code: PWSTP23
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** Beyond
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Widen Neff Avenue between Port Republic Road and Sunchase Court to include median with turn lanes in anticipation of further JMU development of the athletic complex.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- x-Convenience
- x-Other

Explanation:

Need to provide turning lanes at the athletic complex entrances and control access along Neff Avenue.

Alternative:

Restrict Access to and from Neff Avenue.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$400,000	\$400,000
Land								\$0
Construction							\$2,000,000	\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$2,400,000	\$2,400,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$2,000,000	\$2,000,000
Capital Project Fund								\$0
Other Revenue							\$400,000	\$400,000
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$2,400,000	\$2,400,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: COUNTRY CLUB ROAD 910141-48656

Project Code: PWSTP25

Project Priority: Priority 3

Project Type: IMPROVEMENT

Start Date (FYE): 2024

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Phase I Country Club Road (Formerly MLK Way Extension) (FY23-Beyond)- MLK Way Extended to Country Club Road, which includes the construction of a Transit Transfer Center and park & ride facility, and adjustments to the Country Club Road at Vine Street intersection. Roadway will be 2 lanes with center turn lane, sidewalk and shared use path.

Phase II Country Club Road (Beyond)- I-81 Bridges to East Market St. at Valley Mall. Widen roadway to 2-lanes with turn lanes at intersections of Keezletown Rd. Install sidewalk and shared use path.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Project to improve traffic flow, provide improved left turn lanes, reduce delays, and improve transit operations. Improve drainage ditch parallel to the roadway. Project to be built in phases to coordinate with development and VDOT I-81 Bridge replacement schedule.

Goals and Objectives

- G 13
- O 13.1
- O 13.2
- O 13.3

Alternative:

Allow increased traffic to deal with delays.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning						\$1,607,552		\$1,607,552
Land							\$3,208,675	\$3,208,675
Construction							\$14,962,386	\$14,962,386
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$1,607,552	\$18,171,061	\$19,778,613

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants						\$1,607,552	\$18,171,061	\$19,778,613
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$1,607,552	\$18,171,061	\$19,778,613

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: VIRGINIA AVE. - GAY ST. TO 5TH ST.

Project Code: PWSTP27

Project Priority: Priority 2

Project Type: IMPROVEMENT

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Relocate curb and gutter to widen street between Gay St. and 5th St. Replace storm drain system, improve alleys and parking areas behind homes to remove on-street parking from Virginia Ave. and repave and mark pavement to a 4-lane facility with a center turn lane.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Project to improve traffic flow. Traffic counts justify 4 lanes with a center turn lane. This will complete 4 laning of Virginia Ave., High St. (Rte. 42)through Harrisonburg.

Alternative:

NONE: Traffic counts warrant four lanes.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$500,000	\$500,000
Land							\$1,000,000	\$1,000,000
Construction							\$2,500,000	\$2,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$4,000,000	\$4,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000	\$4,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: LINDA LANE WIDENING 910141-48696
Project Code: PWSTP28
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2024
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Construct five-lane facility, including a center turn lane, sidewalk, shared use path with curb and gutter, from East Market Street to Country Club Road. Developer participation in construction from the Quarry development.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Provide adequate access to new planned developments.

Alternative:

Use existing insufficient facilities.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning						\$300,000		\$300,000
Land							\$500,000	\$500,000
Construction							\$2,000,000	\$2,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$300,000	\$2,500,000	\$2,800,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants						\$300,000	\$2,500,000	\$2,800,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$300,000	\$2,500,000	\$2,800,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: SMITHLAND ROAD
Project Code: PWSTP28A
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2023
Department: 9101 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Construct 2-Lane street with turn lanes, sidewalks, curb & gutter, bicycle lanes or shared use path, and raised median from the intersection of Linda Lane extended to Old Furnace Road at I-81.

Justifications:

Mandated
 Remove hazards
 x-Maintains service
 x-Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Explanation:

Project to provide east-west travel way from the commercial area east of I-81 to the industrial area in the Northwest section of the City and adjoining Rockingham County Technology Park.

Alternative:

Use existing insufficient facilities.

Goals and Objectives

G 13
 O 13.1
 O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning					\$500,000			\$500,000
Land							\$1,000,000	\$1,000,000
Construction							\$3,000,000	\$3,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$500,000	\$0	\$4,000,000	\$4,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants					\$500,000		\$4,000,000	\$4,500,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$500,000	\$0	\$4,000,000	\$4,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: MT. CLINTON PIKE EAST EXTENDED

Project Code: PWSTP29

Project Priority: Priority 3

Project Type: NEW

Start Date (FYE): Beyond

Department: 9101

Status: Active

Completion Date (FYE): Beyond

Description:

Construct 5-lane street with sidewalks, curb & gutter, bicycle lanes or shared use path, from the intersection of North Main Street & Mt. Clinton Pike to the intersection of Smithland Road & Old Furnace Road.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Project to provide east-west travel way from the commercial area east of I-81 to the industrial area in the northwest section of the city. Partner w/Rockingham County and VDOT on design, alignment and construction.

Alternative:

Improve Vine Street connection to Country Club Road.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$1,200,000	\$1,200,000
Land							\$3,000,000	\$3,000,000
Construction							\$6,000,000	\$6,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$10,200,000	\$10,200,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants							\$10,200,000	\$10,200,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$10,200,000	\$10,200,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Northend Greenway

Project Code: PWSTP37

Project Priority: Priority 2

Project Type: ADDITION

Start Date (FYE): 2014

Department: 9101

Status: Active

Completion Date (FYE): beyond

Description:

Construct a 10' wide multiuse path along Blacks Run between Parkview area and North Main Street.

Justifications:

Mandated
 x-Remove hazards
 Maintains service
 Increase efficiency
 Increase revenues
 Improves service
 x-New service
 Convenience
 Other

Explanation:

The project follows the approximate trace of the former Blacks Run Greenway alignment. Currently, Phase 1 is funded and will construct the NEG from Mt. Clinton Pike to the intersection of Liberty Street and Suter Street. Phase 2 is not currently funded and will construct the trail from Suter Street to North Main Street.

Alternative:

Do not complete planned project.

Goals and Objectives

G 13
 O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$205,000						\$205,000	\$410,000
Land	\$200,000						\$200,000	\$400,000
Construction	\$895,000						\$895,000	\$1,790,000
Equipment								\$0
Other Expenses								\$0
Total	\$1,300,000	\$0	\$0	\$0	\$0	\$0	\$1,300,000	\$2,600,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$700,000						\$700,000	\$1,400,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants	\$600,000						\$600,000	\$1,200,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$1,300,000	\$0	\$0	\$0	\$0	\$0	\$1,300,000	\$2,600,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: North Main Street Sidewalk
Project Code: PWSTP38
Project Priority: Priority 2 **Project Type:** ADDITION **Start Date (FYE):** Prior
Department: 9101 **Status:** Active **Completion Date (FYE):** 2021

Description:

Construct sidewalk and curb/gutter on North Main Street from Charles Street to Vine Street. Include a sidewalk to Harris Gardens Apartment Complex on Vine Street.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Provide connection to an income-based housing complex where residents rely on alternative transportation to access shopping in the downtown area. Consider CDBG to finance a portion of the project.

Goals and Objectives

G 13
O 13.2

Alternative:

Do not build the sidewalk and wait for private development or redevelopment to occur, which the Design and Construction Standards Manual will then require the private developer to provide the sidewalk improvements.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$250,000							\$250,000
Land			\$50,000					\$50,000
Construction			\$950,000					\$950,000
Equipment								\$0
Other Expenses								\$0
Total	\$250,000	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$1,250,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue	\$250,000							\$250,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants			\$1,000,000					\$1,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$250,000	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$1,250,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Reservoir Street Sidewalk
Project Code: PWSTP40
Project Priority: Priority 2 **Project Type:** ADDITION **Start Date (FYE):** 2021
Department: 9101 **Status:** Active **Completion Date (FYE):** 2023

Description:

Construct five-foot sidewalk on north side of Reservoir Street between the Harrisonburg Crossing entrance and Martin Luther King Jr. Way.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Pedestrians utilize the north side of Reservoir Street heavily and have worn a path along the side the road. While a sidewalk exists on the south side of the roadway, residential communities are on the north side of the roadway and pedestrians walk on this side of the street to gain access to shopping areas east of I-81.

Alternative:

Continue to have pedestrians walking between the curb of a 4-lane facility and its guardrail, and down a steep slope to reach Harrisonburg Crossing. Wait for redevelopment to occur at Harrisonburg Crossing and on the north side of the I-81, at which time the developer would be required by the Design and Construction Standards Manual to build the sidewalk.

Goals and Objectives

- G 13
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning			\$100,000					\$100,000
Land				\$100,000				\$100,000
Construction					\$500,000			\$500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$100,000	\$100,000	\$500,000	\$0	\$0	\$700,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants			\$100,000	\$100,000	\$500,000			\$700,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$100,000	\$100,000	\$500,000	\$0	\$0	\$700,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: SOUTH MAIN STREET ACCESS MANAGEMENT

Project Code: PWSTP42

Project Priority: Priority 3

Project Type: IMPROVEMENT

Start Date (FYE): 2022

Department: 9101

Status: Active

Completion Date (FYE): 2023

Description:

Access management, safety, and bike/ped improvements from Port Republic Road to Pleasant Valley Road, as informed by traffic study and stakeholder involvement.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve safety and efficiency on S. Main St.

Alternative:

Opportunities to phase the project.

Goals and Objectives

G 13
O 13.1

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$500,000				\$500,000
Land								\$0
Construction					\$4,500,000			\$4,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$500,000	\$4,500,000	\$0	\$0	\$5,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants				\$500,000	\$4,500,000			\$5,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$500,000	\$4,500,000	\$0	\$0	\$5,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: UNIVERSITY BLVD RELOCATION

Project Code: PWSTP43

Project Priority: Priority 2

Project Type: IMPROVEMENT

Start Date (FYE): 2021

Department: 9101

Status: Active

Completion Date (FYE): 2023

Description:

Relocate University Blvd between Forest Hill Road and Driver Drive. Includes construction of shared use path, reconfiguration of neighborhood street connections, and coordination with JMU on old convocation center parking lot access.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Improve safety and efficiency of this connection. Provide a more direct connection between I-81, Port Republic Road, and Reservoir Street.

Alternative:

None.

Goals and Objectives

- G 13
- O 13.1
- O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning			\$500,000					\$500,000
Land				\$500,000				\$500,000
Construction					\$5,000,000			\$5,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$500,000	\$500,000	\$5,000,000	\$0	\$0	\$6,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$250,000	\$250,000	\$2,500,000			\$3,000,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants			\$250,000	\$250,000	\$2,500,000			\$3,000,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$500,000	\$500,000	\$5,000,000	\$0	\$0	\$6,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: Purcell Park Playground Improvement Program
Project Code: P&R 19-1
Project Priority: Priority 2 **Project Type:** RENOVATION **Start Date (FYE):** 2020
Department: 710271 **Status:** Active **Completion Date (FYE):** 2021

Description:

Purcell Park is one of the oldest parks within the City. The first parcels were purchased beginning in 1954. Over time the park has grown in terms of acreage, amenities and number of users. The history is long and the love for this park is shared by residents of this community. One of the highlights of Purcell Park is "Kids Castle". This structure was constructed as a community build project in 1990. The work was completed by volunteers of the community. These individuals invested their personal time and talents to provide this amenity to our kids.

We recently contacted the manufacturer of Kid's Castle who informed us that they are no longer making wooden play structures and that the typical life-span of our current structure is 20 years. Kid's Castle just "celebrated" 28 years in service to the youth of our community.

Explanation:

Kids Castle Playground located in Purcell Park, while beloved by our community, has reached the end of its useful life. Having a Certified Playground Safety Inspector (CPSI) on staff allows us to inspect our playgrounds in order to adhere to the national standards outlined in the Consumer Product Safety Commission Public Playground Safety Handbook, one source of information for CPSI certification.

Inspections of Kids Castle reveal its deterioration and resulting safety concerns. Age, weather and wear and tear typically cause wooden play structures to be replaced well before the recommended 20 years - replacement being an investment and the responsibility of local Park and Recreation Department to meet their goal of providing safe facilities for the community to enjoy.

As our CPSI has inspected Kids Castle Priority 1 Safety Concerns have been identified. According to the CPSI Handbook, a P1 Safety Concern is "Non-Compliant safety concern that may result in permanent disability, loss of life or body part. Condition should be corrected immediately."

Most of the deficiencies are Entanglement or Head Entrapment Hazards. As one can imagine, these types of hazards can lead to strangulation and death.

Kids Castle also lacks accessibility. Children, who have mobility challenges are limited in their ability to access, utilize and play on Kids Castle. There are no accessible routes to the playground, no transition platforms and no features that a child with any type of disability could enjoy. Bringing this playground up to meet ADA standards is also a major priority.

Kids Castle has been in place since 1990 (28 Years!!!). The manufacturer has stated that these playgrounds have a usable lifespan of 20 years. We can continue to replace/refill surfacing and remove pieces of the wooden structure that are no longer safe, but a full replacement is the professional recommendation of the Parks and Recreation Department.

Funding is available in FY19 to hire a consultant to engage the community in the redevelopment and design of a new Kids Castle - a Kids Castle to be enjoyed, safely, for the next 20 years. The consultant will also develop a master redevelopment plan for all of Purcell Park to address other needs least of which are new, accessible restrooms.

Alternative:

The only reasonable, responsible alternative is to replace Kid's Castle.

However, if no action is taken the Parks and Recreation Department will begin to remove hazards to the structure. Delaying renovation of the playground will result in increased costs of replacement.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Goals and Objectives

- G 3
- O 3.1
- G 12
- O 12.1
- O 12.2
- O 12.4



Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$450,000						\$450,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$450,000	\$0	\$0	\$0	\$0	\$0	\$450,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$450,000						\$450,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$450,000	\$0	\$0	\$0	\$0	\$0	\$450,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

DRAFT



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Heritage Oaks - Water Supply
Project Code: P&R 731
Project Priority: Priority 2 **Project Type:** ADDITION **Start Date (FYE):** 2020
Department: 730271 **Status:** Active **Completion Date (FYE):** 2020

Description:

The life blood of Heritage Oaks Golf Course is water. Too little water by way of irrigation can severely impact the continued viability of the course.

Heritage Oaks is irrigated via water stored in a pond on site. This storage pond holds 21 inches of usable water (water available to be pumped from the pond to the irrigation system). During normal irrigation operations, the pond is depleted of 4-6 inches of water each night (225,000 gallons of water.)

The pond is fed from runoff via several inlet streams as well as a primary inlet stream that receives inputs of untreated water from the City water treatment plant. These inputs, though fairly regular in periodicity, are inadequate in volume to meet the golf course's irrigation demand during dry weather periods.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Goals and Objectives

Explanation:

There are two approaches to solving this issue - increase water storage capacity or increase water supply. Currently, supplemental filling of the pond is available from Water Utility during their backwash process. This is completed throughout the course of the week and allows for periodic supplementation of water via the stream system. However, water is lost in the terrestrial transfer. This source while still a valuable resource is not reliable as a constant means to replenish the depleted pond.

Construction of an additional lined pond, adjacent to hole number four and the inlet stream from water treatment, on the golf course would fill the current deficit for water storage. An additional pond would also create an attractive water feature that would be integrated into the golf course design. This concept was discussed and approved by the golf course architect, the head professional and a strong majority of golfers surveyed.

This pond would be one half acre in size but could be engineered to a depth to potentially double the usable water storage for irrigation. The pond would have a liner to prevent water loss and the ability to transfer water the short distance to the current pond via an installed pipe and transfer pump.

- G 12
- O 12.1
- O 12.2
- O 12.4

Alternative:

Failure to address this situation can result in the potential catastrophic loss of turf on the golf course.

We would be unable to meet the high expectation of exemplary playing conditions expected of Heritage Oaks Golf Course.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$68,500						\$68,500
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$68,500	\$0	\$0	\$0	\$0	\$0	\$68,500

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue		\$68,500		71				\$68,500



Total	\$0	\$68,500	\$0	\$0	\$0	\$0	\$0	\$68,500
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Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Riven Rock Restrooms
Project Code: P&R 19-6
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** 2021
Department: 710271 **Status:** Active **Completion Date (FYE):** 2021

Description:

Discontinue the use of the two pit style restrooms (Outhouses) at Riven Rock Park and replace with new flushable style restroom, with running water, through a National Joint Powers Association awarded contract with CXT concrete buildings.

Riven Rock Park is a heavily wooded nature park with multiple picnic shelters and water features as its main amenities. At current time, the park has badly deteriorated restroom facilities that are in poor condition and outdated. A pre-cast replacement option is available and widely used in parks that are similar to Riven Rock Park. This new restroom facility will replace various outhouse type facilities currently at the park.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Construction of this one facility would be in a central location and serve the whole of the park. The total cost of the Denali Restroom from CXT is \$59,110. This restroom is a double unit flush style restroom with board and batt upper wall siding, Napa Valley rock lower wall siding, cedar shake roof, vitreous china fixtures, interior and exterior lights, off loaded and set up at park.

City water is currently available at the park and the Water Department confirmed that there is sufficient water pressure. Staff has worked with ATEK Environmental & Soils to establish a plan for a septic system in the park. ATEK evaluated the site and have found a suitable location. The total water usage required by the Department of Health was discussed and determines the size and type of septic system required.

Several test holes were dug to ensure the septic system will be in compliance.

During an onsite meeting with Public Works, it was estimated that funding in the amount of \$20,000-\$25,000 would be required to prepare the site for use with work performed by a contractor. This includes a 1500 gallon concrete tank (top seamed) from Rockingham Precast, a pre-cast concrete box - #12 also from Rockingham Precast, a conveyance, header, percolation lines, fittings, and connectors. The site will also need 10 tons of #57 Stone.

Goals and Objectives

- G 12
- O 12.1
- O 12.2
- O 12.4

Alternative:

Do nothing and remove outhouses when no longer usable. And, Delay any future development of Riven Rock so as not to encourage use.

Transition Riven Rock Park to a "primitive" site with no features other than those that nature provides.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction			\$97,000					\$97,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$97,000	\$0	\$0	\$0	\$0	\$97,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$97,000					\$97,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total				73				



	\$0	\$0	\$97,000	\$0	\$0	\$0	\$0	\$97,000
Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Westover Skate Park Improvement Project
Project Code: P&R 155
Project Priority: Priority 3 **Project Type:** ADDITION & RENOVATION **Start Date (FYE):** 2022
Department: 710271 **Status:** Active **Completion Date (FYE):** 2024

Description:

Westover Skate Park (WSP) opened in 2003 and is a heavily used amenity enjoyed by the youth and young adults of our community.

WSP uses Skate Lite obstacles. These obstacles are constructed of two layers-the outer surfacing material and the interior support structure. Recent staff inspections revealed that the support structures are deteriorating compromising the integrity of the individual obstacles. To ensure safety of our users while we wait for funding for reconstruction, we have committed to annual inspections by a structural engineer. Based on the results of these inspections Parks and Recreation will continue to repair or remove obstacles that are deemed unsafe for continued use.

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Consideration should be given to a redesign/reconstruction of the Westover Skate Park with installation of a more permanent, concrete amenity which would offer a virtually maintenance-free solution.

According to the Tony Hawk Foundation, cost of construction for a concrete skate park is approximately \$40/square foot. With the WSP at approximately 14,000 square feet, we estimate reconstruction cost of \$560,000.

The investment into the redesign/reconstruction of the Westover Skate Park will allow for a safer experience for all users and reduce maintenance costs that includes both time and materials.

Goals and Objectives

- G 3
- O 3.1
- G 12
- O 12.1
- O 12.2
- O 12.4

Alternative:

Continue with structural engineering inspections and repair or remove equipment as needed. This approach will continue until the ongoing deterioration requires permanent closing of this amenity.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$25,000				\$25,000
Land								\$0
Construction					\$350,000	\$210,000		\$560,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$25,000	\$350,000	\$210,000	\$0	\$585,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$25,000	\$350,000	\$210,000		\$585,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$25,000	\$350,000	\$210,000	\$0	\$585,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: A Park for Downtown Harrisonburg
Project Code: P&R 2025
Project Priority: Priority 3 **Project Type:** NEW **Start Date (FYE):** 2025
Department: 910771 **Status:** Active **Completion Date (FYE):** Beyond

Description:

An urban park for downtown Harrisonburg to be constructed on existing City Property located behind the City Hall in the area surrounding Turner Pavilion.

Justifications:

Mandated
 Remove hazards
 Maintains service
 Increase efficiency
 Increase revenues
 Improves service
 x-New service
 Convenience
 Other

Explanation:

City Council approved in concept plans for a new downtown park and appointed two council members to serve on a joint city/park committee task force. The park is intended to meet the needs of a wide diversity of local residents and attract visitors for relaxation and special events. The Farmer's Market will be expanded and new amenities added including a children's play area, open lawn, covered pergola, water features, park furnishing and landscaping.

Goals and Objectives

G 3
 O 3.1
 G 12
 O 12.1
 O 12.2

Alternative:

DRAFT

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction							\$4,700,000	\$4,700,000
Equipment							\$400,000	\$400,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,100,000	\$5,100,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue							\$5,100,000	\$5,100,000
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,100,000	\$5,100,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel							\$46,000	\$46,000
Operating							\$38,000	\$38,000
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$84,000	\$84,000



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Downtown Parking Deck

Project Code: DP20073

Project Priority: Priority 2

Project Type: ADDITION & REPLACEMENT

Start Date (FYE): Beyond

Department: 810921

Status: Active

Completion Date (FYE): Beyond

Description:

Replace Water Street Parking Deck with a minimum 500 space facility and to consider multi-use structure.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Water Street Parking Deck is approximately 40 years old and nearing the end of its useful service life.

Goals and Objectives

- G 18
- O 18.1
- O 18.2

Alternative:

Continue utilizing general fund revenue to maintain existing Water Street Deck.
 Consider replacement as part of a PPEA or public private partnership opportunity.
 Consider alternative locations to replace the Water Street Parking Deck.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$1,000,000	\$1,000,000
Land								\$0
Construction							\$7,500,000	\$7,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,500,000	\$8,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds							\$8,500,000	\$8,500,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$8,500,000	\$8,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Parking Deck Lighting Improvements

Project Code: DP20074

Project Priority: Priority 3

Project Type: RENOVATION

Start Date (FYE): 2020

Department: 810921

Status: Active

Completion Date (FYE): 2020

Description:

Replace all existing lighting within the Water Street and Elizabeth Street parking decks with LED fixtures.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

New LED fixtures would have a 7 year payback due to reduced electric expense, and the fixture has a life of 8+ years.

Alternative:

Continue utilizing existing lighting that costs more to maintain and operate.

Goals and Objectives

G 13

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$50,000						\$50,000
Other Expenses								\$0
Total	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$50,000						\$50,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Elizabeth Street Deck
Project Code: DP20071
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** Beyond
Department: 810921 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Replace Elizabeth Street Parking Deck with a minimum 500 space facility and to consider multi-use structure.

Explanation:

Elizabeth Street Parking Deck is approximately 40 years old and nearing the end of its useful service life.

Alternative:

Continue utilizing general fund revenue to maintain existing Elizabeth Street Deck.
 Consider replacement as part of a PPEA or public private partnership opportunity.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Goals and Objectives

- G 18
- O 18.1
- O 18.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning							\$1,000,000	\$1,000,000
Land								\$0
Construction							\$6,500,000	\$6,500,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500,000	\$7,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds							\$7,500,000	\$7,500,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500,000	\$7,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: DOWNTOWN PARKING LOT IMPROVEMENT PROGRAM
Project Code: DP20072
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2021
Department: 810921 **Status:** Active **Completion Date (FYE):** 2021

Description:

Repave Harrison Plaza Parking lot - \$150,000
 Repave East Water Street Surface Parking Lot - \$40,000

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Smooth out uneven surfaces and potholes for improved driving and walking area, make parking stalls and handicap areas more clear through repainting

Goals and Objectives

G 13

Alternative:

Continue to repatch lots (currently a mix of concrete and asphalt).

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction			\$190,000					\$190,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$190,000	\$0	\$0	\$0	\$0	\$190,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$190,000					\$190,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$190,000	\$0	\$0	\$0	\$0	\$190,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0



Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
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**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: Upgrade HVAC Controls at SSES
Project Code: 120
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2024
Department: 1311 **Status:** Active **Completion Date (FYE):** 2024

Description:

Upgrade HVAC controls at Stone Spring Elementary School.

Explanation:

HVAC front-end controls are outdated. Access by HVAC technician is limited.

Alternative:

Continue to maintain HVAC controls. Repair as needed.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment						\$53,000		\$53,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$53,000	\$0	\$53,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue						\$53,000		\$53,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$53,000	\$0	\$53,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Storefront Door Replacements SKMS/SMES
Project Code: 220
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** Beyond
Department: 1311 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Replace storefront doors at Skyline Middle School and Smithland Elementary School

Explanation:

Exterior doors at SKMS/SMES will need to be replaced due to their advanced rate of decline.

Alternative:

Continue to maintain and repair doors as needed.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment							\$102,000	\$102,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$102,000	\$102,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$102,000	\$102,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$102,000	\$102,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Chiller Replacement at HHS
Project Code: 320
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** Beyond
Department: 1311 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Replace chiller at Harrisonburg High School

Explanation:

Chiller will be at the end of its life cycle.

Alternative:

Continue to maintain and repair chiller as needed.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Goals and Objectives

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment							\$300,000	\$300,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$300,000	\$300,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	\$300,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Renovation/Remodel of THMS
Project Code: 420
Project Priority: Priority 2 **Project Type:** ADDITION & RENOVATION **Start Date (FYE):** Beyond
Department: 1311 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Renovate Thomas Harrison Middle School

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Renovate and remodel Thomas Harrison Middle School to improve educational spaces.

Alternative:

None.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction							\$5,000,000	\$5,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds							\$5,000,000	\$5,000,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Construct New High School

Project Code: 520

Project Priority: Priority 2

Project Type: CONSTRUCTION

Start Date (FYE): 2020

Department: 1311

Status: Active

Completion Date (FYE): 2023

Description:

Construct new High School to accommodate school division's growth.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- x-Other

Explanation:

Current estimate for the construction of a new facility is \$80-\$90 million.

Alternative:

None.

Goals and Objectives

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$5,500,000						\$5,500,000
Land	\$5,000,000							\$5,000,000
Construction			\$80,000,000					\$80,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$5,000,000	\$5,500,000	\$80,000,000	\$0	\$0	\$0	\$0	\$90,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue								\$0
Bond Proceeds	\$5,000,000	\$5,500,000	\$80,000,000					\$90,500,000
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$5,000,000	\$5,500,000	\$80,000,000	\$0	\$0	\$0	\$0	\$90,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Boiler Replacement at SSES
Project Code: 620
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2021
Department: 1311 **Status:** Active **Completion Date (FYE):** 2021

Description:

Replace outdated boiler at Stone Spring Elementary School

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

The original boiler is reaching the end of its life cycle (16 years old).

Alternative:

Continue to maintain and repair boilers as needed.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment			\$75,000					\$75,000
Other Expenses								\$0
Total	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$75,000					\$75,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$75,000	\$0	\$0	\$0	\$0	\$75,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Replace roof sections at THMS
Project Code: 720
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2020
Department: 1311 **Status:** Active **Completion Date (FYE):** 2020

Description:

Replace roof sections at Thomas Harrison Middle School.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

This is the original roof dating from 1989.

Alternative:

Make repairs as needed.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction		\$50,000						\$50,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$50,000						\$50,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Air Handler Replacement at SES/WES/KES

Project Code: 820

Project Priority: Priority 2

Project Type: ADDITION & REPLACEMENT

Start Date (FYE): 2023

Department: 1311

Status: Active

Completion Date (FYE): 2023

Description:

Replace air handlers at Spotswood, Waterman and Keister Elementary Schools

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

These are the original air handlers.

Alternative:

Continue to maintain and repair as needed.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment					\$685,000			\$685,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$685,000	\$0	\$0	\$685,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$685,000			\$685,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$685,000	\$0	\$0	\$685,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Chiller Replacement at SSES
Project Code: 920
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** 2021
Department: 1311 **Status:** Active **Completion Date (FYE):** 2021

Description:

Replace the chiller(s) at Stone Spring Elementary School.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Chiller(s) are the original equipment installed in 1999.

Alternative:

Continue to maintain and repair as needed.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment			\$185,000					\$185,000
Other Expenses								\$0
Total	\$0	\$0	\$185,000	\$0	\$0	\$0	\$0	\$185,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue			\$185,000					\$185,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$185,000	\$0	\$0	\$0	\$0	\$185,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Purchase Land for 7th Elementary School
Project Code: 1020
Project Priority: Priority 2 **Project Type:** ADDITION **Start Date (FYE):** 2023
Department: 1311 **Status:** Active **Completion Date (FYE):** 2023

Description:

Purchase land for a 7th Elementary School

Justifications:

Mandated
 Remove hazards
 x-Maintains service
 x-Increase efficiency
 Increase revenues
 Improves service
 New service
 Convenience
 Other

Explanation:

With anticipated enrollment growth, a 7th Elementary School will need to be constructed.

Alternative:

None.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land					\$1,500,000			\$1,500,000
Construction								\$0
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$1,500,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$1,500,000			\$1,500,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0	\$1,500,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Resurface THMS Parking lot and Road

Project Code: 1120

Project Priority: Priority 2

Project Type: ADDITION & REPLACEMENT

Start Date (FYE): 2022

Department: 1311

Status: Active

Completion Date (FYE): 2022

Description:

Resurface THMS entrance road and parking areas.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

The asphalt entering the school as well as the parking lots are breaking down and cracking.

Alternative:

Continue to fill cracks in pavement and maintain existing asphalt.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction				\$91,000				\$91,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$91,000	\$0	\$0	\$0	\$91,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue				\$91,000				\$91,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$91,000	\$0	\$0	\$0	\$91,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Roof replacement/repairs at SES/WES

Project Code: 1220

Project Priority: Priority 2

Project Type: CONSTRUCTION

Start Date (FYE): 2023

Department: 1311

Status: Active

Completion Date (FYE): 2023

Description:

Roof repairs/replacement(s) at Spotswood and Waterman Elementary Schools

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

The roofs at Spotswood Elementary School and Waterman Elementary School are approaching the end of their useful lives.

Alternative:

Continue to maintain and repair as needed.

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction					\$200,000			\$200,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue					\$200,000			\$200,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$200,000	\$0	\$0	\$200,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Tennis Court Replacement at HHS
Project Code: 1320
Project Priority: Priority 2 **Project Type:** CONSTRUCTION **Start Date (FYE):** Beyond
Department: 1311 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Replace tennis courts at Harrisonburg High School.

Explanation:

The subsurface of the tennis courts has failed to cause the courts to crack and sink.

Alternative:

Continue to maintain and repair as needed.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

**Goals/Objectives/
Strategies:**

G 7

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction							\$350,000	\$350,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue							\$350,000	\$350,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: WESTERN RAW WATERLINE (910161-48621)
Project Code: proj202
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 1995
Department: 2011 **Status:** Active **Completion Date (FYE):** 2072

Description:

Project 48261, as pertains to the Dry River system, targets to maximize use of the City's priority water source while also enhancing risk management, electrical energy management and asset management for the adjacent potable water system in the Route 33 West corridor. Project 48261, as pertains to the North River system targets to retain the use of this water source with continued 20" pipeline condition assessments/rehabilitation and River Pump Station intake improvements. These assets are operated and maintained under budget 332061.

Current Replacement Value of Assets = \$31,749,677 @ ENR = 11,116
 Current Value After Depreciation = \$12,434,494 @ ENR = 11,116

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- x-Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Program 48261 will complete the construction of a new larger 30" pipe from the City Dry River intake to the Water Treatment Plant. There will be no retirement of existing raw water assets as the existing 16" raw water pipe assets will be simultaneously converted to use in delivering potable water; older existing potable water pipe assets will be retired instead. The 30" pipe from Belleview Road to VPGA, risk mitigations, DRI intake screening requirements from VWWP 16-0730, intake improvements, and Dry River Dam Rehabilitation are proposed to be constructed using proceeds from a bond sale (9.277M) issued in FY2025. Remaining 30" pipe construction (\$8.310m) from VPGA to Coopers Mountain will be programmed at a later date pending condition assessment of both raw and potable water pipe. Asset replacement fund based on Level 1 condition assessment (MASL) and project funding based on attached studies requires over the next 5 years \$300,000/year for 2020-2024 and a proposed bond of \$9.277M in 2025. Anticipate \$26.85M expenses for 15 years beyond, funded as proposed in the supporting documentation submitted.

Goals and Objectives

- G 14
- O 14.1

Anticipated yearly expenses are summarized as follows:

- 2020: \$142,900 Asset Replacements; \$100,000 North River 20" & Western 16" Condition Assessments
- 2021: \$100,000 North River 20" and Western 16" Condition Assessments
- 2022: \$177,946 Asset Replacements; \$100,000 North River 20" and Western 16" Condition Assessments
- 2023: \$100,000 North River 20" and Western 16" Condition Assessment
- 2024: \$100,000 North River 20" and Western 16" Condition Assessment

Future Scheduling will be programmed pursuant to asset management risk, lifecycle analysis, and condition assessment.

Alternative:

Limited opportunity to change project scope but schedule can be altered with acceptance of risk. Screens at NRPS & are mandated by VWWP 16-0730 (Alternatives to be negotiated)

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$644,361	\$10,000	\$10,000	\$20,000	\$5,000	\$5,000		\$694,361
Land	\$322,180							\$322,180
Construction	\$5,477,066	\$232,900	\$90,000	\$257,946	\$95,000	\$95,000	\$26,494,452	\$32,742,364
Equipment								\$0
Other Expenses								\$0
Total	\$6,443,607	\$242,900	\$100,000	\$277,946	\$100,000	\$100,000	\$26,494,452	\$33,758,905

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$6,642,880	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$25,616,025	\$33,758,905
Bond Proceeds								\$0



Grants									\$0
Capital Project Fund									\$0
Other Revenue									\$0
Total	\$6,642,880	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$25,616,025		\$33,758,905

Operating Impacts:

	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: EASTERN SOURCE DEVELOPMENT (910161-48654)
Project Code: proj203
Project Priority: Priority 2 **Project Type:** NEW **Start Date (FYE):** 1999
Department: 2011 **Status:** Active **Completion Date (FYE):** 2021

Description:

Project 48654 includes constructing the intake, two pump stations, and 89,556 feet of pipe to convey raw water from the South Fork of the Shenandoah River to the City's Water Treatment Plant at Grand View Drive. Project was selected from various alternatives by City Council in 1999. Supporting documentation included "Raw Water Supply Study of Western Sources for Harrisonburg" dated April 8, 1992, "Raw Water Study South Fork Shenandoah River" dated July 1997, "Raw Waterline Route Study South Fork Shenandoah River to Water Treatment Plant" dated November 18, 1999, "Study for Waterline Crossing of I-81" dated October 2004, and "South Fork Intake and Goods Mill Pump Station PER" dated January 2017. As an alternative option, groundwater evaluation studies were completed in 1992, 1997, 1999, and 2001.

Assets for this project are operated and maintained under budget 332061.

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- x-Increase revenues
- Improves service
- x-New service
- x-Convenience
- x-Other

Goals and Objectives

G 14
O 14.1

Explanation:

This project is partially completed.

Completed work for this project forecasts 42,810 feet of pipe line completed from Port Republic Road/Spader's Church Road to the City Water Treatment Plant on Grandview Drive. Phases 1 and 2 of the Power Dam Pump Station have been completed and Phase 1 of Goods Mill Pump Station has been completed. Ancillary work has included permitting and renewals, legal compliances, study of alternatives, environmental studies of the South Fork Shenandoah River fish habitat and water quality analysis.

This project proposes to complete the remaining pipe (Port Republic Road/Spaders Church Road to the Shenandoah intake) by closure of FY 2020 and the completion of the two pump stations and project commissioning will be completed by end of FY 2021. Funding is through borrow of \$14,052,884 in FY2020.

Other expenses shown below include planning, design, land acquisition, easements, construction, inspection and construction administration

Alternative:

Reevaluate project under differing goals
Reevaluate project under partnership arrangements

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses	\$18,574,967	\$14,000,000	\$4,000,000					\$36,574,967
Total	\$18,574,967	\$14,000,000	\$4,000,000	\$0	\$0	\$0	\$0	\$36,574,967

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$12,833,473							\$12,833,473
Bond Proceeds	\$9,620,000	\$14,052,879						\$23,672,879
Grants	\$68,615							\$68,615
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$22,522,088	\$14,052,879	\$0	\$0	\$0	\$0	\$0	\$36,574,967

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel				97				\$0



Operating									\$0
Capital									\$0
Offsets									\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Rural Potable Projects (910161-48670)
Project Code: proj213
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2008
Department: 2011 **Status:** Active **Completion Date (FYE):** 2039

Description:

The HPU has performed Level 1 forecasts (MASL) to estimate the remaining useful life of the 10", 12" and 16" watermains in the Route 33 West Corridor. These forecasts show that the 10" is at or near the end of it's useful life, the 12" is within 5 years and the 16" may have as much as 30 years remaining service. The HPU is prepared to address this through a combination of replacement, rehabilitation and repurposing of assets. The proposed CIP funding is divided into two categories. First is the funding of known and planned projects. The second is the building of a reserve fund for the study and replacement of the remaining assets which are still operating at an acceptable level of service, but are continuing to age.

Assets target for this CIP are operated and maintained under budget 332061.

Current Asset Replacement Value (Rural Assets): \$17,823,404
 Depreciated Asset Value (Rural Assets): \$4,739,345
 Current ENR Value of 11,116

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Goals and Objectives

G 14
O 14.1

Explanation:

Short Term Project:
 This project is the conversion of the 12" pipe from VPGA to CMT. Adding the 12" pipe in parallel with the existing 10" reduces the COF and thus the risk of failure in this section by adding redundancy to the system. This conversion cost is estimated at \$20,000 and has been rescheduled to FY2020.

Intermediate Projects:
 The first intermediate project is the conversion of the existing 16" raw pipe to finished water transmission between Bellview Road and the VPGC in Hinton. The project is contingent upon the completion of the parallel 30" raw waterline in this route. The conversion cost is minimal at \$5,000 in FY2021.

The second intermediate project is the construction of a new 8" distribution main in the CMZ. Total project cost is estimated at \$1,850,000. This project will be cash funded beginning in FY2018 at \$200,000 with construction scheduled to begin in FY2021.

Long Term Project:
 With the completion of the 30" raw waterline, the existing 16" waterline can be converted to finished water service between VPGC and CMT. The conversion cost is minor, estimated at \$5,000 in FY2038. An additional \$100,000 will be required for the conversion of the water services from the 10" to the 16" to allow the abandonment of the existing 10" line.

Study and Replacement of Waterlines:
 Throughout the 5 year planning period, the HPU will continue to perform contracted condition assessments of the existing pipe network. This condition assessment is intended to validate assumed remaining useful life, verify the value in repurposing pipelines and confirming schedules. An estimated \$50,000 per year is requested for this condition assessment.

Alternative:

Limited opportunity to change project scope but schedule can be altered with acceptance of risk and deteriorating level of service.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000		\$250,000
Land								\$0
Construction	\$485,617	\$20,000	\$205,000	\$200,000	\$200,000	\$200,000	\$13,503,698	\$14,814,315
Equipment								\$0
Other Expenses								\$0
Total	\$485,617	\$70,000	\$255,000	\$250,000	\$250,000	\$250,000	\$13,503,698	\$15,064,315



Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$775,000	\$250,000	\$250,000	\$255,000	\$250,000	\$250,000	\$13,034,315	\$15,064,315
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$775,000	\$250,000	\$250,000	\$255,000	\$250,000	\$250,000	\$13,034,315	\$15,064,315

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Pumping, Storage & Transfer Assets (910161-48688)
Project Code: proj216
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2012
Department: 2011 **Status:** Active **Completion Date (FYE):** 2035

Description:

Project 48688 provides funding to manage water system assets that are integral to the City of Harrisonburg water system. These specific assets are operated and maintained under the organization and budget division for pumping and storage functions (322061).

Current Asset Replacement Value = \$23,647,384 (2018 ENR 11,116)
 Current Depreciated Asset Value = \$15,997,599 (2018 ENR 11,116)

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Existing system assets will be retired, upgraded or added through planned management of components (pumps, tanks, control valves, and instrumentation). Parameters and strategies include useful life projections, condition assessments and life cycle analysis of assets. Condition assessments include a formal Tank Maintenance driven by evaluations from professional inspectors. This program makes resources available to allow the Department of Public Utilities to remain current with new technology and products and to also preplan the retirement of assets in the optimum stage in their life cycle.

Asset Replacement Methodology:
 Level 1: Retirement date established by age only
 Level 2: Retirement date established by Age and Qualitative Condition Assessment
 Level 3: Retirement date established by Age and Quantitative Condition Assessment

Projected Yearly Asset Expenses:
 Asset replacement funding based on Level 1 condition assessment, over the next 5 years, requires \$500,000/year for 2020-2022 and \$400,000/yr for 2023-2024. Anticipate \$200,000/year for 15 years beyond (2025-2039). This includes Tank Inspections @ \$25,000/year and maintenance plan updates with design and construction of future tank projects.

Project Expenses:
 2020: \$7,000 Tank Inspections; \$6,000 for 452.3 Coopers Mt Tank Rehab; \$15,000 for 452.4 Washington Tank Maintenance; \$6,000 for 452.9 Grandview Tank Maintenance & \$50,000 for continued SCADA 64 Bit SCADA upgrade.
 2021: \$25,000 Tank Inspections; \$25,000 for 514 Meters in Pump Stations
 2022: \$25,000 Tank Inspections; \$25,000 for 452 Tank Maintenance Plan Update; \$50,000 for 505 SCADA Control Wave Upgrades; \$105,000 for Park View Tank Decommissioning and Removal & \$50,000 for Re-purpose Original Park View Pump Station
 2023: \$25,000 Tank Inspections; \$25,000 for 452 Tank Maintenance Plan Update & \$200,000 Future Tank Painting & Rehabilitations (Estimated)
 2024: \$25,000 Tank Inspections & \$200,000 Future Tank Painting & Rehabilitations (Estimated)
 Estimated Tank Rehabilitation funding to be refined based on Professional Tank inspection results.

Goals and Objectives

G 14
O 14.1

Alternative:

Reactive approach; Schedule can be altered with acceptance risk.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction	\$1,456,096	\$402,106	\$417,229	\$276,636	\$367,421	\$281,526	\$3,561,456	\$6,762,470
Equipment								\$0
Other Expenses								\$0
Total	\$1,456,096	\$402,106	\$417,229	\$276,636	\$367,421	\$281,526	\$3,561,456	\$6,762,470

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$1,462,470	\$500,000	\$500,000	\$500,000	\$400,000	\$400,000	\$3,000,000	\$6,762,470



Bond Proceeds									\$0
Grants									\$0
Capital Project Fund									\$0
Other Revenue									\$0
Total	\$1,462,470	\$500,000	\$500,000	\$500,000	\$400,000	\$400,000	\$3,000,000		\$6,762,470

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Transmission & Distribution: Assets (48732)
Project Code: proj215A
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2013
Department: 2011 **Status:** Active **Completion Date (FYE):** 2039

Description:

Capital Program 48732 associates with assets that are operated and maintained under budget 332061 but excluding assets to deliver raw water and potable water to rural customers. Capital funds will allow water system to be upgraded, enhanced, expanded and revitalized through planned management of component assets such as mains (which includes stop valves), hydrants and air valves. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses. This capital program makes resources available such to allow the Department of Public Utilities to preplan the retirement of assets at the optimum replacement stage in their lifecycle and to upsize existing mains or install new lines to enhance delivery.

Current Asset Replacement Value: \$119,085,678 @ ENR=11,116
 Depreciated Asset Value: \$68,166,402 @ ENR=11,116

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- x-Other

Goals and Objectives

G 14
O 14.1

Explanation:

STUDY AND REPLACEMENT OF WATERLINES:
 Many of the public water distribution assets are reaching the end of their anticipated service life. Based on age and limited break analysis, waterline totaling a replacement cost of \$5,616,808 are due for replacement between 2020 and 2024 and an additional \$28,805,928 are due between 2025 and 2040.

Rather than a wholesale replacement, a \$300,000 minimum per year is requested for the detailed condition assessment of existing distribution piping and replacement of selected projects.

UNDERSIZED MAINS WITH FIRE HYDRANTS

The Public Utilities has identified several streets with undersized waterlines serving Fire Hydrants. Identification and project planning are scheduled for FY 2020 through FY 2024. The project is estimated to expend \$130,000 each of the 5 years for a total of \$650,000.

REPLACEMENT OF AIR RELEASE VALVES

HPU maintains an inventory of 177 air release valves within the City, each with an average life expectancy of 50 years. An estimated \$121,400 will be required over the next 20 years. Funding is requested at \$10,000 per year for FY 2020 through FY 2033.

REPLACEMENT OF OBSOLETE FIRE HYDRANTS

The project includes the replacement of 110 Dresser, 3 M&H and 234 Matthews fire hydrants, which are obsolete and have become more expensive to repair than replace. This project will replace up to \$20,000 of the old hydrants per year.

Alternative:

None.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction	\$1,151,906	\$460,000	\$460,000	\$460,000	\$460,000	\$460,000	\$6,195,000	\$9,646,906
Equipment								\$0
Other Expenses								\$0
Total	\$1,151,906	\$460,000	\$460,000	\$460,000	\$460,000	\$460,000	\$6,195,000	\$9,646,906

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$2,104,392	\$460,000	\$460,000	\$460,000	\$460,000	\$460,000	\$5,242,514	\$9,646,906
Bond Proceeds								\$0
Grants								\$0



Capital Project Fund								\$0
Other Revenue								\$0
Total	\$2,104,392	\$460,000	\$460,000	\$460,000	\$460,000	\$460,000	\$5,242,514	\$9,646,906

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Water Treatment Assets (910161 48733)
Project Code: proj218
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2013
Department: 2011 **Status:** Active **Completion Date (FYE):** 2036

Description:

Project 48733 associates with assets that are operated and maintained under budget 362061 for water treatment. Capital funds will allow water system to be upgraded, enhanced, expanded and revitalized through planned management of component assets. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses. This capital program makes resources available such to allow the Department of Public Utilities to preplan the retirement of assets at the optimum replacement stage in their lifecycle.

Asset Lifecycle Replacement Methodology in order of continuous improvement:
 Level 1: Retirement date established by Age Only
 Level 2: Retirement date established by Age and Qualitative Condition Assessment
 Level 3: Retirement date established by Age and Quantitative Condition Assessment.
 Current Asset Replacement Value CARV: \$ 21,080,575 @ ENR 11,116
 Depreciated Asset Value: \$ 12,617,887 @ ENR 11,116

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Goals and Objectives

G 14
O 14.1

Explanation:

The following asset replacements through FY2024 based on Level 1 condition assessment; replacement costs recognize a 2.5% annual inflation. Level funding of \$250,000 per year.

2020.....	\$150,255.00
Electrical.....	\$ 10,000.00
HVAC.....	\$ 21,500.00
Instrumentation.....	\$ 65,550.00
Pumps.....	\$ 30,994.00
SCADA.....	\$ 22,211.00
2021.....	\$0
2022.....	\$0
2023.....	\$0
2024.....	\$643,774.00
Actuators.....	\$229,474.00
Electrical.....	\$138,018.00
Equipment.....	\$ 397.00
Media.....	\$ 87,004.00
Pumps.....	\$ 72,180.00
Structural.....	\$ 29,697.00
Tanks.....	\$ 57,004.00

Beyond: Anticipate additional \$978,827.00 Expenditures

Alternative:

None.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment	\$522,962	\$170,255	\$0	\$0	\$0	\$643,774	\$978,872	\$2,315,863
Other Expenses								\$0
Total	\$522,962	\$170,255	\$0	\$0	\$0	\$643,774	\$978,872	\$2,315,863

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0



Enterprise Revenue	\$615,863	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$450,000	\$2,315,863
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$615,863	\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$450,000	\$2,315,863

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Metering System (910161 48734)
Project Code: proj217
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2013
Department: 2011 **Status:** Active **Completion Date (FYE):** 2037

Description:

Project 48734 provides funding with purpose to maintain water/sewer customer metering infrastructure through rehab and replacement (R&R) practices for asset management. Assets that are specific to this program are:

- 1) Small Meters
- 2) Large Meters
- 3) Meter Reading Communication Units

CIP format is by asset management with purpose to replace meters before their condition incurs significant reduction to revenue. Acceptable accuracy is defined by AWWA and Cost to Benefit Analysis Replacement Strategy is to advance from Level 1 to Level 3 through progressive improvement as follows:

Level 1: Replacement of meters by age;
 Level 2: Replacement of meters by industry standard benchmarks for pass through consumption;
 Level 3: Replacement of meters by Harrisonburg system specific benchmarks for pass through consumption

Current Asset Replacement Value: \$2,029,957 @ ENR = 11,116
 Current Asset Value After Depreciation: \$1,648,038 @ ENR = 11,116

Justifications:

Mandated
 Remove hazards
 x-Maintains service
 x-Increase efficiency
 x-Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Goals and Objectives

G 14
O 14.1

Explanation:

Small meter evaluation does not allow for individual testing; schedule is generated at Level 2 assessment. Life Cycle criteria is as follows: Replacement benchmarks are 5/8" meters @ 3 Million gallons; 1" meters @ 6 Million gallons, and 1.5" Meters @ 14 Million gallons. Field testing of selected meters will be performed to further determine in-situ benchmarks to replace industry standard benchmarks.

Large meters are tested for accuracy in the field by predetermined schedule and then replaced accordingly. Current Level 1 expense schedule (Project #451) are an estimate as historic data is invalid for use. Past repair practices are no longer available post 2015 as spare parts are no longer available; practice moves to full meter replacements.

Metering reading conversion from touch read to AMR (Radio) and AMI (Fixed) technology began in 1999 and is continuing today with 7,700 units to be converted.

Funding of \$150,000 per year will allow forecasted R&R for small and large meters plus accomodation to take on \$146,901/yr annual debt payment (\$2,185,380) in 2031 for AMR/AMI technology.

Alternative:

Accept the risk of meter failures and lost revenue.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment	\$1,223,212	\$96,325	\$89,569	\$96,678	\$94,740	\$64,140	\$2,495,694	\$4,160,358
Other Expenses								\$0
Total	\$1,223,212	\$96,325	\$89,569	\$96,678	\$94,740	\$64,140	\$2,495,694	\$4,160,358

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$1,284,393	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$2,125,965	\$4,160,358
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0



Other Revenue									\$0
Total	\$1,284,393	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$2,125,965	\$4,160,358
Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future		Total
Personnel									\$0
Operating									\$0
Capital									\$0
Offsets									\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Facilities (910161-48757)
Project Code: proj211
Project Priority: Priority 2 **Project Type:** ADDITION & RENOVATION **Start Date (FYE):** 2009
Department: 2011 **Status:** Active **Completion Date (FYE):** 2039

Description:

Project 48757 emphasizes expansion and lifecycle repair / replacement for various buildings and grounds assets belonging to the Public Utilities inventory. This includes, but not limited to, building furnaces and AC units, roof, vehicular gate operator and parking lot.

Justifications:

Mandated
 Remove hazards
 Maintains service
 x-Increase efficiency
 Increase revenues
 Improves service
 New service
 x-Convenience
 x-Other

Explanation:

Funding shall target to replace itemized assets per Level 1 retirement plus \$45,319 to establish a Reserve Balance at 2% of current asset replacement value (CARV 2108).

- * CARV itemized assets = \$312,139 @ ENR = 11,116
- * CARV remaining assets = \$2,265,956 @ ENR = 11,116
- * Net CARV = \$2,403,349
- * Net CARV Reserve @ 2% = \$45,319

Additional project expenses include:

- * Continued Building Expansion = \$300,000
- * Truck Wash Station = \$15,000

All expenses to be shared equally between Water and Sewer funding codes.

Goals and Objectives

G 14
O 14.1

Alternative:

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$25,000						\$25,000
Land								\$0
Construction	\$4,835	\$89,707	\$125,000	\$0	\$0	\$0	\$71,261	\$290,803
Equipment								\$0
Other Expenses								\$0
Total	\$4,835	\$114,707	\$125,000	\$0	\$0	\$0	\$71,261	\$315,803

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$65,000	\$100,000	\$100,000	\$5,000	\$5,000	\$5,000	\$35,803	\$315,803
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$65,000	\$100,000	\$100,000	\$5,000	\$5,000	\$5,000	\$35,803	\$315,803

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: BLACKS RUN INTERCEPTOR UPGRADE PROG (911161-48641)
Project Code: sew203
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 1991
Department: 2012 **Status:** Active **Completion Date (FYE):** 2056

Description:

Project 48641 provides continued commitment to upgrade infrastructure of the City sanitary sewer collection system following recommendations from the Interceptor Sewer Evaluation Study for the City of Harrisonburg, VA by Wiley & Wilson 1989 an updated interceptor ILOS study to be completed in 2019 and the City Sanitary Sewer Management Plan (SSMP). Assets target for this program are operated and maintained under budget code 432061. This program allows for continued growth by expanding interceptor pipe capacity, helps reduce infiltration/inflow by pipe upgrade and reduces maintenance by pipe upgrade. Current Asset Replacement Value: \$14,676,875 @ ENR=11,116
Current After Depreciation Value: \$5,750,459 @ ENR=11,116

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- x-Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

The outcome of the 2019 ILOS Study will determine future funding; however two Capital Improvement Projects are anticipated to substitute asset life cycle replacements due to Likelihood of Failure by capacity limitations. The two projects are as follows:
 FY20120-2021 CIP # 385 Country Club Road \$900,000 @ \$300/ft
 FY2024-2025 CIP # 282 Wolf To Water Interceptor Upgrade \$600,000 @ \$300/ft
 Total remaining project cost per Asset Lifecycle analysis in 2020 dollars = \$6.6M including FY 2020-2022 projects.
 Funding is at \$600,000/yr 2020-2024 and \$3,905,511 beyond 2024.
 A new study will be performed in 2019 defining the level of service (LOS) for interceptors.

Goals and Objectives

- G 14
- O 14.2

Alternative:

Reactive Approach

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$486,954	\$90,474	\$23,993	\$3,751	\$0	\$273,847	\$393,412	\$1,272,431
Land	\$243,477	\$40,370	\$11,996	\$1,876	\$0	\$106,923	\$196,706	\$601,348
Construction	\$4,139,108	\$686,285	\$1,053,939	\$31,887	\$0	\$1,817,699	\$3,344,005	\$11,072,923
Equipment								\$0
Other Expenses								\$0
Total	\$4,869,539	\$817,129	\$1,089,928	\$37,514	\$0	\$2,198,469	\$3,934,123	\$12,946,702

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$6,041,191	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,905,511	\$12,946,702
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$6,041,191	\$600,000	\$600,000	\$600,000	\$600,000	\$600,000	\$3,905,511	\$12,946,702

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Collection & Transmission Assets (911161 48735)
Project Code: sew211
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2013
Department: 2012 **Status:** Active **Completion Date (FYE):** 2036

Description:

Program 48735 provides funding to manage assets that are integral to the City of Harrisonburg sanitary sewer system. These specific assets are operated and maintained under the organization and budget division for collection & transmission functions (432061). Existing systems will be upgraded, enhanced, expanded, and revitalized through planned management of component assets as mains and manholes. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses of assets. Also included is specific emphasis to abating infiltration and inflow. This program makes resources available to allow the Department of Public Utilities to maintain current with new technology, new products and to also preplan the retirement of assets at the optimum replacement stage in their lifecycle.

Asset Replacement Methodology:
 Level 1: retirement date established by Manufacturer's Anticipated Service Life (MASL)
 Level 2: retirement date modified by criticality
 Level 3: retirement date modified by criticality and condition assessment

Current Asset Replacement Value= \$85,017,419 @ ENR=11,116
 Current After Depreciation Value=\$36,504,382 @ ENR=11,116

Justifications:

Mandated
 x-Remove hazards
 x-Maintains service
 Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 x-Other

Goals and Objectives

G 14
O 14.2

Explanation:

Capital program has been organized to meet the goals of the Harrisonburg Public Utilities (HPU) Sanitary Sewer Management Plan (SSMP) with specific reference to Asset management and I&I Abatement.

Funding as proposed will allow over the next 20 years for the retirement of \$22,751,710 in sewer assets (pipeline and manholes) by Level 1 criteria. Two CIP projects are slotted for substitution over the Level 1 criteria between 2019 & 2022 due to Likelihood Of Failure by capacity limitations. Future funding and asset retirement will be based on Level 2 and 3 criteria.

Funding requirement is \$500,000 /year for years 2020-2024 and \$900,000/year for years 2025 to 2039.

Alternative:

Reactive Approach

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$120,471	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$1,610,000	\$1,980,471
Land	\$60,235	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$805,000	\$990,235
Construction	\$1,024,002	\$425,000	\$425,000	\$425,000	\$425,000	\$425,000	\$13,685,000	\$16,834,002
Equipment								\$0
Other Expenses								\$0
Total	\$1,204,708	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$16,100,000	\$19,804,708

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$2,807,309	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$14,497,399	\$19,804,708
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$2,807,309	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$14,497,399	\$19,804,708

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel				111				\$0



Operating									\$0
Capital									\$0
Offsets									\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Management of Transfer & Monitoring Assets (911161 48736)
Project Code: sew212
Project Priority: Priority 2 **Project Type:** REPLACEMENT **Start Date (FYE):** 2013
Department: 2012 **Status:** Active **Completion Date (FYE):** 2036

Description:

Program 48736 provides funding to manage assets that are integral to the City of Harrisonburg Sanitary Sewer System. These specific assets are operated and maintained under the organization and budget division for transfer functions (462061). Existing systems will be upgraded, enhanced, expanded, and revitalized through planned management of component assets as pumps and instrumentation. Parameters and strategies include useful life projections, condition assessments, and life cycle analyses of assets. This subprogram makes resources available to allow the Department of Public Utilities to maintain current with new technology and new products and to also preplan the retirement of assets at the optimum replacement stage in their lifecycle.

Asset Replacement Methodology

- Level 1: Retirement date Manufacturer's Anticipated Service Life (MASL)
- Level 2: Retirement date modified by criticality
- Level 3: Retirement date modified by criticality and condition assessment

Current Asset Replacement Value (CARV) = \$2,451,652 (2018 ENR 11,116)
 Current Value After Depreciation (CVAD) = \$1,405,652 (2018 ENR 11,116)

Justifications:

- Mandated
- x-Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- x-Other

Goals and Objectives

- G 14
- O 14.2

Explanation:

Anticipate replacing assets based on a life cycle analysis with a level 1 accuracy (Retirement based on age and manufacturers estimated life only); This analysis shows the following:

- 2020: \$117,456 Generators; \$12,901 Pumps; \$107,625 Smithland Road Godwin Emergency Pump & related upgrades
- 2021: \$0
- 2022: \$0
- 2023: \$114,680 Generators
- 2024: \$0

We have proposed funding of \$50,000/year for 2020-2024 & \$30,000/year beyond to begin banking for future replacements. It is anticipated that with each yearly cycle this methodology will converge towards the true Life Cycle cost. As Condition Assessment progresses to a higher quantitative level through new technologies, the prediction of useful life for these assets will become more accurate.

Alternative:

Reactive Approach

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment	\$170,846	\$237,982	\$0	\$0	\$114,680	\$0	\$748,474	\$1,271,982
Other Expenses								\$0
Total	\$170,846	\$237,982	\$0	\$0	\$114,680	\$0	\$748,474	\$1,271,982

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$571,982	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$450,000	\$1,271,982
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total				113				



\$571,982	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$450,000	\$1,271,982
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Impacts:

	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

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Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Facilities (911161-48757)
Project Code: sew210
Project Priority: Priority 2 **Project Type:** ADDITION & RENOVATION **Start Date (FYE):** 2009
Department: 2012 **Status:** Active **Completion Date (FYE):** 2039

Description:

Program 48757 emphasizes expansion and lifecycle repair / replacement for various buildings and grounds assets belonging to the Public Utilities inventory. This includes, but is not limited to, building furnaces and AC units, roof, vehicular gate operator and parking lot.

Justifications:

Mandated
 Remove hazards
 Maintains service
 x-Increase efficiency
 Increase revenues
 Improves service
 New service
 x-Convenience
 x-Other

Explanation:

Funding shall target to replace itemized assets per Level 1 retirement plus \$45,319 to establish a Reserve Balance at 2% of current asset replacement value (CARV 2108).

- * CARV itemized assets = \$312,139 @ ENR = 11,116
- * CARV remaining assets = \$2,265,956 @ ENR = 11,116
- * Net CARV = \$2,403,349
- * Net CARV Reserve @ 2% = \$45,319

Additional project expenses include:

- * Continued Building Expansion = \$300,000
- * Truck Wash Station = \$15,000

All expenses to be shared equally between Water and Sewer funding codes.

Goals and Objectives

G 14
O 14.2

Alternative:

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$25,000						\$25,000
Land								\$0
Construction	\$15,000	\$89,707	\$125,000	\$0	\$0	\$0	\$71,261	\$300,968
Equipment								\$0
Other Expenses								\$0
Total	\$15,000	\$114,707	\$125,000	\$0	\$0	\$0	\$71,261	\$325,968

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$115,000	\$75,000	\$75,000	\$5,000	\$5,000	\$5,000	\$45,968	\$325,968
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$115,000	\$75,000	\$75,000	\$5,000	\$5,000	\$5,000	\$45,968	\$325,968

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: HRRSA Blacks Run Interceptor Upgrade (911161-48759)
Project Code: sew204
Project Priority: Priority 1 **Project Type:** REPLACEMENT **Start Date (FYE):** 2020
Department: 2012 **Status:** Active **Completion Date (FYE):** 2051

Description:

Budget Code: 442061-49320 not 911161-48759
 Commitment to upgrade City of Harrisonburg portion of required upgrades to HRRSA infrastructure following recommendations from the Level of Service Master Plan Report for HRRSA by Wiley & Wilson 2017. Allows for continued growth by expanding interceptor pipe capacity, helps reduce infiltration/inflow by pipe upgrades and reduces maintenance by pipe upgrades.

Justifications:

- x-Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- x-Increase revenues
- x-Improves service
- x-New service
- Convenience
- Other

Explanation:

Level of Service Master Plan for HRRSA has been adopted by HRRSA Board and proposes the following HRRSA debt service payments.
 2023-2042 Division 1 - \$847,516/yr (City Share 83% @ \$703,438/Yr)
 2027-2046 Division 2 - \$718,516/yr (City Share 83% @ \$596,368/yr)
 2031-2050 Division 3 - \$2,471,766/yr (City share 58% @ \$1,433,624/yr)
 2033-2052 Division 4 - \$544,836/yr (City share 58% @ \$316,005/yr)
 Expenses (Debt service payments by City):
 2020-\$0
 2021-\$0
 2022-\$0
 2023-\$703,438
 Funding 2020-2024 based on increasing rates to add \$150,000/year annually.
 Beyond (2025-2051) - \$59,265,834

Goals and Objectives

G 14
O 14.2

Alternative:

None.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses	\$0	\$0	\$0	\$0	\$703,438	\$703,438	\$59,265,834	\$60,672,710
Total	\$0	\$0	\$0	\$0	\$703,438	\$703,438	\$59,265,834	\$60,672,710

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$150,000	\$300,000	\$450,000	\$600,000	\$750,000	\$900,000	\$57,522,710	\$60,672,710
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$150,000	\$300,000	\$450,000	\$600,000	\$750,000	\$900,000	\$57,522,710	\$60,672,710

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: SCHOOL BUSES
Project Code: trans2
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** ONGOING
Department: 822081 **Status:** Active **Completion Date (FYE):** ONGOING

Description:

School buses are recommended to be replaced 10-12 years (150,000 miles)

Justifications:

- Mandated
- Remove hazards
- x-Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Federal & State EPA guidelines are becoming stronger to replace buses in 10 to 12 years.

Currently the Department has 15 buses that exceed guidelines

Alternative:

Try to get by with what we have. Operating costs will continue to rise.

Goals and Objectives

G 13
O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$400,000	\$425,000	\$425,000	\$425,000	\$450,000		\$2,125,000
Other Expenses								\$0
Total	\$0	\$400,000	\$425,000	\$425,000	\$425,000	\$450,000	\$0	\$2,125,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue		\$400,000	\$425,000	\$425,000	\$425,000	\$450,000		\$2,125,000
Enterprise Revenue								\$0
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$400,000	\$425,000	\$425,000	\$425,000	\$450,000	\$0	\$2,125,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: TRANSIT BUSES
Project Code: trans1
Project Priority: Priority 2 **Project Type:** ADDITION & REPLACEMENT **Start Date (FYE):** ONGOING
Department: 812081 **Status:** Active **Completion Date (FYE):** ONGOING

Description:

FY 2020 Replace 8 transit buses and 2 para transits
 FY 2021 4 para transits replacements
 FY 2022 7 transit replacements 1 expansion
 FY 2023 2 Expansion buses
 FY 2024 2 para transit replacements

Justifications:

Mandated
 Remove hazards
 x-Maintains service
 x-Increase efficiency
 Increase revenues
 x-Improves service
 New service
 Convenience
 Other

Explanation:

Para transit buses to be replaced have life of 7 years or 125,000 miles.
 Transit buses to be replaced have life of 12 years or 500,000 miles.

Alternative:

Cut service. Try to keep old buses running, maintenance cost will continue to rise. Level of service will drop and number of road calls will continue to rise.

Goals and Objectives

G 13
 O 13.2

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment		\$3,510,000	\$260,000	\$3,440,000	\$900,000	\$120,000		\$8,230,000
Other Expenses								\$0
Total	\$0	\$3,510,000	\$260,000	\$3,440,000	\$900,000	\$120,000	\$0	\$8,230,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue		\$351,000	\$26,000	\$344,000	\$90,000	\$12,000		\$823,000
Bond Proceeds								\$0
Grants		\$3,159,000	\$234,000	\$3,096,000	\$810,000	\$108,000		\$7,407,000
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$3,510,000	\$260,000	\$3,440,000	\$900,000	\$120,000	\$0	\$8,230,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: CITY LANDFILL CLOSURE & MONITORING 910142-48681
Project Code: PWSLCBG
Project Priority: Priority 1 **Project Type:** ADDITION **Start Date (FYE):** 2010
Department: 922041 **Status:** Active **Completion Date (FYE):** Ongoing

Description:

Cost of closing, maintenance, and monitoring of landfill per DEQ regulations.
 (A) Annual monitoring/testing and engineering costs for gas and groundwater.
 (B) Groundwater injections that are outlined in the landfill closure documents.

Justifications:

- x-Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

DEQ regulations require a program for closing existing landfill and monitoring groundwater and gas generation for 30 year period following DEQ closure approval.

Alternative:

None.

Goals and Objectives

G 14

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning		\$110,000	\$115,000	\$120,000	\$125,000	\$130,000	\$130,000	\$730,000
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses							\$1,403,600	\$1,403,600
Total	\$0	\$110,000	\$115,000	\$120,000	\$125,000	\$130,000	\$1,533,600	\$2,133,600

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue		\$110,000	\$115,000	\$120,000	\$125,000	\$130,000	\$1,533,600	\$2,133,600
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$110,000	\$115,000	\$120,000	\$125,000	\$130,000	\$1,533,600	\$2,133,600

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: North End Greenway Stream Restoration
Project Code: PWSWPR06
Project Priority: Priority 2 **Project Type:** NEW **Start Date (FYE):** 2017
Department: 910541 **Status:** Active **Completion Date (FYE):** Beyond

Description:

This project will earn credit towards Chesapeake Bay TMDL requirements of the city's MS4 permit. It will restore a portion of Blacks Run parallel to the proposed North End Greenway shared use path. The project is a PPEA design build. As a part of the PPEA, the City will purchase nutrient credits generated from the stream restoration project. The option will be available to purchase additional credits once the project has been completed.

Justifications:

- x-Mandated
- x-Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

Stream restoration has been shown to provide substantial nitrogen and sediment reductions at favorable cost efficiency when compared to other BMPs.

Alternative:

Pursue other projects, as identified in the Stormwater Improvement Plan.

Goals and Objectives

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses	\$1,435,000	\$327,611	\$327,611		\$327,611	\$327,611	\$984,779	\$3,730,223
Total	\$1,435,000	\$327,611	\$327,611	\$0	\$327,611	\$327,611	\$984,779	\$3,730,223

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$1,435,000	\$327,611	\$327,611		\$327,611	\$327,611	\$984,779	\$3,730,223
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$1,435,000	\$327,611	\$327,611	\$0	\$327,611	\$327,611	\$984,779	\$3,730,223

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



**Capital Improvement Program
FY2020 thru FY2024
Project Request Form**

Project Title: Stormwater Improvement Plan
Project Code: PWSWPL02
Project Priority: Priority 2 **Project Type:** NEW **Start Date (FYE):** 2017
Department: 910541 **Status:** Active **Completion Date (FYE):** 2023

Description:

Development of comprehensive stormwater improvement plan that identifies drainage areas within the City, major outfalls for those drainage areas, and provides planning for TMDL pollutant reductions. Outcome of plan will be a prioritized list of water quality improvement projects. 2023 funding is shown for the planned 5-yr update to the SWIP.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- x-Increase efficiency
- Increase revenues
- x-Improves service
- New service
- Convenience
- Other

Explanation:

This is to assist the City in meeting the Chesapeake Bay and local Special Conditions of the MS4 permit.

Alternative:

None.

Goals and Objectives

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$250,000				\$150,000			\$400,000
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses								\$0
Total	\$250,000	\$0	\$0	\$0	\$150,000	\$0	\$0	\$400,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$250,000				\$150,000			\$400,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$250,000	\$0	\$0	\$0	\$150,000	\$0	\$0	\$400,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Mountain View Drive Stream Restoration

Project Code: PWSWPR08

Project Priority: Priority 2

Project Type: CONSTRUCTION

Start Date (FYE): 2019

Department: 910541

Status: Active

Completion Date (FYE): 2020

Description:

This project will improve an existing stream behind townhomes located on Mountain View Drive. The project would include a complete stream restoration.

Justifications:

- Mandated
- Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Stream restoration has been shown to provide substantial nitrogen and sediment reductions at favorable cost efficiency when compared to other BMPS.

Alternative:

Pursue other projects, as identified in the Stormwater Improvement Plan.

Goals and Objectives

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$250,000	\$1,167,337						\$1,417,337
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses								\$0
Total	\$250,000	\$1,167,337	\$0	\$0	\$0	\$0	\$0	\$1,417,337

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$125,000	\$583,669						\$708,669
Bond Proceeds								\$0
Grants	\$125,000	\$583,669						\$708,669
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$250,000	\$1,167,338	\$0	\$0	\$0	\$0	\$0	\$1,417,338

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: VMRC Extended Detention Pond
Project Code: PWSWPR10
Project Priority: Priority 2 **Project Type:** NEW **Start Date (FYE):** 2020
Department: 910541 **Status:** Active **Completion Date (FYE):** 2022

Description:

An enhanced extended detention pond is proposed within the plot of land directly across from VMRC. This project was identified in the Stormwater Improvement Plan as one that would yield high pollutant removal for Chesapeake Bay TMDL compliance.

Public Works is submitting a grant application in October to assist with the cost of design and construction.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Enhanced extended detention pond facilities have been shown to provide substantial nitrogen and phosphorus reductions at favorable cost efficiency when compared to other BMPS. VMRC has agreed to donate easements to the city to facilitate this project's design, construction, and long-term maintenance.

Goals and Objectives

G 14
O 14.3

Alternative:

Pursue other projects, as identified in the Stormwater Improvement Plan.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land		\$10,000						\$10,000
Construction				\$637,500				\$637,500
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$10,000	\$0	\$637,500	\$0	\$0	\$0	\$647,500

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue		\$5,000		\$318,750				\$323,750
Bond Proceeds								\$0
Grants		\$5,000		\$318,750				\$323,750
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$10,000	\$0	\$637,500	\$0	\$0	\$0	\$647,500

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Temporary Credit Purchases
Project Code: PWSWPR11
Project Priority: Priority 2 **Project Type:** NEW **Start Date (FYE):** 2023
Department: 910541 **Status:** Active **Completion Date (FYE):** Beyond

Description:

The City has established a contract with HRRSA to begin purchasing annual Nitrogen, Phosphorus, and Sediment credits beginning 2023 to assist with Chesapeake Bay TMDL compliance requirements for the second and third permit cycles. The contract may be renewed for a five year extension after June 30, 2023.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

Temporary credits must be purchased annually and do not last year to year like permanent credits or projects. Credit availability through HRRSA is unstable due to HRRSA's similarly changing regulatory requirements. The cost of these nutrients are significantly less than permanent credits.

Goals and Objectives

Alternative:

Pursue projects, permanent credits, and programs as identified in the Stormwater Improvement Plan.

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning					\$90,000		\$90,000	\$180,000
Land								\$0
Construction								\$0
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000	\$180,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue					\$90,000		\$90,000	\$180,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$90,000	\$0	\$90,000	\$180,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: East Market Street Regenerative Stormwater Conveyance
Project Code: PWSWPR13
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** Prior
Department: 910541 **Status:** Active **Completion Date (FYE):** 2020

Description:

The City of Harrisonburg Public Works Department seeks to retrofit an existing riprap-lined median with significant erosion concerns into a regenerative stormwater conveyance (RSC) channel within the center median of East Market Street. This regenerative step-pool conveyance channel creates a series of riffles and pools that retain and treat water quality volume by filtering through the underlying engineered soils into a pipe under drain collection system.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

This is to assist the City in meeting the Chesapeake Bay and local Special Conditions of the MS4 permit. The contributing drainage area to the proposed RSC channel is approximately 103.8 acres and the median is located on a City entrance corridor that serves approximately 30,000 vehicles per day. The project was designed, approved for SLAF funding, and bid in 2016, but bids were higher than expected.

Goals and Objectives

G 14
O 14.3

Alternative:

Seek other projects.

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning	\$114,500							\$114,500
Land								\$0
Construction		\$856,500						\$856,500
Equipment								\$0
Other Expenses								\$0
Total	\$114,500	\$856,500	\$0	\$0	\$0	\$0	\$0	\$971,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue	\$57,250	\$428,250						\$485,500
Bond Proceeds								\$0
Grants	\$57,250	\$428,250						\$485,500
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$114,500	\$856,500	\$0	\$0	\$0	\$0	\$0	\$971,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Waterman Drive Drainage and Water Quality Improvement
Project Code: PWSWPR14
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2022
Department: 910541 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Waterman Drive has a history of drainage challenges. A water quality and quantity project was identified in the Stormwater Improvement Plan. After the heavy summer rains, a property owner reached out about frontage improvements in this same project location. Additionally, Public Works has been in contact with property owners along the opposite side of the street. Public Works is interested in pursuing preliminary design and eventual construction for drainage improvements and water quality enhancements along either side of Waterman Drive.

Justifications:

Mandated
 x-Remove hazards
 Maintains service
 Increase efficiency
 Increase revenues
 Improves service
 New service
 Convenience
 Other

Explanation:

This project could assist the City in meeting the Chesapeake Bay and local Special Conditions of the MS4 permit.

Goals and Objectives

Alternative:

Pursue water quantity projects along Waterman Drive that do not include water quality components.

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$114,500				\$114,500
Land								\$0
Construction							\$4,025,550	\$4,025,550
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$114,500	\$0	\$0	\$4,025,550	\$4,140,050

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue				\$114,500			\$4,025,550	\$4,140,050
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$114,500	\$0	\$0	\$4,025,550	\$4,140,050

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: Eastern Mennonite University SWM Facilities
Project Code: PWSWPR15
Project Priority: Priority 2 **Project Type:** IMPROVEMENT **Start Date (FYE):** 2022
Department: 910541 **Status:** Active **Completion Date (FYE):** Beyond

Description:

The City of Harrisonburg Public Works Department seeks to retrofit two existing stormwater management facilities on the Eastern Mennonite University (EMU) campus. These facilities drain all of EMU's campus as well as neighborhoods uphill from campus. EMU has agreed to donate easements to facilitate the design, construction, and long-term maintenance of these facilities.

Justifications:

- Mandated
- x-Remove hazards
- Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

This is to assist the City in meeting the Chesapeake Bay and local Special Conditions of the MS4 permit. One of these projects was identified in the City's Stormwater Improvement Plan.

Alternative:

Seek other projects outlined in the Stormwater Improvement Plan.

Goals and Objectives

G 14
O 14.3

Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning				\$170,000				\$170,000
Land				\$10,000				\$10,000
Construction							\$1,000,000	\$1,000,000
Equipment								\$0
Other Expenses								\$0
Total	\$0	\$0	\$0	\$180,000	\$0	\$0	\$1,000,000	\$1,180,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue				\$180,000			\$1,000,000	\$1,180,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$180,000	\$0	\$0	\$1,000,000	\$1,180,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0



Capital Improvement Program FY2020 thru FY2024 Project Request Form

Project Title: SWM Equipment Replacement
Project Code: SWMER01
Project Priority: Priority 1 **Project Type:** REPLACEMENT **Start Date (FYE):** 2024
Department: 472041 **Status:** Active **Completion Date (FYE):** Beyond

Description:

Future replacement of Ravo Sweepers.

Justifications:

- x-Mandated
- Remove hazards
- x-Maintains service
- Increase efficiency
- Increase revenues
- Improves service
- New service
- Convenience
- Other

Explanation:

These vehicles provide substantial credits towards the City's MS4 requirements, and they need to be operational at all times. As the equipment ages, it will be important to keep the fleet in good working order, so that these credits can be maintained at an appropriate level.

Alternative:

Without replacement of this equipment when needed, the City would need to spend more funds on different BMP's in order to compensate for the loss of the credits generated by this equipment.

Goals and Objectives

G 14
O 14.3

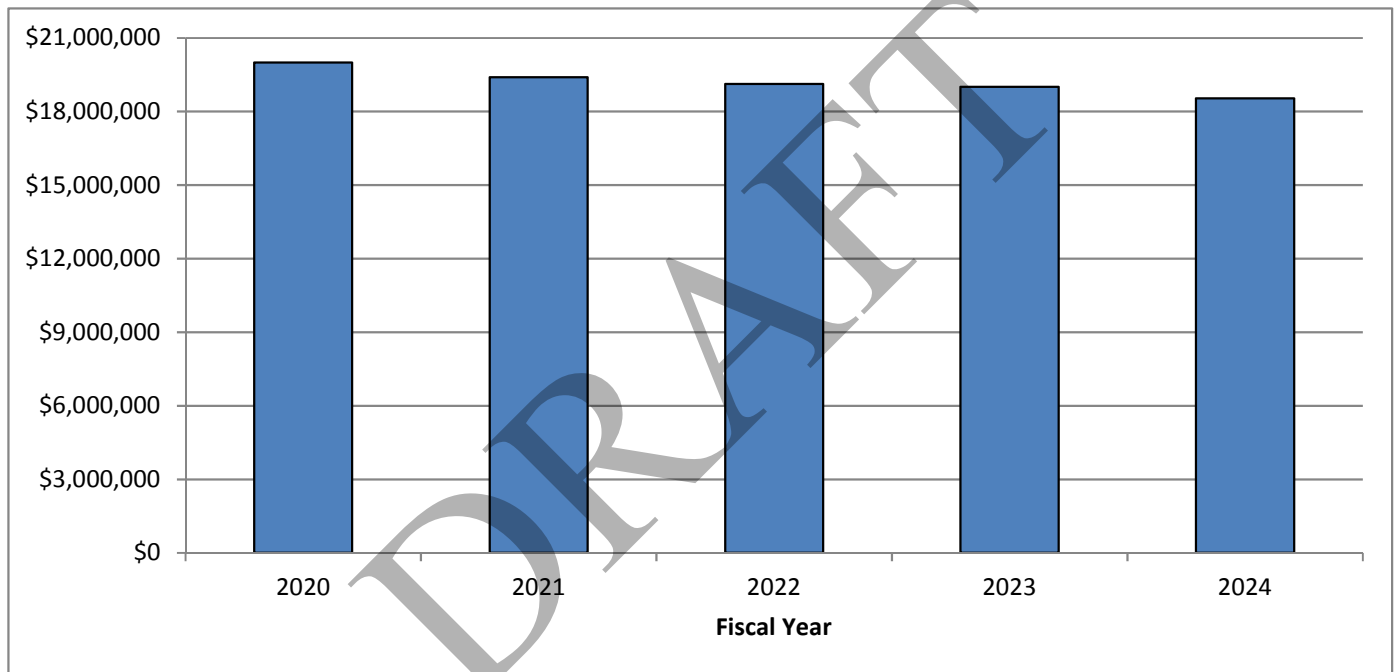
Expenditures:	Prior	2020	2021	2022	2023	2024	Future	Total
Planning								\$0
Land								\$0
Construction								\$0
Equipment						\$250,000	\$255,000	\$505,000
Other Expenses								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$250,000	\$255,000	\$505,000

Funding Sources:	Prior	2020	2021	2022	2023	2024	Future	Total
General Revenue								\$0
Enterprise Revenue						\$250,000	\$255,000	\$505,000
Bond Proceeds								\$0
Grants								\$0
Capital Project Fund								\$0
Other Revenue								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$250,000	\$255,000	\$505,000

Operating Impacts:	Prior	2020	2021	2022	2023	2024	Future	Total
Personnel								\$0
Operating								\$0
Capital								\$0
Offsets								\$0
Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**CITY OF HARRISONBURG, VIRGINIA
DEBT SERVICE PAYMENTS - ALL FUNDS
NEXT FIVE FISCAL YEARS**

Fiscal Year	Principal	Interest	Total Debt Service
2020	13,473,087	6,532,086	20,005,173
2021	13,439,620	5,963,844	19,403,464
2022	13,696,599	5,424,097	19,120,696
2023	14,130,033	4,880,382	19,010,415
2024	14,209,931	4,328,326	18,538,257



City of Harrisonburg, Virginia
General Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	10,198,989	2,483,149	4,020,911	4,870,611	1,400,000	-	-	-	-	-
Revenues:										
General property taxes	37,681,028	39,493,276	43,253,826	47,727,059	48,348,000	50,119,100	51,030,700	51,959,500	52,915,500	53,890,200
Other local taxes	37,968,995	39,854,862	40,508,212	43,481,115	44,068,800	45,597,000	46,379,000	47,321,900	48,136,800	49,117,400
License permits and privilege fees	507,263	446,923	913,713	643,359	623,100	633,700	644,500	655,500	665,400	675,400
Fines and forfeitures	538,218	580,946	705,107	851,160	760,000	760,000	772,500	785,300	798,300	811,600
Use of money and property	171,576	222,885	293,776	573,286	562,500	892,700	901,700	919,700	947,100	984,700
Charges for services	1,447,066	1,427,871	1,427,972	1,363,827	1,428,500	1,442,600	1,469,900	1,498,100	1,526,500	1,555,600
Miscellaneous revenues	5,149,815	5,336,096	5,317,341	5,413,956	5,547,500	5,552,600	5,554,400	5,556,300	5,559,200	5,562,100
Recovered costs	857,212	966,962	1,146,269	914,577	861,744	830,600	838,600	834,200	830,800	838,400
State revenue	10,152,578	11,098,030	10,376,815	10,266,800	10,202,191	10,343,300	10,460,700	10,608,200	10,730,500	10,883,600
Federal revenue	241,982	141,831	351,339	400,803	130,800	47,500	47,500	47,500	47,500	47,500
Non-revenue receipts	213,013	8,084	197,631	43,743	50,000	50,000	50,000	50,000	50,000	50,000
Transfers - Operating	1,777,920	1,846,800	1,846,800	1,983,050	2,036,700	2,040,500	2,044,400	2,048,300	2,052,300	2,056,400
Transfers - Other	-	800,000	30,532	-	-	-	-	-	-	-
Total revenue including fund balance	106,905,657	104,707,717	110,390,244	118,533,345	116,019,835	118,309,600	120,193,900	122,284,500	124,259,900	126,472,900
Operating Expenditures:										
General government	4,236,192	4,464,693	4,739,095	5,260,661	5,647,898	5,801,200	5,958,900	6,120,500	6,286,700	6,457,500
Public safety	18,899,643	20,139,714	20,844,482	21,954,480	23,728,123	24,374,700	25,039,100	25,721,900	26,423,100	27,143,700
Public works	7,047,675	6,948,361	6,852,143	7,141,789	7,853,799	8,137,700	8,429,600	8,729,900	9,038,800	9,356,200
Health and welfare	985,078	1,178,650	1,240,931	1,338,397	1,533,796	1,579,800	1,627,200	1,676,000	1,726,300	1,778,100
Parks and recreation	4,719,779	4,825,705	4,892,940	4,979,835	5,740,706	5,898,000	6,059,400	6,225,300	6,395,900	6,570,000
Community development	3,003,489	3,303,747	3,440,442	3,503,512	3,580,597	4,435,000	4,514,900	4,597,000	4,681,700	4,768,800
Joint operations	7,589,337	7,801,667	8,247,104	8,040,913	8,649,898	8,909,400	9,176,700	9,452,000	9,735,600	10,027,700
Reserve for contingencies	-	-	-	-	215,000	215,000	215,000	215,000	215,000	215,000
Debt service and fiscal charges	12,487,223	13,274,911	14,274,649	15,103,202	15,548,819	15,900,700	15,237,600	14,954,900	14,850,800	14,374,500
Transfers - Other than Schools	5,669,511	2,139,979	2,335,208	2,525,703	2,494,118	2,561,400	2,630,700	2,702,100	2,775,700	2,851,500
Transfers - Schools	28,836,860	29,895,539	30,062,539	33,262,539	34,612,539	35,650,900	36,720,400	37,822,000	38,956,700	40,125,400
Total operating expenditures	93,474,787	93,972,966	96,929,533	103,111,031	109,605,293	113,463,800	115,609,500	118,216,600	121,086,300	123,668,400
Cash/Funds Available for Capital	13,430,870	10,734,751	13,460,711	15,422,314	6,414,542	4,845,800	4,584,400	4,067,900	3,173,600	2,804,500
Capital Expenditures:										
Capital outlay	4,976,827	5,096,481	3,912,765	5,157,491	4,991,915	5,061,600	5,145,700	5,232,200	5,321,600	5,413,100
Transfers to Capital projects	3,223,000	915,707	3,178,000	2,847,850	1,422,627	1,465,300	1,509,300	1,554,600	1,601,200	1,649,200
Total capital expenditures	8,199,827	6,012,188	7,090,765	8,005,341	6,414,542	6,526,900	6,655,000	6,786,800	6,922,800	7,062,300
Revenue Over (Under) Expenditures	5,231,043	4,722,563	6,369,946	7,416,973	-	(1,681,100)	(2,070,600)	(2,718,900)	(3,749,200)	(4,257,800)

City of Harrisonburg, Virginia

Water Fund

Schedule of Cash/Funds Available for Capital Outlays and Capital Projects

For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	71,545	124,798	103,773	465,948	1,167,740	-	-	-	-	-
Revenues:										
License permits & privilege fees	259,500	184,900	255,800	301,200	200,000	200,000	200,000	200,000	200,000	200,000
Use of money and property	24,159	73,352	83,275	149,204	58,000	202,000	202,000	202,000	202,000	202,000
Charges for services	6,335,852	6,759,919	7,333,786	7,964,752	8,629,660	9,012,500	9,192,800	9,376,700	9,564,300	9,755,700
Miscellaneous	4,414	14,115	9,538	28,975	6,000	6,000	6,000	6,000	6,000	6,000
Recovered costs	31,585	49,153	63,465	65,730	30,000	30,000	30,000	30,000	30,000	30,000
Intergovernmental revenue	8,500	-	-	-	-	-	-	-	-	-
Transfers - Depreciation, etc.	1,859,205	1,883,544	1,928,478	1,904,136	1,484,800	1,514,500	1,544,800	1,575,700	1,607,200	1,639,300
Transfers - General Fund	15,658	-	-	-	-	-	-	-	-	-
Total revenue including fund balance	8,610,419	9,089,781	9,778,114	10,879,946	11,576,200	10,965,000	11,175,600	11,390,400	11,609,500	11,833,000
Operating Expenditures:										
Personal service	1,573,643	1,659,160	1,795,154	1,769,191	1,992,462	2,042,300	2,093,400	2,145,700	2,199,300	2,254,300
Fringe benefits	535,229	585,943	604,665	604,537	715,103	733,000	751,300	770,100	789,400	809,100
Purchased services	184,853	188,609	186,944	216,721	241,020	248,300	255,700	263,400	271,300	279,400
Internal services	15,007	12,847	16,537	12,108	17,800	18,300	18,800	19,400	20,000	20,600
Other charges	485,212	494,168	479,034	494,643	531,160	547,100	563,500	580,400	597,800	615,700
Materials and supplies	287,475	266,887	436,406	282,757	349,200	359,700	370,500	381,600	393,000	404,800
Depreciation	1,859,205	1,883,544	1,928,478	1,904,136	1,484,800	1,514,500	1,544,800	1,575,700	1,607,200	1,639,300
Payment in lieu of taxes	483,069	502,902	503,034	507,174	571,800	589,000	606,700	624,900	643,600	662,900
Debt service and fiscal charges	784,420	779,795	1,054,624	1,057,412	1,525,643	1,523,700	1,522,400	1,522,800	1,521,600	1,525,000
Transfers - Other	1,016,607	1,063,488	1,069,665	1,085,295	1,088,820	1,093,800	1,098,900	1,104,200	1,109,600	1,115,200
Total operating expenditures	7,224,720	7,437,342	8,074,540	7,933,974	8,517,808	8,669,700	8,826,000	8,988,200	9,152,800	9,326,300
Cash/Funds Available for Capital	1,385,698	1,652,439	1,703,574	2,945,972	3,058,392	2,295,300	2,349,600	2,402,200	2,456,700	2,506,700
Capital Expenditures:										
Capital outlay	86,491	156,542	211,221	100,089	223,000	229,700	236,600	243,700	251,000	258,500
Transfers - Capital projects	617,485	815,000	965,000	1,829,000	2,835,392	-	-	-	-	-
Total capital expenditures	703,976	971,542	1,176,221	1,929,089	3,058,392	229,700	236,600	243,700	251,000	258,500
Revenue Over (Under) Expenditures	681,722	680,896	527,353	1,016,883	-	2,065,600	2,113,000	2,158,500	2,205,700	2,248,200

City of Harrisonburg, Virginia
Sewer Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	257,166	709,315	1,412,855	223,970	772,320	-	-	-	-	-
Revenues:										
License permits and privilege fees	388,500	275,000	380,500	495,300	250,000	250,000	250,000	250,000	250,000	250,000
Use of money and property	4,399	13,792	40,222	100,737	25,000	162,500	165,800	169,100	172,500	176,000
Charges for services	9,874,734	10,232,221	10,339,739	10,646,203	10,813,940	11,461,900	11,690,900	11,936,100	12,174,500	12,417,700
Miscellaneous	2,550	1,660	-	5,053	1,000	1,000	1,000	1,000	1,000	1,000
Recovered costs	31,188	33,254	62,935	35,904	20,000	20,000	20,000	20,000	20,000	20,000
Transfers - Depreciation, etc.	1,406,250	1,408,410	1,423,152	1,449,408	1,506,900	1,522,000	1,552,400	1,583,400	1,615,100	1,647,400
Transfers - General Fund	11,711	-	-	-	-	-	-	-	-	-
Transfers - Capital Projects Fund	-	-	6,665	-	-	-	-	-	-	-
Total revenue including fund balance	11,976,498	12,673,652	13,666,067	12,956,575	13,389,160	13,417,400	13,680,100	13,959,600	14,233,100	14,512,100
Operating Expenditures:										
Personal service	1,040,615	1,085,078	1,052,890	1,104,524	1,418,834	1,454,300	1,490,700	1,528,000	1,566,200	1,605,400
Fringe benefits	386,931	430,380	381,897	398,043	534,616	548,000	561,700	575,700	590,100	604,900
Purchased services	56,333	50,980	99,139	72,666	89,264	91,900	94,700	97,500	100,400	103,400
Internal services	192,244	179,270	227,950	232,287	232,800	239,800	247,000	254,400	262,000	269,900
Other charges	141,386	128,563	132,958	154,063	181,684	187,100	192,700	198,500	204,500	210,600
Materials and supplies	116,111	131,255	141,667	151,348	119,700	123,300	127,000	130,800	134,700	138,700
Depreciation	1,406,250	1,408,410	1,423,152	1,449,408	1,506,900	1,522,000	1,552,400	1,583,400	1,615,100	1,647,400
Payment to HRRSA - Operations	3,405,920	3,424,665	3,321,597	2,812,864	3,160,000	3,239,000	3,320,000	3,403,000	3,488,100	3,575,300
Payment to HRRSA - Debt service	2,742,164	2,803,927	2,851,982	2,901,775	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000	3,200,000
Payment in lieu of taxes	318,888	311,046	325,890	354,567	390,600	402,300	414,400	426,800	439,600	452,800
Transfers - Other	900,834	936,432	937,675	939,410	939,762	940,300	940,800	941,300	941,800	942,400
Transfers - Reserve for HRRSA	-	-	-	-	150,000	154,500	159,100	163,900	168,800	173,900
Total operating expenditures	10,707,677	10,890,007	10,896,797	10,570,955	11,924,160	12,102,500	12,300,500	12,503,300	12,711,300	12,924,700
Cash/Funds Available for Capital	1,268,821	1,783,645	2,769,271	2,385,620	1,465,000	1,314,900	1,379,600	1,456,300	1,521,800	1,587,400
Capital Expenditures:										
Capital outlay	86,127	381,374	381,494	120,441	129,000	132,900	136,900	141,000	145,200	149,600
Transfers - Capital projects	400,000	425,000	1,575,000	515,000	1,336,000	-	-	-	-	-
Total capital expenditures	486,127	806,374	1,956,494	635,441	1,465,000	132,900	136,900	141,000	145,200	149,600
Revenue Over (Under) Expenditures	782,694	977,272	812,777	1,750,180	-	1,182,000	1,242,700	1,315,300	1,376,600	1,437,800

City of Harrisonburg, Virginia
School Transportation Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	475,000	26,897	50,000	117,832	51,000	-	-	-	-	-
Revenues:										
Use of money and property	263	349	1,134	1,058	2,000	2,000	2,000	2,000	2,000	2,000
Charges for services	3,026,804	3,082,840	3,352,561	3,745,820	4,094,128	4,061,700	4,168,500	4,278,200	4,391,000	4,506,800
Miscellaneous	28,563	10,113	100	39,997	30,000	30,000	30,000	30,000	30,000	30,000
Transfers - General Fund	7,915	-	-	-	-	-	-	-	-	-
Total revenue including fund balance	3,538,545	3,120,199	3,403,794	3,904,707	4,177,128	4,093,700	4,200,500	4,310,200	4,423,000	4,538,800
Operating Expenditures:										
Personal service	1,260,884	1,303,114	1,535,172	1,702,865	1,914,127	1,837,000	1,882,900	1,930,000	1,978,300	2,027,800
Fringe benefits	506,930	530,358	551,464	634,102	759,346	768,300	787,500	807,200	827,400	848,100
Purchased services	34,027	47,055	82,301	77,766	72,235	74,400	76,600	78,900	81,300	83,700
Internal services	654,524	649,470	759,644	894,136	895,035	921,900	949,600	978,100	1,007,400	1,037,600
Other charges	99,703	94,529	93,064	98,258	104,355	107,500	110,700	114,000	117,400	120,900
Materials and supplies	19,531	12,357	22,795	14,594	16,830	17,300	17,800	18,300	18,800	19,400
Total operating expenditures	2,575,599	2,636,884	3,044,440	3,421,721	3,761,928	3,726,400	3,825,100	3,926,500	4,030,600	4,137,500
Cash/Funds Available for Capital	962,946	483,315	359,354	482,986	415,200	367,300	375,400	383,700	392,400	401,300
Capital Expenditures:										
Capital outlay	433,902	311,471	293,075	361,871	415,200	400,000	425,000	425,000	425,000	450,000
Transfers - Capital projects	225,000	-	-	-	-	-	-	-	-	-
Total capital expenditures	658,902	311,471	293,075	361,871	415,200	400,000	425,000	425,000	425,000	450,000
Revenue Over (Under) Expenditures	304,044	171,843	66,280	121,115	-	(32,700)	(49,600)	(41,300)	(32,600)	(48,700)

City of Harrisonburg, Virginia
Public Transportation Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	460,365	81,098	153,137	28,181	-	-	-	-	-	-
Revenues:										
Use of money and property	112,601	81,763	89,412	111,728	95,000	95,100	97,000	98,900	100,900	102,900
Charges for service	1,802,811	1,798,093	1,831,829	1,949,217	1,983,036	2,005,800	2,028,800	2,052,200	2,075,800	2,099,800
Miscellaneous	16,309	39,656	-	186,763	10,000	10,000	10,000	10,000	10,000	10,000
Recovered costs	99,585	65,579	116,959	111,712	111,988	114,200	114,200	114,200	114,200	114,200
Intergovernmental revenue	3,633,814	2,698,187	6,255,351	2,950,954	6,236,029	3,276,000	3,341,300	3,407,900	3,475,800	3,545,000
Transfers - Depreciation, etc.	216,660	216,660	216,660	216,660	-	-	-	-	-	-
Transfers - General Fund	258,489	210,000	250,000	322,858	250,000	250,000	250,000	250,000	250,000	250,000
Total revenue including fund balance	6,600,635	5,191,035	8,913,347	5,878,073	8,686,053	5,751,100	5,841,300	5,933,200	6,026,700	6,121,900
Operating Expenditures:										
Personal service	2,006,588	2,114,232	2,186,732	2,290,203	2,615,837	2,681,200	2,748,200	2,816,900	2,887,300	2,959,500
Fringe benefits	496,286	568,404	597,251	621,436	696,554	714,000	731,900	750,200	769,000	788,200
Purchased services	114,359	124,316	184,828	76,578	74,950	77,200	79,500	81,900	84,400	86,900
Internal services	1,278,480	1,169,438	1,224,590	1,393,316	1,506,975	1,552,200	1,598,800	1,646,800	1,696,200	1,747,100
Other charges	254,040	246,022	238,624	259,998	339,247	349,400	359,900	370,700	381,800	393,300
Materials and supplies	37,599	64,996	35,088	33,902	42,490	43,800	45,100	46,500	47,900	49,300
Depreciation	216,660	216,660	216,660	216,660	-	-	-	-	-	-
Transfers - General Fund	-	-	-	125,000	170,000	173,400	176,900	180,400	184,000	187,700
Total operating expenditures	4,404,012	4,504,068	4,683,773	5,017,092	5,446,053	5,591,200	5,740,300	5,893,400	6,050,600	6,212,000
Cash/Funds Available for Capital	2,196,623	686,968	4,229,575	860,981	3,240,000	159,900	101,000	39,800	(23,900)	(90,100)
Capital Expenditures:										
Capital outlay	1,810,568	482,052	4,119,287	241,208	3,240,000	376,000	51,800	370,600	117,400	40,200
Transfers - Capital projects	339,809	-	-	-	-	-	-	-	-	-
Total capital expenditures	2,150,378	482,052	4,119,287	241,208	3,240,000	376,000	51,800	370,600	117,400	40,200
Revenue Over (Under) Expenditures	46,245	204,916	110,288	619,774	-	(216,100)	49,200	(330,800)	(141,300)	(130,300)

City of Harrisonburg, Virginia
Sanitation Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	248,822	3,351,213	1,143,401	1,250,048	1,229,215	-	-	-	-	-
Revenues:										
Use of money and property	4,975	9,657	9,165	40,915	34,600	58,800	58,800	58,800	58,800	58,800
Charges for services	5,521,920	4,217,377	4,246,922	4,220,176	4,220,000	4,220,000	4,220,000	4,220,000	4,220,000	4,220,000
Miscellaneous	61,205	36,307	18,250	8,966	-	-	-	-	-	-
Recovered costs:	1,887,662	1,430,566	143,253	110,288	101,825	-	-	-	-	-
Sale of RRF	-	-	4,200,000	-	-	-	-	-	-	-
Transfers - Depreciation, etc.	1,237,212	200,000	200,000	200,000	-	-	-	-	-	-
Transfers - General Fund	2,874,988	-	-	-	-	-	-	-	-	-
Transfers - Capital Projects Fund	-	-	10,969	-	-	-	-	-	-	-
Total revenue including fund balance	11,836,784	9,245,120	9,971,958	5,830,392	5,585,640	4,278,800	4,278,800	4,278,800	4,278,800	4,278,800
Operating Expenditures:										
Personal service	1,841,589	1,229,960	887,208	815,035	1,027,176	1,052,900	1,079,200	1,106,200	1,133,900	1,162,200
Fringe benefits	755,978	453,007	360,445	361,556	461,264	472,800	484,600	496,700	509,100	521,800
Purchased services	1,949,491	927,055	1,024,931	899,235	1,376,330	851,100	876,600	902,900	930,000	957,900
Internal services	201,894	157,572	133,556	141,716	152,500	157,100	161,800	166,700	171,700	176,900
Other charges	1,034,927	595,912	168,003	64,606	82,818	85,300	87,900	90,500	93,200	96,000
Materials and supplies	45,509	24,431	14,230	11,507	42,150	43,400	44,700	46,000	47,400	48,800
Depreciation	1,237,212	200,000	200,000	200,000	-	-	-	-	-	-
Debt service and fiscal charges	2,650,970	2,644,715	2,174,548	2,164,751	2,161,852	1,591,100	1,587,100	1,583,100	1,580,200	1,578,700
Total operating expenditures	9,717,570	6,232,651	4,962,921	4,658,406	5,304,090	4,253,700	4,321,900	4,392,100	4,465,500	4,542,300
Cash/Funds Available for Capital	2,119,214	3,012,469	5,009,037	1,171,985	281,550	25,100	(43,100)	(113,300)	(186,700)	(263,500)
Capital Expenditures:										
Capital outlay	385,903	92,259	231,797	111,874	208,050	214,300	220,700	227,300	234,100	241,100
Transfers - Capital projects	500,000	2,075,517	2,600,000	265,000	73,500	-	-	-	-	-
Total capital expenditures	885,903	2,167,776	2,831,797	376,874	281,550	214,300	220,700	227,300	234,100	241,100
Revenue Over (Under) Expenditures	1,233,311	844,693	2,177,240	795,111	-	(189,200)	(263,800)	(340,600)	(420,800)	(504,600)

City of Harrisonburg, Virginia
Stormwater Fund
Schedule of Cash/Funds Available for Capital Outlays and Capital Projects
For the Ten Year Period July 1, 2014 Through June 30, 2024

	Fiscal Years									
	Actual 2015	Actual 2016	Actual 2017	Actual 2018	Budgeted 2019	Projected 2020	Projected 2021	Projected 2022	Projected 2023	Projected 2024
Amount from fund balance	-	-	604,205	228,401	243,900	-	-	-	-	-
Revenues:										
Use of money and property	-	1,581	10,917	30,395	22,000	22,200	22,600	23,100	23,600	24,100
Charges for services	-	2,261,632	1,253,823	1,346,996	1,327,651	1,327,700	1,327,700	1,327,700	1,327,700	1,327,700
Miscellaneous	-	-	-	-	-	-	-	-	-	-
Recovered costs	-	-	-	275	-	-	-	-	-	-
Intergovernmental revenue	-	-	-	-	-	-	-	-	-	-
Transfers - Depreciation, etc.	-	-	-	-	-	-	-	-	-	-
Transfers - General Fund	-	-	-	-	-	-	-	-	-	-
Total revenue including fund balance	-	2,263,213	1,868,945	1,606,067	1,593,551	1,349,900	1,350,300	1,350,800	1,351,300	1,351,800
Operating Expenditures:										
Personal service	-	49,118	93,212	106,651	171,683	176,000	180,400	184,900	189,500	194,200
Fringe benefits	-	15,100	28,258	32,142	54,341	55,700	57,100	58,500	60,000	61,500
Purchased services	-	119,888	118,907	207,412	187,521	193,100	198,900	204,900	211,000	217,300
Internal services	-	3,797	13,038	25,791	33,000	34,000	35,000	36,100	37,200	38,300
Other charges	-	6,437	11,676	14,121	16,306	16,800	17,300	17,800	18,300	18,800
Materials and supplies	-	4,963	10,877	6,130	12,300	12,700	13,100	13,500	13,900	14,300
Transfers - General Fund	-	-	-	11,250	19,900	20,400	20,900	21,400	21,900	22,400
Total operating expenditures	-	199,302	275,968	403,498	495,051	508,700	522,700	537,100	551,800	566,800
Cash/Funds Available for Capital	-	2,063,910	1,592,977	1,202,569	1,098,500	841,200	827,600	813,700	799,500	785,000
Capital Expenditures:										
Capital outlay	-	274,381	454,102	69,150	19,500	19,500	19,500	19,500	19,500	19,500
Transfers - Capital projects	-	502,802	825,000	885,000	1,079,000	-	-	-	-	-
Total capital expenditures	-	777,183	1,279,102	954,150	1,098,500	19,500	19,500	19,500	19,500	19,500
Revenue Over (Under) Expenditures	-	1,286,727	313,875	248,419	-	821,700	808,100	794,200	780,000	765,500