FY17-FY22 The City of Frederick Capital Improvements Program

THE CITY OF FREDERICK

CAPITAL IMPROVEMENTS PROGRAM

FY2017-2022

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Capital Improvements Program FY 2017-2022

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THE CITY OF FREDERICK, MARYLAND
CAPITAL IMPROVEMENTS PROGRAM
FY 2017 - 2022

	PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY FY 17	FY 18	FY 19	FY 20	FY 21	FY 22
		GENERAL FUND									
		FACILITIES									
	110007	DPW Emergency Generator	400,000	400,000	150,000	250,000	0	0	0	0	0
X	110008	Salt Storage	1,400,000	1,400,000	0	0	200,000	1,200,000	0	0	0
	120005	Downtown Hotel Project	1,350,000	250,000	250,000	0	0	0	0	0	0
	120006	City Hall Roof Replacement	1,100,000	1,100,000	0	0	100,000	1,000,000	0	0	0
	120007	Sustainability Initiatives	420,923	300,000	200,000	0	100,000	0	0	0	0
	210009	New Police Headquarters	216,000	216,000	91,000	0	125,000	0	0	0	0
		ROADS									
	310004	Monocacy Blvd./Rt 15 Interchange	1,130,000	1,130,000	1,130,000	0	0	0	0	0	0
	310006	Christophers Crossing Corridor - Ft Detrick	3,800,000	3,486,000	486,000	0	3,000,000	0	0	0	0
	310007	Christophers Crossing Corridor - Sanner	4,000,000	4,000,000	0	4,000,000	0	0	0	0	0
	310304	Monocacy Blvd. - Central Section	31,319,119	22,739,406	22,739,406	0	0	0	0	0	0
	320007	Opossumtown Pk./TJ Dr. Intersection Imps.	5,003,315	4,286,315	4,286,315	0	0	0	0	0	0
	320015	Butterfly Lane Improvements - Realignment	3,050,000	1,989,450	0	0	1,989,450	0	0	0	0
	320018	Christophers Crossing Corridor and Intersection Impts	3,788,082	3,788,082	278,082	0	80,000	430,000	3,000,000	0	0
	320024	Fairview Avenue Full Depth Reconstruction	741,224	741,224	800,000	(58,776)	0	0	0	0	0
	320025	Rosemont Avenue Full Depth Reconstruction	500,000	500,000	500,000	0	0	0	0	0	0
	320026	South Carroll Street Full Depth Reconstruction	610,000	610,000	410,000	0	200,000	0	0	0	0
	320029	Street Maintenance	4,877,491	4,877,491	1,550,000	827,491	500,000	500,000	500,000	500,000	500,000
X	320030	Lindbergh Ave Full Depth Reconstruction	900,000	900,000	0	0	900,000	0	0	0	0
X	320031	Grove Blvd Full Depth Reconstruction	900,000	900,000	0	0	0	900,000	0	0	0
X	320103	Rosemont Ave / Baughman's Lane Intersection	3,300,000	3,300,000	300,000	0	500,000	2,500,000	0	0	0
	330005	Bridge Rehabilitation	2,800,000	2,800,000	500,000	300,000	500,000	500,000	500,000	500,000	0
		ROADSIDE INFRASTRUCTURE									
	340000	Streetlight Upgrades	5,438,147	5,287,047	3,787,047	0	300,000	300,000	300,000	300,000	300,000
	340007	Bentz Street Pedestrian Crossing	215,099	215,099	250,000	(34,901)	0	0	0	0	0
	340008	ADA Intersection & Corridor Improvements	2,250,000	2,250,000	0	100,000	475,000	600,000	475,000	600,000	0
	340102	Sidewalk Retrofit	693,296	290,524	290,524	0	0	0	0	0	0
	340401	New Traffic Signal Construction	2,174,420	2,174,420	1,144,420	350,000	170,000	170,000	340,000	0	0
	340402	Traffic Light Conversion - ARRA	164,732	38,580	38,580	0	0	0	0	0	0
	380001	Shared Use Path Plan Improvements	3,155,009	2,405,009	2,030,009	375,000	0	0	0	0	0
X	380004	Rails to Trails Program	9,900,000	3,580,000	0	0	2,000,000	400,000	1,180,000	0	0

X -- New Project

THE CITY OF FREDERICK, MARYLAND
CAPITAL IMPROVEMENTS PROGRAM
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	PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY FY 17	FY 18	FY 19	FY 20	FY 21	FY 22
		PARKS									
	410001	Carroll Creek Linear Park	35,728,380	28,331,882	28,331,882	0	0	0	0	0	0
	410007	Riverside Center Park	1,570,480	1,453,000	843,000	0	50,000	560,000	0	0	0
	410011	Avalon Park	384,000	384,000	0	384,000	0	0	0	0	0
	410017	Clover Ridge Park	438,000	438,000	0	35,000	403,000	0	0	0	0
	411202	West Side Regional Park	19,153,018	18,120,157	17,820,157	300,000	0	0	0	0	0
	450102	Grove Stadium Improvements	5,807,500	2,275,000	2,212,500	12,500	12,500	12,500	12,500	12,500	0
	480158	Weinberg Center - HVAC	1,050,000	1,050,000	1,050,000	0	0	0	0	0	0
		Total General Fund:	159,728,235	128,006,686	91,468,922	6,840,314	11,604,950	9,072,500	6,307,500	1,912,500	800,000
		Debt Funding		(70,730,919)	(63,730,919)	(4,000,000)	(3,000,000)	0	0	0	0
		Special Assessments		(5,559,029)	(5,617,805)	58,776	0	0	0	0	0
		Impact Fees		(2,241,437)	(1,119,437)	(719,000)	(403,000)	0	0	0	0
		City Pay-As-You-Go		49,475,301	21,000,761	2,180,090	8,201,950	9,072,500	6,307,500	1,912,500	800,000
		WATER AND SEWER FUND									
		WATER									
	110007	DPW Emergency Generator	250,000	250,000	0	250,000	0	0	0	0	0
	310004	Monocacy Blvd./Rt 15 Interchange	1,600,000	1,600,000	1,600,000	0	0	0	0	0	0
	310304	Monocacy Blvd. - Central Section - Ph. II	9,095,074	9,095,074	9,095,074	0	0	0	0	0	0
	320015	Butterfly Lane Improvements	500,000	500,000	0	500,000	0	0	0	0	0
	360009	Water Distribution Upgrades	17,431,350	17,428,133	12,928,133	4,000,000	500,000	0	0	0	0
	360011	New Design Water Plant Expansion	52,250,000	52,250,000	52,250,000	0	0	0	0	0	0
	360015	North Side Water Tank	5,305,000	4,305,000	4,305,000	0	0	0	0	0	0
	360018	Water Loss Reduction	16,665,275	16,665,275	10,665,275	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
	360022	Water Resource Project	14,203,160	14,073,255	13,973,255	0	100,000	0	0	0	0
	360023	Ballenger Creek Interconnect	3,653,483	3,653,483	2,653,483	0	1,000,000	0	0	0	0
	360031	Fishing Creek Pipeline	13,580,000	13,580,000	2,080,000	0	0	11,500,000	0	0	0
	360032	SCADA System	600,000	600,000	600,000	0	0	0	0	0	0
	360033	Lake Linganore	7,829,900	7,704,900	174,900	3,780,000	3,750,000	0	0	0	0
	360034	Butterfly Lane Water Tank: Lead Abatement	2,700,000	2,700,000	200,000	2,500,000	0	0	0	0	0
	360035	City/County Inter-Jurisdictional Study	250,000	250,000	250,000	0	0	0	0	0	0
	360036	40 West/LR Dingle Pump Station	2,850,000	2,850,000	150,000	200,000	0	2,500,000	0	0	0
X	360037	Linganore Water Plant Filters Rehab	1,250,000	1,250,000	0	250,000	1,000,000	0	0	0	0
X	360038	Dredging of Fishing Creek	1,000,000	1,000,000	0	0	1,000,000	0	0	0	0
	360601	Watershed Land Acquisition	1,162,115	781,878	681,878	0	100,000	0	0	0	0

X -- New Project

THE CITY OF FREDERICK, MARYLAND
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FY 2017 - 2022

	PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY FY 17	FY 18	FY 19	FY 20	FY 21	FY 22
		SEWER									
	370007	Wastewater Flowmeter Replacement	820,000	820,000	820,000	0	0	0	0	0	0
	370009	Ballenger-McKinney WWTP	17,483,000	17,483,000	17,483,000	0	0	0	0	0	0
	370010	Gas House Pk WWTP Solids Proc Rehab	6,087,883	3,099,270	3,099,270	0	0	0	0	0	0
	370011	Gas House Pk WWTP ENR Upgrade	56,841,720	33,279,416	33,279,416	0	0	0	0	0	0
X	370012	Sewer Master Plan Update	400,000	400,000	0	400,000	0	0	0	0	0
	370300	Inflow and Infiltration Reduction	13,591,837	13,478,267	7,478,267	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
		Total Water and Sewer Fund:	247,399,797	219,096,951	173,766,951	13,880,000	9,450,000	16,000,000	2,000,000	2,000,000	2,000,000
		Debt Funding		(169,251,280)	(144,809,815)	(9,191,465)	(3,750,000)	(11,500,000)	0	0	0
		Special Assessments		(4,875,375)	(2,786,840)	(2,088,535)	0	0	0	0	0
		Impact Fees		0	0	0	0	0	0	0	0
		Pay-As-You-Go		44,970,296	26,170,296	2,600,000	5,700,000	4,500,000	2,000,000	2,000,000	2,000,000
		AIRPORT FUND									
	380051	FAA Part 77	805,340	87,148	87,148	0	0	0	0	0	0
	380054	Airport Property Acquisitions	17,114,000	1,263,000	1,263,000	0	0	0	0	0	0
	380062	Property Acquisition - Bowman's Farm	5,540,946	5,540,946	5,540,946	0	0	0	0	0	0
	380064	Aquire Toms Property Easements	1,267,445	37,867	6,867	0	0	0	0	0	31,000
	380067	Bailes Lane Demolition and Site Work	18,459,220	503,212	178,212	100,000	75,000	75,000	75,000	0	0
	380068	Acquire/Obstruction Removal - Waffle House	1,438,871	117,951	117,951	0	0	0	0	0	0
	380073	Equipment Storage Building	1,539,503	934,876	34,876	900,000	0	0	0	0	0
	380076	North East T-Hangars	14,000,000	14,000,000	0	0	0	1,400,000	12,600,000	0	0
	380086	North County Easements	100,000	2,500	0	0	0	0	1,250	1,250	0
	380087	F1 Site (Hanagar)	4,000,000	4,000,000	0	0	400,000	3,600,000	0	0	0
	380088	Corp Hangar P4	6,500,000	300,000	0	0	300,000	0	0	0	0
	380090	Ramp Rehabilitation	4,300,000	107,500	0	0	0	0	0	10,750	96,750
	380091	Airport Layout Plan Update	250,000	6,250	0	0	0	0	6,250	0	0
		Total Airport Fund:	75,315,325	26,901,250	7,229,000	1,000,000	775,000	5,075,000	12,682,500	12,000	127,750
		Debt Funding		(24,893,773)	(5,693,773)	(900,000)	(700,000)	(5,000,000)	(12,600,000)	0	0
		Special Assessments		0	0	0	0	0	0	0	0
		Impact Fees		0	0	0	0	0	0	0	0
		Pay-As-You-Go		2,007,477	1,535,227	100,000	75,000	75,000	82,500	12,000	127,750
		PARKING FACILITIES FUND									
	380408	Site G Parking Garage	16,856,000	16,856,000	2,356,000	0	14,500,000	0	0	0	0
	380414	Court Street Deck Rehab	612,650	612,650	612,650	0	0	0	0	0	0
	380415	Parking Garage Gateway Mural	75,000	75,000	75,000	0	0	0	0	0	0
		Total Parking Facilities Fund:	17,543,650	17,543,650	3,043,650	0	14,500,000	0	0	0	0
		Debt Funding		(15,635,000)	(1,135,000)	0	(14,500,000)	0	0	0	0
		Special Assessments		0	0	0	0	0	0	0	0
		Impact Fees		0	0	0	0	0	0	0	0
		Pay-As-You-Go		1,908,650	1,908,650	0	0	0	0	0	0

X -- New Project

THE CITY OF FREDERICK, MARYLAND
CAPITAL IMPROVEMENTS PROGRAM
FY 2017 - 2022

PRJ. NO.	PROJECT NAME	TOTAL PROJECT	TOTAL CITY SHARE REQUIRED	CITY SHARE APPROVED TO DATE	CITY SHARE ONLY FY 17	FY 18	FY 19	FY 20	FY 21	FY 22
	STORMWATER FUND									
110007	DPW Emergency Generator	250,000	250,000	0	250,000	0	0	0	0	0
350001	South Street Storm Drain	5,046,894	5,046,894	746,894	300,000	2,000,000	2,000,000	0	0	0
350004	Watershed Management	500,000	500,000	500,000	0	0	0	0	0	0
350005	Culler Lake Silt Removal	2,503,500	2,110,000	2,335,000	(225,000)	0	0	0	0	0
350006	Pump Station 4 Rehab	1,150,000	1,150,000	750,000	150,000	250,000	0	0	0	0
350007	Stream Restoration	550,000	350,000	150,000	200,000	0	0	0	0	0
350020	Carroll Creek Flood Control Project	55,155,005	22,395,438	22,395,438	0	0	0	0	0	0
	Total Stormwater Fund:	65,155,399	31,802,332	26,877,332	675,000	2,250,000	2,000,000	0	0	0
	Debt Funding		(19,484,703)	(15,484,703)	0	(2,000,000)	(2,000,000)	0	0	0
	Special Assessments		(383,000)	(383,000)	0	0	0	0	0	0
	Impact Fees		0	0	0	0	0	0	0	0
	Pay-As-You-Go		11,934,629	11,009,629	675,000	250,000	0	0	0	0
	TOTAL CIP:	565,142,406	423,350,869	302,385,855	22,395,314	38,579,950	32,147,500	20,990,000	3,924,500	2,927,750

X -- New Project

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **110007**

PROJECT NAME: **DPW Emergency Generator**

PROJECT MANAGER: **Deputy Director of Public Works -- Operations**

SCOPE:

The intent of this project is to engineer, purchase and install an emergency generator system to power the City's Department of Public Works facility located at 111 Airport Drive East. Operations located at this facility are responsible for responding to situations under any condition (routine, weather-related, emergency, etc.). Currently there is no backup source in order to accommodate power failure.

This project will include the following deliverables:

1. An engineered system with a complete set of specifications for backup power to serve all facilities within the DPW compound
2. Installation of the system
3. Testing of the newly installed system
4. Testing protocol for continued preventive maintenance
5. Spare parts kit
6. Secondary internet connections and backup servers

JUSTIFICATION:

The Department of Public Works Operations Group cannot effectively respond to City wide emergencies (hurricanes, high wind, snow, tornado, and other threats) without backup power.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	400.000	900.000	(500.000)	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	400.000	900.000	(500.000)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	400.000	150.000	250.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	750.000	(750.000)	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	400.000	900.000	(500.000)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

DPW Emergency Generator 110007

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **110008**

PROJECT NAME: **Salt Storage**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake 2 phases of construction to provide adequate storage of salt in 2 locations within the City. At a minimum the project will include:

- Design of a ~3000 ton salt storage facility (First Facility) at the City Public Works yard at 111 Airport Drive East to replace the outdated salt dome structures currently in use
- Design of a ~1500 ton storage facility with bathroom amenity (Second Facility) located at the Hayward Road water tank site (or a location deemed appropriate)
- The design will include all necessary permits, easements and bidding documents
- Hiring of a contractor and the construction of the first facility (Phase One)
- Hiring of a contractor and the construction of the second facility (Phase Two)

JUSTIFICATION:

Completed projects will improve the DPW response time for efficiently applying de-icing materials within the growing City limits. The existing domes are under-sized, need to be collocated and are inefficient to load.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	200.000	-	-	200.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,200.000	-	-	-	1,200.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,400.000	-	-	200.000	1,200.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,400.000	-	-	200.000	1,200.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,400.000	-	-	200.000	1,200.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

Salt Storage 110008

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **120005**

PROJECT NAME: **Downtown Hotel Project**

PROJECT MANAGER: **Director of Economic Development**

SCOPE

To fund the acquisition, planning, design, and engineering, and consulting studies related to the feasibility and construction of a privately owned and operated, full-service, 200-Room, Downtown Frederick Hotel and Conference Center with 20,000 square feet of conference/event/meeting space.

JUSTIFICATION

The Downtown Frederick Hotel and Conference Center Advisory Committee is seeking to attract a private hotel developer team through a Public Private Partnership to construct, own and operate a full service hotel with event and meeting space in Downtown Frederick including a large ballroom. The key project details are as follows:

- Privately Owned and Operated
- 200 Rooms (+/-) with 15,000 to 20,000 SF Event/Meeting Space w/ ballroom, pre-function & breakout space
- Restaurant and lounge
- Green building design/construction
- Full-Service Operation
- Onsite parking for hotel guests and offsite parking for large events
- Guest Amenities – pool, exercise room, business center

The MEG (Major Employers Group) consists of seventeen of the largest employers in Frederick County/City – each with over 400 employees. In 2010, MEG selected the development of a downtown full-service hotel with sufficient meeting space to meet the needs of the business and citizen community as their key implementation priority. The Mayor and Board of Aldermen concurred that the development of a fully privately-owned and operated downtown hotel and conference center with no operational subsidy from local government is a critical priority and seek to facilitate its development.

The Downtown Frederick Hotel Advisory Committee initiated two demand and feasibility studies which both confirmed the market demand for a 200-room full-service hotel with 15,000 – 20,000 square feet of meeting space including a large ballroom. The second study was conducted by the Maryland Stadium Authority to ensure the integrity of the analysis. The City, on behalf of the Advisory Committee, issued a RFP to select the site/developer and received two qualified proposals. The Advisory Committee recommended the Plamondon Companies development team's proposal for a full-service Marriott Hotel with 207 guest rooms and approximately 24,000 square feet of meeting space. The project financing will likely take the form of a Public Private Partnership with the hotel developer responsible for the bulk of the cost including the hotel. The City and County may participate with Tax Increment Financing, and/or Hotel Tax to assist with public infrastructure including meeting space. State Investment could be through bond bill or MEDCO or Stadium Authority. Timeline anticipates design, financing & entitlement approvals in 2015, construction in 2016, and completion in 2017.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	500.000	500.000	-	-	-	-	-	-
LAND/R.O.W.	850.000	-	850.000	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,350.000	500.000	850.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	250.000	250.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	1,100.000	250.000	850.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,350.000	500.000	850.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

Downtown Hotel Project 120005

Fund 306 - General CIP

CIP NUMBER: **120006**

PROJECT NAME: **City Hall Roof Replacement**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The intent of this project is to replace the roof and other elements on or near the roof area in order to maintain the City Hall building adequately and improve the appearance and function of the building. This will be accomplished by replacement in-kind of the entire slate shingle roof with 16" x 12" ASTEM C406-889, Grade SE slate shingles in Vermont Black; replacement in kind of copper valley, copper chimney, copper wall, and gravel stop flashing; replacement in kind of copper gutters and replacement in kind of copper downspouts but with a larger cross section of 3 ¾" by 5"; replacement of deteriorated wood framing and fascia/soffit and gutter support; replacement of existing bird-style snow guards with a rail system; replacement of sanitary vent flashings with copper flashing and infill of exhaust vent with slate roofing; and replacement of membrane roof in-kind.

Phase I: Planning

- Hire consultant to prepare construction bid documents (to include construction sequence of work)
- Obtain all necessary permits (to include all necessary Historic Preservation approvals)
- Provide Construction Management and Inspection services during renovation

Phase II: Construction

- Hire contractor to install improvements
- Keep safe access to City Hall during renovation process

JUSTIFICATION:

The condition of the existing roof slates suggests a variety of ages and different quarries are represented. Many of the existing slates are badly weathered, cracked, and exhibit lamination, efflorescence, and evidence of water absorption. There is also evidence of water absorption on the underside of some of the roof sheathing indicating the need for replacement. The 20% threshold of damaged or deteriorated slates referred to in the Preservation Brief for Slate Roofs has been exceeded.

Throughout the entire roof area there is evidence of partial repairs and small areas of replacement. The previous repairs of many cracked and broken slates appear to have been done with silicone sealant and incorporated slate material that did not match the color of the original slates. The use of bibs made from corrosive steel is evident over many sections of the roof.

The gutter as installed does not allow for expansion along its length as the leading edge is tacked to the wood fascia with copper nails. This restriction of movement causes stresses to build up and be relieved at bends and fold in the copper sheet. Over time, those areas have fatigued and caused small cracks or holes in the gutter. Although the downspouts have been restored to operation, the size of two downspouts on the East elevation and one on the West elevation do not seem adequate to handle heavy rain events. Cornice fascia and soffit in some areas are deteriorating causing them to sag. The snow guard is inappropriate for the amount of contributing roof area. Consequently, large build ups of snow and ice have overrun and damaged the snow guards.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	100.000	-	-	100.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,000.000	-	-	-	1,000.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,100.000	-	-	100.000	1,000.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,100.000	-	-	100.000	1,000.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,100.000	-	-	100.000	1,000.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

City Hall Roof Replacement 120006

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **120007**

PROJECT NAME: **Sustainability Initiatives**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake projects and studies that will result in a more sustainable community. The projects could include:

- Upgrades to City Facilities (Examples: WWTP / WTP)
- Energy Management within City Buildings
- Public Outreach and Education
- Environmental Projects (Examples: Stream Bank Restoration, Increasing Urban Canopy)
- Demonstration Projects (Examples: Solar, Geo Thermal, Wind)
- City Match for Other Programs, Loans and Grants
- Sustainability Planning

JUSTIFICATION:

Elements contained in this project will allow the City of Frederick to become a leader in sustainability by improving air & water quality, conservation of resources and having an educated community.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	100.000	-	-	100.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	320.923	200.000	120.923	-	-	-	-	-
TOTAL EXPENDITURES	420.923	200.000	120.923	100.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	300.000	200.000	-	100.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	101.966	-	101.966	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	18.957	-	18.957	-	-	-	-	-
TOTAL REVENUES	420.923	200.000	120.923	100.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Sustainability Initiatives 120007

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **210009**

PROJECT NAME: **New Police Headquarters**

PROJECT MANAGER: **Chief of Police**

SCOPE:

Location for new facility on 5 Acres of City owned property on Airport Drive recommended and accepted by Mayor and Board of Aldermen in 2005. Preliminary estimated budget at that time was $17,933,659. If the Airport Drive location is no longer available would suggest looking for an opportunity to locate Police Headquarters at another site with a preferred location close to the downtown area. City reduced funding requirements from $17,933,659 to $11,000,000 in 2005. Ideally, the property would be sufficient to house all entities of the Department as well as enough area to handle all of our vehicle parking and storage needs. The initial CIP request is to fund an updated space needs study.

JUSTIFICATION:

Police Department has been located in the Court House since 1984 and has outgrown its existing space. This has led to various departments being located throughout the City and not at strategic locations. To meet the demands of operating the City Police Department, correct various code deficiencies, and to consolidate operations into one location for improved efficiency, a project was initiated to create a new City of Frederick Police Headquarters facility. A consultant was retained in October, 2003 to verify projected space needs, staffing, and operational requirements. Consultant performed a review of all existing Police Department facilities and functions. Consultant identified a total space requirement of 71,787 sq. ft. to meet the departmental needs. Various potential sites were reviewed and preliminary budget prepared in 2005. The project has since been removed from the CIP plans.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	216.000	91.000	-	125.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	216.000	91.000	-	125.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	125.000	-	-	125.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	91.000	91.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	216.000	91.000	-	125.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

New Police Headquarters 210009

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **310004**

PROJECT NAME: **Monocacy Blvd / RT 15 Interchange**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

The intent of this project is to complete the engineering and design of the project as prescribed in the planning process. A memorandum of understanding and letter of agreement between the City, County and State was entered into in order to fund the design with SHA responsible for managing the design. City Staff will participate in meetings and provide data and input where applicable.

JUSTIFICATION:

Safety along US 15 will be enhanced by the construction of the interchange by eliminating at-grade crossings in The City of Frederick area. The connection will also provide a vital link between the east and west sides of The City of Frederick on the north side of town. This connection is expected to help alleviate congestion at the US 15 at Opossumtown Pike/Motter Avenue interchange.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,130.000	1,130.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,130.000	1,130.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	630.000	630.000	-	-	-	-	-	-
DEBT ISSUE	500.000	500.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,130.000	1,130.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Monocacy Blvd./Rt 15 Interchange 310004

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **310006**

PROJECT NAME: **Christophers Crossing Corridor – Ft Detrick**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project includes the design, permitting, and construction of Christophers Crossing through Fort Detrick's 'Area B', which ultimately extends from US 15 in the north around the City to US 40 in the west. Christophers Crossing in this section will be a four lane road and associated curb and gutter, street lights, sidewalks / bike paths, etc. The improvements include a traffic signal at Christopher's Crossing and Shookstown Road as well as a bridge over Rock Creek. These improvements were identified within the 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study.

Partial funding for design & permitting is anticipated from the Waverly View development.

JUSTIFICATION:

The 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study identified improvements needed for the corridor in order to account for anticipated regional developments from the expansion of Fort Detrick to approved mixed-use and residential development to anticipated annexation properties.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	800.000	800.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,000.000	-	-	3,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,800.000	800.000	-	3,000.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	486.000	486.000	-	-	-	-	-	-
DEBT ISSUE	3,000.000	-	-	3,000.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	314.000	314.000	-	-	-	-	-	-
TOTAL REVENUES	3,800.000	800.000	-	3,000.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Christophers Crossing Corridor - Fort Detrick 310006

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **310007**

PROJECT NAME: **Christophers Crossing Corridor – Sanner**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project includes the design, permitting, and construction of Christophers Crossing through the Sanner Farm, which ultimately extends from US 15 in the north around the City to US 40 in the west. This connection is vital to providing multiple safe & efficient connections from residential areas in the northwest to downtown Frederick and US 15. Christophers Crossing will be a four lane road with auxiliary lanes and associated curb and gutter, street lights, sidewalks / bike paths, etc. These improvements were identified within the 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study.

Per the Keller Farm Annexation, the development is designing and permitting Christophers Crossing through Sanner Farm, including a round-about at Walter Martz Road/Poole Jones Road and the widening of Walter Martz roadway section up to Tuscarora Creek. Additionally, the annexation's regional transportation contribution may be used for construction.

JUSTIFICATION:

The 2009 Christophers Crossing/Yellow Springs Road Corridor Traffic Study identified improvements needed to the corridor in order to account for anticipated regional developments from the expansion of Fort Detrick to approved mixed-use and residential development to anticipated annexation properties. This connection is essential to the future development of the City-owned Sanner Farm, which potentially includes multiple public facilities.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,000.000	-	4,000.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	4,000.000	-	4,000.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	4,000.000	-	4,000.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	4,000.000	-	4,000.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Christophers Crossing Corridor - Sanner Farm 310007

Fund 306 - General CIP

CIP NUMBER: **310304**

PROJECT NAME: **Monocacy Boulevard - Central Section – Phase II**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

The design and construction of Monocacy Boulevard Central Section which extends from Gas House Pike in the north to Hughes Ford Road in the south, including the design and construction of the bridge over Monocacy River, extension of Schifferstadt Boulevard and East Church Street to connect with Monocacy Boulevard, and the design and construction of the bridge over Carroll Creek. Monocacy Boulevard in this section will be a four lane road with associated curb and gutter and sidewalks / bike paths. This project also includes completion of the Carroll Creek Flood Control Levee along Gas House Pike. Portions of the design/construction fronting the Nicodemus property shall be paid for by the property owner as stipulated in their annexation agreement. This project includes associated water and sewer infrastructure.

JUSTIFICATION:

This section of roadway will create an eastern loop for motorists to go around Frederick. It will relieve congestion in town and provide additional choices for motorists to travel without entering already congested arterials. The roadway will provide key relief needed for East Street which is carrying significantly more traffic since the opening of the East Street extension off of I-70 in 2009.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	2,680.000	2,680.000	-	-	-	-	-	-
LAND/R.O.W.	7,700.000	7,700.000	-	-	-	-	-	-
UTILITIES	100.000	100.000	-	-	-	-	-	-
CONSTRUCTION	20,839.119	20,839.119	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	31,319.119	31,319.119	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	3,234.904	3,234.904	-	-	-	-	-	-
DEBT ISSUE	18,970.778	18,970.778	-	-	-	-	-	-
SPECIAL ASSESSMENT	533.724	533.724	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	8,350.000	8,350.000	-	-	-	-	-	-
OTHER - Sale of Land/Dev.	229.713	229.713	-	-	-	-	-	-
TOTAL REVENUES	31,319.119	31,319.119	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Monocacy Blvd. - Central Section 310304

Fund 306 - General CIP

CIP NUMBER: **320007**

PROJECT NAME: **Opossumtown Pike / Thomas Johnson Drive Intersection Improvements**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

Widen northbound Opossumtown Pike to lengthen the left-turn and right-turn bays at Thomas Johnson Drive. The right-turn bay will become an auxiliary lane from the northbound US 15 off-ramp up to Thomas Johnson Drive. Widen southbound Opossumtown Pike to provide an additional through lane from Thomas Johnson Drive down to the southbound US 15 on-ramp. This will include relocation of utilities, reconstruction of sidewalk, and traffic signal modifications. Widen southbound Thomas Johnson Drive to install additional left-turn lane at Opossumtown Pike. Widen northbound Thomas Johnson Drive to install a separate right-turn lane. Install medians on Thomas Johnson Drive to limit access and improve safety and operations at the access drives located too close to the signal at Opossumtown Pike.

JUSTIFICATION:

The intersection of Opossumtown Pike at Thomas Johnson Drive currently operates at a LOS F during peak periods. This project will greatly improve the intersection's operations. The project is also needed to correspond with the SHA project that will rebuild and widen the Opossumtown Pike/Motter Avenue Bridge over US 15. The SHA will provide a free right turn from the northbound US 15 ramp to northbound Opossumtown Pike at Thomas Johnson Drive. This will significantly reduce delay and congestion in the interchange area and at the intersection of Opossumtown Pike at Thomas Johnson Drive.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	903.400	903.400	-	-	-	-	-	-
LAND/R.O.W.	751.000	751.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,247.820	3,247.820	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	101.095	101.095	-	-	-	-	-	-
TOTAL EXPENDITURES	5,003.315	5,003.315	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,679.315	2,679.315	-	-	-	-	-	-
DEBT ISSUE	1,607.000	1,607.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	500.000	500.000	-	-	-	-	-	-
OTHER	217.000	217.000	-	-	-	-	-	-
TOTAL REVENUES	5,003.315	5,003.315	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Opossumtown Pike/Thos. Johnson Intersection 320007

Fund 306 - General CIP

CIP NUMBER: **320015**

PROJECT NAME: **Butterfly Lane Improvements - Realignment**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project is for the design construction and the relocation of a multi-lane Butterfly Lane section through the Hargett Farm to tie in to MD180 opposite Swallowtail Drive. The existing Butterfly Lane will terminate prior to MD180 via a cul-de-sac.

Several area developments have contributed funding toward this project.

JUSTIFICATION:

This project will enhance roadway operations and provide additional capacity along Butterfly Lane, and will greatly improve traffic issues along the MD 180 corridor by spacing the intersection of Butterfly Lane at MD 180 a greater distance from Himes Avenue.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	50.000	50.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,000.000	-	-	3,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,050.000	50.000	-	3,000.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,989.450	-	-	1,989.450	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	500.000	-	-	500.000	-	-	-	-
COUNTY GRANT	100.000	-	-	100.000	-	-	-	-
OTHER	460.550	50.000	-	410.550	-	-	-	-
TOTAL REVENUES	3,050.000	50.000	-	3,000.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Butterfly Lane Improvements - Realignment 320015

Fund 306 - General CIP

CIP NUMBER: **320018**

PROJECT NAME: **Christophers Crossing Corridor and Intersection Improvements**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

Complete corridor and intersection improvements in the Christophers Crossing Corridor in accordance with the Corridor Study completed in 2009. The recommendations contained in the document reflect the improvements of data collection in 2008. Prior to moving forward with the planned and programmed improvements, re-evaluation of the forecasts will take place to insure the improvement is needed.

In 2016-17, project should design and construct the widening of Christopher's Crossing from Opossumtown Pike to McClellan Drive and the traffic signal at Christopher's Crossing and Opossumtown Pike in order to serve the additional traffic anticipated with the completion of the US15/Monocacy interchange.

Project includes the widening and dualizing of Christophers Crossing between the future Thomas Johnson Drive intersection included within the SHA's US 15/Monocacy Blvd interchange project and Opossumtown Pike.

JUSTIFICATION:

These corridor and intersections improvements are needed due to the development and expansion of Ft Detrick, mixed-use and residential development in already existing City lands, as well as future annexation properties, and overall background traffic increases.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	201.200	71.200	-	30.000	100.000	-	-	-
LAND/R.O.W.	50.000	-	-	50.000	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,536.882	206.882	-	-	330.000	3,000.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,788.082	278.082	-	80.000	430.000	3,000.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	3,788.082	278.082	-	80.000	430.000	3,000.000	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	3,788.082	278.082	-	80.000	430.000	3,000.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

Christophers Crossing Corridor and Intersection Improvement Program

320018

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017 - 2022

CIP NUMBER: **320024**

PROJECT NAME: **Fairview Avenue Full Depth Reconstruction**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This is a full depth reconstruction of the roadway on Fairview Avenue between West 7th Street and Rosemont Avenue. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards.

JUSTIFICATION:

The current paving section does not meet the City Standard which has resulted in multiple failures of the asphalt surface. The Street Maintenance Department has performed numerous repairs to this section of street due to the insufficient section.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	741.224	800.000	(58.776)	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	741.224	800.000	(58.776)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	741.224	800.000	(58.776)	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	741.224	800.000	(58.776)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Fairview Avenue Reconstruction 320024

Fund 306 - General CIP

CIP NUMBER: **320025**

PROJECT NAME: **Rosemont Avenue Full Depth Reconstruction**

PROJECT MANAGER: **Deputy Director of Public Works -- Operations**

SCOPE:

This is a full depth reconstruction of the roadway on Rosemont Avenue between West 2nd Street and North Bentz Street. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards. This project will commence with the coordination of a water main upgrade in this area.

JUSTIFICATION:

The current roadway has experienced multiple utility cuts and failures in the asphalt surface. The high volume of heavy traffic has detrimentally affected the stability of the roadway. It also has numerous concrete patches which promote the unevenness of the surface which affects the smoothness of the street.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	500.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	500.000	500.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	500.000	500.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	500.000	500.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Rosemont Avenue Full Depth Reconstruction 320025

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **320026**

PROJECT NAME: **South Carroll Street – Full Depth Reconstruction**

PROJECT MANAGER: **Deputy Director of Public Works -- Operations**

SCOPE:

This is a full depth reconstruction of the roadway on South Carroll Street between East South Street and Clark Place. Work includes curb, gutter and ADA improvements as well as the removal and replacement of the street surface and subgrade to meet City Standards.

JUSTIFICATION:

The current paving section does not meet the City Standard which has resulted in multiple failures of the asphalt surface. The Street Maintenance Department has performed numerous repairs to this section of street due to the insufficient section.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	610.000	410.000	-	200.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	610.000	410.000	-	200.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	610.000	410.000	-	200.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	610.000	410.000	-	200.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

South Carroll Street Full Depth Reconstruction 320026

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **320029**

PROJECT NAME: **Street Maintenance**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project involves the repair and resurfacing of various streets throughout the City. Work may involve milling the existing asphalt surface to remove deteriorated asphalt, patching existing asphalt surfaces to repair localized deterioration, installation of new handicap ramps to meet ADA requirements, replacement of damaged curb/gutter, and laying new asphalt surfaces. Streets for each year's program are determined based on road condition, traffic volume and other factors. Streets anticipated for future projects are detailed in the "Pavement Condition Assessment Reports prepared by EnterInfo and dated 12/05/14" with the following recommended for FY17: Funding will dictate the number of streets completed each budget year.

Street Name	From	To	Estimated Cost*
Fairview Avenue	West 12th Street	West 7th Street	$ 130,000.00
Heather Ridge Drive	Taney Avenue	Taney Avenue	$ 250,000.00
Prospect Boulevard	Jefferson Street	Dead End	$ 250,000.00
North Market Street	7th Street	13th Street	$ 325,000.00
Monarch Road	Butterfly Lane	Dead End	$ 20,000.00
Numerous Alleys**			

**** The above costs are based on current FY16 contract pricing and do not include adding curb/gutter and/or sidewalk.***
*****There are numerous alleys ranked near the top of the street survey list. We anticipate working these in as funding allows.***

JUSTIFICATION:

This work is necessary to maintain the roads and streets throughout the City. Asphalt pavements deteriorate over time due to weather, traffic, utility cuts and age. By resurfacing streets in a timely manner, major street repairs can be avoided. Resurfacing a street will extend the useful life by 15 – 25 years.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,877.491	1,550.000	827.491	500.000	500.000	500.000	500.000	500.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	4,877.491	1,550.000	827.491	500.000	500.000	500.000	500.000	500.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	4,327.491	1,000.000	827.491	500.000	500.000	500.000	500.000	500.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	550.000	550.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	4,877.491	1,550.000	827.491	500.000	500.000	500.000	500.000	500.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Street Maintenance 320029

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **320030**

PROJECT NAME: **Lindbergh Avenue Full Depth Reconstruction**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake the full depth reconstruction of Lindbergh Avenue between the intersections with Rosemont and 2nd Street. At a minimum the project will include:

- Removal of the existing surface asphalt and base materials, curb and gutter
- Reconstruction to the City Standard for a collector street
- Installation of new curb/gutter and ADA ramps
- Repair of storm drains, valve boxes as required

JUSTIFICATION:

The City is required to provide safe passage for pedestrian and motoring public along its rights-of-way. Routine maintenance and reconstruction will ensure this requirement for public safety.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	900.000	-	-	900.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	900.000	-	-	900.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	900.000	-	-	900.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	900.000	-	-	900.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Lindbergh Ave Full Depth Reconstruction 320030

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **320031**

PROJECT NAME: **Grove Boulevard Full Depth Reconstruction**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake the full depth reconstruction of Grove Boulevard between the intersections with Rosemont and 2nd Street. At a minimum the project will include:

- Removal of the existing surface asphalt and base materials, curb and getter
- Reconstruction to the City Standard for a collector street
- Installation of new curb/gutter and ADA ramps
- Repair of storm drains, valve boxes as required

JUSTIFICATION:

The City is required to provide safe passage for pedestrian and motoring public along its rights-of-way. Routine maintenance and reconstruction will ensure this requirement for public safety.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	900.000	-	-	-	900.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	900.000	-	-	-	900.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	900.000	-	-	-	900.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	900.000	-	-	-	900.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Grove Blvd Full Depth Reconstruction 320031

Fund 306 - General CIP

CIP NUMBER: **320103**

PROJECT NAME: **Rosemont Ave/Baughman's Lane Intersection Improvements**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

Realign the intersection of Rosemont Ave/Baughman's Lane/Military Road from a 5-legged intersection to a standard 4-legged intersection. Realign the south leg of intersection (Baughman's Lane) to the east approximately 75-ft from existing centerline, eliminating the offset between Military Rd and Baughman's Lane. Improvement length is approximately 250-ft long and will include four-lanes starting at the intersection and tapering down to the existing two-lane section just short of Baughman's Lane Bridge. Additionally, the project will include:

- Disconnect utilities and demolish 1-story building at #1706
- New curb, gutter, sidewalk along both sides of realigned Baughman's Lane
- Reconstruct portions of the traffic signal and retime for optimal traffic flow
- Demolish approximately 4500 SF of existing Baughman's Lane and reseed.

JUSTIFICATION:

This project improves traffic operations, enhances traffic safety and provides safe options for pedestrian and bike access.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	500.000	-	-	500.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,800.000	300.000	-	-	2,500.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,300.000	300.000	-	500.000	2,500.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	3,300.000	300.000	-	500.000	2,500.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	3,300.000	300.000	-	500.000	2,500.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

Rosemont Ave / Baughman's Lane Intersection 320103

Fund 306 - General CIP

CIP NUMBER: **330005**

PROJECT NAME: **Bridge Rehabilitation**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

The County currently conducts a periodic assessment of all the existing travelable bridges and culverts within Frederick County in order to ensure the integrity of the structures. The intent of this project is to complete the necessary repairs and rehabilitate those bridges that fall within City jurisdiction as called for in the assessment report in a systematic fashion. The priority of the projects is also determined within the report. As funding allows, the prioritized projects will be listed to initiate the design, material procurement and construction of each.

The FY17 project includes the refurbishment of 3 culvert sections (of the sewer total) where a tributary to the Monocacy River crosses Dogwood Drive. The project includes the following deliverables for each prioritized repair location:

- Solicitation of an Engineer to design the repair methodology and materials
- Determination of the extent of in-house repairs to be performed by City forces, where possible
- Solicitation of a Contractor to procure the materials and to construct the engineered repairs
- Contractor to ensure safe and adequate maintenance of traffic, if necessary, during the repair project
- Site restoration
- Restoration of the driving surfaces
- Project management (either in-house or procured)

JUSTIFICATION:

The City is responsible to provide for the safe passage of the motoring/pedestrian public along publicly owned streets. Routine maintenance and repairs must be undertaken to ensure the public safety of the bridge and culvert systems.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,800.000	500.000	300.000	500.000	500.000	500.000	500.000	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,800.000	500.000	300.000	500.000	500.000	500.000	500.000	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,800.000	500.000	300.000	500.000	500.000	500.000	500.000	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	2,800.000	500.000	300.000	500.000	500.000	500.000	500.000	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

Bridge Rehabilitation 330005

Fund 306 - General CIP

CIP NUMBER: **340000**

PROJECT NAME: **Streetlight Upgrade**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This multi-year project allows the City's Street Light and Traffic Control Department to upgrade all streetlights currently powered by direct-bury or overhead series circuits. All of these streetlights will be converted to parallel circuits routed in conduit or overhead lines and their present lamp systems, both incandescent and high-pressure-sodium will be converted to QL induction lamps (low pressure mercury discharge). As a minimum, the City must procure materials and contracted services according to the following responsibilities:

City Provided Services: Management (project management, procurement, inspection), demolition (removal and disposal of existing pole bases), and installation (refurbish existing poles, pulling underground wires in conduit or upgrading overhead lines, install poles and heads).

During construction, this effort will affect residents as follows: 1) streetlights in specific project areas will be partially- or wholly inoperable for a short duration (approximately 45-90 days), and 2) installation of underground conduits or updating overhead lines, new pole bases will disturb the ground between the curb and sidewalk in front of some residences.

FY17 N. Market, Frederick Ave., Kosman Alley, W.14th St., E.15th St., E.16th St., Rose Ln., East St., E.8th St., Vernon Ave., E. 7th St., Herm Alley, N. Maxwell Ave., Mews Alley

Project for following years: E. 3rd St., E. 4th St., E 5th St., E 6th St., N Market St., N Maxwell Alley, Laboring Sons Alley, Chapel Alley

JUSTIFICATION:

The City's upgrade of the existing high-voltage, series street lighting circuits will improve system safety and availability, and will reduce operating and maintenance costs. This project also generally satisfies the direction set forth in the Frederick City Comprehensive Plan (Chapter 8) that recommends that the City increase its energy efficiency to reduce the overall consumption of energy.

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Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	5,438.147	3,938.147	-	300.000	300.000	300.000	300.000	300.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	5,438.147	3,938.147	-	300.000	300.000	300.000	300.000	300.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	5,287.047	3,787.047	-	300.000	300.000	300.000	300.000	300.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	31.100	31.100	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	120.000	120.000	-	-	-	-	-	-
TOTAL REVENUES	5,438.147	3,938.147	-	300.000	300.000	300.000	300.000	300.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Streetlight Upgrades 340000

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **340007**

PROJECT NAME: **Bentz Street Pedestrian Crossing**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project consists of the design and construction of pedestrian improvements at each intersection along Bentz Street from 2nd Street up to 7th Street. Improvements will include new ADA ramps, pedestrian signals, signs, and striping.

JUSTIFICATION:

This project addresses the need to provide safe options for pedestrian crossings of Bentz Street.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	50.000	50.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	165.099	200.000	(34.901)	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	215.099	250.000	(34.901)	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	215.099	250.000	(34.901)	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	215.099	250.000	(34.901)	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	-	-	-	-	-	-

Bentz Street Pedestrian Crossing 340007

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **340008**

PROJECT NAME: **ADA Intersection & Corridor Improvements**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This ongoing project consists of the design and construction of pedestrian improvements at intersections and along sidewalk corridors to improve safety and meet requirements of the Americans with Disabilities Act. Improvements will include new ADA ramps, pedestrian signals, signs, and striping at intersections and replacement of select segments of sidewalk along street corridors. In order to accommodate necessary pedestrian improvements, utility relocations, road repairs, etc.

- N. Market St at 7th St
- N. Market St at 9th St
- Jefferson St at Prospect Blvd/Pearl St
- Tuscanney Drive at Carroll Creek View Court
- Tuscanney Drive at East Greenleaf
- Wisner Street at City Park Building
- East Street at Peter's Lane
- Hillcrest Drive at Consett Place
- Hillcrest Drive at Seneca Drive
- Carroll Parkway at Kline Blvd.

JUSTIFICATION:

This project addresses the need to provide safe options for pedestrian access, mobility and crossings.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	250.000	-	100.000	75.000	-	75.000	-	-
LAND/R.O.W.	200.000	-	-	100.000	-	100.000	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,800.000	-	-	300.000	600.000	300.000	600.000	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,250.000	-	100.000	475.000	600.000	475.000	600.000	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,250.000	-	100.000	475.000	600.000	475.000	600.000	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	2,250.000	-	100.000	475.000	600.000	475.000	600.000	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	-	-	-	-	-	-

ADA Intersection & Corridor Improvements 340008

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **340102**

PROJECT NAME: **Sidewalk Retrofit**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project is part of an on-going initiative to utilize State Highway Administration matching funds to construct sidewalks in urbanized areas along state highways. Funding sources vary in terms of the need for pedestrian improvements; either for safety or for access to transit facilities. Future sections may include missing links along the east and west sides of Baughman's Lane north of West Patrick Street, North Market Street and MD 26 from Routzahn Way to Monocacy Boulevard, as well as other sidewalk priorities as identified. This project will address various sections each year depending on needs and SHA funding levels. New sidewalks, curbs/gutter, ramps, crosswalks, and pedestrian signals will be constructed to create an integrated pedestrian handicap accessible network.

JUSTIFICATION:

Currently, many gaps in sidewalks exist throughout the City of Frederick along state highways. This project will work to connect sidewalks, upgrade existing sidewalks in order to meet ADA requirements for handicap accessibility, and to create new pedestrian access to transit facilities.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	43.500	43.500	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	649.796	649.796	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	693.296	693.296	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	290.524	290.524	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	301.114	301.114	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	101.658	101.658	-	-	-	-	-	-
TOTAL REVENUES	693.296	693.296	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Sidewalk Retrofit 340102

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **340401**

PROJECT NAME: **New Traffic Signal Construction**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project will provide funding for new traffic signals as the need arises throughout the year. It will also upgrade existing signals detection, controllers, interconnect capability, and will provide battery backup at key locations. This project will also include safety improvements to address pedestrian deficiencies at intersections.

Anticipated upcoming projects may include the following:

- N. Market St and Wormans Mill Ct – new signal
- W. Patrick St at Norva Ave/Kline Blvd – Equipment Upgrades (new cabinets)
- E. Patrick St at Monroe Ave – add E/P phasing and associated equipment
- E. Patrick St at Monocacy Blvd – Equipment Upgrades (new cabinet) (SHA Reimbursement)
- MD 351 at US 340 off ramp – new signal (received developer contributions)
- US 40 Alt at Old Camp Road – new signal (received developer contributions)
- Center St at Madison Ave – utility pole relocates
- Center St at Washington St – utility pole relocates

JUSTIFICATION:

The objective of this project is to have funds available to construct new traffic signals and/or enhance existing signals should the City's Engineering or Public Works Departments determine the need. This provides the resources necessary for the City to respond promptly to traffic safety and efficiency issues that can be solved with new signals or improvements to existing signals and intersections.

This project is consistent with the 2010 City Comprehensive Plan Policies LU 5 – Ensure that development is approved only if adequate community facilities exist, TE 2 Maintain an appropriate balance between public and private sector responsibilities for transportation investments and improvements, TE 7 – Promote bicycle and pedestrian mobility.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	230.000	150.000	-	20.000	20.000	40.000	-	-
LAND/R.O.W.	5.000	5.000	-	-	-	-	-	-
UTILITIES	5.000	5.000	-	-	-	-	-	-
CONSTRUCTION	1,934.420	984.420	350.000	150.000	150.000	300.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,174.420	1,144.420	350.000	170.000	170.000	340.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,174.420	1,144.420	350.000	170.000	170.000	340.000	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	2,174.420	1,144.420	350.000	170.000	170.000	340.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

New Traffic Signal Construction 340401

Fund 306 - General CIP

CIP NUMBER: **340402**

PROJECT NAME: **Traffic Light Conversion - ARRA**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

This project will assist the City in reducing energy costs by replacing old incandescent light bulbs with light emitting diodes (LEDs) in traffic signals. There are currently 68 traffic signals to be replaced within the City's boundaries. All installation/labor will be completed by the City's Lighting Division with an expected completion date of one year after grant is received.

JUSTIFICATION:

The objective of this project is to reduce energy costs but will also add the following benefits:

- Traffic signals will work longer without failing. The typical led light will last from five to ten years while the incandescent light burns out at least once per year. This will reduce the City's maintenance costs as well as the price of incandescent bulbs.
- LED traffic signals are clearer, sharper and more distinct which creates a safer driving environment.
- This project is in compliance with the methodology provided in the Homeland Security Emergency Preparedness.
- All of the above factors are in compliance with the City's Comprehensive Plan.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	164.732	164.732	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	164.732	164.732	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	38.580	38.580	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	109.552	109.552	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	16.600	16.600	-	-	-	-	-	-
TOTAL REVENUES	164.732	164.732	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Traffic Light Conversion - ARRA 340402

Fund 306 - General CIP

CIP NUMBER: **380001**

PROJECT NAME: **Shared Use Path Plan Improvements**

PROJECT MANAGER: **Deputy Director of Parks and Recreation**

SCOPE:

This project is to provide a 12' Shared Use Path throughout the entire City. The total miles of this project is 25.7 miles of which approximately 10 have been constructed. In this fiscal year, projects that will be funded through this project include:

- Shared Use Path connection construction under US15 (CIP & MDOT Bikeways Funds)
- Some path upgrades in Baker Park are possible as well

JUSTIFICATION:

This connection is found on the approved and adopted Share Use Path Plan, and is the number one priority of the City Bicycle and Pedestrian Advisory Committee. The Baker Park pathway improvements are recommended by The Friends of Baker Park. Elements contained in this project provide for ample alternative transportation resources; reducing on street automobile congestion, improving air quality, and allowing for a healthier populous in the City.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	290.000	290.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,865.009	2,365.009	500.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,155.009	2,655.009	500.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	775.009	400.009	375.000	-	-	-	-	-
DEBT ISSUE	1,280.000	1,280.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	350.000	350.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	750.000	625.000	125.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	3,155.009	2,655.009	500.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Shared Use Path Improvements 380001

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **380004**

PROJECT NAME: **Rails to Trails**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

There are multiple phases to this project:

Phase One – on street markings for bicycles from MARC to 7th Street. (complete)
Phase Two – Construction of a 12' shared use path along the east side of East Street from 8th Street to North Market. It will include pedestrian improvements at 9th Street, Delaware, 15th Street, and 16th Street and waystation improvements at Monocacy Village Park (and the Pump Track) and North Market Street. Along with the off-street improvements, on East Street new striping for better lane alignment and on-street bicycle facilities will be installed from 3rd Street to North Market.
Phase Three – extend path from North Market to the north side of MD26 behind Wegmans (bridging over MD26)
Phase Four – complete the remaining section of the path from behind Wegmans to Wormans Mill, with associated waystation at Wegmans and in Wormans Mill.

JUSTIFICATION:

This project's justification dates back many years from negotiations with MTA for the lease rights to develop the path, to the Transportation Land Use Connections program from Transportation Planning Board (the first design project of the program) to the recommendation of the Bicycle and Pedestrian Advisory Committee (BPAC) 2017 CIP Recommendations for Phase Two.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	9,900.000	-	-	2,000.000	2,000.000	5,900.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	9,900.000	-	-	2,000.000	2,000.000	5,900.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	3,580.000	-	-	2,000.000	400.000	1,180.000	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	6,320.000	-	-	-	1,600.000	4,720.000	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	9,900.000	-	-	2,000.000	2,000.000	5,900.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

Rails to Trails Program 380004

Fund 306 - General CIP

CIP NUMBER: **410001**

PROJECT NAME: **Carroll Creek Linear Park**

PROJECT MANAGER: **Deputy Director of Parks & Recreation**

SCOPE:

To construct Carroll Creek Park improvements along the 1.3 mile long flood control corridor through historic Downtown Frederick using the appointed Carroll Creek Task Force, urban design and engineering consultants, and construction firms as follows:

- Schematic design, design development, and construction documents and specifications for the creekscape improvements along Carroll Creek Park including but not limited to lighting, landscaping, planters, furniture, pedestrian and bicycle facilities, street crosswalks, and water features, etc.
- Prepare Carroll Creek Park Overlay District Development Design Regulations for all properties along Carroll Creek Park and the adjacent properties on S. East Street. This will ensure the highest quality design, materials, character, function, and aesthetics of infill development as called for in the City Comprehensive Plan and small area plans - Carroll Creek Master Plan and Phase I East Street Corridor Plan. Construct public park improvements as called for in the 1991 Carroll Creek Master Plan (1991 CC Master Plan) and the 2003 Carroll Creek Park Schematic Design.

JUSTIFICATION:

The City of Frederick seeks "to complete a creekside park through historic Frederick, providing unique opportunities for commercial, residential, cultural and recreational development, enhancing the quality of life for the entire Frederick community (1991 CC Master Plan)." Recently completed public improvements along Carroll Creek in downtown Frederick include the first $10.69 million phase of park, $65 million flood control project, extension of East Street, construction of MARC station and rail service, renovation and expansion of the C. Burr Artz Library, and expansion of the Court House.

Private development of key opportunity sites along Carroll Creek Park and East Street together with construction of public park improvements along the length of the park is critical to bring the vision to fruition. The park improvements are to be completed through public and private participation. Private contributions from owners and developers of adjacent property are critical to the overall financing of the park improvements. The City has a unique opportunity to create a vital public space in downtown Frederick that is valued by and accessible to everyone in the community. Currently more than $155 million in private investment is planned or underway along Carroll Creek Park. Public/private partnership to complete the park will provide development opportunities, create jobs and services and enhance the tax base of the City. It is estimated that more than 1,500 jobs will be created along the park.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	4,659.300	4,659.300	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	30,932.080	30,932.080	-	-	-	-	-	-
EQUIPMENT	137.000	137.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	35,728.380	35,728.380	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	3,709.380	3,709.380	-	-	-	-	-	-
DEBT ISSUE	21,829.421	21,829.421	-	-	-	-	-	-
SPECIAL ASSESSMENT	2,793.081	2,793.081	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	4,662.000	4,662.000	-	-	-	-	-	-
COUNTY GRANT	1,000.000	1,000.000	-	-	-	-	-	-
OTHER	1,734.498	1,734.498	-	-	-	-	-	-
TOTAL REVENUES	35,728.380	35,728.380	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Carroll Creek Linear Park 410001

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **410007**

PROJECT NAME: **Riverside Center Park**

PROJECT MANAGER: **Deputy Director of Parks & Recreation**

SCOPE:

This is a phased project for this existing park that will ultimately provide an access road and parking spaces as well as additional multi-use field space for activities. The park resides entirely in the 100-year flood plain so obtaining an environmental permit is a critical step in the design approval process.

- New asphalt parking lot – 100 spaces, 7" pavement thickness
- Fill-in of existing borrow pit area (370,900 sf) and grade for new multi-purpose playing field use
- Reconfiguration of large existing storm water management outfall previously built by the Wal-Mart developer on northern side of the project to increase efficiency of pond outfall flow
- New pavilion 80' long x 40' wide (4" thick concrete floor, wood post support system) with 32 recessed lights.
- A standard multi-aged playground tot-lot that meets all playground safety standards.
- Install field lighting on 4 existing fields and new fields being built in this phase.

JUSTIFICATION:

This project serves two purposes. We can use the borrow pit / pond as a rubble fill, thus saving the landfill costs and when complete the new filled area can be used for ball fields, which are greatly needed. This is a perfect location - no residential area to disturb and the park provides plenty of parking.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	120.480	70.480	-	50.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	890.000	890.000	-	-	-	-	-	-
EQUIPMENT	560.000	-	-	-	560.000	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,570.480	960.480	-	50.000	560.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	610.000	-	-	50.000	560.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	843.000	843.000	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	117.480	117.480	-	-	-	-	-	-
TOTAL REVENUES	1,570.480	960.480	-	50.000	560.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Riverside Center Park 410007

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **410011**

PROJECT NAME: **Avalon Park**

PROJECT MANAGER: **Deputy Director of Parks & Recreation**

SCOPE:

The scope of this project includes the design and construction of the following features in this park: 19-space parking lot with one handicapped space and one entrance/exit off of Waverly Drive; a multi-aged playground unit meeting all standard playground safety specifications; 750 linear feet of 4' path connecting all park features; two single table picnic pavilions; five lighted tennis courts with 8' high chain link fence for an estimated 510 linear feet and water fountains.

This park will serve as a tennis facility for the City. We have promised the community for the last eight years that we would build another tennis complex to help alleviate the heavy use of our courts at Baker Park. When you build courts in batteries of five or more (which is commonly recommended by the NRPA), this enables us to hold tennis tournaments and teach lessons at this site.

JUSTIFICATION:

Planned park for this community.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	30.000	-	30.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	354.000	-	354.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	384.000	-	384.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	384.000	-	384.000	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	384.000	-	384.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Commons of Avalon Park 410011

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **410017**

PROJECT NAME: **Clover Ridge Park**

PROJECT MANAGER: **Deputy Director of Parks & Recreation**

SCOPE:

This approximate 30-acre park plan has been approved by the Parks & Recreation Commission. The design consists of two tot lots, open space, soccer field, little league field, 34-space parking lot and three small pavilions.

JUSTIFICATION:

Required parkland for Clover Ridge development.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	35.000	-	35.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	403.000	-	-	403.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	438.000	-	35.000	403.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	438.000	-	35.000	403.000	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	438.000	-	35.000	403.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Clover Ridge Park 410017

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **411202**

PROJECT NAME: **West Side Regional Park**

PROJECT MANAGER: **Deputy Director of Parks & Recreation**

SCOPE:

The City of Frederick has purchased a large tract of land, 148 acres, on the west side of town to provide the following elements: numerous lighted sports fields, adequate parking, indoor aquatic center, water park and DPW Annex. There will be upgrades made to the Butterfly Lane / Route 180 intersection helping overall traffic flow. Thirty-five (35) acres of this park have been dedicated to POS protection. These 35 acres are on the west side of the park and will consist of four multi-purpose fields and parking. The road frontage part will be a future aquatic center.

An early conception plan for the whole park has been designed and is currently going through the public meetings process in order to receive feedback from the community.

JUSTIFICATION:

The City has great neighborhood and community parks throughout the City, but there is a serious need for a large regional park to satisfy the need for the larger amount of youth and adult sport leagues and field space requests. The City, with a population of 60,000+, should also have an indoor aquatic center, which is the most requested facility from the citizens.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	626.581	626.581	-	-	-	-	-	-
LAND/R.O.W.	18,000.000	18,000.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	526.437	226.437	300.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	19,153.018	18,853.018	300.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	17,543.720	17,543.720	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	576.437	276.437	300.000	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	1,032.861	1,032.861	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	19,153.018	18,853.018	300.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

West Side Regional Park 411202

Fund 306 - General CIP

CIP NUMBER: **450102**

PROJECT NAME: **Grove Stadium Improvements**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

On October 1, 2011, The City of Frederick entered into a 10-year lease with the Frederick Keys Club. As part of the lease agreement The City of Frederick and the Frederick Keys Club agreed to make joint capital improvements to the facility over the life of the lease agreement. The improvement projects are derived from the list of 2011 Proposed Capital Improvements to include:

- New Covered/Lit Batting Cages – FY16 (50,000) - COMPLETED
  The existing batting cages are not covered or lit. Build new covered/lit batting cages that conform to Carolina League Standards

- Outfield Wall Replacement – FY17 ($275,000)
  The existing wall is almost to its life expectancy. The outfield wall will need to be replaced in accordance with Carolina League Standards

JUSTIFICATION:

This is a requirement of the 2011 lease with the Frederick Keys Club. The Frederick Keys Club agreed to contribute up to $1 million throughout the term of the lease agreement with the City matching the Keys' Club contributions and therefore, all requirements must be negotiated up to the $1,000,000 limit over the term of the lease. Negotiated improvements will be submitted as funding becomes available.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	800.000	800.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,700.000	3,700.000	200.000	200.000	200.000	200.000	200.000	-
EQUIPMENT	307.500	307.500	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	5,807.500	4,807.500	200.000	200.000	200.000	200.000	200.000	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	275.000	212.500	12.500	12.500	12.500	12.500	12.500	-
DEBT ISSUE	2,000.000	2,000.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	2,000.000	2,000.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	1,532.500	595.000	187.500	187.500	187.500	187.500	187.500	-
TOTAL REVENUES	5,807.500	4,807.500	200.000	200.000	200.000	200.000	200.000	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Grove Stadium Improvements 450102

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **480158**

PROJECT NAME: **Weinberg Center HVAC System**

PROJECT MANAGER: **Director of Economic Development**

SCOPE:

- Engineering evaluation of existing HVAC systems, its operation, the duct sizes and existing utilities.
- Develop design alternatives, with cost analysis.
- Make recommendations on new system
- Complete design of new HVAC system, including:
  - Demolition and removal of old system
  - Duct Work (as needed)
  - Equipment
  - Abatement (where necessary)
  - Restoration
  - New control system with appropriate zoning capability
  - All electrical work as required
  - Structural requirements
  - Abatement monitoring
- Coordinate permit review and approval
- Coordinate HDC review and approval
- Develop cost estimate with possible value engineering options
- Develop preliminary project schedule/time line. Coordination with scheduled events and performances will be critical.
- Prepare/assist with preparation of bid documents for new system installation (bid process will be controlled by City Purchasing Department.)
- Support bidding process of installation of new HVAC system
- Serve as construction manager during installation of new system.

JUSTIFICATION:

The original ballpark cost estimate for the project as provided by Johnson Controls was $500,000. More recently, Gipe Associates - an HVAC Engineer retained by the City to conduct a comprehensive evaluation and design for project, has estimated that the actual cost will be approximately $1.2 million. Since this project is an absolute necessity for the safe operation of the Weinberg Center for the Arts and its more than 70,000 patrons and performers, the capital budget is being increased to cover the project costs. In addition, the Weinberg Center Board of Directors has committed up to $250,000 in private funding for the project and the City has requested a Maryland State FY16 Bond bill also in the amount of $250,000.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,050.000	1,050.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,050.000	1,050.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,050.000	1,050.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,050.000	1,050.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Weinberg Center- HVAC 480158

Fund 306 - General CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **110007**

PROJECT NAME: **DPW Emergency Generator**

PROJECT MANAGER: **Deputy Director of Public Works -- Operations**

SCOPE:

The intent of this project is to engineer, purchase and install an emergency generator system to power the City's Department of Public Works facility located at 111 Airport Drive East. Operations located at this facility are responsible for responding to situations under any condition (routine, weather-related, emergency, etc.). Currently there is no backup source in order to accommodate power failure.

This project will include the following deliverables:

1. An engineered system with a complete set of specifications for backup power to serve all facilities within the DPW compound
2. Installation of the system
3. Testing of the newly installed system
4. Testing protocol for continued preventive maintenance
5. Spare parts kit
6. Secondary internet connections and backup servers

JUSTIFICATION:

The Department of Public Works Operations Group cannot effectively respond to City wide emergencies (hurricanes, high wind, snow, tornado, and other threats) without backup power.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	250.000	-	250.000	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	250.000	-	250.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	250.000	-	250.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	250.000	-	250.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

DPW Emergency Generator 110007WS

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **310004**

PROJECT NAME: **Monocacy Blvd / RT 15 Interchange**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

The intent of this project is to complete the engineering and design of the project as prescribed in the planning process. A memorandum of understanding and letter of agreement between the City, County and State was entered into in order to fund the design with SHA responsible for managing the design. City Staff will participate in meetings and provide data and input where applicable.

JUSTIFICATION:

Safety along US 15 will be enhanced by the construction of the interchange by eliminating at-grade crossings in The City of Frederick area. The connection will also provide a vital link between the east and west sides of The City of Frederick on the north side of town. This connection is expected to help alleviate congestion at the US 15 at Opossumtown Pike/Motter Avenue interchange.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	1,600.000	1,600.000	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,600.000	1,600.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	250.000	250.000	-	-	-	-	-	-
DEBT ISSUE	1,350.000	1,350.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,600.000	1,600.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Monocacy Blvd./Rt 15 Interchange 310004WS

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **310304**

PROJECT NAME: **Monocacy Boulevard - Central Section – Phase II**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

The design and construction of Monocacy Boulevard Central Section which extends from Gas House Pike in the north to Hughes Ford Road in the south, including the design and construction of the bridge over Monocacy River, extension of Schifferstadt Boulevard and East Church Street to connect with Monocacy Boulevard, and the design and construction of the bridge over Carroll Creek. Monocacy Boulevard in this section will be a four lane road with associated curb and gutter and sidewalks / bike paths. This project also includes completion of the Carroll Creek Flood Control Levee along Gas House Pike. Portions of the design/construction fronting the Nicodemus property shall be paid for by the property owner as stipulated in their annexation agreement. This project includes associated water and sewer infrastructure.

JUSTIFICATION:

This section of roadway will create an eastern loop for motorists to go around Frederick. It will relieve congestion in town and provide additional choices for motorists to travel without entering already congested arterials. The roadway will provide key relief needed for East Street which is carrying significantly more traffic since the opening of the East Street extension off of I-70 in 2009.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	2,000.000	2,000.000	-	-	-	-	-	-
CONSTRUCTION	7,095.074	7,095.074	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	9,095.074	9,095.074	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	9,095.074	9,095.074	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	9,095.074	9,095.074	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Monocacy Blvd. - Central Section - Ph. II 310304WS

Fund 602 - Water and Sewer CIP

CIP NUMBER: **320015**

PROJECT NAME: **Butterfly Lane Improvements - Realignment**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project is for the design construction and the relocation of a multi-lane Butterfly Lane section through the Hargett Farm to tie in to MD180 opposite Swallowtail Drive. The existing Butterfly Lane will terminate prior to MD180 via a cul-de-sac.

Several area developments have contributed funding toward this project.

JUSTIFICATION:

This project will enhance roadway operations and provide additional capacity along Butterfly Lane, and will greatly improve traffic issues along the MD 180 corridor by spacing the intersection of Butterfly Lane at MD 180 a greater distance from Himes Avenue.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	-	500.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	500.000	-	500.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	500.000	-	500.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	500.000	-	500.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Butterfly Lane Improvements 320015WS

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360009**

PROJECT NAME: **Water Distribution Upgrades**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project will require the hiring of a design/builder to complete the City's Water distribution system improvements per the City's Water and Sewer Master Plan (Chester 2000 & Dayton-Knight 2006). The design-builder will complete the design and construct the water main improvements, provide traffic control, public information notices, permits, easements, permanent patching and/or mill-overlay and restoration of all work sites per City specifications. The work areas are to include:

- Relocate 10” mains across Hood College Property, Phase I (FY17)
- Replace 10” main on N. Bentz from 7th to W. Patrick Street, Phase II (FY17)
- Install 12” loop line from Md. 144 to Quinn Orchard to Tilco (complete loop) (FY18)
- Install 12” loop line from Waterside Drive (City Line) through County portion to Dearbought (FY18)

JUSTIFICATION:

The above improvements are recommended in the Water Master Plans (Chester 2000 & Dayton-Knight 2006) and are necessary based on current hydraulic modeling of the City’s water distribution system and best management practices.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,034.291	1,034.291	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	16,397.059	11,897.059	4,000.000	500.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	17,431.350	12,931.350	4,000.000	500.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,640.252	1,140.252	-	500.000	-	-	-	-
DEBT ISSUE	15,252.146	11,252.146	4,000.000	-	-	-	-	-
SPECIAL ASSESSMENT	535.735	535.735	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	3.217	3.217	-	-	-	-	-	-
TOTAL REVENUES	17,431.350	12,931.350	4,000.000	500.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Water Distribution Upgrades 360009

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360011**

PROJECT NAME: **New Design Water Plant Expansion**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The scope of this project includes City funding of a proportionate share of the design, easement acquisition and construction of County owned water supply infrastructures defined below. This project will allow the County to provide the City with 8 MGD Maximum potable water from the Potomac source as is defined by the Potomac River Water Supply Agreement (PRWSA) dated March 16, 2006.

Transmission Main: (est. completion 2011) The 42" transmission main (5 phases) will begin at the New Design Plant (capacity of 32MGD, 24 County/8 City), reducing to a 36" main near Frederick Junction, and extending to a proposed elevated tank and pump station near the County's Fire Training Center. From the pump station, a 24" main will connect to the City's water distribution system at Reich's Ford Road. A SCADA controlled 12" bi-directional Magnetic Flow Meter will be located at the City limits. Appropriate chemical feed will be located near the connection. The County is managing this project, with technical input from the City.

WTP Expansion: (FY 2005-2010) This is anticipated to provide a capacity of 8 MGD to the City. This capacity will be provided in a phased approach, which will be determined by the County.

City/County High Zone Connection: Includes a 16" water main between the County's Hannover Tank and the City's Butterfly Lane Tank. Approximately 9, 500 linear feet of pipeline, along with associated water meter, SCADA, valves, hydrants and fittings. This project will be cost shared with the County, however the cost share formula has not been established. This connection is needed to transfer water from the Potomac Source directly to the City High Zone, and recommended in a Hydraulic Memo prepared by WRA, dated June 13, 2003.

JUSTIFICATION:

As outlined in The City of Frederick Comprehensive Plan (2004), the City has adopted an "Expanding Horizon" growth scenario, one in which the population of the City is anticipated to double to 104,000 by the year 2030. Current water supplies are not sufficient to meet this level of growth. This was exacerbated by the drought conditions of 2002. Partnering with the County on this project ensures the City an adequate supply of potable water for the foreseeable future.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,835.000	1,835.000	-	-	-	-	-	-
LAND/R.O.W.	715.000	715.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	49,700.000	49,700.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	52,250.000	52,250.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	500.000	500.000	-	-	-	-	-	-
DEBT ISSUE	51,750.000	51,750.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	52,250.000	52,250.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

New Design Water Treatment Plant 360011

Fund 602 - Water and Sewer CIP

CIP NUMBER: **360015**

PROJECT NAME: **North Side Water Tank**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project is for the design and construction of a 1,000,000 gallon above ground, potable water storage tank, SCADA controls and approximately 1500 linear feet of 20" transmission main to connect to a 20" water main at Valley Side Drive and Amber Drive (project to be located on property acquired from BOE at Hayward Drive across from Amber Drive). The design includes all permits (MDE, local building, air traffic, electrical and all others that are necessary to the project) and must contain traffic control plans, public notification plans, staging, shipping, crane lift process and all construction procedures to produce a finished working product that meets the City of Frederick operations and engineering standards per the timeline established in the most recent Water Master Plan.

JUSTIFICATION:

This project has been hydraulically modeled and is recommended in the 2006 Dayton-Knight Water Master Plan and has been recommended in the 2000 Chester Water/Sewer Master Plan as well.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	300.000	300.000	-	-	-	-	-	-
LAND/R.O.W.	430.000	430.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,575.000	4,575.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	5,305.000	5,305.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	4,305.000	4,305.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	1,000.000	1,000.000	-	-	-	-	-	-
TOTAL REVENUES	5,305.000	5,305.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

North Side Water Tank 360015

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

NUMBER: **360018**

PROJECT NAME: **Water Loss Reduction**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project is an annual and ongoing two-phase project. Phase I will be a completion (and ongoing) of a study of The City of Frederick water distribution system to identify the parts of this system that either are or have a high probability of losing water through leaks. The study will provide recommendations for corrective actions, cost estimates and prioritization. Phase II will implement the corrections based on the annual level of funding. This will include, but not be limited to, replacement of main, services, metering, leak detection, etc. The entire City distribution system will be part of this project. Specifically:

- Dill Avenue: replace and extend to Upper College Terrace (FY15) - Completed
- Carrollton Area Cul-de-Sac replacements (FY15) -Completed
- Rosemont: move services on 4" to 6" and de-commission 4" main (FY15) - Completed
- N. Jefferson St. from W. Patrick to Carroll Parkway (FY16)
- Replace galvanized line on B&O Avenue (FY16)
- Abandon line in rear of 300, 302, 304 E. 3rd and install new service lines from street to houses (FY16)
- Birmingham Dr. Cul-De-sac area 4" to 6" (FY17)
- Park Ave. from Trail to Hood Alley, Hood Alley from Park to W. 5th, W. 5th from Hood Alley to Elm, Elm from Dill to Park (FY17)
- East 3rd from East to Church (FY17)
- Maxwell Ave. from E. 4th to E. 5th (2017)

JUSTIFICATION:

When this annual program started in 2004 DPW estimated that up to 21% of its treated water was lost through leaks. A goal of 10% has been established by MDE and adopted as part of the City's Strategic Interim Water Management Plan Policy D-2, consistent with Comprehensive Plan Objectives 8 – 11, and the Chester Water and Sewer Master Plan**.** Currently we are averaging approximately 5 1/5% unaccounted for water.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,119.275	1,119.275	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	15,546.000	9,546.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	16,665.275	10,665.275	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	11,500.000	5,500.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000
DEBT ISSUE	5,165.275	5,165.275	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	16,665.275	10,665.275	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Water Loss Reduction 360018

Fund 602 - Water and Sewer CIP

CIP NUMBER: **360022**

PROJECT NAME: **Water Resource Project**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

Develop new, permanent water sources for the City of Frederick potable supply system in order to increase or obtain additional water supply. Construct new water supply infrastructure needed to supplement the City's existing sources of the supply during the next two to five years. These sources consist of new production wells, surface water intake structure modifications, treatment modifications or expansions, pipelines or other infrastructure which may be necessary to integrate these new sources of supply into the water distribution system. Several components have already been constructed.

The projects include:

- Design Modifications to existing Monocacy WTP to treat well field water blended with Monocacy River water. (FY10/FY12). *Note: Study completed; however, well treatment no longer applicable.*
- Design Electrical Equipment upgrades to replace worn-out systems. Expand SCADA capabilities at this plant and add emergency generation for back-up power.
- Construct the designed modifications to the MWTP – excluding well treatment train (FY15/16)
- Remove all un-needed well field infrastructure (FY18)

JUSTIFICATION:

Current water supplies are not sufficient to meet the level of growth as projected and adopted in the 2004 Comprehensive Plan. This was exacerbated by the drought conditions of 2002. This project is part of an ongoing effort to identify and develop new water sources for the City and upgrade necessary systems within the plant to eliminate on-going maintenance issues.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	2,594.374	2,594.374	-	-	-	-	-	-
LAND/R.O.W.	86.030	86.030	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	11,413.374	11,313.374	-	100.000	-	-	-	-
EQUIPMENT	35.991	35.991	-	-	-	-	-	-
MISCELLANEOUS	73.391	73.391	-	-	-	-	-	-
TOTAL EXPENDITURES	14,203.160	14,103.160	-	100.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	5,681.074	5,581.074	-	100.000	-	-	-	-
DEBT ISSUE	8,392.181	8,392.181	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	15.266	15.266	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	114.639	114.639	-	-	-	-	-	-
TOTAL REVENUES	14,203.160	14,103.160	-	100.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Water Resource Project 360022

Fund 602 - Water and Sewer CIP

CIP NUMBER: **360023**

PROJECT NAME: **Ballenger Creek Interconnect (Phase II)**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

Phase I *(Completed January 2010)*:
Design and construction of approximately 2,200 feet of 24-inch water transmission main and associated chemical enhancement facility to allow the transfer of 2.0 to 4.0 million gallons per day (MGD) of potable water from Frederick County water system to Frederick City water distribution system by October 2008 as planned in the Optimization phase of the New Design Water Plant Expansion Project – CIP 360011. Total system constructed to transfer and treat 1.5 MGD initially and 5.0 MGD (8 MGD Maximum) in future.

Phase II:
Evaluate, design and install additional pumps, pump controls and SCADA system to meet the operating requirements of the County's water distribution system as identified in the Potomac River Water Supply Agreement (PRWSA) dated March 16, 2006. *Note: This phase needs to be modeled and/or studied by hydraulic engineers.*

JUSTIFICATION:

As outlined in the City of Frederick Comprehensive Plan (2004), the City adopted an "Expanding Horizon" growth scenario in which the population of the City was anticipated to double to 104,000 by the year 2030. This CIP was generated to ensure growth does not outstrip current and future water supplies.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	496.000	496.000	-	-	-	-	-	-
LAND/R.O.W.	100.000	100.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,051.483	2,051.483	-	1,000.000	-	-	-	-
EQUIPMENT	6.000	6.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	3,653.483	2,653.483	-	1,000.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	293.925	293.925	(1,000.000)	1,000.000	-	-	-	-
DEBT ISSUE	3,359.558	2,359.558	1,000.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	3,653.483	2,653.483	-	1,000.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Ballenger Creek Interconnect 360023

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360031**

PROJECT NAME: **Fishing Creek Pipeline**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

This project provides for constructing approximately 31,700 feet of 18-inch water main from the Fishing Creek Reservoir to the Lester Dingle Treatment Plant. The water main is intended to replace the existing pipeline between the reservoir and the plant. Project Phasing is discussed below.

- Identify ownership of easements; locate main w/GPS Technology *(Completed FY 2010)*
- Engineering- preliminary design (FY2011) *Completed*
- Obtain access rights of way and easements, engineering (FY 2013) *Note: Will possibly need easement access.*
- Clear easement and pipeline alignment, construct pipeline (FY 2014 – FY 2015) *Not yet complete*
- Construct Pipeline (FY 2016 +)

JUSTIFICATION:

The existing pipeline is a 12-inch/18-inch diameter, lead-jointed cast iron pipe constructed in around 1899. The pipe is exposed in areas, corroded and subject to leakage and/or damage due to its original placement and alignment. Replacement will provide for a more dependable source of water from the reservoir. This project was recommended in the 2006 update to the Water Master Plan by Dayton & Knight Ltd.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,125.000	1,125.000	-	-	-	-	-	-
LAND/R.O.W.	155.000	155.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	12,300.000	800.000	-	-	11,500.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	13,580.000	2,080.000	-	-	11,500.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,080.000	2,080.000	-	-	-	-	-	-
DEBT ISSUE	11,500.000	-	-	-	11,500.000	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	13,580.000	2,080.000	-	-	11,500.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Fishing Creek Pipeline 360031

Fund 602 - Water and Sewer CIP

CIP NUMBER: **360032**

PROJECT NAME: **SCADA System**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

To make all necessary improvements to the existing SCADA (Supervisory Control and Data Acquisition) System that will enhance the operability, security, and management of our water treatment and distribution/collection system. The work anticipated will address communications infrastructure, hardware replacements/modifications, new I/O devices for additional monitoring, control, and security, adding HMI (Human Machine Interface) clients to management areas, etc. In some cases, these activities will be coordinated with improvements or construction of new facilities as determined by each individual project.

FY14 – FY15 (Completed work)

- Finish ongoing work related to the network and work at the wastewater plant, water plants, and golf course.
- Replacement of the Bristol Babcock RTU at our Linganore Water Plant with a new PLC.
- Replacement of the existing Bristol Babcock RTU at the Lake Linganore Dam with a new PLC and install mGuard router to convert to Modbus TCP communications.
- Monarch Ridge Pump Station: Replace control panel
- Amber Meadows Pump Station: Modify control panel Add this site to the radio network and include operation data to the SCADA system.
- DPW Pump Station: Replace control panel
- Upgraded three Momentum PLC processors with new Unity processors

FY16 – FY17 (Anticipated Work)

- Miscellaneous items that may be necessary to accommodate other planned improvements (i.e. new water storage tank at north end of City).
- West Patrick St. Pump Station: Replace control panel; add this site to radio network and include operation data to the SCADA system On hold
- Tilco Drive Pump Station: Replace control panel; add this site to radio network and include operation data to the SCADA system In progress
- Upgrade all Momentum PLC processors with new Unity processors In progress
- Add Water Treatment Superintendent and Assistant Superintendent as new users for remote access

JUSTIFICATION:

The existing SCADA System is substandard when considering available technology and expectations with regard to operability and security. The improvements indicated in the scope are pursuant to the recommendations in the current “Water Master Plan” and will improve our ability to treat and deliver quality water to the citizens of the City of Frederick: Public safety and health is the primary goal.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	100.000	100.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	500.000	500.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	600.000	600.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	600.000	600.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	600.000	600.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

SCADA System 360032

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360033**

PROJECT NAME: **Lake Linganore Silt Removal**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The intent of this project is for the City to fund its proportionate share of the removal of silt from the Lake Linganore Water Reservoir and to establish a long-term maintenance/funding plan to address silt build-up. The 2002 estimate for the below work was in the ~$4.5M range, without the inclusion of land acquisition. The December 2002, Whitman Requardt Study details the lost volume of storage capacity due to siltation. The City is also working with the County on a study by USGS to get a more accurate determination of the volume of silt accumulation. The actual work scope will likely include the following:

1. Develop a Memo of Understanding between City and Lake Linganore Association (LLA) as to responsibilities and funding. *Completed November, 2014.*
2. Establish the method by which we'll remove the silt. Hire consultants where necessary for design/permitting.
3. Secure necessary permits.
4. Establish a site for the de-watering of the silt.
5. Develop the removal plan for the dewatered silt.
6. Hire a contractor to remove the silt to the de-watering site.
7. Hire a contractor to re-establish and stabilize the de-watered silt and to stabilize the Lake embankments/silt inflow channels.
8. Develop an agreed upon maintenance/finance plan between the City and The LLA to address the periodic future silt build-ups.

JUSTIFICATION:

As outlined in the 2002 Whitman Requardt Study, Lake Linganore has lost nearly 100 million gallons of storage capacity (currently ~15 days of City water usage). In order to restore this ability to withstand periods of little to no rain, it is essential that we return the Lake to its original volume. With the ability to make releases from Lake Linganore of adequate flow volumes by the LLA, the flow by requirement for the Linganore Creek WTP may not be able to be met under low flow conditions. If the flow-by requirement cannot be met, this will limit the capacity of the Linganore WTP.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	359.900	299.900	60.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	7,470.000	-	3,720.000	3,750.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	7,829.900	299.900	3,780.000	3,750.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	174.900	174.900	-	-	-	-	-	-
DEBT ISSUE	7,530.000	-	3,780.000	3,750.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	62.500	62.500	-	-	-	-	-	-
OTHER	62.500	62.500	-	-	-	-	-	-
TOTAL REVENUES	7,829.900	299.900	3,780.000	3,750.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Lake Linganore 360033

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360034**

PROJECT NAME: **Butterfly Lane Water Tank: Lead Abatement**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

In order to meet OSHA and MOSHA requirements, scope of this work would include the provision for hiring an engineer to evaluate and conduct lead abatement procedures to both exterior and interior of the Butterfly Lane Water Tank. The work may also include upgrade to worn pump and pump controls:

- Perform Study (FY16)
- Construct improvements required by Study (FY17)

JUSTIFICATION:

This work is needed in order to keep potable drinking water from being contaminated by lead leaching from original paint on the inside of this water tank and in order to remove hazardous lead paint from the exterior.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	200.000	200.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,500.000	-	2,500.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,700.000	200.000	2,500.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	200.000	200.000	-	-	-	-	-	-
DEBT ISSUE	2,500.000	-	2,500.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	2,700.000	200.000	2,500.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Butterfly Lane Water Tank: Lead Abatement 360034

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360035**

PROJECT NAME: **City and County Sewerage and Water Supply Systems Study**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

The County and City shall jointly fund (50% City and 50 % County) and develop the scope of work that will be used to secure proposals for the study.

- County Purchasing – issue RFP (Request for Proposals)
- Joint consultant selection committee; comprised of four County staff members and four City staff members to review and rank the proposals with cooperation from both jurisdictions during the Study process.
- Study findings shall identify opportunities to improve efficiencies and potential cost savings through collaboration and cooperation

JUSTIFICATION:

In accordance with Section 11 of the Central Frederick Sewer Service Area agreement, Frederick County and the City have agreed to fund a study that will evaluate the cost effectiveness and appropriateness of partially or fully consolidating the sewage and/or water supply systems that provide service within the CFSSA. Both parties agreed to fund and initiate the study within two years of the executed CFSSA.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	250.000	250.000	-	-	-	-	-	-
TOTAL EXPENDITURES	250.000	250.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	250.000	250.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	250.000	250.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	-	-	-	-	-	-

City/County Inter-Jurisdictional Study 360035

602 - Water & Sewer Fund

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360036**

PROJECT NAME: **Route 40 & LR Dingle Booster Pump Stations Rehabilitation**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

The intent of this project is to study, engineer, purchase and install modifications for the failing Route 40 potable water booster pump station and evaluate the need for improvements to the Lester R Dingle potable water booster station/filtration facility. The existing stations are at the end of their useful life and need to be rehabilitated. In order to allow space for a full modernization of the Route 40 Station, a relocation will occur. Before the re-design occurs a thorough study will be done and the entire water system will be modelled.

The project will include the following deliverables:

- Solicitation of an Engineer to study both facilities and propose a new Route 40 pump station location considering both geography and hydraulical performance and propose rehabilitation methods necessary to both facilities
- Solicitation of an Engineer to design the recommendations from the Study
- Acquire all necessary permits
- Purchase of land or easements
- Solicitation of a Contractor to build the engineered repairs
- Site restoration
- Project management (either in-house or procured)

JUSTIFICATION:

The City is responsible to provide potable water at proper pressures to the public. Periodic upgrades must be done to keep pace with the degradation of the infrastructure and the growth of the City.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	150.000	150.000	-	-	-	-	-	-
LAND/R.O.W.	200.000	-	200.000	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,500.000	-	-	-	2,500.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,850.000	150.000	200.000	-	2,500.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,850.000	150.000	200.000	-	2,500.000	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	2,850.000	150.000	200.000	-	2,500.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

40 West/LR Dingle Pump Station 360036

602 - Water & Sewer Fund

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360037**

PROJECT NAME: **Linganore Water Plant Filters Rehab**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE: Preparation and award of an RFP for hiring of a Design Engineer to evaluate the Linganore Water Plant for filter and filter processing improvements. Scope to include:

- Evaluation of filters and filtering portion of the plant to identify any process improvements
- Identify all necessary rehab work
- Preparation of construction drawings, specifications and construction estimate

JUSTIFICATION:

Filters at the Linganore Water Plant are in poor condition with regard to piping, valves, valve actuators, instruments, controls, conduit, wiring, etc. and need to be replaced in entirety.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	250.000	-	250.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,000.000	-	-	1,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,250.000	-	250.000	1,000.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,250.000	-	250.000	1,000.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,250.000	-	250.000	1,000.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Linganore Water Plant Filters Rehab 360037

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **360038**

PROJECT NAME: **Dredging of Fishing Creek Reservoir**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake the dredging and disposal of silts deposited over time in the City's Fishing Creek Reservoir.

- Develop a set of bidding documents that accurately reflect the dredging work
- Utilize the recently completed Hood College Bathymetric Study to determine volume of silts deposited
- Hiring of a contractor
- Development of the sequence of dredging operations
- The completion of the dredging operation and proper disposal of the silts
- Restoration of the site

JUSTIFICATION:

Periodically, reservoirs of water must have their deposited silts removed to restore the designed storage volume. The silts must be deposited in an MDE/EPA approved manner. There exists the possibility that this task be added to the Contractor's list for the Lake Linganore Dredging Project.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,000.000	-	-	1,000.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,000.000	-	-	1,000.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,000.000	-	-	1,000.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,000.000	-	-	1,000.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Dredging of Fishing Creek 360038

Fund 602 - Water and Sewer CIP

CIP NUMBER: **360601**

PROJECT NAME: **Watershed Land Acquisition**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

This project funds the annual acquisition of available property within The City of Frederick watershed as land becomes available to purchase.

JUSTIFICATION:

Not all properties within the City watershed are owned by the City. Various properties located within the watershed directly affect the City's water quality because of their location. The City pursues the acquisition of these properties as they become available to purchase.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	59.006	59.006	-	-	-	-	-	-
LAND/R.O.W.	1,073.621	973.621	-	100.000	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	28.547	28.547	-	-	-	-	-	-
EQUIPMENT	0.941	0.941	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,162.115	1,062.115	-	100.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	781.878	681.878	-	100.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	380.237	380.237	-	-	-	-	-	-
TOTAL REVENUES	1,162.115	1,062.115	-	100.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Watershed Land Acquisition 360601

602 - Water & Sewer Fund

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **370007**

PROJECT NAME: **Wastewater Flowmeter Replacement**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

A jointly purchased comprehensive sewer basin study will be necessary to determine ultimate flow ownership between the City and County. In addition**,** replacement of the existing, Parshall Flume flow meter on the Monocacy By-pass Sewer Interceptor (near the Monocacy Water Treatment Plant) and install new, permanent flow measuring devices with telemetry capability at other critical points in the wastewater collection system will be necessary.

The Monocacy By-pass Interceptor receives wastewater from City & County developments. The Parshall Flume metering flows in this interceptor needs to be replaced due to age and because it is undersized for current flows. Portable meters currently measure flows in the four trunk lines into the Gas House Pike Waste Water Treatment Plant. Permanent meters will be installed at each location.

Additional, permanently installed flow meters are necessary at other critical junctions to differentiate between City and County flow contributions and for inflow/infiltration analysis. Proposed locations include the following connections into the Tuscarora Interceptor/Monocacy By-pass:

- Dearbought @ manhole DB45
- Routzahn's @ manhole MI 26
- Riverside Center @ manhole 1475
- Shops at Monocacy @ manhole MP3
- Worman’s Mill @ manhole WM2
- Worman’s Mill @ manhole 1236
- Worman’s Mill @ manhole TK19
- Willowbrook @ manhole WB1
- North Crossing @ TBD

JUSTIFICATION:

This project is required to accurately account for flows that are introduced into the Monocacy Bypass Sewer Interceptor. The upgrade of the meters is per the Sewer Agreement with the County.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	250.000	250.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	440.000	440.000	-	-	-	-	-	-
EQUIPMENT	130.000	130.000	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	820.000	820.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	820.000	820.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	820.000	820.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Wastewater Flowmeter Replacement 370007

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **370009**

PROJECT NAME: **Ballenger-McKinney Wastewater Plant Expansion**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The scope of this project includes City funding of a proportionate share per the 1990 Monocacy Interceptor Sewer Capital Funding Agreement (MISCFA) with Frederick County for the design, easement acquisition and construction of County-owned wastewater treatment infrastructures defined below. This project will allow the County to provide the City with 3 MGD Maximum sewer capacity from the upgraded Ballenger-McKinney Wastewater Treatment Plant as is defined by the MISCFA. Total project cost is estimated at $160M($41M MDE Grant + $21M City + $98M County).

Gas House Pike WWTP Equalization Basin Expansion: (Completed ~1995) This is anticipated to provide for flow through capacity of 6.5 MGD.

Collection System Mains Upgrade: (est. completion 2015) The various sized collection mains (4 phases) will begin at the Gas House Pike Plant Equalization Basin and tie to the Linganore Creek Main and eventually to the Ballenger Creek Plant. The mains will be sized appropriately for the increased flows that are contributed along the alignment. The County is managing this project, with technical input from the City.

Ballenger Creek WWTP Expansion and Potomac Outfall: (FY 2011-2018) This is anticipated to provide a capacity of ~3 MGD to the City. This capacity will be provided in a phased approach, which will be determined by the County.

JUSTIFICATION:

As outlined in the MISCFA, the City-owned Gas House Pike Treatment sewer capacity is not sufficient to meet the anticipated City growth. Partnering with the County on this project will be required under any growth scenario for the City.

The City's Gas House Pike Plant is currently undergoing analysis to determine if any expansion is feasible. The results of this analysis will determine how much wastewater capacity the City will need to obtain from the Ballenger-McKinney Plant.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	17,483.000	17,483.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	17,483.000	17,483.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	15,098.360	17,186.895	(2,088.535)	-	-	-	-	-
SPECIAL ASSESSMENT	2,384.640	296.105	2,088.535	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	17,483.000	17,483.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Ballenger-McKinney WWTP 370009

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **370010**

PROJECT NAME: **Gas House Pike WWTP Solids Processing Rehab**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

Design and then construct improvements to the Solids Handling and Gas Recovery System. Utilize Green Technology to harvest methane and re-use energy for plant process. The project provides for the design and installation of the following:

- Primary Digester #1 cover replacement
- Secondary Digester conversion to Primary Digestion; making it Primary Digester #2
- Primary Digester #2 cover replacement
- Primary Digester #2 mixing system installation
- Primary Digester #2 solids recirculation pump and controls
- Primary Digester #2 heat exchanger installation
- New Digester feed controls
- New Co-generation system
- Study to determine feasibility of increasing methane production by addition of compostables

JUSTIFICATION:

The current Solids Handling System failed and increased the City's landfill cost.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	656.931	656.931	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	5,430.952	5,430.952	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	6,087.883	6,087.883	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	70.000	70.000	-	-	-	-	-	-
DEBT ISSUE	3,029.270	3,029.270	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	2,988.613	2,988.613	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	6,087.883	6,087.883	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

Gas House Pike WWTP Solids Processing Rehab 370010

Fund 602 - Water and Sewer CIP

CIP NUMBER: **370011**

PROJECT NAME: **Gas House Pike WWTP ENR Upgrade**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The proposed project will upgrade the City of Frederick's Gas House Pike WWTP to meet Enhanced Nutrient Removal (ENR) standards for nitrogen and phosphorus at the current rated plant capacity of 8.0 MGD in accordance with the effluent limits stated in State Discharge Permit 06-DP-0801A. The project includes the following major components:

- Fine Screen Facility Modifications
- Grit Removal Facility Modifications
- Bioreactor Modifications
- Bio-Augmentation Reactor Facility
- De-Nitrification Filters and Pump Station
- UV Disinfection Modifications
- Effluent Flow Meter Modifications
- Basin 4 Sewer Modifications
- SCADA Modifications
- Site Electrical
- Waste Sludge Thickening Systems Upgrade
- Influent Pump Station Facility Modifications
- Flow Equalization and Primary Clarifier Modifications
- Blower Modifications
- Chemical Facility Modifications
- Methanol Feed Facilities
- Post Aeration Modifications
- Diesel Generators
- Administration Building Modifications
- Site Civil Work
- Dewatering Systems Upgrade
- Construction Management
- Engineering Services during Construction

Design of this project is currently underway with completion of approved plans and construction specifications ready for bid projected by spring of 2014. Construction of the improvements is anticipated to begin in the spring of 2015 with completion date by January 1, 2017 in order to meet ENR requirement mandates set by the EPA.

JUSTIFICATION:

This work is required for the Gas House Pike WWTP in order to meet compliance of Enhanced Nutrient Removal (ENR) mandates from EPA by January 1, 2017.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	9,473.620	9,473.620	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	47,368.100	47,368.100	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	56,841.720	56,841.720	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	33,279.416	33,279.416	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	23,562.304	23,562.304	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	56,841.720	56,841.720	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

Gas House Pike WWTP - ENR Upgrade 370011

Fund 602 - Water and Sewer CIP

CIP NUMBER: **370012**

PROJECT NAME: **Sewer Master Plan Update**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

This project involves the procurement of the services of a qualified engineering consultant to investigate, analyze and develop an updated, stand-alone Sewer Master Plan for the City's sewer collection and pumping systems. The Plan would include the establishment of a calibrated hydraulic model, an analysis and a report of the performance of the sewer system under current and future growth scenarios, and recommendations for 1, 5, 10, and 20 year prioritized sewer system capital improvements including engineering construction cost estimates.

An alternate proposal of the successful bidder will be explored to provide for the review and recommendation of Sewer APFO applications.

JUSTIFICATION:

The last comprehensive evaluation of the City's sewer system was conducted by Chester Engineers and resulted in the 2000 Water and Sewer Master Plan. Since that time, there have been changes in the City's governing authorities relative to development (Land Management Code, Comprehensive Plan) that have given more definition to the City's anticipated growth patterns, as well as changes in the collection and ultimate treatment systems utilized (Central Frederick Sewer Service Area Agreement with DUSWM). Additionally, the Adequate Public Facilities Ordinance (APFO) requires infrastructure improvements necessitated by new growth to be paid for by said new growth.

The findings of the Plan update will enable the identification of system limitations and provide phased improvements to be incorporated into the Sewer Capital Improvement Program (CIP) that will help ensure the proper and safe conveyance of existing and future City wastewater flows in accordance with State and Federal regulations. This plan and the associated model for the sewer system will provide direction for necessary upgrades currently, and in the future as growth occurs by:

- providing a clear understanding of the existing sewer collection system functionality
- identifying any existing deficiencies or problem areas
- quantifying impacts from future developments
- recommending upgrades or improvements to the system based on the findings of a detailed hydraulic analysis.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	400.000	-	400.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	400.000	-	400.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	400.000	-	400.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	400.000	-	400.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Sewer Master Plan Update 370012

Fund 602 - Water and Sewer CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **370300**

PROJECT NAME: **Inflow and Infiltration Reduction**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

The intent of this multi-year project is to provide deliverables (equipment, rehabilitation, repairs or new technology) that will reduce inflow and infiltration to The City of Frederick's Sanitary Sewer System.

FY16: Areas anticipated for study and making repairs to sewage collection system components:

1. The Carroll Creek Interceptor from Bentz Street to the West ~ 10,000 linear feet to include the western branch draining the Hargett Farm Area

FY17:

1. Pick up on Carroll Creek Interceptor where FY16 funds run out
2. Researching Manhole rehab along Rock Creek and Carroll Creek to upgrade water tight manhole to new style water tight manholes

IMPORTANT: There may be a few isolated "hot-spots" that would require an immediate fix and are not identified at the printing of this manual. In addition, there are infrequent upgrades to software and new technologies that will need to be purchased from this project.

JUSTIFICATION:
Sanitary sewer collection systems maintenance and operations best management practices require periodic improvements to the system to reduce inflow/infiltration of ground water that does not need to be processed through the wastewater treatment plant. This ongoing CIP project provides a funding source for new technology purchases and targets locations that are determined to contribute to the I/I problem.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	512.000	512.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	12,579.837	6,579.837	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000
EQUIPMENT	465.000	465.000	-	-	-	-	-	-
MISCELLANEOUS	35.000	35.000	-	-	-	-	-	-
TOTAL EXPENDITURES	13,591.837	7,591.837	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	9,573.267	3,573.267	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000
DEBT ISSUE	1,950.000	1,950.000	-	-	-	-	-	-
SPECIAL ASSESSMENT	1,955.000	1,955.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	100.000	100.000	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	13.570	13.570	-	-	-	-	-	-
TOTAL REVENUES	13,591.837	7,591.837	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000	1,000.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Inflow and Infiltration Reduction 370300

Fund 602 - Water and Sewer CIP

CIP NUMBER: **380051**

PROJECT NAME: **FAA Part 77**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project is to acquire easements over 10 properties in the Tulip Hill Subdivision, and to trim/remove trees that penetrate the 34:1 approach surface for Runway 5, as identified in the 1999 Obstruction Removal Program. The Airport has procured the services of a property acquisition specialist to obtain easements from each of these property owners to allow for removal of these trees. This project will be funded through the FAA and the MAA.

JUSTIFICATION:

1999 Obstruction Removal Plan identified these properties as a penetration of the 34:1 approach surface of RW5.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	138.109	138.109	-	-	-	-	-	-
LAND/R.O.W.	261.212	261.212	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	362.619	362.619	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	43.400	43.400	-	-	-	-	-	-
TOTAL EXPENDITURES	805.340	805.340	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	87.148	87.148	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	677.001	677.001	-	-	-	-	-	-
STATE GRANT	27.228	27.228	-	-	-	-	-	-
COUNTY GRANT	13.963	13.963	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	805.340	805.340	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

FAA Part 77 380051

Fund 307 - Airport CIP

CIP NUMBER: **380054**

PROJECT NAME: **Airport Property Acquisitions**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project is to purchase the following properties to remove obstructions that are within the Runway 5 Object Free Area (ROFA) and/or the Runway Protection Zone.

5 Runway Protection Zone (RPZ):

- Parcel A1, Gage, also known as Rexel Electric (formerly Commerce Electric), 2.0 acres of land and a structure that will be demolished in the future**.**
- Parcel A2, Bees property, known as United Products, 2.87 acres of land and a structure that will be demolished in the future.
- Parcel A3, Breen Commons, 2.26 acres of land and a structure that will be demolished in the future.
- Parcel A4, Great Eastern Concrete, 0.85 acres of land and a structure that will be demolished in the future.
- Parcel A5, Colonial Bus, also known as Heritage Management, 2 acres of land and a structure that will be demolished in the future.
- Parcel A39, Vershel (M&RR), 1.54 acres of land and a structure that will be demolished in the future.
- Parcel A38, Bartgis Property, 0.448 acres of land with no structures.

All properties under this CIP have been acquired.

JUSTIFICATION:

2001 Bailes Lane Re-Use plan identified these structures to be removed because they are located within the object free area and runway protection zone.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	17,114.000	17,114.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	17,114.000	17,114.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,263.000	1,263.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	15,250.000	15,250.000	-	-	-	-	-	-
STATE GRANT	401.000	401.000	-	-	-	-	-	-
COUNTY GRANT	200.000	200.000	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	17,114.000	17,114.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Airport Property Acquisitions 380054

Fund 307 - Airport CIP

CIP NUMBER: **380062**

PROJECT NAME: **Property Acquisition - Bowman's Farm**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The Bowman Farm property acquisition secured approximately 34 acres of land for possible expansion of the airport. Portions of the property may be subdivided in the future.

JUSTIFICATION:

This property acquisition and subdivision.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	71.404	71.404	-	-	-	-	-	-
LAND/R.O.W.	5,400.010	5,400.010	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	69.532	69.532	-	-	-	-	-	-
TOTAL EXPENDITURES	5,540.946	5,540.946	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	5,540.946	5,540.946	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	5,540.946	5,540.946	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Property Acquisition - Bowman's Farm 380062

Fund 307 - Airport CIP

CIP NUMBER: **380064**

PROJECT NAME: **Acquire Toms Property Easements**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The Tom's Farm Property is located in the approach path to Runway 23. The property currently has a multitude of controlling obstructions including trees, silos and buildings. The purpose of this scope is to acquire aviation easements on the 135 acres.

JUSTIFICATION:

The 2008 Master Plan calls for the acquisition of these easements in the interest of safety and capacity improvements. Easements will include provisions for removal of obstacles that violate runway safety zones or Part 77 criteria. These actions are necessary for the extension of the RWY 23 end.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	17.445	17.445	-	-	-	-	-	-
LAND/R.O.W.	1,250.000	-	-	-	-	-	-	1,250.000
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,267.445	17.445	-	-	-	-	-	1,250.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	37.867	6.867	-	-	-	-	-	31.000
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	1,135.176	10.176	-	-	-	-	-	1,125.000
STATE GRANT	63.268	0.268	-	-	-	-	-	63.000
COUNTY GRANT	31.134	0.134	-	-	-	-	-	31.000
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,267.445	17.445	-	-	-	-	-	1,250.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Acquire Toms Property Easements 380064

Fund 307 - Airport CIP

CIP NUMBER: **380067**

PROJECT NAME: **Bailes Lane Demolition and Site Work**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of the first phase of this project is to prepare the construction drawings and documents for the demolition of structures along Bailes Lane, the Waffle House, and three homes in Tulip Hill that are within the Runway 5 Object Free Area (ROFA) and/or the Runway 5 Runway Protection Zone (RPZ), for site work to meet City and State grading and soil and erosion control guidelines, and to allow reuse of the properties for Airport use.

The scope of the second phase of this project is to demolish structures along Bailes Lane that are within the Runway 5 Object Free Area (ROFA) and/or the Runway 5 Runway Protection Zone (RPZ), and to perform site work to meet City and State grading and soil and erosion control guidelines to allow reuse of the properties for future airport development.

JUSTIFICATION:

2001 Bailes Lane Re-Use plan identified these structures to be removed because they are within the object free area and runway protection Zone. This demolition of property is also on the Airport Layout Plan and includes structures along side the Bailes Lane, Waffle House, and three homes in Tulip Hill.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	835.200	835.200	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	500.000	500.000	-	-	-	-	-	-
CONSTRUCTION	17,092.189	4,092.189	4,000.000	3,000.000	3,000.000	3,000.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	31.831	31.831	-	-	-	-	-	-
TOTAL EXPENDITURES	18,459.220	5,459.220	4,000.000	3,000.000	3,000.000	3,000.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	503.212	178.212	100.000	75.000	75.000	75.000	-	-
DEBT ISSUE	-	-		-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	16,626.938	4,926.938	3,600.000	2,700.000	2,700.000	2,700.000	-	-
STATE GRANT	886.046	236.046	200.000	150.000	150.000	150.000	-	-
COUNTY GRANT	443.024	118.024	100.000	75.000	75.000	75.000	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	18,459.220	5,459.220	4,000.000	3,000.000	3,000.000	3,000.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Bailes Lane Demolition and Site Work 380067

Fund 307 - Airport CIP

CIP NUMBER: **380068**

PROJECT NAME: **Acquire - Waffle House**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project is to acquire the Waffle House Restaurant, Parcel A54, located at 1316 E. Patrick St. (0.44 acres) located within the future extension of the Runway 5 Runway Protection Zone (RPZ).

JUSTIFICATION:

To extend the runway and offer better services to the airport users, the FAA design requirements indicate that the RPZ must be extended across Patrick Street, thereby making the acquisition and subsequent demolition of the Waffle House necessary. This property was acquired in 2008 utilizing City funds. The City provided interim financing to purchase this property until an FAA & MAA grant was obtained. The airport received federal and state grants (AIP #3-24-0017-038-2013 and MAA-GR-14-029) to reimburse the City for acquisition costs for this property.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	184.368	184.368	-	-	-	-	-	-
LAND/R.O.W.	1,254.503	1,254.503	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,438.871	1,438.871	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	117.951	117.951	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	1,200.949	1,200.949	-	-	-	-	-	-
STATE GRANT	66.719	66.719	-	-	-	-	-	-
COUNTY GRANT	33.360	33.360	-	-	-	-	-	-
OTHER	19.892	19.892	-	-	-	-	-	-
TOTAL REVENUES	1,438.871	1,438.871	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Acquire/Obstruction Removal Waffle House 380068

Fund 307 - Airport CIP

CIP NUMBER: **380073**

PROJECT NAME: **Equipment Storage Building (SRE)**

PROJECT MANAGER: **Airport Manager**

SCOPE:

Design and construct an 8,500 square foot equipment storage building to store airport snow removal and mowing equipment.

JUSTIFICATION:

This is part of the airports stage one development plan and included in the 2008 Master Plan. The SRE building design costs will be under a 75%/25% Maryland Aviation Administration Grant (MAA). SRE construction costs will be 75%/25% MAA Grant not to exceed $500,000.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	139.503	139.503	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,400.000	-	1,400.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,539.503	139.503	1,400.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	934.876	34.876	900.000	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	604.627	104.627	500.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,539.503	139.503	1,400.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Equipment Storage Building 380073

Fund 307 - Airport CIP

CIP NUMBER: **380076**

PROJECT NAME: **Northeast T-Hangars**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project is to construct between 72-120 aircraft storage hangars in a location defined on the current Airport Layout Plan (ALP). The hangars will be steel framed with steel siding, on a concrete slab with electrical service for lights, outlets, and bi-fold doors. Water and sewer service will be required for limited bathroom facilities. The project scope includes asphalt paved taxi lanes between hangars, an asphalt taxiway to connect to the existing taxiway system, and a stormwater collection system to collect runoff from the hangars and taxi lanes.

JUSTIFICATION:

A facility inventory and needs assessment was completed for the 2008 Airport Master Plan, and identified the need for more hanger space at FDK. Currently, hangars are 100% leased with a waiting list of about 50 people. This project helps FDK meet the demand for hangar facilities. Additionally, the aging south hangars are planned to be demolished to make room for corporate hangar sites which will displace 22 tenants. Having extra hangar capacity alleviates the need to maintain the deteriorating hangars and ensures a seamless transition for our existing tenants into new facilities.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	1,400.000	-	-	-	1,400.000	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	12,600.000	-	-	-	-	12,600.000	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	14,000.000	-	-	-	1,400.000	12,600.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	14,000.000	-	-	-	1,400.000	12,600.000	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	14,000.000	-	-	-	1,400.000	12,600.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

North East T-Hangars 380076

Fund 307 - Airport CIP

CIP NUMBER: **380086**

PROJECT NAME: **North County Easements**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project includes acquisition of four avigation easements in Frederick County. The properties are located within the Runway 23 approach corridor.

JUSTIFICATION:

These properties are shown as obstructions on the 2008 Airport Layout Plan as well as 1999 Obstruction Removal Plan identified these properties as a penetration of the 34:1 approach surface of RW23.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	100.000	-	-	-	-	50.000	50.000	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	100.000	-	-	-	-	50.000	50.000	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2.500	-	-	-	-	1.250	1.250	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	90.000	-	-	-	-	45.000	45.000	-
STATE GRANT	5.000	-	-	-	-	2.500	2.500	-
COUNTY GRANT	2.500	-	-	-	-	1.250	1.250	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	100.000	-	-	-	-	50.000	50.000	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	-	-	-	-	-	-

North County Easements 380086

Fund 307 - Airport CIP

CIP NUMBER: **380087**

PROJECT NAME: **ALP Site "F1" Hangar Development**

PROJECT MANAGER: **Airport Manager**

SCOPE:

Design and construct a new corporate hangar. An appropriate sized hangar and adjoining parking lot will accommodate a prospective new tenant.

JUSTIFICATION:

This is the most logical planned location on the field to react to the needs of cooperate entities basing planes at the airport.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	400.000	-	-	400.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,600.000	-	-	-	3,600.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	4,000.000	-	-	400	3,600.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	4,000.000	-	-	400.000	3,600.000	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	4,000.000	-	-	400.000	3,600.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	-	-	-	-	-	-

F1 Site (Hangar) 380087

Fund 307 - Airport CIP

CIP NUMBER: **380088**

PROJECT NAME: **Corporate Hangar – P4**

PROJECT MANAGER: **Airport Manager**

SCOPE:

Per the Airport Layout Plan (ALP), this is part of the Stage One development plan for the airport. This 25,000 square foot hangar design and site development costs will be undertaken by the airport. The construction of the actual hangar will be completed by a private entity.

JUSTIFICATION:

Corporate hangar development is a goal established that has been reaffirmed by the Airport Commission during this year's preliminary budget assessments and financial planning efforts. Drawing more corporate operators to FDK is a key piece of the economic self-sustainability of the airport.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	650.000	-	-	650.000	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	5,850.000	-	-	-	5,850.000	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	6,500.000	-	-	650.000	5,850.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	-	-	-	-	-	-	-	-
DEBT ISSUE	300.000	-	-	300.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	6,200.000	-	-	350.000	5,850.000	-	-	-
TOTAL REVENUES	6,500.000	-	-	650.000	5,850.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Corp Hangar P4 380088

Fund 307 - Airport CIP

CIP NUMBER: **380090**

PROJECT NAME: **Ramp Rehabilitation**

PROJECT MANAGER: **Airport Manager**

SCOPE:

Deconstruct, repair, rehabilitate and construct a new 40,000 square foot asphalt ramp from the FBO to the Flight Center.

JUSTIFICATION:

During the 2008 Master Plan Process, a Pavement Condition Index (PCI) was conducted to assist in planning for pavement rehabilitation over the next ten years. This process assesses each section of pavement on the airfield and assigns a numeric value to the overall pavement condition. The rule of thumb is that when the PCI falls below 80 a plan for rehabilitation should begin, and when if falls below 60 construction should begin. The PCI study assigned PCI values that range anywhere from 70 to 25 for the primary ramp. The airport has had to conduct minor pavement repairs on the ramp to address failing and deteriorating sections. Reconstructing the ramp now will prevent the possibility of costly failures later.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	430.000	-	-	-	-	-	430.000	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	3,870.000	-	-	-	-	-	-	3,870.000
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	4,300.000	-	-	-	-	-	430.000	3,870.000

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	107.500	-	-	-	-	-	10.750	96.750
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	3,870.000	-	-	-	-	-	387.000	3,483.000
STATE GRANT	215.000	-	-	-	-	-	21.500	193.500
COUNTY GRANT	107.500	-	-	-	-	-	10.750	96.750
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	4,300.000	-	-	-	-	-	430.000	3,870.000

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Ramp Rehabilitation 380090

Fund 307 - Airport CIP

CIP NUMBER: **380091**

PROJECT NAME: **Airport Layout Plan (ALP)**

PROJECT MANAGER: **Airport Manager**

SCOPE:

The scope of this project is to update all the changes to the ALP since the minor 2012 Update, and make any future adjustment as well. Changes will include the inclusion of additional properties and some physical revisions to the infrastructure on airport property.

JUSTIFICATION:

The last complete ALP revision was completed in 2008, and FAA recommends full updates every 5 years. This is a federally funded and grants eligible undertaking and will be incorporated in a phase of the Bailes Lane or Runway Extension Project. Having an up to date ALP is a requirement of our Grant Assurance Program.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	250.000	-	-	-	-	250.000	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	250.000	-	-	-	-	250.000	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	6.250	-	-	-	-	6.250	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	225.000	-	-	-	-	225.000	-	-
STATE GRANT	12.500	-	-	-	-	12.500	-	-
COUNTY GRANT	6.250	-	-	-	-	6.250	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	250.000	-	-	-	-	250.000	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Airport Layout Plan Update 380091

Fund 307 - Airport CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **380408**

CIP PROJECT: **Site G Parking Garage – Deck 6**

PROJECT MANAGER: **Superintendent of Public Parking**

SCOPE:

The proposed project is to build Deck 6 in Fiscal Year 2018 with a total capacity of 650 spaces on a portion of Site G. Site G is located within the area between S. Carroll St., E. South St., S. East St, and Commerce Street. This new deck will support the Tourism Council of Frederick County building, the Frederick County Board of Education (BOE) Central Office, the Frederick County Housing Authority Hope VI (36 apartment units), the State Government offices located at the Schaffer Building and significant private development projects in Downtown and East Frederick near the East Street extension to I-70.

The project will be built on existing property adjoining the proposed BOE Central Office. Currently, the BOE has decided not to contribute to the construction costs, but rent spaces at market rates, leasing approximately 250 spaces. The subdivision of Site G was completed in 2007 and all vacant buildings demolished. The preliminary cost estimate of the first phase is $15.4 Million.

JUSTIFICATION:

This project is the second phase of a three-phase plan to accommodate downtown parking needs. This project is consistent with the Mayor and Board adopted parking plan which is documented in Final Report, Downtown Frederick Needs Assessment, Recommendations and Implementation Plan (Desman Associates, March 12, 2003), and the July 2001 Downtown Parking Plan. The project is also consistent with the adopted City Comprehensive Plan and the March 21, 2002 East Street Extension Phase I Area Plan.

Phase I included the construction of Parking Deck 4 near the Frederick County Courthouse to meet the immediate parking needs. Phase II was to include the construction of both Deck 5 (completed in 2010) and Deck 6 to provide parking to the East Street Corridor Growth Area and to re-distribute long term users of the structured parking garages. Phase III, the rehab/rebuild of the Church Parking Street Garage was completed in FY2013.

There are multiple private development projects that are planned in the area near Deck 5 and Deck 6 that require structured parking to support proposed high density development projects.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	2,356.000	2,356.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	14,500.000	-	-	14,500.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	16,856.000	2,356.000	-	14,500.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,221.000	1,221.000	-	-	-	-	-	-
DEBT ISSUE	15,635.000	1,135.000	-	14,500.000	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	16,856.000	2,356.000	-	14,500.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE					-	-
EXPENSE					-	-
NET	-	-	-	-	-	-

Site G Parking Deck 380408

Fund 308 - Parking CIP

CIP NUMBER: **380414**

PROJECT NAME: **Court Street Deck Rehab**

PROJECT MANAGER: **Parking Superintendent**

SCOPE:

Repairs to the Court Street Deck include:

- Structural Repair Work, which includes 600 sq. ft. of removal and replacement of deteriorated concrete on vertical and horizontal surfaces, as well as repair and welding of approximately 350 shear connections, replacement of 5 concrete stair nosing's, stair tower door threshold repairs and clean and re-paint approximately 200 precast connections.
- Waterproofing, which includes 16,000 sq. ft. of traffic bearing waterproof membrane, 160,000 sq. ft. of penetrating sealer, and 33,400 sq. ft. of routing and sealing of joints, cracks and spandrels and capstones.
- Painting, which includes restriping of entire parking deck.

JUSTIFICATION:

The Court Street Garage was last repaired in 2003 and is due for repair of joints and re-coating of water proofing membrane system due to normal wear and tear and movement of garage. The deck will be repaired in phases in order to minimize service disruption to the deck customers. This entails sections of repairs being done before moving to other sections. These repairs will continue to take place during FY16 and FY17.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	20.000	20.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	592.650	592.650	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	612.650	612.650	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	612.650	612.650	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	612.650	612.650	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Court Street Deck Rehab 380414

Fund 308 - Parking CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **380415**

PROJECT NAME: **Parking Garage Gateway Mural**

PROJECT MANAGER: **Parking Superintendent**

SCOPE:

The gateway murals will be installed adjacent to the stairwells and the elevator bays on all floors of the Church Street Garage as our prototype for the other four parking garages. It is anticipated that this will be an impetus for grant funds to complete the other four garages. The gateway murals will include both historic and modern imagery as well as wayfinding information. The current design documents are attached for reference. The design phase currently is at 90% complete. The design process is funded separately from this request.

The project implementation process will include hiring a fabricator/installer, completing the construction documents, fabricating the gateway murals and installing the gateway murals. The City and the Downtown Frederick Partnership are planning to hold an unveiling event once the project is complete. Following the unveiling event, the Wayfinding Parking Gateway Murals will be used on a daily basis by the visiting public which includes thousands of people each week. The gateway murals will provide additional information to welcome and guide visitors, improving their visitor experience.

The maintenance of the gateway murals will become a part of the ongoing maintenance costs and responsibilities of the City's Parking Department. As a result, all entities have focused on design solutions which offer the greatest longevity and have the least likelihood of a need for frequent maintenance.

JUSTIFICATION:

On average, about 2,500 vehicles utilize the public parking garages in Downtown Frederick on any given weekend. When focused solely on weekend traffic, a significant percentage of those vehicles are filled with visitors to downtown. Assuming an average of two people per car, one weekend alone represents a missed opportunity to welcome 5,000 visitors to Downtown Frederick. On an annual basis, the parking garages represent an opportunity to welcome more than 260,000 people on the weekends alone. Implementation of the Wayfinding Parking Garage Gateway Mural project provides the mechanism to welcome Downtown Frederick visitors, enhance the visitor experience, increase the friendliness of the public parking system and provide additional information on the unique qualities of this Great American Main Street.

Funding of the Wayfinding Parking Garage Gateway Mural project will result in the implementation of a wayfinding and economic development effort that will positively impact the vitality and viability of Downtown Frederick. Once installed, the gateway murals will serve as "mini" visitor centers, welcoming people to Downtown Frederick at their primary point of arrival – the parking garage. Nearby public attractions will be highlighted in the graphics and wayfinding messages. In some cases, the pedestrian route to the attraction is not obvious and the gateway information will provide clear guidance to visitors. The gateways murals also will improve the visitor experience by providing the visual cues necessary to help patrons find their cars post-visit.

Finally, this project will implement the final major system component originally envisioned to be a part of the Catoctin Mountain Scenic Byway Gateway/Wayfinding Project. Funding of the project will result in the completion of a wayfinding system that represents a significant investment of State and City dollars and has been universally lauded within Frederick and beyond.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	75.000	75.000	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	75.000	75.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	75.000	75.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	75.000	75.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Parking Garage Gateway Mural 380415

Fund 308 - Parking CIP

CIP NUMBER: **110007**

PROJECT NAME: **DPW Emergency Generator**

PROJECT MANAGER: **Deputy Director of Public Works -- Operations**

SCOPE:

The intent of this project is to engineer, purchase and install an emergency generator system to power the City's Department of Public Works facility located at 111 Airport Drive East. Operations located at this facility are responsible for responding to situations under any condition (routine, weather-related, emergency, etc.). Currently there is no backup source in order to accommodate power failure.

This project will include the following deliverables:

1. An engineered system with a complete set of specifications for backup power to serve all facilities within the DPW compound
2. Installation of the system
3. Testing of the newly installed system
4. Testing protocol for continued preventive maintenance
5. Spare parts kit
6. Secondary internet connections and backup servers

JUSTIFICATION:

The Department of Public Works Operations Group cannot effectively respond to City wide emergencies (hurricanes, high wind, snow, tornado, and other threats) without backup power.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	-	-	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	250.000	-	250.000	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	250.000	-	250.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	250.000	-	250.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	250.000	-	250.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

DPW Emergency Generator 110007SW

Fund 309 - Storm Water CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **350001**

PROJECT NAME: **South Street Storm Drain**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

Provide a storm drain system capable of conveying a 10-year storm in a 433 acre drainage area bounded by South Wisner Street, a line extending south from Wisner Street to I-70, I-70, East South Street/Reich's Ford Road, Tilco Drive, Cambridge Drive and Fairfax Court in the Tulip Hill Subdivision, East Patrick Street, Davis Avenue, Harding Alley north of and parallel to East Patrick Street, the racetrack at the fairgrounds, Maryland Avenue, and by Sagner Avenue to its intersection with South Wisner Street.

A study and report shall be bid separately and shall address the following: Hydrologic analyses, area to be served by Stormwater Pumping Station No. 3, the feasibility of expanding Stormwater Pumping Station No. 3, the feasibility of catchments, the feasibility of pumping to the Monocacy River, easements required, Karst topography issues, wetland issues, construction phasing, hydraulic analyses, preliminary pipe and conduit sizes, preliminary pumping station requirements, permits required for each phase, cost of constructing each phase, long term operation and maintenance costs, a cost/benefit analysis, recommendations and a presentation of the final report to the Mayor and Board of Aldermen.

Deliverables associated with this project are:

- A study of the basin to include the above with options for design (FY15)
- A design for the new drainage system or portions thereof (FY16)
- Acquisition of required rights-of-way
- Acquisition of required permits (Obtained as constructed)
- Construction of approximately 15,000 LF of storm drain varying in size from 78 to 12 inches in diameter and approximately 80 storm drain inlets

It may be necessary to obtain permanent easements and construction easements from the Housing Authority of the City of Frederick and from Gene Romsburg Enterprises, Inc. at 33 Hamilton Avenue. This project must be done in conjunction with the water distribution system upsizes that are in the area to optimize road re-surfacing efforts.

JUSTIFICATION:

This drainage basin has a series of disconnected local stormwater systems that inadequately drain the area and have caused no less than 12 problem areas that need to be corrected.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	446.000	146.000	300.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	4,580.865	580.865	-	2,000.000	2,000.000	-	-	-
EQUIPMENT	19.029	19.029	-	-	-	-	-	-
MISCELLANEOUS	1.000	1.000	-	-	-	-	-	-
TOTAL EXPENDITURES	5,046.894	746.894	300.000	2,000.000	2,000.000	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	685.000	385.000	300.000	-	-	-	-	-
DEBT ISSUE	4,361.894	361.894	-	2,000.000	2,000.000	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	5,046.894	746.894	300.000	2,000.000	2,000.000	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

South Street Storm Drain 350001

Fund 309 - Storm Water CIP

CIP NUMBER: **350004**

PROJECT NAME: **Watershed Management Plan**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

Develop a watershed management plan consistent with MDE guidelines to be approved by MDE for the management of the Rock Creek and Carroll Creek watersheds. This plan will analyze the existing conditions, establish watershed goals, identify areas of the watersheds in need of improvement, establish watershed improvement projects with cost estimates for completion, and develop a fee structure to be utilized by the City to insure those projects are funded as development occurs. This plan would provide guidance for the City to meet the requirements of the NPDES permit including retrofit requirements and would provide options for development projects to treat stormwater off site.

JUSTIFICATION:

A watershed management plan will be needed to meet TMDL and WIP requirements and to comply with the new NPDES Phase 2 permit. A watershed management plan will also allow for more flexibility for development and redevelopment in dense urban areas of the City by providing for off-site stormwater management options.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	500.000	500.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	-	-	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	500.000	500.000	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	500.000	500.000	-	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	500.000	500.000	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Watershed Management 350004

Fund 309 - Storm Water CIP

CIP NUMBER: **350005**

PROJECT NAME: **Culler Lake Silt Stormwater Management Upgrades**

PROJECT MANAGER: **Deputy Director of Public Works – Operations**

SCOPE:

The intent of this project is for the City to fund the removal of silt and installation of stormwater management upgrades to Culler Lake. The 2014 estimate for the below work will be in the ~$2.0 M range. The Lake acts as a sediment collection basin for the ~ 66 acre drainage basin (South and West of Hood College) and has not been desilted since 1984. There is approximately 5 feet of silt covering the entire lake bottom which needs to be removed to allow proper desiltation of storm waters and improve the habitat of the aquatic species. While the lake is drained, the upgrade components (gravel filters, embankment contours, and other minor improvements) will be installed. The approximate scope of work will include the following:

- Establish the method by which the upgrade components will be completed. Hire consultants where necessary for design/permitting. Coordinate the effort with the FOBP (Friends of Baker Park) Culler Lake Upgrade Project
- Secure necessary permits
- Hire a contractor to remove the silt, re-establish lake contouring, add gravel filters, stabilize the lake embankments and to stabilize/restore the disturbed site

JUSTIFICATION:

The Lake is a stormwater structure and needs to be de-silted periodically (every 5 to 8 years) so that it continues to work as designed. Routine maintenance has not been funded causing the deterioration of the effectiveness of the Lake as a storm water structure/habitat. Continuing with no maintenance will increase the volume of silts discharged into Carroll Creek reducing the effectiveness of the Flood Control Conduits. In addition, there are newly-designed habitat improvement components that are to be installed while the lake is drained.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	200.000	200.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	2,303.500	2,303.500	-	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	2,503.500	2,503.500	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	2,110.000	2,335.000	(225.000)	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	350.000	125.000	225.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	43.500	43.500	-	-	-	-	-	-
TOTAL REVENUES	2,503.500	2,503.500	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Culler Lake Silt Removal 350005

Fund 309 - Storm Water CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **350006**

PROJECT NAME: **Storm Water Pump Station #4 Rehabilitation**

PROJECT MANAGER: **Deputy Director of Public Works - Operations**

SCOPE:

The intent of this project is to engineer, purchase and install equipment to replace the failing storm water pumping station #4 along Carroll Creek near Highland Avenue.

The project will include the following deliverables:

PHASE ONE:

- Hire an Engineer to design refurrbishments to the Storm Water PS#4 along Carroll Creek. This effort will include specifications and bid Documents for the necessary work (mechanical, electrical and structural)
- Acquire all necessary permits

PHASE TWO:

- Demo and dispose of existing hydraulic skids, pumps, underground hydraulic piping, and dispose of potentially contaminated soils.
- Demo existing engine intake and exhaust louvers/dampers and patch-up (CMU) any related openings that will be unused.
- Provide and install new pumps (probably submersible or enclosed vertical line shaft type) using the existing capacity design point.
- Provide and install a new generator (indoor) and transfer switch.
- Provide and install two new SSRV motor controllers and integrate with existing pump controller and alarm system.
- Spare parts kit

JUSTIFICATION:

The current hydraulically powered pump station is failing, leaks fluids and needs to be modernized.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	150.000	-	150.000	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	1,000.000	750.000	-	250.000	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	1,150.000	750.000	150.000	250.000	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	1,150.000	750.000	150.000	250.000	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	-	-	-	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	1,150.000	750.000	150.000	250.000	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:							
	REVENUE						
	EXPENSE						
	NET	0	0	0	0	0	0

Pump Station 4 Rehab 350006

Fund 309 - Storm Water CIP

THE CITY OF FREDERICK, MARYLAND – CAPITAL IMPROVEMENTS PROGRAM FY 2017-2022

CIP NUMBER: **350007**

PROJECT NAME: **Stream Restoration**

PROJECT MANAGER: **Director of Public Works**

SCOPE:

This project is to provide funds to allow the City of Frederick to undertake projects that will help restore stream corridors and help improve waterway health. Projects may be recommended through the Watershed Management Plan and could include:

- Bank and channel restoration
- Riparian buffer plantings to create vegetated stream corridor
- Wetland habitat creation and/or restoration

JUSTIFICATION:

Completed projects will improve water quality by reducing non-point source pollutants, creating habitat corridors for wildlife, and providing green space for residents. Stream corridor restoration could positively impact quality of life, help lower costs for treating water supply, and increase urban tree canopy coverage.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	150.000	150.000	-	-	-	-	-	-
LAND/R.O.W.	-	-	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	400.000	-	400.000	-	-	-	-	-
EQUIPMENT	-	-	-	-	-	-	-	-
MISCELLANEOUS	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	550.000	150.000	400.000	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	350.000	150.000	200.000	-	-	-	-	-
DEBT ISSUE	-	-	-	-	-	-	-	-
SPECIAL ASSESSMENT	-	-	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	-	-	-	-	-	-	-	-
STATE GRANT	200.000	-	200.000	-	-	-	-	-
COUNTY GRANT	-	-	-	-	-	-	-	-
OTHER	-	-	-	-	-	-	-	-
TOTAL REVENUES	550.000	150.000	400.000	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Stream Restoration 350007

Fund 309 - Storm Water CIP

CIP NUMBER: **350020**

PROJECT NAME: **Carroll Creek Flood Control Project**

PROJECT MANAGER: **Deputy Director of Engineering**

SCOPE:

Construct an approximately 3,750 sq. ft. brick and block building, with public restrooms for Carroll Creek Park, on top of Pumping Station No. 3; remove electrical controls from the dry well below grade and reinstall inside the new building; install a backup level sensor that will provide continuous remote data on water levels in the pumping station wet well. Note that completion of the Gas House Pike levee previously included in this CIP is now part of the Monocacy Boulevard Central Section design and construction.

JUSTIFICATION:

Completion of the Carroll Creek Flood Control Project is intended to eliminate flooding in downtown Frederick caused by high flows on the Monocacy River. Raising the controls for Pump Station Number 3 above grade will significantly reduce the risk of pump station failure during flood events.

Expressed in Thousands

EXPENDITURES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
PLANNING/ENG.	6,926.800	6,926.800	-	-	-	-	-	-
LAND/R.O.W.	6,478.000	6,478.000	-	-	-	-	-	-
UTILITIES	-	-	-	-	-	-	-	-
CONSTRUCTION	41,513.205	41,513.205	-	-	-	-	-	-
EQUIPMENT	7.000	7.000	-	-	-	-	-	-
MISCELLANEOUS	230.000	230.000	-	-	-	-	-	-
TOTAL EXPENDITURES	55,155.005	55,155.005	-	-	-	-	-	-

REVENUES	TOTAL	TO-DATE	FY17	FY18	FY19	FY20	FY21	FY22
CITY OPERATING	6,889.629	6,889.629	-	-	-	-	-	-
DEBT ISSUE	15,122.809	15,122.809	-	-	-	-	-	-
SPECIAL ASSESSMENT	383.000	383.000	-	-	-	-	-	-
IMPACT FEES	-	-	-	-	-	-	-	-
FEDERAL GRANT	508.731	508.731	-	-	-	-	-	-
STATE GRANT	20,065.200	20,065.200	-	-	-	-	-	-
COUNTY GRANT	12,128.000	12,128.000	-	-	-	-	-	-
OTHER	57.636	57.636	-	-	-	-	-	-
TOTAL REVENUES	55,155.005	55,155.005	-	-	-	-	-	-

ESTIMATED OPERATING BUDGET IMPACT:

REVENUE						
EXPENSE						
NET	0	0	0	0	0	0

Carroll Creek Flood Control Project 350020

Fund 309 - Storm Water CIP

The City of Frederick
Maryland

Randy McClement, Mayor

<u>Aldermen</u>
Kelly Russell, *President Pro Tem*
Michael O'Connor
Philip Dacey
Joshua Bokee
Donna Kuzemchak

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