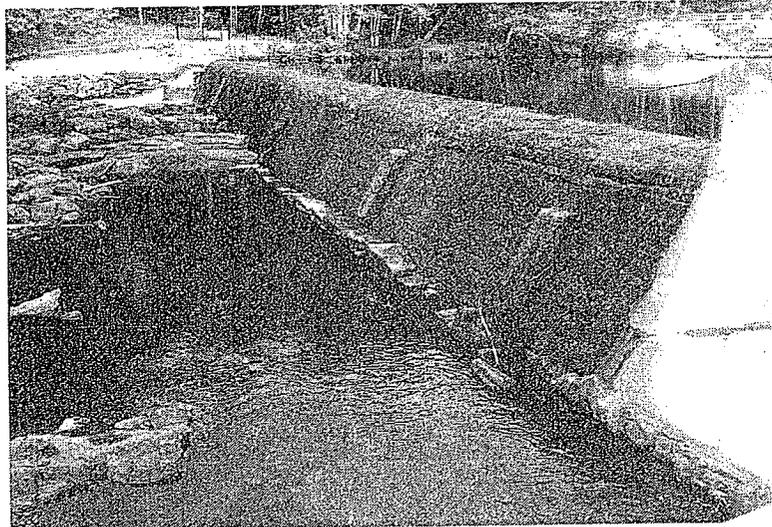


# DEPARTMENT HEAD PROPOSED 2016-2025 CAPITAL IMPROVEMENTS PROGRAM

Description	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
<b>Water Fund</b>										
Wiswall Dam Spillway		490,000								
Madbury Road Water Line Replacement					700,000	975,000				
Backhoe Replacement (Cost split w/Oper. & WW)							26,575			
One Ton Utility Truck Replacement							39,775			
<b>TOTAL WATER FUND</b>	\$0	\$490,000	\$0	\$0	\$700,000	\$975,000	\$66,350	\$0	\$0	\$0

**CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT YEAR</b>	2017	<b>PROJECT COST</b>	\$490,000
<b>DESCRIPTION</b>	<i>Wiswall Dam Spillway</i>	<b>DEPARTMENT</b>	<i>Public Works - Water</i>
<b>IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)</b>			
NHDES Mandated			
<b>DESCRIPTION (TO INCLUDE JUSTIFICATION)</b>			
<p>The Wiswall Dam was constructed in 1912 and although the abutments have been rehabilitated, including complete replacement of the left abutment in 2011, the spillway has not had any attention in all these years. Part of the 2011 Wiswall Dam Repair and Fishladder Project was to include repair of the dam's spillway and installation of rock anchors in the dam's spillway to improve the dam's stability and reduce the risk of failure. During the 2011 construction it was determined rock anchor installation could not be performed as designed due to the presence of large boulders cast into the spillway's concrete. A geotechnical investigation conducted in July 2012, which included the extraction of two core samples into the spillway confirmed the presence of the boulders and provided concrete strength values needed for the design of the stability solution. The 2014 CIP included \$70,000 for preliminary design and the 2015 CIP included \$90,000 for final design and permitting, with construction expected to take place in 2017.</p> <p align="center">**\$70,000 (bond) was approved in 2014 and \$90,000 (bond) approved in 2015 towards this project.**</p>			
<b>ESTIMATED COSTS:</b>	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	-
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	490,000
	CONTINGENCY	\$	-
	<b>TOTAL PROJECT COST</b>	\$	<b>490,000</b>
<b>FINANCING</b>	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	490,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	<b>TOTAL FINANCING COSTS</b>	\$	<b>490,000</b>
<b>IF BONDED:</b>	NUMBER OF YEARS		10
	TOTAL PRINCIPAL	\$	490,000
	TOTAL INTEREST	\$	80,850
	<b>TOTAL ESTIMATED COST</b>	\$	<b>570,850</b>



**CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT YEAR</b>	2020	<b>PROJECT COST</b>	\$700,000
<b>DESCRIPTION</b>	<i>Madbury Road Water Line (Garrison - Edgewood)</i>	<b>DEPARTMENT</b>	<i>Public Works - Water</i>
<b>IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)</b>			
Department Initiative			
<b>DESCRIPTION (TO INCLUDE JUSTIFICATION)</b>			
<p>The Madbury Road water line from Garrison Road to Edgewood Road (approx. 2300 ft) is a combination of 6" and 8" old pit cast iron pipe. The Town has experienced 3 water main ruptures in the past 10 years along this stretch of pipe. This project entails replacing the old, undersized pipe with new 12" ductile iron pipe which has a life expectancy of 80-100 years.</p>			
<b>ESTIMATED COSTS:</b>	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	160,000
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	540,000
	CONTINGENCY	\$	-
	<b>TOTAL PROJECT COST</b>	\$	<b>700,000</b>
<b>FINANCING</b>	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	700,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	<b>TOTAL FINANCING COSTS</b>	\$	<b>700,000</b>
<b>IF BONDED:</b>	NUMBER OF YEARS		20
	TOTAL PRINCIPAL	\$	700,000
	TOTAL INTEREST	\$	220,500
	<b>TOTAL ESTIMATED COST</b>	\$	<b>920,500</b>



**CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT YEAR</b>	2021	<b>PROJECT COST</b>	\$975,000
<b>DESCRIPTION</b>	<i>Madbury Road Water Line (Edgewood - Rte 4)</i>	<b>DEPARTMENT</b>	<i>Public Works - Water</i>
<b>IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.)</b>			
Department Initiative			
<b>DESCRIPTION (TO INCLUDE JUSTIFICATION)</b>			
<p>The Madbury Road water line from Edgewood Road to Route 4 (approx. 3300 ft) is a combination of 6" old pit cast iron pipe. The Town has experienced 4 water main ruptures in the past 10 years along this stretch of pipe. This project entails replacing the old, undersized pipe with new 12" ductile iron pipe which has a life expectancy of 80-100 years.</p>			
<b>ESTIMATED COSTS:</b>	PRELIMINARY STUDY, DESIGN AND ENGINEERING	\$	-
	FINAL DESIGN AND ENGINEERING	\$	225,000
	CONSTRUCTION ENGINEERING OVERSIGHT	\$	-
	CONSTRUCTION COSTS	\$	750,000
	CONTINGENCY	\$	-
	<b>TOTAL PROJECT COST</b>	\$	<b>975,000</b>
<b>FINANCING</b>	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	975,000
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	<b>TOTAL FINANCING COSTS</b>	\$	<b>975,000</b>
<b>IF BONDED:</b>	NUMBER OF YEARS		20
	TOTAL PRINCIPAL	\$	975,000
	TOTAL INTEREST	\$	307,125
	<b>TOTAL ESTIMATED COST</b>	\$	<b>1,282,125</b>



**CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT YEAR</b>	2022	<b>PROJECT COST</b>	\$26,575
<b>DESCRIPTION</b>	Backhoe Replacement	<b>DEPARTMENT</b>	Public Works- Operations, Water, WW

**DESCRIPTION (TO INCLUDE JUSTIFICATION):**

Replace the 2006 JCB 4 Wheel Drive Backhoe. This piece of equipment is scheduled for replacement in 2022. The 2006 JCB was on a 12 year replacement schedule, however with the purchase of the rubber tired excavator in 2013, we were able to push this out further due to the excavator picking up a good percentage of the jobs. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$53,150), 25% Water (\$26,575), 25% Wastewater (\$26,575 of which is 2/3 funded by UNH) will fund this purchase.

<b>ESTIMATED COST</b>	PURCHASE PRICE	\$	26,575.00	Water Fund Portion Only
	ACCESSORIES*	\$	-	
	LESS TRADE-IN**	\$	-	
	<b>NET PURCHASE PRICE</b>	\$	26,575.00	

\*Accessories include lighting, radios, striping, misc. equipment.

<b>FINANCING</b>	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	26,575.00
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	<b>TOTAL FINANCING COSTS</b>	\$	26,575.00

<b>IF BONDED:</b>	NUMBER OF YEARS	7
	TOTAL PRINCIPAL	\$ 26,575.00
	TOTAL INTEREST (EST'D)	\$ 3,189.00
	<b>TOTAL PROJECT COST</b>	\$ 29,764.00



**VEHICLE(S) TO BE REPLACED (info as of July 2015)**

YEAR/MAKE/MODEL            2006

CONDITION                    Good

CURRENT MILEAGE/HOURS 5,824 hours

MAJOR REPAIRS DONE

Will this vehicle be traded-in or used for other purpose?  
If other purpose, please specify:

Trade In

**CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT YEAR</b>	2022	<b>VEHICLE COST</b>	\$39,775
<b>DESCRIPTION</b>	1-Ton Utility Truck Replacement	<b>DEPARTMENT</b>	Public Works - Water
<b>DESCRIPTION (TO INCLUDE JUSTIFICATION):</b>			
<p>Replace the Water Division's 2012 Ford 1-ton utility truck. The current vehicle is a 2012 and on a 10 -12 year replacement schedule. Current unit is the only service vehicle in the Water Division and will have approximately 145,000 miles in 2022. This vehicle is equipped with numerous tools and equipment, such as a generator and a 2-ton crane. According to the New England Water Works Association equipment replacement survey 2022 is the optimum time to replace this piece of equipment. We anticipate a \$4,500 trade in.</p>			
<b>ESTIMATED COST</b>			
	PURCHASE PRICE	\$	43,275
	ACCESSORIES*	\$	1,000
	LESS TRADE-IN**	\$	(4,500)
	<b>NET PURCHASE PRICE</b>	\$	39,775
	*Accessories include lighting, radios, striping, misc. equipment.		
<b>FINANCING</b>			
	OPERATING BUDGET	\$	-
	UNH - CASH	\$	-
	BOND - TOWN PORTION	\$	39,775
	UNH PORTION	\$	-
	FEDERAL/STATE GRANT	\$	-
	CAPITAL RESERVE ACCOUNT	\$	-
	<b>TOTAL FINANCING COSTS</b>	\$	39,775
<b>IF BONDED:</b>			
	NUMBER OF YEARS	\$	7
	TOTAL PRINCIPAL	\$	39,775
	TOTAL INTEREST (EST'D)	\$	4,773
	<b>TOTAL PROJECT COST</b>	\$	44,548
		<p align="center"><b>VEHICLE TO BE REPLACED (info as of July 2015)</b></p> <p>YEAR/MAKE/MODEL: 2012 Ford Utility Truck</p> <p>CONDITION: Fair</p> <p>CURRENT MILEAGE/HOURS: 2,580 hours, 21,996 miles</p> <p>MAJOR REPAIRS DONE: None to date</p> <p>Will this vehicle be traded-in: YES</p>	