



**Capital Improvement Plan**  
**FY2023-FY2027**

The Following is the Capital Improvement Plan (CIP) for the Town of Tewksbury which covers the next five (5) Fiscal Years, 2023-2027. The plan outlines the project requests from each Department and the year in which the project is proposed for funding. The funding sources are either Raise and Appropriate (R & A), transfer from the Stabilization fund, transfer from the Free Cash (FC), transfer from the Enterprise Fund Retained Earnings, Chapter 90, Grants, Gifts or borrowing.

### **Part I: Glossary of Financial Terms**

### **Part II: Five (5) year CIP**

The first page is a summary of the requests by Department, potential funding sources, and the amount requested each of the next five (5) Fiscal Years.

Second page is a summary of the projects that will be funded by either Raise and Appropriate (R & A), transfer from the Stabilization fund, transfer from the Free Cash (FC), transfer from the Enterprise Retained Earning.

Third page is a summary of the projects that will be funded by Chapter 90 funds.

Fourth page is a summary of the General Fund projects that will be funded by borrowing. The summary outlines the annual debt service costs.

Fifth page is a summary of the Enterprise Fund projects, specifically Water Enterprise Fund Projects that will be funded by borrowing. The summary outlines the annual debt service costs.

### **Part III: Project Narratives**

List of all of specific request Project and Narratives submitted by the Departments with proposed funding for each year.

# **Glossary of Financial Terms**

## **Part I**

## **Glossary of Financial Terms**

**Appropriation** – An authorization granted by a town meeting, city council or other legislative body to expend money and incur obligations for specific public purposes. An appropriation is usually limited in amount and as to the time period within which it may be expended.

**Bond** – A means to raise money through the issuance of debt. A bond issuer/borrower promises in writing to repay a specified sum of money, alternately referred to as face value, par value or bond principal, to the buyer of the bond on a specified future date (maturity date), together with periodic interest at a specified rate. The term of a bond is always greater than one year.

**Bond Authorization** – The action of town meeting or a city council authorizing the executive branch to raise money through the sale of bonds in a specific amount and for a specific purpose. Once authorized, issuance is by the treasurer upon the signature of the mayor, or selectmen.

**Bond Issue** – The actual sale of the entire, or a portion of, the bond amount authorized by a town meeting or city council.

**Bond Rating (Municipal)** – A credit rating assigned to a municipality to help investors assess the future ability, legal obligation, and willingness of the municipality (bond issuer) to make timely debt service payments. Stated otherwise, a rating helps prospective investors determine the level of risk associated with a given fixed-income investment. Rating agencies, such as Moody's and Standard and Poor's, use rating systems, which designate a letter or a combination of letters and numerals where AAA is the highest rating and C1 is a very low rating.

**Bonds Authorized and Unissued** – Balance of a bond authorization not yet sold. Upon completion or abandonment of a project, any remaining balance of authorized and unissued bonds may not be used for other purposes, but must be rescinded by town meeting or the city council to be removed from community's books.

**Cable Television Franchise Fee** - is an annual fee charged by a local government to a private cable television company as compensation for using public property it owns as right-of-way for its cable.

**Capital Improvements Program** – A blueprint for planning a community's capital expenditures that comprises an annual capital budget and a five-year capital program. It coordinates community planning, fiscal capacity and physical development. While all of the community's needs should be identified in the program, there is a set of criteria that prioritizes the expenditures.

**Capital Outlay** – The exchange of one asset (cash) for another (capital asset), with no ultimate effect on net assets. Also known as "pay as you go," it is the appropriation and use of available cash to fund a capital improvement, as opposed to incurring debt to cover the cost.

**Chapter 90 Highway Funds** – State funds derived from periodic transportation bond authorizations and apportioned to communities for highway projects based on a formula under the provisions of MGL Ch. 90 §34. The Chapter 90 formula comprises three variables: local road mileage (58.33 percent) as certified by the Massachusetts Highway Department (MHD), local employment level (20.83 percent) derived the Department of Employment and Training (DET), and population estimates (20.83 percent) from the US Census Bureau. Local highway projects are approved in advance. Later, on the submission of certified expenditure reports to MHD, communities receive cost reimbursements to the limit of the grant.

**Community Preservation Fund** – A special revenue fund established pursuant to MGL Ch. 44B to receive all monies collected to support a community preservation program, including but not limited to, tax surcharge receipts, proceeds from borrowings, funds received from the Commonwealth, and proceeds from the sale of certain real estate.

**Debt Authorization** – Formal approval by a two thirds vote of town meeting or city council to incur debt, in accordance with procedures stated in MGL Ch. 44 §§1, 2, 3, 4a, 6-15.

**Debt Exclusion** – An action taken by a community through a referendum vote to raise the funds necessary to pay debt service costs for a particular project from the property tax levy, but outside the limits under Proposition 2½. By approving a debt exclusion, a community calculates its annual levy limit under Proposition 2½, then adds the excluded debt service cost. The amount is added to the levy limit for the life of the debt only and may increase the levy above the levy ceiling.

**Debt Service** – The repayment cost, usually stated in annual terms and based on an amortization schedule, of the principal and interest on any particular bond issue.

**Enterprise Fund** – An enterprise fund, authorized by MGL Ch. 44 §53F½, is a separate accounting and financial reporting mechanism for municipal services for which a fee is charged in exchange for goods or services. It allows a community to demonstrate to the public the portion of total costs of a service that is recovered through user charges and the portion that is subsidized by the tax levy, if any. With an enterprise fund, all costs of service delivery--direct, indirect, and capital costs—are identified. This allows the community to recover total service costs through user fees if it chooses. Enterprise accounting also enables communities to reserve the "surplus" or net assets unrestricted generated by the operation of the enterprise rather than closing it out to the general fund at year-end. Services that may be treated as enterprises include, but are not limited to, water, sewer, hospital, and airport services.

**Free Cash (Also Budgetary Fund Balance)** – Remaining, unrestricted funds from operations of the previous fiscal year including unexpended free cash from the previous year, actual receipts in excess of revenue estimates shown on the tax recapitulation sheet, and unspent amounts in budget line-items. Unpaid property taxes and certain deficits reduce the amount that can be certified as free cash. The calculation of free cash is based on the balance sheet as of June 30, which is submitted by the community's auditor, accountant, or comptroller. Important: free cash is not available for appropriation until certified by the Director of Accounts.

**Levy** – The amount a community raises through the property tax. The levy can be any amount up to the levy limit, which is re-established every year in accordance with Proposition 2½ provisions.

**Local Appropriating Authority** – In a town, the town meeting has the power to appropriate funds, including the authorization of debt. In a city, the city council has the power upon the recommendation of the mayor.

**Long-Term Debt** – Community borrowing, or outstanding balance at any given time, involving loans with a maturity date of 12 months or more.

**Net Assets Unrestricted (formerly Retained Earnings)** – An equity account reflecting the accumulated earnings of an enterprise fund that may be used to fund capital improvements, to reimburse the general fund for prior year subsidies, to reduce user charges and to provide for enterprise revenue deficits (operating loss).

**Overlay** (Overlay Reserve or Allowance for Abatements and Exemptions) – An account established annually to fund anticipated property tax abatements, exemptions and uncollected taxes in that year. The overlay reserve need not be funded by the normal appropriation process, but rather is raised on the tax rate recapitulation sheet.

**Overlay Surplus** – Any balance in the overlay account of a given year in excess of the amount remaining to be collected or abated can be transferred into this account. Within ten days of a written request by the chief executive officer of a city or town, the assessors must provide a certification of the excess amount of overlay available to transfer, if any. Overlay surplus may be appropriated for any lawful purpose. At the end of each fiscal year, unused overlay surplus is "closed" to surplus revenue; in other words, it becomes a part of free cash.

**Short-Term Debt** – Outstanding balance, at any given time, on amounts borrowed with a maturity date of 12 months or less.

**Stabilization Fund** – A fund designed to accumulate amounts for capital and other future spending purposes, although it may be appropriated for any lawful purpose (MGL Ch. 40 §5B). Communities may establish one or more stabilization funds for different purposes and may appropriate into them in any year an amount not to exceed ten percent of the prior year's tax levy. The total of all stabilization fund balances shall not exceed ten percent of the community's equalized value, and any interest shall be added to and become a part of the funds. A two-thirds vote of town meeting or city council is required to establish, amend the purpose of, or appropriate money into or from the stabilization fund.

**Capital Improvement Plan**  
**Five (5) Year Plan FY2023-FY2027**  
**Part II**

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027  
SUMMARY**

DEPARTMENT	PROJECT/PROGRAM	FUNDING SOURCE	FY2023	FY2024	FY2025	FY2026	FY2027	Total
<b>Facilities and Grounds</b>								
	Police Station	R&A/Stab. Fund/CPA Funds/Free Cash	130,000	-	-	-	-	130,000
	Library	R&A/Stab. Fund/CPA Funds/Free Cash	100,000	-	-	400,000	-	500,000
	Town Hall and Town Hall Annex	R&A/Stab. Fund/CPA Funds/Free Cash	25,000	-	-	-	-	25,000
	Senior Center	R&A/Stab. Fund/CPA Funds/Free Cash	-	-	-	-	-	-
	Facilities and Grounds Vehicles and Equipment	R&A/Stab. Fund/CPA Funds/Free Cash	135,185	-	-	-	-	135,185
	Recreation Fields and Facilities Improvements	R&A/Stab. Fund/CPA Funds/Free Cash	222,000	150,000	150,000	150,000	-	672,000
<b>Total Facilities and Grounds</b>			<b>612,185</b>	<b>150,000</b>	<b>150,000</b>	<b>550,000</b>	<b>-</b>	<b>1,462,185</b>
<b>Fire Department</b>								
	New Ambulance and Equipment	R&A/Stab. Fund/Free Cash	-	275,000	275,000	-	-	550,000
	North Fire Station Renovation	R&A/Stab. Fund/Free Cash	-	-	1,250,000	-	-	1,250,000
	New Fire Engine	R&A/Stab. Fund/Free Cash	770,000	-	-	790,000	-	1,560,000
	South Fire Station Renovations	R&A/Stab. Fund/Free Cash	25,000	-	-	-	-	25,000
<b>Total Fire Department</b>			<b>795,000</b>	<b>275,000</b>	<b>1,525,000</b>	<b>790,000</b>	<b>-</b>	<b>3,385,000</b>
<b>Public Works Department</b>								
<b>Transportation</b>								
Public Works (General Fund)	Pavement Management Preventative Maintenance	R&A/Stab. Fund/FC/Borrowing/CH90	200,000	200,000	200,000	200,000	200,000	1,000,000
Public Works (General Fund)	Pavement Management Reconstruction/Resurfacing	R&A/Stab. Fund/FC/Borrowing/CH90	575,000	445,000	445,000	445,000	445,000	2,355,000
Public Works (General Fund)	Sidewalks	R&A/Stab. Fund/FC/Borrowing/CH90	650,000	250,000	250,000	250,000	650,000	2,050,000
Public Works (General Fund)	Improvement Projects	R&A/Stab. Fund/FC/Borrowing/CH90	50,000	130,000	65,000	65,000	200,000	510,000
Public Works (General Fund)	Project Development	R&A/Stab. Fund/FC/Borrowing/CH90	-	65,000	100,000	65,000	65,000	295,000
<b>Total Transportation</b>			<b>1,475,000</b>	<b>1,090,000</b>	<b>1,060,000</b>	<b>1,025,000</b>	<b>1,560,000</b>	<b>6,210,000</b>
<b>DPW Facilities/Misc.</b>								
Public Works (General Fund)	DPW/School Maintenance Facility	R&A/Stab. Fund/FC/Borrowing	30,000,000	-	-	-	-	30,000,000
<b>Total DPW Facilities/Misc.</b>			<b>30,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>30,000,000</b>
<b>Public Works Department</b>								
<b>Fleet and Equipment</b>								
Public Works (General Fund)	Vehicles and Equipment	R&A/Stab. Fund/Free Cash	575,000	345,000	423,000	785,000	415,000	2,543,000
<b>Total Fleet and Equipment</b>			<b>575,000</b>	<b>345,000</b>	<b>423,000</b>	<b>785,000</b>	<b>415,000</b>	<b>2,543,000</b>
<b>Grand Total DPW</b>			<b>32,050,000</b>	<b>1,435,000</b>	<b>1,483,000</b>	<b>1,810,000</b>	<b>1,975,000</b>	<b>38,753,000</b>
<b>Grand Total General Fund</b>			<b>33,457,185</b>	<b>1,860,000</b>	<b>3,158,000</b>	<b>3,150,000</b>	<b>1,975,000</b>	<b>43,600,185</b>
<b>Public Works Department</b>								
<b>Sewer Enterprise Fund</b>								
Public Works (Sewer)	Inflow and Infiltration I/I Control	Borrowing/R&A/Retained Earnings	250,000	350,000	350,000	350,000	350,000	1,650,000
Public Works (Sewer)	Sewer Pump Station Improvements	Borrowing/R&A/Retained Earnings	590,000	400,000	250,000	250,000	250,000	1,740,000
Public Works (Sewer)	Collections System Upgrades	Borrowing/R&A/Retained Earnings	-	-	-	-	-	-
Public Works (Sewer)	Fleet and Equipment Replacement Program	R&A/Ent. Fund	145,000	200,000	113,500	43,750	225,000	727,250
<b>Total Sewer Enterprise Fund</b>			<b>985,000</b>	<b>950,000</b>	<b>713,500</b>	<b>643,750</b>	<b>825,000</b>	<b>4,117,250</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027  
SUMMARY**

<b>DEPARTMENT</b>	<b>PROJECT/PROGRAM</b>	<b>FUNDING SOURCE</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>Total</b>
<b>Public Works Department</b>								
<b>Water Enterprise Fund</b>								
Public Works (Water)	Hydrant Replacement Program	R&A Ent. Fund/Retained Earnings	125,000	125,000	125,000	125,000	125,000	<b>625,000</b>
Public Works (Water)	Water Distribution System Improvements	Borrowing/R&A/Retained Earnings	3,686,981	2,900,000	2,325,000	2,175,000	2,200,000	<b>13,286,981</b>
Public Works (Water)	Water Tank Maint./Upgrades	Borrowing/R&A/Retained Earnings	3,600,000		-	-	-	<b>3,600,000</b>
Public Works (Water)	Fleet and Equipment Replacement Program	R&A Ent. Fund/Retained Earnings	145,000	200,000	113,500	43,750	225,000	<b>727,250</b>
<b>Total Water Enterprise Fund</b>			<b>7,556,981</b>	<b>3,225,000</b>	<b>2,563,500</b>	<b>2,343,750</b>	<b>2,550,000</b>	<b>18,239,231</b>
<b>Public Works Department</b>								
<b>Stormwater Enterprise Fund</b>								
Public Works (Stormwater)	Drains	R&A Ent. Fund/Retained Earnings	950,000	480,000	250,000	650,000	400,000	<b>2,730,000</b>
Public Works (Stormwater)	Stormwater Compliance	R&A Ent. Fund/Retained Earnings	-	-	-	-	-	<b>-</b>
Public Works (Stormwater)	Project Development	R&A Ent. Fund/Retained Earnings	50,000	55,000	165,000	55,000	55,000	<b>380,000</b>
<b>Total Stormwater Enterprise Fund</b>			<b>1,000,000</b>	<b>535,000</b>	<b>415,000</b>	<b>705,000</b>	<b>455,000</b>	<b>3,110,000</b>
<b>Telemedia Department</b>								
<b>Telemedia Enterprise Fund</b>								
Telemedia Department	Town Hall Video Upgrade	R&A Ent. Fund/Retained Earnings	229,500	-	-	-	-	<b>229,500</b>
Telemedia Department	TMHS Studio Upgrade	R&A Ent. Fund/Retained Earnings	-	155,000	-	-	-	<b>155,000</b>
Telemedia Department	Custom Broadcast Flypack	R&A Ent. Fund/Retained Earnings	-	-	55,000	-	-	<b>55,000</b>
Telemedia Department	Broadcast Server Replacement	R&A Ent. Fund/Retained Earnings	-	-	-	72,000	-	<b>72,000</b>
<b>Total Telemedia Enterprise Fund</b>			<b>229,500</b>	<b>155,000</b>	<b>55,000</b>	<b>72,000</b>	<b>-</b>	<b>511,500</b>
<b>Grand Total All Capital Projects Per Year</b>			<b>43,228,666</b>	<b>6,725,000</b>	<b>6,905,000</b>	<b>6,914,500</b>	<b>5,805,000</b>	
<b>Grand Total All Projects All Years</b>								<b>69,578,166</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027**

**GENERAL FUND PROJECTS THAT WILL BE FUNDED BY RAISE AND APPROPRIATE, TRANSFER FROM STABILIZATION FUND, CPA FUNDS OR FREE CASH**

DEPARTMENT	PROJECT/PROGRAM	FY2023	FY2024	FY2025	FY2026	FY2027	Total
<b>Facilities and Grounds</b>							
	Police Station	130,000	-	-	-	-	130,000
	Library	100,000	-	-	400,000	-	500,000
	Town Hall and Town Hall Annex	25,000	-	-	-	-	25,000
	Senior Center	-	-	-	-	-	-
	Facilities and Grounds Vehicles and Equipment	135,185	-	-	-	-	135,185
	Recreation Fields and Facilities Improvements	222,000	150,000	150,000	150,000	-	672,000
<b>Total Facilities and Grounds</b>		<b>612,185</b>	<b>150,000</b>	<b>150,000</b>	<b>550,000</b>	<b>-</b>	<b>1,462,185</b>
<b>Fire Department</b>							
	New Ambulance and Equipment	-	275,000	275,000	-	-	550,000
	North Fire Station Renovation	-	-	1,250,000	-	-	1,250,000
	New Fire Engine	770,000	-	-	790,000	-	1,560,000
	South Fire Station Renovations	25,000	-	-	-	-	25,000
<b>Total Fire Department</b>		<b>795,000</b>	<b>275,000</b>	<b>1,525,000</b>	<b>790,000</b>	<b>-</b>	<b>3,385,000</b>
<b>Public Works Department</b>							
<b>Transportation</b>							
Public Works (General Fund)	Pavement Management Preventative Maintenance	-	-	-	-	-	-
Public Works (General Fund)	Pavement Management Reconstruction/Resurfacing	-	-	-	-	-	-
Public Works (General Fund)	Sidewalks	250,000	250,000	250,000	250,000	250,000	1,250,000
Public Works (General Fund)	Improvement Projects	-	-	-	-	-	-
Public Works (General Fund)	Project Development	-	-	-	-	-	-
<b>Total Transportation</b>		<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>250,000</b>	<b>1,250,000</b>
<b>DPW Facilities/Misc.</b>							
Public Works (General Fund)	DPW/School Maintenance Facility	5,000,000	-	-	-	-	5,000,000
<b>Total DPW Facilities/Misc.</b>		<b>5,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>5,000,000</b>
<b>Public Works Department</b>							
<b>Fleet and Equipment</b>							
Public Works (General Fund)	Vehicles and Equipment	575,000	345,000	423,000	785,000	415,000	2,543,000
<b>Total Fleet and Equipment</b>		<b>575,000</b>	<b>345,000</b>	<b>423,000</b>	<b>785,000</b>	<b>415,000</b>	<b>2,543,000</b>
<b>Total DPW</b>		<b>825,000</b>	<b>595,000</b>	<b>673,000</b>	<b>1,035,000</b>	<b>665,000</b>	<b>3,793,000</b>
<b>Grand Total General Fund</b>		<b>2,232,185</b>	<b>1,020,000</b>	<b>2,348,000</b>	<b>2,375,000</b>	<b>665,000</b>	<b>8,640,185</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027**

**PROJECTS FUNDED BY CHAPTER 90, OTHER MA HIGHWAY PROGRAMS AND VARIOUS STATE AND PRIVATE GRANTS**

<b>DEPARTMENT</b>	<b>PROJECT/PROGRAM</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>Total</b>
<b>Public Works Department</b>							
<b>Transportation</b>							
Public Works (General Fund)	Pavement Management Preventative Maintenance	200,000	200,000	200,000	200,000	200,000	<b>1,000,000</b>
Public Works (General Fund)	Pavement Management Reconstruction/Resurfacing	575,000	445,000	445,000	445,000	445,000	<b>2,355,000</b>
Public Works (General Fund)	Sidewalks	400,000	-	-	-	400,000	<b>800,000</b>
Public Works (General Fund)	Improvement Projects	50,000	130,000	65,000	65,000	200,000	<b>510,000</b>
Public Works (General Fund)	Project Development	-	65,000	100,000	65,000	65,000	<b>295,000</b>
<b>Total Transportation</b>		<b>1,225,000</b>	<b>840,000</b>	<b>810,000</b>	<b>775,000</b>	<b>1,310,000</b>	<b>4,960,000</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027**

**ENTERPRISE FUND PROJECTS THAT WILL BE FUNDED BY RAISE AND APPROPRIATE, RETAINED EARNINGS OR ENTERPRISE STABILIZATION FUND**

DEPARTMENT	PROJECT/PROGRAM	FY2023	FY2024	FY2025	FY2026	FY2027	Total
<b>Public Works Department</b>							
<b>Sewer Enterprise Fund</b>							
Public Works (Sewer)	Inflow and Infiltration I/I Control	250,000	350,000	350,000	350,000	350,000	<b>1,650,000</b>
Public Works (Sewer)	Sewer Pump Station Improvements	590,000	400,000	250,000	250,000	250,000	<b>1,740,000</b>
Public Works (Sewer)	Collections System Upgrades	-	-	-	-	-	-
Public Works (Sewer)	Fleet and Equipment Replacement Program	145,000	200,000	113,500	43,750	225,000	<b>727,250</b>
<b>Total Sewer Enterprise Fund</b>		<b>985,000</b>	<b>950,000</b>	<b>713,500</b>	<b>643,750</b>	<b>825,000</b>	<b>4,117,250</b>

<b>Public Works Department</b>							
<b>Water Enterprise Fund</b>							
Public Works (Water)	Hydrant Replacement Program	125,000	125,000	125,000	125,000	125,000	<b>625,000</b>
Public Works (Water)	Water Distribution System Improvements	<b>3,686,981</b>	<b>2,900,000</b>	75,000	75,000	100,000	<b>6,836,981</b>
Public Works (Water)	Water Tank Maint./Upgrades	1,800,000	-	-	-	-	<b>1,800,000</b>
Public Works (Water)	Fleet and Equipment Replacement Program	145,000	200,000	113,500	43,750	225,000	<b>727,250</b>
<b>Total Water Enterprise Fund</b>		<b>5,756,981</b>	<b>3,225,000</b>	<b>313,500</b>	<b>243,750</b>	<b>450,000</b>	<b>9,989,231</b>

<b>Public Works Department</b>							
<b>Stormwater Enterprise Fund</b>							
Public Works (Stormwater)	Drains	950,000	480,000	250,000	650,000	400,000	<b>2,730,000</b>
Public Works (Stormwater)	Stormwater Compliance	-	-	-	-	-	-
Public Works (Stormwater)	Project Development	50,000	55,000	165,000	55,000	55,000	<b>380,000</b>
<b>Total Stormwater and Drainage</b>		<b>1,000,000</b>	<b>535,000</b>	<b>415,000</b>	<b>705,000</b>	<b>455,000</b>	<b>3,110,000</b>

<b>Telemedia Department</b>							
<b>Telemedia Enterprise Fund</b>							
Telemedia Department	Town Hall Video Upgrade	229,500	-	-	-	-	<b>229,500</b>
Telemedia Department	TMHS Studio Upgrade	-	155,000	-	-	-	<b>155,000</b>
Telemedia Department	Custom Broadcast Flypack	-	-	55,000	-	-	<b>55,000</b>
Telemedia Department	Broadcast Server Replacement	-	-	-	72,000	-	<b>72,000</b>
<b>Total Telemedia Enterprise Fund</b>		<b>229,500</b>	<b>155,000</b>	<b>55,000</b>	<b>72,000</b>	-	<b>511,500</b>

<b>Grand Total Per Year</b>		<b>7,971,481</b>	<b>4,865,000</b>	<b>1,497,000</b>	<b>1,664,500</b>	<b>1,730,000</b>	
-----------------------------	--	------------------	------------------	------------------	------------------	------------------	--

<b>Grand Total All Projects All Years</b>							<b>17,727,981</b>
---	--	--	--	--	--	--	-------------------

*Bold and Italics in Water is ARPA funded Projects and existing funds for Water Meters.*

*Bold and Italics in Stormwater includes 500,000 in a MassDOT Grant for Bayberry Lane Culvert.*

**GENERAL FUND DEBT**

**GENERAL FUND CAPITAL PROJECTS TO BE APPROPRIATED THROUGH BORROWING**

<b>FISCAL YEARS 2023-2027</b>									
	<b>Amount</b>	<b>Debt Term</b>	<b>Interest Rate</b>	<b>FY2022</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>
<b>FISCAL YEAR 2023 CAPITAL PROJECTS</b>									
DPW/School Maintenance Facility	25,000,000	20	3.1%	1,589,178	2,093,750	2,031,250	1,968,750	1,906,250	
<b>TOTAL FY23 Debt</b>				<b>1,589,178</b>	<b>2,093,750</b>	<b>2,031,250</b>	<b>1,968,750</b>	<b>1,906,250</b>	
<b>FISCAL YEAR 2024 CAPITAL PROJECTS</b>									
<b>TOTAL FY24 Debt</b>				-					
<b>FISCAL YEAR 2025 CAPITAL PROJECTS</b>									
<b>TOTAL FY25 Debt</b>	-			-	-	-	-	-	-
<b>FISCAL YEAR 2026 CAPITAL PROJECTS</b>									
<b>TOTAL FY26 Debt</b>	-			-					
<b>FISCAL YEAR 2027 CAPITAL PROJECTS</b>									
<b>TOTAL FY27 Debt</b>	-			-	-	-	-	-	-
Total New Exempt Debt				-	-	-	-	-	-
Total Existing Exempt Debt				12,042,522	11,524,944	11,304,069	11,036,819	10,475,863	
<b>Total All Exempt Debt</b>				<b>12,042,522</b>	<b>11,524,944</b>	<b>11,304,069</b>	<b>11,036,819</b>	<b>10,475,863</b>	
Increase Over Previous Fiscal Year Debt Service					(517,578)	(220,875)	(267,250)	(560,956)	
Total New Non-Exempt Debt				1,589,178	2,093,750	2,031,250	1,968,750	1,906,250	
Total Existing Non Exempt Debt				308,731	288,281	278,031	267,781	259,581	
<b>Total All Non-Exempt Debt</b>				<b>1,897,909</b>	<b>2,382,031</b>	<b>2,309,281</b>	<b>2,236,531</b>	<b>2,165,831</b>	
Increase Over Previous Fiscal Year Debt Service					2,073,300	2,000,550	1,948,250	1,887,800	
Total New CPA Existing Debt				-	-	-	-	-	
Total CPA Existing Debt				340,400	328,900	317,400	305,900	300,438	
<b>Total All CPA Debt</b>				<b>340,400</b>	<b>328,900</b>	<b>317,400</b>	<b>305,900</b>	<b>300,438</b>	
Increase Over Previous Fiscal Year Debt Service				340,400	(11,500)	(23,000)	(23,000)	(16,963)	
<b>Grand Total All Debt</b>				<b>14,280,830</b>	<b>14,235,875</b>	<b>13,930,750</b>	<b>13,579,250</b>	<b>12,942,131</b>	
Increase Over Previous Fiscal Year Debt Service				14,280,830	(44,955)	(305,125)	(351,500)	(637,119)	

**WATER ENTERPRISE FUND DEBT**

<b>CAPITAL PROJECT WATER ENTERPRISE FUNDS TO BE APPROPRIATED THROUGH BORROWING</b>								
<b>FISCAL YEARS 2023-2027</b>								
		<b>Amount</b>	<b>Debt Term</b>	<b>Interest Rate</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>
<b>FISCAL YEAR 2023 CAPITAL PROJECTS</b>								
	Water Tank Maintenance and Upgrades	1,800,000	10	3.1%	235,800	230,220	224,640	219,060
	DPW/School Maintenance Facility	Water share of 25,000,000 (Sewer Enterprise Fund Share will be same amount)			146,877	146,877	146,877	146,877
<b>TOTAL FY23 Debt</b>		<b>1,800,000</b>			<b>382,677</b>	<b>377,097</b>	<b>371,517</b>	<b>365,937</b>
<b>FISCAL YEAR 2024 CAPITAL PROJECTS</b>								
<b>TOTAL FY24 Debt</b>					-	-	-	-
<b>FISCAL YEAR 2025 CAPITAL PROJECTS</b>								
	Water Distribution System Improvements	2,250,000	10	3.1%			294,750	287,775
<b>TOTAL FY25 Debt</b>		<b>2,250,000</b>			-	-	294,750	287,775
<b>FISCAL YEAR 2026 CAPITAL PROJECTS</b>								
	Water Distribution System Improvements	2,100,000	10	3.1%				275,100
<b>TOTAL FY26 Debt</b>		<b>2,100,000</b>						275,100
<b>FISCAL YEAR 2027 CAPITAL PROJECTS</b>								
	Water Distribution System Improvements	2,100,000	10	3.1%		-		
<b>TOTAL FY27 Debt</b>		<b>2,100,000</b>			-	-		

TOTAL ALL NEW DEBT	<b>8,250,000</b>				382,677	377,097	666,267	928,812
TOTAL EXISTING DEBT WATER		<b>FY22</b>	2,364,357		2,191,025	2,136,275	1,926,025	1,694,630
GRAND TOTAL EXISTING AND NEW DEBT SERVICE					2,573,702	2,513,372	2,592,292	2,623,442
INCREASE OVER PREVIOUS FISCAL YEAR'S DEBT SERVICE					209,345	(60,330)	78,920	31,150

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2023-2027  
SUMMARY**

<b>Capital Plan Summary</b>	<b>FY2023</b>	<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>Total</b>
General Fund	33,457,185	1,860,000	3,158,000	3,150,000	1,975,000	43,600,185
Sewer Enterprise Fund	985,000	950,000	713,500	643,750	825,000	4,117,250
Water Enterprise Fund	7,556,981	3,225,000	2,563,500	2,343,750	2,550,000	18,239,231
Stormwater Enterprise Fund	1,000,000	535,000	415,000	705,000	455,000	3,110,000
Telemedia Enterprise Fund	229,500	155,000	55,000	72,000	-	511,500
<b>Total Capital Plan Funded</b>	<b>43,228,666</b>	<b>6,725,000</b>	<b>6,905,000</b>	<b>6,914,500</b>	<b>5,805,000</b>	<b>69,578,166</b>
<b>Annual Capital Improvement Plan Cost</b>						
R&A or Transfer from Stabilization Fund or Free Cash	2,232,185	1,020,000	2,348,000	2,375,000	665,000	8,640,185
Chapter 90, Other MA Highway Programs and Grants	1,225,000	840,000	810,000	775,000	1,310,000	4,960,000
General Fund Debt Service	1,589,178	2,093,750	2,031,250	1,968,750	1,906,250	9,589,178
R&A or Transfer from Sewer Enterprise Fund	985,000	950,000	713,500	643,750	825,000	4,117,250
R&A or Transfer from Water Enterprise Fund	5,756,981	3,225,000	313,500	243,750	450,000	9,989,231
R&A or Transfer from Stormwater Enterprise Fund	1,000,000	535,000	415,000	705,000	455,000	3,110,000
R&A or Transfer from Telemedia Enterprise Fund	229,500	155,000	55,000	72,000	-	511,500
Water Enterprise Funds Debt Service	382,677	377,097	666,267	928,812	1,184,847	3,539,700
Sewer Enterprise Funds Debt Service (Share of DPW/School Facility)	146,877	146,877	146,877	146,877	146,877	734,385
<b>Total Fiscal Year Cost</b>	<b>13,547,398</b>	<b>9,342,724</b>	<b>7,499,394</b>	<b>7,858,939</b>	<b>6,942,974</b>	<b>44,457,044</b>

**Capital Improvement Plan**  
**Project Narratives**  
**Part III**

# **Facilities and Grounds**



**Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment**

**Project Name:** Tewksbury Police Department Building Improvements **Date:** December 6, 2021

**Submitted By:** Ryan M. Columbus, Chief of Police **Department:** Police Department

**First Year Submission:** Yes **Priority:** 1

**Description of Project:** The Tewksbury Police Station was built in 1996, making it 25 years old. We have done a great job of working to keep up with projects over the years to maintain our building.

**Flooring:** We need to continue to maintain our carpet in the offices this year and hallway. We need to replace the rubber flooring in a stairwell and both women’s and men’s lockers room, these areas have never been replaced.

- Total cost for flooring: \$23,892.00

**Lockers:** We need to replace the lockers in the women’s and men’s locker rooms. They have never been replaced. These lockers are old and rusting out on the bottoms. (97 lockers)

- Total cost for lockers: \$89,401

**Booking and Roll Call:** Both these areas have old desks and woodwork that are from 1996 and need to be replaced. Each of these areas is breaking down.

- Total cost: \$12,430.00

**Justification/Benefit:**

We have a great building, and we need to continue to invest in it to make sure we keep it that way. Ensuring we take on small projects each year will ensure we space out the funds for needs in this area.

**Impact if not completed:**

These areas will continue to decline, and other areas may have needs in the future as well costing the town more money potentially in one fiscal year.

**Timeframe:**

**Replace. Freq:**  
\_\_\_ Years

**Stakeholders:**

**Operating Budget Impact:** None

**Funding Source:** Stabilization Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$125,723	\$0.00	\$0.00	\$0.00	\$0.00	\$125,723
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0
Contingency	\$4,277	\$0.00	\$0.00	\$0.00	\$0.00	\$4,277
<b>Totals</b>	<b>\$130,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$130,000</b>

**Basis of Cost Projection:** Direct quotes with assistance from the Town Facilities Manager.



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

**Project Name:** Facility Upgrades and Improvements -Recreation Facilities and Vehicles and Equipment

**Date:** 1+-27-22

**Submitted By:** Vincent Bomal, Facilities and Grounds Manager

**Department:** Facilities and Grounds

**First Year Submission:** FY2019

**Description of Project:** The Livingston Street Recreation Complex and Frasca Fields are heavily used by youth sports and for Town events. Over the next few years improvements will be needed to ensure the facilities are maintained properly and safe. **Fiscal Year 2023: \$157,000 to resurface and new equipment for the Skateboard Park, (\$30,995 for new ramps and equipment, \$81,332 for new pavement; \$34,956 for sealcoating of pavement and \$9,717 contingency); \$135,185 to purchase CV515 Landscape Dump Truck with sander and plow package, \$30,000 for 15 new benches in the Town Common and \$35,000 for new bleacher at the football at Livingston Street Complex;** Fiscal Year 2024: \$150,000 to upgrade and improve Parking Lot at State Field at Livingston Recreation Complex; Fiscal Year 2025: \$150,000 to upgrade and improve parking lot near Funway Playground at Livingston Recreation Complex; Fiscal Year 2026: \$150,000 upgrade and improve parking lot at the Recreation Center at Livingston Recreation Complex; Fiscal Year 2027: \$150,000 remodel and expand Facilities and Grounds garage/building to include new bay, restrooms, breakroom and office.

**Justification/Benefit:**

Addressing needed improvements and upgrades soon will be more cost effective in the long run and ensure the longer life expectancy for the facilities and insure they are safe. The current lighting is outdated and inefficient. The current drainage is not sufficient and causes the area to flood.

**Impact if not completed:**

Delaying improvements will be more costly and the longer the fields and facilities go without proper maintenance there will be a better chance of larger more costly problems occurring.

**Timeframe:** 6 months

**Replace Freq:** 20 Years

**Stakeholders:** Facilities and Grounds employees and residents who utilize the Recreation fields and facilities.

**Operating Budget Impact:** Less funding will be needed in the Department’s operating budgets for ongoing maintenance.

**Funding Source:** Skate Park and Benches and Bleachers- CPA Funds, Vehicle and Town Hall Annex Stabilization Fund or Free Cash

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
New Vehicle	\$135,185	\$0	\$0	\$0	\$0	\$135,185
Town Common Benches	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Football Field Bleachers	\$35,000					\$35,000
Skate Park Construction	\$116,288	\$150,000	\$150,000	\$150,000	\$150,000	\$716,288
Skate Park Equipment	\$30,995	\$0	\$0	\$0	\$0	\$30,995
Skate Park Contingency	\$9,717	\$0	\$0	\$0	\$0	\$9,717
<b>Totals</b>	<b>\$357,185</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$957,185</b>

**Basis of Cost Projection:** Based Upon Estimates from Director of Facilities and Ground



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

**Project Name:** Facility Upgrades and Improvements -Library

**Date:** 1-27-22

**Submitted By:** Vincent Bomal, Facilities and Grounds Manager

**Department:** Facilities and Grounds

**First Year Submission:** FY2019

**Description of Project:** The Library was built in 1998 and over the next few years will need some interior renovations and upgrades. Fiscal Year 2022 installation of new carpet throughout the first floor including entries and offices. The current carpet is 20 years old; Fiscal Year 2023 new carpet throughout the entire second floor. The current carpet is 20 years old; Fiscal Year 2024 installation of new entry in the Children’s area to provide access to the rear of the building for Children’s Events; Fiscal Year 2025 new roof which will be 25 years old and in need of replacement.

**Justification/Benefit:**

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the building.

**Impact if not completed:**

Delaying improvements will be more costly and the longer the buildings go without proper maintenance there will be a better chance of larger more costly problems occurring.

**Timeframe:** 6 months

**Replace Freq:** 20 Years

**Stakeholders:** Library employees and residents who utilize the building.

**Operating Budget Impact:** Less funding will be needed in the Department’s operating budget for ongoing maintenance. There would be risk of costly emergency repairs if the roof replacement is delayed

**Funding Source:** Tax Levy, Free Cash or Stabilization Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$100,000	\$0	\$0	\$400,000	\$0.00	\$500,000
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	\$100,000	\$0	\$0	\$400,000	\$0	\$500,000

**Basis of Cost Projection:** Based Upon Estimates from Director of Facilities and Ground



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

**Project Name:** Facility Upgrades and Improvements - Town Hall Annex

**Date:** 1-27-22

**Submitted By:** Vincent Bomal, Facilities and Grounds Manager

**Department:** Facilities and Grounds

**First Year Submission:** FY2019

**Description of Project:** The Town Hall Annex was built in 1967 and over the next few years and will need some interior upgrades. In Fiscal Year 2023 new flooring in certain offices, corridors and kitchen area and upgrades to the Restrooms to include upgrade to plumbing, new fixtures, petitions, painting and new title floor.

**Justification/Benefit:**

Addressing needed improvements and upgrades in the near future will be more cost effective in the long run and insure the longer life expectancy for the building.

**Impact if not completed:**

Delaying improvements will be more costly and the longer the buildings go without proper maintenance there will be a better chance of larger more costly problems occurring.

**Timeframe:** 6 months

**Replace Freq:** 20 Years

**Stakeholders:** Town Hall Annex employees and residents who utilize the building.

**Operating Budget Impact:** Less funding will be needed in the Department’s operating budgets for ongoing maintenance.

**Funding Source:** Tax Levy, Free Cash or Stabilization Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,000
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$25,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$25,000</b>

**Basis of Cost Projection:** Based Upon Estimates from Director of Facilities and Ground

# **Fire Department**



**Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment**

**Project Name:** New Fire Engine Pumper

**Date:** 12/3/21

**Submitted By:** Chief Joseph W. Kearns

**Department:** Fire Department

**First Year Submission:** 2021

**Priority:** High

**Description of Project:** Replace the Department’s 2008 Pierce Velocity Protector fire engine with a new fire engine. New vehicle specification will also include a water supply, centrifugal fire pump, and supply and fire attack hose for independent firefighting capabilities. The new fire Engine will be placed at a station to be the primary response truck in that district. The new fire engine will be NFPA 1901 Standard compliant for automotive fire apparatus and will be outfitted with new hose and firefighting equipment.

**Justification/Benefit:** Our Engine 4 will be fifteen years old in 2023. Engine 4 was purchased from a town in Texas to address an immediate need in 2013. This pump was an in-service piece when we bought it. Two Tewksbury E-One Hush fire engines were unexpectedly taken out of service in 2013 due to corrosion and frame rail issues. A third 1994 E-One Hush was taken out of service in 2014 due to mechanical issues that were beyond feasible repair. So, the decision to buy this used piece of apparatus was made. It is a generally accepted fact that fire apparatus, like all types of mechanical devices, have a finite life. How long that is depends on many factors including cost of maintenance, operational function, availability of parts, downtime, and quality of the manufacturer to name a few. Engine 4 is a backup engine; however, it is put in service as and depended upon as a frontline engine during fires and other emergencies where off duty members are called back for apparatus and station coverage. It must also be placed in service to cover apparatus being taken out of service for testing, preventative maintenance, or repairs. On rare occasions apparatus can be out for repair for over one month. On average, our backup engine is placed in frontline service about 25% of the time. A key element in assessing apparatus life span is fire fighter safety; older apparatus do not meet the same safety standards that newer apparatus must meet. This pump was one of the first to be required to meet emissions standards with regeneration of the diesel engine. With this being first generation, we have incurred numerous repair costs to address these requirements.

**Impact if not completed:** The Department will continue to operate and maintain this high maintenance apparatus to the best of our ability. Due to its age, this vehicle needs continued maintenance which results in high costs, both to repair and to locate and install parts which are not always readily accessible.

**Timeframe:** FY23

**Replace. Freq:**

20 Years

**Stakeholders:** Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

**Operating Budget Impact:** Reduced maintenance cost and reduction in likelihood of constant repairs for an apparatus that will continue to increase.

**Funding Source:** Stabilization Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$770,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$770,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$770,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$770,000.00</b>

**Basis of Cost Projection:** Manufacturer Estimate



**Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment**

**Project Name:** South Station Kitchen Renovations

**Date:**12/3/21

**Submitted By:** Chief Joseph W. Kearns

**Department:** Fire

**First Year Submission:** 2017

**Priority:** Medium

**Description of Project:** A renovation of the kitchen cabinets and appliances is needed the South Fire Station. The physical area and structure of the building will not change.

**Justification/Benefit:** The South Fire Station was put into service in 2001 and is currently 21 years old. It meets the current needs of the Fire Department from a size and location point of view and is overall good condition. At the time of construction, several cost saving measures were taken to stay within the allotted budget for the project. One of those cost saving measures was the kitchen cabinetry, fixtures, and appliances. The plumbing fixtures have been replaced as needed; however, the cabinet doors and base structures are showing severe wear with the 24hour use of the building. The appliances were contractor grade purchases and are currently functional. The labor for this project will be provided by members of the Fire Department. Although the building’s fire alarm panel may need modification or upgrade within the next few years, this project will not require upgrades of the fire protection provided it stays within the scope of the proposed work

**Impact if not completed:** The firefighters will continue to use the cabinets and appliances that are in place. The Department will continue to make repairs as needed to maximize life of these original building components

**Timeframe:** FY23

**Replace. Freq:**

25 Years

**Stakeholders:** Firefighters

**Operating Budget Impact:** Reduced maintenance costs, improved functionality. Impact will be much less with Firefighters willing to do install.

**Funding Source:** Stabilization Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$25,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$25,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$25,000.00</b>

**Basis of Cost Projection:** Facilities and Grounds Director received an estimate



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

**Project Name:** New Ambulance and equipment

**Date:** 12-3-21

**Submitted By:** Chief Joseph W. Kearns

**Department:** Fire

**First Year Submission:** 2022

**Priority:** medium

**Description of Project:** Replace 2018 Ford E-450 Horton Ambulance with an ambulance that will continue to meet the needs of the Department and community. The last E-450 Ford Horton ambulance had a new chassis installed. The new ambulance requested for FY2024 will be of new construction and heavy-duty design that will allow for an extended year of front-line service.

**Justification/Benefit:** The ambulance is the most frequently used emergency resources in the Department. They are driven by a variety of people under extreme conditions on a daily basis. Ambulances are prone to mechanical failure and require extensive maintenance as they age. Recent ambulances have reached approximately 75,000 to 80,000 miles in their first 2 years of use as the Town’s primary response ambulance. The new ambulance design will extend the front-line service life of the vehicle by one year. New ambulance regulations will be met through appropriate planning and design specification

**Impact if not completed:** Costly repairs and the potential of break downs during critical emergency responses as these vehicles age. Most service work is covered under factory warranty at no cost the Department when the primary and secondary ambulances are in service. The backup ambulance, the oldest in the fleet, is only placed in service during mass casualty incidents or when one of the primary ambulances require maintenance or repair.

**Timeframe:** FY24 FY25

**Replace. Freq:**

3 Years

**Stakeholders:** Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums, Apartment Complexes & Ambulance Patients.

**Operating Budget Impact:**

**Funding Source:** Stabilization Fund or Free Cash

## Capital Funding Request

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$275,000.00	\$275,000.00	\$0.00	\$0.00	\$550,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	\$0.00	\$275,000.00	\$275,000.00	\$0.00	\$0.00	\$550,000.00

**Basis of Cost Projection:** Manufacturer’s Estimate



**Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment**

**Project Name:** North Fire Station renovations

**Date:** 12-3-21

**Submitted By:** Chief Joseph W. Kearns

**Department:** Fire

**First Year Submission:** 2017

**Priority:** Medium

**Description of Project:** A renovation of the first floor of the North Fire Station and the addition of a second floor above the living quarters. The apparatus bays and footprint of the building will not change. The second floor addition will provide for safer and more functional use of the station by the firefighters assigned there.

**Justification/Benefit:** The North Fire Station was put into service in 1976 and is currently 46 years old. It meets the current needs of the Fire Department from a size and location point of view; however, it does not meet the current building and fire codes nor does it comply with NFPA standards for firefighter health and safety. A renovation and addition will provide the Department with a facility that meets all current building, life safety, and occupational health codes. The facility lacks adequate storage which reduces the functionality and use of the apparatus bays. A facility that provides adequate training, living, community accessibility, and equipment and storage space supports our firefighting personnel and assists the Department in the delivery of excellent services to our community. A renovation of the station utilizes existing Town owned property and will provide for ADA compliance, a public restroom, male and female firefighter showers and accommodations. It will be designed to meet current NFPA Standards for firefighter health and safety and will provide modern life safety features.

**Impact if not completed:** The Fire Department will continue to operate in a building that does not meet safety and building codes. The Town will have to invest in a new roof and heating system in the next several years. The firefighters will continue to operate in the limited space the station provides.

**Timeframe:** FY25

**Replace. Freq:**

50 Years

**Stakeholders:** Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

**Operating Budget Impact:** Reduced maintenance costs, improved flexibility in Departmental function between stations.

**Funding Source:** Stabilization Fund or Free Cash

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$150,000.00	\$0.00	\$0.00	\$150,000.00
Construction	\$0.00	\$0.00	\$1,250,000.00	\$0.00	\$0.00	\$1,250,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,400,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,400,000.00</b>

**Basis of Cost Projection:** Facilities and Grounds Director Estimate



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

**Project Name:** New Fire Engine Pumper

**Date:** 12/3/21

**Submitted By:** Chief Joseph W. Kearns

**Department:** Fire Department

**First Year Submission:** 2021

**Priority:** High

**Description of Project:** Replace the Department’s 2008 Pierce Velocity Protector fire engine with a new fire engine. New vehicle specification will also include a water supply, centrifugal fire pump, and supply and fire attack hose for independent firefighting capabilities. The new fire Engine will be placed at a station to be the primary response truck in that district. The new fire engine will be NFPA 1901 Standard compliant for automotive fire apparatus and will be outfitted with new hose and firefighting equipment.

**Justification/Benefit:** Our Engine 2 will be eighteen years old in 2026. Engine 2 was purchased from a town in Texas to address an immediate need in 2013. This pump was an in service piece when we bought it. Two Tewksbury E-One Hush fire engines were unexpectedly taken out of service in 2013 due to corrosion and frame rail issues. A third 1994 E-One Hush was taken out of service in 2014 due to mechanical issues that were beyond feasible repair. So the decision to buy this used piece of apparatus was made. It is a generally accepted fact that fire apparatus, like all types of mechanical devices, have a finite life. How long that is depends on many factors including cost of maintenance, operational function, availability of parts, downtime, and quality of the manufacturer to name a few. Engine 2 is a backup engine; however, it is put in service as and depended upon as a frontline engine during fires and other emergencies where off duty members are called back for apparatus and station coverage. It must also be placed in service to cover apparatus being taken out of service for testing, preventative maintenance, or repairs. . On rare occasions apparatus can be out for repair for over one month. On average, our backup engine is placed in frontline service about 25% of the time. A key element in assessing apparatus life span is fire fighter safety; older apparatus do not meet the same safety standards that newer apparatus must meet. This pump was one of the first to be required to meet emissions standards with regeneration of the diesel engine. With this being first generation we have encored numerous repair costs to address these requirements.

**Impact if not completed:** The Department will continue to operate and maintain this high maintenance apparatus to the best of our ability. Due to its age, this vehicle needs continued maintenance which results in high costs, both to repair and to locate and install parts which are not always readily accessible.

**Timeframe:** FY26

**Replace. Freq:**

20 Years

**Stakeholders:** Town Residents / Firefighters / Hotels / State Hospital Complex / Condominiums & Apartment Complexes

**Operating Budget Impact:** Reduced maintenance cost and reduction in likelihood of constant repairs for an apparatus that will continue to increase.

**Funding Source:** Stabilization Fund

## Capital Funding Request

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$790,000.00	\$0.00	\$790,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	\$0.00	\$0.00	\$0.00	\$790,000.00	\$0.00	\$790,000.00

**Basis of Cost Projection:** Manufacturer Estimate

# **Telemedia Enterprise**



# Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment

Project Name: Town Hall Video Upgrade Date: 11/09/2021

Project ID Number: \_\_\_\_\_

Revision Date: 11/09/2021

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY21 Priority: FY23, Priority #1

### Description of Project:

Upgrade and replace Town Hall meeting cameras, switcher, enterprise room system and audio equipment. Create virtual interactive system. Improve sound and overall functionality for in-person attendees.

### Justification/Benefit:

Government meeting coverage makes up a large portion of our programming and it is vital to continue to deliver high quality video and audio to our residents. We would like to upgrade Town Hall meeting broadcasts by replacing old and failing equipment and incorporate the latest technology into our workflow. This project will also improve the quality of the meetings for in-person attendees.

### Impact if not completed:

Strong likelihood of current system failure and inability to properly film government meetings and other events located in the meeting hall. We have already seen equipment begin to show signs of failure.

### Timeframe:

Summer/Fall, 2022

### Replace. Freq:

Approx. 8-10 Years

### Stakeholders:

Tewksbury Telemedia Department

### Operating Budget Impact:

Potential yearly subscriptions and/or warranties

### Funding Source:

Telemedia Department Capital Budget, Cable Enterprise Fund

### Capital Funding Request

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$25,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$49,500.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$135,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$229,500.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

### Basis of Cost Projection:

Departmental research and consultant estimate.



**Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects/Equipment**

Project Name: TMHS Studio Upgrade Date: 12/01/2021

Project ID Number: \_\_\_\_\_

Revision Date: 12/01/2021

Submitted By: Brian Dorrington Department: Telemedia

First Year Submission: FY22 Priority: FY24, Priority #1

**Description of Project:**

Upgrade and replace TMHS Studio equipment including switcher, cameras, sound equipment and all other dated or failing equipment.

**Justification/Benefit:**

TMHS Students use their production studio for class and for morning announcements. In addition, residents can create shows using these resources through the Telemedia Department.

**Impact if not completed:**

Strong likelihood of current system failure and inability to create high quality student and resident productions.

**Timeframe:**

Summer, 2023

**Replace. Freq:**

Approx. 6-10 Years

**Stakeholders:**

Tewksbury Telemedia Department

**Operating Budget Impact:**

None

**Funding Source:**

Telemedia Department Capital Budget, Cable Enterprise Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$5,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$20,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$120,000.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	\$0.00	\$155,000.00	\$0.00	\$0.00	\$0.00	\$0.00

**Basis of Cost Projection:**

Departmental research.



**Town of Tewksbury FY2021 - FY2025 Capital Improvements Projects/Equipment**

**Project Name:** Custom Broadcast Flypack **Date:** 12/04/2021

**Project ID Number:** \_\_\_\_\_ **Revision Date:** 12/04/2021

**Submitted By:** Brian Dorrington **Department:** Telemedia

**First Year Submission:** FY21 **Priority:** FY25, Priority #1

**Description of Project:**

Design and build custom mobile flypack.

**Justification/Benefit:**

A flypack is a custom made portable production system that can be outfitted with a switcher, audio mixer, camera controls, monitors and various other broadcast equipment. This compact, yet powerful system, can make filming professional remote multicamera productions easy and effective. A flypack would greatly improve the quality and workflow for producing remote multicamera productions.

**Impact if not completed:**

Lower quality multicamera productions with less efficient workflow.

**Timeframe:**

Fall, 2024

**Replace. Freq:**

Approx. 7-10 Years

**Stakeholders:**

Tewksbury Telemedia Department

**Operating Budget Impact:**

None

**Funding Source:**

Telemedia Department Capital Budget, Cable Enterprise Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$7,000.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$8,000.00	\$0.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$30,000.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$10,000.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	\$0.00	\$0.00	\$55,000.00	\$0.00	\$0.00	\$0.00

**Basis of Cost Projection:**

Departmental research.



**Town of Tewksbury FY2021 - FY2025 Capital Improvements Projects/Equipment**

**Project Name:** Broadcast Server Replacement **Date:** 12/04/2021

**Project ID Number:** \_\_\_\_\_ **Revision Date:** 12/04/2021

**Submitted By:** Brian Dorrington **Department:** Telemedia

**First Year Submission:** FY21 **Priority:** FY26, Priority #1

**Description of Project:**

Upgrade and replace current broadcast server.

**Justification/Benefit:**

Our broadcast server is the most important piece of equipment we own and operate. It stores, plays and records all of our programs. It is recommended to replace a broadcast server every 5 years. This is to ensure that hardware works efficiently and that current technology is up to date.

**Impact if not completed:**

Possibility of system failure which would severely impact all Telemedia Department operations.

**Timeframe:**

Summer, 2024

**Replace. Freq:**

Approx. 5 Years

**Stakeholders:**

Tewksbury Telemedia Department

**Operating Budget Impact:**

None

**Funding Source:**

Telemedia Department Capital Budget, Cable Enterprise Fund

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$4,500.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$7,500.00	\$0.00	\$0.00
Equipment	\$0.00	\$0.00	\$0.00	\$55,000.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$5,000.00	\$0.00	\$0.00
<b>Totals</b>	\$0.00	\$0.00	\$0.00	\$72,000.00	\$0.00	\$0.00

**Basis of Cost Projection:**

Departmental research and previous quotes by manufacturer.

# **DPW General Fund**



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects

Project Name: \_\_\_\_\_ Department of Public Works Building Renovation \_\_\_\_\_ Date: 2/15/2022

Project ID Number: \_\_\_\_\_ Revision Date: \_\_\_\_\_

Submitted By: Brian Gilbert, Supt DPW Department: Public Works Dept Priority: \_\_\_\_\_

First Year Submission:  Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

### Description of Project:

This project seeks to build a new combined DPW and School Maintenance Facility at the current site of the DPW on Whipple Road. The original DPW facility was built in 1962 and was 8,400 square feet. An addition was added in 1980 increasing the footprint to 25,900 total square feet. These structures are still being utilized by the DPW Highway, Forestry, Water, Sewer, Fleet Maintenance, Engineering and Administration Divisions for operations, equipment and vehicle storage, office and storage space. The plan is to modify the existing facility for equipment and vehicle storage and build a new facility on the current site that will house vehicle maintenance, office space, shops and staff support facilities for DPW and School.

### Justification/Benefit:

The DPW facility is (50) years old. An addition was constructed (35) years ago to address the growing needs of the Department for space and storage. However, the facility does not meet the current space needs and functioning of the Department today, resulting in concerns for employee safety and health, care and damage to vehicles and equipment, work efficiencies, storage of tools and supplies and security of the facility. The construction of a new facility will allow for proper storage of equipment, vehicles and materials, improved office space and employee work areas, locker rooms, meeting areas, state of the art Fleet Maintenance garage and a vehicle wash bay for all Town department. A new facility also addresses the need for School Maintenance staff to have shops and storage space from which to operate.

### Impact if not completed:

The building doesn't serve the space, safety and efficiency needs of the DPW's operations, while the physical structure will continue to be susceptible to deterioration, water infiltration and the funding of sunken costs. The School Facility Maintenance operation has had to recently vacate its operational space to make way for the elementary school development on the Ryan School campus without a permanent solution to house their operation. Safety of the staff will continue to be an issue as space is limited and environmental systems need updating. Higher building costs due to the lack of current building system technologies will continue wasteful spending on energy and repairs. Inefficient work processes and procedures will continue, which limit the work schedules of an under-sized staff resource.

### Timeframe:

**Replace. Freq:** 50 Years

A cost per square estimate from other newly constructed DPW facilities (Weston and Sampson) and third party cost estimator will be used to establish a project budget and funding request. Engineering and Design for the new construction is scheduled through the summer of 2022; with a request for appropriation during STM in October, 2022; construction would be scheduled to begin fall of 2022.

### Stakeholders:

Town staff working in the current facility, School Maintenance staff; visitors doing business; Police, Fire and Park departments

### Operating Budget Impact:

Potential cost savings in possible energy reduction; reduced incidence of equipment damage and repair; operational building repair, costs associated with employee injury.

### Cost Analysis:

Funding Source: ● Levy ○ CPA ○ Revolving ○ State Aid ● Water ● Sewer ○ Recreation ○ Private ○ Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$30,000,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$30,000,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$30,000,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$30,000,000.00</b>

Basis of Cost Projection: Consultant's Cost Estimate(s)



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects

**Project Name:** Transportation: Pavement Management, Sidewalks, Project Improvement and Project Development

**Date:** 01/18/2022

**Submitted By:** Brian Gilbert, Director DPW      **Department:** Public Works Dept.    **Priority:**     

**First Year Submission:**        **Phone #:** 978-640-4440      **Email:** bgilbert@tewksbury-ma.gov

### **Description of Project:**

This request proposes the funding of an annual Transportation/Street Improvement Program including preventative maintenance, resurfacing and reconstruction, and sidewalks. As part of this program the Town has established a Complete Streets Policy, which has been evaluated and approved by the Massachusetts Department of Transportation (MADOT). Acceptance of the policy by MADOT enables the Town to be eligible for additional State aid under its Complete Streets program. The Town has established a prioritization plan outlining the roadway improvements projects that will provide safe and accessible options for all modes of travel including walking, biking, transit, and vehicles. Complete Streets project funding has been included in this request, as funding allows.

In FY23 the Town proposes the following roadway treatments: crack-seal of approximately four miles of roadway and resurfacing of various roads based on priorities from the pavement management inventory. Resurfacing projects will include expenses for permitting, catch basin/manhole repair, drain repair, installation of new drains and shoulder/driveway berm installation. Funding for sidewalk installations is also included in this request. Locations and specifications have been established as part of a sidewalk plan, funded in FY18. In FY23 various streets will be resurfaced using Chapter 90 funds based on our five-year paving schedule. Sidewalk construction on Fiske Street and Andover Street is planned, contingent upon receipt of a Complete Streets Grant as well as funding from the General Fund.

### **Justification/Benefit:**

The lack of additional Town funding for a regular street improvement program over many years has resulted in the deterioration of Tewksbury's roads. In the calendar years 2004-2010, the sewer installation project injected approximately \$10,560,000 to improve many of the Town roads. However, there remained numerous miles of roads in disrepair and those in need of preventative maintenance. At this time roads treated during the sewer project are showing signs of distress. The large number of roads currently in need of preventative maintenance will begin to degrade into poor condition if regular investment and preventative maintenance practices are withheld. Roads more recently treated should be maintained through crack-sealing techniques to gain the greatest return on investment while avoiding higher costs for repair. Continued funding through State programs and Town accounts will increase the quality and safety of Tewksbury's roads as well as provide accommodations for various modes of transportation. Preventative measures will prolong road life cycles while elevating the quality of roads without having to rehabilitate at higher unit costs.

### **Impact if not completed:**

The life cycle of roads will be reduced, road surface quality will diminish, operating and resurfacing costs increase, safety is diminished, while damage to private property escalates.

### **Timeframe:**

Projects are included on the attached spreadsheet FY23-FY27.

**Replacement Freq.:** 5-25 Years

### **Stakeholders:**

Taxpayers, the motoring public, residents near the area that utilize these roads the most, and Highway/Forestry Division

### **Operating Budget Impact:**

Engineering Division, Highway/Forestry Division and Water & Sewer Division personnel time will be required to support the projects to be completed.

### **Cost Analysis:**

**Funding Source:**    ● Levy    ○ CPA    ○ Revolving    ● State Aid    ○ Water    ○ Sewer    ○ Recreation    ○ Private    ○ Other

### **Capital Funding Request**

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$65,000.00	\$100,000.00	\$65,000.00	\$65,000.00	\$295,000.00
Construction	\$1,475,000.00	\$1,025,000.00	\$960,000.00	\$960,000.00	\$1,495,000.00	\$5,915,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$1,475,000.00</b>	<b>\$1,090,000.00</b>	<b>\$1,060,000.00</b>	<b>\$1,025,000.00</b>	<b>\$1,560,000.00</b>	<b>\$6,210,000.00</b>

**Basis of Cost Projection:** Cost project based on current bid pricing.

**Transportation  
5-Year Capital Cost**

Budget Cost Elements	FY23	FY24	FY25	FY26	FY27	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$0.00	\$65,000.00	\$100,000.00	\$65,000.00	\$65,000.00	\$295,000.00
Construction	\$1,475,000.00	\$1,025,000.00	\$960,000.00	\$960,000.00	\$1,495,000.00	\$5,915,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$1,475,000.00</b>	<b>\$1,090,000.00</b>	<b>\$1,060,000.00</b>	<b>\$1,025,000.00</b>	<b>\$1,560,000.00</b>	<b>\$6,210,000.00</b>

Fiscal Year Program	Location	Cost	Fund
<b>FY23 Cal 2022- 2023</b>			
<b>Road Preventative Maintenance</b>			
Crack sealing	Various locations based on PCI Report	\$50,000.00	Chapter 90
Nova Chip	Various locations based on PCI Report: attachment "Streets to be Paved"	\$150,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Reconstruction/Resurfacing</b>			
Grind and Overlay	Various locations based on PCI Report: attachment "Streets to be Paved"	\$275,000.00	Chapter 90
Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$300,000.00	Chapter 90
		<b>\$575,000.00</b>	
<b>Sidewalks/Complete Streets</b>			
Complete Streets Construction	Fiske Street and Andover Street Sidewalk		Dependent on MADOT grant award
Sidewalk Construction		\$400,000.00	Complete Streets Grant
		\$250,000.00	General Fund
		<b>\$650,000.00</b>	
<b>Improvement Projects</b>			
	Paving Bayberry Ln Culvert Improvement	\$50,000.00	Chapter 90
<b>Project Development</b>			
		<b>\$0.00</b>	
	<b>Total Cost FY23</b>	<b>\$1,475,000.00</b>	
<b>FY24 Cal 2023-2024</b>			
<b>Road Preventative Maintenance</b>			
Crack sealing	Various locations based on PCI Report	\$50,000.00	Chapter 90
Nova Chip	Various locations based on PCI Report: attachment "Streets to be Paved"	\$150,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Reconstruction/Resurfacing</b>			
Grind and Overlay	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter 90
Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter 90
		<b>\$445,000.00</b>	
<b>Sidewalks/Complete Streets</b>			
Sidewalk Construction	Whipple Road Phase I	\$250,000.00	General Fund
		<b>\$250,000.00</b>	
<b>Improvement Projects</b>			
Intersection Improvements	Whipple Road and Chandler Street Intersection	\$65,000.00	Chapter 90
Signal Improvements	North Street at Andover Street Intersection	\$65,000.00	Chapter 90
		<b>\$130,000.00</b>	
<b>Project Development</b>			
Sidewalk Design	Lower Chandler Street: Whipple Road to Indian Hill	\$65,000.00	Chapter 90
		<b>\$65,000.00</b>	
	<b>Total Cost FY24</b>	<b>\$1,090,000.00</b>	
<b>FY25 Cal 2024-2025</b>			
<b>Road Preventative Maintenance</b>			
Crack sealing	Various locations based on PCI Report	\$50,000.00	Chapter 90
Nova Chip	Various locations based on PCI Report: attachment "Streets to be Paved"	\$150,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Reconstruction/Resurfacing</b>			
Grind and Overlay	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter 90
Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter 90
		<b>\$445,000.00</b>	
<b>Sidewalks/Complete Streets</b>			
Sidewalk Construction	Whipple Road Phase II	\$250,000.00	General Fund
		<b>\$250,000.00</b>	
<b>Improvement Projects</b>			
Signal Improvements	Andover Street at Ames Pond Drive	\$65,000.00	Chapter 90
		<b>\$65,000.00</b>	
<b>Project Development</b>			
Sidewalk Design	Upper North Street and Colonial Drive	\$100,000.00	Chapter 90
		<b>\$100,000.00</b>	
	<b>Total Cost FY25</b>	<b>\$1,060,000.00</b>	

**Transportation  
5-Year Capital Cost**

Budget Cost Elements	FY23	FY24	FY25	FY26	FY27	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$0.00	\$65,000.00	\$100,000.00	\$65,000.00	\$65,000.00	\$295,000.00
Construction	\$1,475,000.00	\$1,025,000.00	\$960,000.00	\$960,000.00	\$1,495,000.00	\$5,915,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$1,475,000.00</b>	<b>\$1,090,000.00</b>	<b>\$1,060,000.00</b>	<b>\$1,025,000.00</b>	<b>\$1,560,000.00</b>	<b>\$6,210,000.00</b>

Fiscal Year Program	Location	Cost	Fund
<b>FY26 Cal 2025-2026</b>			
<b>Road Preventative Maintenance</b>			
Crack sealing	Various locations based on PCI Report	\$50,000.00	Chapter 90
Nova Chip	Various locations based on PCI Report: attachment "Streets to be Paved"	\$150,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Reconstruction/Resurfacing</b>			
Grind and Overlay	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter 90
Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter 90
		<b>\$445,000.00</b>	
<b>Sidewalks/Complete Streets</b>			
Sidewalk Construction	Whipple Road Phase III	\$250,000.00	General Fund
		<b>\$250,000.00</b>	
<b>Improvement Projects</b>			
Signal Improvements	Locations TBD	\$65,000.00	Chapter 90
		<b>\$65,000.00</b>	
<b>Project Development</b>			
Sidewalk Design	Livingston Street: East Street to Pond View Lane - Phase I & II	\$65,000.00	Chapter 90
		<b>\$65,000.00</b>	
		<b>Total Cost FY26</b>	<b>\$1,025,000.00</b>

<b>FY27 Cal 2026-2027</b>			
<b>Road Preventative Maintenance</b>			
Crack sealing	Various locations based on PCI Report	\$50,000.00	Chapter 90
Nova Chip	Various locations based on PCI Report: attachment "Streets to be Paved"	\$150,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Reconstruction/Resurfacing</b>			
Grind and Overlay	Various locations based on PCI Report: attachment "Streets to be Paved"	\$175,000.00	Chapter 90
Full-Depth Reconstruction	Various locations based on PCI Report: attachment "Streets to be Paved"	\$270,000.00	Chapter 90
		<b>\$445,000.00</b>	
<b>Sidewalks/Complete Streets</b>			
Complete Streets Construction	Upper North Street and Colonial Drive	\$400,000.00	Complete Streets Grant
Sidewalk Construction	Lower Chandler: Indian Ridge to Whipple Road	\$250,000.00	General Fund
		<b>\$650,000.00</b>	
<b>Improvement Projects</b>			
Intersection Improvements	Main Street at Pleasant Street and East Street - Non-Participating Agreement	\$200,000.00	Chapter 90
		<b>\$200,000.00</b>	
<b>Project Development</b>			
Sidewalk Design	North Street: Frasca Field to I-495	\$65,000.00	Chapter 90
		<b>\$65,000.00</b>	
		<b>Total Cost FY26</b>	<b>\$1,560,000.00</b>



# Town of Tewksbury FY2022 - FY2026 Capital Improvements Projects

Project Name: Equipment Replacement Program

Date: 2/9/2022

Project ID Number: \_\_\_\_\_

Revision Date: \_\_\_\_\_

Submitted By: Brian Gilbert, Director of Public Works Department: Public Works Dept Priority: \_\_\_\_\_

First Year Submission:  Phone #: \_\_\_\_\_ Email: \_\_\_\_\_

### Description of Project:

The Department of Public Works has an inventory of (110) pieces of DPW/Utility equipment, not inclusive of all smaller motorized equipment and attachments. The current replacement value of all rolling stock and specialized equipment is approximately \$5 million+. Each piece of equipment is inventoried with replacement intervals vary from 5-25 years which are based on recommendations by the American Public Works Association member organizations.

The selection process of vehicles to be replaced begins with the proposed replacement date. Then each vehicle is assessed as to its remaining useful life, mechanical condition and work requirements. Lastly, each piece of equipment is prioritized for replacement and/or modification.

In FY23 the DPW requests General Fund replacements of the following: replacement of Truck #25 (2006 Ford F-550 Truck); replacement of Truck #55 (1999 Mack Dump Truck) and forestry replacement of Aerial Lift #95 (1989 Skyworker). Also Water and Sewer enterprises, the DPW requests the replacement of Truck #50 (1996 Mack Dump Truck).

### Justification/Benefit:

The DPW's systematic replacement program defines what equipment is expected to be replaced during the next five years, with the intent of preventing any unexpected emergency purchases, lockout-tagout conditions due to safety concerns or loss of service. Annual updates are conducted by the Road Machinery Division and reviewed by the Division's Superintendent and Department's Director.

### Impact if not completed:

The lack of an on-going replacement program and schedule will result in a jumbled inventory and the haphazard replacement of machinery. This could lead to a fleet ineffective in meeting the needs of the work program; budgetary problems if a piece of machinery had to be replaced in an emergency; and personnel safety issues if the machinery was operated beyond its reasonable life. Repair costs will rise due to the extent and scope of repairs for older equipment. Staff time to repair other stakeholder department's vehicles will see delays and increased costs for out-sourcing. Tasks/programs may go unaddressed if equipment fails to operate such as Street-sweeping, drain repair, sidewalk plowing etc.

### Timeframe:

This is an on-going capital request

### Replace. Freq:

5-25 Years

### Stakeholders:

DPW operations staff and mechanics; Police, Fire, Park and Recreation Departments; Residents, businesses and Town government agencies dependent on DPW for snow removal, while some of the same Departments rely on DPW mechanics for repairs.

### Operating Budget Impact:

Replacement of older vehicles will reduce repair costs within the operating budget. In addition, costs due to downtime, i.e. during snow plowing events will result in a reduction in overall storm event cost. Departments that depend on DPW mechanics to repair their vehicles will see delays in equipment being serviced and increased costs due to the postponement of those repairs. Outsourcing repair of all vehicles will increase costs across departments.

### Cost Analysis:

Funding Source:  Levy  CPA  Revolving  State Aid  Water  Sewer  Recreation  Private  Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Equipment	\$865,000.00	\$745,000.00	\$650,000.00	\$872,500.00	\$865,000.00	\$3,997,500.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$865,000.00</b>	<b>\$745,000.00</b>	<b>\$650,000.00</b>	<b>\$872,500.00</b>	<b>\$865,000.00</b>	<b>\$3,997,500.00</b>

Basis of Cost Projection: Vendor Estimates

**Fleet/Equipment**  
5-year Project Cost Estimates

Budget Cost Elements	2023	2024	2025	2026	2027	TOTAL
Site Acquisition						
Design/Eng.						
Construction						
Equipment	\$865,000.00	\$745,000.00	\$650,000.00	\$872,500.00	\$865,000.00	\$3,997,500.00

Fiscal Year	Veh #	Year	Description Of Purchase	Department	Cost GenFund	Cost Enterprise	Comments
<b>FY2023</b>							
	55	1999	6-Wheel Dump w/plow package	Highway	\$230,000.00		Replace w/Same
		2000	6-8 Yard sander (slide-in)	Snow	\$20,000.00		Replace w/Same
	25	2006	Replace F-550 w/plow package	Highway	\$110,000.00		Replace w/Utility model
					<b>\$360,000.00</b>		
	95	1989	Aerial Lift Bucket Truck	Forestry	\$215,000.00		Replace with Aerial Crawler for Road / Backyards
					<b>\$215,000.00</b>		
					<b>Sub-total DPW: \$575,000.00</b>		
	16	2013	Water Ford F-150	Water/Sewer		\$60,000.00	Replace w/Same
	50	1996	6-Wheel Dump w/plow package	Water/Sewer		\$230,000.00	Replace w/Same
					<b>Sub-total Water/Sewer:</b>	<b>\$290,000.00</b>	
				<b>Total FY23</b>	<b>\$865,000.00</b>		
<b>FY2024</b>							
	621	2009	Wheeled Excavator	Highway / W&S	\$125,000.00	\$125,000.00	Look at Shared Excavator / Highway Trade In
			3 Ton Asphalt Hotbox	Highway	\$25,000.00	\$25,000.00	Replace w/Same
					<b>\$150,000.00</b>		
	901	1996	Brush Bandit Chipper	Forestry	\$85,000.00		Replace w/Same (Better / Safer Improvements)
	6	2006	Replace F-350 w/plow package	Forestry	\$110,000.00		Replace w/Utility model
					<b>\$195,000.00</b>		
					<b>Sub-total DPW: \$345,000.00</b>		
	89	2010	10-Wheel Dump w/plow package	Water/Sewer		\$250,000.00	Replace w/Same
					<b>Sub-total Water/Sewer:</b>	<b>\$400,000.00</b>	
				<b>Total FY24</b>	<b>\$745,000.00</b>		
<b>FY2025</b>							
	615	2004	Variable Message Board	Highway / W&S	\$12,500.00	\$12,500.00	Replace w/Same
	616	2004	Variable Message Board	Highway / W&S	\$12,500.00	\$12,500.00	Replace w/Same
	817	2004	Variable Message Board	Highway / W&S	\$12,500.00	\$12,500.00	Replace w/Same
	818	2004	Variable Message Board	Highway / W&S	\$12,500.00	\$12,500.00	Replace w/Same
	60	2006	F-550 Dump w/plow package	Highway	\$100,000.00		Replace w/Same
	608	2002	Asphalt Curb Machine	Highway	\$8,000.00		Replace w/Same
	56	1997	6-Wheel Dump w/plow package	Highway/Snow	\$240,000.00		Replace w/Same
			6-8 Yard sander (slide-in)	Snow	\$25,000.00		Replace w/Same
					<b>Sub-total DPW: \$423,000.00</b>		
	605	1999	Asphalt Roller	Water/Sewer		\$12,000.00	Replace w/Same
	88	2000	F-550 Flat Bed Patch Truck	Water/Sewer		\$100,000.00	Replace w/Dump Body & Plow Package
	801	1999	Compressor	Water/Sewer		\$20,000.00	Replace w/Same
	870	2000	Kohler Trailer Generator	Water/Sewer		\$45,000.00	Replace w/Same
					<b>Sub-total Water/Sewer:</b>	<b>\$227,000.00</b>	
				<b>Total FY25</b>	<b>\$650,000.00</b>		
<b>FY2026</b>							
	22	2008	F-350 Utility Body	Highway	\$75,000.00		Replace w/Same
	53	2005	F-550 Dump w/Snow package	Highway	\$260,000.00		Replace w/Same
		1995	6-8 Yard sander (slide-in)	Snow	\$20,000.00		Replace w/Same
	3	2010	Ford - Expedition SUV	Engineering	\$50,000.00		
					<b>\$405,000.00</b>		
	96	2005	Log Truck	Forestry	\$210,000.00		Replace w/Same
	7	2005	Aerial Lift - Small Cherry Bucket Truck	Forestry	\$170,000.00		Replace w/Same
					<b>\$380,000.00</b>		
					<b>Sub-total DPW: \$785,000.00</b>		
	82	2011	Ford Ranger			\$75,000.00	Replace w/Same (Vehicle Totaled in Accident)
	803	2006	Light Tower			\$12,500.00	Replace w/Same
					<b>Sub-total Water/Sewer:</b>	<b>\$87,500.00</b>	
				<b>Total FY26</b>	<b>\$872,500.00</b>		

**Fleet/Equipment**  
5-year Project Cost Estimates

Budget Cost Elements	2023	2024	2025	2026	2027	TOTAL
Site Acquisition						
Design/Eng.						
Construction						
Equipment	\$865,000.00	\$745,000.00	\$650,000.00	\$872,500.00	\$865,000.00	\$3,997,500.00

Fiscal Year	Veh #	Year	Description Of Purchase	Department	Cost GenFund	Cost Enterprise	Comments
<b>FY2027</b>							
	2	2017	Replace F-350 w/plow package		\$110,000.00		Replace w/Same
	5	2014	Replace F-350 w/plow package		\$110,000.00		Replace w/Same
	61	2007	Replace F-550 Rack Truck w/plow package		\$110,000.00		Replace w/Same
					<b>\$330,000.00</b>		
	902	2006	Brush Bandit Chipper	Forestry	\$85,000.00		Replace w/Same (Better / Safer Improvements)
					<b>\$85,000.00</b>		
					<b>Sub-total DPW: \$415,000.00</b>		
	81	2003	Sterling Vac Truck	Water/Sewer		\$450,000.00	Replace w/Same
						<b>\$450,000.00</b>	
					<b>Sub-total Water/Sewer</b>		
					<b>Total FY27</b>		
					<b>\$865,000.00</b>		

# **DPW Stormwater Enterprise**



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment

Project Name: Drain/Stormwater System Management Date: 1/18/2022  
 Project ID Number: \_\_\_\_\_ Revision Date: \_\_\_\_\_  
 Submitted By: Brian Gilbert, Director DPW Department: Public Works Department  
 First Year Submission: \_\_\_\_\_ Priority: \_\_\_\_\_

**Description of Project:**

This program is an annual request to improve the Town’s drainage system by repairing failed drainage structures and culverts, and the installation of new drainage facilities where existing drainage problems endanger public safety and/or private property. Staff plan, coordinate, and perform drainage improvements in conjunction with the Transportation Improvement Program to minimize disruptions and inconveniences and to reduce overall program expenditures. Additional drain repairs for incidental/minor upkeep have been included in the Town’s operational budget.

The capital construction projects identified for this program in Fiscal Year (FY23) include replacement of the culverts on Bayberry Lane and a town-wide culvert condition assessment.

**Justification/Benefit:**

Improving failed drainage infrastructure throughout Town eliminates a potential public health and safety hazard while efficiently and effectively managing the stormwater runoff for these areas in Town. In addition, the cost to maintain and repair infrastructure elements is substantially less compared to a complete rebuilding of a failed structure. These improvements help to maintain compliance with EPA’s MS4 NPDES Phase 2 Stormwater permit to the maximum extent possible with the budget available. Flooded roadways also impact private property and pose potential safety risks.

**Impact if not completed:**

Potential fines and penalties from the EPA for failing to comply with the MS4 NPDES Phase 2 Stormwater permit, loss in function of the drain systems with increase difficulty to minimize and/or eliminate flooding and damage to public and private property, danger to public travel, increased mosquito breeding causing nuisance as well as health hazards, increased exposure for infiltration into sewer collection systems, deterioration of the roadway surface accelerated by the effect of poorly drained roadways and, in some cases, culverts that are in poor condition have a high rate for failure which would cause the roadway to collapse and result in full road closure, delayed travel times and unsafe conditions for all vehicle travel.

**Timeframe:**

Projects are included on the attached spreadsheet inclusive of Fiscal Year’s 2023-2027.

**Replace. Freq.:**

25 Years

**Stakeholders:**

The Town, as a MS4 official for the NPDES Phase 2 Stormwater permit, and residents that live near the roadways and water bodies prone to stormwater flooding; taxpayers, the motoring public, and Highway/Forestry Division

**Operating Budget Impact:**

Engineering Division and Highway/Forestry Division personnel time will be required to support the projects to be completed. Repairs will eliminate the cost for expensive emergency repairs, formation of potholes, scouring of the roadway edge, all of which result in the loss of production efficiency and increased supply costs.

**Funding Source:** Stormwater Enterprise, MassDOT Small Bridge Grant

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$50,000.00	\$55,000.00	\$165,000.00	\$55,000.00	\$55,000.00	\$380,000.00
Construction	\$950,000.00	\$480,000.00	\$250,000.00	\$650,000.00	\$400,000.00	\$2,730,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$1,000,000.00</b>	<b>\$535,000.00</b>	<b>\$415,000.00</b>	<b>\$705,000.00</b>	<b>\$455,000.00</b>	<b>\$3,110,000.00</b>

**Basis of Cost Projection:**

Cost project based on engineer’s estimate; does not include cost for MS4 Stormwater permit projects

**Drain-Stormwater  
5-Year Project Cost Estimates**

Budget Cost Elements	FY23	FY24	FY25	FY26	FY27	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$50,000.00	\$55,000.00	\$165,000.00	\$55,000.00	\$55,000.00	\$380,000.00
Construction	\$950,000.00	\$480,000.00	\$250,000.00	\$650,000.00	\$400,000.00	\$2,730,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$1,000,000.00</b>	<b>\$535,000.00</b>	<b>\$415,000.00</b>	<b>\$705,000.00</b>	<b>\$455,000.00</b>	<b>\$3,110,000.00</b>

Fiscal Year	Program	Location	Cost	Fund
<b>FY23</b>	<b>Cal 2022 - 2023</b>			
<b>Drains</b>				
Culvert Replacement	Bayberry Lane Culvert	Construction	\$450,000.00 \$500,000.00 <b>\$950,000.00</b>	SW Enterprise DOT Grant
<b>Stormwater Compliance</b>				
<b>\$0.00</b>				
<b>Project Development and Permitting</b>				
Culvert Condition Assessment	Conduct a Town wide assessment to prioritized culverts	Engineering Services	\$50,000.00 <b>\$50,000.00</b>	SW Enterprise
<b>Total Cost FY23</b>				<b>\$1,000,000.00</b>
<b>FY24</b>	<b>Cal 2023-2024</b>			
<b>Drains</b>				
Culvert Replacement	Pringle Street Culvert	Construction	\$280,000.00	SW Enterprise
Drainage System Improvement	Woburn Street and Felker Street neighborhood	Construction	\$200,000.00	SW Enterprise
				<b>\$480,000.00</b>
<b>Stormwater Compliance</b>				
<b>\$0.00</b>				
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Van Buren Road drainage system	Engineering Services	\$55,000.00 <b>\$55,000.00</b>	SW Enterprise
<b>Total Cost FY24</b>				<b>\$535,000.00</b>
<b>FY25</b>	<b>Cal 2024-2025</b>			
<b>Drains</b>				
Drainage System Improvement	Van Buren Road drainage system	Construction	\$250,000.00 <b>\$250,000.00</b>	SW Enterprise
<b>Stormwater Compliance</b>				
<b>\$0.00</b>				
<b>Project Development and Permitting</b>				
Headwall and Culvert Repair Design	Upper Pinnacle Street headwall at Dunvegan Road	Engineering Services	\$80,000.00	SW Enterprise
Drainage System Improvement Design	Tewmack Terrace - Wolcott Street to Arkansas Road	Engineering Services	\$35,000.00	SW Enterprise
Headwall and Culvert Repair	Andover Street at Hood Road	Engineering Services	\$50,000.00	SW Enterprise
				<b>\$165,000.00</b>
<b>Total Cost FY25</b>				<b>\$415,000.00</b>
<b>FY26</b>	<b>Cal 2025-2026</b>			
<b>Drains</b>				
Drainage System Improvement	Tewmack Terrace - Wolcott Street to Arkansas Road	Construction	\$300,000.00	SW Enterprise
Headwall and Culvert Repair	Upper Pinnacle Street headwall at Dunvegan Road	Construction	\$350,000.00	
				<b>\$650,000.00</b>
<b>Stormwater Compliance</b>				
<b>\$0.00</b>				
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Location based on Stormwater Assessment and Resident concerns	Engineering Services	\$55,000.00 <b>\$55,000.00</b>	SW Enterprise
<b>Total Cost FY26</b>				<b>\$705,000.00</b>
<b>FY27</b>	<b>Cal 2026-2027</b>			
<b>Drains</b>				
Headwall and Culvert Repair	Andover Street at Hood Road	Construction	\$200,000.00	SW Enterprise
Drainage System Improvement	Location based on Stormwater Assessment and Resident concerns	Construction	\$200,000.00	SW Enterprise
				<b>\$400,000.00</b>
<b>Stormwater Compliance</b>				
<b>\$0.00</b>				
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Location based on Stormwater Assessment and Resident concerns	Engineering Services	\$55,000.00 <b>\$55,000.00</b>	SW Enterprise
<b>Total Cost FY27</b>				<b>\$455,000.00</b>

# **DPW Water Enterprise**



**Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects/Equipment**

**Project Name:** Hydrant Replacement Program **Date:** 1/18/23

**Project ID Number:** \_\_\_\_\_ **Revision Date:** \_\_\_\_\_

**Submitted By:** Brian Gilbert, Director of Public Works **Department:** Public Works

**First Year Submission:** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:**

This annual program is intended to replace aging, malfunctioning, and/or out-of-service fire hydrants and to implement the standardization of hydrants throughout Town. The project began in 2006 and was reinstated in 2010 to address a large number of out-of-service hydrants. Since 2010 over 350 hydrants have been replaced.

In 2006, it had been estimated that 600 of the approximate 1,600 hydrants needed replacement. Funding has been approved at various Town Meetings at differing amounts beginning in FY2006. This year’s request and continuing appropriations include water main extensions and installation of hydrants at the end of dead-end water mains to facilitate the full flushing/cleaning of the water main, to improve water quality at these locations.

**Justification/Benefit:**

A number of hydrants within the system have out-lived their useful life cycle and show signs of fatigue or, in some instances, may be difficult to operate. Upgrading existing hydrants that are inoperable and/or do not meet the Town-wide hydrant standard is important to fire protection efforts and ISO ratings. In addition, there are 11 different types of hydrants within the system, reducing operation consistency: some hydrants open by turning the valve to the left while others open to the right; parts are not interchangeable, requiring procurement of a variety of parts and distributors for repairs, which tie up a large amount of the operating budget in inventory.

A number of older developments have distribution mains without the inclusion of a hydrant at the end of the water main, which prevents the complete flushing of the water main. These sections of pipe need a hydrant installed so they can be periodically flushed to improve water quality.

**Impact if not completed:**

Malfunctioning or out-of-service hydrants delay firefighting operations. Leaking hydrants waste water, increasing the system’s Unaccounted for Water (UAW); the inability to flush water mains via a hydrant leads to diminished water quality in some neighborhoods; stocking of parts for multiple hydrant types ties up capital and decreases operational efficiencies.

**Timeframe:**

Approximately 25 hydrants will be replaced or newly installed in FY2023

**Replace. Freq.:**

25 Years

**Stakeholders:**

Fire Department personnel, Tewksbury residents/businesses, and Department of Public Works Water Division staff

**Operating Budget Impact:**

Engineering Division and Water Division personnel time will be required to support the project.

**Funding Source:**

**Capital Funding Request**

Fiscal Year	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$125,000.00	\$625,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$125,000.00</b>	<b>\$125,000.00</b>	<b>\$125,000.00</b>	<b>\$125,000.00</b>	<b>\$125,000.00</b>	<b>\$625,000.00</b>

**Basis of Cost Projection:**

Cost Projection based on similar contract bid by the Town of Tewksbury in FY17.



# Town of Tewksbury FY2023- FY2027 Capital Improvements Projects

Project Name: Comprehensive Inspection and Cleaning of Water Tanks Date: 1/18/22

Project ID Number: \_\_\_\_\_ Revision Date: \_\_\_\_\_

Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: \_\_\_\_\_

First Year Submission:  Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

### Description of Project:

Cellular Network equipment currently occupying the catwalk will be relocated to a corral, which the Carriers are responsible to fund and build at the roof knuckle on the tank. The use of the corral structure will free the catwalk, and the entire structure, to be inspected for repair, shoring and application of an exterior and interior coating. The tank was built in 1969 and was last painted in 2000. It has been observed that partial failure of the exterior coatings located near the underbelly of the tank has occurred. Also, observations have been made that the catwalk sections flex and may need reinforcement to prevent failure. FY23 funding will be used to provide a full inspection of the structure, development of specifications for repairs and contract oversight, which will be appropriated separately as part of FY23 budget request

### Justification/Benefit:

Repairing the catwalk will improve safety for workers accessing the tank and cellular/radio equipment. Painting/coating the tank will protect the steel walls of the tank from corrosion thereby prolonging the life of the structure.

### Impact if not completed:

DEP may cite the Town with an Administrative Consent Order; steel tank walls could corrode and require extensive repair; water quality is diminished and repairs to the catwalk are safety concerns.

### Timeframe:

This work will be scheduled during FY23 in coordination with the work of the cellular carriers.

**Replace. Freq:** 5 to 20 Years

### Stakeholders:

All water enterprise customers, DPW Water & Sewer Division and Water Treatment Plant, MassDEP, and EPA.

### Operating Budget Impact:

Painting the exterior and repairs to the Astle Street tank are capital expenses and do not have operational impacts.

### Cost Analysis:

Funding Source:  Levy  CPA  Revolving  State Aid  Water  Sewer  Recreation  Private  Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$3,600,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,600,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$3,600,000.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$3,600,000.00</b>

### Basis of Cost Projection:

Cost Projection based on preliminary estimate by the design consultant.



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects

Project Name: Water Distribution System Improvements

Date: 01/18/2022

Project ID Number: \_\_\_\_\_

Revision Date: \_\_\_\_\_

Submitted By: Brian Gilbert, Director DPW Department: Department of Public Works Priority: \_\_\_\_\_

First Year Submission:  Phone #: 978-640-4440

Email: bgilbert@tewksbury-ma.gov

### Description of Project:

The Department Public Works has developed a Water Distribution System Master Plan to guide an on-going effort to remove and replace old pipe varying in size and made from cast-iron and asbestos cement. Proposed replacements will seek to maximize fire flow capacity, reduce residency time in the pipe, while looping system reaches for redundancy, reducing the frequency of main breaks and improving water quality.

This request seeks to fund the construction of water main replacements on Pike Street, Astle Street, and the first phase of Whipple Road. In addition, the engineering and design for pipe replacement of Cardigan Road, William G Drive, Shawsheen Street, and Foster Road water main is to be completed in FY23.

### Justification/Benefit:

The installation and replacement of existing water mains throughout the project work limits will enhance fire protection capabilities and improve water flows/pressures in these areas. In addition, replacement will remove a portion of the Town's deteriorating AC pipe and cast-iron pipe. Most importantly the replacement of deteriorating pipe will minimize the risk of water-breaks.

### Impact if not completed:

Existing water pipe material is prone to breaking, requiring the roadway to be excavated and patched. Unexpected service outages will result from continued water main breaks. Poor water pressure and quality will continue as a result of the undersized two-inch cast iron pipes.

### Timeframe:

Replacement Freq.: 50 Years

Construction will begin in FY23. Design and construction funding anticipates replacement of a total of 2.3 miles of new pipe.

### Stakeholders:

Water customers (Town residents, commercial establishments, institutions, etc.), Tewksbury Fire Dept., Department of Public Works Water Division

### Operating Budget Impact:

Replacement of asbestos cement (AC) and cast iron (CI) pipe with newer ductile iron (DI) pipe will result in fewer water main breaks for that section, and will reduce the associated costs with repairs and wasted water.

### Cost Analysis:

Funding Source:  Levy  CPA  Revolving  State Aid  Water  Sewer  Recreation  Private  Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineering	\$0.00	\$0.00	\$100,000.00	\$100,000.00	\$100,000.00	\$300,000.00
Construction	\$3,600,000.00	\$2,850,000.00	\$2,150,000.00	\$2,000,000.00	\$2,000,000.00	\$12,600,000.00
Equipment	\$86,981.38	\$50,000.00	\$75,000.00	\$75,000.00	\$100,000.00	\$386,981.38
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

### Basis of Cost Projection:

Construction costs for the water distribution improvements are based on Engineer's cost estimates and construction project costs from previous years.

**Water  
5-Year Capital Cost**

Budget Cost Elements	FY23	FY24	FY25	FY26	FY27	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$0.00	\$0.00	\$100,000.00	\$100,000.00	\$100,000.00	\$300,000.00
Construction	\$7,325,000.00	\$2,975,000.00	\$2,275,000.00	\$2,125,000.00	\$2,125,000.00	\$16,825,000.00
Equipment	\$86,981.38	\$50,000.00	\$75,000.00	\$75,000.00	\$100,000.00	\$386,981.38
<b>TOTAL</b>	<b>\$7,411,981.38</b>	<b>\$3,025,000.00</b>	<b>\$2,450,000.00</b>	<b>\$2,300,000.00</b>	<b>\$2,325,000.00</b>	<b>\$17,511,981.38</b>

Fiscal Year Program	Project Name	Work Description	Comments/Location	Cost
<b>FY23</b>	<b>Cal 2022-2023</b>			
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00 Enterprise
	Meter Replacement Program	Replace aging water meters		\$86,981.38 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Pike Street and Astle Street		\$750,000.00 ARPA Funds
	Water Distribution Upgrades	Construct Distribution Main Upgrades Whipple Rd (Phase 1)		\$2,850,000.00 ARPA Funds
<b>Water Plant Improvement</b>				
	Astle Street Tank Renovations	Construction: Catwalk repair/Carrier reorganization and painting (Doesn't include Bonding for Carrier costs)		\$3,600,000.00 Enterprise
			<b>Total Cost FY23</b>	<b>\$7,411,981.38</b>
<b>FY24</b>	<b>Cal 2023-2024</b>			
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00 Enterprise
	Meter Replacement Program	Replace aging water meters		\$50,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Whipple Rd (Phase 2)		\$2,850,000.00 ARPA Funds
<b>Water Plant Improvement</b>				
				\$0.00
			<b>Total Cost FY24</b>	<b>\$3,025,000.00</b>
<b>FY25</b>	<b>Cal 2024-2025</b>			
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00 Enterprise
	Meter Replacement Program	Replace aging water meters		\$75,000.00 Enterprise
	Water Distribution Upgrades	Engineer/Design Distribution Main Upgrades Locations TBD		\$100,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Beech Street neighborhood		\$550,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Fiske Street		\$1,200,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Victor Drive		\$400,000.00 Enterprise
<b>Water Plant Improvement</b>				
				\$0.00
			<b>Total Cost FY25</b>	<b>\$2,450,000.00</b>
<b>FY26</b>	<b>Cal 2025-2026</b>			
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00 Enterprise
	Meter Replacement Program	Replace aging water meters		\$75,000.00 Enterprise
	Water Distribution Upgrades	Engineer/Design Distribution Main Upgrades Locations TBD		\$100,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades Cardigan/William G		\$2,000,000.00 Enterprise
<b>Water Plant Improvement</b>				
				\$0.00
			<b>Total Cost FY26</b>	<b>\$2,300,000.00</b>
<b>FY27</b>	<b>Cal 2026-2027</b>			
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$125,000.00 Enterprise
	Meter Replacement Program	Replace aging water meters		\$100,000.00 Enterprise
	Water Distribution Upgrades	Engineer/Design Distribution Main Upgrades Locations TBD		\$100,000.00 Enterprise
	Water Distribution Upgrades	Construct Distribution Main Upgrades South Tewksbury (Phase 3)		\$2,000,000.00 Enterprise
<b>Water Plant Improvement</b>				
				\$0.00
			<b>Total Cost FY27</b>	<b>\$2,325,000.00</b>

# **DPW Sewer Enterprise**



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects

Project Name: Sewer Inflow and Infiltration Date: 01/18/2022  
 Project ID Number: \_\_\_\_\_ Revision Date: \_\_\_\_\_  
 Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: \_\_\_\_\_  
 First Year Submission:  Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

### Description of Project:

This project is an on-going annual request for the rehabilitation of sewer manholes, pipe segments, and service connections that have been found to be sources of Inflow and Infiltration (I/I). Investigative tasks and projects are required by the DEP, who has recently mandated the submittal of a five-year I/I reduction plan and annual reporting for all cities and towns permitted for discharge from a treatment facility. The Town submitted a 5-year plan (2018) which has been reviewed and approved by DEP. Initial investigations were conducted as early as 2012 and repairs made as late as 2017. Continued investigations of (14) primary sub-basins are required to specifically identify locations of structural failures, and target repairs.

Operating funds will be used for on-going investigations in preparation of subsequent capital funding requests for infrastructure repairs. These repairs are scheduled for the FY2023-2027 budgets; it is anticipated that older system pipe will have been identified for replacement/repair and more extensive repairs to manholes will be undertaken.

### Justification/Benefit:

Infiltration and Inflow (I/I) is extraneous water entering the wastewater collection system. Infiltration refers to groundwater that enters the collection system through physical defects such as cracks in the pipes and manholes, or deteriorated joints. Inflow refers to extraneous flow entering the system through point sources, such as roof drains and sump pumps. The extraneous flow produced from I/I sources restricts the potential for new growth by reducing the available capacity in the system and increases the cost of wastewater treatment operations. More importantly, the reduction in pipe capacity has the potential to cause Sanitary Sewer Overflows (SSOs) during periods of the year with high groundwater recharge and rain events. By removing I/I sources, the system's total capacity is increased, helping to minimize the potential for SSOs, and allowing for additional development. Flows originating from the East Street, Burnham Road, and Andover Street sub-basins have been estimated to operate with peak infiltration at 15%, 68%, 31% respectively, during the high groundwater season. I/I removal is also a requirement of the new discharge permit issued by EPA in September 2019.

### Impact if not completed:

Tewksbury's sewer enterprise operates under regulations promulgated by the Massachusetts Department of Environmental Protection (MassDEP). Each year, Tewksbury is required to investigate its system and make repairs. The investigation for I/I sources also allow staff to review the structural condition of the infrastructure to prioritize repairs. Although this is a requirement of the Town's discharge permit, it is a beneficial program designed to ensure a long-range return on the investment made in the new sewer network. By finding and eliminating extraneous flow, the increased capacity of the new system is maintained over a greater number of years. Also, peak flows may surcharge sewer collection pipe capacity and contribute to residential sewer system backups, causing damage and cost to the Town.

### Timeframe:

Manhole repairs will be contracted out for FY2023. Capital appropriations currently exist for incidental pipe repairs.

**Replacement Freq.:** 5-25 Years

### Stakeholders:

All sewer customers, DPW Water & Sewer Division, MassDEP, EPA, Lowell Regional Wastewater Utility (LRWWU)

### Operating Budget Impact:

Engineering Division and Water & Sewer Division personnel time will be required to support the projects to be completed.

### Cost Analysis:

Funding Source:  Levy  CPA  Revolving  State Aid  Water  Sewer  Recreation  Private  Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Construction	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$350,000.00	\$1,750,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$350,000.00</b>	<b>\$350,000.00</b>	<b>\$350,000.00</b>	<b>\$350,000.00</b>	<b>\$350,000.00</b>	<b>\$1,750,000.00</b>

Basis of Cost Projection: Engineer's Estimate



# Town of Tewksbury FY2023 - FY2027 Capital Improvements Projects

Project Name: Sewer Pump Station Improvements

Date: 02/9/2022

Project ID Number: \_\_\_\_\_ Revision Date: \_\_\_\_\_

Submitted By: Brian Gilbert, Director DPW Department: Public Works Dept. Priority: \_\_\_\_\_

First Year Submission:  Phone #: 978-640-4440 Email: bgilbert@tewksbury-ma.gov

### Description of Project:

This request is comprised of various projects to ensure the on-going operation of sewer pump stations. Types of projects in the category include upgrade to control panels and sensors, replacement of pumps and installation of new equipment to improve the performance of individual stations. The FY23 project list includes the installation of in-line mechanical grinders to breakdown solid materials in the waste stream before entering the pump station wet-wells at the Munro Circle and Regina S Drive pump stations and improvements to the Wal-Mart pump station. The in-line mechanical grinders were designed as part of the FY20 budget. The grinder installation project aims to reduce pump station malfunction due to material clogging the pumps and the necessity for emergency response operations to free clogged pumps. The Town recently took ownership of the Wal-Mart pump station per an easement agreement from 2002. An assessment of this station will be performed, and all necessary upgrades undertaken to ensure proper functioning. An assessment of all the equipment and controls in each pump station is also included in the request for the pump station improvements. This assessment will serve as a guide for future pump station upgrades.

### Justification/Benefit:

The town-wide sewer collection system utilizes forty-six (46) sewer pump stations. Of these, the larger stations in the system have been equipped with grinders; however, several smaller stations have continuing problems with pump obstructions. The Munro Circle and Regina S Drive pump stations experience a high number of pump malfunction alarms which disable the pumps. The installation of the grinders will reduce the occurrence of clogs and emergency response, extend the life of the pump(s) and reduce the risk of sewer overflows. It is important to perform a system-wide assessment in order to properly plan future pump station improvements/upgrades.

### Impact if not completed:

Alarms at these stations will continue to require the need for emergency response, many of which occurs after regular hours. Pump failures will reduce the expected life cycle of the pumps, which then would need to be replaced. Pump Station back-ups could occur if emergency response lags or during periods of high flow pumps are disabled.

**Replacement Freq.: 25 Years**

### Timeframe:

Installation of the Munro Circle and Regina S Drive pump station grinders shall be completed during the FY23 budget year. Upgrades to the Wal-Mart pump station shall be completed during the FY23 budget year. The pump station assessment shall be performed during the FY23 budget year.

### Stakeholders:

All sewer customers connected to the Munro Circle, Regina S Drive, and Wal-Mart pump stations, DPW Water & Sewer Division

### Operating Budget Impact:

Water & Sewer Division overtime should be reduced and cost for electrical power to operate the grinder.

### Cost Analysis:

Funding Source:  Levy  CPA  Revolving  State Aid  Water  Sewer  Recreation  Private  Other

### Capital Funding Request

	2023	2024	2025	2026	2027	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$75,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$75,000.00
Construction	\$515,000.00	\$400,000.00	\$250,000.00	\$250,000.00	\$250,000.00	\$1,665,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$590,000.00</b>	<b>\$400,000.00</b>	<b>\$250,000.00</b>	<b>\$250,000.00</b>	<b>\$250,000.00</b>	<b>\$1,740,000.00</b>

### Basis of Cost Projection:

Engineer's estimate.

**Sewer  
5-Year Capital Cost**

Budget Cost Elements	FY23	FY24	FY24	FY26	FY27	TOTAL
Site Acquisition	\$0	\$0	\$0.00	\$0.00	\$0.00	\$0
Design/Eng.	\$75,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$75,000.00
Construction	\$765,000.00	\$750,000.00	\$600,000.00	\$600,000.00	\$600,000.00	\$3,315,000.00
Equipment	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$840,000.00</b>	<b>\$750,000.00</b>	<b>\$600,000.00</b>	<b>\$600,000.00</b>	<b>\$600,000.00</b>	<b>\$3,390,000.00</b>

Fiscal Year	Program	Project Name	Work Description	Comments/Location	Cost
<b>FY23</b>			<b>Cal yr. 2022-2023</b>		
		<b>Infiltration and Inflow (I/I) Control</b>			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY21-22 Camera/Investigation Chemical Grout Manholes Fiske Street, Sawyer Lane and Ames Pond sub-catchments		\$200,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2022		\$50,000.00
		<b>Pump Station Improvements</b>			
		Design and Construction	Install in-line grinders at two pump stations      Munro Circle and Regina S Drive Pump Station upgrades - Wal-Mart pump station Facility Assessment of equipment and controls to ensure performance		\$415,000.00 \$100,000.00 \$75,000.00
			<b>Total Cost FY23</b>		<b>\$840,000.00</b>
<b>FY24</b>			<b>Cal yr. 2023-2024</b>		
		<b>Infiltration and Inflow (I/I) Control</b>			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY22-23 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2023		\$50,000.00
		<b>Pump Station Improvements</b>			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment Construction - Odor Mitigation at East Street Pump Station		\$250,000.00 \$150,000.00
			<b>Total Cost FY24</b>		<b>\$750,000.00</b>
<b>FY25</b>			<b>Cal yr. 2024-2025</b>		
		<b>Infiltration and Inflow (I/I) Control</b>			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2024		\$50,000.00
		<b>Pump Station Improvements</b>			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			<b>Total Cost FY25</b>		<b>\$600,000.00</b>
<b>FY26</b>			<b>Cal yr. 2025-2026</b>		
		<b>Infiltration and Inflow (I/I) Control</b>			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2025		\$50,000.00
		<b>Pump Station Improvements</b>			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			<b>Total Cost FY26</b>		<b>\$600,000.00</b>
<b>FY27</b>			<b>Cal yr. 2026-2027</b>		
		<b>Infiltration and Inflow (I/I) Control</b>			
		Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$300,000.00
		Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2026		\$50,000.00
		<b>Pump Station Improvements</b>			
		Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$250,000.00
			<b>Total Cost FY27</b>		<b>\$600,000.00</b>