

FISCAL YEARS 2018-2022

CAPITAL IMPROVEMENT PROGRAM



Donna D. Holaday, Mayor
City of Newburyport

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I. Executive Summary

Dear President & Members of the City Council:

I am pleased to submit herewith the proposed Fiscal Years 2018-2022 Capital Improvement Program (CIP). All projects listed under FY2018 have been, or are expected to be, funded during this current fiscal year. All projects listed under FY2019 through FY2022 will require funding through a combination of sources as noted on the project detail sheets. As you are aware, I have placed significant emphasis on the importance of developing an organized and coordinated CIP for the City. This has proved to be a useful tool for the City and is now an integral component of the City's long-range financial planning process.

The format and organization of the CIP is designed to include: 1) a description and justification of each project, 2) the year in which the project or acquisition is planned, and 3) the recommended financing mechanism. As you will see, the City seeks to fund more projects using available funds, such as Grants, Special Revenue Funds, Free Cash and Retained Earnings, rather than issuing debt.

Development of the CIP

Prior to the implementation of the CIP, individual departments maintained their own capital budgets. This practice provided an inventory of capital needs for each department but did not engender a comprehensive and holistic approach to capital planning. Prior to FY2013, the City was not able to offer an adequate long-term funding program to address important City-wide infrastructure improvements, replace deteriorating equipment, and repair and renovate facilities.

Since FY2013, I have prioritized the continued development and refinement of a comprehensive capital improvement plan that incorporates the capital needs of all City Departments with a practical funding plan for each year of the program. Department Heads have worked with the Mayor's Office to identify and/or update their most important capital needs for FY2018 through FY2022. Significant time has been spent on developing a realistic funding schedule within the confines of the City's financial resources and aligned with the City's financial policies.

I have deliberately included fully funded projects and acquisitions during FY2018 in this CIP to reflect the progress that has been made during the current fiscal year. My hope is that the City Council will continue to recognize the value and importance of committing to funding planned projects and acquisitions on an annual basis, while also acknowledging that the City is faced with new and unexpected capital challenges every year. On the following page, is a list of capital projects funded or anticipated to be funded during FY2018 totaling \$6.9 million.

CAPITAL IMPROVEMENT PROGRAM: FY2018-FY2022

FY2018 Capital Funding

CIP #	Page	Department	Project	Amount	Funding Source
IT001	13	Information Technology	IT Hardware	\$53,235	Free Cash
FD009	22	Fire	New Front Entryway / Rear Door for HQ	\$20,000	Free Cash
PD001	23	Police	Garage Doors	\$25,000	Free Cash
PD004	26	Police	Locker Replacement	\$30,000	Free Cash
PL002	31	Planning & Development	Intermodal Structured Parking Facility	\$2,500,000	Parking Bond & State/Federal Grants
PL005	34	Planning & Development	Clipper City Rail Trail Phase III	\$75,000	State Grant
PK002	37	Parks	Cushing Park Improvement Project	\$19,720	Local Grant
PK003	38	Parks	Joppa Park Improvement Project	\$16,000	Local Grant
PK004	39	Parks	Inn Street Site Amenities	\$10,000	Local Grant
PK005	40	Parks	Field Improvement- Construction Projects - Fuller Complex	\$43,227	General Fund Excluded Debt, CPA Grant
PK006	41	Parks	Tractor	\$47,322	Free Cash
CA001	47	Council on Aging	Purchase of 14 Passenger Van	\$60,000	Free Cash, Trust Funds, State Grant
LI001	48	Library	Carpet Replacement	\$18,054	Local Grant
SC002	51	Schools	Nock-Parking Repaving & Lighting Upgrades	\$475,000	Surplus Capital Project Funds
SC003	52	Schools	Nock-Walkway/Sidewalk Repairs and Repaving	\$15,000	Surplus Capital Project Funds
SC006	55	Schools	Nock-Elevator Controls Modernization	\$303,710	Surplus Capital Project Funds
SC007	56	Schools	Nock-Furniture Replacement	\$25,000	Surplus Capital Project Funds
SC010	59	Schools	High School Exterior Woodwork Project	\$55,268	CPA Grant
SC011	60	Schools	High School Boiler #2 Interior Brickwork	\$14,000	Surplus Capital Project Funds
SC012	61	Schools	High School Masonry Repairs	\$50,000	Surplus Capital Project Funds
SC013	62	Schools	High School-Concrete/Sidewalk Repairs	\$15,000	Surplus Capital Project Funds
SC014	63	Schools	High School-Front Walkway Extension	\$15,000	Surplus Capital Project Funds
SC019	68	Schools	High School Ground Floor Vestibules	\$30,000	Surplus Capital Project Funds
HW003	72	DPS - Highway	Drainage Improvement Projects Phase 1	\$200,000	General Fund Debt
HW004	73	DPS - Highway	Purchase of 6 Wheel Dump Truck with Plow	\$135,000	Free Cash
HW009	78	DPS - Highway	Roadway Paving Improvement	\$1,217,539	Free Cash, Ch. 90 Funding
HW010	79	DPS - Highway	Sidewalk Replacement/New Construction Program	\$300,000	Meals Tax
SW007	90	DPS - Sewer	Purchase 1 1/2 Ton Diesel Dump Truck w/plow	\$60,000	Water/Sewer User Fees
SW008	91	DPS - Sewer	Purchase of Ten Wheel Dump Truck	\$200,000	Water/Sewer User Fees
WA001	93	DPS - Water	Water Main Replacement	\$325,000	Water/Sewer User Fees
WA003	95	DPS - Water	Route One Water Main Project	\$350,000	Water/Sewer User Fees
WA004	96	DPS - Water	Meter Replacement Project (Water/Sewer)	\$100,000	Water/Sewer User Fees
WA005	97	DPS - Water	Lower Artichoke Reservoir Dam Improvement	\$80,000	Water/Sewer User Fees
WA007	99	DPS - Water	Water Supply Reservoirs - Water Quality Improvements	\$50,000	Water/Sewer User Fees
Total				\$6,933,075	

Free Cash Policy

Working with our Finance Team, I have developed a Free Cash Policy that provides direction for how the City appropriates its Free Cash. In its most basic definition, Free Cash is the fiscal year-end combination of revenues that come in higher than estimated and expenditures that come in lower than budgeted. After the June 30 close of the fiscal year, the City's Free Cash is certified by the State Department of Revenue (DOR) and available for appropriation. Free Cash must be certified by the DOR's Director of Accounts as of July 1, and cannot be appropriated until it is certified. Once certified, Free Cash can be appropriated up until the following June 30 by City Council for any legal spending purpose. Free Cash is the major source of funding for supplemental appropriations after the budget has been adopted and a tax rate has been set for the year. Maintaining a healthy Free Cash balance gives the City adequate flexibility to address the priority items in the CIP instead of continuing to defer our capital needs.

Free Cash is generated when actual operations of the fiscal year compare favorably with budgeted revenues and expenditures. It results when actual revenue collections exceed the estimates used for budgeting and actual expenditures and encumbrances (committed funds not yet expended) are less than appropriations. Free Cash is affected by uncollected property tax receivables, illegal deficits, overdrawn grant accounts and deficits in other funds (e.g., special revenue funds, agency funds).

According to the Financial Policies that were formally adopted in 2012, Free Cash balances should generally be used for non-recurring expenses. The Free Cash Policy attempts to align one-time revenues with appropriate one-time expenditures. To that end, the following are explicitly authorized uses of Free Cash under this policy:

- Limited Subsidy of the Operating Budget
- Capitalize the Stabilization Fund
- Capital Improvement Program
- Extraordinary Deficits & Emergency Appropriations

In keeping with the intent of this policy, an appropriate use of Free Cash is to fund capital projects that would have otherwise incurred borrowing costs associated with the issuance of debt. The financing of small capital projects or equipment is not considered a best practice for a community our size. Although perfectly legal, the City will continue to move away from incurring debt for vehicles and small equipment purchases and projects.

Bond rating agencies prefer to see cities using a pay-as-you-go approach for smaller capital projects. The one-time nature of Free Cash makes it an appropriate use for one-time capital expenditures. If, for some reason, sufficient Free Cash does not materialize in a given year, the City may borrow for capital projects, or delay them without causing immediate impacts to the operating budget and related services.

CIP Assumptions

The FY2018-2022 CIP is based on the following budgetary assumptions. The City will:

- Continue to build cash reserves, setting a minimum threshold Free Cash balance of \$500,000 or 1% of the tax levy, whichever is greater;
- Continue to conservatively estimate New Growth;
- Not use funds from General Stabilization for ordinary capital improvements;
- Continue to actively pursue State and Federal funding opportunities and leverage an annual allotment of Community Preservation Act funds; and
- Continue to fund a grant writer to assist in securing outside funding to subsidize particular projects and infrastructure investments.

Overview of the CIP

The CIP includes projects with a five year total estimated cost of \$73,634,409. The projects are divided into five main categories, as shown in the table and graph on the following page.

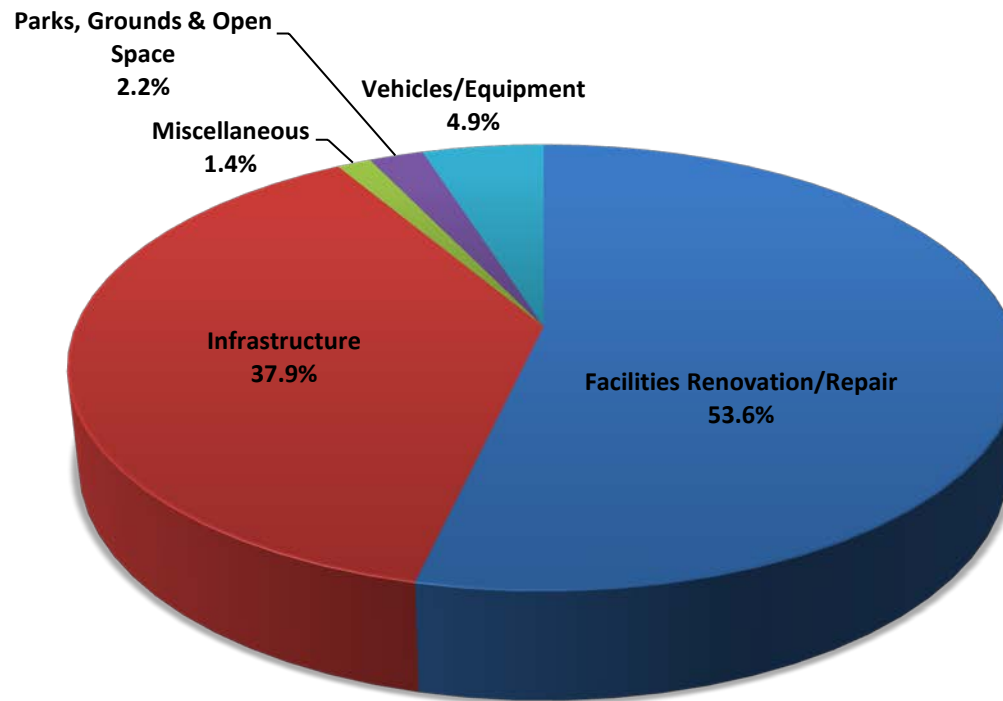
The graph on the page following illustrates that 53.6% of spending is for facilities renovation and repair. A significant portion of this spending is for the Parking Garage/Intermodal Facility Project, with an estimated project cost of \$13.4 million, as well as, a High School Science Wing Addition & Renovation Project, with an estimated cost of \$11.0 million. Additional projects include finding a permanent home for Youth Services, upgrades and renovations to the City's two fire stations, along with roof replacements at various municipal buildings. The CIP also identifies and anticipates continued investments in existing City buildings, such as HVAC improvements, carpet replacements, garage door replacements, officer locker replacements, among others.

Investments in infrastructure represent 37.9% of the total spending included in the CIP. Infrastructure is the core of any CIP and Newburyport continues to budget capital investments in the City's water and sewer systems, drainage, roadways and sidewalks and information technology. Now that the City has tackled many of the more challenging and costly capital projects over the past several years, we must now put additional emphasis on improving the City's roadways and sidewalks, which are in desperate need of additional funding as the state's Chapter 90 allocation does not do nearly enough. As such, the City has appropriated an additional \$300,000 in the first half of FY2018 and I will be recommending a second appropriation by the end of the fiscal year. In addition to improving our roadways and sidewalks, my administration has also begun tackling some of the major drainage issues throughout the City with the \$835,000 loan order that was approved by the City Council in FY2017.

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The third largest category of capital spending is for vehicles and equipment, representing 4.9% of total spending in the CIP. The largest piece of equipment needed in the next five years is a ladder truck for the Fire Department, with an estimated cost of \$1.2 million; the city applied for a Homeland Security Grant that would potentially fund up to \$500,000 of the cost, if approved. In addition to the ladder truck, we must continue to maintain our fleet of vehicles and equipment used predominantly by the Department of Public Services, Police, Fire, Council on Aging, Youth Services, Parks and Harbormaster.

Project Costs by Project Type



Funding the CIP

The City remains committed to making annual capital investments through a diverse stream of funding sources. As such, the City has been able to maintain a strong financial position by leveraging State and Federal funds, grants, CPA funds, and strong Free Cash and Retained Earning balances to fund many capital improvements and purchases. This has limited the City's need to borrow to fund smaller capital improvements. The funding philosophy behind the CIP was to continue to fund and invest in capital without

CAPITAL IMPROVEMENT PROGRAM: FY2018-FY2022

drastically increasing the debt burden. As recommended in the best practices report released by the Division of Local Services, the City will continue ensure sustainable funding for our Capital Improvement Program by way of maintaining minimum funding target of 8.0% of annual revenue. Over the past five years, the City has funded capital at 8.2% of annual revenue. This minimum ratio becomes an especially useful tool so that, as debt service from older capital projects rolls off, those funds will not be earmarked for other operating needs, but instead retained for future capital investments.

Below is a summary of anticipated project costs for fiscal years 2018 through 2022:

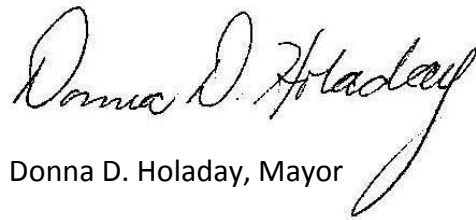
Project Costs by Department

Estimated Project Costs by Fiscal Year						
Department	FY2018	FY2019	FY2020	FY2021	FY2022	Five-Year Total
Information Technology	53,235	53,235	53,235	53,235	-	212,940
Fire	20,000	1,555,000	3,105,000	5,105,000	-	9,785,000
Police	55,000	30,000	13,200	55,000	-	153,200
Sustainability	-	-	650,000	-	-	650,000
Planning & Development	2,575,000	11,116,372	2,650,000	800,000	3,000,000	20,141,372
Council on Aging	60,000	-	-	-	-	60,000
Library	18,054	28,436	-	-	-	46,490
Youth Services	-	2,000,000	-	-	-	2,000,000
Parks	136,269	412,120	48,000	277,100	-	873,489
Schools	997,978	445,000	1,910,245	55,000	11,015,000	14,423,223
DPS - Highway	1,852,539	3,555,539	6,910,539	4,867,539	1,117,539	18,303,695
Total General Fund	\$5,768,075	\$19,195,702	\$15,340,219	\$11,212,874	\$15,132,539	\$66,649,409
DPS - Sewer	260,000	475,000	125,000	-	1,000,000	1,860,000
DPS - Water	905,000	855,000	2,090,000	575,000	700,000	5,125,000
Total Enterprise Funds	\$1,165,000	\$1,330,000	\$2,215,000	\$575,000	\$1,700,000	\$6,985,000
Total Capital Improvements	\$6,933,075	\$20,525,702	\$17,555,219	\$11,787,874	\$16,832,539	\$73,634,409

Conclusion

I want to thank everyone who has helped to make this CIP not just a document, but a real plan. The City continues to make great strides towards improving its capital planning. The capital budget on the following pages highlights the City's ongoing responsibility to maintain its facilities, vehicles, equipment, and infrastructure, and to make the necessary capital investments to meet the needs of our community. Many projects continue to be deferred in order to keep the funding mechanisms realistic, but hopefully those can be included in the CIP in subsequent years. The CIP is a living document in the truest sense and will continue to be revaluated and updated on an annual basis as part of the budget process. The CIP will also continue to be included as an appendix to the annual operating budget and it is my intention to aggressively pursue funding for each year of the program.

Respectfully submitted,

A handwritten signature in black ink, reading "Donna D. Holaday". The signature is written in a cursive, flowing style. The first name "Donna" is written in a larger, more prominent script, followed by "D." and "Holaday". The signature is positioned above the printed name.

Donna D. Holaday, Mayor

CAPITAL IMPROVEMENT PROGRAM: FY2018-FY2022

II. FY 2018-2022 CIP Summary

CIP #	Page	Department	Project Description	FY2018	FY2019	FY2020	FY2021	FY2022	Five-Year Total
IT001	13	Information Technology	IT Hardware	\$53,235	\$53,235	\$53,235	\$53,235	\$0	\$212,940
		Information Technology Total		\$53,235	\$53,235	\$53,235	\$53,235	\$0	\$212,940
FD001	14	Fire	Rechassis Forestry Pumper	\$0	\$0	\$0	\$50,000	\$0	\$50,000
FD002	15	Fire	Replace/Update Radio Equipment	\$0	\$55,000	\$55,000	\$55,000	\$0	\$165,000
FD003	16	Fire	Replacement Aerial Ladder Fire Truck	\$0	\$1,200,000	\$0	\$0	\$0	\$1,200,000
FD004	17	Fire	Type III Ambulance	\$0	\$200,000	\$0	\$0	\$0	\$200,000
FD005	18	Fire	Replacement of Fire Station # 2	\$0	\$0	\$0	\$5,000,000	\$0	\$5,000,000
FD006	19	Fire	Architectural Study and Design for Fire Station	\$0	\$100,000	\$0	\$0	\$0	\$100,000
FD007	20	Fire	Renovation of NFD Headquarters Station	\$0	\$0	\$3,000,000	\$0	\$0	\$3,000,000
FD008	21	Fire	SCBA Replacement	\$0	\$0	\$50,000	\$0	\$0	\$50,000
FD009	22	Fire	New Front Entryway / Rear Door for HQ	\$20,000	\$0	\$0	\$0	\$0	\$20,000
		Fire Total		\$20,000	\$1,555,000	\$3,105,000	\$5,105,000	\$0	\$9,785,000
PD001	23	Police	Garage Doors	\$25,000	\$0	\$0	\$0	\$0	\$25,000
PD002	24	Police	Facility Weatherproofing	\$0	\$0	\$0	\$25,000	\$0	\$25,000
PD003	25	Police	Carpet Replacement	\$0	\$0	\$0	\$30,000	\$0	\$30,000
PD004	26	Police	Locker Replacement	\$30,000	\$0	\$0	\$0	\$0	\$30,000
PD005	27	Police	Radar Units	\$0	\$0	\$13,200	\$0	\$0	\$13,200
PD006	28	Police	Records Room Renovation	\$0	\$30,000	\$0	\$0	\$0	\$30,000
		Police Total		\$55,000	\$30,000	\$13,200	\$55,000	\$0	\$153,200
SU001	29	Sustainability	HVAC Improvements - City Hall	\$0	\$0	\$650,000	\$0	\$0	\$650,000
		Sustainability Total		\$0	\$0	\$650,000	\$0	\$0	\$650,000
PL001	30	Planning & Development	Fish Pier Embayment Dredging	\$0	\$0	\$50,000	\$700,000	\$0	\$750,000
PL002	31	Planning & Development	Intermodal Structured Parking Facility	\$2,500,000	\$10,916,372	\$0	\$0	\$0	\$13,416,372
PL003	32	Planning & Development	Central Waterfront Bulkhead Phase II	\$0	\$0	\$0	\$100,000	\$3,000,000	\$3,100,000
PL004	33	Planning & Development	Central Waterfront Rail Trail Extension/Park Expansion	\$0	\$0	\$850,000	\$0	\$0	\$850,000
PL005	34	Planning & Development	Clipper City Rail Trail Phase III	\$75,000	\$100,000	\$1,750,000	\$0	\$0	\$1,925,000
PL006	35	Planning & Development	Permit Tracking Software	\$0	\$100,000	\$0	\$0	\$0	\$100,000
		Planning & Development Total		\$2,575,000	\$11,116,372	\$2,650,000	\$800,000	\$3,000,000	\$20,141,372
PK001	36	Parks	Bartlet Mall Frog Pond Restoration	\$0	\$40,500	\$0	\$0	\$0	\$40,500
PK002	37	Parks	Cushing Park Improvement Project	\$19,720	\$0	\$20,000	\$212,100	\$0	\$251,820
PK003	38	Parks	Joppa Park Improvement Project	\$16,000	\$69,000	\$0	\$0	\$0	\$85,000
PK004	39	Parks	Inn Street Site Amenities	\$10,000	\$20,000	\$0	\$0	\$0	\$30,000
PK005	40	Parks	Field Improvement - Fuller Complex	\$43,227	\$200,000	\$0	\$0	\$0	\$243,227
PK006	41	Parks	Tractor	\$47,322	\$0	\$0	\$0	\$0	\$47,322
PK007	42	Parks	Mini-excavator Purchase	\$0	\$0	\$0	\$65,000	\$0	\$65,000
PK008	43	Parks	Ventrak Slope Mower	\$0	\$0	\$28,000	\$0	\$0	\$28,000
PK009	44	Parks	Purchase of Used Pickup Truck	\$0	\$25,000	\$0	\$0	\$0	\$25,000
PK010	45	Parks	Fuller North Field Irrigation System	\$0	\$30,000	\$0	\$0	\$0	\$30,000

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CIP #	Page	Department	Project Description	FY2018	FY2019	FY2020	FY2021	FY2022	Five-Year Total
PK011	46	Parks	Worksite Utility Vehicle	\$0	\$27,620	\$0	\$0	\$0	\$27,620
		Parks Total		\$136,269	\$412,120	\$48,000	\$277,100	\$0	\$873,489
CA001	47	Council on Aging	Purchase of 14 Passenger Van	\$60,000	\$0	\$0	\$0	\$0	\$60,000
		Council on Aging Total		\$60,000	\$0	\$0	\$0	\$0	\$60,000
LI001	48	Library	Carpet Replacement	\$18,054	\$28,436	\$0	\$0	\$0	\$46,490
		Library Total		\$18,054	\$28,436	\$0	\$0	\$0	\$46,490
YS001	49	Youth Services	Recreation Center	\$0	\$2,000,000	\$0	\$0	\$0	\$2,000,000
		Youth Services Total		\$0	\$2,000,000	\$0	\$0	\$0	\$2,000,000
SC001	50	Schools	High School Science Wing Addition & Renovation	\$0	\$0	\$0	\$0	\$11,000,000	\$11,000,000
SC002	51	Schools	Nock-Parking Repaving & Lighting Upgrades	\$475,000	\$0	\$0	\$0	\$0	\$475,000
SC003	52	Schools	Nock-Walkway/Sidewalk Repairs and Repaving	\$15,000	\$15,000	\$15,000	\$15,000	\$15,000	\$75,000
SC004	53	Schools	Nock-Tennis Court Renovation	\$0	\$0	\$47,950	\$0	\$0	\$47,950
SC005	54	Schools	Nock-Gym & Auditorium Roof Replacement	\$0	\$0	\$662,295	\$0	\$0	\$662,295
SC006	55	Schools	Nock-Elevator Controls Modernization	\$303,710	\$0	\$0	\$0	\$0	\$303,710
SC007	56	Schools	Nock-Furniture Replacement	\$25,000	\$25,000	\$25,000	\$0	\$0	\$75,000
SC008	57	Schools	High School Roof Replacement	\$0	\$0	\$900,000	\$0	\$0	\$900,000
SC009	58	Schools	High School Auditorium Plaster Repairs	\$0	\$0	\$100,000	\$0	\$0	\$100,000
SC010	59	Schools	High School Exterior Woodwork Project	\$55,268	\$75,000	\$0	\$0	\$0	\$130,268
SC011	60	Schools	High School Boiler #2 Interior Brickwork	\$14,000	\$0	\$0	\$0	\$0	\$14,000
SC012	61	Schools	High School Masonry Repairs	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000
SC013	62	Schools	High School-Concrete/Sidewalk Repairs	\$15,000	\$15,000	\$15,000	\$15,000	\$0	\$60,000
SC014	63	Schools	High School-Front Walkway Extension	\$15,000	\$0	\$0	\$0	\$0	\$15,000
SC015	64	Schools	High School Perimeter Stone Wall Repairs	\$0	\$75,000	\$0	\$0	\$0	\$75,000
SC016	65	Schools	High School Additional Parking Spaces and Curbing	\$0	\$0	\$100,000	\$0	\$0	\$100,000
SC017	66	Schools	High School Furniture Replacement	\$0	\$20,000	\$20,000	\$0	\$0	\$40,000
SC018	67	Schools	High School Carpet Replacement	\$0	\$0	\$25,000	\$25,000	\$0	\$50,000
SC019	68	Schools	High School Ground Floor Vestibules	\$30,000	\$0	\$0	\$0	\$0	\$30,000
SC020	69	Schools	High School Technology	\$0	\$170,000	\$0	\$0	\$0	\$170,000
		Schools Total		\$997,978	\$445,000	\$1,910,245	\$55,000	\$11,015,000	\$14,423,223
HW001	70	DPS - Highway	Parker Street/Scotland Road Culvert Replacement	\$0	\$0	\$200,000	\$700,000	\$0	\$900,000
HW002	71	DPS - Highway	Brown's Wharf Culvert Replacement Phase II	\$0	\$0	\$90,000	\$550,000	\$0	\$640,000
HW003	72	DPS - Highway	Drainage Improvement Projects Phase 1	\$200,000	\$235,000	\$0	\$0	\$0	\$435,000
HW004	73	DPS - Highway	Purchase of 6 Wheel Dump Truck with Plow	\$135,000	\$135,000	\$135,000	\$0	\$0	\$405,000
HW005	74	DPS - Highway	Purchase of Trackless Snow Blower	\$0	\$0	\$128,000	\$0	\$0	\$128,000
HW006	75	DPS - Highway	Purchase 1 1/2 Ton Diesel Dump Truck w/plow	\$0	\$85,000	\$0	\$0	\$0	\$85,000
HW007	76	DPS - Highway	Purchase 3/4 Gas Pick-up Truck with Plow	\$0	\$33,000	\$0	\$0	\$0	\$33,000
HW008	77	DPS - Highway	Stonewall at Highland Cemetery - Repair	\$0	\$0	\$40,000	\$0	\$0	\$40,000
HW009	78	DPS - Highway	Roadway Paving Improvement	\$1,217,539	\$1,017,539	\$817,539	\$817,539	\$817,539	\$4,687,695

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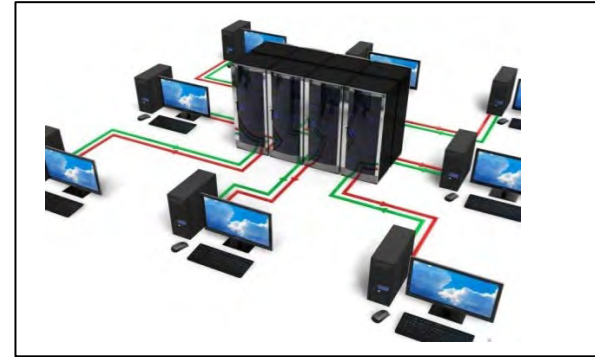
CIP #	Page	Department	Project Description	FY2018	FY2019	FY2020	FY2021	FY2022	Five-Year Total
HW010	79	DPS - Highway	Sidewalk Replacement/New Construction Program	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000
HW011	80	DPS - Highway	Purchase of Tree Truck / Bucket Truck	\$0	\$0	\$200,000	\$0	\$0	\$200,000
HW012	81	DPS - Highway	Roof Replacements - DPS / Library / Fire	\$0	\$1,000,000	\$0	\$0	\$0	\$1,000,000
HW013	82	DPS - Highway	Downtown Water/Sewer/Drain Utility Upgrades	\$0	\$300,000	\$0	\$0	\$0	\$300,000
HW014	83	DPS - Highway	Phillips Drive Roadwork and Drainage	\$0	\$350,000	\$2,500,000	\$2,500,000	\$0	\$5,350,000
HW015	84	DPS - Highway	Plummer Spring Bridge Replacement	\$0	\$100,000	\$2,500,000	\$0	\$0	\$2,600,000
		DPS - Highway Total		\$1,852,539	\$3,555,539	\$6,910,539	\$4,867,539	\$1,117,539	\$18,303,695
SW001	85	DPS - Sewer	Turkey Hill Sewer Main Replacement	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000
SW002	86	DPS - Sewer	CCTV and Cleaning Sewer Downtown	\$0	\$100,000	\$0	\$0	\$0	\$100,000
SW003	87	DPS - Sewer	Sewer and Manhole Replacement Project	\$0	\$300,000	\$0	\$0	\$0	\$300,000
SW004	88	DPS - Sewer	New Crane Truck	\$0	\$0	\$75,000	\$0	\$0	\$75,000
SW005	89	DPS - Sewer	Bobcat Loader	\$0	\$0	\$50,000	\$0	\$0	\$50,000
SW006	90	DPS - Sewer	Purchase 1 1/2 Ton Diesel Dump Truck w/plow	\$60,000	\$0	\$0	\$0	\$0	\$60,000
SW007	91	DPS - Sewer	Purchase of Ten Wheel Dump Truck	\$200,000	\$0	\$0	\$0	\$0	\$200,000
SW008	92	DPS - Sewer	WWTF and Sewer System Resiliency Plan	\$0	\$75,000	TBD	\$0	\$0	\$75,000
		DPS - Sewer Total		\$260,000	\$475,000	\$125,000	\$0	\$1,000,000	\$1,860,000
WA001	93	DPS - Water	Water Main Replacement	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
WA002	94	DPS - Water	Purchase of Six Wheel Dump Truck	\$0	\$0	\$0	\$0	\$175,000	\$175,000
WA003	95	DPS - Water	Route One Water Main Project	\$350,000	\$0	\$0	\$0	\$0	\$350,000
WA004	96	DPS - Water	Meter Replacement Project (Water/Sewer)	\$100,000	\$200,000	\$200,000	\$200,000	\$200,000	\$900,000
WA005	97	DPS - Water	Lower Artichoke Reservoir Dam Improvement	\$80,000	\$40,000	\$40,000	\$0	\$0	\$160,000
WA006	98	DPS - Water	Public Water Supply Protection	\$0	\$50,000	\$0	\$0	\$0	\$50,000
WA007	99	DPS - Water	Water Supply - Quality Improvements	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$200,000
WA008	100	DPS - Water	New Hypochlorite Day Tank System	\$0	\$0	\$25,000	\$0	\$0	\$25,000
WA009	101	DPS - Water	Public Water Supply Resiliency Plan	\$0	\$40,000	\$0	\$0	\$0	\$40,000
WA010	102	DPS - Water	Replace Water Supply Line Through Moseley Woods	\$0	\$50,000	\$350,000	\$0	\$0	\$400,000
WA011	103	DPS - Water	Replace Water Supply Line to Route 113	\$0	\$100,000	\$1,100,000	\$0	\$0	\$1,200,000
		DPS - Water Total		\$905,000	\$855,000	\$2,090,000	\$575,000	\$700,000	\$5,125,000
Grand Total				\$6,933,075	\$20,525,702	\$17,555,219	\$11,787,874	\$16,832,539	\$73,634,409

III. Project Detail Sheets by Department (following pages)

PROJECT DETAIL SHEET (IT001)

IT Hardware

Department:	Information Technology
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$212,940
Estimated Useful Life:	4 Years

**Description and Justification:**

Ongoing Computer Equipment Maintenance and Renewal:
 2018 (30) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches
 2019 (30) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches
 2020 (30) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches
 2021 (30) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches
 2022 (30) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches

Estimated Project Costs by Fiscal Year	
FY2018	\$53,235
FY2019	\$53,235
FY2020	\$53,235
FY2021	\$53,235
FY2022	\$0
Total Five-Year Cost	\$212,940

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD001)

Rechassis Forestry Pumper

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$50,000
Estimated Useful Life:	15 Years

**Description and Justification:**

This 2005 vehicle is currently in service with an unreliable 6.0 diesel motor which causes it to be underpowered and overloaded. The vehicle continues to be a maintenance problem. This project would rechassis the forestry pump and body. This vehicle was purchased new with grant funds.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$50,000
FY2022	\$0
Total Five-Year Cost	\$50,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD002)

Replace/Update Radio Equipment

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$165,000
Estimated Useful Life:	10 Years

**Description and Justification:**

This multi-year project would allow the department to upgrade all of our radio equipment to Motorola Digital-ready base, mobile, and portable equipment.

FY17: 60 mobile (portable) radios funded

FY19-FY20: Annual appropriation to address in-vehicle repeaters and other infrastructure-related improvements. These infrastructure improvements will be for fire, police and DPS.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$55,000
FY2020	\$55,000
FY2021	\$55,000
FY2022	\$0
Total Five-Year Cost	\$165,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD003)

Replacement Aerial Ladder Fire Truck

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,200,000
Estimated Useful Life:	15 years

**Description and Justification:**

The department's aerial ladder truck is twenty-one (21) years old and in need of replacement. We have spent \$14,000 in repairs so far this year. The National Fire Protection Agency (NFPA) standards recognize the useable life of an aerial device as twenty (20) years. Although the vehicle passed its annual inspection this year, several thousand dollars were spent on repairs and it will require extensive repairs in future years. It will take close to a year for delivery of a new ladder truck once the order is placed.

The City has applied for a Homeland Security grant, which would fund up to \$500,000 if awarded.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$1,200,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$1,200,000

Operating Budget Impact:	\$10,000
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD004)

Type III Ambulance

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$200,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The department is in need of an ambulance so that we may start our transporting, fire-based, BLS EMS service. This project will allow the department to run one Basic Life Support Ambulance for BLS level calls, eliminating the need for dual agency response to minor medical calls. This project allows the resulting revenue generated from the call to come back to the City. We will still retain Cataldo/Atlantic Ambulance service for our ALS runs and as a BLS backup.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$200,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$200,000

Operating Budget Impact:	\$2,500
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD005)

Replacement of Fire Station # 2

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$5,000,000
Estimated Useful Life:	50 Years

**Description and Justification:**

The District 2 fire station, built in the early 1970's, is undersized, overcrowded, and is in violation of current building and life safety codes. It is an unsafe, unsanitary and inappropriate place to house our personnel. It is imperative that the station remain in District 2 to insure appropriate response times and staffing. Renovation costs would be extensive and not address all the current needs, therefore a total replacement is requested.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$5,000,000
FY2022	\$0
Total Five-Year Cost	\$5,000,000

Operating Budget Impact:	\$25,000
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD006)

Architectural Study and Design for Fire Station

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$100,000
Estimated Useful Life:	0 Years

**Description and Justification:**

This project would allow the NFD to hire an architect/engineer to study the space needs of the fire department, and to draw up plans and specifications for the replacement of station 2 and the renovation of our headquarters station. This will allow us to add accurate numbers to the CIP for planning purposes.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD007)

Renovation of NFD Headquarters Station

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$3,000,000
Estimated Useful Life:	50 Years

**Description and Justification:**

This project would allow for a complete renovation and addition to the NFD Headquarters station on Greenleaf Avenue this would also allow for the expansion of the Emergency Operations Command Center to be located at this location. This building was built in 1978 and has had no upgrades. It does not meet current code, has no gender separation, and is not ADA compliant. The station lacks the required fire separation from the residence hall and the apparatus bay, nor does it meet current life safety code. The building is extremely inefficient, lacks any office or meeting space, and has no training/conference room.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$3,000,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$3,000,000

Operating Budget Impact:	\$30,000
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD008)

SCBA Replacement

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$50,000
Estimated Useful Life:	10 years

**Description and Justification:**

All of the department's Self-Contained Breathing Apparatus (SCBA) are approaching the end of their useful life, as determined by national standards, and must be replaced. Due to the life-sustaining purpose of this equipment, all units, bottles and breathing masks must be replaced simultaneously.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$50,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$50,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (FD009)

New Front Entryway / Rear Door for HQ

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$20,000
Estimated Useful Life:	25 Years

**Description and Justification:**

The front door assembly at HQ has serious decay and is not weather or rodent/insect resistant any longer. Currently there is no security at this entryway. This project would allow a double-door, foyer entry way with the ability to hold visitors inside but on the outside of a locked door until escorted through the building. The rear yard is reconfigured at HQ for recreation/living/storage area, an updated rear door configuration is needed.

Estimated Project Costs by Fiscal Year	
FY2018	\$20,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$20,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD001)

Garage Doors

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	20 Years

**Description and Justification:**

Replace 3 garage doors and automatic door openers. The garage doors and automatic openers for the police station are 21 years old and are in need of replacement. The 2 garage doors that are used daily are the doors labeled 1 and 2. These doors are where prisoners are transported in and out of the station. These 2 doors have been malfunctioning over the last year, and are very important to the security of the building.

Estimated Project Costs by Fiscal Year	
FY2018	\$25,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$25,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD002)

Facility Weatherproofing

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The police department was renovated in 1997, but the older section of the facility has bricks that need weatherproofing every 10 years, the last time this was done was 17 years ago.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$25,000
FY2022	\$0
Total Five-Year Cost	\$25,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD003)

Carpet Replacement

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$30,000
Estimated Useful Life:	20 Years

**Description and Justification:**

The carpet in the police station are currently 20 years old and showing significant wear. There is a lot of traffic in and out of the facility which operates 24 hours a day and 7 days a week.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$30,000
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD004)

Locker Replacement

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$30,000
Estimated Useful Life:	20 years

**Description and Justification:**

The existing lockers that the officers use to store their duty gear and weapons are desperately in need of repair they are currently 21 years old. The existing locker doors and locking mechanisms are failing and are irreparable. The officers store department issued firearms and Tasers in the lockers. It is required by state law as well as department policy and accreditation standards that all firearms and Tasers must be stored in a locked and secured location.

Estimated Project Costs by Fiscal Year	
FY2018	\$30,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD005)

Radar Units

Department:	Police
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$13,200
Estimated Useful Life:	20 Years

**Description and Justification:**

The radar units are part of the everyday equipment utilized by officers on the street in the performance of their duties. These units turn on at the beginning of the officers shift and are used throughout the shift. There are ten units in operation and have not been replaced in 10 years, each unit cost approximately \$2200. These units are calibrated every year by the state and must remain in compliance.

Will be able to purchase 6 new units

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$13,200
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$13,200

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PD006)

Records Room Renovation

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$30,000
Estimated Useful Life:	20 Years

**Description and Justification:**

We are in the process of renovating a room in the building that was originally designed to be a photo lab. This room has never been used for what it was intended for because of the change in technology and digital photography. We would like to make this area a designated area for a modern records filing and storage system. This system are a set of filing cabinets that are space savers, it is the newest system on the market. This will allow for easier access to files and help with the multiple public records requests we receive. It will also allow for records to be stored out of the basement storage area that is almost to capacity.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$30,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SU001)

HVAC Improvements - City Hall

Department:	Sustainability
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$650,000
Estimated Useful Life:	20 Years

**Description and Justification:**

City Hall is in need of major mechanical systems upgrades. The heating system/boiler is over 30 years old and maintenance is and has been costly and damaging to servers and offices over the last few years. There is no heat/ac or ventilation in the basement where 2 departments reside. There is no central air in the rest of the building requiring yearly window unit purchase and installation. Lastly the auditorium has no heat or AC therefore limiting the rental of that space. To review options, we received a grant to assess all opportunities. Five options were given with the best scenarios ranging between \$550-650K.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$650,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$650,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL001)

Fish Pier Embayment Dredging

Department:	Planning & Development
Category:	Miscellaneous
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$750,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The City's Municipal Fish Pier provides one of the few suitable places remaining for the local commercial fishing fleet to unload its catch. Fishing is an important legacy for Newburyport, and the Fish Pier has been underutilized for decades as it is too shallow for an effective tie-up facility, allowing vessel access only at high tide. Survey, sampling, testing, design, cost estimating and permitting was done in 2009 to dredge about 11,000 SF (2,200 CY of sediment and 450 CY of rock) to a depth of -10 to -11 MLW to provide full-tide access to the eastern face of the Fish Pier. The design plans must be reviewed and updated. The City must then obtain new/updated permits before construction (dredging) can begin. The city has applied for grant funding from the Seaport Advisory Council.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$50,000
FY2021	\$700,000
FY2022	\$0
Total Five-Year Cost	\$750,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL002)

Intermodal Structured Parking Facility

Department:	Planning & Development
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$13,416,372
Estimated Useful Life:	75 Years

**Description and Justification:**

This project is timely in that it will take advantage of \$6,500,000 in state and federal funds. This project has been designated as high priority by the Administration and time is of the essence. Creation of consolidated parking will allow the City to remove substantial surface parking from the central waterfront for park expansion.

Project costs have been provided by consulting project managers, engineers and architects. Debt service and operating costs (after federal and state funding) are to be funded by Paid Parking Receipts.

Estimated Project Costs by Fiscal Year	
FY2018	\$2,500,000
FY2019	\$10,916,372
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$13,416,372

Operating Budget Impact:	\$100,000
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL003)

Central Waterfront Bulkhead Phase II

Department:	Planning & Development
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$3,100,000
Estimated Useful Life:	25 Years

**Description and Justification:**

Phase I was completed in 2014 , and Phase II is necessary to replace/repair the eastern section of the corroding cellular steel bulkhead and associated steel pilings at the central waterfront. The bulkhead supports the boardwalk and the pilings that anchor the floats, all of which are used extensively by thousands of people every year. The 1977 bulkhead is at the end of its service life with holes opening up under water and weepholes enlarging above water, and the boardwalk will eventually be undermined if it is not repaired. The old steel piles have been patched but several have snapped. Plans and specifications have already been developed for Phase II but permitting for this phase must be updated. Work will likely need to be done in the winter to meet permitting requirements.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$100,000
FY2022	\$3,000,000
Total Five-Year Cost	\$3,100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL004)

Central Waterfront Rail Trail Extension/Park Expansion

Department:	Planning & Development
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$850,000
Estimated Useful Life:	100 Years

**Description and Justification:**

This project will provide a multi-use paved trail along the inland edge of an expanded central waterfront park, extending the raised "berm" adjacent to the boardwalk into a broad raised park area of grass, benches, and signage. The circulation network will provide a framework for an organic waterfront park expansion between pedestrian circulation along the boardwalk and bicycle circulation along the trail. Both the extension of Rail Trail bicycle access and the expansion of green waterfront parkland have been conceptualized in multiple plans, and this extent of work is one that most appear to agree upon. While the details and costs associated with an expanded waterfront park have yet to be determined, construction of the rail trail "spine" will address a major component of the initiative.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$850,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$850,000

Operating Budget Impact:	\$15,000
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL005)

Clipper City Rail Trail Phase III

Department:	Planning & Development
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$1,925,000
Estimated Useful Life:	100 Years

**Description and Justification:**

For nearly two decades, the City has been working towards the establishment of a multi-use pedestrian and bicyclist trail looping around the core of our community and connecting with the commuter rail station. The Route 1 Traffic Circle has long been a hazard to pedestrians and bicyclists and has effectively severed the connection between neighborhoods, businesses, services and amenities on either side. A pedestrian was tragically killed by a motorist here in November 2016. The construction of the Rail Trail segments on both sides as well as the residential transit-oriented-development at the commuter rail station is increasing the demand to reshape and improve the circulation in this significant Newburyport gateway area. This project will create a safe corridor for pedestrians and bicyclists along the Parker Street corridor, "close the loop" of the Rail Trail, and re-connect the neighborhoods on either side of the Traffic Circle.

Estimated Project Costs by Fiscal Year	
FY2018	\$75,000
FY2019	\$100,000
FY2020	\$1,750,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$1,925,000

Operating Budget Impact:	\$15,000
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PL006)

Permit Tracking Software

Department:	Planning & Development
Category:	Miscellaneous
Request Type (New/Prior Year):	New
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$100,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The Office of Planning & Development is working with the Planning Board, City Council, Zoning Advisory Committee and other city officials on a comprehensive update to the Newburyport Zoning Ordinance. Due to the complex layering of development permits required for various projects undertaken in this City, a central and integrated permit tracking software package would be helpful to various departments, including the Office of Planning & Development, Building Department, City Clerk's Office, Department of Public Services, and others. A software package capable of handling online application submissions would also be of use to various city boards, including but not limited to the Planning Board, Zoning Board of Appeals, Conservation Commission, Historical Commission and others. Electronic permit and applications tracking will increase efficiency and accuracy of the overall system, aid in permit and ordinance enforcement efforts, and make the permitting process more accessible and transparent, while reducing unnecessary paperwork related thereto.

Other funding source includes Building Department revolving funds.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK001)

Bartlet Mall Frog Pond Restoration

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$40,500
Estimated Useful Life:	100 Years

**Description and Justification:**

Frog Pond and the Bartlet Mall play a major role in hosting annual festivals and other cultural events and are listed in the National Register of Historic Places. The pond currently exhibits excessive algal growth (eutrophication) leading to low water clarity, low dissolved oxygen and generally poor aesthetic quality. It is potentially hazardous to humans and pets. To improve the water quality of Frog Pond and the aesthetic appeal of the area, the City has undertaken a restoration of the pond and has recently learned of an innovative technology that has demonstrated the ability to clean the water for much lower cost than previously thought possible.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$40,500
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$40,500

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK002)

Cushing Park Improvement Project

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$251,820
Estimated Useful Life:	25 Years

**Description and Justification:**

What was once a lush, green open space known as Kent Street Common and dedicated as Cushing Park in the 1890s was transferred in the 1950s to serve as a parking lot for a nearby industry. The space has continued to be used as a municipal parking lot, primarily for parking during snow emergencies. The Parks Commission plans to return a more park-like feel to the space while retaining its functionality as winter parking by adding a green buffer with a rain garden, renovating the landscape border along Ken Street, and adding moveable park amenities, which can create an outdoor gathering space during the warm season, and be removed in winter to allow for parking. We eventually plan to repave the remaining asphalt.

Estimated Project Costs by Fiscal Year	
FY2018	\$19,720
FY2019	\$0
FY2020	\$20,000
FY2021	\$212,100
FY2022	\$0
Total Five-Year Cost	\$251,820

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK003)

Joppa Park Improvement Project

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$85,000
Estimated Useful Life:	30 Years

**Description and Justification:**

Improving Joppa Park is a multi-year project to improve a high visibility, well used waterfront park. Many improvements have been made including adding a perennial hedge to protect the park, addition of eight new benches, renovation of the central garden and lawn, new water bubbler, new irrigation for plantings and lawn. The following additional improvements will make the park safe and attractive: addition of four historic interpretive panels, renovation of the boat ramp and parking area, replacement of the badly damaged and dangerous asphalt walkway along the sea wall with sand colored concrete.

Estimated Project Costs by Fiscal Year	
FY2018	\$16,000
FY2019	\$69,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$85,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK004)

Inn Street Site Amenities

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$30,000
Estimated Useful Life:	30 Years

**Description and Justification:**

Renovations to Inn Street and the larger downtown area completed in the 1970s have contributed significantly to the appearance of our most prized public spaces, and have helped to protect the historic integrity of the area, in part through increased tourism and pedestrian visits. While Inn Street remains a bustling pedestrian mall, the fountain has become inoperable and site amenities and landscaping need improvement. Site amenities will include high-quality/low-height landscape fencing around trees and planting beds to protect plantings and lighting fixtures, install moveable site furniture and add trees and other plantings.

Estimated Project Costs by Fiscal Year	
FY2018	\$10,000
FY2019	\$20,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK005)

Field Improvement - Fuller Complex

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$243,227
Estimated Useful Life:	30 Years

**Description and Justification:**

The aging Bradley Fuller Athletic Complex is badly in need of repairs to the track and drainage improvements to the north portion of the facility. Phase one of the project renovated and expanded the 400m track & field facility to accommodate state track meet standards. A new multi-use synthetic turf field will be installed inside track to address the city's need to increase field capacity. Expanded parking, walkways, spectator seating and concessions amenities will contribute to the facility's potential to host a state meet and address current drop-off and parking safety issues.

Completed: Track, infield, track and field events area, goal post, netting, site landscaping, Low Street fencing, storage sheds, drainage, synthetic turf ready.

Remaining: FY2018: Balance of site fencing, grandstand, press box, scoreboard, parking
FY2019: Synthetic turf

Estimated Project Costs by Fiscal Year	
FY2018	\$43,227
FY2019	\$200,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$243,227

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK006)

Tractor

Department:	Parks
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$47,322
Estimated Useful Life:	15 Years



Description and Justification:

Existing Parks Dept. John Deere tractor is too old and too small to adequately perform the following necessary tasks:

1. Snow & ice management of existing and new portion of Clipper City Rail Trail, and all parks walkways and parking lots as needed
2. Annual slice seeding of athletic fields and lawns
3. Regular aeration of athletic fields and lawns
4. Mowing large fields
5. Excavation, construction support
6. Tree planting support
7. Unloading & loading site furniture deliveries, playground safety surfacing, other hardscaping and landscaping materials

Estimated Project Costs by Fiscal Year	
FY2018	\$47,322
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$47,322

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK007)

Mini-excavator Purchase

Department:	Parks
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$65,000
Estimated Useful Life:	15 years

**Description and Justification:**

- Mini-excavator, 7,000 pound with bucket plow bull-dozer blade
- Labor saving equipment for tasks such as digging stumps, building rock walls, pulling posts & fencing, digging irrigation pits, grading, removal of asphalt, hardscape work, moving logs
- Allow us to do costly capital projects in-house
- Saves on rental costs of \$375/day (\$1,500/week)

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$65,000
FY2022	\$0
Total Five-Year Cost	\$65,000

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK008)

Ventrak Slope Mower

Department:	Parks
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$28,000
Estimated Useful Life:	15 years



Description and Justification:

- Allows us to mow slopes safely that we currently cannot mow safely, or at all. Doing the slopes by hand with a push mower and rope or with weed trimmer is labor-intensive, so this equipment also represents labor cost savings
 - Bartlet Mall
 - March's Hill
 - Behind Eaton Baseball Field
- Can be used instead of the other mower we planned to buy

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$28,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$28,000

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK009)

Purchase of Used Pickup Truck

Department:	Parks
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	7 years

**Description and Justification:**

Purchasing a pickup truck will allow the city to reduce the number of miles driven by employees in their personal vehicles in service for the parks and thereby reduce mileage reimbursement costs. The truck will allow staff to carry more landscaping materials, thereby reducing trips to and from job site to compost or headquarters.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$25,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$25,000

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK010)

Fuller North Field Irrigation System

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$30,000
Estimated Useful Life:	30 Years



Description and Justification:

- Lack of irrigation on Fuller North Field negatively impacts the quality of turf, making the playing surface too compacted and an unsafe concussion hazard
- A lot of the infrastructure is already there, which will help reduce overall cost
- Can be accomplished in house over time for a lower cost given adequate manpower

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$30,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (PK011)

Worksite Utility Vehicle

Department:	Parks
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$27,620
Estimated Useful Life:	15 Years

**Description and Justification:**

- Replaces existing, aging ATV
- will move plant materials, compost and wood chips to improve the health and vigor of plants by getting directly to all of the landscape plants where larger equipment cannot travel due to restrictions because of width of trail or slope/hill
- plow the ice on Bartlet Mall Frog Pond for skating
- plow snow on the rail trail and for ice management, using the RTV mounted sand/salting unit which will control overuse that causes possible damage to plants/turf.
- We will also use the vehicle as a water truck/tank (accessory) to water the valuable landscape plants; and
- This vehicle enables us to have faster reaction to unsafe conditions by having a smaller piece of equipment on the trail that large trucks cannot attend to due to width restrictions and turning radii

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$27,620
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$27,620

Operating Budget Impact:	\$500
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (CA001)

Purchase of 14 Passenger Van

Department:	Council on Aging
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$60,000
Estimated Useful Life:	15 Years

**Description and Justification:**

This van will replace a 2008 Ford E450; the oldest of the three Council on Aging vans. The van has over 100,000 miles and, due to the frequency of pick-ups and drop-offs, the engine is worn and the transmission is failing. The DPS mechanics note that the van requires over 5 quarts of oil each month with no leaks present. The recommended replacement is a Ford E350 Eldorado Aerotech van to match the other two vans in the fleet. The van can hold up to 12 ambulatory passengers plus two wheelchairs or 14 ambulatory passengers.

Other Available Funding Sources: Elder Affairs grant, William Horton trust fund and Friends of COA.

Estimated Project Costs by Fiscal Year	
FY2018	\$60,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$60,000

Operating Budget Impact:	-\$1,000
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (LI001)

Carpet Replacement

Department:	Library
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2019-FY2023 Project Cost:	\$46,490
Estimated Useful Life:	20 Years

**Description and Justification:**

Original carpets installed during the 2001 building project are now 17 years old. We have systematically replaced worn carpets over the last eight years with Capital Improvement funds, state aid and grant funding. Funding for the remaining carpet replacements (Children's Room, Archival Center and 2nd/3rd floor stack areas) has been sought since FY14-15. This two-year project would complete these carpet replacements. Year 1 - Children's Room and Archival Center ; Year 2 - 2nd/3rd floor stacks.

Estimated Project Costs by Fiscal Year	
FY2018	\$18,054
FY2019	\$28,436
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$46,490

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (YS001)

Recreation Center

Department:	Youth Services
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	1 - Urgent/Very High
FY2019-FY2023 Project Cost:	\$2,000,000
Estimated Useful Life:	50 Years

**Description and Justification:**

In order for the city to dispose of the former Brown School, the City must find a new permanent location for Newburyport Youth Services that includes a small office, ample recreational space and onsite parking. Proximity to the Newburyport Public Schools is important in the site selection. The estimated cost below is a placeholder only.

Other funding source includes proceeds from the sale of the former Brown School and Kelley School.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$2,000,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$2,000,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC001)

High School Science Wing Addition & Renovation

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2018-FY2022 Project Cost:	\$11,000,000
Estimated Useful Life:	50 Years

**Description and Justification:**

The current science labs were designed in the late 1990s and no longer align with modern STEM teaching methodologies. Additionally, space restrictions limit the class offerings that can be made available to students. In many ways the science/STEM classrooms at the lower grade levels are more advanced than what is available at the high school. This project would construct a two-story addition over the gymnasium, and renovate the existing science classrooms and lab spaces. A Statement of Interest will be submitted to the Massachusetts School Building Authority (MSBA) requesting participation in their Core Program which would result in an approximate 50% reimbursement from the state for this project.

Preliminary costs are calculated as follows: 16,000 sq. ft. of new space @ \$500/sq. ft. (\$8,000,000), 10,000 sq. ft. of renovated space @ \$300/sq. ft. (\$3,000,000) = \$11,000,000. For the MSBA proposal, this would likely be combined with SC008 Roof Replacement (\$900,000) and SC016 Parking Lot Repairs (\$100,000) for a total cost of \$12,000,000.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$11,000,000
Total Five-Year Cost	\$11,000,000

Operating Budget Impact:	\$10,000
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC002)

Nock-Parking Repaving & Lighting Upgrades

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2018-FY2022 Project Cost:	\$475,000
Estimated Useful Life:	25 Years

**Description and Justification:**

Parking lot is in extremely poor condition and needs a total replacement. Potholes, excessive cracking and poor drainage pose a safety hazard to drivers and pedestrians. Lighting is also poor in most areas of the parking lot and needs to be improved for safety and security reasons.

Cost estimate prepared in June 2017 by DPS in consultation with their paving contractor and the City Electrician.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$475,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$475,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC003)

Nock-Walkway/Sidewalk Repairs and Repaving

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$75,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The walkways, including the fire road around the back of the school are in poor condition in some areas. This project would prioritize the areas in most urgent need of repair and resurfacing, and then move on to other areas until all walkways are in good condition and meet the requirements of the Americans with Disabilities Act.

Costs are budget numbers. Each year's project would be designed to fit within the available budget for that year.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$15,000
FY2019	\$15,000
FY2020	\$15,000
FY2021	\$15,000
FY2022	\$15,000
Total Five-Year Cost	\$75,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC004)

Nock-Tennis Court Renovation

Department:	Schools
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$47,950
Estimated Useful Life:	25 Years

**Description and Justification:**

The surface of the tennis courts is in poor condition and needs to be replaced.

Estimated cost based on 12,650 square feet of paving at \$3.00/square foot of paving plus a \$10,000 allowance for fencing and net/post repairs or replacement.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$47,950
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$47,950

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC005)

Nock-Gym & Auditorium Roof Replacement

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2018-FY2022 Project Cost:	\$662,295
Estimated Useful Life:	25 Years

**Description and Justification:**

The gym and auditorium roofs are the only sections that have not been replaced during recent projects. They are currently in good condition, but are over 20 years old, which is nearing the end of their life expectancy. This project is included on this plan in order to be forward thinking so that the city can be prepared for this expense when the time comes to replace these roofs.

Cost estimate is based on \$16/sq. ft. It also provides allowances for General Conditions, Overhead & Profit, Bonding Fees, Design Fees, Escalation and a Contingency. It also provides an allowance to remove and reinstall the solar panels on the roof. This project would likely qualify for reimbursement under the MSBA's accelerated repair program.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$662,295
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$662,295

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC006)

Nock-Elevator Controls Modernization

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2018-FY2022 Project Cost:	\$303,710
Estimated Useful Life:	50 Years

**Description and Justification:**

The controls for the elevator are original to the 1972 construction of the elevator. They do not meet current codes and cannot be tied into the fire alarm system in the way that a modern elevator would. After a recent inspection, the state elevator inspector commented that the controller and hydraulic oil tank would need to be replaced in the near future due to age. Further discussions with an elevator professional brought up the point that replacement of the piston should be considered as well. This budget cost below is to replace the controller and hydraulic tank, call buttons and other hardware and the piston. It also includes an allowance for engineering. Funded from Free Cash and surplus funds from Bresnahan School Building Project.

This project has been funded and is underway.

Estimated Project Costs by Fiscal Year	
FY2018	\$303,710
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$303,710

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC007)

Nock-Furniture Replacement

Department:	Schools
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$75,000
Estimated Useful Life:	20 Years

**Description and Justification:**

Much of the office and classroom furniture is old and or "hand me down" furniture in need of replacement. This project would replace the furniture that was not replaced during the renovation project over a series of years.

Budget cost based on expenditures for furniture replacements during the renovation project. \$25,000 would outfit six classrooms.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$25,000
FY2019	\$25,000
FY2020	\$25,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$75,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC008)

High School Roof Replacement

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2018-FY2022 Project Cost:	\$900,000
Estimated Useful Life:	25 Years

**Description and Justification:**

This project aims to replace five section of flat roofing on the "Building-A" portion of Newburyport High School. These roofs cover the library, auditorium, east and west classroom areas, and the hip-roof section over the main portion of the building. The current roof is 20 years old and leaks in several areas causing damage to ceilings and other interior areas. Last replaced circa 1995, they were not replaced during the high school renovation and addition project in 1999 to 2002 because they were still new at that point, but several pieces of mechanical equipment were removed, and the roof received a lot of abuse from the ongoing construction work. A portion (45-50%) of this project may be reimbursable through the MSBA. A Statement of Interest was submitted in February 2017.

This project would be combined with SC001 if that were to move forward due to MSBA limit of one SOI per school.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$900,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$900,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC009)

High School Auditorium Plaster Repairs

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2018-FY2022 Project Cost:	\$100,000
Estimated Useful Life:	30 Years

**Description and Justification:**

Plaster throughout the auditorium has sustained damage from a number of sources including roof and window leaks. The window leaks have been repaired, but this project should be staged after the roof issues have been addressed. Damage to the plaster has occurred on the ceiling and walls in both the main section of the auditorium and the lobby area.

This project will be moved up the priority list after the roof over this section of the building is replaced.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$100,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC010)

High School Exterior Woodwork Project

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2018-FY2022 Project Cost:	\$130,268
Estimated Useful Life:	25 Years

**Description and Justification:**

This ongoing project is rehabilitating the exterior woodwork on the 1937 portion of the high school. Phases 1 & 2 have been completed on the north-facing front side of the school. Phase 3 looks to restore the cupola and subsequent phases continue to work around the sides and back of the building. An application for a 2017 CPA grant resulted in a grant of \$125,000 toward this phase of the project. With an additional \$14,000 remaining from the Phase 2 grant a total of \$55,268 is needed to reach the \$194,268 estimated cost of Phase 3.

Portions of future phases have also been completed, reducing the remaining scope of work for this project.

Estimated Project Costs by Fiscal Year	
FY2018	\$55,268
FY2019	\$75,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$130,268

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC011)

High School Boiler #2 Interior Brickwork

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2018-FY2022 Project Cost:	\$14,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The brick lining the inside of Boiler #2 is leaning away from the sidewalls of the boiler and needs to be replaced. If the brick gets to the point that it falls, the boiler will be unusable eliminating the redundancy in the heating system at the high school. This in turn could result in a closure of the school if an issue arose with Boiler #1 at the same time.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$14,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$14,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

PROJECT DETAIL SHEET (SC012)

High School Masonry Repairs

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$100,000
Estimated Useful Life:	20 Years

**Description and Justification:**

In the summer of 2012 we made repairs to the masonry at the front of the building to prevent the infiltration of water into the brick walls on the front terrace and the formation of efflorescence on that brick. The Stadium project, completed in 2015, addressed similar issues along the south facade of the building that was allowing water to infiltrate into the locker room and gym areas on the ground floor. In the fall of 2017 the brick planter on the East Terrace was removed and that area will be sealed and filled with concrete in the spring of 2018 to stop water infiltration into the mechanical space below. The next phase would be to remove the brick planter on the West Terrace before it begins to leak into the underlying storage and mechanical rooms. The remaining work after that would involve concrete and brick repairs around the stairways and facades of both the East & West Terraces.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$50,000
FY2019	\$50,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC013)

High School-Concrete/Sidewalk Repairs

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2018-FY2022 Project Cost:	\$60,000
Estimated Useful Life:	15 Years

**Description and Justification:**

Concrete sidewalks have deteriorated in many areas and need to be repaired in order to provide safe walking surfaces and to meet ADA requirements. Costs are budget number. Areas would be prioritized and projects would be planned to fit within the available budget each year.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$15,000
FY2019	\$15,000
FY2020	\$15,000
FY2021	\$15,000
FY2022	\$0
Total Five-Year Cost	\$60,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

PROJECT DETAIL SHEET (SC014)

High School-Front Walkway Extension

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2018-FY2022 Project Cost:	\$15,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The front walkway from the main entrance toward High Street ends abruptly. It has become obvious over the years due to the wear pattern that has developed in the grass that the walkway should be continued around the corner of the building to meet up with the sidewalk in that location. This will provide a safer more even path of travel than what is currently there. Cost includes installation of a railing to meet ADA requirements.

Cost based on a quote from a contractor (Caram & Sons) and other similar work performed at the high school.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$15,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$15,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

PROJECT DETAIL SHEET (SC015)

High School Perimeter Stone Wall Repairs

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$75,000
Estimated Useful Life:	25 Years

**Description and Justification:**

The stone wall that surrounds the high school property along High Street, Toppan's Lane and between the Stadium and baseball field has had several stones fall out and needs to be repointed. Some sections have been repaired and repointed over the past 15 years, but the wall as a whole needs a comprehensive restoration.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$75,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$75,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
X	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC016)

High School Additional Parking Spaces and Curbing

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$100,000
Estimated Useful Life:	25 Years

**Description and Justification:**

Due to a lack of official parking spaces at the high school, many unofficial spaces along the edge of the driveway (on the grass) are currently being used by staff. This has caused the edges of the driveway to crack and crumble under the constant motion of vehicles. This project would pave those areas and provide curbing to protect the new edge of the driveway/parking area.

This project would be combined with SC001 if that were to move forward since the parking lot in general will likely see excessive wear and tear when subjected to a construction project of that size.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$100,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC017)

High School Furniture Replacement

Department:	Schools
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2018-FY2022 Project Cost:	\$40,000
Estimated Useful Life:	15 Years

**Description and Justification:**

Most of the furniture in the high school was purchased during the renovation/addition project in 2002. By FY2019 this furniture will be 17 years old. Some furniture is now showing signs of wearing out and other has been damaged or broken beyond repair.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$20,000
FY2020	\$20,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$40,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC018)

High School Carpet Replacement

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2018-FY2022 Project Cost:	\$50,000
Estimated Useful Life:	20 Years

**Description and Justification:**

Carpets throughout the high school are all from the addition/renovation in 2002. Many areas are now showing signs of wear and tear. Targeting FY2020 to begin an annual replacement program is a prudent measure to take.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$25,000
FY2021	\$25,000
FY2022	\$0
Total Five-Year Cost	\$50,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SC019)

High School Ground Floor Vestibules

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2018-FY2022 Project Cost:	\$30,000
Estimated Useful Life:	30 Years

**Description and Justification:**

The corridor on the ground floor of the high school has exterior entrances at both the east and west ends that are two of the main entrances used to get in and out of the building by staff, students and visitors coming to events in the gym. During the winter an enormous amount of cold air is let into the building at these two entrances. Creating vestibules at both of these entrances will cut back on that situation, saving energy and keeping the interior of the building in that area more comfortable in both winter and summer.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$30,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$30,000

Operating Budget Impact:	Reduces Energy Consumption
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

PROJECT DETAIL SHEET (SC020)

High School Technology

Department:	Schools
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2018-FY2022 Project Cost:	\$170,000
Estimated Useful Life:	30 Years

**Description and Justification:**

The computers at the high school are seven years old and need to be replaced. The \$170,000 estimated is what it would cost to replace the existing desktops at the high school. However, the district is also exploring the option of implementing a one-to-one computing program, which would entail a lease-to-purchase program for a tablet/laptop for every student.

Other funding source includes surplus funds from Bresnahan School Building Project.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$170,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$170,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
X	Other*

PROJECT DETAIL SHEET (HW001)

Parker Street/Scotland Road Culvert Replacement

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$900,000
Estimated Useful Life:	75 years



Photo by Benchmark Survey, October 7, 2010.

Description and Justification:

The existing twin corrugated metal arch culvert is structurally deficient and in need of replacement. In addition, the existing culvert is restricting flow and causing upstream flooding. A larger culvert will help alleviate this. \$200k for design, \$700k for construction.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$200,000
FY2021	\$700,000
FY2022	\$0
Total Five-Year Cost	\$900,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW002)

Brown's Wharf Culvert Replacement Phase II

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$640,000
Estimated Useful Life:	100 years

**Description and Justification:**

Replacement of existing brick drainage culvert that runs beneath the Brown's Wharf Building. The existing culvert is structurally deficient and a collapse will undermine the building. \$90k for design, \$550k for construction

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$90,000
FY2021	\$550,000
FY2022	\$0
Total Five-Year Cost	\$640,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW003)

Drainage Improvement Projects Phase 1

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$435,000
Estimated Useful Life:	100 years

**Description and Justification:**

APPROVED BOND REQUEST. Repair and / or install stormwater drainage infrastructure at multiple locations around the city to relieve flooding problems and eliminate potential public and private property damage caused by this flooding. The following streets are included in this work: Tilton Street, Malcolm Hoyt Road, East Boylston Street, Market Square/Ferry Wharf Drainage Bypass Project, Noble Street @ Coombs Circle, Coltin Drive, and High Street Bridge at the Rail Trail. (Phase 1 has been Bonded)

Estimated Project Costs by Fiscal Year	
FY2018	\$200,000
FY2019	\$235,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$435,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW004)

Purchase of 6 Wheel Dump Truck with Plow

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$405,000
Estimated Useful Life:	15 Years

**Description and Justification:**

These two trucks will replace one 1999 Mack dump-truck and one 1969 FW10 (four-wheel drive) dump truck with wing plows. These are front line trucks used to haul materials to and from job sites and for snow plowing.

Funding is through three-year lease to purchase.

Estimated Project Costs by Fiscal Year	
FY2018	\$135,000
FY2019	\$135,000
FY2020	\$135,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$405,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW005)

Purchase of Trackless Snow Blower

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$128,000
Estimated Useful Life:	12 Years

**Description and Justification:**

This piece of equipment would be used to clear snow from sidewalks and streets.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$128,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$128,000

Operating Budget Impact:	\$1,000
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW006)

Purchase 1 1/2 Ton Diesel Dump Truck w/plow

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$85,000
Estimated Useful Life:	10 Years

**Description and Justification:**

This truck will replace truck #12 which is a 2001 Chevy C3500 dump truck. This truck is in very poor condition and has been taken off the roadway.

During FY18, the City funded the replacement of truck #15 which included plow and sander.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$85,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$85,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW007)

Purchase 3/4 Gas Pick-up Truck with Plow

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2018-FY2022 Project Cost:	\$33,000
Estimated Useful Life:	10 Years

**Description and Justification:**

This F150 4x4 pickup truck will replace a 2001 Ford F150 pickup truck (#14) assigned to Facilities Division which has exceeded its life expectancy.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$33,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$33,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW008)

Stonewall at Highland Cemetery - Repair

Department:	DPS - Highway
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$40,000
Estimated Useful Life:	100 Years

**Description and Justification:**

This wall is in need of significant masonry repair and replacement work and replacement of 100 feet of the most significantly deteriorated section of the wall.

Transfer of funds will be requested from Cemetery Receipts.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$40,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$40,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW009)

Roadway Paving Improvement

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$4,687,695
Estimated Useful Life:	30 Years

**Description and Justification:**

We currently receive over \$500,000 per year for roadway and sidewalk construction citywide from Chapter 90 funding. These limited funds require the annual prioritization of roads in the greatest need of repair as we continue to work to upgrade and maintain our network of roads throughout the City.

Estimated Project Costs by Fiscal Year	
FY2018	\$1,217,539
FY2019	\$1,017,539
FY2020	\$817,539
FY2021	\$817,539
FY2022	\$817,539
Total Five-Year Cost	\$4,687,695

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW010)

Sidewalk Replacement/New Construction Program

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,500,000
Estimated Useful Life:	30 Years

**Description and Justification:**

The City dedicates a minimum of 50% of annual meals tax receipts to replace and reconstruct sidewalks city-wide. Trust fund(s) are also available for sidewalk replacement, subject to approval by the City's Trust Fund Committee.

Estimated Project Costs by Fiscal Year	
FY2018	\$300,000
FY2019	\$300,000
FY2020	\$300,000
FY2021	\$300,000
FY2022	\$300,000
Total Five-Year Cost	\$1,500,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW011)

Purchase of Tree Truck / Bucket Truck

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$200,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The current Tree Truck is a 1999 international that requires extensive repairs and certifications cost each year due to its age. Until replaced, annual repairs are needed in order meet MassDOT certification requirements.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$200,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$200,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW012)

Roof Replacements - DPS / Library / Fire

Department:	DPS - Highway
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$1,000,000
Estimated Useful Life:	25 Years

**Description and Justification:**

The current **DPS building** roof is original to the building (29 years) and is failing. Over the past 29 years sealing and caulking repairs have been completed as needed. The roof needs to be replaced. The **Greenleaf Fire Headquarters** roof was replaced in 1999 but the roof shingles have deteriorated and are in need of replacement. The **Public Library** roof is also in need of repairs consisting of replacing the modified bitumen membrane roofing and slate roof shingle repairs.

Cost including project management and engineering follow:

DPS Building: \$662,559.00

Greenleaf Fire Headquarters: \$114,218.00

Public Library: \$223,223.00

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$1,000,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$1,000,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW013)

Downtown Water/Sewer/Drain Utility Upgrades

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$300,000
Estimated Useful Life:	75 years

**Description and Justification:**

Replacement of aging water, sewer, and drainage systems in State Street, Market Square, and sections of Merrimac and Water Streets. These utilities are failing and have caused damage to abutting property owners. In most areas these utilities are over 100 years old. Failures to the water and sewer systems could be devastating because they are the main trunk lines for our systems. \$300k for Survey and design, construction costs TBD based on final design. Continue to find short-term low cost fixes to relieve flooding while working on master plan that includes design of a replacement drainage system that will incorporated with the sewer and water replacement master plan.

Costs to be shared by the General Fund, Water Enterprise Fund and Sewer Enterprise Fund.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$300,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$300,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW014)

Phillips Drive Roadwork and Drainage

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$5,350,000
Estimated Useful Life:	25 Years

**Description and Justification:**

The Phillips Drive neighborhood, which includes Phillips Drive, Drew Street, Sullivan Drive, and Ryan Road, has experienced higher-than-normal flooding events over the past decade. The 1.2 miles of roadway and drainage systems have not been improved upon since they were built decades ago and are in poor shape. The drainage systems are insufficient to handle most storm events, the roads do not have curbing to control runoff, and there are no surface bypass systems, all of which has caused flooding of properties and buildings.

FY19 budget includes spot repairs, field survey and design plans. Subsequent years would be construction.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$350,000
FY2020	\$2,500,000
FY2021	\$2,500,000
FY2022	\$0
Total Five-Year Cost	\$5,350,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (HW015)

Plummer Spring Bridge Replacement

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	New
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$2,600,000
Estimated Useful Life:	75 Years

**Description and Justification:**

Plummer Spring Bridge supports the road that separates the Upper and Lower Artichoke Reservoirs and sits on the town line with West Newbury. The granite block retaining walls are collapsing and the approaches have settled dramatically. 2016 and 2017 MDOT inspection reports classify the bridge as being severely deficient and that repairs/replacement be made as soon as possible. Until this is done the bridge will be closed.

In 2017 the City applied for a MassDOT Small Bridge Grant, which is capped at \$500k. We do not anticipate being awarded any funds this year. FY19 budget request is for survey and design, subsequent years are for construction.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$100,000
FY2020	\$2,500,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$2,600,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
X	General Fund (Debt)
X	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
X	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW001)

Turkey Hill Sewer Main Replacement

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,000,000
Estimated Useful Life:	100 Years

**Description and Justification:**

Turkey Hill sewer main is 3,000 LF of aging Asbestos 15" line in need of replacement with PVC.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$1,000,000
Total Five-Year Cost	\$1,000,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
X	Enterprise Fund (Debt)
	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW002)

CCTV and Cleaning Sewer Downtown

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$100,000
Estimated Useful Life:	1 Years

**Description and Justification:**

The downtown sewer was cleaned in the early 1990's to reduce the amount of debris flowing through the downtown pipes. With the amount of flow generated in the downtown area, CCTV and cleaning is a priority.

An evaluation was performed and a report was generated on December 8, 2015 regarding the condition of the downtown sewer. The report found one major issue in three different locations. The issue is called bottlenecks. For example, a 42" diameter pipe that reduces into a 38" pipe and then back to 42" pipe, creating a bottleneck. CCTV work will inspect the condition of the existing pipe. The area of proposed work is the Route 1 bridge to the WWTF.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$100,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW003)

Sewer and Manhole Replacement Project

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$300,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The six-inch clay sewer line on the following streets will be replaced with 8" PVC:
 Barton Street - 700LF; Barton Court - 100LF; Alter Ct - 100LF 6" clay
 Dawes St - 700LF; Columbus - 200LF; Willow - 500LF; Warren - 700LF

A transfer request of \$250,000 from I/Inflow Revolving Account was approved in April 2017. The Dawes Street clay sewer line was replaced during 2017. Barton Court and Alter Court also both have negative pitch causing sewer issues.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$300,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$300,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW004)

New Crane Truck

Department:	DPS - Sewer
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$75,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The current 2008 Crane truck is used daily to pull pumps and other mechanical equipment when needed. The current truck has reached its life expectancy. Crane needs replacement due to wear.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$75,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$75,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW005)

Bobcat Loader

Department:	DPS - Sewer
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$50,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The New Bobcat would replace aging 1996 Bobcat.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$50,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$50,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW006)

Purchase 1 1/2 Ton Diesel Dump Truck w/plow

Department:	DPS - Sewer
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$60,000
Estimated Useful Life:	10 Years

**Description and Justification:**

This truck will replace truck #84 which is a 2006 Ford F550. This truck is in very poor condition and may be taken off roadway shortly. This vehicle is used by the Sewer Division daily for moving equipment, tools, and plowing.

Estimated Project Costs by Fiscal Year	
FY2018	\$60,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$60,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW007)

Purchase of Ten Wheel Dump Truck

Department:	DPS - Sewer
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$200,000
Estimated Useful Life:	15 Years

**Description and Justification:**

This piece of equipment is necessary for the Sewer Division to continue to haul sludge from the Wastewater Treatment Facility. This will replace an existing piece of equipment from 2004. The current vehicle has exceeded its normal life due to the environment and the material being transported.

Estimated Project Costs by Fiscal Year	
FY2018	\$200,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$200,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (SW008)

WWTF and Sewer System Resiliency Plan

Department:	DPS - Sewer
Category:	Miscellaneous
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$75,000
Estimated Useful Life:	25 Years



Image courtesy of Flood Control International, Inc.

Description and Justification:

The Waste Water Treatment Facility and many of the city's sewer pumping stations are vulnerable to flooding, storm surge, and rising seas. Preparations must be made to protect the facility from flood damage especially in light of climate change impacts which bring more intense storms.

Phases I and II would be the Resiliency Plan and Feasibility Study and Design phases, respectively, both proposed for FY19. Phase III would be construction phases proposed for FY2020.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$75,000
FY2020	TBD
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$75,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA001)

Water Main Replacement

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,625,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The Water Division continues with its goal of making improvements to the aging water distribution infrastructure. In order to achieve this goal, the Division has developed a schedule of planned distribution replacements. In an effort to minimize the effect on the annual operating budget, funds are designated each year into capital Water Main Replacement fund. Actual streets selected may change due to roadway reconstruction.

Construction Season 2018: Spring Lane, test pits & exploratory - \$20,000; Toppans Lane, 2700 LF of 8" DI pipe - \$300,000

Construction Season 2019: Russia Street, 500LF of 8" DI - \$100,000; Willow Ave, 500LF of 8" DI pipe - \$100,000

Construction Season 2020: Columbus Avenue, 2700 LF of 8" DI pipe - \$225,000

Construction Season 2021: Arlington St, 1000 LF of 8" DI - \$225,000

Construction Season 2022: Monroe St, 1800LF of 8" DI, est. cost \$250,000

Estimated Project Costs by Fiscal Year	
FY2018	\$325,000
FY2019	\$325,000
FY2020	\$325,000
FY2021	\$325,000
FY2022	\$325,000
Total Five-Year Cost	\$1,625,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA002)

Purchase of Six Wheel Dump Truck

Department:	DPS - Water
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$175,000
Estimated Useful Life:	15 Years

**Description and Justification:**

This is a vital piece of equipment that is necessary for the Water Division to continue its water main replacement program, emergencies and moving of equipment. The proposed FY2019 Water Division Operating Budget will include \$30,000 to replace the dump body along with necessary frame work. This will allow the purchase of a new vehicle to be postponed until FY2022.

This is the only truck in DPS that has the capacity to tow the excavator, which is a critical piece of equipment needed for both emergency and replacement operations.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$175,000
Total Five-Year Cost	\$175,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA003)

Route One Water Main Project

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$350,000
Estimated Useful Life:	100 Years

**Description and Justification:**

In order to maintain water quality and improve flow in the RT.1/traffic circle area, the need to connect the water mains on either side of the traffic circle are required. In order to accomplish this, trench work across RT. 1 will be required to tie-in the two mains.

This will increase flow and result in better water quality in the area by looping the water mains.

Estimated Project Costs by Fiscal Year	
FY2018	\$350,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$350,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA004)

Meter Replacement Project (Water/Sewer)

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$900,000
Estimated Useful Life:	10 Years

**Description and Justification:**

This project will replace all water meters throughout the City of Newburyport and the Town of Newbury. The average meter's useful life span is approximately twelve years and the last city-wide meter change out was 2008. As meters age, their ability to supply accurate readings decrease which results in both decrease in revenue and inaccurate consumption data. New technology will also provide better tracking of water use by both the City and customers.

In an effort to minimize the effect on the annual operating budget, the Water & Sewer Commission recommends an annual appropriation into this capital project account from Water and Sewer Enterprise Fund Retained Earnings.

Estimated Project Costs by Fiscal Year	
FY2018	\$100,000
FY2019	\$200,000
FY2020	\$200,000
FY2021	\$200,000
FY2022	\$200,000
Total Five-Year Cost	\$900,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA005)

Lower Artichoke Reservoir Dam Improvement

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$160,000
Estimated Useful Life:	75 Years

**Description and Justification:**

Dam inspections are due in 2018; evaluate, define deficiencies, recommend repairs. Include recommendations on resiliency plan for dams.

Repairs are necessary due to recent spalling of concrete at the top of the dam allowing water to pass through. In addition, the Mother's Day Storm of 2006 caused the Merrimack River to reach the top of the reservoir's dam and almost contaminated our public water supply with pollutants and saltwater. Improvements to the dam are needed to protect our water supply.

Estimated Project Costs by Fiscal Year	
FY2018	\$80,000
FY2019	\$40,000
FY2020	\$40,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$160,000

Operating Budget Impact:	\$0
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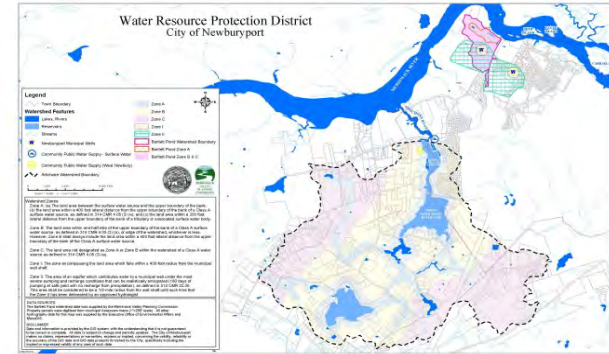
Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA006)

Public Water Supply Protection

Department:	DPS - Water
Category:	Miscellaneous
Request Type (New/Prior Year):	Prior Year
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$50,000
Estimated Useful Life:	100+

**Description and Justification:**

Work with West Newbury and Newburyport Engineering to update existing protection plan; review contributing tributaries and develop long term goals and plans. Protect our water supply as recommended by the Newburyport Reservoir Water Quality Study dated February 2016 and our January 2005 Artichoke Watershed Protection Plan. Purchase properties abutting our public water supplies to ensure that the supplies' watersheds are not developed and remain in their natural state. This will prevent contaminants from developments from entering our water supplies. \$50k to update our January 2005 Artichoke Watershed Protection Plan. Land purchase costs TBD.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$50,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$50,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
X	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA007)

Water Supply - Quality Improvements

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$200,000
Estimated Useful Life:	Ongoing

**Description and Justification:**

The current reservoir systems are relatively shallow as confirmed by the recent bathymetric study. Shallow types of reservoir systems present operational challenges in producing the best finish water possible without taste and odor issues. Provide water quality improvements to all three of our reservoirs, as recommended in the Newburyport Reservoir Water Quality Study (February 2016). Baseline sampling and testing of the raw water sources would allow the water division to evaluate options for improving water quality while performing additional studies and water tests as recommended in the Study. The results of these studies will likely require future capital improvement project(s).

Estimated Project Costs by Fiscal Year	
FY2018	\$50,000
FY2019	\$50,000
FY2020	\$50,000
FY2021	\$50,000
FY2022	\$0
Total Five-Year Cost	\$200,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA008)

New Hypochlorite Day Tank System

Department:	DPS - Water
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The Sodium Hypochlorite system is currently run with two chemical metering pumps and two bulk storage tanks. The lack of a chemical day tank and appurtenances within this system has caused recent issues with chlorine overfeeding, resulting in a temporary plant shutdown to resolve the issue. This improvement to the system has been recommended by DEP. The plan may also incorporate a water softening system for the carrier water necessary on this chemical system.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$0
FY2020	\$25,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$25,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA009)

Public Water Supply Resiliency Plan

Department:	DPS - Water
Category:	Miscellaneous
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$40,000
Estimated Useful Life:	25 Years



Image courtesy of Flood Control International, Inc.

Description and Justification:

Bartlett Spring Pond, Lower Artichoke Reservoir Dam, and the Artichoke Pumping Station are vulnerable to flooding, storm surge, rising seas, and floodwaters from Merrimack River. Preparations must be made to protect these systems from flood damage especially in light of climate change impacts which bring more intense storms.

Phases I and II would be the Resiliency Plan and Feasibility Study and Design phases, respectively, both proposed for FY19. Phase III would be construction phases proposed for FY20.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$40,000
FY2020	\$0
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$40,000

Operating Budget Impact:	\$0
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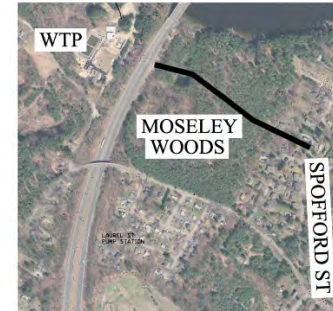
Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
X	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA010)

Replace Water Supply Line Through Moseley Woods

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	New
Priority:	2 - High
FY2017-FY2021 Project Cost:	\$400,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The City's main water supply line leaving the water treatment plant was originally constructed in the 1800's. The Whittier Bridge Project constructed a new section from the WTP to a point just east of Route 95. This project will connect to that new line and replace the 120+ year old line that runs through Moseley Woods, approximately 2,000 linear feet. The old water main in Spofford Street is anticipated to be replaced under a separate project.

Phase I in FY2019 would be survey and design. Phase II construction would be in FY2020.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$50,000
FY2020	\$350,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$400,000

Operating Budget Impact:	\$0
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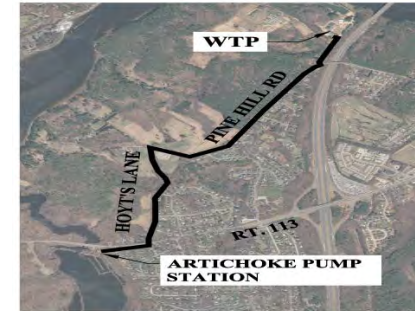
Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
X	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.

PROJECT DETAIL SHEET (WA011)

Replace Water Supply Line to Route 113

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	New
Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$1,200,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The water main supply line from the Water Treatment Plant to the neighborhoods of Hoyt's Lane, Pine Hill Road, and Spring Lane is over 100 years old and needs replacement. It is approximately 9,500 linear feet.

Phase I in FY2019 would be survey and design. Phase II construction would begin in FY2020.

Estimated Project Costs by Fiscal Year	
FY2018	\$0
FY2019	\$100,000
FY2020	\$1,100,000
FY2021	\$0
FY2022	\$0
Total Five-Year Cost	\$1,200,000

Operating Budget Impact:	\$0
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Anticipated Funding Source(s)	
	General Fund (Debt)
	General Fund (Pay As You Go)
X	Enterprise Fund (Debt)
X	Enterprise Fund (Pay As You Go)
	State/Federal Grant
	CPA Grant
	Trust Fund/Local Grant
	Other*

*Specify other funding source(s) in project description.