



TOWN OF EASTON
MASSACHUSETTS
Department of Public Works
Water Division

RICHARD TIERNEY
Water Operations Manager

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MEMORANDUM

TO: Connor Read, Town Administrator

FROM: Richard Tierney, Water Operations Manager

DATE: February 24, 2022

SUBJECT: FY2023 Capital Budget Request – Water Division

I am pleased to submit on behalf of the Water Division the Capital Budget Request for fiscal years 2023 through 2027.

Motor Equipment:

The Easton Water Division is requesting \$240,000 in FY2023 to fund the replacement of one (1) vehicle which is at the recommended replacement age.

Summary of Water FY2023 Vehicle Replacements

UNIT	TYPE	ACTION	REPLACEMENT VEHICLE	ESTIMATED COST
122	2012 Freightliner	Replace	2022 Hooklift (35 GVW)	\$240,000
				\$240,000

Annual Water Main Replacement:

The Easton Water Division is requesting \$1,500,000, this is an annual request for the design and construction of water main replacements. The existing water main distribution system is comprised of 170 miles of various sizes of water main which range in diameter from one and a half inches to sixteen inches. Water mains have a useful life expectancy of between 50 and 75 years. The Water Division responds to between fifteen to twenty-five water main breaks per year. These unscheduled events create public safety issues and increase the risks of injuries to our employees. These breaks also escalate our overtime budget, contribute to unaccounted for water loss, disrupts service, and contributes to poor water quality. We plan to update our water main asset management approach assisted from our GIS mapping and future hydraulic modeling.

Bay Road Water Storage Tank Restoration:

The Easton Water Division is requesting \$1,580,000 for the rehabilitation of the 2-million-gallon Bay Road Water Storage Tank that was built in 1959 by Chicago Bridge & Iron. The tank was last cleaned and painted in 2007. This project will upgrade the electrical system, enhance security and safety, and improve water quality with the installation of a

new engineered mixing system. Taking this action now will provide a superior epoxy layered barrier that will protect this asset for the decades ahead.

Security Upgrades & Fiber Optics @ Station 1, 2, 6:

The Easton Water Division is requesting \$80,000 to upgrade the SCADA security and operator interface terminal (OIT) into these facilities. The fiber optic installation and integration will enhance the SCADA security and alarming capabilities as we prepare to add new PFAS carbon treatment filters. These improvements standardize our facilities security, and reduces our monthly support and service.

Hydraulic Model:

The Easton Water Division is requesting \$50,000 to develop a hydraulic model of our water system. This project will help identify future water main improvements, hydraulic concerns, and tools for improved utilization of our wells and treatment facilities. This model will identify future water main replacements, ultimately reducing operational costs and repairs, service outages, and reducing safety concerns to our employees.

Replacement of 2003 Vactron:

The Easton Water Division is requesting \$82,000 to replace our 2003 Vactron, this piece of equipment is used to maintain our distribution systems valve and curb boxes. The Wach's trailer will also increase our abilities to conduct other routine maintenance programs and verify the locating of these assets. Not replacing this piece equipment reduces the effectiveness of our field staff, and requires more time spent in the maintenance of the system.

Wheaton Farm Station 6 & Substation Communication Improvements:

The Easton Water Division is requesting \$92,000 to correct a direct buried communication wire that has been creating re-occurring failures and equipment loss. Running new fiber optic in conduits throughout the wellfield and substation and back to Station 6. The PLC replacements will improve the communication and reliability of this facility. Failure to correct these deficiencies, will increase the chances of future equipment and pump damage.

Cc: David Field, P.E., Director of Public Works
Wendy Nightingale, Town Accountant
Greg Swan, P.E., Assistant Town Engineer
James Conceison, Highway Supervisor
Todd Texeira, Buildings and Grounds Supervisor

**TOWN OF EASTON
CAPITAL PLANNING COMMITTEE
CAPITAL BUDGET REQUEST FORM**

Department	Priority Ranking	Tracking Number (optional)	Brief Description of Item	Initial Fiscal Year of Request	FY 23	FY 24	FY 25	FY 26	FY 27	Total
WATER	1		Motor Equipment	FY2014	\$240,000	\$280,000	\$156,000	\$231,000	\$200,000	\$1,107,000
WATER	2		Water Main Repalcement	FY2022	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$7,500,000
WATER	3		Bay Road Water Storage Tank Restoration	FY2022	\$1,580,000	\$0	\$0	\$0	\$0	\$1,580,000
WATER	4		Security Upgrades and Fiber Installation for Wells	FY2022	\$80,000	\$0	\$0	\$0	\$0	\$80,000
WATER	5		Hydraulic Model	FY2022	\$50,000	\$0	\$0	\$0	\$0	\$50,000
WATER	6		Replace 2003 Vactron	FY2023	\$82,000	\$0	\$0	\$0	\$0	\$82,000
WATER	7		Wellfield 7 Fiber and PLC Upgrades	FY2023	\$92,000	\$0	\$0	\$0	\$0	\$92,000
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					\$3,624,000	\$1,780,000	\$1,656,000	\$1,731,000	\$1,700,000	\$10,491,000