

# **FISCAL YEARS 2017-2021**

## **CAPITAL IMPROVEMENT PROGRAM**



**CITY OF NEWBURYPORT, MASSACHUSETTS**

**DONNA D. HOLADAY, MAYOR**

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## **I. Executive Summary**

Dear President & Members of the City Council:

I am pleased to submit herewith the proposed Fiscal Years 2017-2021 Capital Improvement Program (CIP). All projects listed under FY2017 have been, or are expected to be, funded during this current fiscal year. All projects listed under FY2018 through FY2021 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 FY2017 through FY2021. 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 FY2017 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 FY2017 totaling \$13.1 million.

## CAPITAL IMPROVEMENT PROGRAM: FY2017-FY2021

### FY2017 Capital Funding

CIP #	Page	Department	Project	Amount	Funding Source
FD002	14	Fire	Replace/Update Radio Equipment	\$55,000	General Fund Free Cash
PD001	22	Police	Portable Radios	\$45,000	General Fund Free Cash
PD006	26	Police	Special Operations Vehicle	\$45,000	Police Operating Budget / Grant
IT001	28	Information Technology	IT Hardware	\$88,500	General Fund Free Cash
PK002	31	Parks	Bartlet Mall Frog Pond Restoration	\$29,500	Grant
PK004	32	Parks	Cushing Park Improvement Project	\$28,000	Grant
PK005	33	Parks	Joppa Park Improvement Project	\$45,000	Grant
PK006	34	Parks	Inn Street Site Amenities	\$30,000	Grant
PK007	35	Parks	Field Improvement- Construction Projects - Cherry Hill	\$27,100	General Fund Free Cash
PK008	36	Parks	Field Improvement- Construction Projects - Nock Diamond	\$100,000	Grant
PK009	37	Parks	Field Improvement- Construction Projects - Fuller Complex	\$1,098,000	Excluded Debt
PK010	38	Parks	Dump Truck	\$55,000	General Fund Free Cash
PL002	41	Planning & Development	Intermodal Structured Parking Facility	\$1,028,300	Parking Bond
SC002	45	Schools	Nock-Parking Lot Repairs and Repaving	\$300,000	General Fund Free Cash
SC006	48	Schools	Nock-Elevator Controls Modernization	\$140,000	General Fund Free Cash
SC008	49	Schools	Nock-Furniture Replacement	\$25,000	General Fund Free Cash
SC015	53	Schools	High School Fire Alarm Panel Replacement	\$60,000	General Fund Free Cash
SC025	59	Schools	Pickup Truck with Plow and Utility Body	\$50,521	School Operating Budget
YS001	60	Youth Services	Purchase of 21 Passenger Mini Bus	\$40,000	Recreational Services Revolving Fund
HW003	63	DPS - Highway	Drainage Improvement Projects Phase 1	\$400,000	General Fund Bond
HW016	66	DPS - Highway	Purchase 1 1/2 Ton Diesel Dump Truck w/plow	\$85,000	General Fund Free Cash
HW020	67	DPS - Highway	Purchase 3/4 Gas Pick-up Truck with Plow	\$43,000	General Fund Free Cash
HW023	69	DPS - Highway	Ground Keeper / Landscaping Equipment	\$25,000	Cemetery Receipts Reserved for Approp.
HW027	70	DPS - Highway	Roadway Paving Improvement	\$516,329	Chapter 90 Funds
HW028	71	DPS - Highway	Sidewalk Replacement and New Construction Program	\$340,740	General Fund Free Cash / Meals Tax
HW030	73	DPS - Highway	Purchase Multi-Purpose Tractor	\$35,000	General Fund Free Cash
SW001	76	DPS - Sewer	Graf Road Lift Station	\$5,800,000	Sewer Bond / MassWorks Grant
SW004	79	DPS - Sewer	West End Sewer Access Road (formerly West End Easement)	\$350,000	Sewer Retained Earnings
SW006	81	DPS - Sewer	I/I Sewer Replacement and Manhole Project	\$250,000	Inflow/Infiltration Receipts Reserved for Approp.
SW007	82	DPS - Sewer	Replacement of Pumps , Valves and Actuators	\$90,000	Sewer Retained Earnings / CIP Funds
SW009	84	DPS - Sewer	Meter Replacement Project (Water/Sewer)	\$200,000	Water & Sewer Retained Earnings
SW012	86	DPS - Sewer	Wastewater Treatment Facility Odor Control Improvements	\$1,223,000	Sewer Bond / Retained Earnings
WA001	87	DPS - Water	Water Main Replacement	\$325,000	Water Operating Budget / Retained Earnings
WA013	96	DPS - Water	WTP Sump Pump Repair	\$50,000	Water Retained Earnings
WA014	97	DPS - Water	Artichoke Pump Station Skylight/Roof Repairs	\$25,000	Water Retained Earnings
WA016	99	DPS - Water	Sludge Removal in the Lagoons	\$40,000	Water Retained Earnings
<b>Total</b>				<b>\$13,087,990</b>	

### **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 FY2017-2021 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 \$72,726,484. 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 44.9% 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 \$12.6 million. Additional projects include the odor control improvements at the Wastewater Treatment Facility, as well as, renovations to the City's fire stations. The CIP also identifies and anticipates significant investment in existing City buildings, such as roof replacements, numerous updates to the High School and Nock/Molin School, carpet replacements, among others.

Investments in infrastructure represent 42.7% 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, roadways and sidewalks as part of the operating budget. In the past several years, sidewalk improvements have been a priority. The City has made historic investments in our sidewalks since we began earmarking 50% of meals tax revenue for their repair. The City will continue to invest a minimum of \$300,000 in sidewalks and \$500,000 in roadway improvements. Additionally, through existing enterprise funds, the City will continue to invest in infrastructure improvements, including \$8.0 million in water infrastructure improvements and \$10.3 million in sewer infrastructure projects over the next five years.

Another important area for the City is our parks, grounds, and open space, which comprises 6.7% of total spending in the CIP. A major investment in this capital improvement program is the completion of the Fuller Track Complex and Nock Diamond and multi-

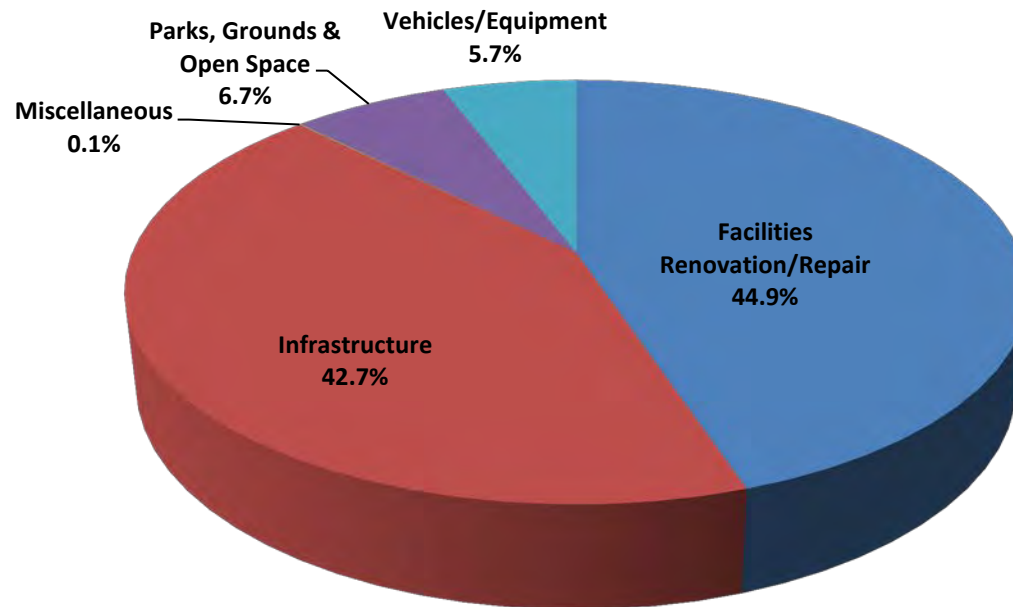
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## CAPITAL IMPROVEMENT PROGRAM: FY2017-FY2021

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use playing fields. Additional important investments include the restoration of the Bartlett Mall Frog Pond, continued work on expanding and completing the City's rail trail and updates to the City's parks with the help of grants, such as those from the Gayden Morrill Foundation.

**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 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 establishing a minimum funding target

## CAPITAL IMPROVEMENT PROGRAM: FY2017-FY2021

of 8.0% of annual revenue. Over the past five years, the City has funded capital at 8.8% 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 2017 through 2021:

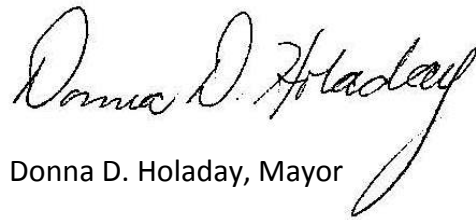
### Project Costs by Department

Estimated Project Costs by Fiscal Year						
Department	FY2017	FY2018	FY2019	FY2020	FY2021	Five-Year Total
Fire	55,000	105,000	4,440,000	5,055,000	2,575,000	12,230,000
Police	90,000	47,000	55,000	-	-	192,000
Information Technology	88,500	458,500	58,500	58,500	58,500	722,500
Library	-	30,800	28,600	-	-	59,400
Parks	1,412,600	1,211,493	1,120,000	20,000	-	3,764,093
Planning & Development	1,028,300	15,224,430	800,000	150,000	1,600,000	18,802,730
Schools	575,521	1,397,406	420,134	968,631	-	3,361,692
Youth Services	40,000	-	-	-	-	40,000
DPS - Highway	1,445,069	1,743,000	1,893,000	1,905,000	1,855,000	8,841,069
<b>Total General Fund</b>	<b>\$4,734,990</b>	<b>\$20,217,629</b>	<b>\$8,815,234</b>	<b>\$8,157,131</b>	<b>\$6,088,500</b>	<b>\$48,013,484</b>
DPS - Sewer	7,913,000	4,715,000	850,000	1,200,000	1,200,000	15,878,000
DPS - Water	440,000	1,085,000	2,560,000	2,375,000	2,375,000	8,835,000
<b>Total Enterprise Funds</b>	<b>\$8,353,000</b>	<b>\$5,800,000</b>	<b>\$3,410,000</b>	<b>\$3,575,000</b>	<b>\$3,575,000</b>	<b>\$24,713,000</b>
<b>Total Capital Improvements</b>	<b>\$13,087,990</b>	<b>\$26,017,629</b>	<b>\$12,225,234</b>	<b>\$11,732,131</b>	<b>\$9,663,500</b>	<b>\$72,726,484</b>

**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: FY2017-FY2021

### II. FY 2017-2021 CIP Summary

CIP #	Page	Department	Project Description	FY2017	FY2018	FY2019	FY2020	FY2021	Five-Year Total
FD001	13	Fire	Rechassis Forestry Pumper	\$0	\$50,000	\$0	\$0	\$0	\$50,000
FD002	14	Fire	Replace/Update Radio Equipment	\$55,000	\$55,000	\$55,000	\$55,000	\$0	\$220,000
FD004	15	Fire	Replacement Aerial Ladder Fire Truck	\$0	\$0	\$1,100,000	\$0	\$0	\$1,100,000
FD005	16	Fire	Type III Ambulance	\$0	\$0	\$185,000	\$0	\$0	\$185,000
FD006	17	Fire	Replacement of Fire Station # 2	\$0	\$0	\$0	\$5,000,000	\$0	\$5,000,000
FD007	18	Fire	Architectural Study and Design for Fire Station	\$0	\$0	\$100,000	\$0	\$0	\$100,000
FD008	19	Fire	Renovation of NFD Headquarters Station	\$0	\$0	\$3,000,000	\$0	\$0	\$3,000,000
FD009	20	Fire	Plum Island Fire Station	\$0	\$0	\$0	\$0	\$2,500,000	\$2,500,000
FD010	21	Fire	Renovation of Engine 3	\$0	\$0	\$0	\$0	\$75,000	\$75,000
		<b>Fire Total</b>		<b>\$55,000</b>	<b>\$105,000</b>	<b>\$4,440,000</b>	<b>\$5,055,000</b>	<b>\$2,575,000</b>	<b>\$12,230,000</b>
PD001	22	Police	Portable Radios	\$45,000	\$0	\$0	\$0	\$0	\$45,000
PD003	23	Police	Garage Doors	\$0	\$25,000	\$0	\$0	\$0	\$25,000
PD004	24	Police	Facility Weatherproofing	\$0	\$0	\$25,000	\$0	\$0	\$25,000
PD005	25	Police	Flooring Replacement	\$0	\$0	\$30,000	\$0	\$0	\$30,000
PD006	26	Police	Special Operations Vehicle	\$45,000	\$0	\$0	\$0	\$0	\$45,000
PD007	27	Police	Locker Replacement	\$0	\$22,000	\$0	\$0	\$0	\$22,000
		<b>Police Total</b>		<b>\$90,000</b>	<b>\$47,000</b>	<b>\$55,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$192,000</b>
IT001	28	Information Technology	IT Hardware	\$88,500	\$58,500	\$58,500	\$58,500	\$58,500	\$322,500
IT002	29	Information Technology	Municipal Fiber Network	\$0	\$400,000	\$0	\$0	\$0	\$400,000
		<b>Information Technology Total</b>		<b>\$88,500</b>	<b>\$458,500</b>	<b>\$58,500</b>	<b>\$58,500</b>	<b>\$58,500</b>	<b>\$722,500</b>
LI001	30	Library	Carpet Replacement	\$0	\$30,800	\$28,600	\$0	\$0	\$59,400
		<b>Library Total</b>		<b>\$0</b>	<b>\$30,800</b>	<b>\$28,600</b>	<b>\$0</b>	<b>\$0</b>	<b>\$59,400</b>
PK002	31	Parks	Bartlet Mall Frog Pond Restoration	\$29,500	\$40,500	\$0	\$0	\$0	\$70,000
PK004	32	Parks	Cushing Park Improvement Project	\$28,000	\$70,000	\$100,000	\$0	\$0	\$198,000
PK005	33	Parks	Joppa Park Improvement Project	\$45,000	\$20,000	\$20,000	\$20,000	\$0	\$105,000
PK006	34	Parks	Inn Street Site Amenities	\$30,000	\$20,000	\$0	\$0	\$0	\$50,000
PK007	35	Parks	Field Improvement- Construction Projects - Cherry Hill	\$27,100	\$0	\$0	\$0	\$0	\$27,100
PK008	36	Parks	Field Improvement- Construction Projects - Nock Diamond	\$100,000	\$0	\$0	\$0	\$0	\$100,000
PK009	37	Parks	Field Improvement- Construction Projects - Fuller Complex	\$1,098,000	\$1,010,993	\$1,000,000	\$0	\$0	\$3,108,993
PK010	38	Parks	Dump Truck	\$55,000	\$0	\$0	\$0	\$0	\$55,000
PK012	39	Parks	Multi-Purpose 60 HP Tractor	\$0	\$50,000	\$0	\$0	\$0	\$50,000
		<b>Parks Total</b>		<b>\$1,412,600</b>	<b>\$1,211,493</b>	<b>\$1,120,000</b>	<b>\$20,000</b>	<b>\$0</b>	<b>\$3,764,093</b>

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CIP #	Page	Department	Project Description	FY2017	FY2018	FY2019	FY2020	FY2021	Five-Year Total
PL001	40	Planning & Development	Fish Pier Embayment Dredging	\$0	\$0	\$650,000	\$0	\$0	\$650,000
PL002	41	Planning & Development	Intermodal Structured Parking Facility	\$1,028,300	\$11,524,430	\$0	\$0	\$0	\$12,552,730
PL003	42	Planning & Development	Central Waterfront Bulkhead Phase II	\$0	\$2,750,000	\$0	\$0	\$0	\$2,750,000
PL004	43	Planning & Development	Central Waterfront Rail Trail Extension/Park Expansion	\$0	\$850,000	\$0	\$0	\$0	\$850,000
PL005	44	Planning & Development	Rt 1 Traffic Circle Redevelopment/Bicycle & Pedestrian Access - Clipper City Rail Trail Phase III	\$0	\$100,000	\$150,000	\$150,000	\$1,600,000	\$2,000,000
		<b>Planning &amp; Development Total</b>		<b>\$1,028,300</b>	<b>\$15,224,430</b>	<b>\$800,000</b>	<b>\$150,000</b>	<b>\$1,600,000</b>	<b>\$18,802,730</b>
SC002	45	Schools	Nock-Parking Lot Repairs and Repaving	\$300,000	\$0	\$0	\$0	\$0	\$300,000
SC004	46	Schools	Nock-Tennis Court Renovation	\$0	\$50,000	\$0	\$0	\$0	\$50,000
SC005	47	Schools	Nock-Gym & Auditorium Roof Replacement	\$0	\$0	\$0	\$662,295	\$0	\$662,295
SC006	48	Schools	Nock-Elevator Controls Modernization	\$140,000	\$0	\$0	\$0	\$0	\$140,000
SC008	49	Schools	Nock-Furniture Replacement	\$25,000	\$25,000	\$25,000	\$25,000	\$0	\$100,000
SC009	50	Schools	High School Roof Replacement	\$0	\$890,000	\$0	\$0	\$0	\$890,000
SC010	51	Schools	High School Auditorium Plaster Repairs	\$0	\$100,000	\$0	\$0	\$0	\$100,000
SC013	52	Schools	High School Exterior Woodwork Project	\$0	\$182,406	\$160,134	\$95,336	\$0	\$437,876
SC015	53	Schools	High School Fire Alarm Panel Replacement	\$60,000	\$0	\$0	\$0	\$0	\$60,000
SC016	54	Schools	High School Masonry Repairs	\$0	\$0	\$150,000	\$141,000	\$0	\$291,000
SC020	55	Schools	High School Perimeter Stone Wall Repairs	\$0	\$0	\$65,000	\$0	\$0	\$65,000
SC021	56	Schools	High School Additional Parking Spaces and Curbing	\$0	\$150,000	\$0	\$0	\$0	\$150,000
SC023	57	Schools	High School Furniture Replacement	\$0	\$0	\$20,000	\$20,000	\$0	\$40,000
SC024	58	Schools	High School Carpet Replacement	\$0	\$0	\$0	\$25,000	\$0	\$25,000
SC025	59	Schools	Pickup Truck with Plow and Utility Body	\$50,521	\$0	\$0	\$0	\$0	\$50,521
		<b>Schools Total</b>		<b>\$575,521</b>	<b>\$1,397,406</b>	<b>\$420,134</b>	<b>\$968,631</b>	<b>\$0</b>	<b>\$3,361,692</b>
YS001	60	Youth Services	Purchase of 21 Passenger Mini Bus	\$40,000	\$0	\$0	\$0	\$0	\$40,000
		<b>Youth Services Total</b>		<b>\$40,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$40,000</b>
HW001	61	DPS - Highway	Parker Street/Scotland Road Culvert Replacement	\$0	\$0	\$0	\$200,000	\$700,000	\$900,000
HW002	62	DPS - Highway	Brown's Wharf Culvert Replacement Phase II	\$0	\$0	\$90,000	\$550,000	\$0	\$640,000
HW003	63	DPS - Highway	Drainage Improvement Projects Phase 1	\$400,000	\$200,000	\$235,000	\$0	\$0	\$835,000
HW014	64	DPS - Highway	Purchase of 6 Wheel Dump Truck with Plow	\$0	\$175,000	\$175,000	\$175,000	\$175,000	\$700,000
HW015	65	DPS - Highway	Purchase of Trackless Snow Blower	\$0	\$0	\$128,000	\$0	\$0	\$128,000
HW016	66	DPS - Highway	Purchase 1 1/2 Ton Diesel Dump Truck w/plow	\$85,000	\$85,000	\$85,000	\$0	\$0	\$255,000
HW020	67	DPS - Highway	Purchase 3/4 Gas Pick-up Truck with Plow	\$43,000	\$43,000	\$0	\$0	\$0	\$86,000
HW022	68	DPS - Highway	Stonewall at Highland Cemetery - Repair	\$0	\$40,000	\$0	\$0	\$0	\$40,000
HW023	69	DPS - Highway	Ground Keeper / Landscaping Equipment	\$25,000	\$0	\$0	\$0	\$0	\$25,000
HW027	70	DPS - Highway	Roadway Paving Improvement	\$516,329	\$500,000	\$500,000	\$500,000	\$500,000	\$2,516,329
HW028	71	DPS - Highway	Sidewalk Replacement and New Construction Program	\$340,740	\$400,000	\$400,000	\$400,000	\$400,000	\$1,940,740
HW029	72	DPS - Highway	Purchase of Tree Truck / Bucket Truck	\$0	\$0	\$200,000	\$0	\$0	\$200,000
HW030	73	DPS - Highway	Purchase Multi-Purpose Tractor	\$35,000	\$0	\$0	\$0	\$0	\$35,000

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CIP #	Page	Department	Project Description	FY2017	FY2018	FY2019	FY2020	FY2021	Five-Year Total
HW031	74	DPS - Highway	DPS Facility - Roof Replacement	\$0	\$0	\$80,000	\$80,000	\$80,000	\$240,000
HW032	75	DPS - Highway	Downtown Water/Sewer/Drain Utility Upgrades	\$0	\$300,000	\$0	\$0	\$0	\$300,000
		<b>DPS - Highway Total</b>		<b>\$1,445,069</b>	<b>\$1,743,000</b>	<b>\$1,893,000</b>	<b>\$1,905,000</b>	<b>\$1,855,000</b>	<b>\$8,841,069</b>
SW001	76	DPS - Sewer	Graf Road Lift Station	\$5,800,000	\$0	\$0	\$0	\$0	\$5,800,000
SW002	77	DPS - Sewer	Turkey Hill Sewer Main Replacement	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$2,000,000
SW003	78	DPS - Sewer	CCTV and Cleaning Sewer Downtown	\$0	\$0	\$100,000	\$0	\$0	\$100,000
SW004	79	DPS - Sewer	West End Sewer Access Road (formerly West End Easement)	\$350,000	\$0	\$0	\$0	\$0	\$350,000
SW005	80	DPS - Sewer	Barton Street/ Barton Court/ Alter Court Sewer Replacement	\$0	\$40,000	\$500,000	\$0	\$0	\$540,000
SW006	81	DPS - Sewer	I/I Sewer Replacement and Manhole Project	\$250,000	\$200,000	\$0	\$0	\$0	\$450,000
SW007	82	DPS - Sewer	Replacement of Pumps , Valves and Actuators	\$90,000	\$0	\$0	\$0	\$0	\$90,000
SW008	83	DPS - Sewer	New Crane Truck	\$0	\$75,000	\$0	\$0	\$0	\$75,000
SW009	84	DPS - Sewer	Meter Replacement Project (Water/Sewer)	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
SW011	85	DPS - Sewer	Bobcat Loader	\$0	\$0	\$50,000	\$0	\$0	\$50,000
SW012	86	DPS - Sewer	Wastewater Treatment Facility Odor Control Improvements	\$1,223,000	\$4,200,000	\$0	\$0	\$0	\$5,423,000
		<b>DPS - Sewer Total</b>		<b>\$7,913,000</b>	<b>\$4,715,000</b>	<b>\$850,000</b>	<b>\$1,200,000</b>	<b>\$1,200,000</b>	<b>\$15,878,000</b>
WA001	87	DPS - Water	Water Main Replacement	\$325,000	\$325,000	\$325,000	\$325,000	\$325,000	\$1,625,000
WA003	88	DPS - Water	Purchase of Six Wheel Dump Truck	\$0	\$175,000	\$0	\$0	\$0	\$175,000
WA005	89	DPS - Water	Route One Water Main Project	\$0	\$350,000	\$0	\$0	\$0	\$350,000
WA006	90	DPS - Water	Purchase New Backhoe	\$0	\$0	\$160,000	\$0	\$0	\$160,000
WA008	91	DPS - Water	Purchase New Hydraulic Hammer	\$0	\$0	\$25,000	\$0	\$0	\$25,000
WA009	92	DPS - Water	Flood Control to Lower Artichoke Reservoir	\$0	\$80,000	\$0	\$0	\$0	\$80,000
WA010	93	DPS - Water	Public Water Supply Protection	\$0	\$50,000	\$2,000,000	\$2,000,000	\$2,000,000	\$6,050,000
WA011	94	DPS - Water	Water Supply Reservoirs - Water Quality Improvements	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$200,000
WA012	95	DPS - Water	Dredging Water Supply Reservoirs	\$0	\$30,000	\$0	\$0	\$0	\$30,000
WA013	96	DPS - Water	WTP Sump Pump Repair	\$50,000	\$0	\$0	\$0	\$0	\$50,000
WA014	97	DPS - Water	Artichoke Pump Station Skylight/Roof Repairs	\$25,000	\$0	\$0	\$0	\$0	\$25,000
WA015	98	DPS - Water	New Hypochlorite Day Tank System	\$0	\$25,000	\$0	\$0	\$0	\$25,000
WA016	99	DPS - Water	Sludge Removal in the Lagoons	\$40,000	\$0	\$0	\$0	\$0	\$40,000
		<b>DPS - Water Total</b>		<b>\$440,000</b>	<b>\$1,085,000</b>	<b>\$2,560,000</b>	<b>\$2,375,000</b>	<b>\$2,375,000</b>	<b>\$8,835,000</b>
<b>Grand Total</b>				<b>\$13,087,990</b>	<b>\$26,017,629</b>	<b>\$12,225,234</b>	<b>\$11,732,131</b>	<b>\$9,663,500</b>	<b>\$72,726,484</b>

### III. Project Detail Sheets by Department (following pages)

## PROJECT DETAIL SHEET (FD001)

**Rechassis Forestry Pumper**

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

**Description and Justification:**

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

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$50,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD002)

**Replace/Update Radio Equipment**

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$220,000
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 radios

FY18-FY20: Annual appropriation to address repeaters and other infrastructure-related improvements. These infrastructure improvements will be for fire, police and DPS.

Estimated Project Costs by Fiscal Year	
FY2017	\$55,000
FY2018	\$55,000
FY2019	\$55,000
FY2020	\$55,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$220,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD004)

**Replacement Aerial Ladder Fire Truck**

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,100,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The department's aerial ladder truck is twenty-one (21) years old and in need of replacement. 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, 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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$1,100,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$1,100,000</b>

<b>Operating Budget Impact:</b>	<b>\$10,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD005)

**Type III Ambulance**

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$185,000
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.

This project will result in increases to the operating budget for the Fire Department, which are offset by General Fund revenue obtained from transported patients.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$185,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$185,000</b>

<b>Operating Budget Impact:</b>	<b>\$250,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD006)

**Replacement of Fire Station # 2**

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department 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 and should be updated to comply with current building and life safety codes. It is imperative that the station remain in District 2 to insure appropriate response times and staffing. Renovation costs would be extensive and would not address all of the current needs, therefore a total replacement is requested.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$5,000,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$5,000,000</b>

<b>Operating Budget Impact:</b>	<b>\$25,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD007)

**Architectural Study and Design for Fire Station**

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$100,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD008)

**Renovation of NFD Headquarters Station**

Department:	Fire
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department 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 building was built in 1978 and has had few upgrades since then. It does not meet current building and life safety codes, lacks gender separation, and is not ADA compliant. The station also lacks fire separation from the residence hall and the apparatus bay, which is now included in all newer fire stations. The building is inefficient, lacks any office or meeting space, and has no training/conference room.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$3,000,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$3,000,000</b>

<b>Operating Budget Impact:</b>	<b>\$30,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (FD009)

**Plum Island Fire Station**

Department:	<b>Fire</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>3 - Medium</b>
FY2017-FY2021 Project Cost:	<b>\$2,500,000</b>
Estimated Useful Life:	<b>30 Years</b>

**Description and Justification:**

This project would allow the City to erect a replacement fire station/emergency facility on Plum Island. There is currently no facility on Plum Island for our emergency services to utilize, and this facility would allow for emergency staffing of a facility on the island that can be used as a station/shelter for fire, police, EMS and public services.

The City is currently in the early stages of exploring a land swap, in conjunction with the Town of Newbury, with the U.S. Fish & Wildlife Service for the former mosquito control site to jointly develop a Public Safety Station on Plum Island.

<b>Estimated Project Costs by Fiscal Year</b>	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$2,500,000
<b>Total Five-Year Cost</b>	<b>\$2,500,000</b>

<b>Operating Budget Impact:</b>	<b>\$5,000</b>
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<b>Anticipated Funding Source(s)</b>	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (FD010)

**Renovation of Engine 3**

Department:	Fire
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$75,000
Estimated Useful Life:	100 Years

**Description and Justification:**

This project would allow for the restoration of the city's oldest fire engine. This truck, a 1938 Maxim fire engine, is still in use today as a parade/celebration/educational piece and is a celebrated part of Newburyport's history. It is 78 years old and it deserves to be restored so that future generations can enjoy this irreplaceable piece of history.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$75,000
<b>Total Five-Year Cost</b>	<b>\$75,000</b>

<b>Operating Budget Impact:</b>	<b>\$500</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PD001)

**Portable Radios**

Department:	Police
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$45,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The current portable police radios are going on 8 years old. They are starting to break down and becoming costly to repair. The portable radio is the life support for communications for every officer on the street. The department is looking to purchase 45 radios along with 2 batteries per radio and charging station per radio.

The fire department is carrying costs in later years for infrastructure improvements that will benefit police, fire and DPS.

Estimated Project Costs by Fiscal Year	
FY2017	\$45,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$45,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PD003)

**Garage Doors**

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
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 20 years old and are rusting out and in need of replacement.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$25,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PD004)

**Facility Weatherproofing**

Department:	Police
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$25,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PD005)

**Flooring Replacement**

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

**Description and Justification:**

The rugs in the police station are 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. The rugs are now going on 20 years old.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$30,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$30,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PD006)

**Special Operations Vehicle**

Department:	Police
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$45,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The department is in need of a special operations vehicle. This vehicle would be used as a utility vehicle. It would be equipped with crime scene investigation materials as well as hazardous materials equipment. The vehicle will also be used for our police training and dive team operations.

Estimated Project Costs by Fiscal Year	
FY2017	\$45,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$45,000</b>

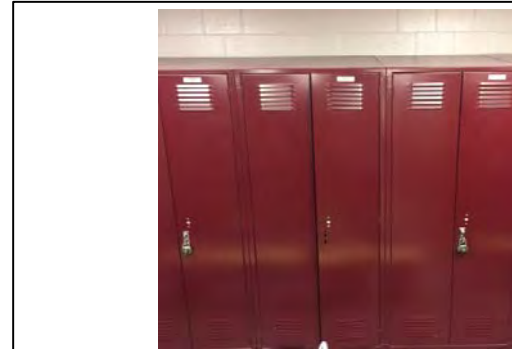
<b>Operating Budget Impact:</b>	<b>\$1,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PD007)

**Locker Replacement**

Department:	<b>Police</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>New</b>
Department Priority:	<b>3 - Medium</b>
FY2017-FY2021 Project Cost:	<b>\$22,000</b>
Estimated Useful Life:	<b>20 years</b>

**Description and Justification:**

The existing lockers that the officers use to store their duty gear and weapons are desperately in need of repair. The current lockers are 21 years old. The existing locker doors and locking mechanisms are failing and are irreparable. The parts from the officers lockers will be used to repair the ten supervisor lockers.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$22,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$22,000</b>

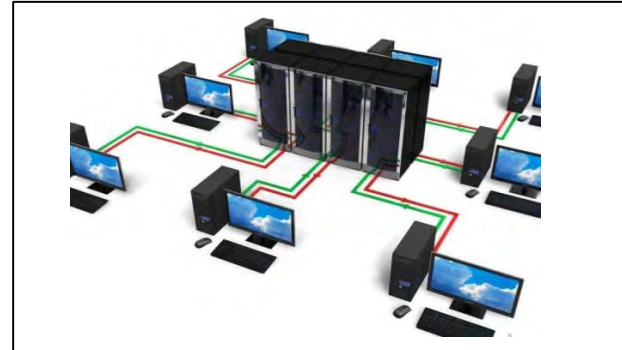
<b>Operating Budget Impact:</b>	<b>\$0</b>
---------------------------------	------------

Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (IT001)

**IT Hardware**

Department:	Information Technology
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$322,500
Estimated Useful Life:	4 Years

**Description and Justification:**

Ongoing Computer Equipment Maintenance and Renewal:  
 2017 (60) Computers to be replaced + 2 multifunction psf + 4 HP Procurve Switches  
 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

Estimated Project Costs by Fiscal Year	
FY2017	\$88,500
FY2018	\$58,500
FY2019	\$58,500
FY2020	\$58,500
FY2021	\$58,500
<b>Total Five-Year Cost</b>	<b>\$322,500</b>

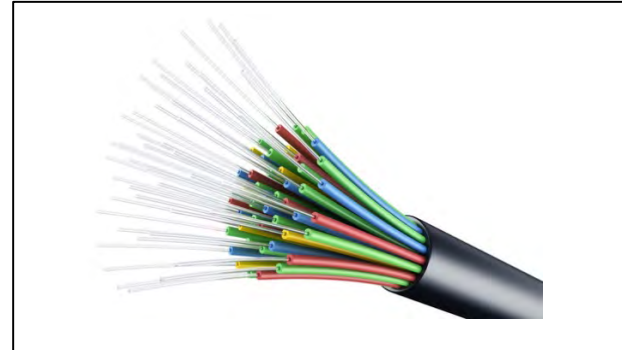
<b>Operating Budget Impact:</b>	<b>\$0</b>
---------------------------------	------------

Anticipated Funding Source(s)	
X	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (IT002)

**Municipal Fiber Network**

Department:	Information Technology
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$400,000
Estimated Useful Life:	20 Years

**Description and Justification:**

The purpose and urgent necessity of this project is to implement a city-wide fiber optic network that will support the City's full network requirements. This network will replace the existing network (which is older slower wireless technology not fiber optic) and upgrade the City's communications to a high-speed, fully redundant fiber network topology. The project will include design, engineering and installation of the fiber optic network that will support the City's Video Return Network requirements Public Safety Radio backbone as well. This one-time capital project will make Newburyport's government more efficient, improve community safety, save taxpayer money, and make it easier for residents to interact and transact with local government. We estimate an annual maintenance cost of \$15K-20K.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$400,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$400,000</b>

<b>Operating Budget Impact:</b>	<b>\$20,000</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (LI001)

**Carpet Replacement**

Department:	Library
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$59,400
Estimated Useful Life:	20 Years

**Description and Justification:**

Original carpets installed during the 2001 building projects are now 16 years old. We have systematically replaced worn carpets over the last seven years with Capital Improvement and other funds. Funding for the remaining carpet replacements (Children's Room, Archival Center and 2nd/3rd floor stack areas) has been in the capital plan since FY2014. This two-year project would complete these carpet replacements. Year 1 - Children's Room and Archival Center ; Year 2 - 2nd/3rd floor stacks. Since vendor quotes are now a few years old, cost estimates have been adjusted to build in a 10% increase.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$30,800
FY2019	\$28,600
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$59,400</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PK002)

**Bartlet Mall Frog Pond Restoration**

Department:	<b>Parks</b>
Category:	<b>Parks, Grounds &amp; Open Space</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>1 - Urgent/Very High</b>
FY2017-FY2021 Project Cost:	<b>\$70,000</b>
Estimated Useful Life:	<b>100 Years</b>

**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	
FY2017	\$29,500
FY2018	\$40,500
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$70,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK004)

**Cushing Park Improvement Project**

Department:	<b>Parks</b>
Category:	<b>Parks, Grounds &amp; Open Space</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>2 - High</b>
FY2017-FY2021 Project Cost:	<b>\$198,000</b>
Estimated Useful Life:	<b>100 Years</b>

**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. A multi-year, public discussion between the City Council, the Mayor's office, Parks Commission and residents has grown into a more concrete plan to return a more park-like feel to the space while retaining its functionality as winter parking. A popular trend called "pop-up parks" has inspired the commission to look at adding moveable park amenities, which can create an outdoor gathering space during the warm season, and be removed in winter to allow for parking.

Estimated Project Costs by Fiscal Year	
FY2017	\$28,000
FY2018	\$70,000
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$198,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK005)

**Joppa Park Improvement Project**

Department:	<b>Parks</b>
Category:	<b>Parks, Grounds &amp; Open Space</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>2 - High</b>
FY2017-FY2021 Project Cost:	<b>\$105,000</b>
Estimated Useful Life:	<b>100 Years</b>

**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	
FY2017	\$45,000
FY2018	\$20,000
FY2019	\$20,000
FY2020	\$20,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$105,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK006)

## Inn Street Site Amenities

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$50,000
Estimated Useful Life:	50 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. The Inn Street Fountain was restored in FY2017, however additional site amenities would help to fully update this Newburyport landmark. 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	
FY2017	\$30,000
FY2018	\$20,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

<b>Operating Budget Impact:</b>	<b>\$500</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK007)

**Field Improvement- Construction Projects - Cherry Hill**

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$28,059
Estimated Useful Life:	100 Years

**Description and Justification:**

In response to a need for additional athletic field space, the city is supporting an initiative by the Newburyport Youth Soccer Association to expand the facility they license at Cherry Hill in order to accommodate an additional full-size soccer field. The project includes: construction of a new full-size soccer field; improved traffic patterns; improved parking plan; clearing of overgrowth to address site security issues. \$325,000 of this project is being funded by NYSA. \$184,000 has been secured through CPA funding in 2013 and 2014. Project completed except for bringing electric to the site and fine tuning of irrigation to accommodate the electrical.

Estimated Project Costs by Fiscal Year	
FY2017	\$27,100
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$27,100</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PK008)

**Field Improvement- Construction Projects - Nock Diamond**

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$100,000
Estimated Useful Life:	100 Years

**Description and Justification:**

In response to a need for additional athletic field space, the city constructed a full-size baseball diamond behind the Nock-Molin school and making much needed turf, drainage and irrigation improvements to make the fields safer and maximize their use potential.

Estimated Project Costs by Fiscal Year	
FY2017	\$100,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$100,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK009)

## Field Improvement- Construction Projects - Fuller Complex

Department:	Parks
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$3,108,993
Estimated Useful Life:	50 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 dropoff 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	
FY2017	\$1,098,000
FY2018	\$1,010,993
FY2019 (Synthetic Turf)	\$1,000,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$3,108,993</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PK010)

**Dump Truck**

Department:	<b>Parks</b>
Category:	<b>Vehicles/Equipment</b>
Request Type (New/Prior Year):	<b>New</b>
Department Priority:	<b>1 - Urgent/Very High</b>
FY2017-FY2021 Project Cost:	<b>\$55,000</b>
Estimated Useful Life:	<b>12 Years</b>

**Description and Justification:**

The Parks Department currently uses 2 personal vehicles and one non-dumping trailer to haul material, tow equipment and move 3 work crews to separate sites on a daily basis. Using personal vehicles for hauling and/or towing is a liability for the City and damaging to our staff's vehicles. The truck is a two ton gas powered truck, equipped with a dump body and 8 foot fisher plow.

Estimated Project Costs by Fiscal Year	
FY2017	\$55,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$55,000</b>

<b>Operating Budget Impact:</b>	<b>\$1,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PK012)

**Multi-Purpose 60 HP Tractor**

Department:	<b>Parks</b>
Category:	<b>Vehicles/Equipment</b>
Request Type (New/Prior Year):	<b>New</b>
Department Priority:	<b>1 - Urgent/Very High</b>
FY2017-FY2021 Project Cost:	<b>\$50,000</b>
Estimated Useful Life:	<b>12 years</b>

**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	
FY2017	\$0
FY2018	\$50,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

<b>Operating Budget Impact:</b>	<b>\$500</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
X	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (PL001)

**Fish Pier Embayment Dredging**

Department:	<b>Planning &amp; Development</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>3 - Medium</b>
FY2017-FY2021 Project Cost:	<b>\$650,000</b>
Estimated Useful Life:	<b>100 Years</b>

**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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$650,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$650,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PL002)

**Intermodal Structured Parking Facility**

Department:	<b>Planning &amp; Development</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>1 - Urgent/Very High</b>
FY2017-FY2021 Project Cost:	<b>\$12,552,730</b>
Estimated Useful Life:	<b>75 Years</b>

**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 the MVRTA's consulting project managers, engineers and architects. Debt service and operating costs to be funded by Paid Parking Receipts.

<b>Estimated Project Costs by Fiscal Year</b>	
FY2017	\$1,028,300
FY2018	\$11,524,430
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$12,552,730</b>

<b>Operating Budget Impact:</b>	<b>\$200,000</b>
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<b>Anticipated Funding Source(s)</b>	
	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
X	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PL003)

**Central Waterfront Bulkhead Phase II**

Department:	Planning & Development
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$2,750,000
Estimated Useful Life:	25 Years

**Description and Justification:**

Phase I was completed in 2014 with available funding, 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. Work will likely need to be done in the winter to meet permitting requirements.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$2,750,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$2,750,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

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
Department 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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$850,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$850,000</b>

<b>Operating Budget Impact:</b>	<b>\$15,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (PL005)

**Rt 1 Traffic Circle Redevelopment/Bicycle & Pedestrian Access - Clipper City Rail Trail Phase III**

Department:	Planning & Development
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$2,000,000
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	
FY2017	\$0
FY2018	\$100,000
FY2019	\$150,000
FY2020	\$150,000
FY2021	\$1,600,000
<b>Total Five-Year Cost</b>	<b>\$2,000,000</b>

<b>Operating Budget Impact:</b>	<b>\$15,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
X	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (YS001)

**Purchase of 21 Passenger Mini Bus**

Department:	<b>Youth Services</b>
Category:	<b>Vehicles/Equipment</b>
Request Type (New/Prior Year):	<b>New</b>
Department Priority:	<b>2 - High</b>
FY2017-FY2021 Project Cost:	<b>\$40,000</b>
Estimated Useful Life:	<b>10 Years</b>

**Description and Justification:**

Youth Services currently operates out of a 10 passenger van, limiting the number of participants on trips and programs offered by the City. A purchase of a used 21 passenger mini bus will allow the department to double the size of teen trips and programs that often fill to current capacity.

To be funded by the Recreational Services Revolving Fund.

Estimated Project Costs by Fiscal Year	
FY2017	\$40,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$40,000</b>

<b>Operating Budget Impact:</b>	<b>\$1,000</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
X	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC002)

**Nock-Parking Lot Repairs and Repaving**

Department:	Schools
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$300,000
Estimated Useful Life:	25 Years

**Description and Justification:**

Parking lot is in extremely poor condition and needs a total replacement. Lighting is also poor in most areas of the parking lot and needs to be improved for safety reasons.

Estimated cost comes from estimates provided during the recent renovation project. This project was considered to be included as part of that project, but there was not sufficient budget to do so.

Estimated Project Costs by Fiscal Year	
FY2017	\$300,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$300,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC004)

**Nock-Tennis Court Renovation**

Department:	Schools
Category:	Parks, Grounds & Open Space
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$50,000
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 \$4.00/square foot.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$50,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC005)

**Nock-Gym & Auditorium Roof Replacement**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	4 - Low
FY2017-FY2021 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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$662,295
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$662,295</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SC006)

**Nock-Elevator Controls Modernization**

Department:	Schools
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$140,000
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.

Estimated Project Costs by Fiscal Year	
FY2017	\$140,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$140,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC008)

**Nock-Furniture Replacement**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$100,000
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.

Estimated Project Costs by Fiscal Year	
FY2017	\$25,000
FY2018	\$25,000
FY2019	\$25,000
FY2020	\$25,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$100,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC009)

**High School Roof Replacement**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$890,000
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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$890,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$890,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SC010)

**High School Auditorium Plaster Repairs**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$100,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$100,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SC013)

**High School Exterior Woodwork Project**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$437,876
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 has been submitted.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$182,406
FY2019	\$160,134
FY2020	\$95,336
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$437,876</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC015)

**High School Fire Alarm Panel Replacement**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$60,000
Estimated Useful Life:	15 Years

**Description and Justification:**

The existing fire alarm panel was installed as part of the building renovation/addition in 1999-2002. The panel contains a number of programming chips, some of which are faulty, causing false trouble signals on the panel. The manufacturer no longer supports this particular panel and these programming chips and other parts are not available.

Estimated Project Costs by Fiscal Year	
FY2017	\$60,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$60,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC016)

**High School Masonry Repairs**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$291,000
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. This project would continue that work around both the east and west sides of the building. Allowing water to continue to penetrate will hasten the deterioration of those walls from the inside out.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$150,000
FY2020	\$141,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$291,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SC020)

**High School Perimeter Stone Wall Repairs**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$65,000
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	
FY2017	\$0
FY2018	\$0
FY2019	\$65,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$65,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
X	Trust Fund(s)
X	Free Cash
	Revolving Fund
X	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC021)

**High School Additional Parking Spaces and Curbing**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$150,000
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.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$150,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$150,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC023)

**High School Furniture Replacement**

Department:	Schools
Category:	Miscellaneous
Request Type (New/Prior Year):	Prior Year
Department Priority:	4 - Low
FY2017-FY2021 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	
FY2017	\$0
FY2018	\$0
FY2019	\$20,000
FY2020	\$20,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$40,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC024)

**High School Carpet Replacement**

Department:	Schools
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	4 - Low
FY2017-FY2021 Project Cost:	\$25,000
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	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$25,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SC025)

**Pickup Truck with Plow and Utility Body**

Department:	Schools
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$50,521
Estimated Useful Life:	15 Years

**Description and Justification:**

This vehicle will replace an existing van that is approximately 15 years old and will probably not pass inspection later this year. Replacing the van with a pickup truck will provide us with a second vehicle with a plow, which will allow the Maintenance Team to support the DPS' efforts to plow our parking lots and driveways. The utility body will allow us to carry an organized stock of parts and other supplies for efficiently servicing the maintenance needs of the three school buildings.

Estimated Project Costs by Fiscal Year	
FY2017	\$50,521
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,521</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW001)

**Parker Street/Scotland Road Culvert Replacement**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$200,000
FY2021	\$700,000
<b>Total Five-Year Cost</b>	<b>\$900,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (HW002)

**Brown's Wharf Culvert Replacement Phase II**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$90,000
FY2020	\$550,000
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$640,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (HW003)

**Drainage Improvement Projects Phase 1**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$835,000
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	
FY2017	\$400,000
FY2018	\$200,000
FY2019	\$235,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$835,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW014)

**Purchase of 6 Wheel Dump Truck with Plow**

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$700,000
Estimated Useful Life:	15 Years

**Description and Justification:**

These four trucks will replace two 1999 trucks and two 2000 Mack six wheel dump trucks with plows. These are front line trucks used to haul materials to and from job sites and for snow plowing.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$175,000
FY2019	\$175,000
FY2020	\$175,000
FY2021	\$175,000
<b>Total Five-Year Cost</b>	<b>\$700,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW015)

**Purchase of Trackless Snow Blower**

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

**Description and Justification:**

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

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$128,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$128,000</b>

<b>Operating Budget Impact:</b>	<b>\$1,000</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

PROJECT DETAIL SHEET (HW016)

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

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$255,000
Estimated Useful Life:	10 Years



**Description and Justification:**

This truck will replace truck #12 which is a 2001 Chevy C3500. This truck is in very poor condition and may be taken off roadway shortly.

Estimated Project Costs by Fiscal Year	
FY2017	\$85,000
FY2018	\$85,000
FY2019	\$85,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$255,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW020)

**Purchase 3/4 Gas Pick-up Truck with Plow**

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$86,000
Estimated Useful Life:	10 Years

**Description and Justification:**

These trucks will replace a 2000 Chevrolet (Truck #10) and 2003 Ford (Truck #7) which are at the end of their life expectancy.

Estimated Project Costs by Fiscal Year	
FY2017	\$43,000
FY2018	\$43,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$86,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW022)

**Stonewall at Highland Cemetery - Repair**

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department 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.

Funded from Cemetery Receipts Reserved for Appropriation Fund.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$40,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$40,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
X	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW023)

**Ground Keeper / Landscaping Equipment**

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	5 Years

**Description and Justification:**

Purchase of two stand-behind lawn mowers and three snow blowers. To replace equipment that are over 10 years old.

Funded from Cemetery Receipts Reserved for Appropriation Fund.

Estimated Project Costs by Fiscal Year	
FY2017	\$25,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
X	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW027)

**Roadway Paving Improvement**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$2,516,329
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	
FY2017	\$516,329
FY2018	\$500,000
FY2019	\$500,000
FY2020	\$500,000
FY2021	\$500,000
<b>Total Five-Year Cost</b>	<b>\$2,516,329</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (HW028)

**Sidewalk Replacement and New Construction Program**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$1,940,740
Estimated Useful Life:	30 Years

**Description and Justification:**

The City dedicates 50% of annual meals tax receipts plus a minimum of \$60,000 per year, subject to availability of funds, 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	
FY2017	\$340,740
FY2018	\$400,000
FY2019	\$400,000
FY2020	\$400,000
FY2021	\$400,000
<b>Total Five-Year Cost</b>	<b>\$1,940,740</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
X	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (HW029)

**Purchase of Tree Truck / Bucket Truck**

Department:	DPS - Highway
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$200,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$200,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW030)

**Purchase Multi-Purpose Tractor**

Department:	<b>DPS - Highway</b>
Category:	<b>Vehicles/Equipment</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>2 - High</b>
FY2017-FY2021 Project Cost:	<b>\$35,000</b>
Estimated Useful Life:	<b>15 Years</b>

**Description and Justification:**

The vehicle would replace a Truck 24 a 1995 John Deere 855 tractor used for mowing and snow clearance on sidewalks.

Estimated Project Costs by Fiscal Year	
FY2017	\$35,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$35,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW031)

**DPS Facility - Roof Replacement**

Department:	<b>DPS - Highway</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>3 - Medium</b>
FY2017-FY2021 Project Cost:	<b>\$240,000</b>
Estimated Useful Life:	<b>25 Years</b>

**Description and Justification:**

The current roof is original to the building (29 years) and starting to fail. Over the past 29 years, as needed sealing and caulking repairs have been made however, the roof will need to be replaced in the next few years.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$80,000
FY2020	\$80,000
FY2021	\$80,000
<b>Total Five-Year Cost</b>	<b>\$240,000</b>

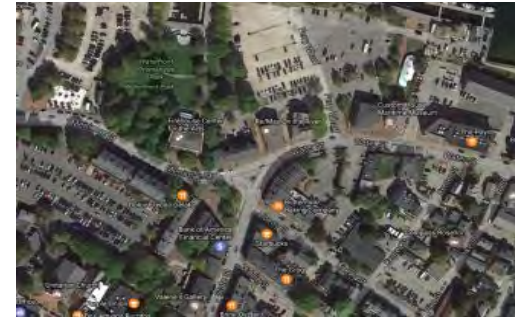
<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (HW032)

**Downtown Water/Sewer/Drain Utility Upgrades**

Department:	DPS - Highway
Category:	Infrastructure
Request Type (New/Prior Year):	New
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$100,000
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 some 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.

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

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$300,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$300,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
X	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
X	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SW001)

**Graf Road Lift Station**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$5,800,000
Estimated Useful Life:	50 Years

**Description and Justification:**

Built in 1988 the current station at capacity, operator safety issues, etc. Graf Rd station pumps roughly 200-400 thousand gallons per day it is the biggest station in Newburyport and needs to be replaced.

Graf Lift Station is the largest lift station in Newburyport. The lift station is at capacity and must be upgraded to be able to adequately handle current and additional development projects in the Business and Industry Park and Route 1 Traffic Circle. Funded by \$4.8M bond order and \$1.8M MassWorks Grant.

Estimated Project Costs by Fiscal Year	
FY2017	\$5,800,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$5,800,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (SW002)

**Turkey Hill Sewer Main Replacement**

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

**Description and Justification:**

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

Construction FY2020/2021.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$0
FY2020	\$1,000,000
FY2021	\$1,000,000
<b>Total Five-Year Cost</b>	<b>\$2,000,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW003)

**CCTV and Cleaning Sewer Downtown**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department 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 bottlenecking. 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	
FY2017	\$0
FY2018	\$0
FY2019	\$100,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$100,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW004)

**West End Sewer Access Road (formerly West End Easement)**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$350,000
Estimated Useful Life:	50 Years

**Description and Justification:**

Currently the sewer department has no access to the gravity and force sewer main's in this area. This area is abutting our public water supply and it is critical that the sewers are maintained to prevent the Artichoke's contamination. This Project will construct a new 12-foot wide gravel access road from the Artichoke Pump Station to a point just shy of Everett Drive and these funds will also be used to pay for the needed access easements with various property owners.

Estimated Project Costs by Fiscal Year	
FY2017	\$350,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$350,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW005)

**Barton Street/ Barton Court/ Alter Court Sewer Replacement**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	3 - Medium
FY2017-FY2021 Project Cost:	\$540,000
Estimated Useful Life:	100 Years

**Description and Justification:**

Barton Street 700LF 6" clay  
 Barton Court 100LF 6" clay  
 Alter Ct 100LF 6" clay

All three streets are clay lines that have reached the life expectancy. All to be replaced with 8" PVC.

Barton Court and Alter Court also both have negative pitch causing sewer issues. The design is 50% complete.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$40,000
FY2019	\$500,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$540,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW006)

**I/I Sewer Replacement and Manhole Project**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$450,000
Estimated Useful Life:	100 Years

**Description and Justification:**

The six-inch clay sewer line on the following streets will be replaced with PVC:

Dawes St: 700LF  
 Columbus: 200LF  
 Willow: 500LF  
 Warren: 700LF

The first phase to be funded by an appropriation from the Inflow/Infiltration (I/I) Receipts Reserved for Appropriation Fund, as recommended by the Water & Sewer Commission. Funding request to be submitted in April 2017

Estimated Project Costs by Fiscal Year	
FY2017	\$250,000
FY2018	\$200,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$450,000</b>

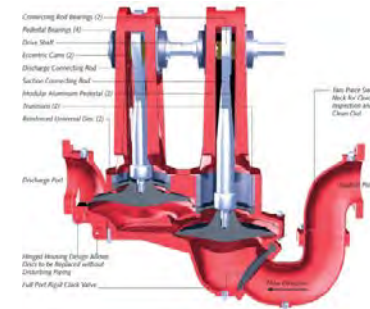
<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
	Enterprise Receipts
	Trust Fund(s)
	Free Cash
X	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW007)

**Replacement of Pumps , Valves and Actuators**

Department:	<b>DPS - Sewer</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>Prior Year</b>
Department Priority:	<b>2 - High</b>
FY2017-FY2021 Project Cost:	<b>\$90,000</b>
Estimated Useful Life:	<b>5 Years</b>

**Description and Justification:**

Replacement of four Penn Valley pumps at the WWTF. These pumps are used for waste pumping, moving sludge, etc. The pumps were installed in 1979 and during WWTF upgrades only the motors were replaced, not the pumps.

The Water & Sewer Commission recommends the appropriation of \$67,000 from the Sewer Enterprise Fund Retained Earnings; re-appropriation of \$12,358.05 from CIP WWTF Fence capital project account and re-appropriation of \$10,641.95 from CIP WWTF Improvement capital project account. Funding requests to be submitted in April 2017.

Estimated Project Costs by Fiscal Year	
FY2017	\$90,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$90,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW008)

**New Crane Truck**

Department:	DPS - Sewer
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very 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	
FY2017	\$0
FY2018	\$75,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$75,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW009)

**Meter Replacement Project (Water/Sewer)**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$500,000
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	
FY2017	\$200,000
FY2018	\$200,000
FY2019	\$200,000
FY2020	\$200,000
FY2021	\$200,000
<b>Total Five-Year Cost</b>	<b>\$1,000,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW011)

**Bobcat Loader**

Department:	DPS - Sewer
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$0
FY2019	\$50,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

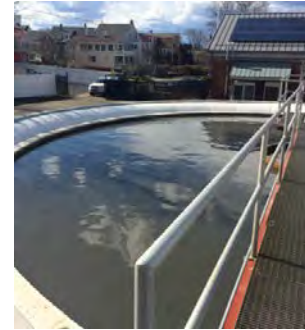
<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (SW012)

**Wastewater Treatment Facility Odor Control Improvements**

Department:	DPS - Sewer
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$5,000,000
Estimated Useful Life:	30 Years

**Description and Justification:**

Install odor control systems at WWTF. Project is currently out to bid with construction to commence Spring 2017.

Design was funded from Sewer Enterprise Fund retained earnings. Construction to be funded by a \$5M bond.

Estimated Project Costs by Fiscal Year	
FY2017	\$1,223,000
FY2018	\$4,200,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$5,423,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA001)

**Water Main Replacement**

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very 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.

The top five mains to replace are Hale Street, approximately 1000 linear feet (LF) of 12" ductile iron (DI), est. cost \$85,000; Arlington St, approximately 1000 LF of 8" DI, est. cost \$100,000; Monroe St, approximately 1800LF of 8" DI, est. cost \$180,000; River/Savory St, approximately 600LF of 8" DI, est. cost \$50,000; Oakland St, approximately 1700LF of 8" DI, est. cost \$160,000; Finnegan Way, approximately 200LF of 8" DI, est. cost \$20,000.

Estimated Project Costs by Fiscal Year	
FY2017	\$325,000
FY2018	\$325,000
FY2019	\$325,000
FY2020	\$325,000
FY2021	\$325,000
<b>Total Five-Year Cost</b>	<b>\$1,625,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA003)

**Purchase of Six Wheel Dump Truck**

Department:	DPS - Water
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$175,000
Estimated Useful Life:	15 Years

**Description and Justification:**

This piece of equipment is necessary for the Water Division to continue its water main replacement program, emergencies and moving of equipment. This will replace an existing piece of equipment from 1999. Currently the dump body needs replacement at an approximate cost of \$20-\$30K along with frame work. The dump body needs to be removed in order to estimate the cost of the frame work.

This is a vital piece of equipment so that the construction division can continue to provide emergency and replacement operations for all users of the City's water system. This is the only truck in DPS that can tow the excavator, a critical piece of equipment needed for both emergency and replacement operations.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$175,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$175,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA005)

**Route One Water Main Project**

Department:	DPS - Water
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department 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	
FY2017	\$0
FY2018	\$350,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$350,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (WA006)

**Purchase New Backhoe**

Department:	DPS - Water
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$160,000
Estimated Useful Life:	10 Years

**Description and Justification:**

The need to replace this piece of equipment is extremely important as it is our main piece of equipment in case of emergencies. Our current backhoe is now ten years old and maintenance repairs have begun to come up regularly.

The need for frontline emergency equipment that is reliable.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$160,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$160,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA008)

**Purchase New Hydraulic Hammer**

Department:	DPS - Water
Category:	Vehicles/Equipment
Request Type (New/Prior Year):	Prior Year
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	0 Years

**Description and Justification:**

This piece of equipment would help break up concrete, ledge and assist with breaking up frozen earth/hot top in case of an emergency.

Currently, we do not own this piece of equipment. It would be a very useful tool and extremely helpful in emergency situations when time is of the essence instead of manually breaking up earth/frozen ground manually with a jackhammer.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$0
FY2019	\$25,000
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA009)

**Flood Control to Lower Artichoke Reservoir**

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	New
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$80,000
Estimated Useful Life:	75 Years

**Description and Justification:**

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. \$80k for design, construction costs TBD based on final design.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$80,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$80,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

**Water Resource Protection District**  
City of Newburyport

**Legend**

- Water Bodies**
  - Open Water
  - Wetland
- Wetland Buffers**
  - Zone 1
  - Zone 2
  - Zone 3
  - Zone 4
  - Zone 5
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**Scale**

**North Arrow**

**Inset Map**

**Map Notes**

The map shows the Water Resource Protection District of Newburyport, which is a designated area for the protection of water resources. The district is divided into various zones, each with specific land use regulations. The map also shows the location of the district within the City of Newburyport and the State of Massachusetts.

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.

Anticipated Funding Source(s)	
	Tax Levy
X	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

<b>Operating Budget Impact:</b>	<b>\$0</b>
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## PROJECT DETAIL SHEET (WA011)

**Water Supply Reservoirs - Water Quality Improvements**

Department:	DPS - Water
Category:	Infrastructure
Request Type (New/Prior Year):	New
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$200,000
Estimated Useful Life:	Ongoing

**Description and Justification:**

Provide water quality improvements to all three of our reservoirs, as recommended in the Newburyport Reservoir Water Quality Study February 2016. Perform 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	
FY2017	\$0
FY2018	\$50,000
FY2019	\$50,000
FY2020	\$50,000
FY2021	\$50,000
<b>Total Five-Year Cost</b>	<b>\$200,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (WA012)

**Dredging Water Supply Reservoirs**

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

**Description and Justification:**

Dredge both Artichoke reservoirs as recommended by our engineering consultant in order to maintain adequate water depths to meet water quality standards. \$30k for design, dredging costs will be determined in the design phase.

Estimated Project Costs by Fiscal Year	
FY2017	\$0
FY2018	\$30,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$30,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)

## PROJECT DETAIL SHEET (WA013)

**WTP Sump Pump Repair**

Department:	<b>DPS - Water</b>
Category:	<b>Facilities Renovation/Repair</b>
Request Type (New/Prior Year):	<b>New</b>
Department Priority:	<b>1 - Urgent/Very High</b>
FY2017-FY2021 Project Cost:	<b>\$50,000</b>
Estimated Useful Life:	<b>20 Years</b>

**Description and Justification:**

The backup sump pump for the Water Treatment Plant has broken its main impellor shaft. The repair will require that the motor and pump assembly are removed and re-installed for access to pump shaft assembly. The location of the large pump assembly under the existing concrete stairs will require special rigging to execute the work.

The Water & Sewer Commission recommends appropriating \$50,000 from Water Enterprise Fund Retained Earnings for this project. A funding request will be submitted in April 2017.

Estimated Project Costs by Fiscal Year	
FY2017	\$50,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$50,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA014)

**Artichoke Pump Station Skylight/Roof Repairs**

Department:	DPS - Water
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Department Priority:	1 - Urgent/Very High
FY2017-FY2021 Project Cost:	\$25,000
Estimated Useful Life:	10 years

**Description and Justification:**

The roof skylight hatches which are located directly over the raw water pumps and motors are leaking. The inside ceilings and skylight access hatchways are showing water damage and large sections of the ceilings are starting to fall apart. Repairs to the hatches and ceilings should be done before sections of the ceiling material fall onto the pumps, motors and related electrical gear.

The Water & Sewer Commission recommends appropriating \$25,000 from Water Enterprise Fund Retained Earnings for this project. A funding request will be submitted in April 2017.

Estimated Project Costs by Fiscal Year	
FY2017	\$25,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA015)

**New Hypochlorite Day Tank System**

Department:	DPS - Water
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Department Priority:	1 - Urgent/Very High
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	
FY2017	\$0
FY2018	\$25,000
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$25,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
	Grant(s)

## PROJECT DETAIL SHEET (WA016)

**Sludge Removal in the Lagoons**

Department:	DPS - Water
Category:	Facilities Renovation/Repair
Request Type (New/Prior Year):	New
Department Priority:	2 - High
FY2017-FY2021 Project Cost:	\$40,000
Estimated Useful Life:	10 years

**Description and Justification:**

The sludge levels in lagoons has continually increased as the yearly sludge pumping removal and drying process only allows a limited quantity of sludge to be dried and shipped. The increased sludge levels in the lagoon cannot be pumped to due it hardened nature and mechanical methods will be required to transfer the material to the drying bed. Allowing the sludge levels in the lagoons to remain could result in EPA violation.

The Water & Sewer Commission recommends appropriating \$40,000 from Water Enterprise Fund Retained Earnings for this project. A funding request will be submitted in April 2017.

Estimated Project Costs by Fiscal Year	
FY2017	\$40,000
FY2018	\$0
FY2019	\$0
FY2020	\$0
FY2021	\$0
<b>Total Five-Year Cost</b>	<b>\$40,000</b>

<b>Operating Budget Impact:</b>	<b>\$0</b>
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Anticipated Funding Source(s)	
	Tax Levy
	Debt
X	Enterprise Receipts
	Trust Fund(s)
	Free Cash
	Revolving Fund
	CPA
X	Grant(s)