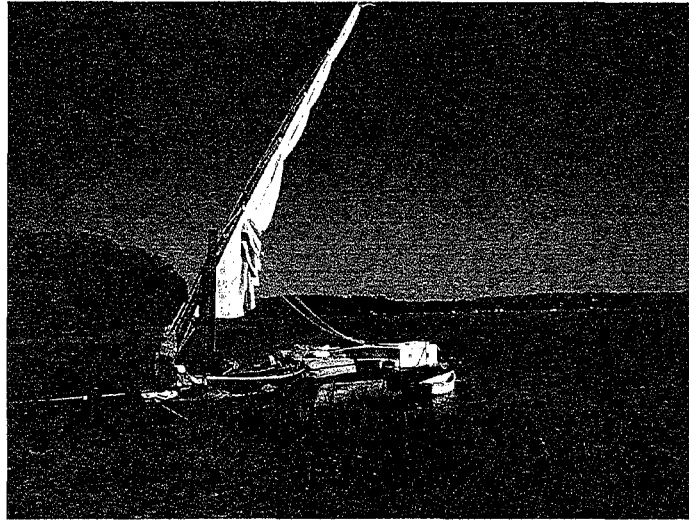


TOWN OF DURHAM



*The Captain Adams gundalow docked at Wagon Hill Farm
Photo Courtesy of The Gundalow Company*

APPROVED

2012 - 2021

CAPITAL IMPROVEMENTS PROGRAM

December 12, 2011

TABLE OF CONTENTS

2012-2021 Summary	1	Upgrade to Web Based Software	30
CIP Summary 2012	6	Radio Upgrades	31
CIP Summary 2013	7	Water Rescue Vehicles Purchase	32
CIP Summary 2014	8	Engine 2 Replacement	33
CIP Summary 2015	9	Hurst Tool Replacement	34
CIP Summary 2016	10	Vehicle Air Bag Lifts Purchase	35
CIP Summary 2017	11	Engine 1 Refurbishment	36
CIP Summary 2018	12	Deputy Chief Vehicle Replacement	37
CIP Summary 2019	13	Confined Space Trailer Updating	38
CIP Summary 2020	14	Medic 1 Replacement	39
CIP Summary 2021	15	Prevention Vehicle Replacement	40
General Fund Bond Payment Schedule	16	Forestry Unit Replacement	41
Library Project	17	Fire Chief Vehicle Replacement	42
Library Facility	18	Defibrillator Replacement	43
Planning Department Projects	19	Public Works Dept – Operations Projects	44
Wagon Hill Parking	20	Road Resurfacing	45
Downtown Sidewalks	21	2012-2028 Road Program	46
Technology Drive Infrastructure	22	Roadway Sweeper	47
Police Department Projects	23	Dump Trucks Replacement	48
Vehicle Replacement	24	Pettee Brook Lane Corridor Phase II	49
Building Needs Assessment	25	Sidewalk Snow Tractor	50
Fire Department Projects	26	Downtown Parking Lot Paving	51
Turn out Gear	27	Edgewood Road Sidewalk	52
New Fire Station	28	Main Street Railroad Bridge	53
Assistant Chief Vehicle Replacement	29	Bennett Road Culvert	54
		Longmarsh Road Culvert	55
		Crommets Creek Bridge	56
		Culvert & Outfall Improvements	57
		Stormwater Management System	58
		Coe Drive Sidewalk	59
		½ Ton Pickup Truck Replacement	60

Public Works Dept – Bldgs & Grds Projects	61
Police Station Handicap Entrance	62
¾ Ton Pickup Replacement	63
Old Landing Park Improvements	64
½ Ton Pickup Replacement	65
1-Ton Dump Truck Replacement	66
Public Works Dept – Sanitation Projects	67
Refuse Collection Vehicle	68
Recycling Collection Vehicle	69
Water Fund Bond Payment Schedule	70
Water Fund Projects	71
1-Ton Utility Truck Replacement	72
Water Meter Upgrade	73
Water Tank Painting	74
Spruce Hole Well Development	75

Wastewater Fund Bond Payment Schedule	76
Wastewater Fund Projects	77
WWTP Phase III	78
College Brook Interceptor	79
Sludge Dewatering Equipment	80
Commercial Lawnmower	81
Major Components	82
Collection System Upgrades	83
Diesel Generator Replacement	84
18" Force Main Replacement	85
¾ Ton Pickup Replacement	86
TIF District Projects	87
Phase III – Infrastructure	88

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Library Trustees																				
New Library	1	3,450,000	1	350,000																
LIBRARY TOTALS		3,450,000		350,000		-		-		-		-		-		-		-		-
Planning																				
Wagon Hill Parking					1	26,500														
Downtown Sidewalks											1	630,000								
Technology Drive Infrastructure Improvement																1	2,145,000			
PLANNING TOTALS		-		-		26,500		-		-		630,000		-		-		2,145,000		-
Police Department																				
Vehicle Replacement (Purchase 2/Yr)	1	31,000	1	62,000	1	62,000	1	62,000	1	62,000	1	62,000	1	62,000	1	64,000	1	64,000	1	65,000
Building Needs Assessment											2	15,000								
POLICE TOTALS		31,000		62,000		62,000		62,000		62,000		77,000		62,000		64,000		64,000		65,000
Fire Department																				
Turnout Gear Replacement	1	90,000																		
New Fire Station			1	857,000					1	7,500,000										
Asst. Chief Vehicle Replacement			2	50,000														2	47,000	
Upgrade to Web Based Software - FH			3	25,000																
Radio Upgrades			4	40,000					3	15,000							1	250,000		
Water Rescue Vehicles			5	28,000																
Engine 2 Replacement					1	600,000														
Hurst Tool Replacement					2	50,000														
Vehicle Air Bag Lifts Replacements					3	10,000														

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Engine 1 Refurbishment							1	200,000												
Deputy Chief Vehicle Replacement									2	45,000										
Confined Space Trailer Replacement									4	50,000										
Medic 1 Replacement											1	100,000								
Prevention Vehicle Replacement											2	35,000								
Forestry Unit Replacement													1	70,000						
Fire Chief Vehicle Replacement													2	50,000						
Defibrillator Replacement																2	40,000			
Tanker 1 Replacement																		1	150,000	
FIRE TOTALS		90,000		1,000,000		660,000		200,000		7,610,000		135,000		120,000		-		290,000		197,000

Public Works - Operations Division

Road Resurfacing	1	455,487	1	458,153	1	375,516	1	415,453	1	425,647	1	365,017	1	425,402	1	488,457	1	326,672	1	427,034
Roadway Sweeper Replacement	2	175,000																		
Dump Truck Replacement	3	165,000	2	168,000	2	171,000	2	174,000	2	177,000					2	186,000				
Petee Brook Lane Corridor - Phase II	4	75,000																		
Sidewalk Snow Tractor Replacement	5	55,960																		
Downtown Parking Lot Paving	6	34,550																		
Edgewood Road Sidewalk Replacement	7	28,890																		
Main Street Railroad Bridge Rehab	8	19,500																		
Bennett Road Culvert	9	800,000																		
Longmarsh Road Culvert Engineering/Replacement	10	51,000	8	765,000																
Crommets Creek Bridge Repair	11	49,000	3	359,000																
Culvert & Outfalls Improvements Program	12	118,000	6	92,220	3	139,060	3	149,515	3	92,696	2	95,877	2	92,355	3	89,114	2	97,207		
Stormwater Management System Improvements	13	58,934	7	60,000	4	57,400	4	56,343	4	59,656	3	55,223	3	58,120	4	57,060	3	10,000		
Coe Drive Sidewalk			4	60,800																
One-Half Ton Pickup Truck Replacement			5	18,500																

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
PW - OPERATIONS TOTALS		2,086,321		1,981,673		742,976		795,311		754,999		516,117		575,877		820,631		433,879		427,034
Public Works- Buildings & Grounds Division																				
Police Department Handicap Entrance	1	32,000																		
3/4 Ton Pickup Truck Replacement	2	26,775																		
Old Landing Park Improvements					1	86,474														
One-Half Ton Pickup Truck Replacement							1	13,800												
One Ton Dump Truck Replacement									1	46,000										
PW - BLDGS & GRDS TOTALS		58,775		-		86,474		13,800		46,000		-		-		-		-		-
Public Works - Sanitation Division																				
Refuse Collection Vehicle Replacement					1	225,000														
Recycling Collection Vehicle Replacement							1	104,000												
PW - SANITATION TOTALS		-		-		225,000		104,000		-		-		-		-		-		-
PUBLIC WORKS TOTALS		2,145,096		1,981,673		1,054,450		913,111		800,999		516,117		575,877		820,631		433,879		427,034
TOTAL GENERAL FUND		\$5,716,096		\$3,393,673		\$1,802,950		\$1,175,111		\$8,472,999		\$1,358,117		\$757,877		\$884,631		\$2,932,879		\$689,034
Totals less projects identified below		\$2,266,096		\$2,536,673		\$1,802,950		\$1,175,111		\$972,999		\$1,358,117		\$757,877		\$884,631		\$787,879		\$689,034
		Library		Fire Station						Fire Station								Technology Dr		

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Water Fund																				
One Ton Utility Truck Replacement	1	37,500																		
Water Meter Upgrade	2	417,612																		
Beech Hill & Foss Farm Water Tank Reconditioning			1	750,000																
Spruce Hole Well Development							1	1,415,000												
TOTAL WATER FUND		\$455,112		\$750,000		\$0		\$1,415,000		\$0		\$0		\$0		\$0		\$0		\$0
Totals less projects identified below		\$455,112		\$750,000		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
Spruce Hole																				
Wastewater Fund																				
WWTP Phase III	1	1,500,000			1	10,000,000														
College Brook Interceptor Repair			1	450,000																
Sludge Dewatering Equipment Replacement			2	2,500,000																
Commercial Lawnmower Replacement			3	10,500																
Major Components Replacement			4	60,000	3	60,000														
Collection System Upgrades			5	520,000	4	50,000														
Diesel Generator Replacement					2	125,000														
18" Force Main Replacement					5	2,200,000														
3/4 Ton Pickup Truck Replacement												1	31,900	1	32,900					
TOTAL WASTEWATER FUND		\$1,500,000		\$3,540,500		\$12,435,000		\$0		\$0		\$0		\$31,900		\$32,900		\$0		\$0
Totals less projects identified below		\$1,500,000		\$1,040,500		\$235,000		\$0		\$0		\$0		\$31,900		\$32,900		\$0		\$0
Sludge Equip Phase III Force Main																				
TIF DISTRICT																				
Phase III - Infrastructure Improvements (Trail to Durham Business Park)											1	79,030								
TOTAL TIF DISTRICT		\$0		\$0		\$0		\$0		\$0		\$79,030		\$0		\$0		\$0		\$0

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
TOTAL ALL FUNDS		\$7,671,208		\$7,884,173		\$14,237,950		\$2,590,111		\$8,472,999		\$1,437,147		\$789,777		\$917,531		\$2,932,879		\$689,034

Totals less projects identified below		\$4,221,208		\$4,327,173		\$2,037,950		\$1,175,111		\$972,999		\$1,437,147		\$789,777		\$917,531		\$787,879		\$689,034
		Library		Fire Station		WW Phase III		Spruce Hole		Fire Station								Technology Drive		
				Sludge Equipment		Force Main														

2012 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Library Trustees New Library		2,700,000					750,000	3,450,000
Police Department Vehicle Replacement	31,000							31,000
Fire Department Turnout Gear						90,000		90,000
Public Works Operations Division								
Road Resurfacing	50,000	405,487						455,487
Roadway Sweeper		170,000					5,000	175,000
Dump Trucks 33,400 GVW		158,000					7,000	165,000
Pettee Brook Lane Corridor - Phase II		75,000						75,000
Sidewalk Plow Tractor		55,960						55,960
Downtown Parking Lot Paving							34,550	34,550
Edgewood Road Sidewalk	28,890							28,890
Main Street Railroad Bridge	19,500							19,500
Bennett Road Culvert		160,000			640,000			800,000
Longmarsh Road Culvert Engineering		12,750			38,250			51,000
Crommets Creek Bridge Repair		49,000						49,000
Culvert and Outfall Improvements Program	118,000							118,000
Stormwater Management System Improvements	58,934							58,934
Public Works Buildings and Grounds Division								
Police Station Handicap Entrance Ramp		32,000						32,000
3/4 Ton Pickup Truck Replacement	25,575						1,200	26,775
Total General Fund	331,899	3,818,197	0	0	678,250	90,000	797,750	5,716,096
<u>Water Fund</u>								
1 Ton Utility Truck	33,000						4,500	37,500
Water Meter Upgrades		334,090			83,522			417,612
Total Water Fund	33,000	334,090	0	0	83,522	0	4,500	455,112
<u>Wastewater Fund</u>								
WWTP Phase III		500,000	1,000,000					1,500,000
Total Wastewater Fund	0	500,000	1,000,000	0	0	0	0	1,500,000
Total All Projects	364,899	4,652,287	1,000,000	0	761,772	90,000	802,250	7,671,208

2013 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Library Trustees								
New Library							350,000	350,000
Police Department								
Vehicle Replacement	62,000							62,000
Fire Department								
New Fire Station		428,500	428,500					857,000
Assistant Chief Vehicle Replacement						50,000		50,000
Upgrade to Web Based Software - Fire House						25,000		25,000
Radio Upgrades						40,000		40,000
Water Rescue Vehicles						28,000		28,000
Public Works								
Operations Division								
Road Resurfacing		458,153						458,153
Dump Truck 33,400 GVW		161,000					7,000	168,000
Longmarsh Road Culvert		153,000			612,000			765,000
Crommets Creek Bridge Repair		359,000						359,000
Coe Drive Sidewalk Repair	60,800							60,800
One-Half Ton Pickup Truck Replacement	17,500						1,000	18,500
Culvert & Outfalls Improvement Program	92,220							92,220
Stormwater Management System Improvements	60,000							60,000
Total General Fund	292,520	1,559,653	428,500	0	612,000	143,000	358,000	3,393,673
<u>Water Fund</u>								
Beech Hill & Foss Farm Water Tank Painting		250,000	500,000					750,000
Total Water Fund	0	250,000	500,000	0	0	0	0	750,000
<u>Wastewater Fund</u>								
College Brook Interceptor		150,000	300,000					450,000
Sludge Dewatering Equip.		833,333	1,666,667					2,500,000
Commercial Lawnmower Replacement	3,500			7,000				10,500
Major Components	20,000			40,000				60,000
Collection System Upgrades		520,000						520,000
Total Wastewater Fund	23,500	1,503,333	1,966,667	47,000	0	0	0	3,540,500
Total All Projects	316,020	3,312,986	2,895,167	47,000	612,000	143,000	358,000	7,684,173

2014 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Planning								
Wagon Hill Parking	26,500							26,500
Police Department								
Vehicle Replacement	62,000							62,000
Fire Department								
Engine 2 Replacement		300,000	300,000					600,000
Hurst Tool Replacement						50,000		50,000
Vehicle Air Bag Lifts Replacement						10,000		10,000
Public Works								
Operations Division								
Road Resurfacing	375,516							375,516
Dump Truck 33,400 GVW		164,000					7,000	171,000
Culvert & Outfalls Improvement Program	139,060							139,060
Stormwater Management System Improvements	57,400							57,400
Buildings and Grounds Division								
Old Landing Park Improvements		86,474						86,474
Sanitation Division								
Refuse Collection Vehicle		225,000						225,000
Total General Fund	660,476	775,474	300,000	0	0	60,000	7,000	1,802,950
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
WWTP Phase III		3,333,333	6,666,667					10,000,000
Major Components Replacement	20,000			40,000				60,000
Collection System Upgrades	50,000							50,000
18" Force Main Replacement		733,333	1,466,667					2,200,000
Diesel Generator Replacement		41,666	83,334					125,000
Total Wastewater Fund	70,000	4,108,332	8,216,668	40,000	0	0	0	12,435,000
Total All Projects	730,476	4,883,806	8,516,668	40,000	0	60,000	7,000	14,237,950

2015 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Police Department								
Vehicle Replacement	62,000							62,000
Fire Department								
Engine 1 Refurbishment						200,000		200,000
Public Works								
Operations Division								
Road Resurfacing	415,453							415,453
Dump Truck 33,400 GVW		167,000					7,000	174,000
Culvert & Outfalls Improvement Program	149,515							149,515
Stormwater Management System Improvements	56,343							56,343
Buildings & Grounds Division								
Replace 1/2 Ton Pickup Truck	13,300						500	13,800
Sanitation Division								
Recycling Collection Vehicle		101,000					3,000	104,000
Total General Fund	696,611	268,000	0	0	0	200,000	10,500	1,175,111
<u>Water Fund</u>								
Spruce Hole Well Development		471,662	943,338					1,415,000
Total Water Fund	0	471,662	943,338	0	0	0	0	1,415,000
<u>Wastewater Fund</u>								
Total Wastewater Fund	0	0	0	0	0	0	0	0
Total All Projects	696,611	739,662	943,338	0	0	200,000	10,500	2,590,111

2016 CAPITAL IMPROVEMENTS PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Police Department								
Vehicle Replacement	62,000							62,000
Fire Department								
New Fire Station			3,750,000	3,750,000				7,500,000
Deputy Fire Chief Vehicle Replacement						45,000		45,000
Radio Upgrades						15,000		15,000
Confined Space Trailer Refurbishing						50,000		50,000
Public Works								
Operations Division								
Road Resurfacing	425,647							425,647
Dump Truck Replacement		170,000					7,000	177,000
Culvert & Outfalls Improvement Program	92,696							92,696
Stormwater Management System Improvements	59,656							59,656
Buildings & Grounds Division								
1 Ton Dump Truck		40,000					6,000	46,000
Total General Fund	639,999	210,000	3,750,000	3,750,000	0	110,000	13,000	8,472,999
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
Total Wastewater Fund	0	0	0	0	0	0	0	0
Total All Projects	639,999	210,000	3,750,000	3,750,000	0	110,000	13,000	8,472,999

2017 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Planning								
Downtown Sidewalks	63,000			63,000	504,000			630,000
Police Department								
Vehicle Replacement	62,000							62,000
Building Needs Assessment	15,000							15,000
Fire Department								
Prevention Vehicle Replacement						35,000		35,000
Medic 1 Replacement						100,000		100,000
Public Works								
Operations Division								
Road Resurfacing	365,017							365,017
Culvert & Outfalls Improvement Program	95,877							95,877
Stormwater Management System Improvements	55,223							55,223
Total General Fund	656,117	0	0	63,000	504,000	135,000	0	1,358,117
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
Total Wastewater Fund	0	0	0	0	0	0	0	0
<u>TIF DISTRICT</u>								
Phase III - Infrastructure							79,030	79,030
Total TIF District	0	0	0	0	0	0	79,030	79,030
Total All Projects	656,117	0	0	63,000	504,000	135,000	79,030	1,437,147

2018 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Planning								0
Police Department Vehicle Replacement	62,000							62,000
Fire Department Forestry One Replacement Fire Chief Vehicle Replacement						70,000 50,000		70,000 50,000
Public Works Operations Division Road Resurfacing Culvert & Outfalls Improvement Program Stormwater Management System Improvements	425,402 92,355 58,120							425,402 92,355 58,120
Total General Fund	637,877	0	0	0	0	120,000	0	757,877
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
3/4 Ton Pickup Replacement	9,633			19,267			3,000	31,900
Total Wastewater Fund	9,633	0	0	19,267	0	0	3,000	31,900
<u>Total All Projects</u>	647,510	0	0	19,267	0	120,000	3,000	789,777

2019 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Police Department								
Vehicle Replacement	64,000							64,000
Fire Department								
Public Works								
Operations Division								
Road Resurfacing	488,457							488,457
Dump Truck Replacement		179,000					7,000	186,000
Culvert & Outfalls Improvement Program	89,114							89,114
Stormwater Management System Improvements	57,060							57,060
Total General Fund	698,631	179,000	0	0	0	0	7,000	884,631
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
3/4 Ton Pickup Replacement	9,800			19,600			3,500	32,900
Total Wastewater Fund	9,800	0	0	19,600	0	0	3,500	32,900
<u>Total All Projects</u>	708,431	179,000	0	19,600	0	0	10,500	917,531

2021 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Police Department								
Vehicle Replacement	65,000							65,000
Fire Department								
Tanker 1 Replacement						150,000		150,000
Asst. Chief Vehicle Replacement						47,000		47,000
Public Works								
Operations Division								
Road Resurfacing	427,034							427,034
Culvert & Outfalls Improvement Program	0							0
Stormwater Management System Improvements	0							0
Total General Fund	492,034	0	0	0	0	197,000	0	689,034
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
3/4 Ton Pickup Replacement								0
Total Wastewater Fund	0	0	0	0	0	0	0	0
<u>Total All Projects</u>	492,034	0	0	0	0	197,000	0	689,034

2020 CAPITAL IMPROVEMENT PROGRAM

Description	Operating Budget	Town Bond Amt	UNH Bond Amt	UNH	State & Federal	Capital Reserve	Trade & Other	Total
<u>General Fund</u>								
Planning Technology Drive Infrastructure Improvements		2,145,000						2,145,000
Police Department Vehicle Replacement	64,000							64,000
Fire Department Radio Upgrades						250,000		250,000
Defibrillator Replacement						40,000		40,000
Public Works Operations Division Road Resurfacing	326,672							326,672
Culvert & Outfalls Improvement Program	97,207							97,207
Stormwater Management System Improvements	10,000							10,000
Total General Fund	497,879	2,145,000	0	0	0	290,000	0	2,932,879
<u>Water Fund</u>								
Total Water Fund	0	0	0	0	0	0	0	0
<u>Wastewater Fund</u>								
3/4 Ton Pickup Replacement								0
Total Wastewater Fund	0	0	0	0	0	0	0	0
Total All Projects	497,879	2,145,000	0	0	0	290,000	0	2,932,879

GENERAL FUND PROPOSED BOND SCHEDULE

PROJECT NAME	PROJECT YEAR	LENGT H	AMOUNT TO BE BONDED	INTEREST COSTS	ESTIMATED COST	2012 PRINCIPAL	2012 INTEREST	2013 PRINCIPAL	2013 INTEREST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2018 PRINCIPAL	2018 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST
Municipal Network	2008	10	\$120,000	\$22,508	\$142,508					\$15,000	\$4,748	\$15,000	\$3,885	\$15,000	\$3,330	\$15,000	\$2,775	\$10,000	\$2,220	\$10,000	\$1,850	\$10,000	\$1,480	\$10,000	\$1,110
Wiswall Dam Fish Ladder	2010	10	\$59,263	\$8,215	\$67,478			\$9,263	\$1,775	\$10,000	\$1,400	\$5,000	\$1,120	\$5,000	\$980	\$5,000	\$840	\$5,000	\$700	\$5,000	\$560	\$5,000	\$420	\$5,000	\$280
Road Program	2011	15	\$417,917	\$98,358	\$514,275			\$32,917	\$13,408	\$30,000	\$11,550	\$30,000	\$10,650	\$30,000	\$9,750	\$30,000	\$8,850	\$30,000	\$7,950	\$30,000	\$7,050	\$30,000	\$6,150	\$25,000	\$5,250
Tanker 1 Replacement	2011	10	\$465,000	\$58,358	\$523,358			\$50,000	\$11,438	\$50,000	\$9,545	\$50,000	\$8,395	\$45,000	\$7,245	\$45,000	\$6,210	\$45,000	\$5,175	\$45,000	\$4,140	\$45,000	\$3,105	\$45,000	\$2,070
Morgan Way Intersection	2011	15	\$155,663	\$34,551	\$190,414																				
One Ton Utility/Bucket Truck	2011	7	\$68,400	\$6,512	\$74,912			\$8,400	\$1,682	\$10,000	\$1,380	\$10,000	\$1,150	\$10,000	\$920	\$10,000	\$690	\$10,000	\$460	\$10,000	\$230				
Pettee Brook Lane Corridor	2011/2012	10	\$151,000	\$25,095	\$176,095			\$16,000	\$4,845	\$15,000	\$4,050	\$15,000	\$3,600	\$15,000	\$3,150	\$15,000	\$2,700	\$15,000	\$2,250	\$15,000	\$1,800	\$15,000	\$1,350	\$15,000	\$900
Smith Chapel Repairs	2011	10	\$65,000	\$7,119	\$72,119			\$10,000	\$1,599	\$10,000	\$1,265	\$10,000	\$1,035	\$5,000	\$805	\$5,000	\$690	\$5,000	\$575	\$5,000	\$460	\$5,000	\$345	\$5,000	\$230
Sidewalk Snow Tractor	2011/2012	7	\$125,000	\$14,360	\$139,360			\$20,000	\$4,010	\$20,000	\$3,150	\$20,000	\$2,550	\$20,000	\$1,950	\$15,000	\$1,350	\$15,000	\$900	\$15,000	\$450				
Police Station Renovations	2011/2012	10	\$104,200	\$16,843	\$121,043			\$14,200	\$3,343	\$10,000	\$2,700	\$10,000	\$2,400	\$10,000	\$2,100	\$10,000	\$1,800	\$10,000	\$1,500	\$10,000	\$1,200	\$10,000	\$900	\$10,000	\$600
New Library	2012	30	\$2,700,000	\$2,312,063	\$5,012,063			\$90,000	\$158,813	\$90,000	\$143,550	\$90,000	\$138,600	\$90,000	\$133,650	\$90,000	\$128,700	\$90,000	\$123,750	\$90,000	\$118,800	\$90,000	\$113,850	\$90,000	\$108,900
Road Program	2012	15	\$405,487	\$117,492	\$522,979			\$30,487	\$16,242	\$30,000	\$14,063	\$30,000	\$12,938	\$30,000	\$11,813	\$30,000	\$10,688	\$30,000	\$9,563	\$25,000	\$8,438	\$25,000	\$7,500	\$25,000	\$6,563
Roadway Sweeper	2012	10	\$170,000	\$26,604	\$196,604			\$20,000	\$31,554	\$20,000	\$4,500	\$20,000	\$3,900	\$20,000	\$3,300	\$15,000	\$2,700	\$15,000	\$2,250	\$15,000	\$1,800	\$15,000	\$1,350	\$15,000	\$900
Dump Truck	2012	7	\$158,000	\$18,569	\$176,569			\$23,000	\$5,069	\$25,000	\$4,050	\$25,000	\$3,300	\$25,000	\$2,550	\$20,000	\$1,800	\$20,000	\$1,200	\$20,000	\$600				
Bennett Road Culvert	2011/2012	15	\$168,600	\$44,111	\$212,711			\$13,600	\$6,311	\$15,000	\$5,425	\$15,000	\$4,900	\$15,000	\$4,375	\$10,000	\$3,850	\$10,000	\$3,500	\$10,000	\$3,150	\$10,000	\$2,800	\$10,000	\$2,450
Longmarsh Road Culvert	2012/2013	15	\$165,750	\$43,479	\$209,229			\$15,750	\$6,204	\$15,000	\$5,250	\$15,000	\$4,725	\$10,000	\$4,200	\$10,000	\$3,850	\$10,000	\$3,500	\$10,000	\$2,800	\$10,000	\$2,450	\$10,000	\$2,100
Road Program	2013	15	\$458,153	\$134,061	\$592,214					\$38,153	\$18,374	\$35,000	\$15,750	\$30,000	\$14,438	\$30,000	\$13,313	\$30,000	\$12,188	\$30,000	\$11,063	\$30,000	\$9,938	\$30,000	\$8,813
Fire Station Replacement	2013	30	\$857,000	\$706,283	\$1,563,283					\$32,000	\$50,408	\$30,000	\$45,375	\$30,000	\$43,725	\$30,000	\$42,075	\$30,000	\$20,213	\$30,000	\$38,775	\$30,000	\$37,125	\$30,000	\$35,475
Dump Truck - 33,400 GVWR	2013	7	\$161,000	\$20,221	\$181,221					\$26,000	\$5,596	\$25,000	\$4,388	\$25,000	\$3,575	\$25,000	\$2,763	\$20,000	\$1,950	\$20,000	\$1,300	\$20,000	\$650		
Crommets Creek Bridge	2013/2014	15	\$408,000	\$125,453	\$533,453					\$33,000	\$17,453	\$30,000	\$15,000	\$30,000	\$13,800	\$30,000	\$12,600	\$30,000	\$11,400	\$30,000	\$10,200	\$25,000	\$9,000	\$25,000	\$8,000
Engine 2 Replacement	2014	10	\$600,000	\$116,958	\$716,958							\$60,000	\$22,458	\$60,000	\$18,900	\$60,000	\$16,800	\$60,000	\$14,700	\$60,000	\$12,600	\$60,000	\$10,500	\$60,000	\$8,400
Dump Truck - 33,400 GVWR	2014	7	\$164,000	\$22,589	\$186,589							\$24,000	\$6,139	\$25,000	\$4,900	\$25,000	\$4,025	\$25,000	\$3,150	\$25,000	\$2,275	\$20,000	\$1,400	\$20,000	\$700
Old Landing Park Improvements	2014	10	\$86,474	\$14,787	\$101,261							\$11,474	\$17,537	\$10,000	\$2,625	\$10,000	\$2,275	\$10,000	\$1,925	\$10,000	\$1,575	\$10,000	\$1,225	\$10,000	\$875
Refuse Collection Vehicle	2014	7	\$225,000	\$26,569	\$251,569							\$35,000	\$7,219	\$35,000	\$5,700	\$35,000	\$4,650	\$30,000	\$3,600	\$30,000	\$2,700	\$30,000	\$1,800	\$30,000	\$900
Dump Truck - 33,400 GVWR	2015	7	\$167,000	\$24,322	\$191,322									\$27,000	\$6,697	\$25,000	\$5,250	\$25,000	\$4,313	\$25,000	\$3,375	\$25,000	\$2,438	\$20,000	\$1,500
Recycling Collection Vehicle	2015	7	\$101,000	\$14,738	\$115,738									\$16,000	\$4,051	\$15,000	\$3,188	\$15,000	\$2,625	\$15,000	\$2,063	\$15,000	\$1,500	\$15,000	\$938
Fire Station Replacement	2016	30	\$7,500,000	\$6,714,323	\$14,214,323											\$250,000	\$461,198	\$250,000	\$416,875	\$250,000	\$402,500	\$250,000	\$388,125	\$250,000	\$373,750
Dump Truck - 33,400 GVWR	2016	7	\$170,000	\$25,380	\$195,380											\$25,000	\$6,818	\$25,000	\$5,438	\$25,000	\$4,500	\$25,000	\$3,563	\$25,000	\$2,625
1 Ton Dump Truck	2016	7	\$40,000	\$5,542	\$45,542											\$10,000	\$1,604	\$5,000	\$1,125	\$5,000	\$938	\$5,000	\$750	\$5,000	\$563
Dump Truck - 33,400 GVWR	2019	7	\$179,000	\$27,657	\$206,657																	\$29,000	\$7,657	\$30,000	\$8,000
EXISTING BONDS			\$16,437,107	\$10,803,463	\$27,240,570	\$0	\$0	\$353,617	\$266,293	\$494,153	\$308,457	\$610,474	\$337,012	\$633,000	\$308,528	\$695,000	\$754,050	\$875,000	\$664,993	\$870,000	\$647,190	\$815,000	\$608,713	\$785,000	\$573,890
2002 Bond			\$2,317,265			\$157,027	\$25,012	\$95,966	\$19,124	\$98,966	\$15,245	\$94,832	\$11,367	\$94,835	\$7,455	\$25,802	\$3,424	\$25,802	\$2,304	\$25,606	\$1,152				
2006 Bond	2003-2006	20	\$1,309,216			\$113,698	\$12,219	\$113,698	\$15,211	\$36,649	\$10,718	\$36,649	\$9,278	\$36,649	\$7,833	\$18,758	\$6,367	\$18,758	\$5,617	\$18,758	\$4,866	\$18,758	\$4,116	\$18,758	\$3,366
2006 Bond	Land	20	\$1,620,000			\$81,000	\$55,660	\$81,000	\$45,059	\$81,000	\$41,938	\$81,000	\$38,788	\$81,000	\$35,640	\$81,000	\$32,400	\$81,000	\$29,160	\$81,000	\$25,920	\$81,000	\$22,680	\$81,000	\$19,440
2006 Bond Taxable	2003-2006	7	\$315,364			\$35,000	\$4,025	\$35,000	\$2,013																
2008 Bond	2005-2008	20	\$692,365			\$74,350	\$18,236	\$74,350	\$15,819	\$74,350	\$13,217	\$74,350	\$10,615	\$55,905	\$7,827	\$55,905	\$5,032	\$55,905	\$2,795						
2010 Bond	2008-2010	20	\$1,384,000			\$70,000	\$23,950	\$65,000	\$21,850	\$65,000	\$19,900	\$60,000	\$17,300	\$60,000	\$15,500	\$60,000	\$13,700	\$40,000	\$10,700	\$40,000	\$9,500	\$35,000	\$7,500	\$25,000	\$5,750
2005 Landfill SRF Loan	2002	20 YRS	\$802,756			\$40,138	\$19,244	\$40,138	\$17,764	\$40,138	\$16,284	\$40,138	\$14,803	\$40,138	\$13,323	\$40,138	\$11,842	\$40,138	\$10,362	\$40,138	\$8,882	\$40,138	\$7,401	\$40,138	\$5,921
TOTALS			\$29,573,149			\$571,213	\$158,346	\$859,769	\$403,132	\$888,256	\$425,759	\$997,443	\$439,163	#####	\$396,106	\$1,176,403	\$826,815	\$1,136,403	\$725,931	\$1,075,502	\$697,510	\$1,018,896	\$659,067	\$979,896	\$614,367
						TOTAL 2012	TOTAL 2014	TOTAL 2013	TOTAL 2015	TOTAL 2016	TOTAL 2017	TOTAL 2018	TOTAL 2019	TOTAL 2020	TOTAL 2021										
						\$729,559		\$1,262,901		\$1,314,015	\$1,438,606		\$1,397,633		\$2,003,218		\$1,862,334		\$1,773,012		\$1,677,963		\$1,594,263		

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
<i>Library Trustees</i>																				
New Library	1	3,450,000	1	350,000																
LIBRARY TOTALS		3,450,000		350,000		-		-		-		-		-		-		-		-

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Library Facility	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Durham Public Library		Mandated	X	X								
Division	Library Facility		Council Goal										
Location	49 Madbury Road		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The Durham Public Library has been housed in 3,000 square feet of space in the Mill Plaza - in what was intended to be a temporary facility - since 1997. In 2010 the Town purchased 2.8 acres with a house at 49 Madbury Rd. A design has been drafted and the next step is to renovate and expand the house to create a 10,500 square foot permanent town library.

RATIONALE: (Cost/Benefit Analysis)

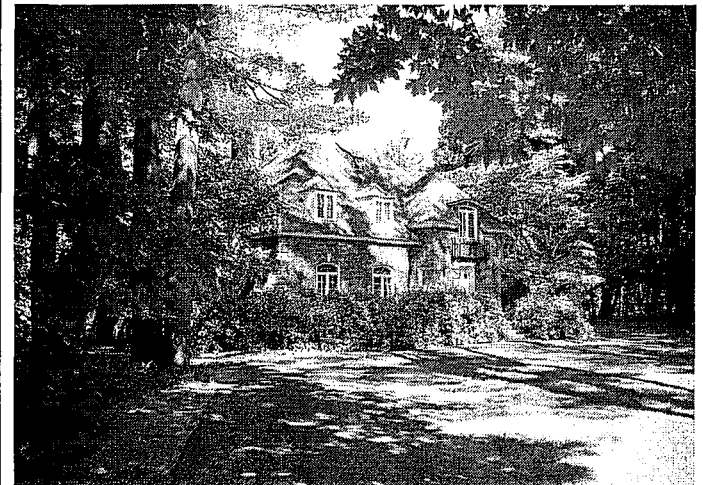
Annually the town spends about \$56,500 to rent the Mill Plaza facility, and this project will redirect this expenditure to greater service and public facilities. Starting in 2010 the property was purchased using privately raised funds received by the Library Board of Trustees, a detailed building space program was prepared with public input, a design/build team was selected, and a design has now been prepared with additional public input. The time is opportune to establish a permanent library, the cost of construction is currently in recession with the best construction pricing in years, and bond interest rates remain very low; postponing this inevitable project will significantly increase the cost to the community. The intent is to design and construct a facility that will be a good long term value to the Town by ensuring it is energy efficient in its systems and staff efficient in its layout. \$2.1m of non-taxpayer funds from donations, grants, and funds previously received by the library for a permanent building will go toward this project. \$1.2M of actual funds was collected prior to March 2011 with a capital campaign now underway to raise an additional \$900,000 in pledges by the end of this year.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Library staffing will need to be increased by up to two additional full time equivalent (FTE) positions by the time the new library opens for an additional cost of \$27,000 annually. By making the building as energy efficient as possible, it is projected that the cost of heat and electricity will increase approximately \$27,000. We anticipate having twice as many computers in the new building requiring an additional \$2,000. These increases will be offset by the elimination of today's rent (\$56,500). This results in no additional operating cost if the building is open the same as it is today - 38 hours of operation/week. Increasing library hours to 51/week (comparable to many other town libraries in the State), would result in a \$57,000 increase. The Trustees will continue annual fundraising to augment the annual operating budget. In recent years these outside funds have added between \$18,000 and \$25,000 annually.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design	23,000											23,000
Design	237,000	75,000										312,000
Land Purchase	600,000											600,000
Construction	140,000	3,375,000	350,000									3,865,000
TOTAL	1,000,000	3,450,000	350,000	0	0	0	0	0	0	0	0	4,800,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		2,700,000										2,700,000
Federal												0
State												0
UNH												0
Trade In												0
Other (library)	1,000,000	750,000	350,000									2,100,000
TOTAL	1,000,000	3,450,000	350,000	0	0	0	0	0	0	0	0	4,800,000



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
<i>Planning</i>																				
Wagon Hill Parking					1	26,500														
Downtown Sidewalks											1	630,000								
Technology Drive Infrastructure Improvement																	1	2,145,000		
PLANNING TOTALS		-		-		26,500		-		-		630,000		-		-		2,145,000		-

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Wagon Hill Parking	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Planning & Community Development		Mandated										
Division	General Government		Council Goal			X							
Location	Wagon Hill - Route 4		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Installation of a 60' x 250' gravel parking lot at Wagon Hill. This parking lot would hold approximately 50 vehicles and be located between the barn and apple orchard.

RATIONALE: (Cost/Benefit Analysis)

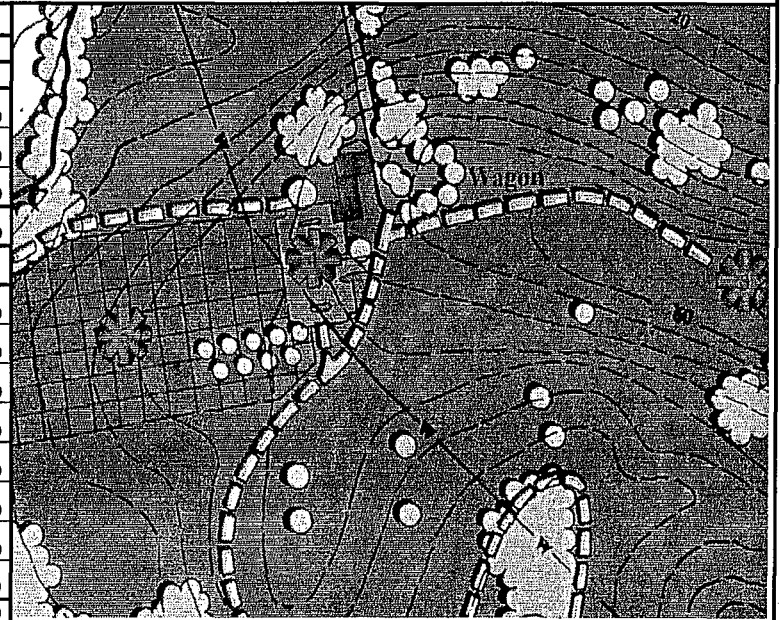
Both the 1995 Wagon Hill Farm Master & Management Plan and the Master Plan 2000 call for improvements to Wagon Hill Farm. In the past there have been calls for the possibility of establishing a resident and non-resident permit system for the use of Wagon Hill and we will need to make improvements to the facility and parking. The Recreation Chapter (Chapter 5) of the Master Plan 2000 speaks to these, and other, improvements to Wagon Hill. There has been work done already but more will be needed to provide for more recreational activity at Wagon Hill Farm. Wagon Hill Farm is a tremendous resource for the Town of Durham and beyond. It is also an underutilized resource.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Continued maintenance of the parking area, mostly in the winter with plowing, will be needed and would affect the Public Works Department Budget or possibly the Recreation Committee's budget. The use of fees (permit or user) could help offset these costs and potentially cover them.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				26,500								26,500
TOTAL	0	0	0	26,500	0	0	0	0	0	0	0	26,500
FUNDING:												
Operating Rev.				26,500								26,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	26,500	0	0	0	0	0	0	0	26,500



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Downtown Sidewalks	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Planning & Community Development		Mandated										
Division	General Government		Council Goal						X				
Location	Downtown Area		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Constructing sidewalks in order to create a safer environment in the downtown that is less vehicle oriented and more pedestrian oriented. The areas proposed for the sidewalks are as follows - west side of Strafford Avenue from Garrison to the sidewalk in the vicinity of the New England Center; Madbury Road on the east side from Woodman to Garrison Avenue; Garrison Avenue on the south side from Madbury Road to Main Street; Pettee Brook Lane in front of the UNH Police Station; and Mill Road on the west side from the UNH "C" lot to 6-8 Mill Road.

RATIONALE: (Cost/Benefit Analysis)

This project will provide an interconnected network of five foot sidewalks and granite curbing that will serve Durham's downtown businesses, central residential area, and the University of New Hampshire. Currently some sidewalks exist in the project area; however, there are breaks in the network or a lack of sidewalk on both sides of the road where, due to the heavy pedestrian traffic, sidewalks are warranted on both sides of the road. The project will improve pedestrian safety by providing a level, all season, and maintained sidewalk with curbing that provides an improved level of protection to pedestrians. Requests have been made for crosswalks in several locations, but since there are not sidewalks on both sides of the road, these requests have been denied. In addition to providing pedestrian safety, this project is intended to encourage more pedestrian and bicycle travel. We will seek funding from the University to assist in this project as well as federal grant money through the Transportation Enhancement (TE) Grant program.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This will impact the Public Works Department due to the maintenance, sidewalk plowing, and reconstruction in the future.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design							60,000					60,000
Purch/Const.							570,000					570,000
TOTAL	0	0	0	0	0	0	630,000	0	0	0	0	630,000
FUNDING:												
Operating Rev.							63,000					63,000
Capital Reserve												0
Bond												0
Federal							504,000					504,000
State												0
UNH							63,000					63,000
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	630,000	0	0	0	0	630,000

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Technology Drive Infrastructure Improvements	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Planning & Community Development	Project in Chapter 8, p.8.20-8.21	Mandated										
Division	General Government		Council Goal									X	
Location	Technology Drive Area		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Extension of 4260 feet of roadway and sewer line in and around Technology Drive and Beech Hill Road to allow for further commercial development in the area. The water line already runs up Technology Drive to the Beech Hill water tank and we would not need to extend the water line at this time.

RATIONALE: (Cost/Benefit Analysis)

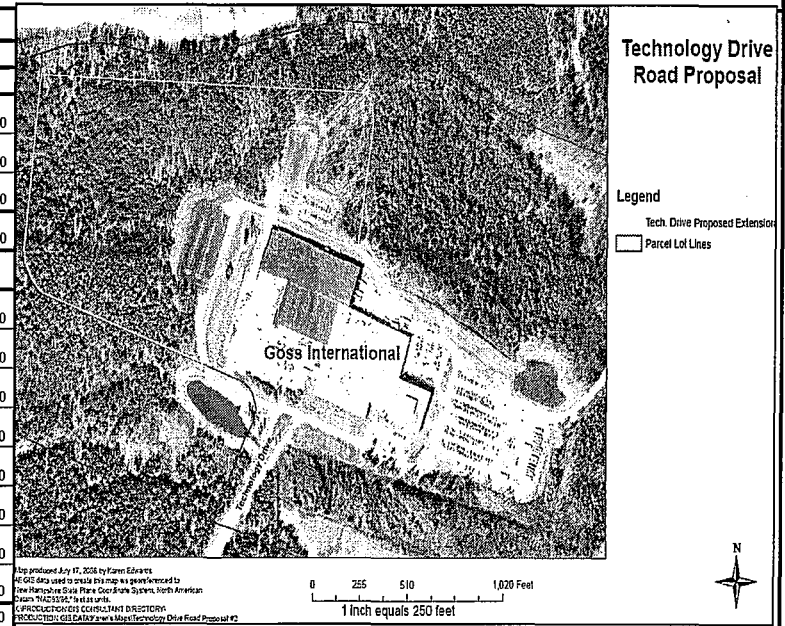
Extending municipal utilities to the area could help spur commercial development and an help to stabilize taxes in Durham. The area is zoned for office, research, and light industry and there is great potential for the area to be developed.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

If the Town were to construct the infrastructure extensions for the Technology Drive area, the Department of Public Works would incur maintenance costs as well as eventual repaving of the road. Any sewer or water extensions in the public right-of-way would be the responsibility of the Town.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design										162,000		162,000
Purch/Const.										1,983,000		1,983,000
TOTAL	0	0	0	0	0	0	0	0	0	2,145,000	0	2,145,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond										2,145,000		2,145,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	0	0	0	2,145,000	0	2,145,000



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Police Department																				
Vehicle Replacement (Purchase 2/Yr)	1	31,000	1	62,000	1	62,000	1	62,000	1	62,000	1	62,000	1	62,000	1	64,000	1	64,000	1	65,000
Building Needs Assessment											2	15,000								
POLICE TOTALS		31,000		62,000		62,000		62,000		62,000		77,000		62,000		64,000		64,000		65,000

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Police	None	Mandated	X	X	X	X	X	X	X	X	X	X
Division	Enforcement		Council Goal										
Location	86 Dover Road		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

We have attempted to purchase two vehicles annually to meet our structured vehicle replacement plan. Unfortunately, the last six years where there should have been twelve (12) vehicles purchased, we have only replaced seven (7) due to budget restrictions. Our plan was to replace two frontline responding police vehicles annually so that the six marked units would be fully rotated every three-years. The vehicles are then transferred to detectives, administration or to other Town departments where the type of use does not require such challenging 24/7 use with extensive idling time in between. As you will recall, the Durham Police committed to purchase a more fuel efficient police vehicle based upon the Ford Taurus. Two of these vehicles were budgeted for in 2011 but due to State budget challenges and costs being passed on to Durham we were required to eliminate one vehicle. Our plan for 2012 was to replace two vehicles but due to several factors, we will replace only one.

RATIONALE: (Cost/Benefit Analysis)

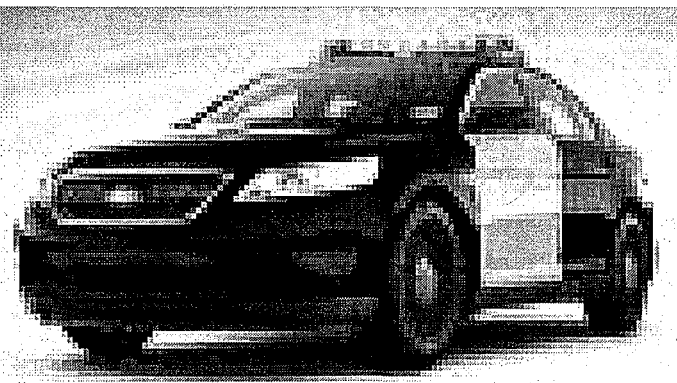
It cannot be overstated that the annual cost to purchase two vehicles allows for the placement of six police cruisers in service patrolling the neighborhoods of Durham. Police vehicles are driven under the most strenuous conditions almost 24 hours daily. Rarely are the engines turned off as they idle at accident scenes, traffic stops or directed patrols. Although they are built to be a "police interceptor", even the best of vehicles require repair especially under these strenuous conditions. Our ability to shift vehicles from the "front line" as marked vehicles to detectives, training transportation and to other Town departments has been very successful with many of our ex-police vehicles still being operated with excess of 150,000 miles. With an exceedingly lean and frugal budget, virtually the only area to cut without losing personnel is and has been cruisers. In the past four budget cycles we replaced 1 vehicle in 2007, 2 in 2008 and 1 in 2009 and 1 in 2010 leaving us 3 cruisers behind in our planning. This shortfall may begin to be accentuated as mechanical issues or replacement schedules falter.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During development of these cruisers by Ford, indications were that equipment from the Crown Victoria would be transferable. This has not been the case and a number of items are required to be installed in the retrofitted Taurus such as warning lights for the top of the cruiser (\$1,000) and molded plastic back seats (\$400) adding additional expenses. Consequently, these items will increase funding requirements until all six cruisers have the appropriate equipment.

FINANCIAL PLAN

oli	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		31,000	62,000	62,000	62,000	62,000	62,000	62,000	64,000	64,000	65,000	596,000
TOTAL		31,000	62,000	62,000	62,000	62,000	62,000	62,000	64,000	64,000	65,000	596,000
FUNDING:												
Operating Rev.		31,000	62,000	62,000	62,000	62,000	62,000	62,000	64,000	64,000	65,000	596,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	31,000	62,000	62,000	62,000	62,000	62,000	62,000	64,000	64,000	65,000	596,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Police Facility Needs Assessment	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Police	None	Mandated										
Division	Administration		Council Goal						X				
Location	86 Dover Road		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

This proposal will contract with an appropriate engineering firm to determine the future use of the current police facility located at 86 Dover Road.

RATIONALE: (Cost/Benefit Analysis)

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design							15,000					15,000
Design												0
Purch/Const.												0
TOTAL	0	0	0	0	0	0	15,000	0	0	0	0	15,000
FUNDING:												
Operating Rev.							15,000					15,000
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	15,000	0	0	0	0	15,000



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Fire Department																				
Turnout Gear Replacement	1	90,000																		
New Fire Station			1	857,000					1	7,500,000										
Asst. Chief Vehicle Replacement			2	50,000														2		47,000
Upgrade to Web Based Software - FH			3	25,000																
Radio Upgrades			4	40,000					3	15,000							1	250,000		
Water Rescue Vehicles			5	28,000																
Engine 2 Replacement					1	600,000														
Hurst Tool Replacement					2	50,000														
Vehicle Air Bag Lifts Replacements					3	10,000														
Engine 1 Refurbishment							1	200,000												
Deputy Chief Vehicle Replacement									2	45,000										
Confined Space Trailer Replacement									4	50,000										
Medic 1 Replacement											1	100,000								
Prevention Vehicle Replacement											2	35,000								
Forestry Unit Replacement													1	70,000						
Fire Chief Vehicle Replacement													2	50,000						
Defibrillator Replacement																	2	40,000		
Tanker 1 Replacement																		1		150,000
FIRE TOTALS		90,000		1,000,000		660,000		200,000		7,610,000		135,000		120,000		-		290,000		197,000

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Turnout Gear	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated	X									
Division	Fire Suppression		Council Goal										
Location	51 College Road		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Purchase 34 sets of turnout gear.

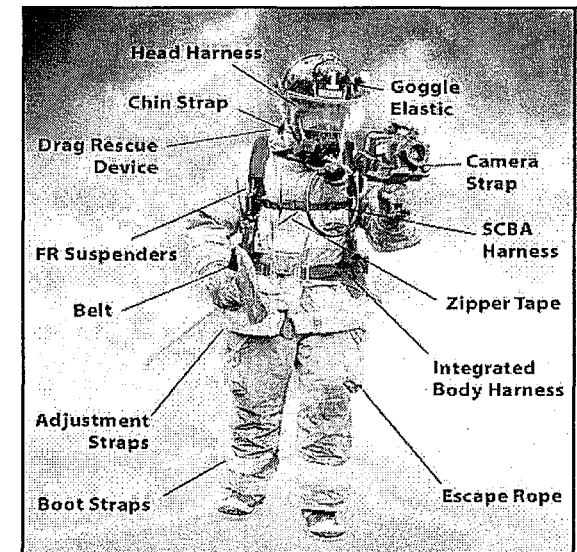
RATIONALE: (Cost/Benefit Analysis)

This will outfit the current Firefighters/Captains and Administrative staff with gear. A set consists of a protective coat, a pair of protective pants tailored for each individual, boots, helmet, hood, gloves, suspenders, flashlights, forestry shirts etc. With the turnover of personnel over the last three years the yearly purchase of replacement gear has fallen dramatically behind and this purchase will give the department a clean slate to start with all personnel and give us the appropriate backup gear which is required under Union contract as well as for daily use. Backup gear is used when the primary gear has been in a hazardous environment and is being cleaned. The firefighter will wear their backup set during the two days it takes for a set to clean and dry appropriately.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		90,000										90,000
TOTAL	0	90,000	0	0	0	0	0	0	0	0	0	90,000
FUNDING:												
Operating Rev.												0
Capital Reserve		90,000										90,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	90,000	0	0	0	0	0	0	0	0	0	90,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Master Plan Information	Project Need	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
New Fire Station												
Department	Fire Department	Mandated										
Division	Administration	Council Goal		X			X					
Location	Mill Road	Dept. Goal		X								

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Funds in 2013 are for the architectural and engineering services needed for the construction of a new fire station for the Town of Durham, New Hampshire. The building will be approximately 30,000 gross square feet and will generally be configured as indicated on conceptual drawings by LeMay Erickson Wilcox Architects. The project construction budget is approximately \$7.5M for building and site.

RATIONALE: (Cost/Benefit Analysis)

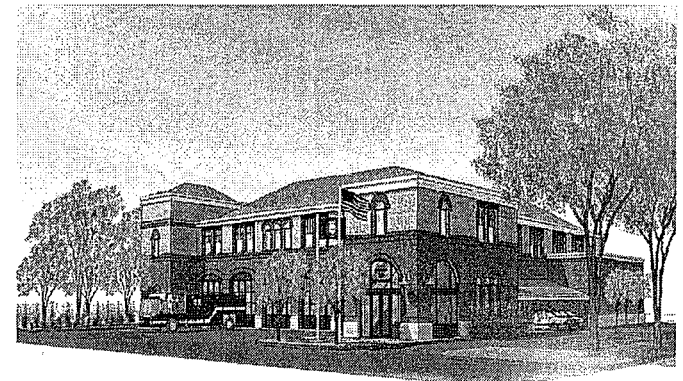
The Fire Department is in the third year of the current 10 year lease with the University of New Hampshire. The UNH Master plan shows that the current location will be transformed into an academic building and force the eviction of the Fire Department with a two year notice. Plans in themselves take approximately 10 months to complete and in preparing, we would be ready if a Government Grant were to become available. Our current Architects will provide the design and architectural plans for the new station, making our project ready as our notice may come at any point in time during the next seven years.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Although there are costs associated with the plans and further costs with the construction of the station, we are currently paying the University of New Hampshire a lease payment of \$169,000 per year for the current location on College Road.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design			857,000									857,000
Design												0
Purch/Const.						7,500,000						7,500,000
TOTAL	0	0	857,000	0	0	7,500,000	0	0	0	0	0	8,357,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond			428,500			3,750,000						4,178,500
Federal												0
State												0
UNH			428,500			3,750,000						4,178,500
Trade In												0
Other												0
TOTAL	0	0	857,000	0	0	7,500,000	0	0	0	0	0	8,357,000



CONCEPTUAL DESIGN - MILL ROAD
DURHAM FIRE DEPARTMENT
14 MARCH 2011



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Assistant Chief Vehicle Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated		X						X		
Division	Fire Maintenance		Council Goal										
Location	Fire Department		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Administration Car 2 is assigned to the Assistant Chief of the department and is utilized for incident command. The vehicle should be replaced with a comparable vehicle.

RATIONALE: (Cost/Benefit Analysis)

After six years of front line service the vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace these vehicles. This vehicle will be passed down to the Fire Prevention Officer.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN												
	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			50,000								47,000	97,000
TOTAL	0	0	50,000	0	0	0	0	0	0	0	47,000	97,000
FUNDING:												
Operating Rev.												0
Capital Reserve			50,000								47,000	97,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	50,000	0	0	0	0	0	0	0	47,000	97,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Upgrade to Web Based Software - FH												
Department	Fire Department	Mandated		X								
Division	Administration	Council Goal										
Location	DFD	Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The current software program used is accessed in the office and is a basic program. We are hoping to upgrade to the Web Based Software that will allow us to enter inspections on site or incidents in real time as they occur. The amount requested is for the installation and implementation of the software. A yearly fee will be charged on the upkeep to the server.

RATIONALE: (Cost/Benefit Analysis)

While out for a routine inspection of a building or responding to a call, whether a fire, vehicle accident or medical aid, we would be able to record data in real time. This also alleviates the need for excess paper work and data entry by several persons.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Currently our software has an annual maintenance fee of \$625. This will increase to \$2,700 as the software will be hosted by the Firehouse server.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			25,000									25,000
TOTAL	0	0	25,000	0	0	0	0	0	0	0	0	25,000
FUNDING:												
Operating Rev.												0
Capital Reserve			25,000									25,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	25,000	0	0	0	0	0	0	0	0	25,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Radio Upgrades	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY21
Department	Fire Department		Mandated										
Division	Fire Suppression		Council Goal		X			X				X	
Location	Fire Department		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

To upgrade portable, mobile and transmit radio system.

RATIONALE: (Cost/Benefit Analysis)

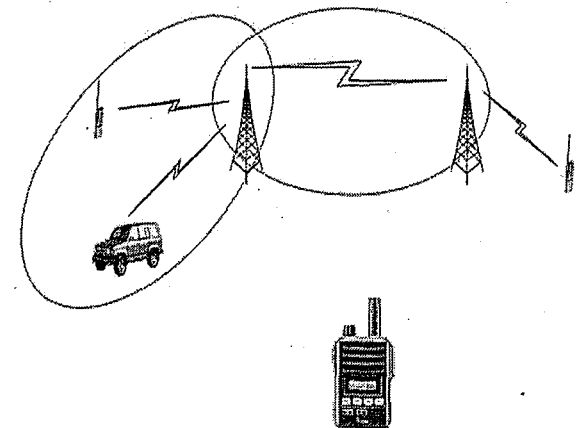
In 2006 through a Homeland Security Grant the Town of Durham received portable radios and mobile units. At this time we need to start replacing these units a few at a time as some of these units have been damaged. This will also keep us updated with technology and not cause a large amount of money at one point to be expended to replace the entire amount of equipment.

In FY20 we are also looking to improve our radio transmit system which was upgraded to allow for better penetration into buildings in our in-town area. When we made this change to the system we dramatically reduced the transmission of our radio outside the town of Durham. What that means is our employees who we rely on for emergency callback do not receive the transmissions as they did before. We are looking to add a repeater system at either Beech Hill or the Strafford County Courthouse; this will increase our radio communications.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			40,000			15,000				250,000		305,000
TOTAL	0	0	40,000	0	0	15,000	0	0	0	250,000	0	305,000
FUNDING:												
Operating Rev.												0
Capital Reserve			40,000			15,000				250,000		305,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	40,000	0	0	15,000	0	0	0	250,000	0	305,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Water Rescue Vehicles Purchase	MASTER PLAN INFORMATION	PROJECT NEED	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY 20	FY21
Department	Fire Department		Mandated		X								
Division	Fire Suppression		Council Goal										
Location	51 College Road		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The Durham Fire Department proposes the purchase of two Water Rescue vehicles for the purpose of water related rescues and incident response.

RATIONALE: (Cost/Benefit Analysis)

The water rescue program for the Town of Durham is now land based. This means all of our rescue operations occur from shore. Increased hazard and risk are created for firefighters that are required to swim from shore and there is no opportunity for back-up if something goes wrong. Additionally, our department has participated in four years of training with personal water craft in order to partake in the Yamaha's Law Loan program. With a generous donation we were able to purchase a trailer and water rescue equipment for this program (still in stock) which eventually ran out of funding and is no longer available.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minimal routine maintenance costs that are not covered by a warranty.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			28,000									28,000
TOTAL	0	0	28,000	0	0	0	0	0	0	0	0	28,000
FUNDING:												
Operating Rev.												0
Capital Reserve			28,000									28,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	28,000	0	0	0	0	0	0	0	0	28,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Engine 2 Replacement												
Department	Fire Department	Mandated										
Division	Fire Maintenance	Council Goal			X							
Location	51 College Road	Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace Engine 2, a 1990 Emergency One Cyclone, with a new "First Due" pumper.

RATIONALE: (Cost/Benefit Analysis)

The current Engine 2 would then be downgraded to a reserve pumper to be used when either the first-due or second-due pumpers are out of service or assigned to a large scale, prolonged emergency incident. This will save the community the maintenance/repair costs and, most importantly, the replacement cost of a large piece of fire apparatus. This makes it vital not to try to make the existing two engines last longer than they should. Attempting to do so makes the risk or sudden mechanical breakdown more possible and leaves the community without adequate fire apparatus.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Although there will be an expected moderate impact on the maintenance budget, the cost savings will be realized in the long run.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				600,000								600,000
TOTAL	0	0	0	600,000	0	0	0	0	0	0	0	600,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond				300,000								300,000
Federal												0
State												0
UNH				300,000								300,000
Trade In												0
Other												0
TOTAL	0	0	0	600,000	0	0	0	0	0	0	0	600,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Hurst Tool Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated										
Division	Fire Maintenance		Council Goal			X							
Location	Fire Department		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace all components of the Hurst tool including a primary power unit, back up power unit, cutters, spreaders and hydraulic rams that are stored on Rescue 1. Our current set is tested annually for function and hydraulic leaks, however, there is not an available test for fatigue of the components. These tools are subjected to all kinds of forces as they cut, pry and push apart cars in order to extricate victims from motor vehicle accidents. The intention of this purchase is to put these tools onto a fixed fifteen year life expectancy to maintain a high level of safety and reliability.

RATIONALE: (Cost/Benefit Analysis)

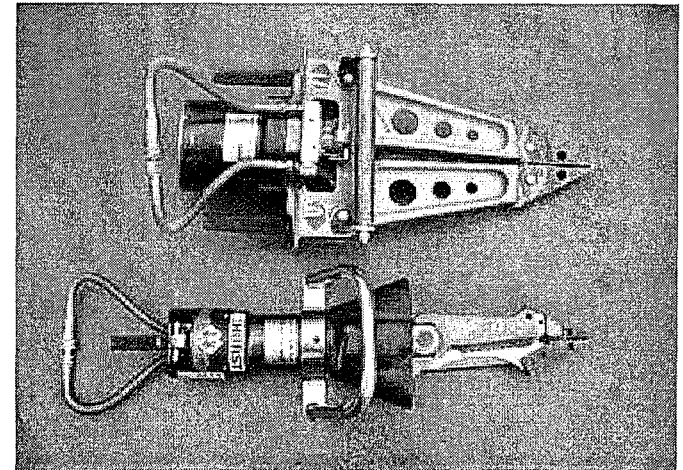
Of the current tools three are 25 years old - 1985 two rams and a spreader. Four are 10 years old - 2000 primary power unit, ram and 2 combi tools. One is six years old - 2004 back up power unit. The newest piece of equipment is three years old - 2007 Cutter. Except for the newest cutter the tools are not strong enough to handle some of today's vehicles with stronger metals. Replacing the whole set would allow us to get tools with greater cutting, spreading and pushing forces.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This replacement would allow us the opportunity to consider switching brands to standardize with the Amkus tools on the engine received by the Police Department under a grant. Some of the benefits that could come from this include reduced maintenance costs. Amkus provides all routine services with a maintenance contract. If we wanted to save even more costs, we could potentially send a firefighter to training to reduce the annual testing costs.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				50,000								50,000
TOTAL	0	0	0	50,000	0	0	0	0	0	0	0	50,000
FUNDING:												
Operating Rev.												0
Capital Reserve				50,000								50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	50,000	0	0	0	0	0	0	0	50,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Vehicle Air Bag Lifts Purchase	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated										
Division	Fire Maintenance		Council Goal			X							
Location	Fire Department		Dept. Goal			X							

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Purchase Air Bags to replace our current air bags purchased in 1996. Air bags are used for lifting vehicles off a person or can be used in farm machinery or industrial entrapment and building collapse rescues. When these airbags are used firefighters are often required to work under the heavy loads they are holding.

RATIONALE: (Cost/Benefit Analysis)

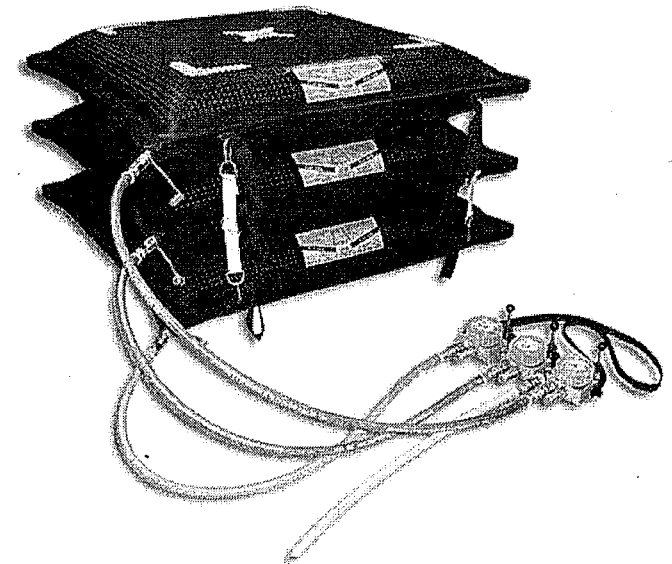
Although these air bags are tested annually, they are subjected to large amounts of stress lifting objects up to 32 tons. These forces can create areas of fatigue that cannot be seen. The intention of this purchase is to begin replacing the air bags on a fixed lifetime of 15 years to maintain a high level of safety. 10 - 15 years is the manufacturers recommendation.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The impact of this purchase would come in the form of prevented failures, prevented injuries and those related costs.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				10,000								10,000
TOTAL	0	0	0	10,000	0	0	0	0	0	0	0	10,000
FUNDING:												
Operating Rev.												0
Capital Reserve				10,000								10,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	10,000	0	0	0	0	0	0	0	10,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Engine 1 Refurbishment												
Department	Fire Department	Mandated										
Division	Fire Maintenance	Council Goal				X						
Location	51 College Road	Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Refurbishment of Engine 1, the 2000 American LaFrance Eagle Pumper.

RATIONALE: (Cost/Benefit Analysis)

In keeping with our commitment to extend the useful life of our major fire apparatus and as a result, the most value to the community, we plan for a partial refurbishment of all major pieces of fire apparatus at the mid-point of their estimated 25 year life span.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

We can expect to see maintenance costs for this unit drop significantly after the refurbishment.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.					200,000							200,000
TOTAL	0	0	0	0	200,000	0	0	0	0	0	0	200,000
FUNDING:												
Operating Rev.												0
Capital Reserve					200,000							200,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	200,000	0	0	0	0	0	0	200,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Deputy Chief Vehicle Replacement												
Department	Fire Department	Mandated										
Division	Fire Maintenance	Council Goal					X				X	
Location	Fire Department	Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Prevention Car 3 is assigned to the Deputy Chief of the department and is utilized for incident command. The vehicle should be replaced with a comparable vehicle.

RATIONALE: (Cost/Benefit Analysis)

After eight years of front line service the vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace these vehicles.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.						45,000						45,000
TOTAL	0	0	0	0	0	45,000	0	0	0	0	0	45,000
FUNDING:												
Operating Rev.												0
Capital Reserve						45,000						45,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	45,000	0	0	0	0	0	45,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Confined Space Trailer Replacement												
Department	Fire Department	Mandated										
Division	Fire Suppression	Council Goal										
Location	Fire Department	Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The current trailer carries all of the department's specialized rescue gear for high angle and below grade rescues, trench rescue, woodland searches, etc. It contains tools, ropes, harnesses, tripods, shoring equipment, etc. The trailer can be towed behind the forestry or medic truck to a location as needed.

RATIONALE: (Cost/Benefit Analysis)

This item is crucial to us performing as a stand-by rescue team for confined space entries, as well as allowing us flexibility with other emergencies. The interior of the vehicle has not been adequately upgraded since its original configuration.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Maintenance is a minimum and consists of standard preventive vehicle maintenance.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.						50,000						50,000
TOTAL	0	0	0	0	0	50,000	0	0	0	0	0	50,000
FUNDING:												
Operating Rev.												0
Capital Reserve						50,000						50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	50,000	0	0	0	0	0	50,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Medic 1 Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated										
Division	Fire Maintenance		Council Goal						X				
Location	Fire Department		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

To replace the 2009 truck with a similar one-ton Heavy Duty pick up truck outfitted to be used as a medical response vehicle, equipped with emergency warning systems and two-way radio.

RATIONALE: (Cost/Benefit Analysis)

This is the Fire Department's primary response vehicle used with paramedic level of care. To insure reliability in emergency responses where advanced life support and life saving equipment is needed it is necessary to replace this vehicle on a 10 year schedule.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.							100,000					100,000
TOTAL	0	0	0	0	0	0	100,000	0	0	0	0	100,000
FUNDING:												
Operating Rev.												0
Capital Reserve							100,000					100,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	100,000	0	0	0	0	100,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Prevention Vehicle Replacement												
Department	Fire Department	Mandated										
Division	Fire Prevention	Council Goal						X		X		
Location	Fire Department	Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The Department proposes to replace the 2007 Ford Explorer passed down to the Fire Inspector in 2017 with a midsized pick up truck like the Chevy Colorado.

RATIONALE: (Cost/Benefit Analysis)

The Fire Prevention Bureau is in need of a staff vehicle so the Fire Inspector is able to make daily appointments. The appointments vary in time and location throughout Durham and the University.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.							35,000					35,000
TOTAL	0	0	0	0	0	0	35,000	0	0	0	0	35,000
FUNDING:												
Operating Rev.												0
Capital Reserve							35,000					35,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	35,000	0	0	0	0	35,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Forestry Unit Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Fire Department		Mandated										
Division	Fire Maintenance		Council Goal							X			
Location	Fire Department		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace Forestry unit after 10 years of service, with a similar vehicle as the Ford F-350 pick up truck. The vehicle is equipped with a portable water tank and necessary components for brush fires.

RATIONALE: (Cost/Benefit Analysis)

The rural character of the area makes it necessary to have a reliable vehicle which can be taken off road in rough terrain to fight brush fires.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY 18	FY 19	FY 20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.								70,000				70,000
TOTAL	0	0	0	0	0	0	0	70,000	0	0	0	70,000
FUNDING:												
Operating Rev.												0
Capital Reserve								70,000				70,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	0	70,000	0	0	0	70,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Fire Chief's Car Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY21
Department	Fire Department		Mandated										
Division	Fire Administration		Council Goal							X			
Location	Fire Department		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Chief officer vehicle which is utilized for incident command should be replaced with comparable vehicle purchased in 2010.

RATIONALE: (Cost/Benefit Analysis)

After eight years of front line service the vehicles are not suitable for emergency operations and would be better suited to be reassigned to the town fleet of support vehicles. Repair costs and reliability as emergency vehicles make it necessary to replace these vehicles.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

During the first three years of operation, the operating budget is impacted in a positive way while the vehicles major components are under warranty. General maintenance and gasoline costs remain unchanged.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY 17	FY 18	FY 19	FY 20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.								50,000				50,000
TOTAL	0	0	0	0	0	0	0	50,000	0	0	0	50,000
FUNDING:												
Operating Rev.												0
Capital Reserve								50,000				50,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	0	50,000	0	0	0	50,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2022 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Defibrillator Replacement												
Department	Fire Department	Mandated										
Division	Fire EMS	Council Goal										
Location	51 College Road	Dept. Goal X									X	

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

This Unit will effectively replace a Philips MRX 12-lead Defibrillator that was purchased in 2010. This unit is now directly compatible with the AED's on the UNH campus, which have been switched to the Philips brand as well. This monitor can automatically transmit the 12-lead tracing to five separate locations through Blue-tooth technology, utilizing pre-purchased software that is currently managed on a dedicated DFD server. The color screen on the monitor provides for real-time viewing of all 12 leads, allowing for verification of all lead tracings. Additionally, the unit conducts a self-test of most operating electronics contained within, assuring that the machine is always ready to go, and quickly indicates any detected mechanical/electrical problem with the unit.

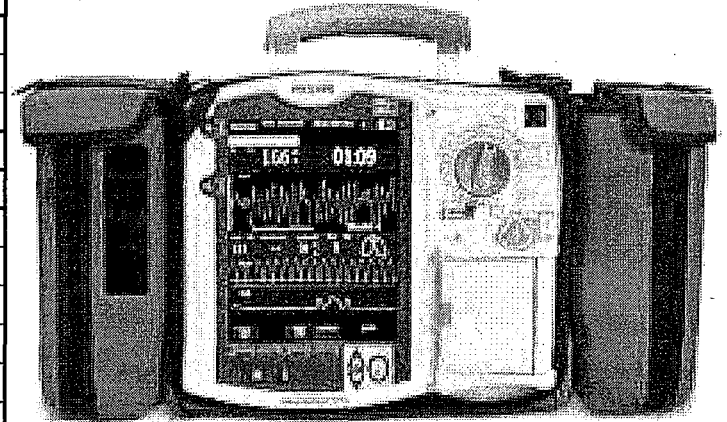
RATIONALE: (Cost/Benefit Analysis)

The Philips MRX 12-lead Defibrillator was purchased in 2010, replacing the out-dated Lifepak 12 by medtronic. DFD personnel have used this equipment extensively in the field and are impressed with its performance. This unit has eliminated the need for multiple spare batteries and a separate battery charger unit as well. In addition to a yearly maintenance fee, there is a discounted purchase plan in place for the associated disposable items.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

There may be a change in the yearly maintenance fee and/or disposable supplies.

FINANCIAL PLAN												
	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.										40,000		40,000
TOTAL	0	0	0	0	0	0	0	0	0	40,000	0	40,000
FUNDING:												
Operating Rev.												0
Capital Reserve										40,000		40,000
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	0	0	0	0	0	0	40,000	0	40,000



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Public Works - Operations Division																				
Road Resurfacing	1	455,487	1	458,153	1	375,516	1	415,453	1	425,647	1	365,017	1	425,402	1	488,457	1	326,672	1	427,034
Roadway Sweeper Replacement	2	175,000																		
Dump Truck Replacement	3	165,000	2	168,000	2	171,000	2	174,000	2	177,000					2	186,000				
Pettee Brook Lane Corridor - Phase II	4	75,000																		
Sidewalk Snow Tractor Replacement	5	55,960																		
Downtown Parking Lot Paving	6	34,550																		
Edgewood Road Sidewalk Replacement	7	28,890																		
Main Street Railroad Bridge Rehab	8	19,500																		
Bennett Road Culvert	9	800,000																		
Longmarsh Road Culvert Engineering/Replacement	10	51,000	8	765,000																
Crommets Creek Bridge Repair	11	49,000	3	359,000																
Culvert & Outfalls Improvements Program	12	118,000	6	92,220	3	139,060	3	149,515	3	92,696	2	95,877	2	92,355	3	89,114	2	97,207		
Stormwater Management System Improvements	13	58,934	7	60,000	4	57,400	4	56,343	4	59,656	3	55,223	3	58,120	4	57,060	3	10,000		
Coe Drive Sidewalk			4	60,800																
One-Half Ton Pickup Truck Replacement			5	18,500																
PW - OPERATIONS TOTALS		2,086,321		1,981,673		742,976		795,311		754,999		516,117		575,877		820,631		433,879		427,034

2012 - 2021 CIP Project Description

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

See attached 2012-2028 Pavement Plan. The 2012 Program will include Bagdad Road (1st half), Magrath Road, Oyster River Road, Pettee Brook Lane, Sunnyside Drive, Valentine Hill Road, Willey Road and Wiswall Road Phase 1. The scope of work will include a combination of 1" shim and overlay on some roads and full depth reclamation of others.

Good roadway infrastructure is critical especially with New England weather. Good roads promote Town pride and economic stimulation. The Department of Public Works has a comprehensive sixteen year plan. This program is designed to provide treatment for every road in town every fourteen-sixteen years. Durham Public Works recommends the road program to be the highest priority project every year.

The program is designed to invest approximately \$400,000 per year. State block grant funds are estimated at \$255,000 annually for the next few years. The more investment in a solid resurfacing program, the less time spent on smaller maintenance items (i.e., crack filling, pot hole patching) and personnel time to accomplish these tasks.

45

DURHAM 2012-2028 ROAD PROGRAM

INCLUDES 3% ANNUAL COST INCREASES

2012-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	LAST TREATMENT	COST
BAGDAD ROAD (1ST HALF)	1" OL	0.63	3322	1992	\$ 77,796.00
MAGRATH ROAD	RECLAIM + 3"	0.16	844	1992	\$ 25,200.00
OYSTER RIVER ROAD	1" OL	0.42	2217	1994	\$ 42,360.00
PETTEE BROOK LANE	1" OL	0.20	1100	1991	\$ 23,056.00
SUNNYSIDE DRIVE	RECLAIM + 37 1"OL	0.41	2165	1993	\$ 62,753.00
VALENTINE HILL ROAD	1" OL	0.14	729	1996	\$ 17,027.00
WILLEY ROAD	RECLAIM + 3"	0.30	1595	1995	\$ 63,800.00
WISWALL ROAD PHASE I	RECLAIM + 3"	0.7	3678	1994	\$ 143,495.00
2.96 SUBTOTAL					\$ 455,487.00

2013-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BAGDAD RD (2ND HALF)	1" OL	0.63	3323	1992	\$ 80,130.00
BEECH HILL ROAD	1" OL	0.13	692	1980	\$ 16,598.00
BRIARWOOD LANE	1" OL	0.09	500	1989	\$ 7,577.00
COE DRIVE	1" OL	0.70	3625	1996	\$ 96,999.00
GARDEN LANE	1" OL	0.35	1848	1992	\$ 35,459.00
GRIFFITH DRIVE	1" OL	0.33	1745	1989	\$ 33,491.00
HOITT DRIVE	1" OL	0.16	844	1994	\$ 16,193.00
PENDEXTER ROAD	1" OL	0.41	2170	1988	\$ 4,636.00
PINECREST LANE	1" OL	0.79	4197	1995	\$ 82,632.00
WISWALL ROAD PHASE II	RECLAIM + 3"	0.35	1840	1994	\$ 73,900.00
WOODSIDE DRIVE	1" OL	0.11	580	1987	\$ 10,548.00
4.40 SUBTOTAL					\$ 458,153.00

2014-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BAYVIEW ROAD	1" OL	0.19	1010	1996	\$ 16,570.00
BEARDS LANDING	1" OL	0.14	739	1996	\$ 12,123.00
BUNKER LANE	1" OL	0.06	316	1995	\$ 5,183.00
CUTTS ROAD	1" OL	0.50	2620	1995	\$ 51,563.00
DENBOW ROAD	1" OL	0.44	2303	1995	\$ 48,495.00
DENNISON ROAD	1" OL	0.28	1482	1985	\$ 45,256.00
FFROST DRIVE	1" OL	0.81	4298	1995	\$ 84,620.00
LITTLEHALE ROAD	1" OL	0.28	1500	1993	\$ 29,532.00
STONE QUARRY DRIVE	1" OL	0.29	1535	1998	\$ 32,528.00
TIMBER BROOK LANE	1" OL	0.09	465	1994	\$ 8,155.00
YOUNG DRIVE	1" OL	0.24	1243	1995	\$ 24,473.00
3.32 SUBTOTAL					\$ 357,516.00

2015-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
CEDAR POINT ROAD	1" OL	0.12	550	1992	\$ 11,798.00
GARRISON AVENUE	1" OL	0.28	1478	1989	\$ 32,674.00
HAMPSHIRE AVENUE	1" OL	0.25	1297	1990	\$ 32,221.00
LUNDY LANE	1" OL	0.10	522	1998	\$ 10,538.00
MAIN STREET	1" OL	0.80	4230	2008	\$ 105,492.00
OLD LANDING ROAD	1" OL	0.25	1270	1985	\$ 25,868.00
OLD PISCATAQUA ROAD	1" OL	0.27	1410	1985	\$ 29,917.00
SCOTLAND ROAD	1" OL	0.08	414	1996	\$ 8,257.00
SIMONS LANE	1" OL	0.43	2281	1996	\$ 48,050.00
STROUT LANE	1" OL	0.13	665	1998	\$ 11,186.00
SURREY LANE	1" OL	0.70	3696	1990	\$ 75,174.00
TOM HALL ROAD	1" OL	0.08	441	1996	\$ 4,450.00
WOOD ROAD	1" OL	0.16	861	1996	\$ 21,728.00
3.65 SUBTOTAL					\$ 415,453.00

2016-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
DURHAM POINT RD. (SOUTH)	RECLAIM + 3"	1.98	10480	1986	\$ 425,647.00
1.98 SUBTOTAL					\$ 425,647.00

2017-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
CANNEY ROAD	1" OL	0.73	3865	1999	\$ 81,900.00
COLONY COVE ROAD	1" OL	0.40	2111	2000	\$ 37,276.00
COWELL DRIVE	1" OL	0.16	840	1998	\$ 18,541.00
EDGERLY-GARRISON RD.	1" OL	0.38	2000	2000	\$ 44,148.00
GLASSFORD LANE	1" OL	0.09	475	1998	\$ 8,388.00
SANDY BROOK DRIVE (B)	1" OL	0.58	3067	1990	\$ 81,239.00
SAUER TERRACE	1" OL	0.06	326	1998	\$ 5,756.00
SCHOOLHOUSE LANE	1" OL	0.16	834	2001	\$ 17,671.00
SPINNEY LANE	1" OL	0.16	870	1999	\$ 15,362.00
WATSON ROAD	1" OL	0.26	1380	2001	\$ 29,240.00
NOBEL K. PETERSON DR.	1" OL	0.19	1000	1999	\$ 22,500.00
3.17 SUBTOTAL					\$ 382,017.00

2018-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
ELLISON LANE	1" OL	0.10	539	2001	\$ 9,742.00
HAMEL DRIVE	1" OL	0.11	579	2001	\$ 12,558.00
PACKERS FALLS ROAD	1" OL	3.09	16320	2001	\$ 353,905.00
PALMER DRIVE	1" OL	0.20	1051	2001	\$ 22,796.00
YORK DRIVE	1" OL	0.23	1213	2001	\$ 26,311.00
3.73 SUBTOTAL					\$ 425,402.00

2019-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BENNETT ROAD	1" OL	1.69	8,923	2002	\$ 199,414.00
MILL ROAD	1" OL	2.48	13,070	2002	\$ 290,043.00
4.17 SUBTOTAL					\$ 489,457.00

2020-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
CARRIAGE WAY	1" OL	0.23	1214	2003	\$ 27,548.00
MEADOW ROAD	1" OL	0.16	855	2003	\$ 19,401.00
ROSEMARY LANE	1" OL	0.10	547	2003	\$ 12,412.00
SANDY BROOK DRIVE (A)	1" OL	0.80	4198	2005	\$ 98,762.00
SULLIVAN FALLS ROAD	1" OL	0.28	1475	2003	\$ 33,470.00
TECHNOLOGY DRIVE	1" OL	0.39	2057	2003	\$ 46,676.00
THOMPSON LANE	1" OL	0.29	1532	2006	\$ 40,852.00
WORTHORN ROAD	1" OL	0.30	2048	2004	\$ 47,551.00
2.64 SUBTOTAL					\$ 326,672.00

2021-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BARLETT ROAD	1" OL	0.26	1381	2004	\$ 32,029.00
EDGEWOOD ROAD	1" OL	0.85	4510	2002	\$ 104,598.00
FOGG DRIVE	1" OL	0.39	2040	2004	\$ 47,312.00
FOGG LANE	1" OL	0.04	211	2004	\$ 4,892.00
MERSERVE ROAD	1" OL	0.33	1716	2004	\$ 39,789.00
MOHARINET WAY	1" OL	0.10	525	2004	\$ 12,174.00
RIVERVIEW ROAD	1" OL	0.56	2956	2004	\$ 68,556.00
RIVERVIEW COURT	1" OL	0.07	369	2004	\$ 8,556.00
WOODRIDGE ROAD	1" OL	0.89	4700	2004	\$ 109,128.00
3.49 SUBTOTAL					\$ 427,034.00

2022-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
COLD SPRING ROAD	1" OL	0.28	1500	2005	\$ 35,288.00
CONSTABLE ROAD	1" OL	0.15	797	2005	\$ 16,749.00
CORSON LANE	1" OL	0.08	400	2005	\$ 8,624.00
FALLS WAY	1" OL	0.21	1094	2005	\$ 25,737.00
FOSS FARM ROAD	1" OL	0.63	3334	2005	\$ 98,044.00
HEMLOCK WAY	1" OL	0.19	1006	2005	\$ 23,666.00
LONGMARSH ROAD	1" OL	0.57	3009	2005	\$ 70,790.00
MAPLE STREET	1" OL	0.06	316	2005	\$ 7,432.00
ORCHARD DRIVE	1" OL	0.51	2698	2005	\$ 63,473.00
RYAN WAY	1" OL	0.17	890	2005	\$ 20,938.00
STEVENS WAY	1" OL	0.30	1566	2005.00	\$ 36,809.00
3.15 SUBTOTAL					\$ 409,630.00

2023-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
ADAMS CIRCLE	1" OL	0.16	844	2006	\$ 18,129.00
CHESLEY DRIVE	1" OL	0.09	485	2006	\$ 8,333.00
FACULTY ROAD	1" OL	0.31	1635	2006	\$ 28,098.00
FAIRCHILD DRIVE	1" OL	0.22	1161	2006	\$ 24,940.00
KELSEY DRIVE	1" OL	0.30	1585	2006	\$ 27,239.00
LAUREL LANE	1" OL	0.53	2820	2006	\$ 86,789.00
MEADER LANE	1" OL	0.14	750	2006	\$ 12,889.00
PARK COURT	1" OL	0.10	526	2006	\$ 9,037.00
ROCKY LANE	1" OL	0.11	581	2006	\$ 9,984.00
ROSS ROAD	1" OL	1.12	5914	2006	\$ 97,402.00
STAGECOACH ROAD	1" OL	0.35	1843	2006	\$ 59,054.00
TALL PINES ROAD	1" OL	0.42	2218	2006	\$ 56,822.00
3.85 SUBTOTAL					\$ 438,516.00

2024-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BRITTON LANE	1" OL	0.13	650	2009	\$ 12,140.00
BURNHAM AVENUE	1" OL	0.19	1020	2007	\$ 35,713.00
DURHAM PT RD. (WEST)	1" OL	1.98	10400	2007	\$ 173,527.00
SPRUCE WOOD LANE	1" OL	0.12	545	2005	\$ 11,879.00
2.42 SUBTOTAL					\$ 233,259.00

2025-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
AMBLER WAY	1" OL	0.45	2390	2008	\$ 21,213.00
DEER MEADOW ROAD	1" OL	1.00	5270	2008	\$ 38,932.00
FOX HILL ROAD	1" OL	0.36	1906	2008	\$ 74,322.00
GERRISH DRIVE	1" OL	0.20	1054	2008	\$ 37,091.00
LANGLEY ROAD	1" OL	0.61	3226	2008	\$ 108,918.00
MORGAN WAY	1" OL	0.25	1320	2008	\$ 21,916.00
TIRRELL PLACE	1" OL	0.14	739	2008	\$ 12,658.00
WILLIAMS WAY	1" OL	0.26	1336	2008	\$ 22,476.00
2.81 SUBTOTAL					\$ 337,526.00

2026-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
MADBURY ROAD	1" OL	1.31	6900	2009	\$ 286,000.00
1.31 SUBTOTAL					\$ 286,000.00

2027-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	YEAR TREATMENT	COST
BACK RIVER ROAD	1" OL	0.65	3440	2011	\$ 119,418.00
MILL POND ROAD	1" OL	0.53	2809	2010	\$ 99,277.00
STRAFFORD AVENUE	1" OL	0.34	1800	2010	\$ 49,782.00
WEDNESDAY HILL ROAD	RECLAIM + 3"	0.45	2382	2010	\$ 115,190.00
1.97 SUBTOTAL					\$ 383,667.00

2028-PAVEMENT PLAN

ROAD NAME	TREATMENT TYPE	MILEAGE	DISTANCE (FEET)	LAST TREATMENT	COST
BUCKS HILL ROAD	1" OL	0.58	3062	2011	\$ 95,535.00
CORMORANT CIRCLE	1" OL	0.12	613	2011	\$ 16,182.00
CROGHAN LANE	1" OL	0.15	797	2011	\$ 20,720.00
DAISEY DRIVE	1" OL	0.08	436	2011	\$ 12,554.00
DAVIS AVENUE	1" OL	0.27	1415	2011	\$ 39,134.00
EMERSON ROAD	1" OL	0.58	3062	2011	\$ 69,931.00
JENKINS COURT	1" OL	0.07	360	2011	\$ 10,366.00
PARTRIDGEBERRY LANE	1" OL	0.17	876	2011	\$ 25,229.00
RAZORBILL CIRCLE	1" OL	0.08	415	2011	\$ 11,951.00
SHEARWATER STREET	1" OL	0.41	2150	2011	\$ 61,920.00
SUMAC LANE	1" OL	0.51	2709	2011	\$ 84,521.00
WOODMAN ROAD	1" OL	0.22	1178	2011	\$ 35,280.00
7.18 SUBTOTAL					\$ 483,333.00

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Roadway Sweeper	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated	X									
Division	Operations		Council Goal	#7									
Location	DPW Facility		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace 2002 Elgin Pelican Roadway Mobile Sweeper. The current equipment program calls for the replacement of this equipment every ten years or sooner depending on wear and tear. This equipment operates on a daily basis including every Sunday.

RATIONALE: (Cost/Benefit Analysis)

The DPW sweeps urban area streets frequently during the Spring, Summer and Fall seasons. The DPW sweeps downtown streets 2-3 times per week and all streets twice per year. The sweeper is also used to clean up parking lots, winter sand, storm damage, and after special events. In addition the new Durham Storm Water II Permit from the USEPA requires the Town to sweep its urban zones on a documented regular basis to decrease the amount of debris collections in our storm water system from the run off along Town streets.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The department will be trading in the old unit. No impact to other departments foreseen, future costs for maintenance will rise without replacement. DPW chooses to buy this simple type of sweeper, most sweepers have many more "bells & whistles" such as a rejuvenated air system.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		175,000										175,000
TOTAL			0	0	0	0	0	0	0	0	0	175,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		170,000										170,000
Federal												0
State												0
UNH												0
Trade In		5,000										5,000
Other												0
TOTAL		175,000	0	0	0	0	0	0	0	0	0	175,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Dump Trucks 33,400 GVW	N/A	Mandated	X	X	X	X	X			X		
Department Public Works		Council Goal										
Division Operations		Dept. Goal										
Location DPW Facility												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

We will be purchasing a 33,400 LB GVW (Gross Vehicle Weight) dump truck with flow body, side wing and front plow. This will replace Truck #18, the current 1999 Ford Sterling dump truck with a new more cost efficient vehicle. Truck #18 was originally scheduled to be replaced in 2011, but was moved out in the schedule to 2012. Unfortunately, due to the delay, the price of materials (metals) has increased substantially, contributing to the higher price as budgeted today.

RATIONALE: (Cost/Benefit Analysis)

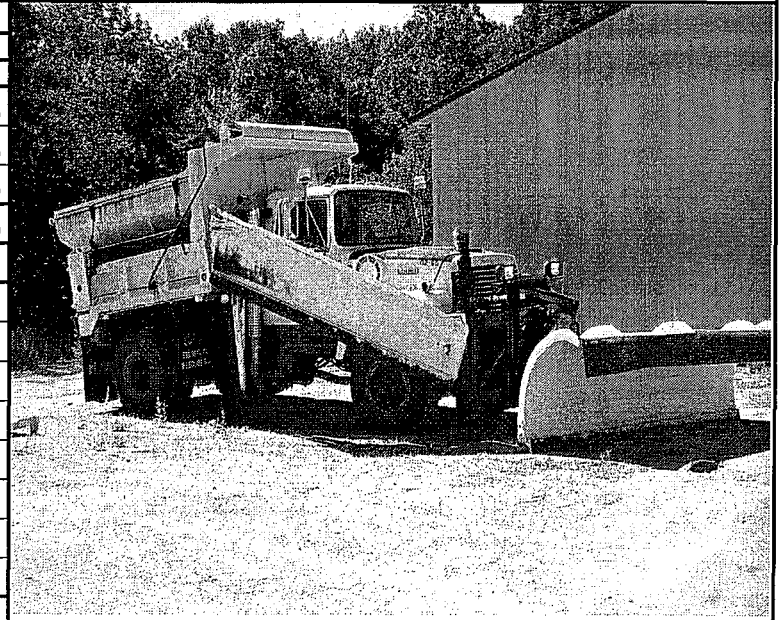
Public Works has six 33,400 LB GVW dump trucks that are placed on a 10-12 year replacement schedule. These dump trucks operate up to 8 hours per day 4- 5 days a week and comprise the front line snow removal equipment for all Town roads. The Town completes all of its snow removal operations in house with this equipment. In 2012 we will trade truck #18 which is a 1999 Ford Sterling. In 2013 we will trade truck #7 which is a 2000 International. In 2014 we will trade truck #1 which is a 2001 International. In 2015 we will trade truck #14 which is a 2002 Ford Sterling. In 2016 we will trade truck #31 which is a 2003 Ford Sterling. Also in 2019 we will trade truck #2 which is a 2007 Ford Sterling.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

New Equipment= Less breakdown and lesser repair costs. The Town has six (6) dump trucks and does all of its snow plowing in house. An industry study of municipal dump trucks revealed a twelve (12) year life expectancy for these vehicles. By having a scheduled replacement program, the operating budget will see relief in the form of : (1) Improvement of procedures regarding safety and policies (2) Reduced personnel time to make large repairs (3) More efficient and expanded services.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		165,000	168,000	171,000	174,000	177,000			186,000			1,041,000
TOTAL		165,000	168,000	171,000	174,000	177,000	0	0	186,000	0	0	1,041,000
FUNDING:												
Operating Rev.												
Capital Reserve												
Bond		158,000	161,000	164,000	167,000	170,000			179,000			999,000
Federal												
State												
UNH												
Trade In		7,000	7,000	7,000	7,000	7,000			7,000			42,000
Other												
TOTAL	0	165,000	168,000	171,000	174,000	177,000	0	0	186,000	0	0	1,041,000



TOWN OF DURHAM, NEW HAMPSHIRE

2011 - 2020 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Pettee Brook Lane Corridor Phase II	Chapter 3 Section 3.1	Mandated	X									
Department Public Works		Council Goal #7										
Division Operations		Dept. Goal X										
Location Pettee Brook Lane												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The second phase of this project will improve sidewalks and lighting along the Pettee Brook Lane corridor. Along with roadway modifications on the north side associated with the new parking program there will also be new bumpouts, a brick crosswalk, new sidewalk, bike lane, landscaping and rehabilitation of existing crosswalks. We also anticipate the installation of new parking kiosks.

RATIONALE: (Cost/Benefit Analysis)

Specifically this project includes sections of Pettee Brook Lane from Rosemary Lane to Madbury Road. Currently these areas do not conform with the standards set by the 1999 Main Street Enhancement Project and the 2000 Main Street/Route 108 and UNH Main Street sidewalk improvements. The intention of this project is to improve safety along this corridor through/ with improved street lighting and Americans with Disabilities Act detectable warning devices compliant. The street lighting component was completed in 2011 as part of phase I, retrofitting current decorative fixtures through use of the L.E.D energy efficiency program.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

There will be a small additional amount of traffic painting and snow plowing.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.	76,000	75,000										151,000
TOTAL	76,000	75,000	0	0	0	0	0	0	0	0	0	151,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond	76,000	75,000										151,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	76,000	75,000	0	0	0	0	0	0	0	0	0	151,000



TOWN OF DURHAM, NEW HAMPSHIRE

2010 - 2019 CIP Project Description

Project Name	Sidewalk Plow Tractor	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 20
Department	Public Works	N/A	Mandated	X									
Division	Operations		Council Goal #7										
Location	Various		Dept. Goal X										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replacement of the current 1989 Landini Sidewalk Snow tractor is needed. The new breed of sidewalk tractors are all multi-function with many attachment options such as a snow plow, snow blower, dump body (with sand/ salt spreader), flail boom mower, front broom and mower deck.

RATIONALE: (Cost/Benefit Analysis)

In 2011 the DPW requested bids for the replacement of the Landini Sidewalk Plow Tractor. \$69,040 was allocated in the hope of purchasing a used well conditioned tractor. No used bids were included in the bids received. Durham has 14 miles of sidewalks and has always been a walking community. The new sidewalk snow tractor would meet all snow removal, maintenance and de-icing needs. This tractor will also be used during the summer months for misc. projects such as sidewalk sweeping and roadside mowing.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

With a slow market for dependable used tractors DPW will look at a new sidewalk snow plow tractor with a new plow, blower, and sand/salt spreader.

Cost:

2011 Budget- \$69,040

2012 Budget- \$55,960

Total for new tractor: \$125,000

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.	69,040	55,960										125,000
TOTAL	69,040	55,960	0	0	0	0	0	0	0	0	0	125,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond	64,940	55,960										120,900
Federal												0
State												0
UNH												0
Trade In	4,100											4,100
Other												0
TOTAL	69,040	55,960	0	0	0	0	0	0	0	0	0	125,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Downtown Parking Lot Paving	N/A	Mandated	X									
Department Public Works		Council Goal										
Division Operations		Dept. Goal										
Location Tedeschi & Permit Parking Lot												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Asphalt shimming and wearing course applications at the Town leased UNH parking lot at the corner of Madbury Road and Pettee Brook Lane (Tedeschi Lot). Asphalt shimming and wearing course applications at the Permit Parking along Pettee Brook Lane (behind ATO building).

RATIONALE: (Cost/Benefit Analysis)

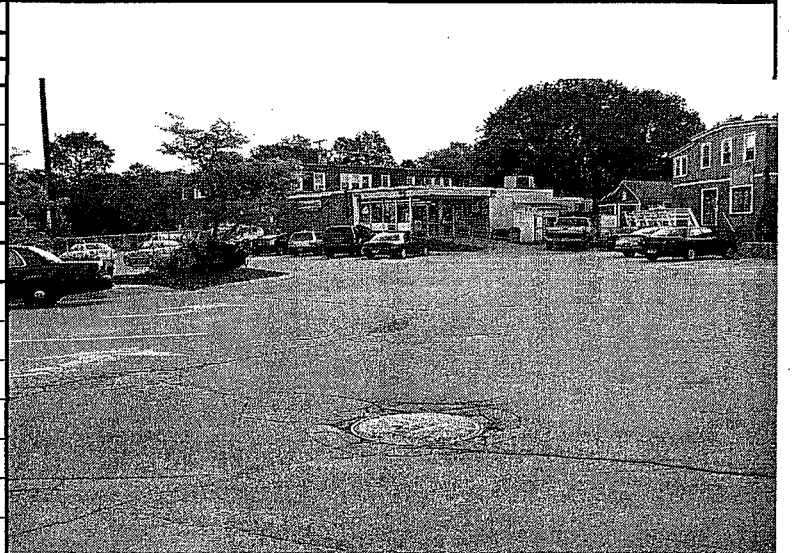
The existing pavement at these two parking lots is 20+ years old and showing severe signs of deterioration. This project will repair deteriorated portions of the lot by applying 1/2" shim, applying a 1" asphalt wearing course over the entire lot, applying traffic control marking per MUTCD standards and this project will be funded by the Parking Impact Fees Fund.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This project will actually help Town staff members to more efficiently maintain these lots (plowing & sweeping).

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		34,550										34,550
TOTAL	0	34,550	0	0	0	0	0	0	0	0	0	34,550
FUNDING:												
Operating Rev.												0
Capital Reserve		34,550										34,550
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	34,550	0	0	0	0	0	0	0	0	0	34,550



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Edgewood Road Sidewalk	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated	X									
Division	Operations		Council Goal #7										
Location	Edgewood Road		Dept. Goal X										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace existing sidewalk along Edgewood Road that is deteriorating and does not meet ADA standards. This sidewalk is one the most travelled walkways in Durham in terms of daily use.

RATIONALE: (Cost/Benefit Analysis)

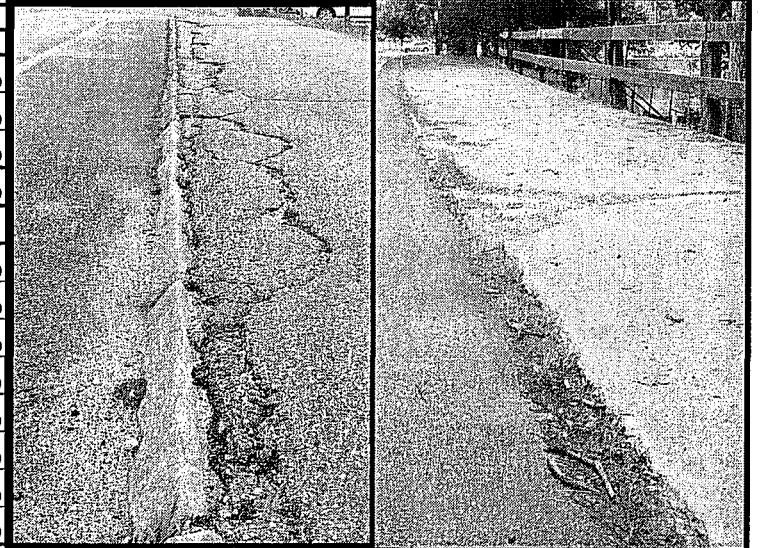
The Edgewood Road sidewalk from Main Street to Madbury Road has multiple layers and levels of asphalt, various heights of granite curbing, poor drainage buffers and deteriorating concrete. Public Works would reuse/recycle all the granite curbing and apply new asphalt surface. This new sidewalk has a life expectancy of 25 years.

- Curb re-set- 2100 ft. @ \$8.00 per ft. = \$16,800
- Crushed gravel/ loam & seed- \$690
- Pave sidewalk- (2100 ft. x 5 ft.) 70 tons @100.00 per ton = \$7,000
- Handwork/ curb patch- (2100 ft. x 1 ft.) 20 tons @ \$140.00 per ton = \$2,800
- Removal/ equipment rental- 1 day @ \$1,600/day = \$1,600
- Total = \$28,890

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		28,890										28,890
TOTAL	0	28,890	0	0	0	0	0	0	0	0	0	28,890
FUNDING:												
Operating Rev.		28,890										28,890
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	28,890	0	0	0	0	0	0	0	0	0	28,890



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 20
Main Street Railroad Bridge	N/A	Mandated	X									
Department Public Works		Council Goal										
Division Operations		Dept. Goal										
Location Main Street												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

This project was moved from 2011 to 2012 due to budget cuts. Project includes initial engineering for structural deficiencies of the Main Street Railroad bridge.

RATIONALE: (Cost/Benefit Analysis)

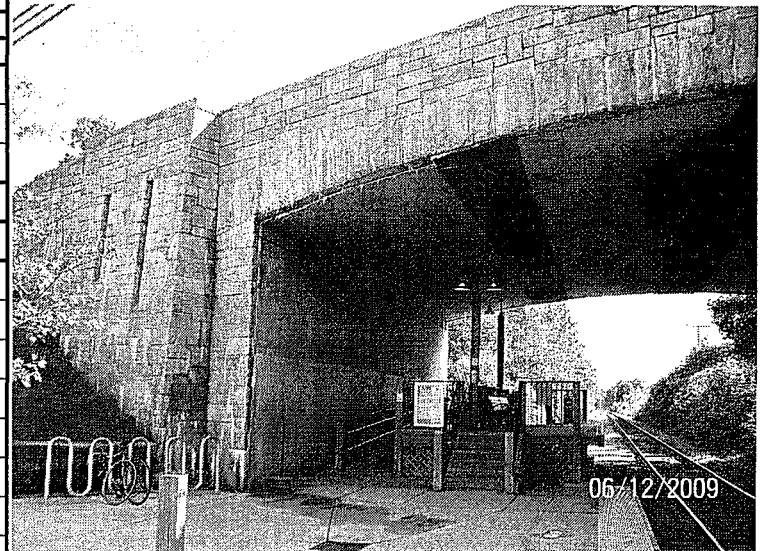
This bridge is showing signs of minor deterioration in both the steel under carriage and masonry stone work.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on operating budget.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design		19,500										19,500
Purch/Const.												0
TOTAL	0	19,500	0	0	0	0	0	0	0	0	0	19,500
FUNDING:												
Operating Rev.		19,500										19,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	19,500	0	0	0	0	0	0	0	0	0	19,500



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Department	Division	Location	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Bennett Road Culvert	Public Works	Operations	Bennett Road	N/A	Mandated Council Goal Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Engineering to eliminate the flooding along Bennett Road near the LaRoche Farm was funded in 2011. In 2012 one potential construction option that might be acceptable once the preliminary engineering has been completed is to install three 60" culverts to relieve flooding conditions along LaRoche Brook on Bennett Road, as well as the installation of two 60" concrete culverts downstream of Bennett Road on the LaRoche Farm. In addition this project will likely raise the grade of 175 feet of Bennett Road. The estimate for this project was based on the above described construction option.

RATIONALE: (Cost/Benefit Analysis)

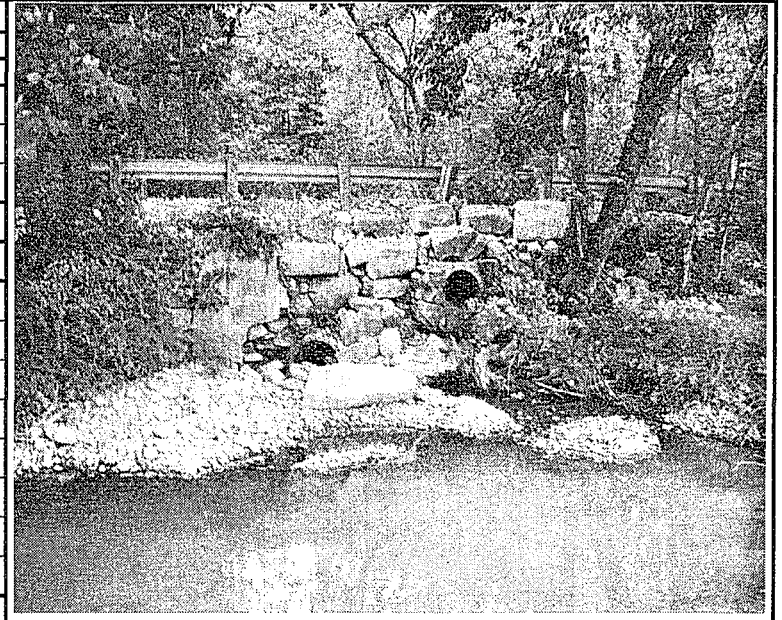
The DPW has been working with the NHDOT to correct flooding along Route 108 (Newmarket Road). The State is currently developing plans for a new 70 foot Long Bridge Crossing at Hamel Brook. The Bennett Road culvert project will help with stranded residents on Cold Spring Road and Bennett Road. Currently there are two 36" concrete culverts which under 5"- 6" of stormwater conditions do not flow enough water.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The budget should be less affected by reducing the amount of emergency triggered staff time and material upon completion of this project. Preliminary engineering is estimated at \$68,000. Construction for this project is estimated at \$775,000. DPW has applied for FEMA Mitigation Funding through the Department of Emergency Management. If accepted this program can contributed up to 75% reimbursement. **With the FEMA Mitigation Program the Town must finance and complete engineering plans for FEMA review before acceptance by FEMA.**

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design	43,000	25,000										68,000
Purch/Const.		775,000										775,000
TOTAL	43,000	800,000		0	0	0	0	0	0	0	0	843,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond	8,600	160,000										168,600
Federal	34,400	640,000										674,400
State												0
UNH												0
Trade In												0
Other												0
TOTAL	43,000	800,000		0	0	0	0	0	0	0	0	843,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Longmarsh Road Culvert Engineering	N/A	Mandated	X									
Department Public Works		Council Goal										
Division Operations		Dept. Goal										
Location Longmarsh Road												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Engineering to eliminate flooding along Longmarsh Road near the Newmarket Road intersection. Potential construction options that might be acceptable once the preliminary engineering has been completed include the installation of either a 36 foot long bridge or five 60" concrete culverts on Longmarsh Road. This project will also raise the grade along 200 feet of Longmarsh Road by 12"- 15". The estimate for this project was based on the above described construction options.

RATIONALE: (Cost/Benefit Analysis)

Currently there are two 48" culverts in this location. This area typically floods over Longmarsh Road at 6" of stormwater, resulting in the closure to one of only two entrances/exits to the Sunnyside Drive & Sandy Brook Drive neighborhoods. This closure increases traffic within the neighborhoods and congestion at the remaining entrance/exit. This project is part of the Laroche Brook and Hamel Brook Flood Mitigation Program.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This project will eliminate hours of staff time when it is completed. DPW has applied for FEMA Mitigation Funding through the Department of Emergency Management . If accepted this program can contributed up to 75% reimbursement. **With the FEMA Mitigation Program the Town must finance and complete engineering plans for FEMA review before acceptance by FEMA.**

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design		51,000										51,000
Purch/Const.			765,000									765,000
TOTAL	0	51,000	765,000	0	0	0	0	0	0	0	0	816,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		12,750	153,000									165,750
Federal		38,250	612,000									650,250
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	51,000	765,000	0	0	0	0	0	0	0	0	816,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Crommets Creek Bridge	State Red List	Mandated										
Department Public Works		Council Goal	X	X								
Division Operations		Dept. Goal										
Location Durham Point Road/ Bay Road												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

We will be making repairs to the Crommet's Creek Bridge, which will improve the safety of this structure and increase the load limit. Currently this bridge is on the NH DOT Red List of deficient bridges in N.H.

RATIONALE: (Cost/Benefit Analysis)

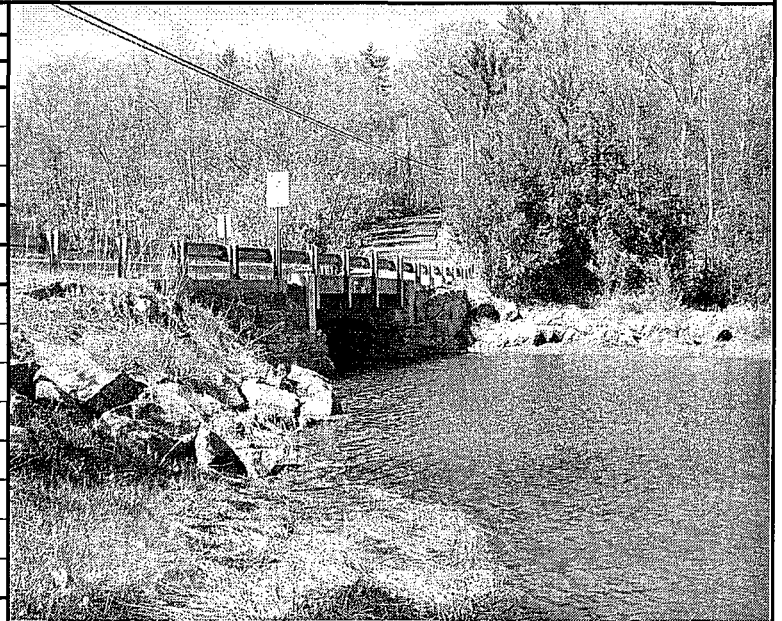
Crommet's Creek Bridge, located on Durham Point Road/Bay Road, is a narrow (21') single span structure with poor approach alignment in both directions. Because of its 15 ton posted load limit (on red list), age, and increasing usage, repair is recommended. The Department recommends a modified repair to strengthen the load limit. However, no realignment or reconfiguration of present bridge will be done. This might be eligible for 80% Federal/State funding via Bridge Aid Program. Construction estimate will likely change following preliminary engineering; additional funds may be required. Recommend maintaining the existing bridge "appearance" to fit in with the rural setting. Durham Public Works has recommended engineering in 2013 and construction in 2014.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No operational impact.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design		49,000										49,000
Purch/Const.			359,000									359,000
TOTAL	0	0	45,000	0	0	0	0	0	0	0	0	408,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		49,000	359,000									408,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	49,000	359,000	0	0	0	0	0	0	0	0	408,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Culvert & Outfall Improvements Program	Chapter 4 Section 4.7	Mandated										
Department DPW		Council Goal	X	X	X	X	X	X	X	X	X	
Division Engineering		Dept. Goal										
Location Varies												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Design and construct new culverts and nearby outfalls on Coe Drive at Little Hale Brook crossing (2011-12), on Oyster River Road near Garden Lane (2012-13), on Longmarsh Road at Longmarsh crossing (2013-14). Continuation of undefined culvert and outfall repair/replacement projects are carried forward beyond 2015. These projects are assumed to include some degree of stream bank restoration and possible off-site erosion control measures.

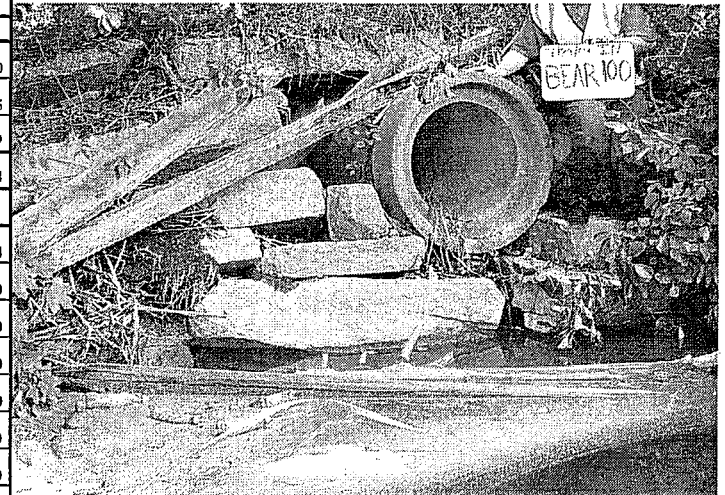
RATIONALE: (Cost/Benefit Analysis)

These culverts and outfalls are in serious disrepair and/or undersized which have required numerous repeat maintenance efforts and cause impact to nearby habitat from erosion and sedimentation.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The overall impact to the operating budget is assumed to be minimal since it will result in less repeat repairs and reduced unanticipated maintenance costs.

FINANCIAL PLAN												
	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design	35,000	43,000	45,520	49,060	49,515	44,251	43,990	44,555	44,114	43,750		442,755
Purch/Const.		75,000	46,700	90,000	100,000	48,445	51,887	47,800	45,000	53,457		558,289
TOTAL	35,000	118,000	92,220	139,060	149,515	92,696	95,877	92,355	89,114	97,207		1,001,044
FUNDING:												
Operating Rev.	35,000	118,000	92,220	139,060	149,515	92,696	95,877	92,355	89,114	97,207		1,001,044
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	35,000	118,000	92,220	139,060	149,515	92,696	95,877	92,355	89,114	97,207	0	1,001,044



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Stormwater Management System CIP	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	Chapter 4 Section 4.7	Mandated X	X	X	X	X	X	X	X	X	X	
Division	Engineering		Council Goal										
Location	Varies		Dept. Goal X										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

In 2009 the DPW developed a Stormwater Management System Capital Improvement Plan and implemented a program that includes monitoring, repairs, and improvement projects according to a prioritized project list based on critical importance and need. This work would be typically done using partly in-house management and partly design support from consultants and contractors.

RATIONALE: (Cost/Benefit Analysis)

A Stormwater System CIP is an essential planning step for compliance with the EPA Phase II Stormwater regulations for Small MS4 permitted communities like the Town of Durham. The new draft permit requires a condition evaluation of the entire MS4 system and implementation of a plan to correct deficiencies. 2012 projects include Mill Pond Road & Coe Drive.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The overall impact to the operating budget is assumed to be minimal since it is a planning tool to help reduce unanticipated maintenance costs.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design		10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000		90,000
Purch/Const.		48,934	50,000	47,400	46,343	49,656	45,223	48,120	47,060			382,736
TOTAL		58,934	60,000	57,400	56,343	59,656	55,223	58,120	57,060	10,000		472,736
FUNDING:												
Operating Rev.		58,934	60,000	57,400	56,343	59,656	55,223	58,120	57,060	10,000		472,736
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL		58,934	60,000	57,400	56,343	59,656	55,223	58,120	57,060	10,000	0	472,736



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Coe Drive Sidewalk	Chapter 3 Section 3.1	Mandated		X								
Department Public Works		Council Goal #7										
Division Operations		Dept. Goal X										
Location Coe Drive												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replacement of this 1977 3,695 foot long, 5 foot wide bituminous asphalt sidewalk and concrete curbing. This sidewalk links the Oyster River Middle School to the Oyster River High School.

RATIONALE: (Cost/Benefit Analysis)

The deteriorated, 30+ year old concrete curbed sidewalk along Coe Drive needs replacing. The existing curb and sidewalk will be replaced with Bituminous Asphalt and will include ADA compliant tip downs. The completion of this project is vital to the start of the Coe Drive Roadway resurfacing scheduled for 2013.

New asphalt curbing @ \$11/foot X 3,695 Feet = \$40,645

- Crushed gravel/ loam & seed = \$1,360

- Pave sidewalk 120 tons @ \$110/Ton = \$13,200

- Handwork/ curb patch 40 ton @ \$140/ton = \$5,600

Total = \$ 60,805

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other budgets. This will eliminate future maintenance costs for 25 years.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			60,800									60,800
TOTAL	0	0	60,800	0	0	0	0	0	0	0	0	60,800
FUNDING:												
Operating Rev.			60,800									60,800
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	60,800	0	0	0	0	0	0	0	0	60,800



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	1/2 Ton Pick-up	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated		X								
Division	Operations		Council Goal										
Location	DPW Facility		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace Assistant Director of Operations 2003 1/2 Ton pick-up truck. The truck fleet is currently on a 10 -12 year replacement program.

RATIONALE: (Cost/Benefit Analysis)

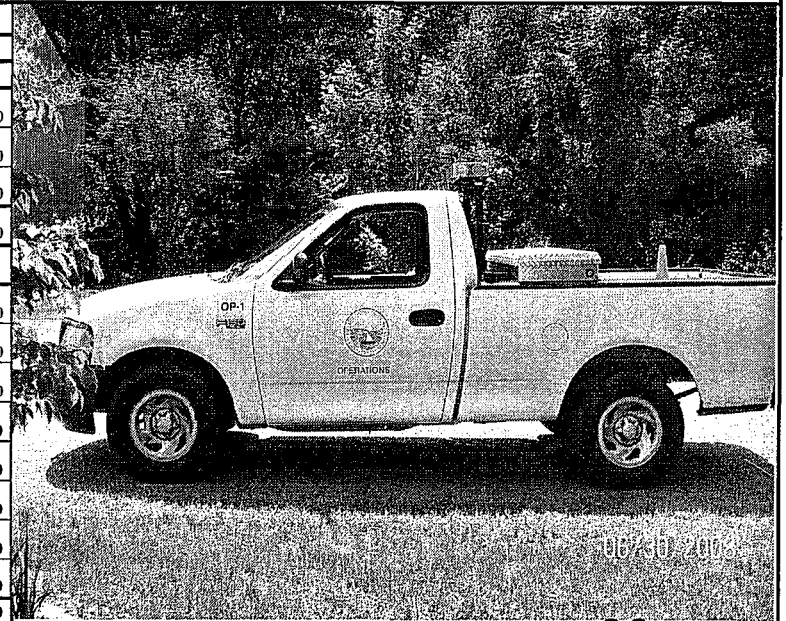
This vehicle is the Assistant Director of Operations daily means of transportation during all work hours not including travel between home and work. This employee supervises the Highway Division, Building & Grounds Division, Sanitation Division, and Water Division. This vehicle is currently a 2003 1/2 Ton Pick-up which averages 15,000 miles per year and is scheduled for replacement in 2013.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on other departments, routine maintenance costs per year.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			18,500									18,500
TOTAL	0	0	18,500		0	0	0	0	0	0	0	18,500
FUNDING:												
Operating Rev.			17,500									17,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In			1,000									1,000
Other												0
TOTAL	0	0	18,500		0	0	0	0	0	0	0	18,500



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Public Works- Buildings & Grounds Division																				
Police Department Handicap Entrance	1	32,000																		
3/4 Ton Pickup Truck Replacement	2	26,775																		
Old Landing Park Improvements					1	86,474														
One-Half Ton Pickup Truck Replacement							1	13,800												
One Ton Dump Truck Replacement									1	46,000										
PW - BLDGS & GRDS TOTALS		58,775		-		86,474		13,800		46,000		-		-		-		-		-

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Police Station Handicap Entrance	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated										
Division	Buildings & Grounds		Council Goal	X									
Location	Police Station		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Current Police Department is located at 86 Dover Road, and its handicapped accessibility infrastructure is in need of replacement to adhere to ADA standards.

RATIONALE: (Cost/Benefit Analysis)

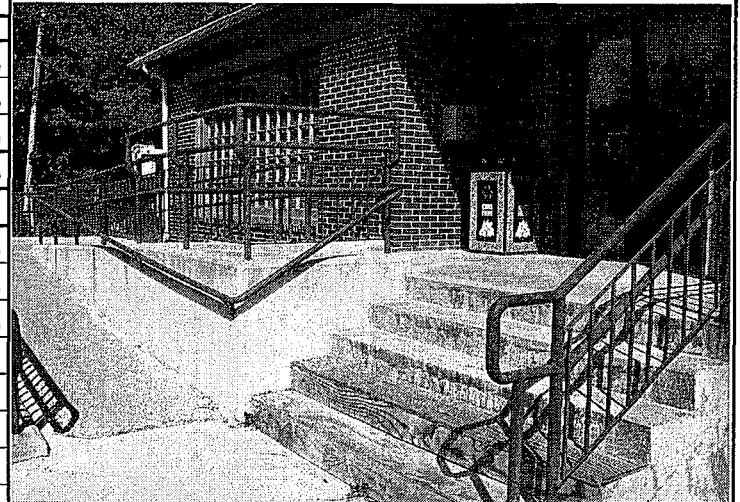
Replacement of the handicapped accessible ramp.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This repair will considerably lessen the amount of weekly maintenance required by buildings & grounds employees.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		32,000										32,000
TOTAL	0	32,000	0	0	0	0	0	0	0	0	0	32,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		32,000										32,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	32,000	0	0	0	0	0	0	0	0	0	32,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	3/4 Ton Pick-up Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated	X									
Division	Buildings & Grounds		Council Goal										
Location	DPW Facility		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace Buildings & Grounds Foreman's 2001 Ford 3/4 Ton Pick-up truck. The truck fleet is currently on a 10-12 year replacement program, this vehicle was originally scheduled for replacement in 2010 but was moved out to 2012 due to budget constraints.

RATIONALE: (Cost/Benefit Analysis)

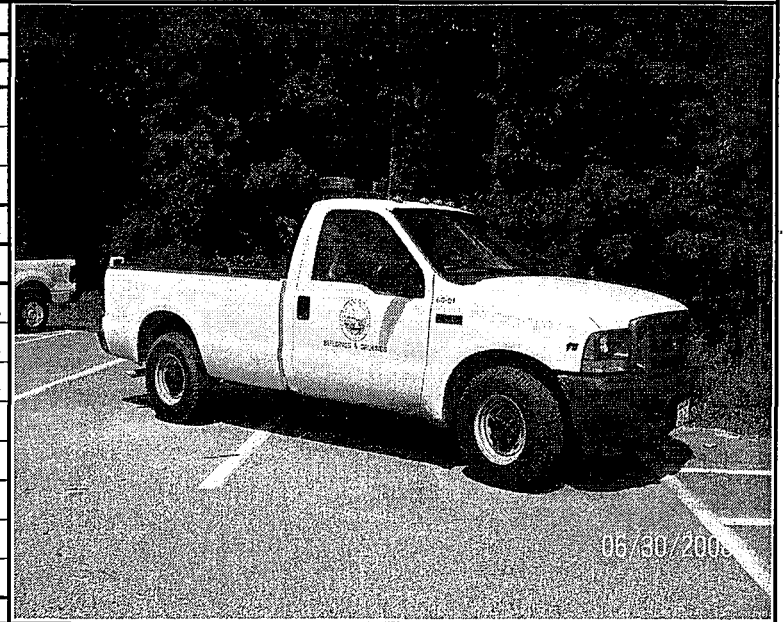
This vehicle is used by the Building & Grounds Foreman for daily transportation in his job of maintaining/ supervising each of the Town facilities and parcels of land. The Foreman is also the person in charge of all supplies, safety training, water equipment and the Town's carpenter and stone mason.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other Departments, routine maintenance costs per year.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		26,775										26,775
TOTAL	0	26,775	0	0	0	0	0	0	0	0	0	26,775
FUNDING:												
Operating Rev.		25,575										25,575
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In		1,200										1,200
Other												0
TOTAL	0	26,775	0	0	0	0	0	0	0	0	0	26,775



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Old Landing Park Improvements	N/A	Mandated										
Department Public Works		Council Goal			X							
Division Parks/Grounds		Dept. Goal										
Location Old Landing Road		X										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

We will be making improvements to the Old Landing Park, including repairing the dilapidated stone wall along the Oyster River, installing a new aluminum dock, rope railings, raising the old brick pump house and creating a larger lawn area.

RATIONALE: (Cost/Benefit Analysis)

The stone wall along the Oyster River bordering Old Landing Park has deteriorated and collapsed in a couple areas. Completing these repairs increases safety and makes the park more usable by residents.

-A local mason has estimated the repair at \$38,500

-Additional improvements include replacing the current wooden dock with an aluminum dock - \$22,043

-Replacing the railing along the shoreline/parking area - \$3,029

-Demolition of the pump house - \$12,000

-Rehabilitation of lawn area - \$10,902

OPERATING BUDGET IMPACT:

No impact on operating budget.

FINANCIAL PLAN

	PRIOR	FY12	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20	FY21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				86,474								86,474
TOTAL	0	0	0	86,474	0	0	0	0	0	0	0	86,474
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond				86,474								86,474
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	0	86,474	0	0	0	0	0	0	0	86,474



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
1/2 Ton Pick-up Replacement												
Department	Public Works	Mandated										
Division	Buildings & Grounds	Council Goal				X						
Location	DPW Facility	Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The town would like to replace the current Buildings & Grounds Division 2005 1/2 Ton Pick-up Truck. This truck is used daily by B & G employees for moving staff and equipment from site to site. The truck fleet is currently on a 10 -12 year replacement program.

RATIONALE: (Cost/Benefit Analysis)

This 1/2 Ton 2005 (Ford Ranger) Pick-up supports the Building & Grounds Division employee who completes the daily trash/debris pick-up at all parks and downtown areas (2 hours daily). The vehicle is also used by the same employee for maintenance of all Town owned properties (graveyards, cemeteries, etc.) and the landscaping of the downtown area and buildings. This vehicle will be purchased through the state bid process.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other department's budgets. Routine maintenance costs per year. DPW has previously downsized this vehicle in 2005 to obtain better gas mileage.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.					13,800							13,800
TOTAL	0	0	0	0	13,800		0	0	0	0	0	13,800
FUNDING:												
Operating Rev.					13,300							13,300
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In					500							500
Other												0
TOTAL	0	0	0	0	13,800		0	0	0	0	0	13,800



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	1 Ton Dump Truck Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated										
Division	Buildings & Grounds		Council Goal					X					
Location	DPW Facility		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

We will be replacing the current 2005 Ford 1-ton, Four Wheel Drive Dump Truck with a 2016 1-ton equipped with plowing and sand/salt spreading capabilities.

RATIONALE: (Cost/Benefit Analysis)

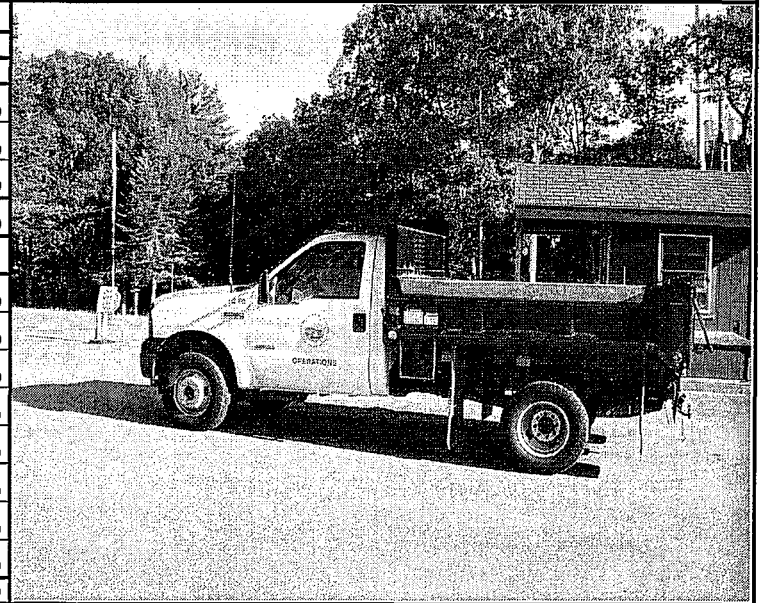
This vehicle will replace a 2006 Ford 1-ton Dump Truck and will be outfitted with a plow and sand/salt spreader. This truck is integral to daily operations and is the front-line piece of equipment for parks, cemeteries, buildings and grounds, and snow removal at all town facilities. This vehicle is the sole vehicle used during winter storms at such sites as the Police Station, Town Hall, Lee Well, Wagon Hill Farm, Transfer Station and various parking lots.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Optimum trade-in time is 10 years. Expected trade value is \$6,000. Tires, filters, hydraulics will be \$300/year included in the operating budget.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.						46,000						46,000
TOTAL	0	0	0	0	0	46,000		0	0	0	0	46,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond						40,000						40,000
Federal												0
State												0
UNH												0
Trade In						6,000						6,000
Other												0
TOTAL	0	0	0	0	0	46,000		0	0	0	0	46,000



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Public Works - Sanitation Division																				
Refuse Collection Vehicle Replacement					1	225,000														
Recycling Collection Vehicle Replacement							1	104,000												
PW - SANITATION TOTALS		-		-		225,000		104,000		-		-		-		-		-		-

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Refuse Collection Vehicle	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated										
Division	Sanitation		Council Goal			X							
Location	Transfer Station/Recycling Center		Dept. Goal			X							

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The DPW needs to immediately replace the current 2005 Refuse Collection Vehicle with a new front line curbside collection vehicle. The DPW has invested over \$50,000 in repairs to this vehicle over the past 6 years.

RATIONALE: (Cost/Benefit Analysis)

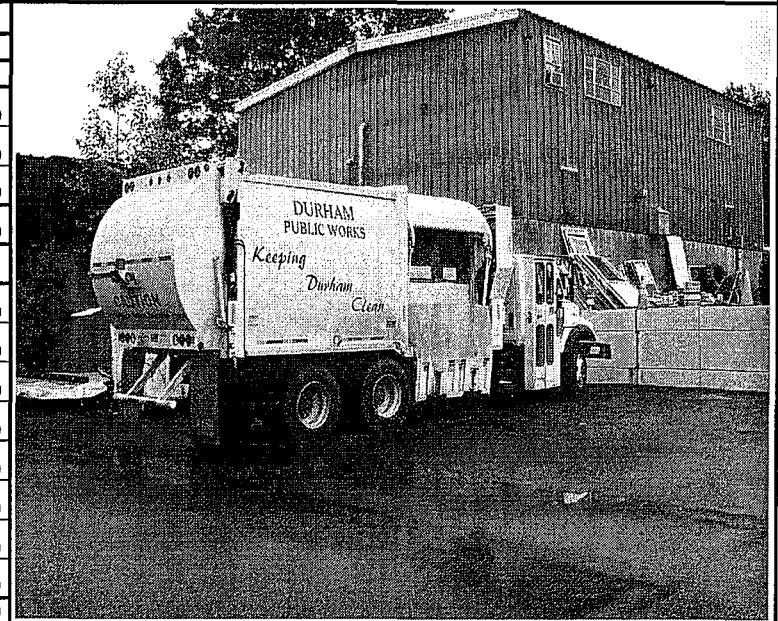
This new refuse collection vehicle will replace the 2005 International/Kahn refuse collection vehicle, as the front line collection truck. This vehicle currently runs 40+ hours per week and makes approx. 450 stops per day. The continuous wear and tear takes its toll on the vehicle. The department will be trading in the current back up, a 1997 Crane Carrier.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Normal maintenance items such as tires, brakes, batteries, motor oil, hydraulic oil, will impact the operating budget by \$3,000/ per year. In 2011 DPW bid out the refuse collection program which would have eliminated the need to replace this truck, however, bid results show a \$55,000 savings by keeping collection in house.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				225,000								225,000
TOTAL	0	0	0	225,000	0	0	0	0	0	0	0	225,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond				200,000								200,000
Federal												0
State												0
UNH												0
Trade In				5,000								5,000
Other												0
TOTAL	0	0	0	205,000	0	0	0	0	0	0	0	205,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Recycling Collection Vehicle	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated										
Division	Sanitation		Council Goal				X						
Location	Transfer Station/Recycling Center		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The Town would like to replace the current 2005 curbside recycling collection vehicle with a new, more efficient vehicle in 2015.

RATIONALE: (Cost/Benefit Analysis)

This Recycling Collection Vehicle will replace the 2005 International/Kahn recycling collection vehicle. This vehicle runs 50+ hours per week and makes approx. 2,200 stops per week. The continuous wear and tear takes a toll on the vehicle. This is the only recycling vehicle the Town owns.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Normal maintenance items such as filters, tires, brakes, lights, and motor oil will add approximately \$3,600 to operating budget.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.					104,000							104,000
TOTAL	0	0	0	0	104,000	0	0	0	0	0	0	104,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond					101,000							101,000
Federal												0
State												0
UNH												0
Trade In					3,000							3,000
Other												0
TOTAL	0	0	0	0	104,000	0	0	0	0	0	0	104,000



Water Fund Proposed Bond Schedule

PROJECT NAME	PROJECT YEAR	BOND LENGTH	TOTAL AMOUNT BONDED/ LEASED	ESTIMATED INTEREST COSTS	TOTAL ESTIMATED COST	2012 PRINCIPAL	2012 INTEREST	2013 PRINCIPAL	2013 INTEREST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2018 PRINCIPAL	2018 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST
Water Meter Upgrade	2012	10	\$334,090	\$54,369	\$388,459			\$34,090	\$10,719	\$35,000	\$9,000	\$35,000	\$7,950	\$35,000	\$6,900	\$35,000	\$5,850	\$35,000	\$4,800	\$35,000	\$3,750	\$30,000	\$2,700	\$30,000	\$1,800
Water Tank Painting	2013	10	\$750,000	\$135,755	\$885,755					\$75,000	\$26,068	\$75,000	\$21,938	\$75,000	\$19,500	\$75,000	\$17,063	\$75,000	\$14,625	\$75,000	\$12,188	\$75,000	\$9,750	\$75,000	\$7,313
Spruce Hole	2015	20	\$1,415,000	\$741,413	\$2,156,413									\$75,000	\$75,663	\$75,000	\$67,000	\$75,000	\$63,250	\$70,000	\$59,500	\$70,000	\$56,000	\$70,000	\$52,500
OUTSTANDING BONDS/LEASES/SRF LOANS																									
Outstanding Bonds thru 2002						\$34,699	\$9,964	\$34,699	\$8,662	\$34,699	\$7,274	\$32,740	\$5,886	\$32,740	\$4,536	\$23,509	\$3,144	\$23,509	\$2,116	\$23,506	\$1,058				
2006 Bond	2003-2006	20	\$545,468			\$26,026	\$15,247	\$26,026	\$14,241	\$27,291	\$13,240	\$27,291	\$12,175	\$27,291	\$11,112	\$24,841	\$10,020	\$24,841	\$9,027	\$24,841	\$8,033	\$24,841	\$7,039	\$24,841	\$6,045
2008 Bond	2007-2008	20	\$724,900			\$35,800	\$25,819	\$35,800	\$24,655	\$35,800	\$23,402	\$35,800	\$22,149	\$36,300	\$20,807	\$36,300	\$18,992	\$36,300	\$17,540	\$36,400	\$15,725	\$36,400	\$15,725	\$36,400	\$12,722
Lamprey River Transmission Main	2002	15 YRS	\$828,554			\$60,533	\$11,266	\$62,635	\$9,164	\$64,810	\$6,989	\$67,060	\$4,739	\$69,389	\$2,410	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTALS			\$4,598,013			\$157,058	\$62,296	\$193,250	\$67,440	\$272,600	\$95,973	\$272,891	\$74,837	\$350,720	\$140,928	\$269,650	\$122,069	\$269,650	\$111,358	\$264,747	\$100,254	\$236,241	\$91,214	\$236,241	\$80,379
						TOTAL 2012		TOTAL 2013		TOTAL 2014		TOTAL 2015		TOTAL 2016		TOTAL 2017		TOTAL 2018		TOTAL 2019		TOTAL 2019		TOTAL 2019	
						\$219,354		\$260,890		\$358,573		\$347,728		\$491,648		\$381,719		\$381,008		\$365,001		\$327,455		\$316,620	

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Water Fund																				
One Ton Utility Truck Replacement	1	37,500																		
Water Meter Upgrade	2	417,612																		
Beech Hill & Foss Farm Water Tank Reconditioning			1	750,000																
Spruce Hole Well Development							1	1,415,000												
TOTAL WATER FUND		\$455,112		\$750,000		\$0		\$1,415,000		\$0		\$0		\$0		\$0		\$0		\$0
Totals less projects identified below		\$455,112		\$750,000		\$0		\$0		\$0		\$0		\$0		\$0		\$0		\$0
Spruce Hole																				

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
1-Ton Utility Truck Replacement												
Department	Public Works	Mandated	X									
Division	Water	Council Goal										
Location	DPW Facility	Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replace the Water Division's 2002 Ford 1-ton utility truck.

RATIONALE: (Cost/Benefit Analysis)

The current vehicle is a 2002 and on a 10 -12 year replacement schedule. Current unit is the only service vehicle in the Water Division and will have approximately 200,000 miles in 2012. This vehicle is equipped with numerous tools and equipment, such as a generator and a 2 ton crane.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

According to the New England Water Works Association equipment replacement survey 2012 is the optimum time to replace this piece of equipment. We anticipate a \$4,500 trade in.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		37,500										37,500
TOTAL	0	37,500	0	0	0	0	0	0	0	0	0	37,500
FUNDING:												
Operating Rev.												0
Capital Reserve		33,000										33,000
Bond												0
Federal												0
State												0
UNH												0
Trade In		4,500										4,500
Other												0
TOTAL	0	37,500	0	0	0	0	0	0	0	0	0	37,500



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

		MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Project Name	Water Meter Upgrade	N/A	Mandated	X									
Department	Public Works		Council Goal										
Division	Water		Dept. Goal										
Location	Distribution System												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The intent of this project is to upgrade the meter reading system to a radio-read system to enable the Town to better account for customer water usage in the system and allow Durham to transition to quarterly billing of all customers (currently, the Town only bills twice a year). Currently, each meter is physically visited each time water meters are read. The radio read system will reduce the time required to read meters by allowing water use data to be electronically collected by simply driving through the neighborhood and the data is automatically collected on a hand held device from inside the vehicle. Not all meters will require replacement; most will only need to have the radio unit attached to the current metering equipment to transmit their data. All of the meters and equipment that are older than 15 years (approximately 40% of the system) will be replaced.

RATIONALE: (Cost/Benefit Analysis)

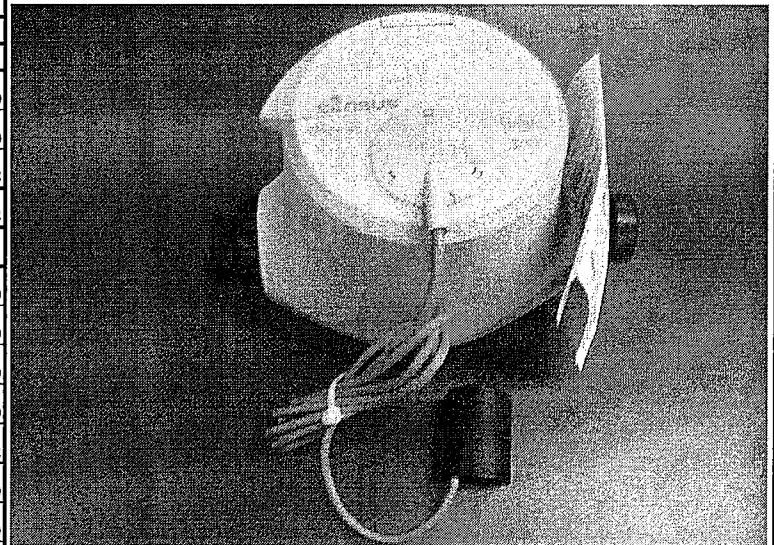
Reading meters at least quarterly is a requirement of New Hampshire's Water Conservation Rules (Env-WS 390) and will be necessary prior to the activation of the new Spruce Hole well. Additionally, the benefits of this system will allow the water system to better implement and enforce the provisions of the UNH/Durham Water System's Water Management Plan. This project ranked high enough on NHDES's funding list to qualify for a "Green Infrastructure" SRF loan and a 20% principal forgiveness grant in the amount of \$83,522.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The Durham Finance Office will benefit from having all the water use data provided in electronic format and at any frequency necessary.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		417,612										417,612
TOTAL	0	417,612	0	0	0	0	0	0	0	0	0	417,612
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		334,090										334,090
Federal												0
State		83,522										83,522
UNH												0
Trade In												0
Other												0
TOTAL	0	417,612	0	0	0	0	0	0	0	0	0	417,612



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Water Tank Painting	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated		X								
Division	Water		Council Goal										
Location	Foss Farm & Beech Hill		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Interior and exterior painting of the 3,000,000 gallon Foss Farm water storage tank and the interior and exterior of the 650,000 gallon Beech Hill water storage tank.

RATIONALE: (Cost/Benefit Analysis)

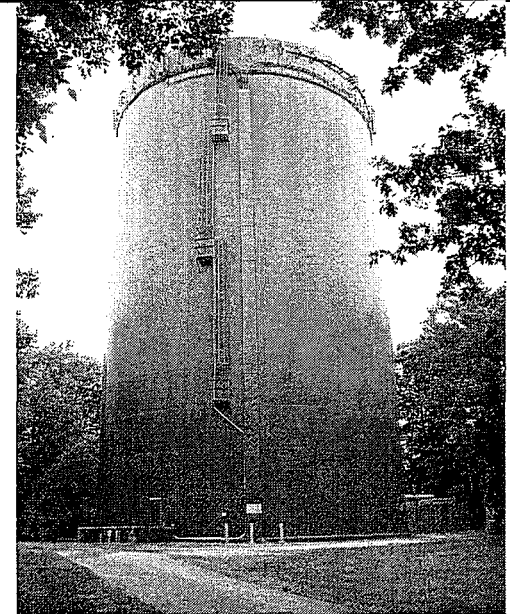
The interior of the Foss Farm tank has not been painted in 17 years and the exterior since 2002 and is showing wear and tear from the elements. The interior of the Beech Hill tank has not been painted in 25 years and the exterior since 2002 and is also beginning to show signs of wear and tear. The estimated costs to rehabilitate the Foss Farm and Beech Hill Tanks are \$450,000 and \$300,000 respectively. UNH will be deferring future maintenance on the 1,000,000 gal Edgewood Road Tank and will contribute 2/3 of the cost of painting the Foss Farm and Beech Hill Tanks.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on other departments.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			750,000									750,000
TOTAL	0	0	750,000	0	0	0	0	0	0	0	0	750,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond			250,000									250,000
Federal												0
State												0
UNH			500,000									500,000
Trade In												0
Other												0
TOTAL	0	0	750,000	0	0	0	0	0	0	0	0	750,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Spruce Hole Well Development	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	Chapter 7 pg 7.51	Mandated										
Division	Water		Council Goal				X						
Location	Packers Falls Road		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Final engineering and construction of a municipal well within the Spruce Hole Aquifer: Based on the preliminary engineering report, the most cost effective approach for connecting a new water source located within the Spruce Hole Aquifer includes utilizing the Lamprey River water main (a.k.a. Lamprey Hard Pipe). This would require sending the water from the new well to the UNH Water Treatment Plant, and at times transferring the water from the Lamprey River, via the capacity of the hard pipe, and discharging it into artificial recharge basins. Raw water from the Lamprey River would be filtered through the sediments of the aquifer and withdrawn by the proposed well as treated water. This cost savings approach reduced the estimated project cost by \$1.8 Million compared to the original estimate. The final design will determine the feasibility of this option.

RATIONALE: (Cost/Benefit Analysis)

The Town's Master Plan and 2004 Water Allocation Report calls for the development of the Spruce Hole Aquifer as the next water source for the Durham/UNH community. The demands on the water system at the times of dry/drought conditions lowers surface water supplies, and has the potential of creating an emergency condition for all customers on the water system. The final phase of construction would connect the well to the distribution system.

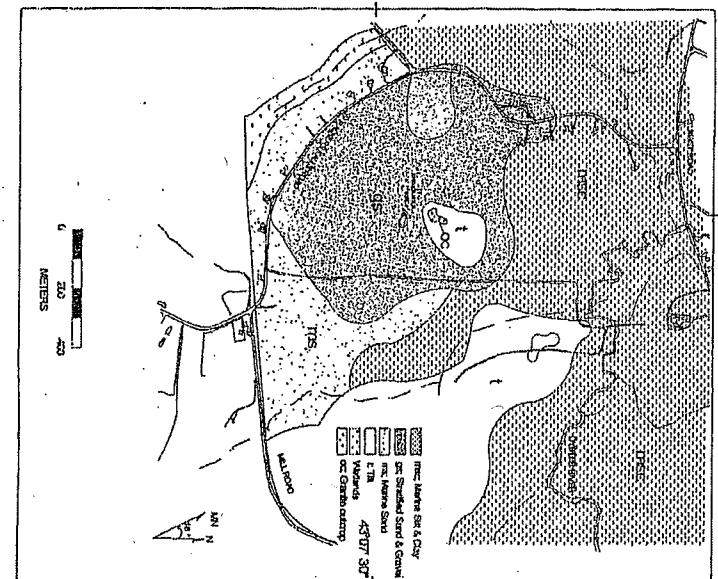
OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The project would be cost shared with UNH on a 1/3 Town 2/3 UNH basis. At this time future maintenance costs are undetermined, but existing Town staff is confident that we can handle the daily maintenance requirements of a new municipal well.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.					1,415,000							1,415,000
TOTAL	0	0	0	0	1,415,000	0	0	0	0	0	0	1,415,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond					471,662							471,662
Federal												0
State												0
UNH					943,338							943,338
Trade In												0
Other												0
TOTAL	0	0	0	0	1,415,000	0	0	0	0	0	0	1,415,000

Figure 8-2. Surficial Geologic Map at the Spruce Hole Formation (Kolef, 1989).



Sewer Fund Proposed Bond Schedule

PROJECT NAME	PROJECT YEAR	BOND LENGTH	TOTAL AMOUNT BONDED/LEASED	ESTIMATED INTEREST COSTS	TOTAL ESTIMATED COST	2012 PRINCIPAL	2012 INTEREST	2013 PRINCIPAL	2013 INTEREST	2014 PRINCIPAL	2014 INTEREST	2015 PRINCIPAL	2015 INTEREST	2016 PRINCIPAL	2016 INTEREST	2017 PRINCIPAL	2017 INTEREST	2018 PRINCIPAL	2018 INTEREST	2019 PRINCIPAL	2019 INTEREST	2020 PRINCIPAL	2020 INTEREST	2021 PRINCIPAL	2021 INTEREST
Old Concord Road Pump Station	2011	20	\$750,000	\$281,789	\$1,011,789			\$40,000	\$27,351	\$40,000	\$24,211	\$40,000	\$22,847	\$40,000	\$21,483	\$40,000	\$20,119	\$40,000	\$18,755	\$40,000	\$17,391	\$40,000	\$16,027	\$40,000	\$14,663
WWTP Phase III Upgrades	2012	20	\$1,500,000	\$634,167	\$2,134,167			\$75,000	\$64,167	\$75,000	\$57,000	\$75,000	\$54,000	\$75,000	\$51,000	\$75,000	\$48,000	\$75,000	\$45,000	\$75,000	\$42,000	\$75,000	\$39,000	\$75,000	\$36,000
College Brook Interceptor	2013	20	\$450,000	\$191,516	\$641,516					\$25,000	\$20,453	\$25,000	\$18,063	\$25,000	\$17,000	\$25,000	\$15,938	\$25,000	\$14,875	\$25,000	\$13,813	\$25,000	\$12,750	\$25,000	\$11,688
Sludge Dewatering Equipment	2013	20	\$2,500,000	\$1,123,003	\$3,623,003					\$125,000	\$113,628	\$125,000	\$100,938	\$125,000	\$95,625	\$125,000	\$90,313	\$125,000	\$85,000	\$125,000	\$79,688	\$125,000	\$74,375	\$125,000	\$69,063
Collection System Upgrades	2013	20	\$520,000	\$226,785	\$746,785					\$30,000	\$23,635	\$30,000	\$20,825	\$30,000	\$19,550	\$30,000	\$18,275	\$25,000	\$17,000	\$25,000	\$15,938	\$25,000	\$14,875	\$25,000	\$13,813
WWTP Phase III Upgrades	2014	30	\$10,000,000	\$9,923,681	\$18,923,681							\$335,000	\$614,931	\$335,000	\$555,738	\$335,000	\$536,475	\$335,000	\$517,213	\$335,000	\$497,950	\$335,000	\$478,688	\$335,000	\$459,425
18" Force Main Replacement	2014	20	\$2,200,000	\$1,046,375	\$3,246,375							\$110,000	\$105,875	\$110,000	\$94,050	\$110,000	\$89,100	\$110,000	\$84,150	\$110,000	\$79,200	\$110,000	\$74,250	\$110,000	\$69,300
Diesel Generator Replacement	2014	10	\$125,000	\$22,179	\$147,179							\$15,000	\$4,679	\$15,000	\$3,850	\$15,000	\$3,325	\$15,000	\$2,800	\$15,000	\$2,275	\$10,000	\$1,750	\$10,000	\$1,400
OUTSTANDING BONDS/LEASES/SRF LOANS																									
2002 Bond	2002	20	\$350,075			\$38,274	\$5,000	\$13,335	\$3,564	\$13,335	\$3,030	\$12,428	\$2,497	\$12,428	\$1,985	\$10,889	\$1,456	\$10,889	\$980	\$10,889	\$490				
2006 Bond	2006	20	\$325,469			\$14,276	\$9,085	\$14,276	\$8,534	\$15,060	\$7,985	\$15,060	\$7,400	\$15,060	\$6,815	\$15,401	\$6,213	\$15,401	\$5,597	\$15,401	\$4,981	\$15,401	\$4,365	\$15,401	\$3,749
2008 Bond	2007-2008	20	\$1,663,860			\$91,500	\$57,838	\$91,500	\$54,864	\$91,500	\$51,662	\$91,500	\$48,458	\$94,520	\$45,028	\$94,520	\$40,302	\$94,520	\$36,521	\$73,600	\$31,795	\$73,600	\$28,778	\$73,600	\$25,723
2010 Bond	2008-2010	20	\$756,000			\$45,000	\$28,763	\$45,000	\$27,413	\$40,000	\$26,093	\$40,000	\$24,463	\$40,000	\$23,263	\$40,000	\$22,063	\$40,000	\$20,863	\$40,000	\$18,863	\$40,000	\$16,863	\$35,000	\$14,863
ARRA Loan	2011	20	\$2,676,640			\$68,320	\$44,426	\$70,000	\$39,421	\$70,000	\$37,248	\$70,000	\$35,075	\$70,000	\$32,902	\$70,000	\$30,730	\$70,000	\$28,557	\$70,000	\$26,384	\$65,000	\$24,211	\$65,000	\$22,194
SRF Loan	2004	20	\$3,280,757			\$147,067	\$88,430	\$152,481	\$83,006	\$158,115	\$77,383	\$163,946	\$71,551	\$169,993	\$65,505	\$176,262	\$59,236	\$182,762	\$52,735	\$189,503	\$45,995	\$196,492	\$39,006	\$203,738	\$31,759
TOTALS			\$27,107,801			\$404,437	\$233,542	\$501,602	\$308,320	\$683,010	\$442,298	\$1,147,934	\$1,131,602	\$1,157,001	\$1,033,794	\$1,162,072	\$981,544	\$1,163,572	\$929,245	\$1,149,393	\$876,762	\$1,135,493	\$824,938	\$1,137,739	\$773,638
						TOTAL 2012		TOTAL 2013		TOTAL 2014		TOTAL 2015		TOTAL 2016		TOTAL 2017		TOTAL 2018		TOTAL 2018		TOTAL 2018		TOTAL 2018	
						\$637,979		\$809,922		\$1,125,308		\$2,279,536		\$2,190,795		\$2,143,616		\$2,092,817		\$2,026,155		\$1,960,431		\$1,911,377	

2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
Wastewater Fund																				
WWTP Phase III	1	1,500,000			1	10,000,000														
College Brook Interceptor Repair			1	450,000																
Sludge Dewatering Equipment Replacement			2	2,500,000																
Commercial Lawnmower Replacement			3	10,500																
Major Components Replacement			4	60,000	3	60,000														
Collection System Upgrades			5	520,000	4	50,000														
Diesel Generator Replacement					2	125,000														
18" Force Main Replacement					5	2,200,000														
3/4 Ton Pickup Truck Replacement													1	31,900	1	32,900				
TOTAL WASTEWATER FUND		\$1,500,000		\$3,540,500		\$12,435,000		\$0		\$0		\$0		\$31,900		\$32,900		\$0		\$0
Totals less projects identified below		\$0		\$1,040,500		\$235,000		\$0		\$0		\$0		\$31,900		\$32,900		\$0		\$0
		Phase III		Sludge Equip		Phase III														
						Force Main														

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
WWTP Phase III	Chapter 7 7.39	Mandated X	X		X							
Department Public Works		Council Goal										
Division Wastewater		Dept. Goal X										
Location Wastewater Treatment Plant												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

This project consists of two phases. Phase I of this project is engineering the design and treatment modifications to meet the new standards of our National Pollution Discharge Elimination System (NPDES). Phase II is the implementation of the modifications from Phase I to again meet the standards set by NPDES. The NPDES discharge permit is a federal permit which allows the Town of Durham Wastewater Treatment Facility to safely discharge effluent (treated) water into the Oyster River.

RATIONALE: (Cost/Benefit Analysis)

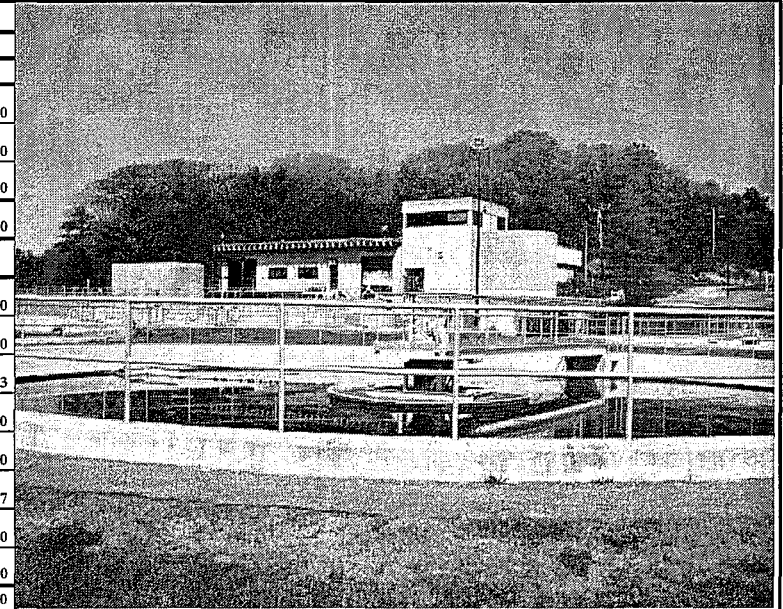
Permit renewal was due in 2005. EPA should have issued a new draft and final NPDES permit in 2004 for the 2005-2010 time frame. **As of the writing of this document the town has still not received a new National Pollution Discharge Elimination System (NPDES) Permit.** Stricter limits on Copper, Zinc, Nitrogen and Ammonia are expected. In the Town's updated Wastewater Facility Plan, completed in 2000, Wright-Pierce Engineering recommends extending the Wastewater Treatment Plant's discharge pipe further down the Oyster River Estuary to increase the dilution factor and meet the anticipated limits. Extending the outfall, advanced treatment, a regional outfall, and/or dredging may be solutions to meet the anticipated 2005-2010 permit. Currently DPW is in the process of updating a new Wastewater Facility Plan which will carry us from 2011- 2020. Upon arrival of the pending NHDES Permit, engineering & design is anticipated to start in 2011, construction is then anticipated to begin in 2013.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Funding will come from the joint Town of Durham and UNH Capital Reserve Fund, bonding and possible assistance by the State Revolving Loan Fund offered by the State of New Hampshire.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.		1,500,000		10,000,000								11,500,000
TOTAL	0	1,500,000	0	10,000,000	0	0	0	0	0	0	0	11,500,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond		500,000		3,333,333								3,833,333
Federal												0
State												0
UNH		1,000,000		6,666,667								7,666,667
Trade In												0
Other												0
TOTAL	0	1,500,000	0	10,000,000	0	0	0	0	0	0	0	11,500,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
College Brook Interceptor												
Department Public Works	N/A	Mandated X		X								
Division Wastewater		Council Goal										
Location College Brook Interceptor		Dept. Goal X										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Repair 8" College Brook Interceptor.

RATIONALE: (Cost/Benefit Analysis)

The current College Brook Interceptor is an old 8" 1,645 ft clay pipe with cracks and tree root problems. This line runs along College Brook from Rudman pump station to the Memorial Union Building and is in a very environmentally sensitive area. Due to the location non traditional methods such as Directional Boring should be explored vs. traditional open trench methods. UNH will participate monetarily with 66% of this upgrade.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

This should correct both collection and environmental issues in this sensitive corridor, which will reduce staff time maintaining this collection line.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design			50,000									50,000
Purch/Const.			400,000									400,000
TOTAL	0	0	450,000	0	0	0	0	0	0	0	0	450,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond			150,000									150,000
Federal												0
State												0
UNH			300,000									300,000
Trade In												0
Other												0
TOTAL	0	0	450,000	0	0	0	0	0	0	0	0	450,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Sludge Dewatering Equipment	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated	X	X								
Division	Wastewater		Council Goal										
Location	Wastewater Treatment Plant		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The existing 25 year old Sludge Dewatering Equipment is in need of replacement, specifically the filter belt press and gravity belt thickener.

RATIONALE: (Cost/Benefit Analysis)

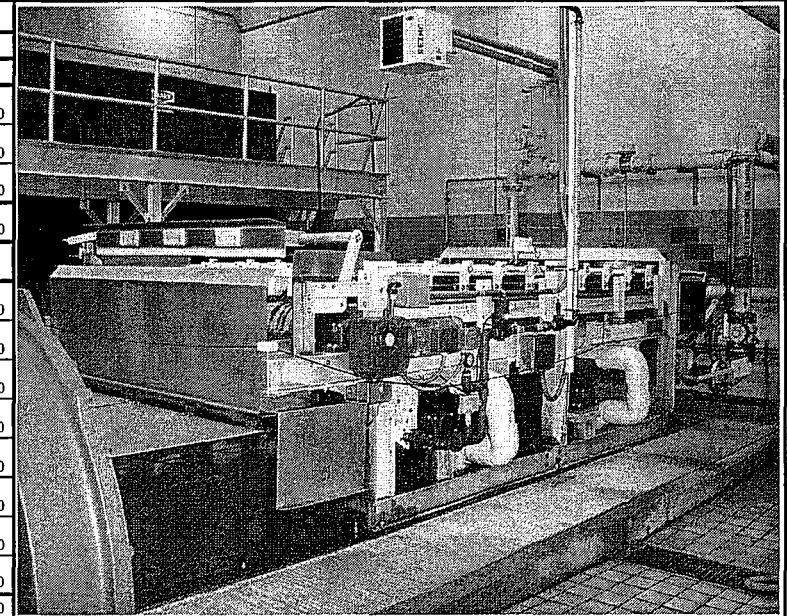
This specialized equipment removes the wastewater from the solids and allows for the thickening of the solids to a sludge material, enabling it to be transported offsite. Pending the recommendation of the upcoming Wastewater Facilities Plan this piece of equipment should decrease the liquid content of the sludge and should result in a 10% decrease to the sludge disposal cost which is determined by the weight of the material.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Reduction of future maintenance costs. New equipment should decrease our sludge disposal costs by approximately \$15,000 per year and \$150,000 over the next 10 years.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			2,500,000									2,500,000
TOTAL	0	0	2,500,000		0	0	0	0	0	0	0	2,500,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond			625,000									625,000
Federal												0
State			625,000									625,000
UNH			1,250,000									1,250,000
Trade In												0
Other												0
TOTAL	0	0	2,500,000		0	0	0	0	0	0	0	2,500,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Commercial Lawnmower	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated		X								
Division	Wastewater		Council Goal										
Location	Wastewater Treatment Plant		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replacement of 2005 zero turning radius commercial lawn mower needed to maintain the five acre Wastewater Treatment site.

RATIONALE: (Cost/Benefit Analysis)

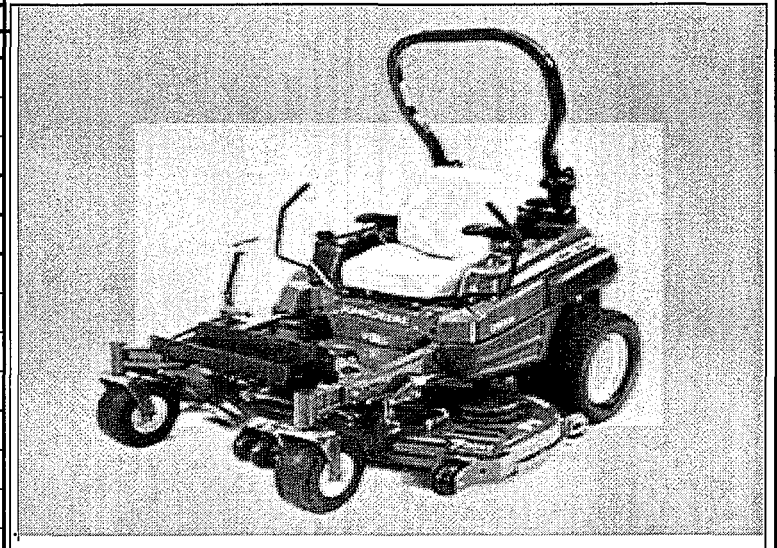
The current mower will be 8 years old in 2013 and due to wear and tear and reduced performance needs to be replaced.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minor routine maintenance.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			10,500									10,500
TOTAL	0	0	10,500	0	0	0	0	0	0	0	0	10,500
FUNDING:												
Operating Rev.			3,500									3,500
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH			7,000									7,000
Trade In												0
Other												0
TOTAL	0	0	10,500	0	0	0	0	0	0	0	0	10,500



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Major Components	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated										
Division	Wastewater		Council Goal		X	X							
Location	Wastewater Treatment Plant		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Major Components are typically laboratory or processing equipment upgrades which are currently in need of replacement for the waste water process to continuing running efficiently. The mechanical equipment within the wastewater division is used twenty four hours a day, seven days a week. The components listed below are all between 18 years old and 30 years old.

RATIONALE: (Cost/Benefit Analysis)

2013 - Replace diffusers in aeration tanks - \$60,000

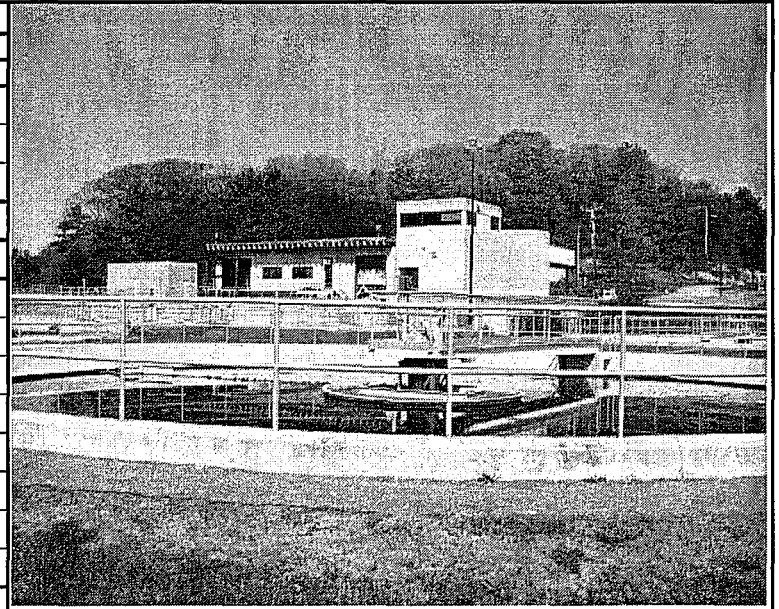
2014 - Replace 3 primary and 3 secondary waste/transfer pumps - 6 @ \$10,000 each = \$60,000

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

These upgrades are necessary due to age, and wear and tear. No change to the operating budget if replaced on schedule.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.	17,500		60,000	60,000								137,500
TOTAL	17,500	0	60,000	60,000	0	0	0	0	0	0	0	137,500
FUNDING:												
Operating Rev.	5,833		20,000	20,000								45,833
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH	11,667		40,000	40,000								91,667
Trade In												0
Other												0
TOTAL	17,500	0	60,000	60,000	0	0	0	0	0	0	0	137,500



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	Collection System Upgrades	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated	X									
Division	Wastewater		Council Goal		X	X							
Location	Various		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Repairs will be made to the wastewater collection system including line replacement and line repairs, engineering investigation, sewer manhole rehabilitation or replacement. This project also includes inflow and infiltration within the wastewater collection system. Inflow is the illegal connection of plumbing such as a sump pump into the Wastewater Collection System and infiltration is the seepage of groundwater or stormwater into the Wastewater Collection System

RATIONALE: (Cost/Benefit Analysis)

2013 - Upgrade of the Pettee Brook Interceptor consisting of the Replacement of 1000 ft of collection pipe and 10 sewer manholes between the South facing houses on Woodman Road and the Pettee Brook stream - \$520,000

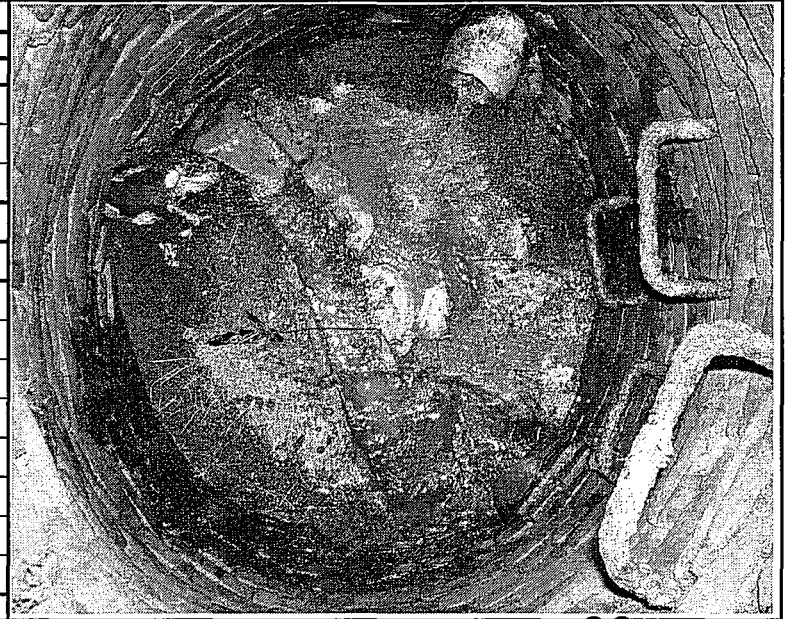
2014 - Woodside/Briarwood/Bagdad Investigation - \$50,000

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

The amount of staff time spent on collection system maintenance will decrease as these problem areas are corrected.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.			520,000	50,000								570,000
TOTAL	0	0	520,000	50,000	0	0	0	0	0	0	0	570,000
FUNDING:												
Operating Rev.				50,000								50,000
Capital Reserve												0
Bond			520,000									520,000
Federal												0
State												0
UNH												0
Trade In												0
Other												0
TOTAL	0	0	520,000	50,000	0	0	0	0	0	0	0	570,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Diesel Generator Replacement	N/A	Mandated										
Department Public Works		Council Goal			X							
Division Wastewater		Dept. Goal										
Location Wastewater Treatment Plant												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

Replacement of Wastewater diesel generator.

RATIONALE: (Cost/Benefit Analysis)

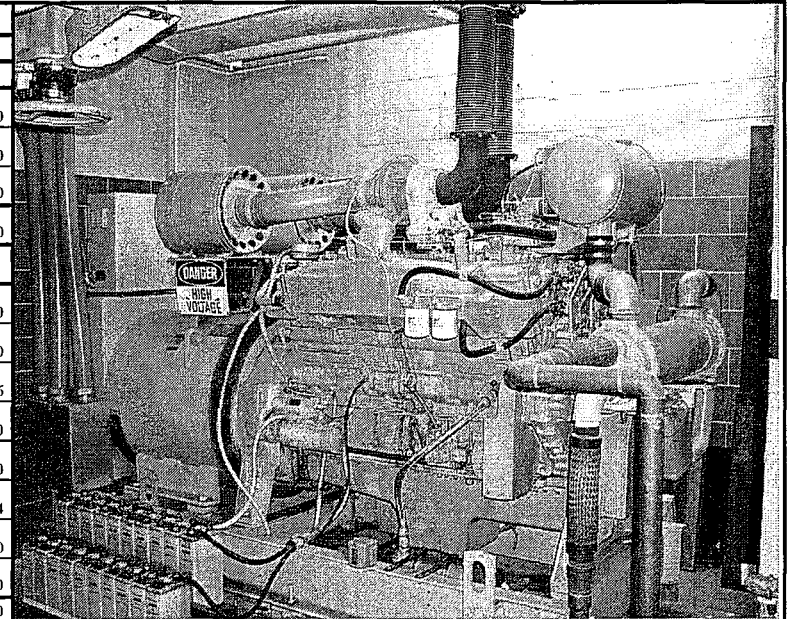
Emergency generator to run the Wastewater Treatment Plant in a power failure. Current unit is a 1995 model and has a 15 year life expectancy.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No future impact on maintenance costs.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				125,000								125,000
TOTAL	0	0	0	125,000		0	0	0	0	0	0	125,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond				41,666								41,666
Federal												0
State												0
UNH				83,334								83,334
Trade In												0
Other												0
TOTAL	0	0	0	125,000	0	0	0	0	0	0	0	125,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	18" Force Main	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works		Mandated	X									
Division	Wastewater		Council Goal			X							
Location	Wastewater Treatment Plant		Dept. Goal	X									

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

This 18-inch diameter wastewater force main pipe carries all of the Town's wastewater (up to 2.4 million gallons per day) under pressure from the Dover Road Wastewater Pump Station to Durham's Wastewater Treatment Plant. This pipe was constructed of asbestos cement in the mid-1960s and is approaching the end of its useful life. It is anticipated that the pipe will be replaced along a similar alignment using modern methods and materials that are longer lasting.

RATIONALE: (Cost/Benefit Analysis)

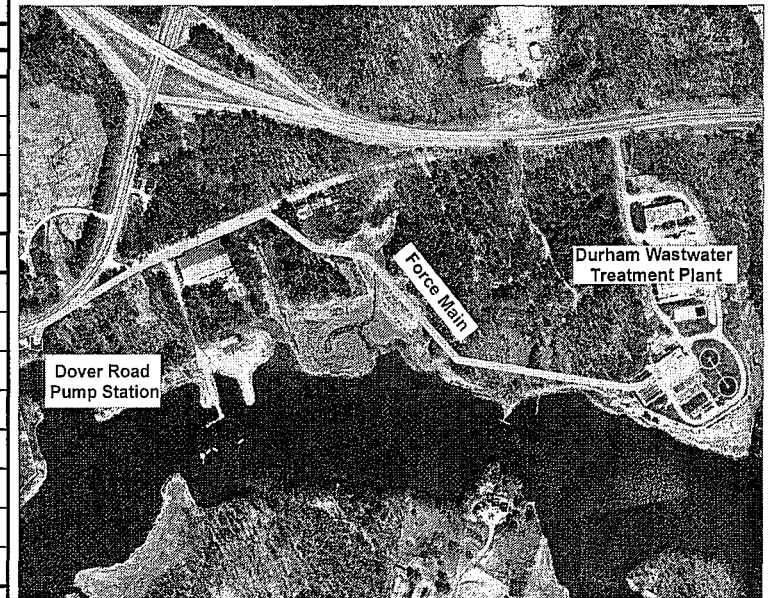
An investigation of pipe in 2008 revealed signs of diminished pipe capacity. Asbestos cement piping is no longer used in the industry because of its tendency to deteriorate over time, which is particularly a problem with piping that is under pressure.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact on operating budget.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.				2,200,000								2,200,000
TOTAL	0	0	0	2,200,000		0	0	0	0	0	0	2,200,000
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond				733,333								733,333
Federal												0
State												0
UNH				1,466,667								1,466,667
Trade In												0
Other												0
TOTAL	0	0	0	2,200,000		0	0	0	0	0	0	2,200,000



TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	3/4 Ton Pick-up Replacement	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
Department	Public Works	N/A	Mandated										
Division	Wastewater		Council Goal							X	X		
Location	Wastewater Treatment Plant		Dept. Goal										

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The Wastewater treatment Plant motor pool consists of two ¾ Ton pickup trucks which are on a 10 -12 year replacement plan. According to this plan the 2007 ¾ Ton Pick-up Truck will be replaced in 2018 and the 2008 ¾ Ton Pick-up truck in 2019.

RATIONALE: (Cost/Benefit Analysis)

The Wastewater Division has 2 Pick-up trucks which are utilized by 5 employees. This Division is responsible for the maintenance of the Treatment Plant, Wastewater Collection System and five Pump Stations.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

No impact to other Departments, normal future maintenance costs (i.e. tires, battery, oil, filters). This division has downsized these vehicles over the past 10 years.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.								31,900	32,900			64,800
TOTAL	0	0	0	0	0	0	0	31,900	32,900		0	64,800
FUNDING:												
Operating Rev.								9,633	9,800			19,433
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH								19,267	19,600			38,867
Trade In								3,000	3,500			6,500
Other												0
TOTAL	0	0	0	0	0	0	0	31,900	32,900		0	64,800



2012-2021 CAPITAL IMPROVEMENTS PROGRAM

Description	Rank	2012	Rank	2013	Rank	2014	Rank	2015	Rank	2016	Rank	2017	Rank	2018	Rank	2019	Rank	2020	Rank	2021
TIF DISTRICT																				
Phase III - Infrastructure Improvements (Trail to Durham Business Park)											1	79,030								
TOTAL TIF DISTRICT		\$0		\$0		\$0		\$0		\$0		\$79,030		\$0		\$0		\$0		\$0

TOWN OF DURHAM, NEW HAMPSHIRE

2012 - 2021 CIP Project Description

Project Name	MASTER PLAN INFORMATION	PROJECT NEED	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21
TIF District Phase III	N/A	Mandated										
Department Infrastructure Improvement		Council Goal X						X				
Division Public Works		Dept. Goal										
Location Jackson's Landing/Business Park												

PROJECT DESCRIPTION, RATIONALE & OPERATING BUDGET IMPACT

DESCRIPTION:

The third phase of the creation of a Tax Increment Finance (TIF) District includes a 1500 foot multi purpose trail from Jackson's Landing to the Durham Business Park.

RATIONALE: (Cost/Benefit Analysis)

The Town rationale for recreation parking and trails is to balance the TIF district with both infrastructure and recreational improvements. The trail will allow for safer travel between the two locations.

OPERATING BUDGET IMPACT: (Include how this may impact other Departments and expected future maintenance costs)

Minor impact to the Public Works budget and staff due to summer and winter maintenance.

FINANCIAL PLAN

	PRIOR	FY 12	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	TOTAL
EXPENDITURES:												
Pre-Design												0
Design												0
Purch/Const.							79,030					79,030
TOTAL	0	0	0	0	0	0	79,030	0	0	0	0	79,030
FUNDING:												
Operating Rev.												0
Capital Reserve												0
Bond												0
Federal												0
State												0
UNH												0
Trade In												0
Other							79,030					79,030
TOTAL	0	0	0	0	0	0	79,030	0	0	0	0	79,030

