



**Capital Improvement Plan**  
**FY2025 - FY2029**

The Following is the Capital Improvement Plan (CIP) for the Town of Tewksbury which covers the next five (5) Fiscal Years, 2025-2029. 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 FY2025-FY2029**  
**Part II**

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025 -2029  
SUMMARY**

DEPARTMENT	PROJECT/PROGRAM	FUNDING SOURCE	FY2025	FY2026	FY2027	FY2028	FY2029	Total
<b>Facilities and Grounds</b>								
	Police Station	R&A/Stab. Fund/CPA Funds/Free Cash	113,923	-	-	-	-	<b>113,923</b>
	Library	R&A/Stab. Fund/CPA Funds/Free Cash	-	-	500,000	-	-	<b>500,000</b>
	Town Hall and Town Hall Annex	R&A/Stab. Fund/CPA Funds/Free Cash	21,300	-	-	-	-	<b>21,300</b>
	Senior Center	R&A/Stab. Fund/CPA Funds/Free Cash	-	200,000	-	-	-	<b>200,000</b>
	Facilities and Grounds Vehicles and Equipment	R&A/Stab. Fund/CPA Funds/Free Cash	-	-	-	-	-	-
	Recreation Fields and Facilities Improvements	R&A/Stab. Fund/CPA Funds/Free Cash	69,000	150,000	150,000	150,000	150,000	<b>669,000</b>
<b>Total Facilities and Grounds</b>			<b>204,223</b>	<b>350,000</b>	<b>650,000</b>	<b>150,000</b>	<b>150,000</b>	<b>1,504,223</b>
<b>Fire Department</b>								
	New Ambulance and Equipment	R&A/Stab. Fund/Free Cash	450,000	-	475,000	-	500,000	<b>1,425,000</b>
	North Fire Station Renovation	R&A/Stab. Fund/Free Cash	-	1,800,000	-	-	-	<b>1,800,000</b>
	New Administration Vehicle	R&A/Stab. Fund/Free Cash	75,000	160,000	-	-	-	<b>235,000</b>
	New Fire Engine and Equipment	R&A/Stab. Fund/Free Cash	-	-	-	975,000	-	<b>975,000</b>
	Turnout Gear and New Equipment	R&A/Stab. Fund/Free Cash	35,000	50,000	50,000	-	-	<b>135,000</b>
<b>Total Fire Department</b>			<b>560,000</b>	<b>2,010,000</b>	<b>525,000</b>	<b>975,000</b>	<b>500,000</b>	<b>4,570,000</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	<b>1,000,000</b>
Public Works (General Fund)	Pavement Management Reconstruction/Resurfacing	R&A/Stab. Fund/FC/Borrowing/CH90	445,000	445,000	445,000	445,000	445,000	<b>2,225,000</b>
Public Works (General Fund)	Sidewalks	R&A/Stab. Fund/FC/Borrowing/CH90	250,000	250,000	650,000	250,000	250,000	<b>1,650,000</b>
Public Works (General Fund)	Improvement Projects	R&A/Stab. Fund/FC/Borrowing/CH90	70,000	60,000	200,000	55,000	200,000	<b>585,000</b>
Public Works (General Fund)	Project Development	R&A/Stab. Fund/FC/Borrowing/CH90	100,000	100,000	100,000	100,000	100,000	<b>500,000</b>
<b>Total Transportation</b>			<b>1,065,000</b>	<b>1,055,000</b>	<b>1,595,000</b>	<b>1,050,000</b>	<b>1,195,000</b>	<b>5,960,000</b>
<b>Public Works Department</b>								
<b>Fleet and Equipment</b>								
Public Works (General Fund)	Vehicles and Equipment	R&A/Stab. Fund/Free Cash	280,000	140,000	540,000	240,000	750,000	<b>1,950,000</b>
<b>Total Fleet and Equipment</b>			<b>280,000</b>	<b>140,000</b>	<b>540,000</b>	<b>240,000</b>	<b>750,000</b>	<b>1,950,000</b>
<b>Grand Total DPW</b>			<b>1,345,000</b>	<b>1,195,000</b>	<b>2,135,000</b>	<b>1,290,000</b>	<b>1,945,000</b>	<b>7,910,000</b>
<b>Grand Total General Fund</b>			<b>2,109,223</b>	<b>3,555,000</b>	<b>3,310,000</b>	<b>2,415,000</b>	<b>2,595,000</b>	<b>13,984,223</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025 -2029  
SUMMARY**

DEPARTMENT	PROJECT/PROGRAM	FUNDING SOURCE	FY2025	FY2026	FY2027	FY2028	FY2029	Total
<b>Public Works Department</b>								
<b>Sewer Enterprise Fund</b>								
Public Works (Sewer)	Inflow and Infiltration I/I Control	Borrowing/R&A/Retained Earnings	50,000	250,000	250,000	250,000	250,000	<b>1,050,000</b>
Public Works (Sewer)	Sewer Pump Station Improvements	Borrowing/R&A/Retained Earnings	400,000	350,000	350,000	350,000	350,000	<b>1,800,000</b>
Public Works (Sewer)	Collections System Upgrades	Borrowing/R&A/Retained Earnings	-	-	-	-	-	-
Public Works (Sewer)	Fleet and Equipment Replacement Program	R&A/Ent. Fund	75,000	13,500	300,000	-	27,500	<b>416,000</b>
<b>Total Sewer Enterprise Fund</b>			<b>525,000</b>	<b>613,500</b>	<b>900,000</b>	<b>600,000</b>	<b>627,500</b>	<b>3,266,000</b>
<b>Public Works Department</b>								
<b>Water Enterprise Fund</b>								
Public Works (Water)	Hydrant Replacement Program	R&A Ent. Fund/Retained Earnings	150,000	150,000	150,000	150,000	150,000	<b>750,000</b>
Public Works (Water)	Water Distribution System Improvements	Borrowing/R&A/Retained Earnings	5,400,000	5,400,000	5,400,000	5,400,000	5,400,000	<b>27,000,000</b>
Public Works (Water)	Water Treatment Plant and Tank Maint./Upgrades	Borrowing/R&A/Retained Earnings	400,000	500,000	200,000	150,000	250,000	<b>1,500,000</b>
Public Works (Water)	Water Meter Replacement		1,500,000	1,500,000	1,500,000	-	-	<b>4,500,000</b>
Public Works (Water)	Fleet and Equipment Replacement Program	R&A Ent. Fund/Retained Earnings	75,000	13,500	300,000	-	27,500	<b>416,000</b>
<b>Total Water Enterprise Fund</b>			<b>7,525,000</b>	<b>7,563,500</b>	<b>7,550,000</b>	<b>5,700,000</b>	<b>5,827,500</b>	<b>34,166,000</b>
<b>Public Works Department</b>								
<b>Stormwater Enterprise Fund</b>								
Public Works (Stormwater)	Drains	R&A Ent. Fund/Retained Earnings	250,000	250,000	600,000	200,000	600,000	<b>1,900,000</b>
Public Works (Stormwater)	Stormwater Compliance	R&A Ent. Fund/Retained Earnings	-	-	-	-	-	-
Public Works (Stormwater)	Project Development	R&A Ent. Fund/Retained Earnings	175,000	150,000	50,000	160,000	60,000	<b>595,000</b>
<b>Total Stormwater Enterprise Fund</b>			<b>425,000</b>	<b>400,000</b>	<b>650,000</b>	<b>360,000</b>	<b>660,000</b>	<b>2,495,000</b>
<b>Telemedia Department</b>								
<b>Telemedia Enterprise Fund</b>								
Telemedia Department	THMS Production Cart	R&A Ent. Fund/Retained Earnings	48,000	-	-	-	-	<b>48,000</b>
<b>Total Telemedia Enterprise Fund</b>			<b>48,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>48,000</b>
<b>Grand Total All Capital Projects Per Year</b>			<b>10,632,223</b>	<b>12,132,000</b>	<b>12,410,000</b>	<b>9,075,000</b>	<b>9,710,000</b>	
<b>Grand Total All Projects All Years</b>								<b>53,959,223</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025-2029**

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

DEPARTMENT	PROJECT/PROGRAM	FY2025	FY2026	FY2027	FY2028	FY2029	Total
<b>Facilities and Grounds</b>							
	Police Station	113,923	-	-	-	-	113,923
	Library	-	-	500,000	-	-	500,000
	Town Hall and Town Hall Annex	21,300	-	-	-	-	21,300
	Senior Center	-	200,000	-	-	-	200,000
	Facilities and Grounds Vehicles and Equipment	-	-	-	-	-	-
	Recreation Fields and Facilities Improvements	69,000	150,000	150,000	150,000	150,000	669,000
<b>Total Facilities and Grounds</b>		<b>204,223</b>	<b>350,000</b>	<b>650,000</b>	<b>150,000</b>	<b>150,000</b>	<b>1,504,223</b>
<b>Fire Department</b>							
	New Ambulance and Equipment	450,000	-	475,000	-	500,000	1,425,000
	North Fire Station Renovation	-	1,800,000	-	-	-	1,800,000
	New Administration Vehicle	75,000	160,000	-	-	-	-
	New Fire Engine and Equipment	-	-	-	975,000	-	975,000
	Turnout Gear and New Equipment	35,000	50,000	50,000	-	-	135,000
<b>Total Fire Department</b>		<b>560,000</b>	<b>2,010,000</b>	<b>525,000</b>	<b>975,000</b>	<b>500,000</b>	<b>4,570,000</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>Public Works Department</b>							
<b>Fleet and Equipment</b>							
Public Works (General Fund)	Vehicles and Equipment	280,000	140,000	540,000	240,000	750,000	1,950,000
<b>Total Fleet and Equipment</b>		<b>280,000</b>	<b>140,000</b>	<b>540,000</b>	<b>240,000</b>	<b>750,000</b>	<b>1,950,000</b>
<b>Total DPW</b>		<b>530,000</b>	<b>390,000</b>	<b>790,000</b>	<b>490,000</b>	<b>1,000,000</b>	<b>3,200,000</b>
<b>Grand Total General Fund</b>		<b>1,294,223</b>	<b>2,750,000</b>	<b>1,965,000</b>	<b>1,615,000</b>	<b>1,650,000</b>	<b>9,274,223</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025-2029**

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

<b>DEPARTMENT</b>	<b>PROJECT/PROGRAM</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>FY2028</b>	<b>FY2029</b>	<b>Total</b>
<b>Facilities and Grounds</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	445,000	445,000	445,000	445,000	445,000	<b>2,225,000</b>
Public Works (General Fund)	Sidewalks	-	-	400,000	-	-	<b>400,000</b>
Public Works (General Fund)	Improvement Projects	70,000	60,000	200,000	55,000	200,000	<b>585,000</b>
Public Works (General Fund)	Project Development	100,000	100,000	100,000	100,000	100,000	<b>150,000</b>
<b>Total Transportation</b>		<b>815,000</b>	<b>805,000</b>	<b>1,345,000</b>	<b>800,000</b>	<b>945,000</b>	<b>4,360,000</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025-2029**

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

DEPARTMENT	PROJECT/PROGRAM	FY2025	FY2026	FY2027	FY2028	FY2029	Total
<b>Facilities and Grounds</b>							
<b>Sewer Enterprise Fund</b>							
Public Works (Sewer)	Inflow and Infiltration I/I Control	50,000	250,000	250,000	250,000	250,000	<b>1,050,000</b>
Public Works (Sewer)	Sewer Pump Station Improvements	400,000	350,000	350,000	350,000	350,000	<b>1,800,000</b>
Public Works (Sewer)	Collections System Upgrades	-	-	-	-	-	-
Public Works (Sewer)	Fleet and Equipment Replacement Program	75,000	13,500	300,000	-	27,500	<b>416,000</b>
<b>Total Sewer Enterprise Fund</b>		<b>525,000</b>	<b>613,500</b>	<b>900,000</b>	<b>600,000</b>	<b>627,500</b>	<b>3,266,000</b>
<b>Public Works Department</b>							
<b>Water Enterprise Fund</b>							
Public Works (Water)	Hydrant Replacement Program	150,000	150,000	150,000	150,000	150,000	<b>750,000</b>
Public Works (Water)	Water Distribution System Improvements	-	-	-	-	-	-
Public Works (Water)	Water Treatment Plant and Tank Maint./Upgrades	400,000	500,000	200,000	150,000	250,000	<b>1,500,000</b>
Public Works (Water)	Water Meter Replacement	-	-	-	-	-	-
Public Works (Water)	Fleet and Equipment Replacement Program	75,000	13,500	300,000	-	27,500	<b>416,000</b>
<b>Total Water Enterprise Fund</b>		<b>625,000</b>	<b>663,500</b>	<b>650,000</b>	<b>300,000</b>	<b>427,500</b>	<b>2,666,000</b>
<b>Public Works Department</b>							
<b>Stormwater Enterprise Fund</b>							
Public Works (Stormwater)	Drains	250,000	250,000	600,000	200,000	600,000	<b>1,900,000</b>
Public Works (Stormwater)	Stormwater Compliance	-	-	-	-	-	-
Public Works (Stormwater)	Project Development	175,000	150,000	50,000	160,000	60,000	<b>595,000</b>
<b>Total Stormwater and Drainage</b>		<b>425,000</b>	<b>400,000</b>	<b>650,000</b>	<b>360,000</b>	<b>660,000</b>	<b>2,495,000</b>
<b>Telemedia Department</b>							
<b>Telemedia Enterprise Fund</b>							
Telemedia Department	THMS Production Cart	48,000	-	-	-	-	<b>48,000</b>
<b>Total Telemedia Enterprise Fund</b>		<b>48,000</b>	-	-	-	-	<b>48,000</b>
<b>Grand Total Per Year</b>		<b>1,623,000</b>	<b>1,677,000</b>	<b>2,200,000</b>	<b>1,260,000</b>	<b>1,715,000</b>	
<b>Grand Total All Projects All Years</b>							<b>8,475,000</b>

<b>Water Enterprise Budget Projections FY2025-2029</b>									
<b>P&amp;I COMBINED ON WATER DEBT</b>									
				<b>FY2024</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>FY2028</b>	<b>FY2029</b>
			<b>Existing Debt P&amp;I</b>	<b>2,586,275</b>	<b>2,374,275</b>	<b>2,142,880</b>	<b>2,055,230</b>	<b>1,587,981</b>	<b>1,526,781</b>
<b>PROPOSED DEBT</b>	<b>Projects</b>	<b>Projected Cost</b>	<b>Amount to be Borrowed</b>	<b>Debt Service</b>					
<b>Facilities and Grounds</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000		619,200	673,650	658,800	643,950	629,100
Water Meters	Water Meter Replacement Program	4,500,000	1,500,000		172,000	187,125	183,000	178,875	174,750
<b>Fiscal Year 2026</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000		619,200	673,650	658,800	643,950	629,100
Water Meters	Water Meter Replacement Program	4,500,000	1,500,000		172,000	187,125	183,000	178,875	174,750
<b>Fiscal Year 2027</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000				619,200	1,664,625	658,800
Water Meters	Water Meter Replacement Program	4,500,000	1,500,000				172,000	187,125	183,000
<b>Fiscal Year 2028</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000					619,200	673,650
<b>Fiscal Year 2029</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						619,200
<b>Fiscal Year 2030</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						619,200
<b>Fiscal Year 2031</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						
<b>Fiscal Year 2032</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						
<b>Fiscal Year 2033</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						
<b>Fiscal Year 2034</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						
<b>Fiscal Year 2035</b>									
Water Distribution Upgrades	Water Distribution System Improvements	5,400,000	5,400,000						
<b>Total New Debt</b>				-	<b>791,200</b>	<b>1,651,975</b>	<b>2,493,775</b>	<b>4,135,575</b>	<b>3,761,325</b>
<b>Grand Total Existing and New Debt</b>				<b>2,586,275</b>	<b>3,165,475</b>	<b>3,794,855</b>	<b>4,549,005</b>	<b>5,723,556</b>	<b>5,288,106</b>

**TOWN OF TEWKSBURY  
CAPITAL PLANNING PROGRAM  
FISCAL YEARS 2025-2029  
SUMMARY**

<b>Capital Plan Summary</b>	<b>FY2025</b>	<b>FY2026</b>	<b>FY2027</b>	<b>FY2028</b>	<b>FY2029</b>	<b>Total</b>
Facilities and Grounds	2,109,223	3,555,000	3,310,000	2,415,000	2,595,000	13,984,223
Sewer Enterprise Fund	525,000	613,500	900,000	600,000	627,500	3,266,000
Water Enterprise Fund	7,525,000	7,563,500	7,550,000	5,700,000	5,827,500	34,166,000
Stormwater Enterprise Fund	425,000	400,000	650,000	360,000	660,000	2,495,000
Telemedia Enterprise Fund	48,000	-	-	-	-	48,000
<b>Total Capital Plan Funded</b>	<b>10,632,223</b>	<b>12,132,000</b>	<b>12,410,000</b>	<b>9,075,000</b>	<b>9,710,000</b>	<b>53,959,223</b>
<b>Annual Capital Improvement Plan Cost</b>						
R&A or Transfer from Stabilization Fund or Free Cash	1,294,223	2,750,000	1,965,000	1,615,000	1,650,000	9,274,223
Chapter 90, Other MA Highway Programs and Grants	815,000	805,000	1,345,000	800,000	945,000	4,710,000
General Fund Debt Service	-	-	-	-	-	-
R&A or Transfer from Sewer Enterprise Fund	525,000	613,500	900,000	600,000	627,500	3,266,000
R&A or Transfer from Water Enterprise Fund	625,000	663,500	650,000	300,000	427,500	2,666,000
R&A or Transfer from Stormwater Enterprise Fund	425,000	400,000	650,000	360,000	660,000	2,495,000
R&A or Transfer from Telemedia Enterprise Fund	48,000	-	-	-	-	48,000
Water Enterprise Funds Debt Service	791,200	1,651,975	2,493,775	4,135,575	3,761,325	12,833,850
<b>Total Fiscal Year Cost</b>	<b>4,523,423</b>	<b>6,883,975</b>	<b>8,003,775</b>	<b>7,810,575</b>	<b>8,071,325</b>	<b>35,293,073</b>

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

# **Fire Department**



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Fire Department Equipment and supplies for new fire engine.

**Department:** Fire

**First Year Submission** FY25

**Priority:** Med

**Description of Project:** Purchase equipment including vehicle extrication tools, for a new fire engine, so that all apparatus will have these tools.

**Justification/Benefit:** Will not have to transfer vehicle extrication tools from an engine onto a back up engine that is needed to be put in service. All apparatus will be equipped and ready to be out in service in case of an emergency.

**Impact if not Completed:** We will make sure the equipment and supplies are transferred from the one piece of apparatus to another.

**Timeframe:** Fy25

**Replacement Frequency:** \_10 years

**Operating Budget Impact:** No impact on operating budget but does impact operations.

**Funding Source:**

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	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	\$35,000	\$0.00	\$0.00	\$0.00	\$0.00	\$35,000
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$0.00</b>	<b>\$35,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$35,000</b>

**Basis of Cost Projection:** Quotes we are got from the vendor.

**Submitted By:** Fire Chief Joeseeph Kearns **Date:** 12-22-23



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** New Administrative vehicle and equipment

**Department:** Fire Dept. **First Year Submission** Fy24 **Priority:** Medium

**Description of Project:** Replace 2011 Ford expedition for the Training Officer with a pickup truck or similar type vehicle and equipment. This vehicle is surpassing its life expectancy and will need to be removed from service. FY26 vehicle would be purchased to replace Car 3 as a frontline command vehicle. Also to replace one of the fire investigators vehicles.

**Justification/Benefit:** This vehicle will allow us to transport training props, and equipment to and from locations where we conduct training exercises. This will also allow us to not have to put contaminated equipment in the passenger compartment. The current vehicle used by the Training Officer is beginning to have issues with rust and rot. This new vehicle will also be used to transport personnel and equipment during and after an emergency. Car 3 is the front run command vehicle that responds to a vast majority of all calls and will need to be replaced.

**Impact if not Completed:** We will continue to keep the current vehicle in service for as long as possible and for as long as it can be safely on the road. During State inspection this year it was pointed out that frame rot/rust may not allow this current vehicle to pass inspection soon.

**Timeframe:** FY25 FY26

**Replacement Frequency:**   15   years

**Operating Budget Impact:**

**Funding Source:**

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Equipment</b>	\$75,000	\$160,000	\$0.00	\$0.00	\$0.00	<b>\$235,000</b>
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Totals</b>	<b>\$75,000</b>	<b>\$160,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$235,000</b>

**Basis of Cost Projection:**

**Submitted By:** Fire Chief Joseph Kearns    **Date:** 12-22-23



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** New Ambulance and equipment

**Department:** Fire Dept. **First Year Submission 2022 Priority:** High

**Description of Project:** : Replace 2016 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 FY2025 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 resource 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 specifications. The lead time to take delivery on an ambulance is also a concerning factor. Currently, it is taking up to 24 months or more to take delivery.

**Impact if not Completed:** Costly repairs and the potential of breakdowns during critical emergency responses as these vehicles age. . The backup ambulance, the oldest in the fleet, is only placed in service during mass casualty incidents or when one of the primary ambulances requires maintenance or repair.

**Timeframe:** FY25-Fy27

**Replacement Frequency:**   3   years

**Operating Budget Impact:** Due to the lead time (24+months) in delivery of the Ambulance purchased in the FY22 budget, the maintenance costs for the existing fleet are going to continue to rise as the older models continue as front-line pieces.

**Funding Source:**

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Vehicle/Equipment</b>	\$450,000	\$0.00	\$475,000	\$0.00	\$500,000	<b>\$1,425,000</b>
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Totals</b>	<b>\$450,000</b>	<b>\$0.00</b>	<b>\$475,000</b>	<b>\$0.00</b>	<b>\$500,000</b>	<b>\$1,425,000</b>

**Basis of Cost Projection:** Based upon estimates at this time, with hopes that the costs continue to level out.



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** North Fire Station Renovation

**Department:** Fire Dept. **First Year Submission** 2017 **Priority:** Medium

**Description of Project:** Renovation of the first floor of the North Fire Station and the addition of a second floor above the living quarters. 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 48 years old. It meets the current needs of the Fire Department from a size and location point of view; however, it does not meet many of 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 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:** FY26

**Replacement Frequency:** 50 years

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

**Funding Source:**

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Engineer	\$0.00	\$200,000	\$0.00	\$0.00	\$0.00	\$200,000
Construction	\$0.00	\$1,600,000	\$0.00	\$0.00	\$0.00	\$1,600,000
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>\$0.00</b>	<b>\$1,800,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$1,800,000</b>

**Basis of Cost Projection:**

**Submitted By:** Fire Chief Joeseeph Kearns **Date:** 12-22-23



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** New Fire Engine Pumper and equipment

**Department:** Fire **First Year Submission** FY25 **Priority:** Medium

**Description of Project:** Replace the Department’s 2010 Seagrave Marauder fire engine with a new fire engine. New vehicle specifications 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:** The lead time on this engine is a minimum of 36-40 months, Engine 3 will be eighteen years old in 2028. By this time engine 3 will have reached the end of its lifecycle as a reliable piece of apparatus. The costs for maintenance will increase as this vehicle gets older. 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 3 will be a backup engine; however, it is put in service 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 does 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. And again, with the lead time and cost increase on any new apparatus not appearing to shorten or lessen if this purchase is put off it will be more expensive and the cost to maintain the current engine will continue to rise.

**Timeframe:** FY28 **Replacement Frequency:**   20   years

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

Funding Source:						
Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	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	975,000	\$0.00	\$975,000
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>\$0.00</b>	<b>\$975,000</b>	<b>\$0.00</b>	<b>\$975,000</b>

**Basis of Cost Projection:** Projected continuing increase in the cost of apparatus.

**Submitted By:** Fire Chief Joseph Kearns **Date:** 12-22-23

# **Facilities and Grounds**



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Town Hall and Annex Improvements

**Department:** Facilities and Grounds **First Year Submission 2025** **Priority:** 3

**Description of Project:** Paint interior of Town Hall Annex 12,300 and new electric box for the Town Common will cost 9,000.

**Justification/Benefit:** The Town Hall Annex has not been painted for over 15 years. The Electric Box on the Town Common is outdated.

**Impact if not Completed:** There is no significant impact if the painting is not undertaken with the acceptance of appearance of office and building looking rundown and dirty. The Electric could fail at any time and impact events on the Town Common

**Timeframe:** 6 months

**Replacement Frequency:** 15 years

**Operating Budget Impact:** Operating Budget may need to undertake the work especially if the Electric Box fails.

**Funding Source:** Stabilization Fund

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$21,300	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$21,300</b>
<b>Equipment</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$21,300</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$21,300</b>

**Basis of Cost Projection:** Estimates from vendors

**Submitted By:** Vincent Bomal \_\_\_\_\_ **Date:** 1/31/24 \_\_\_\_\_



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Police Department Building Improvements

**Department:** Facilities and Grounds **First Year Submission 2025** **Priority:** 1

**Description of Project:** New windows for the Police Station are needed, which have not been replaced since the building was built in 1996. The cost is 100,000.

**Justification/Benefit:** The Police Department Building is used 24/7 and the windows are not efficient causing energy loss on a consistent basis.

**Impact if not Completed:** The windows will also continue to deteriorate and be more problematic for energy efficiency in the building.

**Timeframe:** 6 months

**Replacement Frequency:** 25 years

**Operating Budget Impact:** Increase maintenance on items that are in poor condition.

**Funding Source:** Stabilization Fund

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Construction	\$100,000	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$100,000</b>
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>\$100,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$100,000</b>

**Basis of Cost Projection:** Estimates from vendors

**Submitted By:** Vincent Bomal \_\_\_\_\_ **Date:** 1/31/24 \_\_\_\_\_



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Recreation Building Improvements

**Department:** Facilities and Grounds **First Year Submission 2025** **Priority:** 2

**Description of Project:** New flooring, windows, and doors for the Recreation Building on Livingston Street. Flooring will cost 34,000 and Doors and window will cost 35,000

**Justification/Benefit:** The Recreation Building is used during the Summer and for voting during elections. The flooring has broken tiles which are a hazard, the windows and door are inefficient causing loss of heat and cooling. They are also not providing proper security for the building.

**Impact if not Completed:** The flooring will continue to deteriorate and be a greater hazard. The windows and doors will also continue to deteriorate and be more problematic for energy efficiency in the building.

**Timeframe:** 6 months

**Replacement Frequency:** 25 years

**Operating Budget Impact:** Increase maintenance on items that are in poor condition.

**Funding Source:** Stabilization Fund

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$69,000	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$69,000</b>
<b>Equipment</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$69,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$69,000</b>

**Basis of Cost Projection:** Estimates from vendors

**Submitted By:** Vincent Bomal **Date:** 1/31/24



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Project Name: HVAC Server Room

Department: Police First Year Submission Y Priority: High

Description of Project:  
HVAC Mini Split for Computer Server Room

Justification/Benefit:  
Our IT department is recommending that we get a better system to regulate the temperature in the computer server room. Currently there is a window unit that is not sufficient.

Impact if not Completed: The computer server may be negatively impacted due to the temperature not being regulated.

Timeframe: FY25 Replacement Frequency: 15 years

Operating Budget Impact: none

Funding Source: One time Capital expense.

Capital Funding Request						
Fiscal Year	2024	2025	2026	2027	2028	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	\$7,585	\$0.00	\$0.00	\$0.00	\$0.00	\$7,585
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$7,585</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$7,585</b>

Basis of Cost Projection: Direct quote Boston Mechanical Services.



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Project Name: Tactical Room Camera Quote

Department: Police First Year Submission Yes Priority: High

Description of Project:  
Security Camera for outside of our tactical room.

Justification/Benefit: We recognize that we have a lack of security on our tactical room which hold various weapons and ammunition. We believe having a camera on this room would be an appropriate measure for accountability of this area.

Impact if not Completed: Less secure room.

Timeframe: 1 year Replacement Frequency: 15 years

Operating Budget Impact: No operating budget impacts. One time expense.

Funding Source:

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	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	\$6,338	\$0.00	\$0.00	\$0.00	\$0.00	\$6,338
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Totals	\$6,338	\$0.00	\$0.00	\$0.00	\$0.00	\$6,338

Basis of Cost Projection: Quote

Submitted By: Chief Ryan Columbus

Date: 02-09-2024.



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Project Name: Senior Center

Department: Facilities & Grounds First Year Submission \_\_\_\_\_ Priority: \_\_\_\_\_

**Description of Project:** Install two new boilers at Senior Center

**Justification/Benefit:** Boilers have had issues last couple of years, and I see the problems as getting worse

**Impact if not Completed:** Loss of heat at the Senior Center interrupting programs and services, efficiency issues and spending on repairing these boilers each year.

**Timeframe:** \_\_\_\_\_ **Replacement Frequency:** 25 years

**Operating Budget Impact:** \$200,000

**Funding Source:** Stabilization Fund

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	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	\$200,000	\$0.00	\$0.00	\$0.00	\$200,000
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$0.00</b>	<b>\$200,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$200,000</b>

**Basis of Cost Projection:**



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

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

**Department:** Facilities and Grounds **First Year Submission 2023** **Priority:** 1

**Description of Project:** Fiscal Year 2026: \$150,000 to upgrade and improve Parking Lot at State Field at Livingston Recreation Complex; Fiscal Year 2027: \$150,000 to upgrade and improve parking lot near Funway Playground at Livingston Recreation Complex; Fiscal Year 2028: \$150,000 upgrade and improve parking lot at the Recreation Center at Livingston Recreation Complex: Fiscal Year 2029: \$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.

**Impact if not Completed:** Delaying improvements will be more costly there will be a better chance of larger more costly problems occurring. Also, the areas will continue to have potential safety issues with the deterioration of lots and facility.

**Timeframe:** 1 Year

**Replacement Frequency:** 15 years

**Operating Budget Impact:** Increase maintenance on items that are in poor condition.

**Funding Source:** Stabilization Fund

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$0.00	\$150,000	\$150,000	\$150,000	\$150,000	<b>\$600,000</b>
<b>Equipment</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Totals</b>	<b>\$0.00</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$600,000</b>

**Basis of Cost Projection:** Budget Estimate

**Submitted By:** Vincent Bomal **Date:** 1/31/24



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Library Roof

**Department:** Facilities and Grounds **First Year Submission 2025** **Priority:** 3

**Description of Project:** Fiscal Year 2028 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:** There is no significant impact if the painting is not undertaken with the acceptance of appearance of office and building looking rundown and dirty. The Electric could fail at any time and impact events on the Town Common

**Timeframe:** 6 months

**Replacement Frequency:** 40 years

**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:** Stabilization Fund

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$0.00	\$0.00	\$500,000	\$0.00	\$0.00	<b>\$500,000</b>
<b>Equipment</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Totals</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$500,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$500,000</b>

**Basis of Cost Projection:** Estimates from vendors

**Submitted By:** Vincent Bomal \_\_\_\_\_ **Date:** 1/31/24 \_\_\_\_\_

# **DPW General Fund**



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Equipment Repair & Replacement Program

**Department:** Public Works **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** Each piece of equipment is inventoried with replacement intervals that vary from 10-25 years based on recommendations by the American Public Works Association member organizations. The Town performs routine maintenance and updates the intervals, usually by extending them out, until they reach end of their useful / reliable lifecycle with the Town.

**Justification/Benefit:** Equipment has aged and rusted from constant salt exposure during winter operations. Combine this with equivalent mileage above 200,000 and engine hours ranging from 5,000 to 10,000 hours has caused equipment failures which require extensive repairs or have taken the vehicle off the road for safety.

**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 outsourcing. Tasks/programs may go unaddressed if equipment fails to operate such as street-sweeping, drain repair, sidewalk plowing etc.

**Timeframe:** On-going capital request **Replacement Frequency:** 10-25 years

**Operating Budget Impact:** Replacement of older vehicles will reduce repair costs within the operating budget. Outsourcing extensive repairs of vehicles will increase costs across departments.

**Funding Source:** Combination of Levy, Water and Sewer funding sources.

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Design/Engineer</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Construction</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Equipment</b>	\$430,000.00	\$167,000.00	\$1,140,000.00	\$240,000.00	\$805,000.00	<b>\$2,782,000.00</b>
<b>Contingency</b>	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
<b>Totals</b>	<b>\$430,000.00</b>	<b>\$167,000.00</b>	<b>\$1,140,000.00</b>	<b>\$240,000.00</b>	<b>\$805,000.00</b>	<b>\$2,782,000.00</b>

**Basis of Cost Projection:** Estimates from vendor quotes, verbal discussions, and inflation factors.

**Submitted By: Kevin Hardiman, Director of Public Works    Date: 2/1/2024**

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

Budget Cost Elements	2025	2026	2027	2028	2029	TOTAL
Site Acquisition						
Design/Eng.						
Construction						
Equipment	\$430,000.00	\$167,000.00	\$1,140,000.00	\$240,000.00	\$805,000.00	<b>\$2,782,000.00</b>

Fiscal Year	Veh #	Year	Description Of Purchase	Department	Cost GenFund	Cost Enterprise	Comments
<b>FY2025</b>							
	5	2014	Ford F-350	Highway/W&S	\$50,000.00	\$50,000.00	Replace w/similar - Old 5 to Replace #30 (2006 Explorer)
	20	2017	Ford F-550 Dump w/plow package	Highway	\$130,000.00		Replace w/similar
	22	1997	Ford F-350	Highway	\$100,000.00		Replace w/Same
				<b>Sub-total DPW: \$280,000.00</b>			
	10	2013	Ford F-350	Water/Sewer - WTP		\$100,000.00	Replace Explorer with Small Plow Pick-up
				<b>Sub-total Water/Sewer:</b>		<b>\$150,000.00</b>	
				<b>Total FY25</b>		<b>\$430,000.00</b>	
<b>FY2026</b>							
	60	2006	F-550 Dump w/plow package	Highway	\$140,000.00		Replace w/Same
					<b>\$140,000.00</b>		
				<b>Sub-total DPW: \$140,000.00</b>			
	605	1999	Asphalt Roller	Water/Sewer		\$12,000.00	Replace w/Same
	803	2006	Light Tower	Water/Sewer		\$15,000.00	Replace w/Same
				<b>Sub-total Water/Sewer:</b>		<b>\$27,000.00</b>	
				<b>Total FY26</b>		<b>\$167,000.00</b>	
<b>FY2027</b>							
	53	2005	6-Wheel Dump w/plow package	Highway	\$220,000.00		Replace w/Same
		1995	6-8 Yard Sander (slide-in)	Snow	\$20,000.00		Replace w/Same
					<b>\$240,000.00</b>		
	96	2005	Log Truck	Forestry	\$300,000.00		Replace w/Same
					<b>\$300,000.00</b>		
				<b>Sub-total DPW: \$540,000.00</b>			
	81	2003	Sterling Vac Truck	Water/Sewer		\$600,000.00	Replace w/Same
				<b>Sub-total Water/Sewer</b>		<b>\$600,000.00</b>	
				<b>Total FY27</b>		<b>\$1,140,000.00</b>	
<b>FY2028</b>							
	2	2017	Replace F-350 w/plow package	Highway	\$110,000.00		Replace w/Same
	61	2007	Replace F-550 Rack Truck w/plow package	Highway	\$130,000.00		Replace w/Same
					<b>\$240,000.00</b>		Replace w/Same
				<b>Sub-total DPW: \$240,000.00</b>			
				<b>Sub-total Water/Sewer:</b>		<b>\$0.00</b>	
				<b>Total FY28</b>		<b>\$240,000.00</b>	
<b>FY2029</b>							
	51	2007	6-Wheel Dump w/plow package	Highway	\$300,000.00		Replace w/Smaller Vehicle
	65	2013	Pelican Street Sweeper	Highway	\$250,000.00		Replace w/Same
	70	2007	Liquid Tank Truck	Highway	\$200,000.00		Replace w/Same
					<b>\$750,000.00</b>		Replace w/Same
				<b>Sub-total DPW: \$750,000.00</b>			
	14	2008	Bobcat	Water/Sewer		\$55,000.00	Replace w/Same
				<b>Sub-total Water/Sewer:</b>		<b>\$55,000.00</b>	
				<b>Total FY29</b>		<b>\$805,000.00</b>	



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Transportation: Pavement Management and Sidewalks

**Department:** Public Works Dept. **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** This request proposes the funding of an annual Transportation/Street Improvement Program including preventative maintenance, resurfacing, 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 (MassDOT). Acceptance of the policy by MassDOT 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 improvement projects that will provide safe and accessible options for all modes of travel including walking, biking, transit, and vehicles. Whipple Road from Pleasant Street to Chandler Street is identified in the Complete Streets Project Prioritization Plan and Pedestrian Mobility Master Plan. This project includes construction of the first phase of that sidewalk segment on Whipple Road from Pleasant Street to Ferncroft Road.

In FY25, the Town proposes the following roadway treatments: crack-seal approximately four miles of roads, micro-surfacing approximately one mile of road, and resurfacing of approximately four miles of roads based on the Pavement Management Plan developed in FY23 and also roadways where water main replacement work was recently completed. 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 repair and installation is also included in this request. Locations and specifications have been established as part of a sidewalk plan developed in FY18. In FY25, various streets will be resurfaced using Chapter 90 funds and the General Fund based on our five-year paving schedule.

**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 in need of preventative maintenance. At this time, roads paved 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.

**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. A safe sidewalk network will not be provided for pedestrians.

**Timeframe:** Projects are included on the attached FY25-FY29 spreadsheet.

**Replacement Frequency:** 5-25 years



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Operating Budget Impact:** Engineering Division, Highway/Forestry, and Water & Sewer Division personnel time will be required to support the projects to be completed. There will be increased costs for sidewalk maintenance.

**Funding Source:** Levy and State Aid

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$895,000	\$895,000	\$1,295,000	\$895,000	\$895,000	\$4,875,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$895,000</b>	<b>\$895,000</b>	<b>\$1,295,000</b>	<b>\$895,000</b>	<b>\$895,000</b>	<b>\$4,875,000</b>

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

**Submitted By:** Kevin Hardiman, Director of Public Works    **Date:** 2/2/2024



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Transportation: Project Development and Design

**Department:** Public Works Dept. **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** This project will consist of developing design plans and specifications for sidewalk reconstruction along Livingston Street from Roys Way to Hazel Field and for sidewalk reconstruction along Chandler Street from Foster Road to Indian Hill Road. The project construction schedule will be dependent on available funding.

**Justification/Benefit:** The Town must provide engineered design specifications for certain construction projects to ensure engineering and construction standards are met. In addition, various metrics are applied to ensure a plan will work as designed given site criteria and constraints. The Town has developed a Pedestrian Mobility Master Plan, which identifies thirteen (13) arterial roadways where sidewalk construction will improve pedestrian safety. These locations are part of the Town’s existing sidewalk network but are in poor condition. Reconstruction of these sidewalks along these key pedestrian corridors will allow for their continued use and will provide a safe pathway for pedestrians to utilize.

**Impact if not Completed:** Not promoting safe accessible multi-modal transportation options, including walking, biking, transit, and vehicular, for all ages and abilities. Lack of well-maintained sidewalks may put pedestrians at risk.

**Timeframe:** Generally, project development will be completed in the year preceding project construction.

**Replacement Frequency:** 25 years

**Operating Budget Impact:** Increased costs for sidewalk maintenance.

**Funding Source:** State Aid

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0.00	\$0	\$0
<b>Totals</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$100,000</b>	<b>\$500,000</b>

**Basis of Cost Projection:**  
Engineering Proposals



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Transportation: Traffic Improvements

**Department:** Public Works Dept.    **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** Projects under this category are one-time projects intended to improve roadway function, enhance traffic safety, and preserve public and private property. The project scheduled for FY25 is upgrades to the traffic signal equipment at the intersection of Andover Street (MA Route 133) and Ames Pond Drive.

**Justification/Benefit:** An analysis of the existing traffic signal equipment and the intersection was performed in 2018. The analysis identified recommended improvements to the traffic signal equipment and the roadway that will allow for the signalized intersection to operate more efficiently and will promote increased safety for pedestrians, cyclists, and motorists.

**Impact if not Completed:** If the improvements are not completed, the intersection will not operate as efficiently as feasible. Users of the intersection may experience longer delays and the existing equipment may underserve the safety needs of the intersection which will see increased traffic due to residential and commercial development in the area.

**Timeframe:** The Andover Street (MA Route 133) at Ames Pond Drive Signal Improvements are planned for FY25.

**Replacement Frequency:** 25-50 years

**Operating Budget Impact:** The signal improvements at the Andover Street (MA Route 133) at Ames Pond Drive intersection may increase energy costs.

**Funding Source:** State Aid

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$70,000	\$60,000	\$200,000	\$55,000	\$200,000	\$585,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$70,000</b>	<b>\$60,000</b>	<b>\$200,000</b>	<b>\$55,000</b>	<b>\$200,000</b>	<b>\$585,000</b>

**Basis of Cost Projection:**  
Engineer's Estimate

**Submitted By:** Kevin Hardiman, Director of Public Works    **Date:** 2/1/2024

**Transportation  
5-Year Capital Cost**

Budget Cost Elements	FY25	FY26	FY27	FY28	FY29	TOTAL
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Eng.	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Construction	\$965,000	\$955,000	\$1,495,000	\$950,000	\$1,095,000	\$5,460,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$1,065,000</b>	<b>\$1,055,000</b>	<b>\$1,595,000</b>	<b>\$1,050,000</b>	<b>\$1,195,000</b>	<b>\$5,960,000</b>

Fiscal Year Program	Location	Cost	Fund	
<b>FY25</b>	<b>Cal 2024-2025</b>			
<b>Road Preventative Maintenance</b>				
Crack sealing	Various locations based on Pavement Management Plan	\$50,000	Chapter 90	Chapter 90
Nova Chip	Various locations based on Pavement Management Plan	\$150,000	Chapter 90	Grants Gen Fund
		<b>\$200,000</b>		
<b>Reconstruction/Resurfacing</b>				
Grind and Overlay	Various locations based on Pavement Management Plan	\$175,000	Chapter 90	
Full-Depth Reconstruction	Various locations based on Pavement Management Plan	\$270,000	Chapter 90	
		<b>\$445,000</b>		
<b>Sidewalks/Complete Streets</b>				
Sidewalk Construction	Whipple Road - Phase 1 Construction (Pleasant St. to Fercroft Rd-South)	\$250,000	General Fund	
		<b>\$250,000</b>		
<b>Improvement Projects</b>				
Signal Improvements	Andover Street (Rte. 133) at Ames Pond Drive	\$70,000	Chapter 90	
		<b>\$70,000</b>		
<b>Project Development</b>				
Sidewalk Design	Livingston Street from Roys Way to Hazel Field (Sidewalk Reconstruction - Design) & Chandler Street from Foster Road to Indian Hill Road (Sidewalk Reconstruction - Design)	\$50,000	Chapter 90	
		\$50,000	Chapter 90	
		<b>\$100,000</b>		
	<b>Total Cost FY25</b>	<b>\$1,065,000</b>		
<b>FY26</b>	<b>Cal 2025-2026</b>			
<b>Road Preventative Maintenance</b>				
Crack sealing	Various locations based on Pavement Management Plan	\$50,000	Chapter 90	Chapter 90
Nova Chip	Various locations based on Pavement Management Plan	\$150,000	Chapter 90	Grants Gen Fund
		<b>\$200,000</b>		
<b>Reconstruction/Resurfacing</b>				
Grind and Overlay	Various locations based on Pavement Management Plan	\$175,000	Chapter 90	
Full-Depth Reconstruction	Various locations based on Pavement Management Plan	\$270,000	Chapter 90	
		<b>\$445,000</b>		
<b>Sidewalks/Complete Streets</b>				
Sidewalk Construction	Whipple Road - Phase 2 Construction (Fercroft Rd.-South to Pine Street)	\$250,000	General Fund	
		<b>\$250,000</b>		
<b>Improvement Projects</b>				
Signal Improvements	East Street at Livingston St.	\$60,000	Chapter 90	
		<b>\$60,000</b>		
<b>Project Development</b>				
Sidewalk Design	North Street from Frasca Field to I-495 & Colonial Drive from Water Booster Station to Main Street	\$100,000	Chapter 90	
		<b>\$100,000</b>		
	<b>Total Cost FY26</b>	<b>\$1,055,000</b>		
<b>FY27</b>	<b>Cal 2026-2027</b>			
<b>Road Preventative Maintenance</b>				
Crack sealing	Various locations based on Pavement Management Plan	\$50,000	Chapter 90	Chapter 90
Nova Chip	Various locations based on Pavement Management Plan	\$150,000	Chapter 90	Grants Gen Fund
		<b>\$200,000</b>		
<b>Reconstruction/Resurfacing</b>				
Grind and Overlay	Various locations based on Pavement Management Plan	\$175,000	Chapter 90	
Full-Depth Reconstruction	Various locations based on Pavement Management Plan	\$270,000	Chapter 90	
		<b>\$445,000</b>		
<b>Sidewalks/Complete Streets</b>				
Sidewalk Construction	Whipple Road - Phase 3 Construction (Pine St. to Chandler St.)	\$250,000	General Fund	
Complete Streets Construction	Upper North Street and Colonial Drive	\$400,000	Complete Streets Grant	
	Dependent on MADOT grant award			
		<b>\$650,000</b>		
<b>Improvement Projects</b>				
Intersection Improvements	Main Street at Pleasant Street and East Street - Non-Participating Agreement	\$200,000	Chapter 90	
		<b>\$200,000</b>		
<b>Project Development</b>				
Sidewalk Design	Chandler Street from Indian Hill Road to Whipple Road	\$100,000	Chapter 90	
		<b>\$100,000</b>		
	<b>Total Cost FY27</b>	<b>\$1,595,000</b>		
<b>FY28</b>	<b>Cal 2027-2028</b>			
<b>Road Preventative Maintenance</b>				
Crack sealing	Various locations based on Pavement Management Plan	\$50,000	Chapter 90	Chapter 90
Nova Chip	Various locations based on Pavement Management Plan	\$150,000	Chapter 90	Grants Gen Fund
		<b>\$200,000</b>		
<b>Reconstruction/Resurfacing</b>				
Grind and Overlay	Various locations based on Pavement Management Plan	\$175,000	Chapter 90	
Full-Depth Reconstruction	Various locations based on Pavement Management Plan	\$270,000	Chapter 90	
		<b>\$445,000</b>		
<b>Sidewalks/Complete Streets</b>				
Sidewalk Construction	Livingston Street from Roys Way to Hazel Field (Sidewalk Reconstruction)	\$250,000	General Fund	
		<b>\$250,000</b>		
<b>Improvement Projects</b>				
Signal Improvements	North St. at International Place	\$55,000	Chapter 90	
		<b>\$55,000</b>		
<b>Project Development</b>				
Sidewalk Design	Chandler Street from East Street to Livingston Street	\$100,000	Chapter 90	
		<b>\$100,000</b>		
	<b>Total Cost FY28</b>	<b>\$1,050,000</b>		
<b>FY29</b>	<b>Cal 2028-2029</b>			
<b>Road Preventative Maintenance</b>				
Crack sealing	Various locations based on Pavement Management Plan	\$50,000	Chapter 90	Chapter 90
Nova Chip	Various locations based on Pavement Management Plan	\$150,000	Chapter 90	Grants Gen Fund
		<b>\$200,000</b>		
<b>Reconstruction/Resurfacing</b>				
Grind and Overlay	Various locations based on Pavement Management Plan	\$175,000	Chapter 90	
Full-Depth Reconstruction	Various locations based on Pavement Management Plan	\$270,000	Chapter 90	
		<b>\$445,000</b>		
<b>Sidewalks/Complete Streets</b>				
Sidewalk Construction	Chandler Street from Foster Road to Indian Hill Road (Sidewalk Reconstruction)	\$250,000	General Fund	
		<b>\$250,000</b>		
<b>Improvement Projects</b>				
Intersection Improvements	Shawsheen St/Beech St/Foster Rd/Patten Rd - Non-Participating Agreement	\$200,000	Chapter 90	
		<b>\$200,000</b>		
<b>Project Development</b>				
Sidewalk Design	Location to be determined based on Prioritization Plan	\$100,000	Chapter 90	
		<b>\$100,000</b>		
	<b>Total Cost FY29</b>	<b>\$1,195,000</b>		

**Roadway Projects Spring of 2024-Fall of 2024: Funding Chapter 90 and Town Budget Appropriation**  
*(The following road list is subject to change based on bid pricing)*

**RESURFACING ~\$590,000 (FY24 Funds)**

<u>Name</u>	<u>From</u>	<u>To</u>	<u>Treatment</u>	
Trull Brook Lane	Hood Road	Dead-End	RECLAIM AND 4" PAVE	
Green Meadow Lane	Andover Street	Cul-de-sac	2" MILL AND OVERLAY	
Cleghorn Road	Trull Road	Trull Road	2" MILL AND OVERLAY	
Hood Road	Andover Street	River Road	2" MILL AND OVERLAY	
Guile Road	Trull Road	Martin Road	2" MILL AND OVERLAY	
Whipple Road	End of DW at #836 Whipple	End of DW at #796 Whipple	2" MILL AND OVERLAY	Water Trench Only
Whipple Road	Pond Street	Pine Street	2" MILL AND OVERLAY	Water Trench Only
Pine Street	Whipple Road	End of DW at #150	2" MILL AND OVERLAY	Water Trench Only
Rogers Street	Whipple Road	End of DW at #467	2" MILL AND OVERLAY	Water Trench Only
Livingston St	Parking Lot	to Park	2 CROSSWALKS	

**TOTAL 2.95 MILES**

**MICROSURFACING 150,000 (FY24)**

<u>Name</u>	<u>From</u>	<u>To</u>	<u>Treatment</u>
Knollwood Road	Entire	Street	MICROSEALING
Rhoda Street	Entire	Street	MICROSEALING
Oliver Street	Entire	Street	MICROSEALING
Amos Street	Entire	Street	MICROSEALING
Ida Street	Entire	Street	MICROSEALING
Herbert Street	Entire	Street	MICROSEALING

**TOTAL 0.95 MILES**

**CRACKSEALING 50,000 (FY24)**

<u>ROAD NAME</u>	<u>FROM</u>	<u>TO</u>	<u>TREATMENT</u>	<u>NOTES</u>
River Rd	Andover St	To Culvert Crossing	CRACKSEALING	
Trull	Andover St	495 Overpass	CRACKSEALING	
Foster Road	Entire	Street	CRACKSEALING	
Beech Street	Shawsheen St	#128 Beech St	CRACKSEALING	
Driftwood	Entire	Street	CRACKSEALING	
Sycamore Drive	Entire	Street	CRACKSEALING	
Easement Road	Entire	Street	CRACKSEALING	
Virginia Road	Entire	Street	CRACKSEALING	
Coburn Avenue	Entire	Street	CRACKSEALING	
Linwood Avenue	Entire	Street	CRACKSEALING	
Hazelwood Avenue	Entire	Street	CRACKSEALING	
David Morris Road	Entire	Street	CRACKSEALING	
Pinnacle Street	Entire	Street	CRACKSEALING	

**TOTAL 5.45 MILES**

**Sidewalk and Transportation Projects Spring of 2024-Spring of 2025**

<b>Project Type</b>	<b>Location</b>	<b>Description</b>	<b>Budget</b>	
Sidewalk Construction	Whipple Road Phase I	Sidewalk construction - Pleasant Street to Ferncroft Road	250,000	General Fund
Signal Improvements	Andover Street at Ames Pond Drive	Upgrade traffic signal equipment, pavement striping, etc.	70,000	Chapter 90
Sidewalk Design	Lower Chandler Street: Whipple Road to Indian Hill	Sidewalk design	50,000	Chapter 90
Sidewalk Design	Livingston Street from Roys Way to Hazel Field	Sidewalk design	50,000	Chapter 90

# **DPW Water Enterprise**





## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Basis of Cost Projection:**

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

**Submitted By:** Kevin Hardiman, Director of Public Works **Date:** 2/2/2024



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Project Name: Water Meter Replacement Program

Department: Public Works First Year Submission \_\_\_\_\_ Priority: \_\_\_\_\_

**Description of Project:** Replacement of non-functioning water meter endpoints and meters. Virtually all meter replacements are due to dead batteries, which last approximately 10 years. The majority of replacements will likely be performed by contractors with small number done with in-house staff.

**Justification/Benefit:** Mandated accurate water metering per DEP and EPA. This program ensures customer water meters are functional so consumption can be accurately calculated and billed. Estimated reads are inaccurate, time consuming, inconvenient for the customer, and problematic from a consumption and revenue calculating standpoint.

**Impact if not Completed:** Inaccurate water bills and water consumption data, customer concerns, violations from DEP.

Timeframe: On-going capital request Replacement Frequency: ~10 years

**Operating Budget Impact:** Reduces staff appointments for non-functional meters, reduces staff time on abatements, and ensures accurate billing and rate collections.

Funding Source: Water Enterprise

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$0	\$4,500,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
Totals	\$1,500,000	\$1,500,000	\$1,500,000	\$0	\$0	\$4,500,000

**Basis of Cost Projection:** Estimates from supply vendor quotes and contractors

Submitted By: Kevin Hardiman Date: 2/6/2024



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Replace Raw Water and Finished Water Pumps & VFDs

**Department:** Public Works **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** Replace Water Treatment Plant Raw and Finished Water Pumps including VFDs (Set 2 of 4)

**Justification/Benefit:** Raw and finish water pumps are reaching end of life expectancy. Ensures operational integrity and drastically reduces maintenance costs and concerns.

**Impact if not Completed:** Risk of failure to critical equipment of the Water Treatment Plant operation.

**Timeframe:** 1 year

**Replacement Frequency:** ~25 years

**Operating Budget Impact:** Reduces maintenance costs on existing pumps and likely energy savings with more efficient equipment.

**Funding Source:** Water Enterprise

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$400,000	\$500,000	\$200,000	\$150,000	\$250,000	\$1,500,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$400,000</b>	<b>\$500,000</b>	<b>\$200,000</b>	<b>\$150,000</b>	<b>\$250,000</b>	<b>\$1,500,000</b>

**Basis of Cost Projection:** Estimates from consultant

**Submitted By:** Kevin Hardiman **Date:** 2/6/2024



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Hydrant Replacement Program

**Department:** Public Works **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** Replacement of outdated, damaged, or non-functional fire hydrants system wide. Often a hybrid of contractor replacement and stock purchase for in-house crew installation.

**Justification/Benefit:** Mandated work for public safety and water quality. Ensuring hydrants are functional is critical for both Fire Department operations and Water Division maintenance.

**Impact if not Completed:** Fire protection hazards, water quality concerns due to regular maintenance flushing as well as water main break repair flushing. Costly repairs to existing hydrants.

**Timeframe:** On-going capital request

**Replacement Frequency:** 50 years

**Operating Budget Impact:** Replacement of older and outdated hydrants standardizes parts and drastically reduces repairs required.

**Funding Source:** Water Enterprise

<b>Capital Funding Request</b>						
<b>Fiscal Year</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>Totals</b>
<b>Site Acquisition</b>	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Design/Engineer</b>	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Construction</b>	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	<b>\$750,000</b>
<b>Equipment</b>	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Contingency</b>	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Totals</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$150,000</b>	<b>\$750,000</b>

**Basis of Cost Projection:** Estimates from construction contract bidding and supply vendor quotes.

**Submitted By:** Kevin Hardiman **Date:** 2/6/2024

**Water  
5-Year Capital Cost**

Budget Cost Elements	FY25	FY26	FY27	FY28	FY29	TOTAL
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Eng.	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$7,450,000	\$7,550,000	\$7,250,000	\$5,700,000	\$5,800,000	\$33,750,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$7,450,000</b>	<b>\$7,550,000</b>	<b>\$7,250,000</b>	<b>\$5,700,000</b>	<b>\$5,800,000</b>	<b>\$33,750,000</b>

Fiscal Year	Project Name	Work Description	Comments/Location	Cost
<b>FY25 Cal 2024-2025</b>				
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$150,000 Enterprise
	Water Distribution Upgrades	Design - South Tewksbury Phase III Design - Hill Street Construction - Fringle Street Construction - South Tewksbury Phase III Construction - Hill Street		\$5,400,000 Enterprise
	Water Meter Replacement	Three-year water meter replacement program		\$1,500,000 Enterprise
<b>Water Plant Improvement</b>				
	Water Treatment Plant Upgrades	Replace Raw and Finished Water Pumps including VFDs - Set 2 of 4		\$400,000 Enterprise
<b>Total Cost FY25</b>				<b>\$7,450,000</b>
<b>FY26 Cal 2025-2026</b>				
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$150,000 Enterprise
	Water Distribution Upgrades	Design - William G Drive neighborhood Design - Cardigan Road neighborhood Construction - William G Drive neighborhood Construction - Cardigan Road neighborhood Construction - Shawsheen St., Beech St., Foster Rd., Patten Rd. Construction - Main Street Tie-Over		\$5,400,000 Enterprise
	Water Meter Replacement	Three-year water meter replacement program		\$1,500,000 Enterprise
<b>Water Plant Improvement</b>				
	Water Treatment Plant Upgrades	Replace Rapid Mixers and Flocculators in Sedimentation Basin Nos. 3 and 4		\$500,000 Enterprise
<b>Total Cost FY26</b>				<b>\$7,550,000</b>
<b>FY27 Cal 2026-2027</b>				
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$150,000 Enterprise
	Water Distribution Upgrades	Design - South Tewksbury Phase IV Design - Shawsheen St., Beech St., Foster Rd., Patten Rd. Design - Longmeadow, Newton, Marshall, Nelson Construction - South Tewksbury Phase IV Construction - Shawsheen St., Beech St., Foster Rd., Patten Rd. Construction - Longmeadow, Newton, Marshall, Nelson		\$5,400,000 Enterprise
	Water Meter Replacement	Three-year water meter replacement program		\$1,500,000 Enterprise
<b>Water Plant Improvement</b>				
	Water Treatment Plant Upgrades	PAC System Improvements		\$200,000
<b>Total Cost FY27</b>				<b>\$7,250,000</b>
<b>FY28 Cal 2027-2028</b>				
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$150,000 Enterprise
	Water Distribution Upgrades	Design - Pleasant, Summer, Dewey, Helvetia, Munro Construction - Pleasant, Summer, Dewey, Helvetia, Munro		\$5,400,000 Enterprise
<b>Water Plant Improvement</b>				
	Water Treatment Plant Upgrades	Clearwell Improvements		\$150,000
<b>Total Cost FY28</b>				<b>\$5,700,000</b>
<b>FY29 Cal 2028-2029</b>				
<b>Water Distribution Improvements</b>				
	Hydrant Replacement/Install	Replace older and terminal hydrants at various locations based on survey		\$150,000 Enterprise
	Water Distribution Upgrades	Design - Based on Water Main Replacement Plan Construction - Based on Water Main Replacement Plan		\$5,400,000 Enterprise
<b>Water Plant Improvement</b>				
	Water Treatment Plant Upgrades	Improvements based on Capital Plan and Need		\$250,000
<b>Total Cost FY29</b>				<b>\$5,800,000</b>

**Water System and Treatment Projects Spring of 2024-Spring of 2025**

<b>Project Type</b>	<b>Location</b>	<b>Description</b>	<b>Length (ft)</b>	<b>Budget</b>	<b>Notes</b>
Water Main Replacement	Pringle Street neighborhood	Replace AC water main	6,900	2,350,000	Finalizing design for replacement in FY25
Water Main Replacement	South Tewksbury Phase III	Replace AC water main	7,750	2,650,000	GCG Proposal Pending for FY25 Design and CY25 Construction
Water Main Replacement	Hill Street	Replace AC water main	2,000	685,000	Design Proposals Pending from GCG. Have existing proposal from CES. Planned for construction in FY25. May need to bump back to a later FY depending on available funds.
Filtration Upgrades	Water Treatment Plant	Replace Raw Water Pumps and VFDs 2 of 4	N/A	400,000	
Distribution Repair	Colonial Drive	Replace two Variable Frequency Drives	N/A	200,000	Project is ongoing using Existing Funds
Water Main Replacement	Beech Street neighborhood	Replace AC/CI water mains	5,600	1,900,000	Construction FY24 funded by existing Water Funds (8231-589879 and 8232-589879)
Water Main Replacement	Fiske Street neighborhood	Replace AC water main	4,860	1,650,000	Construction FY24 funded by existing Water Funds (8231-589879 and 8232-589879)
Filtration Upgrades	Water Treatment Plant	Residuals Handling Disposal System Upgrade	N/A	TBD	Awaiting design proposals
Storage Tank Improvements	Astle Street Elevated Tank	Tank rehabilitation; painting and repairs	N/A	2,200,000	Project is ongoing using Existing Funds

<b>Pipe Material (Length in Feet)</b>							
<b>Size (in.)</b>	<b>AC</b>	<b>CI</b>	<b>DI</b>	<b>PLASTIC</b>	<b>STEEL</b>	<b>WI</b>	<b>UNKOWN</b>
<b>2</b>	1,283	0	248	702	0	13,020	1,642
<b>4</b>	0	0	502	0	0	0	0
<b>6</b>	170,961	89,148	37,134	0	0	0	8,971
<b>8</b>	85,932	33,264	247,584	7,218	0	0	9,140
<b>10</b>	1,019	6,563	4,018	0	0	0	0
<b>12</b>	180	15,370	49,838	0	840	0	275
<b>16</b>	0	2,503	32,947	0	0	0	174
<b>18</b>	0	1,104	0	0	0	0	0
<b>20</b>	0	0	18,068	0	0	0	0
<b>24</b>	0	0	4,140	0	0	0	0
<b>Total (ft.)</b>	<b>259,375</b>	<b>147,952</b>	<b>394,479</b>	<b>7,920</b>	<b>840</b>	<b>13,020</b>	<b>20,202</b>
<b>Total (mi.)</b>	<b>49.1</b>	<b>28.0</b>	<b>74.7</b>	<b>1.5</b>	<b>0.2</b>	<b>2.5</b>	<b>3.8</b>

AC- Asbestos Cement, CI - Cast Iron, DI - Ductile Iron, WI Wrought Iron

# **DPW Sewer Enterprise**



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Sewer Inflow and Infiltration

**Department:** Public Works Dept. **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** This project is an on-going annual request for 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 MassDEP, who has 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 MassDEP. Initial investigations were conducted as early as 2012 and repairs made as recently as 2017. Continued investigations of 14 primary sub-basins are required to specifically identify locations of structural failures, and target repairs.

**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 seasonal high groundwater 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%, and 31% respectively, during the high groundwater season. I/I removal is also a requirement of the current discharge permit issued by EPA in September 2019.

**Impact if not Completed:** Tewksbury's sewer enterprise operates under regulations promulgated by MassDEP. Each year, Tewksbury is required to investigate its system and make repairs. The investigation for I/I sources also allows 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 of the investment made in the sewer network. By finding and eliminating extraneous flow, the increased capacity of the system is maintained over a greater number of years. Also, peak flow may surcharge sewer collection pipe capacity and contribute to residential sewer system backups, causing damage and cost to the Town.

**Timeframe:** Manhole and pipe repairs will be contracted out for FY2025. Capital appropriations currently exist for FY2025 pipe repairs.

**Replacement Frequency:** 5-25 years

**Operating Budget Impact:** Engineering Division and Sewer Division personnel time will be required to support the projects to be completed.

**Funding Source:** Sewer Enterprise Fund



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$50,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,050,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$50,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$1,050,000</b>

**Basis of Cost Projection:**  
Engineer's Estimate

**Submitted By:** Kevin Hardiman, Director of Public Works **Date:** 2/1/2024



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Sewer Pump Station Improvements

**Department:** Public Works Dept. **First Year Submission** \_\_\_\_\_ **Priority:** \_\_\_\_\_

**Description of Project:** This request is comprised of various projects to ensure reliable on-going operation of sewer pump stations. The town-wide sewer collection system utilized forty-seven (47) sewer pump stations. These stations were constructed anywhere from 1981-2009. A Sewer Pump Station Assessment was performed to understand what repairs, improvements, and upgrades are needed at each of the pump stations. Types of projects include upgrades to control panels and sensors, replacement of pumps, and installation of new equipment to improve the performance of individual stations.

**Justification/Benefit:** These repairs, improvements, and upgrades will be implemented to ensure the reliability of the pump stations.

**Impact if not Completed:** Alarms at these stations will continue to require the need for emergency response, many of which occur after regular DPW working hours. Pump failures will reduce the expected life cycle of the pumps, which would then need to be replaced. Pump Station backups could occur if emergency response lags or during periods of high flow while pumps are out of service.

**Timeframe:** Pump Station Improvements shall be completed during the FY25 budget year.  
**Replacement Frequency:** 25 years

**Operating Budget Impact:** Water & Sewer Division overtime should be reduced. Electric and Gas utility costs may increase with the additional equipment.

**Funding Source:** Sewer Enterprise Fund

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$400,000	\$350,000	\$350,000	\$350,000	\$350,000	\$1,800,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$400,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$350,000</b>	<b>\$1,800,000</b>

**Basis of Cost Projection:**  
Engineer's Estimate

**Submitted By:** Kevin Hardiman, Director of Public Works **Date:** 2/1/2024

**Sewer  
5-Year Capital Cost**

Budget Cost Elements	FY25	FY26	FY27	FY28	FY29	TOTAL
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Eng.	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$450,000	\$600,000	\$600,000	\$600,000	\$600,000	\$2,850,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>TOTAL</b>	<b>\$450,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$600,000</b>	<b>\$2,850,000</b>

Fiscal Year Program	Project Name	Work Description	Comments/Location	Cost
<b>FY25 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		\$0
	Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2023		\$50,000
<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 \$150,000
<b>Total Cost FY25</b>				<b>\$450,000</b>
<b>FY26 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		\$200,000
	Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2024		\$50,000
<b>Pump Station Improvements</b>				
	Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$350,000
<b>Total Cost FY26</b>				<b>\$600,000</b>
<b>FY27 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		\$200,000
	Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2025		\$50,000
<b>Pump Station Improvements</b>				
	Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$350,000
<b>Total Cost FY27</b>				<b>\$600,000</b>
<b>FY28 Cal yr. 2027-2028</b>				
<b>Infiltration and Inflow (I/I) Control</b>				
	Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$200,000
	Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2026		\$50,000
<b>Pump Station Improvements</b>				
	Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$350,000
<b>Total Cost FY28</b>				<b>\$600,000</b>
<b>FY29 Cal yr. 2028-2029</b>				
<b>Infiltration and Inflow (I/I) Control</b>				
	Pipe Repair and Replace	Dig and Replace/Slip Lining Based on FY23-24 Camera/Investigation		\$200,000
	Manhole Repair/ adjustment	Adjust sewer manholes based on inventory of locations winter 2027		\$50,000
<b>Pump Station Improvements</b>				
	Design and Construction	Implement improvements to Pumps Stations based on FY23 Facility Assessment		\$350,000
<b>Total Cost FY29</b>				<b>\$600,000</b>

**Sewer Projects Spring of 2024-Fall of 2025**

<b>Project Type</b>	<b>Location</b>	<b>Description</b>	<b>Budget</b>
Pipe Repair and Replace	Based on FY23-24 camera/investigation	Dig and replace/repair sewer pipes	-
Manhole Repair/adjustment	Based on 2023 winter inventory	Repair/adjust sewer manholes	50,000 Sewer Enterprise
Design and Construction	Based on FY23 Facility Assessment	Implement improvements to Pump Stations	250,000 Sewer Enterprise
Design and Construction	East Street Pump Station	Design and construction of odor mitigation	150,000 Sewer Enterprise

# **DPW Stormwater Enterprise**



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

**Project Name:** Drain/Stormwater System Management

**Department:** Public Works Dept. **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 project identified for this program in Fiscal Year 2025 include improvements to the drainage system in the Van Buren Road neighborhood, BMP Retrofit Project, design of drainage system improvements at Franklin Street, Glenwood Road, School Street, and design of culvert improvements on Pinnacle Street near Dunvegan Road.

**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 increased 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, increased emergency vehicle response times, and unsafe conditions for all vehicle travel.

**Timeframe:** Projects are included on the attached spreadsheet inclusive of Fiscal Years 2025-2029.

**Replacement Frequency:** 25 years

**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 Fund



## Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0	\$0	\$0	\$0	\$0	\$0
Design/Engineer	\$175,000	\$150,000	\$50,000	\$160,000	\$60,000	\$595,000
Construction	\$250,000	\$250,000	\$600,000	\$200,000	\$600,000	\$1,900,000
Equipment	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0
<b>Totals</b>	<b>\$425,000</b>	<b>\$400,000</b>	<b>\$650,000</b>	<b>\$360,000</b>	<b>\$660,000</b>	<b>\$2,495,000</b>

**Basis of Cost Projection:**

Cost projection based on Engineer's Estimate; does not include cost for MS4 Stormwater permit projects.

**Submitted By:** Kevin Hardiman, Director of Public Works    **Date:** 2/1/2024

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

Budget Cost Elements	FY25	FY26	FY27	FY28	FY29	TOTAL
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Design/Eng.	\$175,000.00	\$150,000.00	\$50,000.00	\$160,000.00	\$60,000.00	\$595,000.00
Construction	\$250,000.00	\$250,000.00	\$600,000.00	\$200,000.00	\$600,000.00	\$1,900,000.00
Contingency	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>TOTAL</b>	<b>\$425,000.00</b>	<b>\$400,000.00</b>	<b>\$650,000.00</b>	<b>\$360,000.00</b>	<b>\$660,000.00</b>	<b>\$2,495,000.00</b>

Fiscal Year	Program	Location	Cost	Fund
<b>FY25</b>	<b>Cal 2024-2025</b>			
<b>Drains</b>				
Drainage System Improvement	Van Buren Road drainage system	Construction	\$250,000.00	SW Enterprise
			<b>\$250,000.00</b>	
<b>Stormwater Compliance</b>				
			<b>\$0.00</b>	
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Franklin, School, Glenwood, and Adams area	Engineering Services	\$75,000.00	SW Enterprise
Culvert Replacement Design	Upper Pinnacle Street Culvert at Dunvegan Road	Engineering Services	\$100,000.00	SW Enterprise
			<b>\$175,000.00</b>	
		<b>Total Cost FY25</b>	<b>\$425,000.00</b>	
<b>FY26</b>	<b>Cal 2025-2026</b>			
<b>Drains</b>				
Drainage System Improvement	Franklin, School, Glenwood, Adams area	Construction	\$250,000.00	SW Enterprise
			<b>\$250,000.00</b>	
<b>Stormwater Compliance</b>				
			<b>\$0.00</b>	
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Florence Avenue drainage system	Engineering Services	\$50,000.00	SW Enterprise
Culvert Replacement Design	Heather Row culvert	Engineering Services	\$100,000.00	SW Enterprise
			<b>\$150,000.00</b>	
		<b>Total Cost FY26</b>	<b>\$400,000.00</b>	
<b>FY27</b>	<b>Cal 2026-2027</b>			
<b>Drains</b>				
Drainage System Improvement	Florence Avenue drainage system	Construction	\$200,000.00	SW Enterprise
Culvert Replacement	Upper Pinnacle Street headwall at Dunvegan Road	Construction	\$400,000.00	SW Enterprise
			<b>\$600,000.00</b>	
<b>Stormwater Compliance</b>				
			<b>\$0.00</b>	
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Hillcrest Road at Chandler Street	Engineering Services	\$50,000.00	SW Enterprise
			<b>\$50,000.00</b>	
		<b>Total Cost FY27</b>	<b>\$650,000.00</b>	
<b>FY28</b>	<b>Cal 2027-2028</b>			
<b>Drains</b>				
Drainage System Improvement	Hillcrest Road at Chandler Street	Construction	\$200,000.00	SW Enterprise
			<b>\$200,000.00</b>	
<b>Stormwater Compliance</b>				
			<b>\$0.00</b>	
<b>Project Development and Permitting</b>				
Drainage System Improvement Design	Trull Brook Lane	Engineering Services	\$60,000.00	SW Enterprise
Headwall and Culvert Repair Design	Kendall Road (#242) Culvert Replacement	Engineering Services	\$100,000.00	SW Enterprise
			<b>\$160,000.00</b>	
		<b>Total Cost FY28</b>	<b>\$360,000.00</b>	
<b>FY29</b>	<b>Cal 2028-2029</b>			
<b>Drains</b>				
Drainage System Improvement	Location based on Stormwater Assessment and Resident concerns	Construction	\$200,000.00	SW Enterprise
Headwall and Culvert Repair	Kendall Road (#242) Culvert Replacement	Construction	\$400,000.00	SW Enterprise
			<b>\$600,000.00</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	\$60,000.00	SW Enterprise
			<b>\$60,000.00</b>	
		<b>Total Cost FY29</b>	<b>\$660,000.00</b>	

**Drainage Projects Spring of 2024-Spring of 2025**

<b>Project Type</b>	<b>Location</b>	<b>Description</b>	<b>Budget</b>	<b>Notes</b>
Drainage System Improvement	Franklin, School, Glenwood, and Adams area	Drainage system improvements design	75,000	SW Enterprise Funding
Drainage System Improvement	Van Buren Road drainage system	Install stormwater collection system	250,000	SW Enterprise Funding
Culvert Replacement	Upper Pinnacle Street at Dunvegan Road	Culvert Replacement design	100,000	SW Enterprise Funding

# **Telemedia Enterprise**



# Town of Tewksbury FY2025-FY2029 Capital Improvements Projects/Equipment

Project Name: THMS Production Cart

Department: Telemedia First Year Submission FY25 Priority: #1

**Description of Project:**

In March 2019, we purchased a production cart for use in filming events at TMHS; including Town Meeting, SC Meetings, and graduation. We would like to replace the current cart with a new and improved cart.

**Justification/Benefit:**

The current cart is getting old and has experienced normal wear and tear. It is, however, still functional and would be repurposed and sent to the Center School where demand is not as high.

**Impact if not Completed:**

Lower quality productions and risk of failure due to high usage.

Timeframe: Winter or Spring, 2025

Replacement Frequency: 5-7 years

**Operating Budget Impact:**

Possible customer service or warranty license(s).

**Funding Source:**

Capital Funding Request						
Fiscal Year	2025	2026	2027	2028	2029	Totals
Site Acquisition	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Design/Engineer	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	<b>\$0.00</b>
Construction	\$8,000	\$0.00	\$0.00	\$0.00	\$0.00	\$8,000
Equipment	\$35,000	\$0.00	\$0.00	\$0.00	\$0.00	\$35,000
Contingency	\$5,000	\$0.00	\$0.00	\$0.00	\$0.00	\$5,000
<b>Totals</b>	<b>\$48,000</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$48,000</b>

Basis of Cost Projection: Staff research

Submitted By: Brian Dorrington Date: 11/14/2023