

**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
  
**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	550,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	550,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	<b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/>	<b>level service maintenance</b>	maintains City desired level of service
c. <input type="checkbox"/>	<b>economic development</b>	adds to the City's economic vibrancy
d. <input type="checkbox"/>	<b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- 1)
- 2)
- 3)

(10) **PROJECT OR EQUIPMENT LOCATION:**  
  
(11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**



# CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | OPERATIONS

**OPERATIONS CENTER**  
100 Western Avenue  
Framingham, MA 01702

508-532-6050  
water@framinghamma.gov  
www.framinghamma.gov

## MEMORANDUM

**DATE:** 9/29/2023

**TO:** Robert Lewis  
Director Department of Public Works

**FROM:** Steve Leone  
Director of Water & Wastewater

**RE:** Garvey Rd Water Services Capital Appropriation FY25

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Garvey Road is a neighborhood road that is in extreme need of road re construction which includes pavement, curbing, sidewalk, drainage and lighting repairs. The Wastewater pump station is currently under rehabilitation as well as some minor wastewater piping improvements in advance of the road reconstruction. This work is expected to be completed by the summer of 2024. The water services to the homes are made of black plastic pipe. At the time of installation this was the standard but it is now known to be prone to leaking. In advance of the road reconstruction project the Water Department would like to replace the water services to the property lines "curb stop valve" with type k copper to prevent the chance of a leak in the new roadway. The fire hydrants are from the early 1980's and are over 40 years old. They are in need of replacement and will be replaced under this appropriation. There will also be several line valves installed on the water main to help minimize water service disruption to residents. The water main itself is made of Ductile Iron and is from the early 1980's. It is of sufficient size and is todays standard for material. There is no need to replace it at this time.

## Garvey Road Water Service Replacement Project – FY25 Capital Project Submission



*Garvey Road: 8" DI water main installed 1984-85 with black plastic services.  
Utility work needed before roadway repaving begins.*

### **Why replace black plastic polybutylene (Poly B) water services?**

- ***Poly B water pipe have known high rates of failure – increases as pipe gets older.***
- ***Black plastic water services were made with defective seams and services burst at seams.***
- ***Framingham is replacing failed black plastic water services at a rate higher than iron water services installed in Framingham in the 1950s.***

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(1) **PROJECT NAME:**   
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(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
  
**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	700,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	700,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	<b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/>	<b>level service maintenance</b>	maintains City desired level of service
c. <input type="checkbox"/>	<b>economic development</b>	adds to the City's economic vibrancy
d. <input type="checkbox"/>	<b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

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- 2)
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(10) **PROJECT OR EQUIPMENT LOCATION:**  
  
(11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**



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## MEMORANDUM

**DATE:** 9/29/2023

**TO:** Robert Lewis  
Director Department of Public Works

**FROM:** Steve Leone  
Director of Water & Wastewater

**RE:** **Saxonville Intersection Water Mains Project**

---

The Saxonville Intersection is scheduled to be under construction within the next several years. The water main was replaced a decade ago on Central St, and Concord St beyond the limits of the intersection construction. The limits also extend up Elm St several hundred feet. The water main was not replaced at that time on Elm St. It is in the best interest of the City to replace the water main on Elm St from the Saxonville intersection to Chestnut St. This will remove an old 10" cast iron pipe from 1920 and replace it with 12" Ductile Iron. Not only is 10" an odd size to stock parts for repairs this will minimize the need to have to excavate within the limits of the new intersection for any repairs. Any water services within this section of road will be replaced to the "curb stop valve" as well as all other appurtenances. Due to the logistics of installing water main and bypass piping, as well as the water main on Chestnut St. being undersized 6" pipe from 1907, it makes sense to replace that water main, services, and appurtenances at the same time on Chestnut St. There is also an appropriation request to replace the water mains on Elm St from Chestnut St to Pinewood St as well as replacing the Elm St water pumping station. The work of this appropriation will eliminate the need of excavating in the new intersection during the construction of the Elm St water mains in the future. The appropriation amount of \$700,000 will cover the cost of the installation and materials for the water main replacement as well as the associated services, valves, and hydrants.

## Saxonville Water Main Project – FY25 Capital Project Submission

### **Why the Saxonville Intersection Area water mains?**

- *Provides necessary utility improvements in advance of the Saxonville Intersection Improvements.*
- *Improves reliability and reduces risks of water main breaks.*
- *Increases water main capacity.*
- *Eliminates aged unlined cast iron water mains.*

*Chestnut Street --  
Replace 250 feet of 6" diameter cast iron main (1907) with new 8" ductile iron main*



*Elm Street --  
Replace 250 feet of 10" diameter cast iron main (1920) with new 12" ductile iron main*

**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
  
**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	2,610,000	2,132,000	2,132,000			
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	<b>2,610,000</b>	<b>2,132,000</b>	<b>2,132,000</b>	<b>-</b>	<b>-</b>	<b>-</b>

(5) **PRIORITY:**

a. <input type="checkbox"/>	<b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/>	<b>level service maintenance</b>	maintains City desired level of service
c. <input type="checkbox"/>	<b>economic development</b>	adds to the City's economic vibrancy
d. <input type="checkbox"/>	<b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- 1)
- 2)
- 3)

(10) **PROJECT OR EQUIPMENT LOCATION:**   
(11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**



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## MEMORANDUM

**DATE:** 10/12/2023

**TO:** Stephen Leone  
Director of Water & Sewer

**FROM:** Alex MacKenzie  
Assistant Director of Water & Sewer

**RE: Cost Estimate for FY2025  
Water Meter Collection System Endpoint Replacement Plan**

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As part of our program to enhance the City's Water & Sewer Billing, our aim is to improve the reliability and dependability of the City's data collection system. As you are aware, approximately over 80% of the meter transceiver units (MXUs) in the current radio-based data collection system are within three years of end of life. As end-of-life approaches, these MXUs begin to fail and become increasingly unreliable. When these units fail to transmit data from water meters to the data collection system, customer water usage information is not received by the Water & Sewer Billing office. In FY2025 it is our goal to initiate the first year of our three-year replacement plan to eliminate aged and unresponsive MXUs from our system, and transition to a new more robust, reliable, adaptable, and customer-friendly system.

The Water & Wastewater Division has committed to transitioning our data collection system from a 100% radio-based system to a hybrid radio and cellular-based system. This decision was made largely as a response to the lack of available equipment for the foreseeable future to replace the City's existing end-of life equipment. As a fully radio-based system, the current collection system also has limitations that the new system will not have, and the equipment cost per unit to replace the end-of-life units would have been greater.

The collection system conversion has required the Division to invest in the installation of new radio collectors located at carefully mapped locations within the City. This initiative began in FY2023 and is anticipated to be complete by FY2024. For those areas where communication with a radio collector was previously not reliable or not possible, we will now have the opportunity to utilize cellular-based data transmitters to capture those data. The new system will also support drive-by data collection if there is a failure to receive data by radio or cellular, which is a feature the City's current system does not have.

An FY2025 appropriation for the *Water Meter Collection System Endpoint Replacement Plan* will provide the funds necessary to procure the equipment needed to perform approximately one-third of the unit conversions to the new collection system. Our objective first and foremost will be to eliminate units that are not providing reliable water usage data to Water & Sewer Billing office – which in turn will reduce the number of customer

accounts requiring Division personnel to access properties to manually read usage data and/or requiring estimated usage invoices to be generated. The following describes the funding required over the next three fiscal years to complete the collection system conversion.

**Water Meter Collection System  
Endpoint Replacement Plan**

Description	FY2025	FY2026	FY2027
<i>Meter Endpoints</i>	\$1,110,240	\$1,102,530	1,102,530
<i>2 to 3-wire conversion plates</i>	\$463,302	\$0	\$0
<i>Installation</i>	\$1,036,800	\$1,029,600	\$1,029,600
<i>Total Estimated Cost</i>	\$2,610,342	\$2,132,130	\$2,132,130
<b>FY2025 WATER METER REPLACEMENT REQUEST</b>			<b>\$2,650,000</b>

We are requesting funding in the sum of **\$2,650,000 in FY2025 for the Water Meter - Collection System Endpoint Replacement Plan**. The anticipated costs for the FY2025 through FY2027 capital requests are based on FY2024 federal contract pricing plus projected adjustments for contract adjustments over the subsequent years. Contingency of approximately 20 percent has also been added to the unit costs to cover the price of ancillary parts required for installation and any additional fees associated with installation. The *Water Meter Collection System Endpoint Replacement Plan* is a critical project with financial implications for the Water & Wastewater Division that cannot be resolved without funding to perform the work described.

Water Meter Collection System Endpoint Replacement Plan – FY2025 Capital Proposal



*Aged water meter and transceiver unit (MXU)*



*Inaccessible meter & MXU in need of replacement and relocation*



← Existing end-of-life endpoint removed from collection system



→ New hybrid system: radio and cellular endpoints + conversion plate

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DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
 The 5.4 million gallons per day capacity Elm Street Water Pump Station is vital to the operation of Framingham's water system. This project will design the replacement pump station and investigate and design improved water transmission mains, potentially consolidating two mains into one. The station draws water from the MWRA's Hultman Aqueduct and MetroWest Tunnel and, with the Pleasant Street and Edgell Road Pump Stations, pumps water to all but the highest elevation areas of the City's water system. The three stations are all essential pumping facilities to provide maintain supply, pressure, and water quality. The Elm Street Water Pump Station now no longer can do its part in terms of redundancy and maintaining base operations for the system. It has not been upgraded for decades and is in desperate need of replacement. Equipment and electrical systems are outdated, far from being reliable, and pose safety risks for those who have to operate and maintain systems. The controls, including the electrical system and motor control center (MCC), were installed in the 1960s. The existing backup engine-driven pump no longer functions and the existing MCC now no longer meets electrical codes and presents substantial safety hazards to City personnel. Replacement parts are no longer available, making maintenance challenging. Although one of the electrically-driven pumps was replaced in the 1990s, the other is original and in need of replacement. One of the operating pumps can no longer be connected to the MCC without compromising service to the entire station and now only operates using a standby generator, which requires full-time staffing during operation for monitoring. The heating and ventilation system for the building is old and also in need of upgrade.  
**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design	575,000					
d. Construction			5,000,000			
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	<b>575,000</b>	<b>-</b>	<b>5,000,000</b>	<b>-</b>	<b>-</b>	<b>-</b>

(5) **PRIORITY:**

a. <input checked="" type="checkbox"/> <b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/> <b>level service maintenance</b>	maintains City desired level of service
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(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- 
- 
- 

(10) **PROJECT OR EQUIPMENT LOCATION:**

(11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

<b>(8) PROJECT LEAD NAME &amp; CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)</b> Robert A. Lewis
<b>(9) FINANCE DEPARTMENT NOTES:</b> 



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### MEMORANDUM

**DATE:** 10/16/2023

**TO:** Stephen Leone  
Director of Water & Sewer

**FROM:** Stephanie Tarves  
Senior Water & Wastewater Engineer

**RE: Elm Street Water Pump Station and Water Mains Improvement Project**

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The Elm Street Water Pump Station is one of the City's four water supply pump stations that draw water from the MWRA's water supply through the Hultman Aqueduct and the MetroWest Tunnel. The three of these pump stations the Pleasant Street, Edgell Road and Elm Street Pump Stations maintain supply, pressure and water quality to the vast majority of the City, to all but the highest elevations in the City's water system. The Elm Street Water Pump Station is located in Saxonville, and is the City's northern- and eastern-most water supply source. Originally constructed in 1962 and rated for 5.4 MGD, the Elm Street Station pumps drinking water through a 20-inch cast iron transmission main installed in 1964 to the City's Indian Head Water Tanks. The Elm Street Water Pump Station has been maintained through upgrades for decades, but in recent years experienced a number of electrical and mechanical failures where temporary stop-gap measures have been implemented to keep the station online. Due to the age and condition of the station, the Elm Street Water Pump Station is at risk of further failures and requires replacement. This appropriation would provide funding for engineering services to study, design, permit, and prepare bid-ready documents for the Elm Street Pump Station and Water Mains Improvement Project.

#### **Elm Street Water Pump Station**

In its current condition, the Elm Street Water Pump Station does not reliably provide the redundancy needed by the City for its public water supply needs. The station cannot operate normally at its design capacity and no longer has functioning auxiliary backup pumping due to multiple electrical and mechanical failures. Equipment and electrical systems are outdated, far from being reliable, and pose safety risks for those who have to operate and maintain systems. Although one of the electrically-driven pumps was replaced in the 1990s, the other is original to the station and in need of replacement. The heating and ventilation system for the building is old and also in need of upgrade. The SCADA equipment – although the most recently upgraded equipment at the station – is reaching end-of-life, and also requires upgrade. The most compelling needs at the station are mechanical and



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electrical improvements because of the deficiencies resulting from failures of those systems. The following describes the major problems present at the station.

The Elm Street Water Pump Station's electrical system and the motor control center (MCC) were installed in the 1960s and no longer meet electrical code. The condition of the MCC presents a substantial safety hazard as noted in the 2021 Technical Memorandum *Elm Street Water Pumping Station – Electrical System Evaluation* prepared for the Division by electrical consultant, Woodard and Curran. The technical memorandum summarizes electrical deficits, and provides recommended improvements. Based on the electrical assessment provided in the memo, Standard Operating Procedures (SOPs) for the City's water operators have been modified such that no operators are to be present in the building while when the existing 50 hp pump – powered utility power – is operating. The risk of a hazardous electrical failure that may cause injury is too great.

Since the 2021 technical memo, the station's 100 hp pump suffered a motor failure. The 100 hp motor was repaired but could not be reconnected to the station's MCC without risk of compromising electrical service to the entire station. Reconfiguration of the electrical supply to the 100 hp pump was performed such that it now only operates by standby generator power and is not connected to the station's utility power. Operating the 100 hp pump in this manner requires full-time attendance for monitoring and operating whenever the pump is utilized, so currently the 100 hp pump is only exercised and is available in the event of an emergency. This temporary stop-gap measure is not a permanent fix and presents a significant limitation to the pumping capacity of the station. The 100 hp pump cannot be operated in regular rotation with the City's other system pumps, and cannot be operated remotely through the City's SCADA system, effectively reducing pumping capacity of the station and removing that capacity from the system.

The auxiliary natural gas engine-driven pump at the Elm Street Water Pump Station, commonly provided in these style stations of this era for emergency backup during periods of power outages, has experienced mechanical failure. Efforts have been made to maintain the engine-driven pump and issues have been troubleshooted. Lack of available replacement parts due to the age of the motor have hindered repairs to bring the engine back into service, so these repairs have not been completed. The engine-driven pump requires major investment to bring the pump back into service, which likely would include complete engine replacement.

The Elm Street Water Pump Station cannot operate in concert with the Edgell Road, Pleasant Street Water Pump Stations as it was designed to do, and the Edgell Road and Pleasant Street Water Pump Stations bare the load to compensate for reduced capacity at the Elm Street Station by producing more volume each day, which translates into more wear and tear at the other stations; in the long term reducing the life of the other stations. By providing funds to replace the Elm Street Water Pump Station reduced compensation load on the Edgell Road and Pleasant Street Water Pump Stations



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would result and reliance on the Elm Street Water Pump Station may be increased as a redundant source to the Edgell Road and Pleasant Street sources.

### **Elm Street Water Mains**

The Elm Street water mains include a 20-inch cast iron transmission main associated with the Elm Street Water Pump Station that was installed in 1964, as well as two domestic water mains that provide drinking water to customers. The domestic water mains are both are cast iron, one an 8-inch main installed in 1940 and the other a 6-inch main installed in 1920, which appear to be redundant. The goal of the water main replacement work would be to investigate and propose a design to consolidate the two domestic water mains and replace the transmission main from the Elm Street Water Pump Station to the Saxonville intersection. The limit of this project would be from Chestnut Street (contingent upon funding of the Saxonville Intersection Water Mains Project) to Pinewood Drive, and will additionally include a section of 6-inch cast iron water main from 1909 located on an easement between Elm Street and Edwards Street and a 16-inch water main from the Elm Street Water Pump Station to Pinewood Drive.

The Elm Street water mains included in this project are all aged infrastructure – some of which are over 100 years old and undersized. There have been multiple breaks of the domestic water mains in recent years, and the location of mains, connections between mains, and age of the associated valves have made for difficult isolation of the mains during emergencies. Elimination of cast iron water mains also contributes to improved water quality in the water system. Elimination of undersized mains improves pressure to customers and increased available fire flow available to hydrants. These improvements are proposed in coordination with the Saxonville Intersection Improvements Project to address the utilities in the Saxonville neighborhood in conjunction with the planned roadway improvements.

### **Proposed Elm Street Water Pump Station and Water Mains Improvement Project**

The proposed Elm Street Water Pump Station and Water Mains Improvement Project will provide necessary capital investment into the City's drinking water pumping infrastructure and distribution system. Replacement of the Elm Street Water Pump Station will provide tremendous improvement to the City's water system by resolving a serious continuously deteriorating conditions and allow for better operation and management of the water system. The work will include investigation of the existing pump station structure, utility service, equipment, and overall facility to provide recommendations for replacement of the station such that it will serve the drinking water needs of the City into the future.

The proposed water main improvements in conjunction with the Saxonville Intersection Water Mains Project is expected to connect new ductile iron domestic water main to existing 12-inch ductile iron main installed in 2008 at the intersection of Concord and Central Streets. The new ductile iron main



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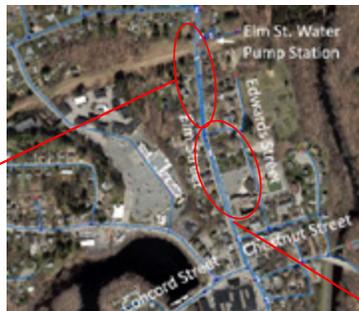
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will extend north up Elm Street to Pinewood Drive to eliminate the 6-inch and 8-inch redundant water mains. Replacement of the 6-inch 1909 cast iron water main through the easement from Elm Street to Edwards Road will eliminate an undersized main and result in improved water quality and fire flow in the Edwards Road neighborhood. Additional work will be performed to investigate and provide a design for replacement of the 20-inch cast iron 1964 transmission main that connects the Elm Street Water Pump Station to the Indian Head Tanks, to provide improved reliability of the Elm Street Water Pump Station supply source. Investigation and recommendations will be provided for replacement of the 16-inch 1964 cast iron main that feeds Pinewood Drive from the Elm Street station.

Work of this project will include engineering services to investigate the existing infrastructure and provide recommendations for improvements, engineering design, construction cost estimation, permitting, and all associated work required for the delivery of bid-ready contract documents. The estimated cost for design services for the **Elm Street Water Pump Station and Water Mains Improvement Project** is **\$575,000** proposed for appropriation in the **FY2025** Capital Improvement Project Submission.

## Elm Street Water Pump Station and Mains Project – FY25 Capital Project Submission

*Elm Street Water Mains (north)*



*Elm Street Water Pump Station locus map*

*The water mains associated with the Elm Street Water Pump Station transport water from the MWRA's Hultman Aqueduct and MetroWest Tunnel through the City's distribution system to the Indian Head Water Storage Tanks.*

*Elm Street Water Mains (south)*



**Upgrading the Elm Street Water Pump Station and Water Mains is critical to maintaining a continuous reliable supply of water to the City.**

*Replacement of the outdated water pump station and water mains will improve reliability, address safety issues, and consolidate infrastructure to enhance DPW's ability to consistently deliver high quality water to the City.*

## Elm Street Water Pump Station and Mains Project – FY25 Capital Project Submission

Existing 100 hp electrically-driven pump must be run off generator power; cannot run on station's power – Unsafe to repair.



Diesel-driven pump no longer functions – Station has no backup pump.



### **Why replace the Elm Street Water Pump Station?**

- **A catastrophic failure at this station is imminent if no action is taken.**
- **Existing station is not up to current standards – will improve operation and safety.**
- **Upgrades will improve reliability of the City's water supply.**
- **The building and associated utilities require upgrades to extend the life of the structure.**

← Old, hazardous wiring does not meet electrical code – hazardous to maintain.

Crumbling door frame and delamination of building structure.





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## TECHNICAL MEMORANDUM

TO: Stefanie Tarves, PE, Senior Water and Wastewater Engineer, City of Framingham, MA  
CC: Michael Dunham, Electrician, City of Framingham, MA  
PREPARED BY: David Brown, Electrical Engineer, Woodard & Curran  
REVIEWED BY: George Weber, PE, Technical Manager, Woodard & Curran  
DATE: June 8, 2021  
RE: Elm Street Water Pumping Station – Electrical System Evaluation

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### Introduction:

On May 14<sup>th</sup>, Woodard and Curran (W&C) evaluated the electrical power distribution system at the Elm Street water pumping station at the request of the City of Framingham. W&C walked the site with the Framingham team to discuss site conditions and pump station operations.

On June 2<sup>nd</sup>, W&C performed a second site investigation with the Framingham team and Eversource utility representatives. Eversource evaluated the existing utility condition and discussed options for updating the service with the team.

W&C observed the following regarding this pump station.

### Existing Conditions:

- A 480V three-phase service feeds the building overhead from a pole-mounted transformer on the property.
- The existing Motor Control Center (MCC) is antiquated, reaching its end of life, and replacement parts are not available for servicing.
  - o The MCC contains motor starters for starting two pumps, and a low voltage transformer that feeds two 120/240-volt main lug only lighting panelboards.
- Two suction lift electric pumps (50 HP and 100 HP) appear to be in good condition, but detailed evaluation of the pumps were not in the scope of this task.
- W&C could not determine the condition of the conduit and wiring infrastructure as all wiring and conduit was either concealed or buried.

### Recommendations:

From the information gathered, W&C recommends the following changes for the Elm Street Pump station:

- A new 3-phase 480V grounded service and new pole-mounted transformer.
- Replacement of existing MCC with a new 400 ampere main distribution panel, low voltage transformer, 120/240-volt panelboard for lighting and general use, variable frequency drives (VFDs) for motor operation, VFD control conductors, conduits, and power conductors.
- New interior and exterior LED building lighting.

**Opinion of Probable Cost:**

W&C assessed the pump station and has determined a probable cost for design, construction administration, and construction. The cost listed below in Table 1 does not include any costs that may be charged by Eversource Utility. A more precise project estimate can be prepared by soliciting quotes from electrical contractors and refining the design and construction admin costs.

**Table 1: Probable Construction Cost Estimate**

<b>Description:</b>	<b>Construction Cost:</b>
Underground Construction:	\$33,231
Service Grounding:	\$26,165
Power Conduit and Conductors:	\$28,165
Pump Station Interior Control Conduit and Conductors:	\$11,151
Electrical Equipment:	\$85,280
<b>Total Cost</b>	<b>\$183,992</b>

**Table 2: Probable Detail Design and Construction Administration Cost Estimate**

<b>Description:</b>	<b>Design Cost:</b>
Detail Design:	\$16,423
Construction Administration:	\$8,196
<b>Total Design and Construction administration Cost:</b>	<b>\$24,619</b>



**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

<p>(2) <b>PROJECT DESCRIPTION AND JUSTIFICATION:</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>Sections of watermain on Walnut Street, Warren road and Burdette Ave are undersized and/or over 100 years old and past their useful life. This capital request is to fund the design for the replacement of these watermains with the construction intended to be contemporaneous with sewer construction for which the design has been previously authorized. This request will also fund the assessment of watermain in nearby roads such as Prindiville Ave.</p> </div> <p><b>PROJECT ADDITIONS/CHANGES JUSTIFICATION:</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>Cost estimate updated. Added placeholder for construction in FY27.</p> </div>	<p>(3) <b>PURPOSE OF PROJECT:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td align="center"><input checked="" type="checkbox"/></td><td>Replace existing infrastructure</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>Replace existing capital asset</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>Replace existing vehicle</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>Replace equipment</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>New infrastructure</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>New capital asset</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>New vehicle</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>New equipment</td></tr> <tr><td align="center"><input type="checkbox"/></td><td>Strategic/Comprehensive/Master plan</td></tr> </table>	<input checked="" type="checkbox"/>	Replace existing infrastructure	<input type="checkbox"/>	Replace existing capital asset	<input type="checkbox"/>	Replace existing vehicle	<input type="checkbox"/>	Replace equipment	<input type="checkbox"/>	New infrastructure	<input type="checkbox"/>	New capital asset	<input type="checkbox"/>	New vehicle	<input type="checkbox"/>	New equipment	<input type="checkbox"/>	Strategic/Comprehensive/Master plan
<input checked="" type="checkbox"/>	Replace existing infrastructure																		
<input type="checkbox"/>	Replace existing capital asset																		
<input type="checkbox"/>	Replace existing vehicle																		
<input type="checkbox"/>	Replace equipment																		
<input type="checkbox"/>	New infrastructure																		
<input type="checkbox"/>	New capital asset																		
<input type="checkbox"/>	New vehicle																		
<input type="checkbox"/>	New equipment																		
<input type="checkbox"/>	Strategic/Comprehensive/Master plan																		

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design	355,000					
d. Construction			4,000,000			
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	355,000	-	4,000,000	-	-	-

(5) **PRIORITY:**

a.	<input type="checkbox"/> <b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b.	<input checked="" type="checkbox"/> <b>level service maintenance</b>	maintains City desired level of service
c.	<input type="checkbox"/> <b>economic development</b>	adds to the City's economic vibrancy
d.	<input type="checkbox"/> <b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

<p>(7) <b>PROPOSED FUNDING SOURCE(S):</b></p> <ol style="list-style-type: none"> <li>1) <input type="text" value="Bond"/></li> <li>2) <input type="text"/></li> <li>3) <input type="text"/></li> </ol>	<p>(10) <b>PROJECT OR EQUIPMENT LOCATION:</b> <input type="text" value="See description"/></p> <p>(11) <b>ASSET TYPE:</b> <input type="text" value="Building"/></p>
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(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

(9) **FINANCE DEPARTMENT NOTES:**



## CITY OF FRAMINGHAM

DEPARTMENT OF PUBLIC WORKS | OPERATIONS

OPERATIONS CENTER  
100 Western Avenue  
Framingham, MA 01702

508-532-6060  
wastewater@framinghamma.gov  
www.framinghamma.gov

### MEMORANDUM

**DATE:** 10/18/2023

**TO:** William Sedewitz, PE  
Chief Engineer

**FROM:** Eric Johnson, PE  
City Engineer

**RE:** **Walnut St, Warren Rd, Burdette Ave Water Main Improvements - Design**

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Sections of watermain on Walnut Street, Warren Road and Burdette Avenue are undersized and/or over 100 years old and past their useful life. This capital request is to fund the design for the replacement of these watermains with the construction intended to be contemporaneous with sewer construction for which the design has been previously authorized. This request will also fund the assessment of watermains in nearby roads such as Prindiville Avenue. In addition, this project will include the replacement of all water services with new copper pipe. The existing water services are HDPE plastic manufactured such that they have a limited lifespan.

Funding for the Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project is requested along with prior funding for the design of the Walnut Street Sewer Force Main and Walnut Street Neighborhood Flood Mitigation Projects, so that necessary work on utilities in the Walnut Street area may be completed in succession, minimizing the duration of construction activities in the Walnut Street neighborhood.

Attached to this memo is a cost summary by Hazen and Sawyer to complete this work in conjunction with the co-located sewer work previously authorized. This work is estimated at \$355,000.

Walnut St., Warren Rd. & Burdette Ave. Water Main Improvement Project – FY25 Capital Project Submission



*Burdette Ave: Low-flow 6" CI water main installed 1912*



*Warren Rd: 8" CI water main installed 1910 and 8" DI water main with black plastic water services*

**Why eliminate low-flow water mains?**

- *To provide sufficient fire protection to residents.*
- *To improve drinking water pressure to customers.*
- *To improve water quality removing unlined CI mains.*

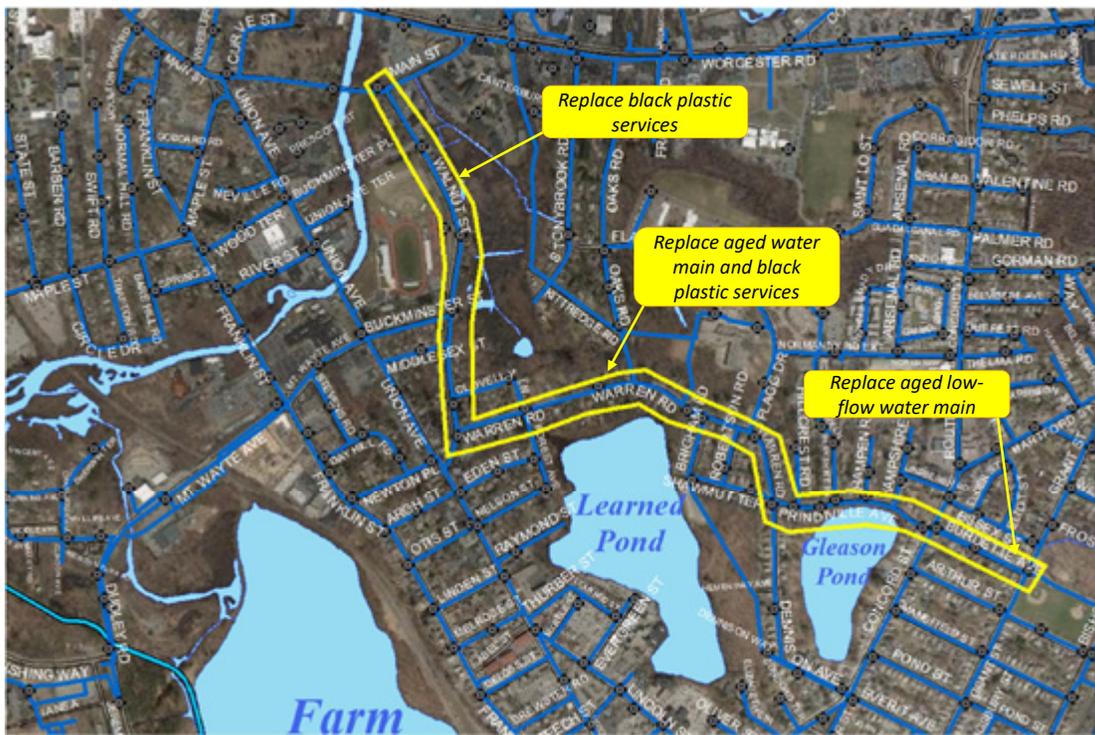


*Walnut St: 8" DI water main with black plastic services*

**Why replace black plastic polybutylene (Poly B) water services?**

- *Poly B water pipe have known high rates of failure – increases as pipe gets older.*
- *Black plastic water services were made with defective seams and services burst at seams.*
- *Framingham is replacing failed black plastic water services at a rate higher than iron water services installed in Framingham in the 1950s.*

Walnut St., Warren Rd. & Burdette Ave. Water Main Improvement Project – FY25 Capital Project Submission



Walnut Street, Warren Road & Burdette Avenue: Water Main Improvement Project Route.  
Work concurrent with sewer force main replacement along the same route.

October 18, 2023

Mr. William R. Sedewitz, P.E.  
Chief Engineer  
110 Western Avenue  
Framingham, MA 01702

**RE: Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project  
Funding Request for Design Services**

Dear Mr. Sedewitz:

As requested, Hazen and Sawyer (Hazen) is pleased to provide this letter regarding the estimated funding for design services for the Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project.

**Background**

The Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project is intended to replace aging, low-flow water mains and upgrade outdated water service connections that are prone to failure on the aforementioned streets. The project includes abandonment of the 6-inch cast iron water main on Burdette Avenue (installed in 1912) and reconnection of water services to the existing 12-inch main on Burdette Avenue, replacement of the Warren Road 8-inch cast iron (installed in 1910) from approximately Oaks Road to Prindiville Avenue, and replacement of all service connections within the project limits. The services connected to these mains are polybutylene (black plastic) and have high rates of failure as the pipe ages due to the fused seams method of construction. The project will also include relocation of various sections of water mains on these streets that may conflict with the concurrent sanitary sewer improvements or other utility upgrades (i.e., geothermal project). This project will improve water pressure and volume for residents, provide sufficient fire protection, and mitigate the frequency of DPW emergency responses due to service line failures. The project scope will include temporary water main bypasses to facilitate construction, replacement of water mains, valves, and hydrants, and replacement of all water services with new copper service connections from the water main to the resident's curb stop. Funding for the Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project is requested along with prior funding for the design of the Walnut Street Sewer Force Main and Walnut Street Neighborhood Flood Mitigation Projects, so that necessary work on utilities in the Walnut Street area may be completed in succession, minimizing the duration of construction activities in the Walnut Street neighborhood.



Hazen and Sawyer  
50 Milk Street, Suite 500  
Boston, MA 02110 • 617.574.4747

**Estimated Fee**

Based on projects we have designed with a similar scope of work, we recommend an appropriation of \$355,000 for Walnut Street, Warren Road, and Burdette Avenue Water Main Improvement Project. Please feel free to contact me at (508) 907-5056 or [jbarsanti@hazenandsawyer.com](mailto:jbarsanti@hazenandsawyer.com) with any questions or if you require additional information.

Sincerely,

James Barsanti, P.E.  
Senior Associate

**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**

The project is for replacement and upgrading of approximately 2,750 feet of old 6-inch diameter cast iron water main infrastructure on Worcester Road (Route 9) Westbound between Concord Street and Caldor Road. Replacement includes new domestic and fire service connections to all businesses within the project area. This infrastructure is in poor condition and is between 50 and 120 years old, exceeding its service life and highly likely to fail due to the outdated material (cast iron). Even though some of the pipe was installed as recently as 1968, cast iron pipe produced in the 1950s and 1960s has been a major source of main breaks not only in Framingham but in utilities throughout the US. This water infrastructure serves major portions of Framingham's retail businesses, where emergency repairs and traffic disruption would be significantly expensive because of its location within state road limits. This project will improve water infrastructure in the area by increasing capacity for future demands, enhancing reliability of the system, improving fire flows and water quality, and reducing maintenance costs. This project is also an opportunity to address water and sewer needs together as part of a single construction package, resulting in reduced impacts to the businesses in the area and those who travel on this busy roadway.

**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

Cost estimate updated. Note that this project needs to coincide with Worcester Rd Sewers Phase II

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	5,240,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	5,240,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/> <b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/> <b>level service maintenance</b>	maintains City desired level of service
c. <input checked="" type="checkbox"/> <b>economic development</b>	adds to the City's economic vibrancy
d. <input checked="" type="checkbox"/> <b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

<p><b>(7) PROPOSED FUNDING SOURCE(S):</b></p> <p>1) <b>Bond</b></p> <p>2)</p> <p>3)</p>	<p><b>(10) PROJECT OR EQUIPMENT LOCATION:</b></p> <p><b>Worcester Road between Concord Street and Caldor Road</b></p> <p><b>(11) ASSET TYPE:</b></p> <p><b>Building</b></p>
<p><b>(7a) POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)</b></p>	
<p><b>(8) PROJECT LEAD NAME &amp; CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)</b></p> <p>Robert A. Lewis</p>	
<p><b>(9) FINANCE DEPARTMENT NOTES:</b></p>	



October 3, 2023

Mr. Robert H. Sheldon, PE  
Director, Capital Projects  
Department of Public Works  
Capital Improvement Program  
110 Western Avenue  
Framingham, MA 01702

**RE: Framingham: Capital Project Planning  
Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
Updated Cost Estimate**

Dear Robert:

As requested Environmental Partners Group, LLC (Environmental Partners) has updated the cost estimate for this project. The detailed cost estimate is attached, and assumes construction in 2024.

Please feel free to contact me if you have any questions or would like to discuss this project further.

Very Truly Yours,

**Environmental Partners Group, LLC**

A handwritten signature in blue ink that reads "Ryan Allgrove".

Ryan J. Allgrove, P.E.  
Principal  
P: (617) 657-0281  
E: [rja@envpartners.com](mailto:rja@envpartners.com)

Attached: Updated Cost Estimate

[envpartners.com](http://envpartners.com)

Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
City of Framingham, MA  
254-1904  
100% Design Opinion of Probable Construction Cost - Water and Sewer  
Construction Midpoint - December 2024

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$353,310.25	\$353,310.25
2	Preconstruction Video and Photographs	LS	1	\$36,000.00	\$36,000.00
<b>3</b>	<b>WATER MAINS</b>				
3a	12-Inch DI Water Main	LF	15	\$425.00	\$6,375.00
3b	8-inch DI Water Main	LF	2630	\$380.00	\$999,400.00
3c	6-Inch DI Water Main	LF	100	\$365.00	\$36,500.00
<b>4</b>	<b>GATE VALVES AND BOXES</b>				
4a	8-inch Gate Valves and Boxes	EA	19	\$3,600.00	\$68,400.00
4b	6-inch Gate Valves and Boxes	EA	6	\$2,100.00	\$12,600.00
5	Hydrant Assemblies	EA	5	\$15,000.00	\$75,000.00
<b>6</b>	<b>WATER SERVICE TAPS AND CURB BOXES</b>				
6a	1-inch Water Service Taps and Curb Boxes	EA	4	\$1,400.00	\$5,600.00
6b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,900.00	\$3,800.00
6c	2-Inch Water Service Taps and Curb Boxes	EA	4	\$1,950.00	\$7,800.00
<b>7</b>	<b>WATER SERVICES</b>				
7a	1-inch Water Services	LF	75	\$155.00	\$11,625.00
7b	1.5-Inch Water Services	LF	40	\$170.00	\$6,800.00
7c	2-Inch Water Services	LF	75	\$180.00	\$13,500.00
<b>8</b>	<b>FIRE SERVICES</b>				
8a	4-Inch Fire Service Connection	LF	25	\$280.00	\$7,000.00
8b	6-Inch Fire Service Connection	LF	65	\$195.00	\$12,675.00
8c	8-Inch Fire Service Connection	LF	20	\$335.00	\$6,700.00
<b>9</b>	<b>TEMPORARY BYPASS SYSTEMS</b>				
9a	6-Inch Temporary Bypass Piping	LF	1220	\$180.00	\$219,600.00
9b	8-Inch Temporary Bypass Piping	LF	2340	\$190.00	\$444,600.00
10	Additional Fittings	LB	1500	\$6.00	\$9,000.00
<b>11</b>	<b>GRAVITY SEWERS</b>				
11a	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	1070	\$520.00	\$556,400.00
11b	8-Inch SDR 21 PVC Gravity Sewer Pipe	LF	195	\$530.00	\$103,350.00
11c	10-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	185	\$350.00	\$64,750.00
11d	8-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	140	\$340.00	\$47,600.00
<b>12</b>	<b>SEWER SERVICE CONNECTIONS</b>				
12a	8-inch PVC Gravity Sewer Service	LF	30	\$700.00	\$21,000.00
12b	6-Inch PVC Gravity Sewer Service (Westbound Side)	LF	205	\$680.00	\$139,400.00
12c	6-Inch Epoxy Lined DI Sewer Service (Westbound Side)	LF	65	\$680.00	\$44,200.00
<b>13</b>	<b>SEWER MANHOLES</b>				
13a	4-foot Diameter Sewer Manhole	VF	50	\$1,200.00	\$60,000.00
13b	5-foot Diameter Sewer Manhole	VF	24	\$1,400.00	\$33,600.00
13c	Sewer Manhole Frame and Cover	EA	9	\$1,100.00	\$9,900.00
13d	Rebuild Existing Sewer Manhole Invert	EA	1	\$2,500.00	\$2,500.00
13e	Remove and Dispose of Existing Sewer Manhole	EA	1	\$675.00	\$675.00
13f	Epoxy Line Sewer Manhole	VF	10	\$700.00	\$7,000.00
13g	Cement Line Existing Sewer Manhole	VF	5	\$350.00	\$1,750.00
<b>14</b>	<b>STORMWATER</b>				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	2000	\$12.00	\$24,000.00
<b>15</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
15a	AC Pipe Removal and Disposal	LF	20	\$70.00	\$1,400.00
15b	Management and Disposal of Crushed AC Pipe and AC Impacted soils	CY	100	\$270.00	\$27,000.00
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	1	\$145,000.00	\$145,000.00
15d	Soil Management Plans	LS	1	\$145,000.00	\$145,000.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	4000	\$80.00	\$320,000.00
15f	Removal and Disposal of Impacted Materials	TON	1500	\$100.00	\$150,000.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	500	\$160.00	\$80,000.00
15h	Removal and Disposal of Lined Landfill Materials	TON	500	\$265.00	\$132,500.00
15i	Treatment of Contaminated Groundwater	ALLOW	1	\$60,000.00	\$60,000.00
<b>16</b>	<b>REMOVAL/ABANDONMENT OF UTILITIES</b>				
16a	Abandon Existing Sewer/Water Main with LDCC	CY	10	\$3,500.00	\$35,000.00
16b	Abandon Existing Structure in Place with CDF	CY	150	\$140.00	\$21,000.00
16c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	15	\$2,350.00	\$35,250.00
16d	Cut, Cap, Abandon Sewer Lateral in Place	EA	26	\$1,200.00	\$31,200.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
City of Framingham, MA  
254-1904  
100% Design Opinion of Probable Construction Cost - Water and Sewer  
Construction Midpoint - December 2024

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount	
<b>17</b>	<b>EARTH EXCAVATION</b>					
17a	Exploratory Excavation	CY	265	\$40.00	\$10,600.00	
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	500	\$9.50	\$4,750.00	
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	330	\$380.00	\$125,400.00	
17d	Rock Excavation	CY	250	\$80.00	\$20,000.00	
<b>18</b>	<b>ADDITIONAL MATERIALS</b>					
18a	Select Fill	CY	800	\$9.00	\$7,200.00	
18b	Special Borrow M1.02.0	CY	5000	\$12.00	\$60,000.00	
18c	1500 PSI Concrete	CY	200	\$35.00	\$7,000.00	
<b>19</b>	<b>PAVEMENT</b>					
19a	4-Inch Temporary Trench Pavement	SY	2800	\$68.00	\$190,400.00	
19b	12-Inch Intermediate Trench Pavement	SY	5000	\$135.00	\$675,000.00	
19c	2-Inch Milling	SY	7250	\$10.00	\$72,500.00	
19d	2-Inch Overlay	SY	7250	\$27.50	\$199,375.00	
<b>20</b>	<b>RESTORATION</b>					
20a	Bituminous Concrete Sidewalk	SY	135	\$18.00	\$2,430.00	
20b	Portland Cement Concrete Sidewalk	SY	235	\$75.00	\$17,625.00	
20c	Guard Rail	LF	325	\$235.00	\$76,375.00	
20d	Miscellaneous Bituminous Concrete	TONS	500	\$70.00	\$35,000.00	
20e	Remove and Reset Granite Curb	LF	640	\$85.00	\$54,400.00	
20f	Restoration of Growth	SY	100	\$125.00	\$12,500.00	
21	Uniformed Police Officer Allowance	ALLOW	1	\$600,000.00	\$600,000.00	
22	Traffic Management	LS	1	\$200,000.00	\$200,000.00	
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	80	\$265.00	\$21,200.00	
24	Utility Support and Coordination	ALLOW	1	\$235,000.00	\$235,000.00	
25	Abutter Relocation	ALLOW	1	\$12,000.00	\$12,000.00	
26	For Furnishing and Placing Environmental Protection	LS	1	\$30,000.00	\$30,000.00	
27	Miscellaneous Work and Cleanup	LS	1	\$115,000.00	\$115,000.00	
					Subtotal	\$7,419,515.25
					Escalation to Midpoint (5%)	\$370,975.76
					Contingency (10%)	\$779,049.10
					Engineering Services	\$750,000.00
					Total (Rounded)	\$9,320,000.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
City of Framingham, MA  
254-1904  
100% Design Revised Opinion of Probable Construction Cost - Water  
Construction Midpoint - December 2024

Item No.	Description	Units	Water Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$200,458.63	\$200,458.63
2	Preconstruction Video and Photographs	LS	0.5	\$36,000.00	\$18,000.00
<b>3</b>	<b>WATER MAINS</b>				
3a	12-Inch DI Water Main	LF	15	\$425.00	\$6,375.00
3b	8-Inch DI Water Main	LF	2630	\$380.00	\$999,400.00
3c	6-Inch DI Water Main	LF	100	\$365.00	\$36,500.00
<b>4</b>	<b>GATE VALVES AND BOXES</b>				
4a	8-Inch Gate Valves and Boxes	EA	19	\$3,600.00	\$68,400.00
4b	6-Inch Gate Valves and Boxes	EA	6	\$2,100.00	\$12,600.00
5	Hydrant Assemblies	EA	5	\$15,000.00	\$75,000.00
<b>6</b>	<b>WATER SERVICE TAPS AND CURB BOXES</b>				
6a	1-Inch Water Service Taps and Curb Boxes	EA	4	\$1,400.00	\$5,600.00
6b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,900.00	\$3,800.00
6c	2-Inch Water Service Taps and Curb Boxes	EA	4	\$1,950.00	\$7,800.00
<b>7</b>	<b>WATER SERVICES</b>				
7a	1-Inch Water Services	LF	75	\$155.00	\$11,625.00
7b	1.5-Inch Water Services	LF	40	\$170.00	\$6,800.00
7c	2-Inch Water Services	LF	75	\$180.00	\$13,500.00
<b>8</b>	<b>FIRE SERVICES</b>				
8a	4-Inch Fire Service Connection	LF	25	\$280.00	\$7,000.00
8b	6-Inch Fire Service Connection	LF	65	\$195.00	\$12,675.00
8c	8-Inch Fire Service Connection	LF	20	\$335.00	\$6,700.00
<b>9</b>	<b>TEMPORARY BYPASS SYSTEMS</b>				
9a	6-Inch Temporary Bypass Piping	LF	1220	\$180.00	\$219,600.00
9b	8-Inch Temporary Bypass Piping	LF	2340	\$190.00	\$444,600.00
10	Additional Fittings	LB	1500	\$6.00	\$9,000.00
<b>14</b>	<b>STORMWATER</b>				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	1000	\$12.00	\$12,000.00
<b>15</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$145,000.00	\$72,500.00
15d	Soil Management Plans	LS	0.5	\$145,000.00	\$72,500.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	2000	\$80.00	\$160,000.00
15f	Removal and Disposal of Impacted Materials	TON	750	\$100.00	\$75,000.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	250	\$160.00	\$40,000.00
15h	Removal and Disposal of Lined Landfill Materials	TON	250	\$265.00	\$66,250.00
15i	Treatment of Contaminated Groundwater	ALLOW	0.5	\$60,000.00	\$30,000.00
<b>16</b>	<b>REMOVAL/ABANDONMENT OF UTILITIES</b>				
16a	Abandon Existing Sewer/Water Main with LDCC	CY	10	\$3,500.00	\$35,000.00
<b>17</b>	<b>EARTH EXCAVATION</b>				
17a	Exploratory Excavation	CY	132.5	\$40.00	\$5,300.00
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	250	\$9.50	\$2,375.00
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	165	\$380.00	\$62,700.00
17d	Rock Excavation	CY	125	\$80.00	\$10,000.00
<b>18</b>	<b>ADDITIONAL MATERIALS</b>				
18a	Select Fill	CY	400	\$9.00	\$3,600.00
18b	Special Borrow M1.02.0	CY	2500	\$12.00	\$30,000.00
18c	1500 PSI Concrete	CY	100	\$35.00	\$3,500.00
<b>19</b>	<b>PAVEMENT</b>				
19a	4-Inch Temporary Trench Pavement	SY	1340	\$68.00	\$91,120.00
19b	12-Inch Intermediate Trench Pavement	SY	2675	\$135.00	\$361,125.00
19c	2-Inch Milling	SY	3625	\$10.00	\$36,250.00
19d	2-Inch Overlay	SY	3625	\$27.50	\$99,687.50
<b>20</b>	<b>RESTORATION</b>				
20a	Bituminous Concrete Sidewalk	SY	67.5	\$18.00	\$1,215.00
20b	Portland Cement Concrete Sidewalk	SY	235	\$75.00	\$17,625.00
20c	Guard Rail	LF	325	\$235.00	\$76,375.00
20d	Miscellaneous Bituminous Concrete	TONS	250	\$70.00	\$17,500.00
20e	Remove and Reset Granite Curb	LF	585	\$85.00	\$49,725.00
20f	Restoration of Growth	SY	50	\$125.00	\$6,250.00
21	Uniformed Police Officer Allowance	ALLOW	0.5	\$600,000.00	\$300,000.00

**Worcester Road Water and Sewer Improvements Phase 2 - Westbound**  
**City of Framingham, MA**  
**254-1904**  
**100% Design Revised Opinion of Probable Construction Cost - Water**  
**Construction Midpoint - December 2024**

Item No.	Description	Units	Water Quantities	Unit Price	Extended Amount
22	Traffic Management	LS	0.5	\$200,000.00	\$100,000.00
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	40	\$265.00	\$10,600.00
24	Utility Support and Coordination	ALLOW	0.5	\$235,000.00	\$117,500.00
25	Abutter Relocation	ALLOW	0.5	\$12,000.00	\$6,000.00
26	For Furnishing and Placing Environmental Protection	LS	0.5	\$30,000.00	\$15,000.00
27	Miscellaneous Work and Cleanup	LS	0.5	\$115,000.00	\$57,500.00
Subtotal					\$4,209,631.13
Escalation to Midpoint (5%)					\$210,481.56
Contingency (10%)					\$442,011.27
Engineering Services					\$375,000.00
Total (Rounded)					\$5,240,000.00

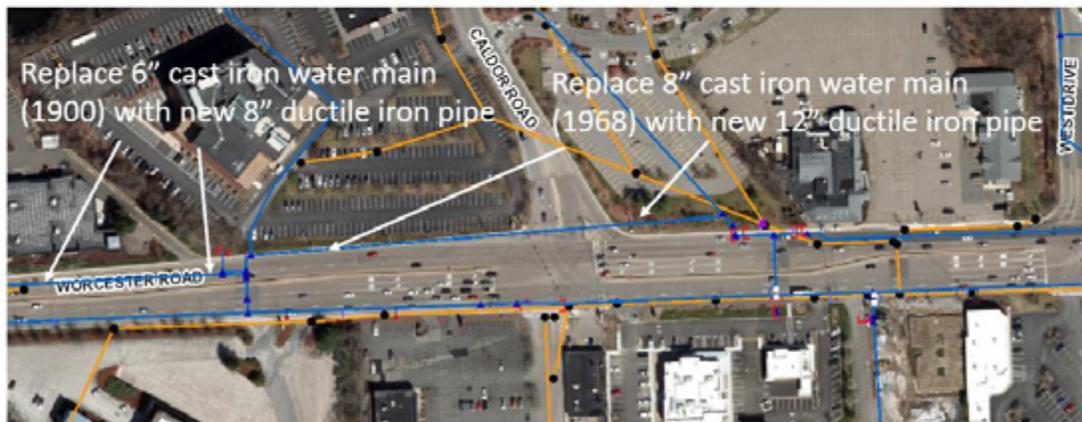
Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
City of Framingham, MA  
254-1904  
100% Design Revised Opinion of Probable Construction Cost - Sewer  
Construction Midpoint - December 2024

Item No.	Description	Units	Sewer Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$152,851.63	\$152,851.63
2	Preconstruction Video and Photographs	LS	0.5	\$36,000.00	\$18,000.00
<b>11</b>	<b>GRAVITY SEWERS</b>				
11a	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	1070	\$520.00	\$556,400.00
11b	8-Inch SDR 21 PVC Gravity Sewer Pipe	LF	195	\$530.00	\$103,350.00
11c	10-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	185	\$350.00	\$64,750.00
11d	8-Inch Epoxy Lined DI Gravity Sewer Pipe	LF	140	\$340.00	\$47,600.00
<b>12</b>	<b>SEWER SERVICE CONNECTIONS</b>				
12a	8-inch PVC Gravity Sewer Service	LF	30	\$700.00	\$21,000.00
12b	6-Inch PVC Gravity Sewer Service (Westbound Side)	LF	205	\$680.00	\$139,400.00
12c	6-Inch Epoxy Lined DI Sewer Service (Westbound Side)	LF	65	\$680.00	\$44,200.00
<b>13</b>	<b>SEWER MANHOLES</b>				
13a	4-foot Diameter Sewer Manhole	VF	50	\$1,200.00	\$60,000.00
13b	5-foot Diameter Sewer Manhole	VF	24	\$1,400.00	\$33,600.00
13c	Sewer Manhole Frame and Cover	EA	9	\$1,100.00	\$9,900.00
13d	Rebuild Existing Sewer Manhole Invert	EA	1	\$2,500.00	\$2,500.00
13e	Remove and Dispose of Existing Sewer Manhole	EA	1	\$675.00	\$675.00
13f	Epoxy Line Sewer Manhole	VF	10	\$700.00	\$7,000.00
13g	Cement Line Existing Sewer Manhole	VF	5	\$350.00	\$1,750.00
<b>14</b>	<b>STORMWATER</b>				
14a	Removal and Replacement of Storm Drain Utilities	IN-FT	1000	\$12.00	\$12,000.00
<b>15</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
15a	AC Pipe Removal and Disposal	LF	20	\$70.00	\$1,400.00
15b	Management and Disposal of Crushed AC Pipe and AC Impacted soils	CY	100	\$270.00	\$27,000.00
15c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$145,000.00	\$72,500.00
15d	Soil Management Plans	LS	0.5	\$145,000.00	\$72,500.00
15e	Removal and Disposal of Background or Unregulated Soil Materials	TON	2000	\$80.00	\$160,000.00
15f	Removal and Disposal of Impacted Materials	TON	750	\$100.00	\$75,000.00
15g	Removal and Disposal of Unlined Landfill Materials	TON	250	\$160.00	\$40,000.00
15h	Removal and Disposal of Lined Landfill Materials	TON	250	\$265.00	\$66,250.00
15i	Treatment of Contaminated Groundwater	ALLOW	0.5	\$60,000.00	\$30,000.00
<b>16</b>	<b>REMOVAL/ABANDONMENT OF UTILITIES</b>				
16b	Abandon Existing Structure in Place with CDF	CY	150	\$140.00	\$21,000.00
16c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	15	\$2,350.00	\$35,250.00
16d	Cut, Cap, Abandon Sewer Lateral in Place	EA	26	\$1,200.00	\$31,200.00
<b>17</b>	<b>EARTH EXCAVATION</b>				
17a	Exploratory Excavation	CY	132.5	\$40.00	\$5,300.00
17b	Excavation of Unsuitable Materials Below Trench Grade	CY	250	\$9.50	\$2,375.00
17c	For Performing Soil Compaction Tests, as Specified	1/2 Day	165	\$380.00	\$62,700.00
17d	Rock Excavation	CY	125	\$80.00	\$10,000.00
<b>18</b>	<b>ADDITIONAL MATERIALS</b>				
18a	Select Fill	CY	400	\$9.00	\$3,600.00
18b	Special Borrow M1.02.0	CY	2500	\$12.00	\$30,000.00
18c	1500 PSI Concrete	CY	100	\$35.00	\$3,500.00
<b>19</b>	<b>PAVEMENT</b>				
19a	4-Inch Temporary Trench Pavement	SY	1460	\$68.00	\$99,280.00
19b	12-Inch Intermediate Trench Pavement	SY	2325	\$135.00	\$313,875.00
19c	2-Inch Milling	SY	3625	\$10.00	\$36,250.00
19d	2-Inch Overlay	SY	3625	\$27.50	\$99,687.50
<b>20</b>	<b>RESTORATION</b>				
20a	Bituminous Concrete Sidewalk	SY	67.5	\$18.00	\$1,215.00
20d	Miscellaneous Bituminous Concrete	TONS	250	\$70.00	\$17,500.00
20e	Remove and Reset Granite Curb	LF	55	\$85.00	\$4,675.00
20f	Restoration of Growth	SY	50	\$125.00	\$6,250.00
21	Uniformed Police Officer Allowance	ALLOW	0.5	\$600,000.00	\$300,000.00
22	Traffic Management	LS	0.5	\$200,000.00	\$100,000.00
23	Variable Message Boards as Shown and Specified	BOARD-WEEKS	40	\$265.00	\$10,600.00
24	Utility Support and Coordination	ALLOW	0.5	\$235,000.00	\$117,500.00
25	Abutter Relocation	ALLOW	0.5	\$12,000.00	\$6,000.00
26	For Furnishing and Placing Environmental Protection	LS	0.5	\$30,000.00	\$15,000.00

Worcester Road Water and Sewer Improvements Phase 2 - Westbound  
 City of Framingham, MA  
 254-1904  
 100% Design Revised Opinion of Probable Construction Cost - Sewer  
 Construction Midpoint - December 2024

Item No.	Description	Units	Sewer Quantities	Unit Price	Extended Amount
27	Miscellaneous Work and Cleanup	LS	0.5	\$115,000.00	\$57,500.00
				Subtotal	\$3,209,884.13
				Escalation to Midpoint (5%)	\$160,494.21
				Contingency (10%)	\$337,037.83
				Engineering Services	\$375,000.00
				Total (Rounded)	\$4,080,000.00

### Worcester Road Water and Sewer Improvements Phase II (Westbound)



Installing new water and sewer infrastructure will substantially reduce potential of failure, improve reliability, and increase capacity for area businesses and residents.

**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:**   
**PROJECT STATUS:**

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
 Upgrading 5,000 feet of existing 6-inch cast iron and 8-inch asbestos-cement water main on Pleasant Street and Temple Street with new 12" cement-lined ductile iron main will improve flow capacity and substantially increase reliability of the water system. This request is for construction on Pleasant St. from just west of Belknap Rd. to Vernon St. and on Temple St. from Pleasant St. to the I-90. The project will also include new connections to side streets, valves, hydrants, and copper services to each customer's property line. The existing water mains are more than 7 decades old. The 8-inch main on Pleasant Street is beneath the curb and difficult to access for repairs. The 6-inch diameter cast iron main on Temple Street is unlined, which has led to interior tuberculation and corrosion causing decreased capacity. The construction is proposed to be combined with construction to replace sewers in the area, resulting in lower construction costs and much less disruption to the neighborhood and commuters in this busy corridor than if the projects were to be undertaken separately.

(3) **PURPOSE OF PROJECT:**

<input checked="" type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input type="checkbox"/>	Replace existing vehicle
<input type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction	4,190,000					
e. Equipment/Vehicles						
f. Contingency						
g. Other						
<b>TOTAL</b>	4,190,000	-	-	-	-	-

(5) **PRIORITY:**

a. <input type="checkbox"/>	<b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/>	<b>level service maintenance</b>	maintains City desired level of service
c. <input type="checkbox"/>	<b>economic development</b>	adds to the City's economic vibrancy
d. <input type="checkbox"/>	<b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- 
- 
- 

(10) **PROJECT OR EQUIPMENT LOCATION:**  
  
 (11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

<b>(8) PROJECT LEAD NAME &amp; CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)</b>	
	Robert A. Lewis
<b>(9) FINANCE DEPARTMENT NOTES:</b>	



October 4, 2023

Mr. Robert H. Sheldon, PE  
Director, Capital Projects  
Department of Public Works  
Capital Improvement Program  
110 Western Avenue  
Framingham, MA 01702

**RE: Framingham: Capital Project Planning  
Pleasant Street Water and Sewer Replacement  
Updated Cost Estimate**

Dear Robert:

As requested, Environmental Partners Group, LLC (Environmental Partners) has updated the cost estimate for this project. The detailed cost estimate is attached, and assumes construction in 2024.

Please feel free to contact me if you have any questions or would like to discuss this project further.

Very Truly Yours,

**Environmental Partners Group, LLC**

A handwritten signature in black ink that reads "Paul C. Millett".

Paul C. Millett, P.E.  
Senior Principal  
P: (617) 657-0276  
E: [pcm@envpartners.com](mailto:pcm@envpartners.com)

Attached: Updated Cost Estimate

[envpartners.com](http://envpartners.com)

Pleasant Street Pump Station Downstream Utility Replacement  
City of Framingham, MA  
254-2001  
90% Design Opinion of Probable Construction Cost

WATER CONSTRUCTION					
Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$134,297.28	\$134,297.28
<b>2</b>	<b>WATER MAINS</b>				
2a	12-Inch DI Water Main	LF	5,020	\$250.00	\$1,255,000.00
2b	10-Inch DI Water Main	LF	10	\$230.00	\$2,300.00
2c	8-Inch DI Water Main	LF	260	\$200.00	\$52,000.00
2d	6-Inch DI Water Main	LF	130	\$200.00	\$26,000.00
2e	Additional Fittings	LB	2,000	\$5.00	\$10,000.00
<b>3</b>	<b>VALVES AND HYDRANTS</b>				
3a	12-Inch Gate Valves and Boxes	EA	26	\$5,000.00	\$130,000.00
3d	6-Inch Gate Valves and Boxes	EA	11	\$1,800.00	\$19,800.00
3e	Hydrant Assemblies	EA	11	\$7,500.00	\$82,500.00
<b>4</b>	<b>WATER SERVICE TAPS AND CURB BOXES</b>				
4a	1-Inch Water Service Taps and Curb Boxes	EA	30	\$1,000.00	\$30,000.00
4b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,200.00	\$2,400.00
4c	2-Inch Water Service Taps and Curb Boxes	EA	1	\$1,400.00	\$1,400.00
<b>5</b>	<b>WATER SERVICES</b>				
5a	1-Inch Water Services	LF	600	\$100.00	\$60,000.00
5b	1.5-Inch Water Services	LF	70	\$120.00	\$8,400.00
5c	2-Inch Water Services	LF	40	\$140.00	\$5,600.00
<b>6</b>	<b>TEMPORARY WATER BYPASS SYSTEM</b>				
6	6-Inch Temporary Water Bypass Piping	LF	440	\$150.00	\$66,000.00
<b>13</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
13a	AC Pipe Removal and Disposal	LF	170	\$55.00	\$9,350.00
13b	Management and Disposal of Crushed AC Pipe and AC Impacted Soils	CY	50	\$320.00	\$16,000.00
13c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$75,000.00	\$37,500.00
13d	Soil Management Plans	LS	0.5	\$75,000.00	\$37,500.00
13e	Removal and Disposal of Background or Unregulated Soil Materials	TON	50	\$20.00	\$1,000.00
13f	Removal and Disposal of Impacted Materials	TON	250	\$25.00	\$6,250.00
13g	Removal and Disposal of Unlined Landfill Materials	TON	375	\$45.00	\$16,875.00
13h	Removal and Disposal of Lined Landfill Materials	TON	50	\$50.00	\$2,500.00
<b>14</b>	<b>REMOVAL/INSPECTION/ABANDONMENT OF UTILITIES</b>				
14e	Remove and Dispose of Existing Cast Iron Water Main	LF	190	\$50.00	\$9,500.00
<b>15</b>	<b>EARTHWORK</b>				
15a	Exploratory Excavation	CY	125	\$34.00	\$4,250.00
15b	Excavation of Unsuitable Materials Below Trench Grade	CY	125	\$8.00	\$1,000.00
15c	Rock Excavation	CY	50	\$64.00	\$3,200.00
15d	Select Fill	CY	250	\$7.50	\$1,875.00
<b>16</b>	<b>PAVEMENT (Water)</b>				
16a	4-Inch Temporary Trench Pavement	SY	2,250	\$35.00	\$78,750.00
16b	6-Inch Intermediate Trench Pavement	SY	2,250	\$60.00	\$135,000.00
16c	2-Inch Milling	SY	8,250	\$8.00	\$66,000.00
16d	2-Inch Overlay	SY	8,250	\$20.00	\$165,000.00
16e	Miscellaneous Bituminous Concrete	TONS	125	\$58.00	\$7,250.00
<b>17</b>	<b>RESTORATION (Water)</b>				
17a	Bituminous Concrete Sidewalk	SY	40	\$15.00	\$600.00
17b	Bituminous Concrete Curb	LF	90	\$25.00	\$2,250.00
17d	Remove and Reset Granite Curb	LF	180	\$70.00	\$12,600.00
17e	Restoration of Growth	SY	109	\$106.00	\$11,545.52
17f	Remove and Replace Guardrail	LF	10	\$200.00	\$2,000.00
17g	Remove and Replace Chain Link Fence	LF	10	\$100.00	\$1,000.00
<b>18</b>	<b>TRAFFIC MANAGEMENT</b>				
18a	Uniformed Police Officer Allowance	ALLOW	0.4	\$380,000.00	\$152,000.00
18b	Traffic Management	LS	0.5	\$150,000.00	\$75,000.00
18c	Variable Message Boards	BOARD-WEEKS	50	\$225.00	\$11,250.00
<b>19</b>	<b>MISCELLANEOUS</b>				
19b	Utility Support and Coordination	ALLOW	0.5	\$50,000.00	\$25,000.00
19c	Abutter Relocation	ALLOW	0.5	\$10,000.00	\$5,000.00
19d	For Furnishing and Placing Environmental Protection	LS	0.5	\$25,000.00	\$12,500.00
19e	Miscellaneous Work and Cleanup	LS	0.5	\$50,000.00	\$25,000.00
<b>Water Subtotal</b>					<b>\$2,820,242.80</b>
<b>Contingency (15%)</b>					<b>\$423,036.42</b>
<b>Engineering Services (20%)</b>					<b>\$564,048.56</b>
<b>Water Total (April 2022)</b>					<b>\$3,807,327.77</b>
<b>Water Total (October 2023)<sup>1</sup></b>					<b>\$4,188,060.55</b>

SEWER CONSTRUCTION					
Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$215,855.13	\$215,855.13
<b>3</b>	<b>VALVES AND HYDRANTS</b>				
3b	10-Inch Gate Valves and Boxes	EA	1	\$4,500.00	\$4,500.00
3c	8-Inch Gate Valves and Boxes	EA	12	\$3,500.00	\$42,000.00
<b>7</b>	<b>GRAVITY SEWER MAINS</b>				
7a	18-Inch SDR 35 PVC Gravity Sewer Pipe (0-ft to 12-ft Deep)	LF	1,100	\$235.00	\$258,500.00
7b	18-Inch SDR 35 PVC Gravity Sewer Pipe (12-ft to 18-ft Deep)	LF	50	\$250.00	\$12,500.00
7c	15-Inch SDR 35 PVC Gravity Sewer Pipe	LF	2,530	\$225.00	\$569,250.00
7d	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	50	\$175.00	\$8,750.00
<b>8</b>	<b>SEWER FORCE MAINS</b>				
8a	10-inch SDR 21 PVC Sewer Force Main	LF	1,530	\$145.00	\$221,850.00
8b	8-inch SDR 21 PVC Sewer Force Main	LF	50	\$120.00	\$6,000.00
<b>9</b>	<b>SEWER SERVICE CONNECTIONS</b>				
9a	6-Inch PVC Gravity Sewer Service	LF	510	\$105.00	\$53,550.00
<b>10</b>	<b>SEWER MANHOLES</b>				
10a	4-foot Diameter Sewer Manhole	VF	160	\$1,000.00	\$160,000.00
10b	5-foot Diameter Sewer Manhole	VF	30	\$1,500.00	\$45,000.00
10c	4-foot Diameter Cleanout Manhole	EA	1	\$10,000.00	\$10,000.00
10d	4-foot Diameter Air Release Valve Manhole	EA	1	\$12,000.00	\$12,000.00
10e	6-foot Diameter Overflow Manhole	EA	1	\$30,000.00	\$30,000.00
10f	4-foot Diameter Doghouse Manhole	EA	1	\$20,000.00	\$20,000.00
10g	Sewer Manhole Frame and Cover	EA	25	\$950.00	\$23,750.00
10h	Remove and Dispose of Existing Sewer Manhole	EA	4	\$570.00	\$2,280.00
<b>11</b>	<b>SEWER REHABILITATION</b>				
11a	10-inch Cast Iron Gravity Sewer Cleaning, Cement Lining and Access Pits	LF	310	\$160.00	\$49,600.00
<b>12</b>	<b>STORMWATER</b>				
12a	4-foot Diameter Deep Sump Catch Basin	EA	2	\$6,000.00	\$12,000.00
12b	12-inch HDPE Drain Pipe	LF	30	\$160.00	\$4,800.00
12c	Removal and Replacement of Storm Water Utilities	IN-FT	900	\$15.00	\$13,500.00
<b>13</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
13a	AC Pipe Removal and Disposal	LF	170	\$55.00	\$9,350.00
13b	Management and Disposal of Crushed AC Pipe and AC Impacted Soils	CY	50	\$320.00	\$16,000.00
13c	Removal and Disposal of Unforeseen Asbestos	ALLOW	0.5	\$75,000.00	\$37,500.00
13d	Soil Management Plans	LS	0.5	\$75,000.00	\$37,500.00
13e	Removal and Disposal of Background or Unregulated Soil Materials	TON	50	\$20.00	\$1,000.00
13f	Removal and Disposal of Impacted Materials	TON	250	\$25.00	\$6,250.00
13g	Removal and Disposal of Unlined Landfill Materials	TON	375	\$45.00	\$16,875.00
13h	Removal and Disposal of Lined Landfill Materials	TON	50	\$50.00	\$2,500.00
<b>14</b>	<b>REMOVAL/INSPECTION/ABANDONMENT OF UTILITIES</b>				
14a	Abandon Existing Sewer, Force Main and Water Main with LDCC	CY	550	\$3,000.00	\$1,650,000.00
14b	Abandon Existing Structure in Place with CDF	VF	140	\$150.00	\$21,000.00
14c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	2	\$2,000.00	\$4,000.00
14d	Cleaning and CCTV Inspection of Existing Gravity Sewer	LF	340	\$10.00	\$3,400.00
<b>15</b>	<b>EARTHWORK</b>				
15a	Exploratory Excavation	CY	125	\$34.00	\$4,250.00
15b	Excavation of Unsuitable Materials Below Trench Grade	CY	125	\$8.00	\$1,000.00
15c	Rock Excavation	CY	50	\$64.00	\$3,200.00
15d	Select Fill	CY	250	\$7.50	\$1,875.00
<b>16</b>	<b>PAVEMENT (Sewer)</b>				
16a	4-Inch Temporary Trench Pavement	SY	2,845	\$35.00	\$99,572.36
16b	6-Inch Intermediate Trench Pavement	SY	2,845	\$60.00	\$170,695.47
16c	2-Inch Milling	SY	8,250	\$8.00	\$66,000.00
16d	2-Inch Overlay	SY	8,250	\$20.00	\$165,000.00
16e	Miscellaneous Bituminous Concrete	TONS	125	\$58.00	\$7,250.00
<b>17</b>	<b>RESTORATION (Sewer)</b>				
17a	Bituminous Concrete Sidewalk	SY	30	\$15.00	\$450.00
17b	Bituminous Concrete Curb	LF	25	\$25.00	\$625.00
17c	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00
17b	Remove and Reset Granite Curb	LF	150	\$70.00	\$10,500.00
17c	Restoration of Growth	SY	139	\$106.00	\$14,729.76
17d	Remove and Replace Guardrail	LF	10	\$200.00	\$2,000.00
17e	Remove and Replace Chain Link Fence	LF	10	\$100.00	\$1,000.00

<b>18</b>	<b>TRAFFIC MANAGEMENT</b>				
18a	Uniformed Police Officer Allowance	ALLOW	0.6	\$380,000.00	\$228,000.00
18b	Traffic Management	LS	0.5	\$150,000.00	\$75,000.00
18c	Variable Message Boards	DARD-WEE	50	\$225.00	\$11,250.00
<b>19</b>	<b>MISCELLANEOUS</b>				
19a	Clearing for Overflow Sewer	LS	1.0	\$20,000.00	\$20,000.00
19b	Utility Support and Coordination	ALLOW	0.5	\$50,000.00	\$25,000.00
19c	Abutter Relocation	ALLOW	0.5	\$10,000.00	\$5,000.00
19d	For Furnishing and Placing Environmental Protection	LS	0.5	\$25,000.00	\$12,500.00
19e	Miscellaneous Work and Cleanup	LS	0.5	\$50,000.00	\$25,000.00

Notes:

(1) Cost increase from April 2022 to October 2023 is based on 10% cost escalation.

<b>Sewer Subtotal</b>	<b>\$4,532,957.71</b>
<b>Contingency (15%)</b>	<b>\$679,943.66</b>
<b>Engineering Services (20%)</b>	<b>\$906,591.54</b>
<b>Sewer Total (April 2022)</b>	<b>\$6,119,492.91</b>
<b>Sewer Total (October 2023) <sup>1</sup></b>	<b>\$6,731,442.20</b>

Pleasant Street Pump Station Downstream Utility Replacement  
City of Framingham, MA  
254-2001  
90% Design Opinion of Probable Construction Cost - Combined Water and Sewer Construction

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
1	Mobilization and Demobilization (5%)	LS	1	\$352,254.91	\$352,254.91
<b>2</b>	<b>WATER MAINS</b>				
2a	12-Inch DI Water Main	LF	5,020	\$250.00	\$1,255,000.00
2b	10-Inch DI Water Main	LF	10	\$230.00	\$2,300.00
2c	8-Inch DI Water Main	LF	260	\$200.00	\$52,000.00
2d	6-Inch DI Water Main	LF	130	\$200.00	\$26,000.00
2e	Additional Fittings <sup>(1)</sup>	LB	2,000	\$5.00	\$10,000.00
<b>3</b>	<b>VALVES AND HYDRANTS</b>				
3a	12-Inch Gate Valves and Boxes	EA	26	\$5,000.00	\$130,000.00
3b	10-Inch Gate Valves and Boxes	EA	1	\$4,500.00	\$4,500.00
3c	8-Inch Gate Valves and Boxes	EA	12	\$3,500.00	\$42,000.00
3d	6-Inch Gate Valves and Boxes	EA	11	\$1,800.00	\$19,800.00
3e	Hydrant Assemblies	EA	11	\$7,500.00	\$82,500.00
<b>4</b>	<b>WATER SERVICE TAPS AND CURB BOXES</b>				
4a	1-Inch Water Service Taps and Curb Boxes	EA	30	\$1,000.00	\$30,000.00
4b	1.5-Inch Water Service Taps and Curb Boxes	EA	2	\$1,200.00	\$2,400.00
4c	2-Inch Water Service Taps and Curb Boxes	EA	1	\$1,400.00	\$1,400.00
<b>5</b>	<b>WATER SERVICES</b>				
5a	1-Inch Water Services	LF	600	\$100.00	\$60,000.00
5b	1.5-Inch Water Services	LF	70	\$120.00	\$8,400.00
5c	2-Inch Water Services	LF	40	\$140.00	\$5,600.00
<b>6</b>	<b>TEMPORARY WATER BYPASS SYSTEM</b>				
6	6-Inch Temporary Water Bypass Piping	LF	440	\$150.00	\$66,000.00
<b>7</b>	<b>GRAVITY SEWER MAINS</b>				
7a	18-Inch SDR 35 PVC Gravity Sewer Pipe (0-ft to 12-ft Deep)	LF	1,030	\$235.00	\$242,050.00
7b	18-Inch SDR 35 PVC Gravity Sewer Pipe (12-ft to 18-ft Deep)	LF	20	\$250.00	\$5,000.00
7c	15-Inch SDR 35 PVC Gravity Sewer Pipe	LF	2,530	\$225.00	\$569,250.00
7d	8-Inch SDR 35 PVC Gravity Sewer Pipe	LF	50	\$175.00	\$8,750.00
<b>8</b>	<b>SEWER FORCE MAINS</b>				
8a	10-inch SDR 21 PVC Sewer Force Main	LF	1,530	\$145.00	\$221,850.00
8b	8-inch SDR 21 PVC Sewer Force Main	LF	75	\$120.00	\$9,000.00
8c	10-inch Epoxy Lined DI Sewer Force Main	LF	190	\$200.00	\$38,000.00
<b>9</b>	<b>SEWER SERVICE CONNECTIONS</b>				
9a	6-Inch PVC Gravity Sewer Service	LF	510	\$105.00	\$53,550.00
<b>10</b>	<b>SEWER MANHOLES</b>				
10a	4-foot Diameter Sewer Manhole	VF	170	\$1,000.00	\$170,000.00
10b	5-foot Diameter Sewer Manhole	VF	40	\$1,500.00	\$60,000.00
10c	4-foot Diameter Cleanout Manhole	EA	1	\$10,000.00	\$10,000.00
10d	4-foot Diameter Air Release Valve Manhole	EA	1	\$12,000.00	\$12,000.00
10e	6-foot Diameter Overflow Manhole	EA	1	\$30,000.00	\$30,000.00
10f	4-foot Diameter Doghouse Manhole	EA	1	\$20,000.00	\$20,000.00
10g	Sewer Manhole Frame and Cover	EA	25	\$950.00	\$23,750.00
10h	Remove and Dispose of Existing Sewer Manhole	EA	4	\$570.00	\$2,280.00
<b>11</b>	<b>SEWER REHABILITATION</b>				
11a	Cleaning and Structural CIPP Lining - 10-inch Sewer	LF	310	\$160.00	\$49,600.00
<b>12</b>	<b>STORMWATER</b>				
12a	4-foot Diameter Deep Sump Catch Basin	EA	2	\$6,000.00	\$12,000.00
12b	12-inch HDPE Drain Pipe	LF	30	\$160.00	\$4,800.00
12c	Removal and Replacement of Storm Water Utilities <sup>(1)</sup>	IN-FT	900	\$15.00	\$13,500.00
<b>13</b>	<b>CONTAMINATED MATERIAL MANAGEMENT</b>				
13a	AC Pipe Removal and Disposal	LF	340	\$55.00	\$18,700.00
13b	Management and Disposal of Crushed AC Pipe and AC Impacted Soils <sup>(1)</sup>	CY	100	\$320.00	\$32,000.00
13c	Removal and Disposal of Unforeseen Asbestos <sup>(1)</sup>	ALLOW	1	\$75,000.00	\$75,000.00
13d	Soil Management Plans	LS	1	\$75,000.00	\$75,000.00
13e	Removal and Disposal of Background or Unregulated Soil Materials <sup>(1)</sup>	TON	100	\$20.00	\$2,000.00
13f	Removal and Disposal of Impacted Materials <sup>(1)</sup>	TON	500	\$25.00	\$12,500.00
13g	Removal and Disposal of Unlined Landfill Materials <sup>(1)</sup>	TON	750	\$45.00	\$33,750.00
13h	Removal and Disposal of Lined Landfill Materials <sup>(1)</sup>	TON	100	\$50.00	\$5,000.00

Pleasant Street Pump Station Downstream Utility Replacement  
City of Framingham, MA  
254-2001  
90% Design Opinion of Probable Construction Cost - Combined Water and Sewer Construction

Item No.	Description	Units	Bid Quantities	Unit Price	Extended Amount
<b>14</b>	<b>REMOVAL/INSPECTION/ABANDONMENT OF UTILITIES</b>				
14a	Abandon Existing Sewer, Force Main and Water Main with LDCC	CY	550	\$3,000.00	\$1,650,000.00
14b	Abandon Existing Structure in Place with CDF	VF	140	\$150.00	\$21,000.00
14c	Cleaning and CCTV Inspection of Existing Sewer Lateral	EA	2	\$2,000.00	\$4,000.00
14d	Cleaning and CCTV Inspection of Existing Gravity Sewer	LF	340	\$10.00	\$3,400.00
14e	Remove and Dispose of Existing Cast Iron Water Main	LF	190	\$50.00	\$9,500.00
<b>15</b>	<b>EARTHWORK</b>				
15a	Exploratory Excavation	CY	250	\$34.00	\$8,500.00
15b	Excavation of Unsuitable Materials Below Trench Grade <sup>(1)</sup>	CY	250	\$8.00	\$2,000.00
15c	Rock Excavation <sup>(1)</sup>	CY	100	\$64.00	\$6,400.00
15d	Select Fill <sup>(1)</sup>	CY	500	\$7.50	\$3,750.00
<b>16</b>	<b>PAVEMENT</b>				
16a	4-Inch Temporary Trench Pavement	SY	5,095	\$35.00	\$178,322.36
16b	6-Inch Intermediate Trench Pavement	SY	5,095	\$60.00	\$305,695.47
16c	2-Inch Milling	SY	16,500	\$8.00	\$132,000.00
16d	2-Inch Overlay	SY	16,500	\$20.00	\$330,000.00
16e	Miscellaneous Bituminous Concrete <sup>(1)</sup>	TONS	250	\$58.00	\$14,500.00
<b>17</b>	<b>RESTORATION</b>				
17a	Bituminous Concrete Sidewalk	SY	70	\$15.00	\$1,050.00
17b	Bituminous Concrete Curb	LF	115	\$25.00	\$2,875.00
17c	Cement Concrete Wheelchair Ramp	SY	20	\$100.00	\$2,000.00
17d	Remove and Reset Granite Curb	LF	330	\$70.00	\$23,100.00
17e	Restoration of Growth	SY	248	\$106.00	\$26,275.28
17f	Remove and Replace Guardrail	LF	20	\$200.00	\$4,000.00
17g	Remove and Replace Chain Link Fence	LF	20	\$100.00	\$2,000.00
<b>18</b>	<b>TRAFFIC MANAGEMENT</b>				
18a	Uniformed Police Officer Allowance <sup>(2)</sup>	ALLOW	1	\$380,000.00	\$380,000.00
18b	Traffic Management	LS	1	\$150,000.00	\$150,000.00
18c	Variable Message Boards	BOARD-WEEKS	100	\$225.00	\$22,500.00
<b>19</b>	<b>MISCELLANEOUS</b>				
19a	Clearing for Overflow Sewer	LS	1	\$20,000.00	\$20,000.00
19b	Utility Support and Coordination	ALLOW	1	\$50,000.00	\$50,000.00
19c	Abutter Relocation	ALLOW	1	\$10,000.00	\$10,000.00
19d	For Furnishing and Placing Environmental Protection	LS	1	\$25,000.00	\$25,000.00
19e	Miscellaneous Work and Cleanup	LS	1	\$50,000.00	\$50,000.00
<b>Subtotal</b>					<b>\$7,397,353.01</b>
<b>Contingency (15%)</b>					<b>\$1,109,602.95</b>
<b>Engineering Services (20%)</b>					<b>\$1,479,470.60</b>
<b>Total (April 2022)</b>					<b>\$9,986,426.56</b>
<b>Total (October 2023)<sup>1</sup></b>					<b>\$10,985,069.22</b>

Notes

1) Cost increase from April 2022 to October 2023 is based on 10% cost escalation.



**ENVIRONMENTAL PARTNERS**

- Legend**
- Pump Station
  - Parcels
  - Existing Sewer
  - Force Main Replacement Limits
  - Water Main Replacement Limits
  - Gravity Replacement Sewer Limits
  - New Gravity Sewer Limits
  - Gravity Sewer Rehabilitation Limits

**Pleasant Street Water and Sewer Replacement - Phase I  
Project Area Locus Map  
Framingham, MA  
June 2021**

**CITY OF FRAMINGHAM  
CAPITAL PROJECT/EQUIPMENT REQUEST - FY2025-2034 CIP**

DEPARTMENT:

DEPARTMENT PRIORITY:

(1) **PROJECT NAME:** Consolidated Vehicle/Equipment - Water  
**PROJECT STATUS:** Existing in Edmunds

(2) **PROJECT DESCRIPTION AND JUSTIFICATION:**  
 Vehicle and equipment per Public Work's vehicle management and replacement schedule. The procurement and upkeep of equipment is a significant factor in providing cost-effective and reliable service for systems operation, maintenance, repair, rehabilitation and replacements. All vehicles and equipment are managed through the Fleet Department and included within a replacement schedule according to specific criteria, such as age, mileage, and major repairs needed for continued reliable service. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, nearly all vehicles and equipment are used for the Department's snow and ice management program which is particularly destructive to vehicles.

(3) **PURPOSE OF PROJECT:**

<input type="checkbox"/>	Replace existing infrastructure
<input type="checkbox"/>	Replace existing capital asset
<input checked="" type="checkbox"/>	Replace existing vehicle
<input checked="" type="checkbox"/>	Replace equipment
<input type="checkbox"/>	New infrastructure
<input type="checkbox"/>	New capital asset
<input type="checkbox"/>	New vehicle
<input type="checkbox"/>	New equipment
<input type="checkbox"/>	Strategic/Comprehensive/Master plan

**PROJECT ADDITIONS/CHANGES JUSTIFICATION:**

(4) **BUDGET REQUEST BY YEAR:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY 30-34
a. Land Acquisition						
b. Planning / Feasibility						
c. Design						
d. Construction						
e. Equipment/Vehicles	754,000	445,000	445,000	225,000	265,000	
f. Contingency						
g. Other						
<b>TOTAL</b>	<b>754,000</b>	<b>445,000</b>	<b>445,000</b>	<b>225,000</b>	<b>265,000</b>	<b>-</b>

(5) **PRIORITY:**

a. <input checked="" type="checkbox"/> <b>health and safety</b>	safety concern, hazardous condition, agency compliance, non-functional, etc
b. <input checked="" type="checkbox"/> <b>level service maintenance</b>	maintains City desired level of service
c. <input type="checkbox"/> <b>economic development</b>	adds to the City's economic vibrancy
d. <input type="checkbox"/> <b>service improvement</b>	new or improved service to meet demand

(6) **EFFECTS ON ANNUAL OPERATING BUDGET:**

	FY 25	FY 26	FY 27	FY 28	FY 29	FY30	YEARS 30-34
Personnel							
Operating							

(7) **PROPOSED FUNDING SOURCE(S):**

- 
- 
- 

(10) **PROJECT OR EQUIPMENT LOCATION:**  
  
 (11) **ASSET TYPE:**

(7a) **POTENTIAL GRANT FUNDING SOURCE IF APPLICABLE: (List source and matching requirements)**

(8) **PROJECT LEAD NAME & CONTACT INFO: (ADDITIONAL PROJECT INFO AS NEEDED)**

Robert A. Lewis

(9) FINANCE DEPARTMENT NOTES:

DRAFT

Public Works - Fleet Replacement Program

DRAFT

UNIT #	Division Assignment	IN SERVICE	YEAR	CURRENT	VIN	DESCRIPTION	AGE 2023	LIFE	REPLACE DUE	2023	2024	2025	2026	2027	2028	2029
										YES						
1	Admin.	Lewis, R.	2014	FORD	1FAHP2H1E1G107230	FORD TAURUS	11	15	2024		\$50,000					
8	Admin.	Sedewitz, W.	2015	FORD	1FAHP2H2F1G112096	FORD TAURUS	8	15	2030							
64	Engineering	Norsworthy, J.	2013	FORD	1FMSK8AR2DGB28647	FORD EXPLORER	10	15	2028						\$49,000.00	
74	Engineering	Tomassini, J.	2015	FORD	1FMSK8AR9FCA78512	FORD EXPLORER	8	15	2030							
80	Engineering	Johnson, E.	2011	FORD	1FAHP2H1W3BG113284	FORD TAURUS	12	15	2026				\$29,000.00			
801	Engineering	Marchessault, R.	2015	NISSAN	1NAZ0CP3C318793	NISSAN LEAF	8	10	2025			\$45,000.00				
802	Engineering - DNR	Alexandrovich, S.	2013	FORD	1FMSK8AR4DGB28648	FORD EXPLORER	10	15	2028						\$49,000.00	
803	Engineering - DNR	Curran, T. & Surwyor	2013	FORD	1FMSK8BR9CDB86034	FORD EXPLORER	10	15	2028						\$49,000.00	
804	Engineering	Stok, A. & Di Permitti	2013	FORD	1FAHP2H1W3BG11654	FORD TAURUS	10	15	2028						\$29,000.00	
805	Engineering	Sheldon, R.	2015	FORD	1FMCU8G99FUB65309	FORD ESCAPE	8	15	2030							
808	Engineering	Kovar, LoCasto, Nguyen	2011	FORD		FORD ESCAPE	8	15	2026				\$29,000.00			
F12	Engineering	Hayes, M.	2015	NISSAN	1NAZ0CP3C31866	NISSAN LEAF	8	10	2025			\$45,000.00				
3	Fleet	Rousseau, J.	2014	FORD	1FMSK8D87EGB54570	FORD EXPLORER	9	15	2029							
301	Fleet		2008	FORD	1FDUF5T77E6A4641	15,000 GVW 4 WD C&C W/UTILITY BODY	17	15	2021				\$140,000.00			
302	Fleet		2015	FORD	1FDUFSHT0FEA88894	17,500 GVW 4WD C & C W/ SERVICE BODY	8	15	2030							
303	Fleet		2013	FORD	1FTFX1E14DFA07924	3,200 GVW 4WD PICKUP TRK	10	15	2028						\$55,000.00	
304	Fleet		2002	CAT	AT28850137	12,000# FORK LIFT	21	25	2027						\$90,000.00	
4	Highway	Ronconi, K.	2014	FORD	1FMSK8AR8EG69025	EXPLORER-4WD UTILITY VEHICLE	9	15	2029							\$60,000.00
40	Highway		2016	FORD	1FTX1E1F3GF421438	F150-7.0G 4WD PU1 TRK	7	12	2028						\$55,000.00	
41	Highway	Greenwood, D.	2016	FORD	1FTX1E1F3GF421340	F150 4WD PU1 WITH PLOW	7	12	2028						\$55,000.00	
42	Highway	Stallamora, J.	2017	FORD	1FTX2B68HEB49617	F250-10,000 GVW 4WD PU1 TRK&PLOW	6	12	2029						\$60,000.00	
43	Highway	Neto, J.	2017	FORD	1FTX2B68HEB49615	F250-10,000 GVW 4WD PU1 TRK&PLOW	6	12	2029						\$60,000.00	
44	Highway		2019	FORD	1FDUF4HY2E144678	F250-10,000 GVW 4WD PU1 TRK&PLOW	4	12	2031							
45	Highway	Bruce, N.	2017	FORD	1FTX2B68HEB49616	F250-10,000 GVW 4WD PU1 TRK & PLOW	6	12	2029						\$60,000.00	
46	Highway		2016	FORD	1FDUF3P61CEB08204	F350-11,000 GVW 4 WD C&C W/UTL BODY & PLOW	7	12	2028						\$75,000.00	
48	Highway		2011	FORD	1FTX1E1F3GF421438	F150-7.0G 4WD PU1 TRK	12	12	2023		\$55,000.00					
401	Highway		2015	FORD	1FTX2B68HEB40950	F250-10,000 GVW 4WD PU1 TRK & PLOW	8	12	2027			\$55,000.00				
403	Highway		2012	FORD	1FTX2B68CEC47084	F250-10,000 GVW 4WD PU1 TRK & PLOW	11	12	2024			\$55,000.00				
404	Highway		2012	FORD	1FTX2B68CEC48792	F250-10,000 GVW 4WD PU1 TRK & PLOW	11	12	2024		\$55,000.00					
405	Highway		2012	FORD	1FTX2B68CEC48791	F250-10,000 GVW 4WD PU1 TRK & PLOW	11	12	2024			\$55,000.00				
406	Highway	DeFlumere, W.	2016	FORD	1FTWZB6XGED29652	F250-11,000 GVW 4WD PU1 TRK QUAD CAB	7	12	2028						\$55,000.00	
408	Highway		2019	FORD	1FDUF5HYK02B2935	F550-15,000 GVW 4 WD C&C W/RACK BODY&PLOW	4	15	2034			\$75,000.00				
409	Highway		2008	FORD	1FDAF57R78EC18855	F550-15,000 GVW 4 WD C&C W/RACK BODY&PLOW	15	15	2023			\$75,000.00				
410	Highway		2022	FORD		F550-19,500 GVW 4WD C&C W/DUMP BODY&PLOW	1	15	2037							
411	Highway		2015	FORD	1FDUFSHT3FEA88896	F550-19,500 GVW 4WD C&C W/DUMP BODY&PLOW	8	12	2027				\$75,000.00			
412	Highway		2012	FORD	1FDUFSHT8CEA26618	F550-15,000 GVW 4WD C&C W/DUMP BODY&PLOW	11	12	2024			\$75,000.00				
413	Highway		2017	FORD	1FDUF5HY0HEB70859	F550-15,000 GVW 4WD C&C W/DUMP BODY&PLOW	6	12	2029							\$85,000.00
415	Highway		2012	FORD	1FDUFSHT3CEA26619	F550-15,000 GVW 4WD C&C W/DUMP BODY&PLOW	11	12	2024			\$75,000.00				
416	Highway	Schloski, Z.	2012	FORD	1FDUFSHT3CEC47091	F550-15,000 GVW 4WD C&C W/DUMP BODY&PLOW	11	12	2024				\$78,000.00			
417	Highway		2022	FORD		F350-11,000 GVW 4 WD C&C W/UTL BODY	1	15	2037							
418	Highway	Fabrizio, F.	2012	FORD	1FDUF3P61CEC47096	F350-11,000 GVW 4 WD C&C W/UTL BODY & PLOW	11	12	2024			\$75,000.00				
419																
420	Snow & Ice		2008	MACK	1M2AX04078M003272	GU713-72,000 GVW C&C W/ SANDER&PLOW	15	20	2028						\$250,000.00	
420A	Snow & Ice		2006	TARCO		6 CY MATERIAL SPREADER	17	20	2026							
421	Snow & Ice		2016	MACK	1M2AX02CRGM022376	GU713-40,000 GVW C&C W/ DUMP BODY&PLOW	7	20	2036							
421A	Snow & Ice		2015	TARCO		6 CY MATERIAL SPREADER	8	20	2035							
422	Snow & Ice		2008	MACK	1M2AX02C88M001081	GU712-40,000 GVW C&C W/ DUMP BODY&PLOW	15	20	2028							
422A	Snow & Ice		2015	TARCO		6 CY MATERIAL SPREADER	8	20	2035							
423	Snow & Ice		2011	OSHKOSH	10TBRAF30B5133446	MPT-40,000 GVW C&C W/DUMP-SAND BODY&PLOW	12	20	2031							
424	Snow & Ice		2011	OSHKOSH	10TBRAF30B5131180	MPT-40,000 GVW C&C W/DUMP-SAND BODY&PLOW	12	20	2031							
425	Snow & Ice		2008	MACK	1M2AX02C88M001080	GU713-40,000 GVW C&C W/ DUMP BODY&PLOW	15	20	2028							
425A	Snow & Ice		2008	TARCO		6 CY MATERIAL SPREADER	15	20	2028							
426	Snow & Ice		2009	MACK	1M2AX02C48M001161	GU712-40,000 GVW C&C W/ DUMP BODY&PLOW	14	20	2029						\$235,000.00	
426A	Snow & Ice		2015	HIGHWAY		6 CY MATERIAL SPREADER	8	20	2035							
427	Snow & Ice		2008	MACK	1M2AX02C88M001082	GU712-40,000 GVW C&C W/ DUMP BODY&PLOW	15	20	2028							
427A	Snow & Ice		2008	TARCO		6 CY MATERIAL SPREADER	15	20	2028							
428	Snow & Ice		1997	VOLVO	4VHJAKFE1VN859417	W642-35,000 GVW C&C W/SANDER&PLOW	26	20	2017							
428A	Snow & Ice		2004	HIGHLANDER		6 CY MATERIAL SPREADER	19	20	2024							
429	Snow & Ice		2001	VOLVO	4VSSCBJF31N310312	ACL-65,000 GVW C&C W/SANDER&PLOW	22	20	2021			\$250,000.00				
430	Snow & Ice		2001	STERLING	2FZAABWSA1A22890	LB500-35,000 GVW C&C W/SANDER&PLOW	22	20	2021			\$250,000.00				
430A	Snow & Ice		1999	HIGHWAY		6 CY MATERIAL SPREADER	29	20	2015							
431	Snow & Ice		2008	MACK	1M2AX04C88M003330	GU713-72,000 GVW C&C W/SANDER&PLOW	15	20	2028						\$250,000.00	
432	Snow & Ice		2009	MACK	1M2AX04C88M006487	GU713-72,000 GVW C&C W/SANDER&PLOW	14	20	2029							

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Public Works - Fleet Replacement Program

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UNIT #	Division Assignment	IN SERVICE	YEAR	CURRENT	VIN	DESCRIPTION	AGE	REPLACE	2023	2024	2025	2026	2027	2028	2029
							2023	YES	2023	2024	2025	2026	2027	2028	2029
433	Snow & Ice		2005	MACK	1M2AG1C05M024681	GU713-72.000 GVV C&C W/SANDER&PLOW	18	20	2025				\$250,000.00		
434	Snow & Ice		2010	MACK	1M2AXM0C1AM008649	GU713-72.000 GVV C&C W/SANDER&PLOW	13	20	2030						
435	Snow & Ice		2008	MACK	1M2AG1C05M010654	GU713-72.000 GVV C&C W/SANDER&PLOW	18	20	2024			\$250,000.00			
436	Snow & Ice		2004	STERLING	2FZH4ZY24M85289	L9500-70.000 GVV C&C W/SANDER&PLOW	19	20	2024			\$250,000.00			
437	Snow & Ice		2019	MACK	1M2GR3GC5KM011220	GU713-72.000 GVV C&C W/ DUMP BODY&PLOW	4	20	2039						
437A	Snow & Ice		1999	FARRANT		10 CY MATERIAL SPREADER	24	20	2019						
438	Snow & Ice		2020	MACK		GU713-70.000 GVV C&C W/ DUMP BODY&PLOW	3	15	2035						
439	Snow & Ice		2009	MACK		GU713-72.000 GVV C&C W/SANDER&PLOW	14	20	2029						\$250,000.00
440	Highway / Lq. Specialty		2008	MACK		GU713-35.000 GVV C&C W/AERIAL LIFT	15	15	2023						
441	Highway / Lq. Specialty		2017	MACK		GU713-70.000 GVV C&C	6	15	2032						
441A	Highway / Lq. Specialty		1996	PRENTICE		HYDRAULIC LOG LOADER	27	20	2016						
442	Highway / Lq. Specialty		2004	STERLING		L8500-35.000 GVV C&C W/ DUMP BODY	19	15	2019						
443	Highway / Lq. Specialty		2015	MACY		72.000 GVV C&C	8	20	2035						
443A	Highway / Lq. Specialty		2015	ROTOBEC		HYDRAULIC LOG LOADER	8	20	2035						
444	Highway / Lq. Specialty		2006	MACK		GU712-40.000 GVV C&C	15	18	2024						
444A	Highway / Lq. Specialty		2018	STETCO		CATCH BASIN									
445	Highway / Lq. Specialty	Edison	2004	MACK		CH815-65.000 GVV TANDEM AXLE TRACTOR	19	20	2024						
449	Highway / Lq. Specialty		2012	MACK		VACTOR 2200	11	15	2027						
446	Highway / Sweeper		2020	BUCHER		FOUR WHEEL SWEEPER	3	6	2025			\$280,000.00			
447	Highway / Sweeper		2020	ELGIN		PELICAN-THREE WHEEL SWEEPER	6	6	2025				\$280,000.00		
457	Highway / Sweeper / DHS		2017	ELGIN		PELICAN-THREE WHEEL SWEEPER	6	6	2023						
450	Highway / Sweeper / Edison		2016	GAT		M814-WHEELED EXCAVATOR	7	15	2031						
450A	Highway / Specialty Equip					Mini excavator (replacement for 450)				\$90,000.00					
451	Highway / Lq. Specialty		2012	VOLVO		L120-4.5 CY FRONT END LOADER & PLOW	11	15	2027						
452	Highway / Lq. Specialty		2013	VOLVO		L90-3.5 CY FRONT END LOADER & PLOW	10	15	2028						
453	Highway / Lq. Specialty		2012	BOBCAT		S770-SKID STEER W/ATTACHMENTS&PLOW	11	15	2027						
454	Highway / Lq. Specialty		2008	JOHN DEERE		L90-3.5 CY FRONT END LOADER & PLOW	15	15	2023			\$300,000.00			
456	Highway / Lq. Specialty		2003	BOBCAT		S770-SKID STEER LOADER W/PLOW	20	15	2018			\$130,000.00			
460	S & I Sidewalk		2010	CAMELEON		SIDEWALK TRACTOR - TRACKED	13	15	2025				\$205,000.00		
461	S & I Sidewalk		2016	VENTRAC		SIDEWALK TRACTOR - WHEELED	7	15	2031						
462	S & I Sidewalk		2019	TRACKLESS		SIDEWALK TRACTOR - TRACKLESS	4	15	2034						
463	S & I Sidewalk		2013	MUL THROC		MUL TILLIP TRACTOR - W/ATTACHMENTS	10	15	2028						\$180,000.00
464	S & I Sidewalk		2013	CAMELEON		SIDEWALK TRACTOR - TRACKED	10	15	2028						\$180,000.00
465	S & I Sidewalk / Edison / DHS		1996	TRACKLESS		SIDEWALK TRACTOR - WHEELED	27	15	2011						
466	S & I Sidewalk		2010	BOMBARDIER		SIDEWALK TRACTOR - TRACKED	13	15	2025						
467	S & I Sidewalk		2006	HOLDER		SIDEWALK TRACTOR - WHEELED	17	15	2021			\$205,000.00			\$205,000.00
468	S & I Sidewalk		2018	CAMELEON		SIDEWALK TRACTOR - TRACKED	5	15	2033						
469	S & I Sidewalk		2008	BOMBARDIER		SIDEWALK TRACTOR - TRACKED	15	15	2023			\$205,000.00			
470	Highway / Specialty Equip		2019	RUBOTA		M85 TRACTOR W/FLAIL MOWER	4	15	2034						
471	Highway / Specialty Equip		2013	WACKER		RD16-ROLLER	10	20	2033						
476	Highway / Specialty Equip		2018	ASV		RT30 TRACKED-SKID STEER	5	15	2033						
477	Highway / Specialty Equip		2017	ASV		RT30 TRACKED-SKID STEER	13	15	2032						
478	Highway / Specialty Equip		2011	DOOSAN		FORKLIFT TRUCK	12	20	2031						
479	Highway / Specialty Equip		2018	LEEBDY		ASPHALT PAVER	7	15	2031						
480	Highway / Specialty Equip		2001	WORBARK		BRUSH CHIPPER	22	15	2016						
481	Highway / Specialty Equip		2011	VEERMEER		BRUSH CHIPPER	12	15	2029						
482	Highway / Specialty Equip		2005	LEEBDY		ASPHALT PAVER	18	15	2023						
483	Highway / Specialty Equip		1994	INGERSOLL		PORTABLE AIR COMPRESSOR	29	20	2014						
486	Highway / Specialty Equip		1994	INGERSOLL		DD24 ROLLER	29	20	2014			\$30,000.00			
496	Highway / Specialty Equip		1989	INGERSOLL		PORTABLE AIR COMPRESSOR	34	20	2009						
497	Highway / Specialty Equip		1998	OSHKOSH		4 WHEEL SNOWBLOWER	25	35	2033						
499	Highway / Specialty Equip		1991	OSHKOSH		4 WHEEL SNOWBLOWER	32	35	2026						
T443	Highway / Specialty Equip		2021	MAC		80,000 GVV 38FT TRAILER DUMP	2	20	2041						
T444	Highway / Specialty Equip		2006	SENSON		80,000 GVV 26' DUMP TRAILER	17	20	2026						
11	Lighting & Signals	Keefe, P	2013	FORD	1FM5H8AR6DGB28649	EXP AWD UTILITY VEHICLE	10	15	2028						\$55,000.00
20	Lighting & Signals	Stipale, P	2019	FORD	1FT7X2B8KFEF24863	F350-10,000GVV 4WD PU1 TRK&PLOW	4	15	2034						
21	Lighting & Signals		2016	FORD	1FD0F3F64CEA28607	11,000-4WD UTILITY VEHICLE W/PLOW	7	15	2031						
22	Lighting & Signals		2015	FORD	1FD7X2B8FER07151	11,000-4WD UTILITY VEHICLE	8	15	2030						
230	Lighting & Signals		1995	FHC	1HT1SC4BNZM6H0974	45 AERIAL LIFT W/SERVICE BODY	28	15	2010			\$320,000.00			
232	Lighting & Signals		2015	FREIGHTLINER	1FVACXD75FHCC4771	35 AERIAL LIFT W/SERVICE BODY	8	15	2030						
810	Highway / DHS / Edison	Cox, J	2009	FORD		FORD TAURUS									
5	Sanitation		2016	FORD	1FM5K8D80GGB13183	EXPLORER AWD-UTILITY VEHICLE	7	15	2031						
50	Sanitation		2016	FORD		F150-7.700 GVV 4WD PU1 TRK	7	10	2028			\$55,000.00			
51	Sanitation		2015	FORD		F250-8.800 GVV 4WD PU1 TRK&PLOW	8	10	2025			\$55,000.00			
52	Sanitation		2015	FORD	1FT7X2B63FEB40946	F250-8.800 GVV 4WD PU1 TRK&PLOW	8	10	2025			\$55,000.00			

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Public Works - Fleet Replacement Program

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UNIT #	Division Assignment	IN SERVICE	YEAR	CURRENT	VIN	DESCRIPTION	AGE 2023	LIFE	REPLACE	2023	2024	2025	2026	2027	2028	2029
501	Sanitation		2012	FORD	1FTFX1E98CF41802	F150-7.700 GVV AWD PUJ TRK	11	10	2022		\$55,000.00					
502	Sanitation		2012	FORD	1FTFX2B98CEA48790	F250-8.800 GVV4WD PUJ TRK&PLOW	11	10	2022		\$60,000.00					
505	Sanitation		2008	FORD	1FDAP588RE011574	15,000 GVV AWD C&C W/RACK BODY & PLOW	15	15	2023		\$70,000.00					
510	Sanitation		2015	PETERBILT	3BPZL7EX8FF294054	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023	DONE						
510-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
511	Sanitation		2015	PETERBILT	3BPZL7EX2FF294055	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023	DONE						
511-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
512	Sanitation		2015	PETERBILT	3BPZL7EX8FF294060	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023	In progress						
512-1	Sanitation		2016	NEW WAY		33CY SIDE LOAD PACKER	7	8	2024							
513	Sanitation		2016	PETERBILT	3BPZL7EX7GF107300	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	7	8	2024						\$465,000.00	
513-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
514	Sanitation		2015	PETERBILT	3BPZL7EX4FF294056	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023		\$465,000.00					
514-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
515	Sanitation		2015	PETERBILT	3BPZL7EX8FF294057	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023		\$465,000.00					
515-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
516	Sanitation		2015	PETERBILT	3BPZL7EX8FF294058	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023		\$465,000.00					
516-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
517	Sanitation		2015	PETERBILT	3BPZL7EXXFF294059	72,000 GVV C & C W/SIDE LOADER PACKER & PLOW	8	8	2023		\$410,000.00					
517-1	Sanitation		2015	NEW WAY		33CY SIDE LOAD PACKER	8	8	2023							
518	Sanitation		2021	LR MACK	1MZLR1G00MM05038	33yd LABRIE AUTOMIZER ASL	2	8	2029							
519	Sanitation		2022	LR MACK	1MZLR1G07NM005796	33yd LABRIE AUTOMIZER ASL	1	8	2030							
520	Sanitation		2022	LR MACK	1MZLR1G07NM005797	33yd LABRIE AUTOMIZER ASL	1	8	2030							
523	Sanitation		1999	VOLVO	4VHSCLEFX8N519796	86,000 GVV C & C W/ROLL OFF FRAME	24	15	2014		\$225,000.00					
523-1	Sanitation		2008	AMERICAN		30,000 GVV C & C W/ROLL OFF FRAME	13	15	2023							
521	Sanitation		2014	MACK	1M2AXM4C5EM021099	72,000 GVV C & C W/ROLL OFF FRAME	9	15	2029							\$250,000.00
532	Sanitation		2006	MACK	1M2AG11C09M45922	72,000 GVV REAR LOAD PACKER W/PLOW	17	15	2021							
533	Sanitation		2007	MACK	1M2AG11C09M066477	72,000 GVV REAR LOAD PACKER W/PLOW	16	15	2022							
526	Sanitation		2013	JOHN DEERE		0315-SKID STEER	10	20	2033							
521	Sanitation		2012	VOLVO	VE0L80GE00003467	3.5 CY FRONT END LOADER & PLOW	11	15	2027					\$310,000.00		
522	Sanitation		2002	KOMATSU		FORKLIFT TRUCK	21	20	2022						\$70,000.00	
7	Sewer		2014	FORD	1FMSK8D80EGC26728	EXPLORER AWD-UTILITY VEHICLE	9	15	2029							\$60,000.00
70	Sewer		2016	FORD	1FTFX1E98FDD0613	F150-7.700 GVV AWD PICKUP TRK	7	10	2026		\$55,000.00					
71	Sewer		2012	FORD	1FTFX1E98CF41803	F150-7.700 GVV AWD PICKUP TRK	11	10	2022		\$55,000.00					
72	Sewer / DNR		2012	FORD	1FDRF3F6XCE47058	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	11	10	2022		\$75,000.00					
73	Sewer	Barter	2010	FORD	1FDFA5G90AE42621	38' AERIAL LIFT W/SERVICE BODY	13	15	2025		\$225,000.00					
75	Sewer	Bannon, T.	2019	FORD	1FDRF3F68KEA24908	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	4	10	2029							\$75,000.00
76	Sewer	Kuza	2016	FORD	1FDRF3F6XCE47058	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	7	10	2026		\$75,000.00					
77	Sewer	Patuno, J.	2016	FORD	1FDRF3F6XCE47058	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	7	10	2026		\$75,000.00					
702	Sewer / DNR		2012	FORD	1FDRF3F68KEA24908	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	11	10	2022							
703	Sewer		2012	FORD	1FTFX1E98FDD0613	F150-7.700 GVV AWD PICKUP TRK	11	10	2022							
704	Sewer		2008	FORD	1FDSP3Y88ED97500	F350-11,000 GVV AWD C&C UTIL BODY W/PLOW	15	10	2018		\$75,000.00					
706	Sewer		2019	FORD	1FDJF3Y3KDA25943	F650-15,000 GVV 4 WD C&C UTIL BODY & PLOW	3	10	2029							\$85,000.00
720	Sewer		2008	FORD	1FDAP5P46EA28632	F550-17,500 GVV 2WD C&C W/RODDERADUMP	17	20	2026			\$98,000.00				
721	Sewer	Pump Stations	2012	FORD	1FDRF3F6XCE47057	F350-11,000 GVV 4 WD C&C UTIL BODY & PLOW	11	10	2022		\$75,000.00					
722	Sewer	Pump Stations	2012	FORD	1FDRF3F6XCE47055	F350-11,000 GVV 4 WD C&C UTIL BODY & PLOW	11	10	2022		\$75,000.00					
725	Sewer	Meters	2008	FORD	1FDRF3F68KEA2491	F350-11,000 GVV 4 WD C&C UTIL BODY & PLOW	15	10	2018		\$75,000.00					
726	Sewer		2017	FORD	1FDJF3Y3YHE346549	15,000 GVV AWD C & C W/DUMP BODY & PLOW	6	10	2027						\$85,000.00	
727	Sewer		2012	FORD	1FDJF3Y3YHE346549	15,000 GVV 4 WD C&C W/RACK BODY & PLOW	11	10	2022		\$85,000.00					
728	Sewer / L/a. Specialty	Pump Stations	2012	MACK	1M2AX02CRDM01754	Awaiting delivery	11	15	2027			\$220,000.00				
732A	Sewer / L/a. Specialty		2012	TARCO		6 CY MATERIAL SPREADER	11	15	2027							
733	Sewer / L/a. Specialty		2017	MACK	1M2AX04C0HM036226	72,000 GVV C & C W/ DUMP BODY & PLOW	6	15	2032							
733A	Sewer / L/a. Specialty		2017	TARRANT		10CY MATERIAL SPREADER	21	20	2022							
734	Sewer / L/a. Specialty		2005	MACK		72,000 GVV C-C W/DUMP BODY	15	7								
738	Sewer / L/a. Specialty		2015	MACK	1M2AX04C1GM031874	72,000 C & C W/ACTOR	8	10	2026		\$550,000.00					
740	Sewer / L/a. Specialty		2015	MACK	1M2AX13G0AM032920	72,000 GVV C & C W/FLSHR	8	12	2027							
741	Sewer / L/a. Specialty		2019	MACK	1M2GR4GCS9M013552	72,000 C & C W/ACTOR	4	10	2029							\$550,000.00
742	Sewer / L/a. Specialty		2017	FREIGHTLINER	4UZZAARD78HCHW2245	18,000 GVV C & C W/ CLOSED CAMERA BODY	6	15	2032							
743	Sewer / L/a. Specialty		2010	FREIGHTLINER	4UZZACT013ACAR2912	PIPELINE INSPECTION UNIT	13	15	2026							
744	Sewer / L/a. Specialty		2017	MACK	1M2AX34C9HM010774	35,000 GVV C & C W/CONSTRUCTION BODY	6	10	2027					insert quote here	\$275,000.00	
750	Sewer/L/a specialty		2022	JOHN DEERE		410L Backhoe	1	12	2034							
752	Sewer/L/a specialty	P&R	2010	JOHN DEERE		410 Backhoe	13	12	2022							



## VEHICLE REPLACEMENTS 2025

### WATER ENTERPRISE FUND

1. #61 2011 Ford F250 4wd pickup with plow (upgrade from F150) High hours, corroded. Replacement cost \$60,000. Old unit to be auctioned.
2. #653 2005 Cat large specialty 18-ton excavator. Used for deep trench pipe replacement and repairs. Aging machine will need costly undercarriage and tracks rebuild. Reliability is an issue as machine ages. Replacement cost \$265,000. Old unit to be auctioned.
3. #623 2015 Ford F350 4wd utility with plow. High hours, increasing corrosion. Used daily for service mark outs and water related issues. Replacement cost \$75,000. Old unit to be auctioned.
4. #624 2015 Ford F350 4wd utility with plow. High hours, tired engine, corroded. Replacement cost \$75,000. Old unit to be auctioned.
5. 1993 Gorman Rupp water pump. Need potable water pump for bypass construction and emergency drinking water pumping. Cost \$110,000. Old unit auctioned.
6. #625 2015 Ford F550 4wd small dump with plow. High hours, corroded. Replacement cost \$75,000. Old unit to be auctioned.
7. #622 2015 Ford 4wd F350 utility with plow. Body chassis corrosion, high hours. Replacement cost \$75,000. Old unit to be auctioned.
8. #688 2004 magnum light tower. Old patched up unit. Reliability is an issue. (upgrade to LED style) Replacement cost \$19,000. Old unit to auction.