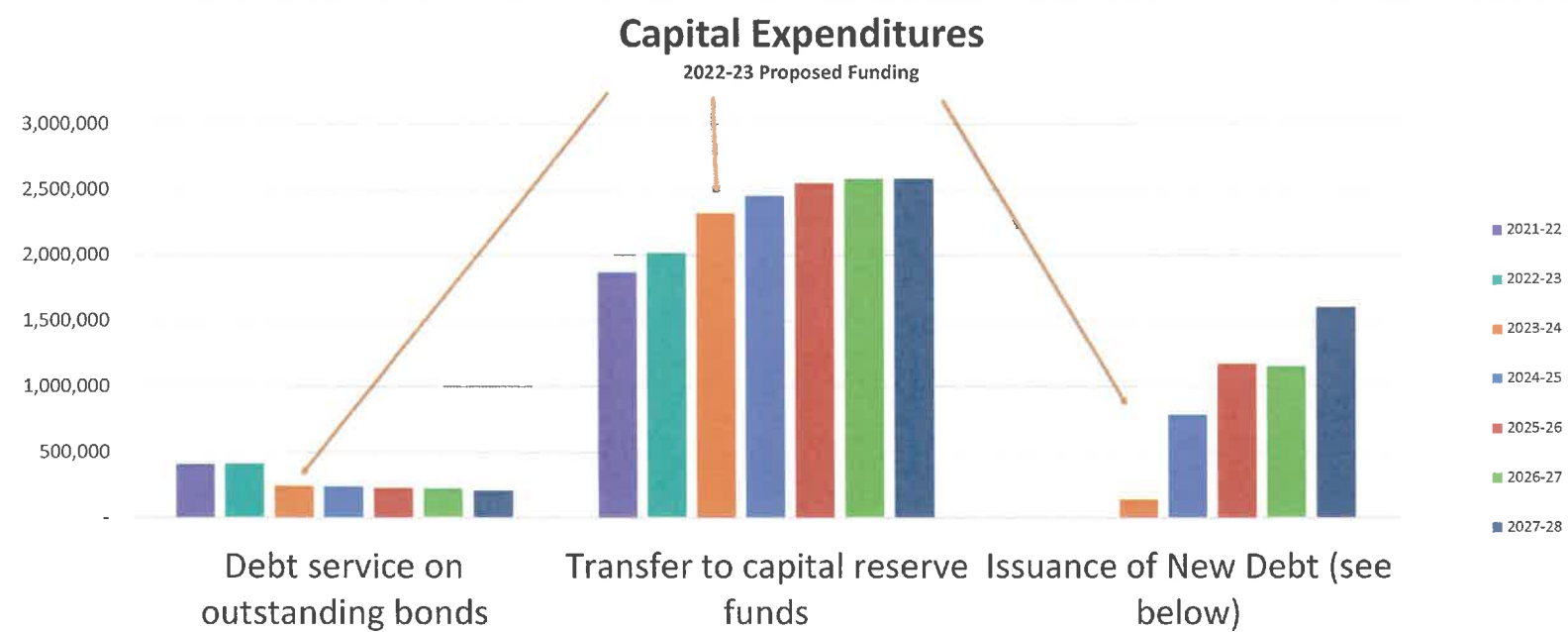
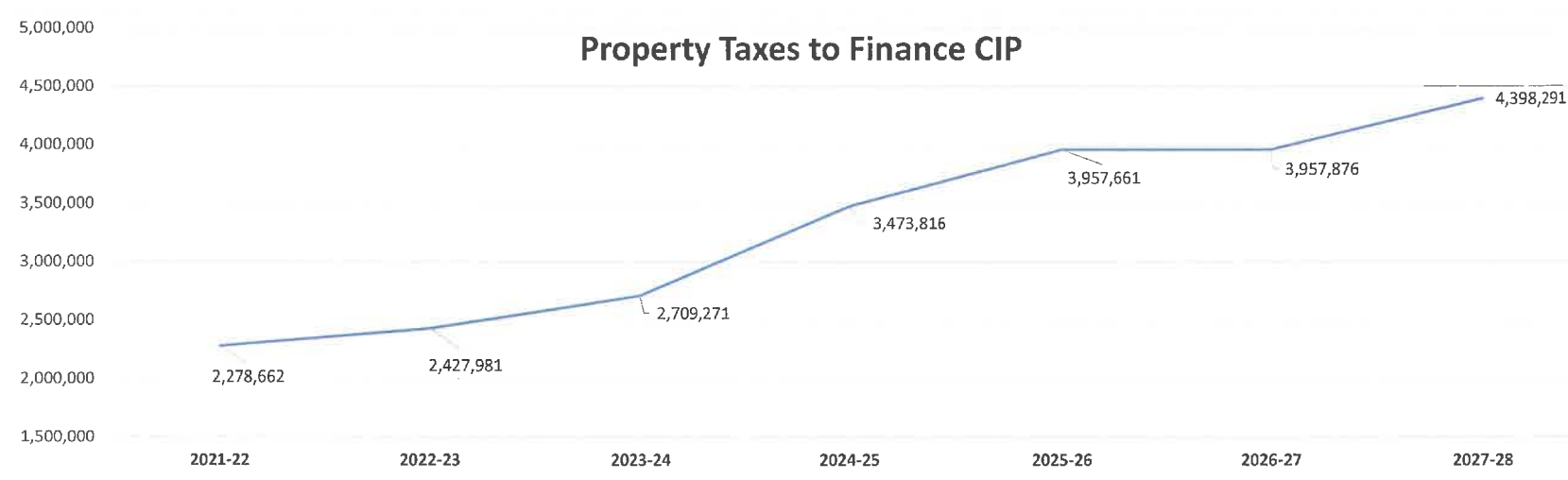


Schedule 1											
Capital Improvements Program											
PROJECTED MUNICIPAL PROPERTY TAX IMPACT											
Capital Expenditures											
	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28				
Debt service on outstanding bonds	408,662	410,731	244,145	236,240	228,335	220,430	207,525				
Transfer to capital reserve funds	1,870,000	2,017,250	2,325,000	2,455,000	2,555,000	2,585,000	2,585,000				
Issuance of New Debt (see below)	-	-	140,126	782,576	1,174,326	1,152,446	1,605,766				
Total property tax financing of capital expenditures	2,278,662	2,427,981	2,709,271	3,473,816	3,957,661	3,957,876	4,398,291				
CIP Major Projects Issuance of New Debt											
	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28				
Public Safety Complex(25 YR) {\$10,000,000}	-	-	-	645,000	635,000	625,000	615,000				
SLE McQuestion Rd (10 YR) {\$2,360,000}	-	-	-	-	306,800	299,720	292,640				
Athletic Field (10YR) {\$750,000}	-	-	-	-	97,500	95,250	93,000				
Ladder truck (15 YR) {1,525,000}	-	-	140,126	137,576	135,026	132,476	129,926				
Library (25 YR) {\$6,000,000}	-	-	-	-	-	-	475,200				
Total property tax financing of CIP major projects	-	-	140,126	782,576	1,174,326	1,152,446	1,605,766				
Capital Reserve Funding											
Capital Reserve Fund											
	Historic Funding				Projected Funding						
	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28
Ambulance	115,000	80,000	80,000	100,000	100,000	115,000	150,000	175,000	175,000	175,000	175,000
Athletic Field Development	-	-	-	5,000	5,000	5,000	25,000	50,000	50,000	50,000	50,000
Communications Equipment	185,000	125,000	125,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Computer Equipment	35,000	35,000	35,000	35,000	35,000	35,000	45,000	50,000	50,000	50,000	50,000
DW Highway Intersection Improvements	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Fire Equipment	192,000	250,000	250,000	325,000	400,000	400,000	400,000	400,000	400,000	400,000	400,000
Highway Equipment	325,000	400,000	400,000	400,000	400,000	450,000	450,000	475,000	500,000	500,000	500,000
Land Bank	-	-	-	-	-	-	-	-	-	-	-
Library Bld Maintenance	35,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000
Playground Equipment	-	-	-	-	-	-	-	-	-	-	-
Real Estate Reappraisal	15,000	15,000	15,000	15,000	15,000	17,250	25,000	25,000	25,000	25,000	25,000
Road Improvements	-	-	-	-	-	-	-	-	-	-	-
Salt Shed	-	-	-	-	-	-	-	-	-	-	-
Sewer Line Extension	-	-	-	-	-	-	-	-	-	-	-
Road Infrastructure CRF*	600,000	450,000	450,000	545,000	545,000	650,000	850,000	925,000	1,000,000	1,000,000	1,000,000
Solid Waste Disposal	100,000	125,000	125,000	125,000	125,000	100,000	125,000	125,000	125,000	125,000	125,000
Fire Station	-	-	-	-	-	-	-	-	-	-	-
GIS	20,000	20,000	20,000	15,000	5,000	5,000	15,000	15,000	15,000	20,000	20,000
Traffic Signal Pre-emption System	15,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
Capital Reserve Fund Transfers	1,687,000	1,630,000	1,630,000	1,795,000	1,860,000	2,007,250	2,315,000	2,445,000	2,545,000	2,575,000	2,575,000
Expendable Trust Funds											
Milfoil	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Total property tax financing	1,697,000	1,640,000	1,640,000	1,805,000	1,870,000	2,017,250	2,325,000	2,455,000	2,555,000	2,585,000	2,585,000
Sewer Fund											
Sewer Infrastructure Improvements	300,000	300,000	350,000	500,000	500,000	500,000	575,000	575,000	575,000	575,000	575,000
Total CRF & Expendable Trust Funds	1,997,000	1,940,000	1,990,000	2,305,000	2,370,000	2,517,250	2,900,000	3,030,000	3,130,000	3,160,000	3,160,000
Projected Funding											
	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28				
*Road Infrastructure CRF Breakout of funding											
Drainage			200,000	250,000	325,000	350,000	350,000	350,000	350,000	350,000	350,000
Sidewalks			275,000	175,000	325,000	350,000	350,000	350,000	350,000	350,000	350,000
Roads			70,000	225,000	200,000	225,000	300,000	300,000	300,000	300,000	300,000
			545,000	650,000	850,000	925,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000





Town of Merrimack, New Hampshire

Community Development Department
6 Baboosic Lake Road
Town Hall - Lower level - East Wing

603 424-3531
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www.merrimacknh.gov

Planning - Zoning - Economic Development - Conservation

Memorandum

Date: December 8, 2021
To: Tom Koenig, Chair, and Members, Merrimack Town Council
From: Robert Best, Chairman, Merrimack Planning Board
Subject: 2022-2028 Capital Improvements Program Recommendations

PLANNING BOARD RECOMMENDATIONS – 2022 C.I.P. REVIEW (TOWN)

The Planning Board heard a presentation by Town Manager Paul Micali regarding the Capital Improvement Program (CIP) requests for program years 2022 to 2028 at its December 7, 2021 virtual meeting. The Board deliberated on the CIP following the presentation and assigned a priority ranking to each project as indicated on the attached schedule. In addition, the Board voted to include the following comments:

- The Board recommends that the Council include funds for sidewalks as a recurring expense during each year of the CIP.

Should you have any questions concerning the Planning Board's recommendations, or if I can provide additional information, please feel free to contact me.

Robert Best
Chairman, Merrimack Planning Board

Enc: CIP Schedule and Recommendations

Cc: Merrimack Town Council
Paul Micali, Town Manager
Tom Boland, Finance Director
Tim Thompson, AICP, Community Development Director
Merrimack Planning Board

Schedule 2
CAPITAL IMPROVEMENTS PROGRAM
MAJOR PROJECTS

No	Department	Project Description	Funding Source	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Page #	Planning Board comments
1	Fire	Fire House Location Study	R Fire Station CRF	25,000							1	N/A
2	Fire/police	Public Safety Complex (\$11,025,000)	R Land Bank CRF			429,000					2 - 3	II - Necessary
			R Budget/Other			2,500,000						
			R Bond			10,000,000						
			R Private Donation			265,000						
3	Fire	South Fire Station (\$650,000)	R Fire Station CRF (South)			265,000					4 - 5	II - Necessary
			R Private Donation			385,000						
4	Admin/Engineering *	Bridge Replacement - US 3 (DW Highway)/Baboosic Brook (\$6,375,830) (Engineering & ROW 2022 (\$553,161); Construction 2029 (\$5,822,669))	R Road Infrastructure CRF		110,632		729,984				6 - 7	II - Necessary
			R State Funding		442,529		2,919,937					
			R BRIC Funding - Non Particip. Pending				2,172,748					
5	Admin/Engineering	Bridge Rehabilitation - US 3 (DW Highway)/Souhegan River - Chamberlain Bridge (\$350,000) - Not accepting new bridges at this time in Bridge Aid Program	R Road Infrastructure CRF							70,000	8 - 9	II - Necessary
			R State Funding - Anticipated							280,000		
6	Admin/Engineering	Stormwater Drainage Improvements / Permit Compliance	R Road Infrastructure CRF	250,000	250,000	275,000	300,000	325,000	325,000	325,000	10 - 11	II - Necessary
7	Admin/Engineering	Sidewalks	R Budget/Road Infrastructure CRF			200,000					12 - 13	II - Necessary
8	Admin/Engineering	Woodland Drive Area Drainage Improvements (Deerwood, Birchwood, Pinetree, Fernwood, Forest, Hartwood, & Timber)	R Road Infrastructure CRF		375,000	375,000	375,000	375,000	375,000	375,000	14 - 15	II - Necessary
9	Admin/Engineering	Paving - Infrastructure Improvements	R Road Improvement (Registration Fee)	125,000	135,000	135,000	135,000	135,000	135,000	135,000	16 - 17	II - Necessary
			R Budget	975,000	1,025,000	1,075,000	1,125,000	1,175,000	1,225,000	1,275,000		
10	Admin/Engineering	Paving - Infrastructure Improvements - Gravel Roads	R Road Infrastructure CRF					300,000		600,000	18 - 19	II - Necessary
11	Admin/Engineering	Paving - DW Highway (Green Street to Bedford Road) - Overlay	R DW Highway CRF		200,000			200,000			20 - 21	II - Necessary
12	Admin/Engineering *	Wire Road Intersection Improvements (TYP, FY 2027)	R Road Infrastructure CRF					21,353	201,522		22 - 23	II - Necessary
			R Federal Funding					85,414	806,086			
13	Admin/Engineering	Merrimack River Boat Ramp Access Improvement - Griffin Street	R Road Infrastructure CRF							200,000	24 - 25	III - Desirable
			R Federal Funding							200,000		
14	Admin/Engineering	Seaverns Bridge Canoe Launch Ramp - Slope Stabilization & Canoe Access	R Road Infrastructure CRF	50,000	45,000						26 - 27	II - Necessary
15	Admin/Engineering *	Souhegan River Trail	R Road Infrastructure CRF		92,402	94,990					28 - 29	II - Necessary
			R Federal Funding		369,610	379,958						
16	Admin/Engineering *	DWH Sidewalk Improvements Plan (2021 TAP Applications) (FY 2032)	R Road Infrastructure CRF			30,729				291,079	30 - 31	III - Desirable
			R Federal Funding			122,914				1,164,318		
17	Admin/Engineering	Sewer Line Extensions (McQuestion Sewer Basins & Mayflower Sewer Basins)	R Bond				2,360,000				32 - 33	II - Necessary
18	Admin/Engineering	Depot Street Boat Ramp Repairs	R Road Infrastructure CRF		150,000						34 - 35	II - Necessary
19	Admin/Engineering *	Bridge Replacement - Pedestrian Bridge over Souhegan River (FY 2032)	R Road Infrastructure CRF						59,566	176,000	36 - 37	II - Necessary
			R State Funding						238,262	704,000		
20	Highway	Replace fuel tanks, piping, and Island w/ canopy	R Budget			1,400,000					38 - 39	II - Necessary
21	Library	HVAC	R Library Maintenance CRF		100,000						40	II - Necessary
22	Library	Sprinkler System	R Library Maintenance CRF						100,000		41	II - Necessary
23	Library	Sidewalk	R Library Maintenance CRF						100,000		42	II - Necessary
24	Library	Slate roof	R Library Maintenance CRF						100,000		43	II - Necessary
25	Library	Elevator	R Library Maintenance CRF		100,000						44	II - Necessary
26	Library	New Library (place holder)	R Bond						6,000,000		45	II - Necessary
27	Community Development	Master Plan	R Budget				300,000				46	II - Necessary
28	Parks & Recreation	New Athletic Fields (place holder)	R Bond				750,000				47 - 48	III - Desirable
			A									
		TOTAL GENERAL FUND		1,425,000	3,395,173	17,932,591	11,067,669	2,616,767	9,665,436	5,795,397		

No	Department	Project Description	Funding Source	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	Page #	Planning Board comments
1	Wastewater	Relocate sewer connector under Everett Turnpike (FKA Exec. Pk. Pump Station)	R Wastewater CRF			500,000					49 - 50	II - Necessary
2	Wastewater	Wastewater Treatment Plant Phase III and Pump Station Upgrades	R User Fees State Loan SRF	22,120,000							51 - 52	II - Necessary
3	Wastewater	Phase III - B Activities Removed from Project Due to Cost - SRF Loan										
		Screening Building	R Town ARPA Funding		2,300,000						53 - 54	II - Necessary
			R Bond		8,000,000							
		SawDust Shed, Chlorine Building, Compost Building, Headworks Building (2nd Floor), Algae Sweeps, Balance of Screenings Building Cost (\$300,000)	R Remaining Balance - Town to seek Grant funding of up to \$2,000,000 (Grant would be in the form of 20% reimbursement of SRF loan - i.e., \$10M bond less \$2M State Aid Grant)		2,000,000							
4	Wastewater	Pennichick Square Pump Station	R User Fees State Loan SRF					500,000			55 - 56	II - Necessary
			R Wastewater CRF		50,000							
5	Wastewater	Pearson Road Pump Station - Merrimack Contribution	R Wastewater CRF				25,000				57 - 58	II - Necessary
			R Bedford Contribution				225,000					
6	Wastewater	Burt Street Pump Station	R Wastewater CRF		250,000						59 - 60	II - Necessary
7	Wastewater	Heron Cove Pump Station	R User Fees State Loan SRF					200,000			61 - 62	
8	Wastewater	Telemetry Project (Pump Station Communications)	R Wastewater CRF - Design		25,000						63 - 64	II - Necessary
			R User Fees State Loan SRF									
9	Wastewater	Agitator PLC Upgrade	R Wastewater CRF		140,000						65 - 66	II - Necessary
10	Wastewater	Nutrient Removal (Placeholder)	R User Fees State Loan SRF						250,000		67 - 68	II - Necessary
11	Wastewater	Hypo Feed System Upgrade (Placeholder)	R Wastewater CRF							250,000	69 - 70	II - Necessary
		TOTAL SEWER FUND		22,120,000	12,765,000	500,000	250,000	700,000	250,000	250,000		
			R CRF	325,000	1,423,034	1,469,718	1,404,984	1,221,353	1,261,087	2,037,079		
			R Funded through Budget	975,000	1,025,000	5,175,000	1,325,000	1,175,000	1,225,000	1,275,000		
			R Bonds				3,110,000		6,000,000			
			R Road Improvement (RSA261:153)	125,000	135,000	135,000	135,000	135,000	135,000	135,000		
			R Private Donation			650,000	225,000					
			R State Aid		442,529		2,919,937					
			R Federal Aid		369,610	502,873	2,172,748	85,414	806,086.40	1,364,317.60		
			R WWTF User Fees/Bonds	22,120,000	12,765,000	500,000	250,000	700,000	250,000	250,000		
				23,545,000	16,160,173	8,432,591	11,317,669	3,316,767	9,915,436	6,045,397		

* Included in CIP just in case we are a recipient of TAP Grant

Schedule 3
Capital Improvements Program

MINOR PROJECTS

No.	Department	Year	Replace SCH	Model		Funding Source	Vehicle Replacement Year	Replacement Cost		Current Year	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6
										2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
1	Assessing	2007		Ford Focus	R	Budget	every 7 yrs	25,000		-		27,000		-	-	
2	Assessing			Revaluation	R	Revaluation CRF	every 5 yrs	125,000	35,000	-	-	-	-	-	125,000	-
3	Bld & Grounds	2011	12	450 4x4 w/ Dump Body, Plow (Formerly H-7)	R	Budget	2022/23	45,000	-	-	50,000	-	-	-	-	-
4	Bld & Grounds			HVAC (PD)	R	Budget			-	-		100,000				
5	Bld & Grounds			Sprinkler System Town Hall	R	Budget					200,000					
6	Bld & Grounds			Replace brick veneer siding (police) *(contingent on public safety complex)	R	Budget		-	-	-	-	150,000	-	-	-	-
7	Bld & Grounds			Reconstruct Parking Lots (Lower PD lot)	R	Budget			-	-	132,000	28,000				
8	Communications			Communications Recorder	R	Communication CRF		25,000	-	25,000	-	-	-	-	-	25,000
9	Communications			Radio Base Stations (VHF Backup)	R	Communication CRF		25,000	-	-	-	-	-	-	25,000	-
10	Communications			Simulcast system (800 Mhz site for Parker Road)	A	Communication CRF/Budget			-	762,754						
11	Communications			Body Camera	A	Communication CRF		325,345	100,000	-	225,345	-	-	-	-	-
12	Communications			Access Control / Facility Monitoring	R	Communication CRF		30,000	-	-	-	30,000	-	-	-	30,000
13	Communications			CAD/RMS Server replacement/Dispatch upgrade	R	Communication CRF		40,000	-	-	-	-	-	-	40,000	-
14	Community Development			GIS Update & Maintenance Program	R	GIS CRF			-	-	-	-	-	-	200,000	
15	Fire			Building Upgrade to Reeds Ferry (Station 3)		Shed Harris Fund			-	-	-	-	-	-	95,000	
16	Fire		100k (miles)	Ambulance 233	R	Ambulance CRF	2020	95,000	200,000							250,000
17	Fire		100k (miles)	Ambulance 231	R	Ambulance CRF	2024	250,000			225,000					
18	Fire		100k (miles)	Ambulance 234	R	Ambulance CRF	2022	250,000					225,000			
20	Fire		EOL	Cardiac Defibrillator/Monitor/Transmitter	R	Ambulance CRF	2022	180,000				200,000			-	
21	Fire		EOL	Automatic Rescue CPR Devices	R	Ambulance CRF	2022	90,000					45,000			
22	Fire		20 yr EOL Review	Pumper E-3	R	Fire Equip CRF						650,000				
23	Fire		EOL	Pumper E-4	R	Fire Equip CRF										710,000
24	Fire		EOL	Tower Ladder (Bond or Lease)	R	BOND				1,525,000						
25	Fire		EOL	Pickup/Forestry 2	R	Fire Equip CRF					125,000					
26	Fire		EOL	Fire Command Vehicle	R	Fire Equip CRF					45,000					
27	Fire		EOL	Fire Command Vehicle	R	Fire Equip CRF									47,000	
28	Fire		EOL	Utility Truck Plow	R	Fire Equip CRF								50,000		
29	Fire		EOL	Gator / Forestry Trailer	R	Fire Equip CRF						12,000				
30	Fire		EOL	Boat Rigid Hull/inflatable/equipment	R	Fire Equip CRF					45,000					
31	Fire		EOL	Boat, Portable Inflatable	R	Fire Equip CRF			12,000							
32	Fire		EOL	Computer Upgrade/ Replacement	R	Fire Equip CRF			20,000							
33	Fire		EOL	Portable Radios	R	Fire Equip CRF										175,000
34	Fire		EOL	SCBA Filling System	R	Fire Equip CRF			94,000							
35	Fire		EOL	Toxic Gas Meters	R	Fire Equip CRF								15,000		
36	Fire		EOL	Thermal Imaging Cameras	R	Fire Equip CRF						25,000	25,000			
37	Fire		EOL	Large Diameter Hose	R	Fire Equip CRF						10,000				
38	Fire		EOL	Fire Suppression Hose	R	Fire Equip CRF							10,000			
39	Fire		EOL	SCBA RIT cylinders 1 hour (10 x \$1441)	R	Fire Equip CRF										14,410
40	Fire		EOL	SCBA cylinders 30 minute (40 x \$1085)	R	Fire Equip CRF										21,700
41	Fire		EOL	SCBA Packs	R	Fire Equip CRF										150,000
42	Fire		EOL	Opticom repair/replacement	R	Traffic Pre-emption CRF			5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
43	Fire		EOL	Turn out gear (5 x \$3,000)	R	Budget			15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
44	Highway	2013	11 yr	3/4 T Pickup H-3	R	Highway Equip CRF	2023/24	35,000	-	-	40,000					
45	Highway	2012	11 yr	3/4 T Pickup H-5	R	Highway Equip CRF	2021/22	35,000		40,000	-					
46	Highway	2014	10 yr	1 Ton Dump H-8	R	Highway Equip CRF	2023/24	60,000	-	-	60,000					
47	Highway	2013	10 yr	1 Ton Dump H-9	R	Highway Equip CRF	2022/23	60,000	-	-	70,000					
48	Highway	2013	10 yr	1 Ton Dump H-11	R	Highway Equip CRF	2022/23	60,000	-	-	60,000					
49	Highway	1997	25 yr	Grader H-12	R	Highway Equip CRF	2021/22	250,000			-				250,000	
50	Highway	2021	15 yr	Backhoe/loader H-13	R	Highway Equip CRF	2035/36	140,000	140,000							
51	Highway	2021	15 yr	Wood chipper H-15	R	Highway Equip CRF	2035/36	50,000	50,000							
52	Highway	2015	10 yr	Loader H-16	R	Highway Equip CRF	2024/25	150,000	-	-	-	160,000				
53	Highway	2013	15yr	Backhoe/loader H-17	R	Highway Equip CRF	2027/28	165,000								165,000
54	Highway	2006	12 yr	Bucket Truck H-18	R	Highway Equip CRF	2017/18	100,000	-		100,000					
55	Highway	2008	15 yr	Catch Basin Cleaner H-19	R	Highway Equip CRF	2022/23	185,000	-	-	185,000					
56	Highway	2020	12 yr	6 Wheel Dump H-20	R	Highway Equip CRF	2031/32	180,000	-	-	-					
57	Highway	2015	11 yr	6 Wheel Dump H-21	R	Highway Equip CRF	2025/26	180,000					180,000			
58	Highway	2018	12yr	6 Wheel Dump H-22	R	Highway Equip CRF	2029/30	180,000								
59	Highway	2014	11 yr	6 Wheel Dump H-23	R	Highway Equip CRF	2024/25	180,000	-	-	-	180,000				
60	Highway	2015	11 yr	6 Wheel Dump H-24	R	Highway Equip CRF	2025/26	180,000	-	-	-		180,000			
61	Highway	2015	11 yr	6 Wheel Dump H-25	R	Highway Equip CRF	2025/26	180,000	-	-	-		180,000			
62	Highway	2014	11 yr	6 Wheel Dump H-26	R	Highway Equip CRF	2024/25	180,000	-	-	-	180,000				
63	Highway	2019	11 yr	6 Wheel Dump H-27	R	Highway Equip CRF	2029/30	180,000								
64	Highway	2019	11 yr	6 Wheel Dump H-28	R	Highway Equip CRF	2029/30	180,000								
65	Highway	2009	10 yr	6 Wheel Truck H-29	R	Highway Equip CRF	2018/19	180,000	-	180,000						

IV

Schedule 3
Capital Improvements Program
MINOR PROJECTS

No.	Department	Year	Replace SCH	Model		Funding Source	Vehicle Replacement Year	Replacement Cost		Current Year	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6
										2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
66	Highway	2020	12 yr	6 Wheel Dump H-30	R	Highway Equip CRF	2031/31	180,000		-	-	-	-	-	-	-
67	Highway	2017	12 yr	6 Wheel Dump H-31	R	Highway Equip CRF	2028/29	180,000								
68	Highway	2021	12 yr	10 Wheel Dump H-33	R	Highway Equip CRF	2032/33	195,000	195,000							
69	Highway	2018	12 yr	6 Wheel Dump H-34	R	Highway Equip CRF	2029/30	180,000								
70	Highway	2021	12 yr	6 Wheel Dump H-35	R	Highway Equip CRF	2032/33	180,000		-	-	-	-	-	-	-
71	Highway	NEW	12 yr	6 Wheel Dump H-36	N	Highway Equip CRF	NEW	180,000		-	180,000	-	-	-	-	-
72	Highway	2002	20 yr	John Deere Tractor H-41	R	Highway Equip CRF	2021/22	95,000			95,000					
73	Highway	2014	15 yr	Kubota Tractor H-42	R	Highway Equip CRF	2028/29	95,000				-	-			
74	Highway	2017	11 yr	Trackless Sidewalk Tractor H-43	R	Highway Equip CRF	2031/32	145,000								145,000
75	Highway	2012	11 yr	MV Sidewalk tractor H-44	R	Highway Equip CRF	2022/23	145,000							145,000	
76	Highway	2008	12 yr	Message Board - MB-7	R	Highway Equip CRF	2019/20	20,000		-	20,000					
77	Highway	2016	12 yr	Message Board - MB-11	R	Highway Equip CRF	2027/28	20,000								20,000
78	Highway	1988	25 yr	Trailer Landscape MN-054	R	Highway Equip CRF	2012/13	15,000		-	-	-	-	-	-	-
79	Highway	2017	11 yr	6 Wheel Dump H-31	R	Highway Equip CRF	2027/28	180,000		-	-	-	-	-	-	180,000
80	Highway	2021	25 yr	Trailer, Roller MN-031	R	Highway Equip CRF	2045/46	15,000	15,000							
81	Highway	1998	25 yr	Trailer, Brine MN-080	R	Highway Equip CRF	2022/23	15,000		-	15,000					
82	Highway	2002	25 yr	Trailer - Black MN-143	R	Highway Equip CRF	2026/27	15,000		-	-	-	-	-	15,000	
83	Highway	2012	15 yr	Utility MV Sidewalk Tractor H-44	R	Highway Equip CRF	2026/27	150,000		-	-	-	-	-	150,000	
84	Highway	1987	25 yr	Athletic Field Groomer	R	Highway Equip CRF	2012/13	35,000			35,000					
85	Highway	2016	9 yr	Mower, Exmark Master 166	R	Budget	2022/23	12,000	12,000							
86	Highway	2019	9 yr	Mower, Exmark Master 176	R	Budget	2012/13	12,000		-	-	-	-	-	-	12,000
87	Highway	2021	9 yr	Mower, Exmark Master 167	R	Budget	2022/23	12,000			12,000					
88	Library			Carpet Replacement	R	Budget				62,000						
89	Parks and Recreation			Wasserman Park Beach - Phase 4	A	Budget									100,000	
90	Parks and Recreation			Dock Replacement	R	Budget				26,400						
91	Parks and Recreation			Skateboard Park Replacement	R	Playground CRF									100,000	
92	Parks and Recreation			Wasserman Park Road and Parking Improvement	R	Budget						230,000				
93	Parks and Recreation			Martel Field and Greenfield Farms lighting (Placeholder)	A	Atheletic Field CRF										725,000
94	Parks and Recreation			Wasserman Park Cabin Roof Replacements (5 Cabins)	A	Budget					32,500					
95	Parks and Recreation			Function Hall basement Retro fit	R	Budget	Yearly	100,000					100,000			
96	Parks and Recreation			Irrigation Wasserman Park	A	Budget						62,000				
97	Parks and Recreation			Dog Park Lighting Project	A	Budget									50,000	
98	Police	Var		Patrol Vehicles	R	Budget	Yearly	30,000	123,600	127,308	145,000	135,000	139,050	143,222		
99	Police		5 year	Special Response Team Body Armor Replacement (10 team members)	A	Budget	every 5 yrs	27,000						27,000		
100	Police	Var		Administrative Vehicle	R	Budget	every 7 yrs	35,000				35,000				
101	Solid Waste Disposal	2018	10 yr	90 CY End Dump T2	R	Solid Waste CRF	2027/28	80,000								80,000
102	Solid Waste Disposal	2018	10 yr	100 CY Trailer, live floor T3	R	Solid Waste CRF	2027/28	80,000								80,000
103	Solid Waste Disposal	2005	20 yr	Truck Cab & Chassis - International Tractor L6	R	Solid Waste CRF	2024/25	140,000						140,000		
104	Solid Waste Disposal	2013	12 yr	Transfer Station Loader L4	R	Solid Waste CRF	2024/25	300,000					300,000			
105	Solid Waste Disposal	2012	15 yr	Skid Steer Loader L10	R	Solid Waste CRF	2036/37	50,000							50,000	
106	Solid Waste Disposal	2016	12 yr	Pickup Truck w/ Plow L1	R	Solid Waste CRF	2037/38	40,000								40,000
107	Solid Waste Disposal	2010	12 yr	Pickup Truck w/ Plow L8	R	Solid Waste CRF	2021/22	40,000			40,000					
108	Solid Waste Disposal	2004	20 yr	Office Trailer	R	Budget	2021/22	95,000				95,000				
109	Technology			Campus WIFI - town hall	R	Computer CRF			10,000					10,000		
110	Technology			Microsoft 360	R	Computer CRF			46,000	46,000	46,000	46,000	46,000	46,000	46,000	46,000
111	Town Clerk/Tax Collector			Computer Equipment	R	Computer CRF		10,000				10,000				10,000
TOTAL GENERAL FUND										1,166,850	3,155,562	2,232,345	2,326,000	1,292,050	1,601,222	2,899,110

Schedule 3
Capital Improvements Program
MINOR PROJECTS

No	Department	Year	Replace SCH	Model		Funding Source	Vehicle Replacement Year	Replacement Cost		Current Year	YR 1	YR 2	YR 3	YR 4	YR 5	YR 6
										2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28
1	Wastewater Treatment	2017	ongoing	Manhole/Sewer Rehabilitation	R	User Fees - budget		25,000		25,000	25,000	25,000	25,000	25,000	25,000	25,000
2	Wastewater Treatment	2017	11	CCTV Camera Equipment for Sewer System	R	User Fees	2028/29	70,000								
3	Wastewater Treatment	2017	15	Chevy Van - Collection System Camera Van	R	User Fees	2027/2028	40,000								40,000
4	Wastewater Treatment	2017	8	Bobcat Skid Steer Loaders-compost facility	R	User Fees	2024/25	40,000				40,000				
5	Wastewater Treatment	2017	8	Bobcat Skid Steer Loaders-compost facility	R	User Fees	2024/25	40,000				40,000				
6	Wastewater Treatment	2008	15	Ford Explorer -Pretreatment Manager	R	User Fees	2022/23	30,000		30,000						
7	Wastewater Treatment	2014	10	John Deere Loader C-1-compost facility (2014 loader was purchased used in 2018)	R	User Fees	2026/2027	280,000							280,000	
8	Wastewater Treatment	2015	10	John Deere Loader C-2-compost facility (2015 loader was purchased used in 2018)	R	User Fees	2027/2028	280,000								280,000
9	Wastewater Treatment	2006	10	Cat 938 loader C-3-compost facility	R	User Fees	2023/24	250,000			250,000					
10	Wastewater Treatment	2009	15	Ford Focus Assistant DPW	R	User Fees	2023/24	25,000			25,000					
11	Wastewater Treatment	2014	11	Ford F-250 4X4 Maintenance/plow vehicle	R	User Fees	2026/27	50,000							50,000	
12	Wastewater Treatment	2010	10	Husquvarna Zero Turn riding mower	R	User Fees - budget	2025/2026	15,000						15,000		
13	Wastewater Treatment	2013	13	Exmark walk behind mower	R	User Fees - budget	2024/25	7,500				7,500				
14	Wastewater Treatment	1996	15	Ingersol Rand Compressor (Trailer mounted)	R	User Fees	2010/2011	20,000								20,000
15	Wastewater Treatment	2005	20	Genie Lift (55 feet)	R	User Fees	2025/2026	100,000					100,000			
16	Wastewater Treatment	2016	10	Ford F-250 4X4 Pick-up w/plow (Operations/Collections)	R	User Fees	2027/28	40,000								40,000
17	Wastewater Treatment	1988	15	International Crane Truck	R	User Fees	2022/2023	125,000		125,000						
18	Wastewater Treatment	2019	5-yr program	Sewer System Assesment Program - Added a year	N	User Fees - budget		33,464	12,500	12,500	12,500					
19	Wastewater Treatment	2022	5-yr program	Change out compost blowers - original installation 1994 - blowers are beyond useful life at 27 years old	N	User Fees - budget		27,000		27,000	27,000	27,000	27,000	27,000	27,000	
TOTAL SEWER FUND										37,500	219,500	339,500	139,500	167,000	382,000	405,000

1	Cable Television			Cablecast and Local Head End Equipment	R	Franchise Fees				-	-	-	80,000	-	-	-
2	Cable Television			Town Hall Matthew Thornton Room Equipment	R	Franchise Fees			25,000	-	-	-	-	-	-	25,000
3	Cable Television			Town Hall Memorial Conference Room Equipment	R	Franchise Fees			-	-	-	-	-	-	-	-
4	Cable Television			Software	R	Franchise Fees			5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
5	Cable Television			Public Access Studio Equipment	A	Franchise Fees			-	20,000	-	-	-	-	-	-
6	Cable Television			Public Access Editing Systems	R	Franchise Fees			-	10,000	-	-	-	-	-	-
7	Cable Television			Media Staff Hardware	R	Franchise Fees			15,000	-	-	-	-	-	-	15,000
8	Cable Television			Public Access Cameras and Audio Equipment	R	Franchise Fees			-	10,000	-	-	-	-	-	-
9	Cable Television			Lower Power FM	A	Franchise Fees			-	-	40,000	-	-	-	-	-
10	Cable Television			Other Meeting Space	R	Franchise Fees			-	-	-	-	40,000	-	-	-
11	Cable Television			Other CATV Equipment	R	Franchise Fees			10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Total CATV FUND										55,000	55,000	55,000	95,000	55,000	15,000	55,000

1,259,350	3,430,062	2,626,845	2,560,500	1,514,050	1,998,222	3,359,110
CRF	Cap Reserve					
Funded through Budget	Funded through Budget					
922,000	681,000	1,336,345	1,798,000	1,111,000	1,098,000	2,872,110
244,850	949,562	896,000	528,000	181,050	408,222	27,000
Bonds	Bonds					
-	1,525,000	-	-	-	-	-
User Fees/Bonds	User Fees WWTF					
37,500	219,500	339,500	139,500	167,000	382,000	405,000
Private Donation						
-	-	-	-	-	95,000	-
Cable Franchise Fees	Franchise Fees					
55,000	55,000	55,000	95,000	55,000	15,000	55,000
1,259,350	3,430,062	2,626,845	2,560,500	1,514,050	1,998,222	3,359,110

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Fire House Location Study

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

NEW PROJECT

Explanation and Need: Exploratory study to determine optimal location for new fire station.

Estimated Cost:	
Design	25,000
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	
Equipment	
Trade-In Allowance	
Total	25,000

Financing:	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	25,000
Bond Proceeds	
Property Tax	
Total	25,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	25,000
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	25,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Safety Complex

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

NEW PROJECT

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	840,000
Engineering - including wetlands mitigation, ROW acquisitions, permits	260,000
Construction	9,275,000
Equipment	650,000
Trade-In Allowance	
Total	11,025,000

Financing:	
Fund Balance	1,000,000
Private Grant	265,000
User Fees (Sewer/Water)	-
Sale of Replaced Asset	1,500,000
Capital Reserve Fund (20%) (Infrastructure CRF)	429,000
Bond Proceeds	10,000,000
Property Tax	-
Total	13,194,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	13,194,000
2024-25	
2025-26	
2026-27	
2027-28	
Total	13,194,000

Safety Complex

The replacement of the Central Fire Station and the Police department are due to outgrowing the current station. The two departments have completed a space needs study and have a rough sketch of the total space needed for the new Safety Complex.

Station 1 originally constructed in 1960 as a two story fire station with 3 bays. This station was expanded in the 1996 for additional 3 bays for a total of 6 bays.

The Police Station is made up of two individual builds that have a common entry way built when the police department was relocated there in the 1994. The first was constructed in 1960 and the second was built in 1975.

Merrimack has had steady growth since these facilities were first open. Some of the latest growth includes: The Merrimack Premium Outlet Mall, Laidlaw Freight, Nanocomp, Laidlaw Crossing and additional apartments in the southern end of town. In addition with the age of these facilities it is hard to expand due to the fact that both of these locations are in Residential areas and there is no available land surrounding these facilities. The construction of a new Public Safety Complex would allow the town's first responders to be collocated in an area of town where access to the major roads is easily available.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Refurbish and add additions to the Merrimack, South Fire Station

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

NEW PROJECT

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	650,000
Equipment	
Trade-In Allowance	
Total	650,000

Financing:	
Private Grant	385,000
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (20%) (Infrastructure CRF)	265,000
Bond Proceeds	
Property Tax	
Total	650,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	650,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	650,000

South Fire Station Renovations

The South Fire Station originally constructed in 1973 as a two bay garage to house only fire apparatus. This station was expanded in the 1987 to included living quarters for 3 Fire personal. The current station does not have adequate facilities to support male and female responders.

In addition with the age of these facilities it is hard to expand to due the fact that both of this location is in a Residential area and there is no available land surrounding these facilities.

Merrimack has had steady growth since these facilities were first open. Some of the latest growth includes: The Merrimack Premium Outlet Mall, Huntsman, Laidlaw Freight, and future build out in the North/South end of the community.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Bridge Replacement - US 3 (DW Highway) @ Baboosic Brook

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: X Scope: None:

NEW PROJECT

Explanation and Need: See attached information sheet. *Per Draft 2023-2032 10 Year Plan*

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	553,161
Construction	5,822,669
Equipment	
Trade-In Allowance	
Total	6,375,830

Financing:	
State Grant (80% State Bridge Aid)	3,362,466
Brik Funding - <i>Pending Application Acceptance</i>	2,172,748
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (20%) (Infrastructure CRF)	840,616
Bond Proceeds	
Property Tax	
Total	6,375,830

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2022-23	553,161
2023-24	
2024-25	5,822,669
2025-26	
2026-27	
2027-28	
Total	6,375,830

BRIDGE REPLACEMENT – US 3 (DW HIGHWAY)

PWD CIP
FY 22 – 28

US 3 bridge over Baboosic Brook (#118/135) was constructed in 1933. The concrete arch bridge has a 20 foot span. The US 3 bridge currently has a Federal Sufficiency Rating of 60% and a National Bridge Inventory Status of *structurally deficient*. The bridge is categorized as a red list bridge.

The bridge will be in the State Bridge Aid Program in which NHDOT pays for 80% of the cost of the project, while the Municipality pays the remaining 20%. The costs on this project exceed available funding from NHDOT at this time so the Town is seeking to augment the funding through the FEMA Bric Program.

This bridge is the final road crossing of Baboosic Brook prior to its convergence with the Souhegan River. Hydraulic analysis of the brook performed by the Town's bridge consultant shows that the current structure constricts flow, causing higher 50 and 100 year storm elevations upstream. Replacement of this structure will improve safety along the US 3 corridor by having a wider road and sidewalks, and will have the added benefit of allowing the McGaw Bridge Rd and Bedford Rd bridges to be constructed at lower elevations due to the reduced flood elevation.

The 2019 AADT (Average Annual Daily Traffic) for this bridge is 14,565. Construction is expected to begin in 2025.



US 3 looking north.



US 3 bridge, downstream side.



Bank erosion from high velocity flows through current structure..

PROJECT REQUEST FORM

Project: Bridge Rehabilitation - US 3 (DW Highway) @ Souhegan River Chamberlain

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: X - 2032 Scope: None: (Check all that apply).

Not in the State Bridge Aid Program at this time (not accepting applications)

NEW PROJECT

Explanation and Need: See attached information sheet.

Estimated Cost:

Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	52,500
Construction	297,500
Equipment	
Trade-In Allowance	
Total	350,000

Financing:

State Grant (80% State Bridge Aid)	280,000
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (20%) (Infrastructure CRF)	70,000
Bond Proceeds	
Property Tax	
Total	350,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	350,000
Total	350,000

* part will be completed in conjunction with TAP Grant (Souhegan River Trail)

BRIDGE REPAIR – CHAMBERLAIN BRIDGE OVER SOUHEGAN RIVER (DW HIGHWAY)

PWD CIP
FY 22 – 28



View of Souhegan River –
Down stream.



Chamberlain Bridge, upstream side.



Canal for Multi-Use Path

Chamberlain Bridge over the Souhegan River on Daniel Webster Highway (#116/120) was constructed in 1921 and Reconstructed in 1934. The stone/concrete arch bridge has a 2 arches and a total span of 113 feet. The US 3 bridge currently has a Federal Sufficiency Rating of 28% and a National Bridge Inventory Status of *structurally deficient*. The bridge has been categorized as a red list bridge.

The bridge is expected to be in the State Bridge Aid Program in which NHDOT pays for 80% of the cost of the project, while the Municipality pays the remaining 20%. Currently the State is not accepting new applications.

This bridge has a maximum span of 60 feet over the Souhegan River. The length of the bridge is a total of 113 feet and 42 feet wide with a curb to curb travel lane width of 32 feet. Part of the repairs will be completed within the Souhegan River Trail project. The Main Arch will be rehabilitated including masonry repointing and some concrete patching.

The 2019 AADT (Average Annual Daily Traffic) for this bridge is 13,596.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Stormwater Drainage Improvements

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	25,000
Engineering - including wetlands mitigation, ROW acquisitions, permits	25,000
Construction	2,000,000
Equipment	
Trade-In Allowance	
Total	2,050,000

Financing: (ANNUAL)	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	2,050,000
Bond Proceeds	
Property Tax	
Total	2,050,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	250,000
2022-23	250,000
2023-24	275,000
2024-25	300,000
2025-26	325,000
2026-27	325,000
2027-28	325,000
Total	2,050,000

STORMWATER DRAINAGE IMPROVEMENTS

PWD CIP
FY 22 – 28

The Public Works Department maintains a prioritized list of drainage improvement projects. The list is updated twice each year. Projects are scored based on criteria in 4 subject areas – Public Health and Safety; Private Property Impacts; Public Property Impacts; and Secondary Factors. Projects are also classified as a Highway Division project, a Contractor project, or a combination of the two.

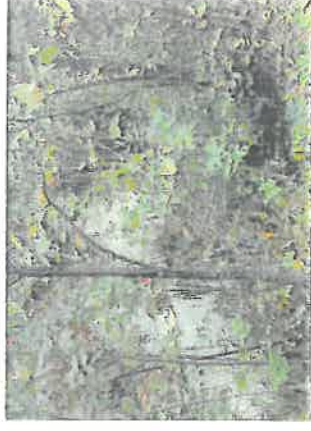
11

The Town utilizes Public Works forces or contracted services to maintain and improve the existing drainage infrastructure through this program. Recent projects completed include:

- Adding structures to eliminate a flooding area at Joppa Road and Derry Street intersection
- Eliminating a flooding issue at the intersection of Burt Street and Valleyview Drive
- Repairing drainage issues at McElwain Street and Woodbury Street (as part of the sidewalk project)
- Baboosic Lake Road at Maidstone Drive



Roadway & Driveway Damage.



Deteriorating CMP Pipe



Culvert Extensions

Capital Improvements Program

PROJECT REQUEST FORM

Project: Sidewalk

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: See Attached Information Sheet

Estimated Cost:

Design	20000
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	180,000
Equipment	
Trade-In Allowance	
Total	200,000

Financing:

Federal/State Grant	0
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	
Property Tax	200,000
Total	200,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2022-23	
2023-24	200,000
2024-25	
2025-26	
2026-27	
2027-28	
Total	200,000

SIDEWALK IMPROVEMENTS

The Town Center Pedestrian and Trail Master Plan has outlined many areas within the Town Center that are in need of sidewalks. The top priority of the TCC is a sidewalk on Woodbury Street, which is currently under construction. The next priority for the TCC is the construction of a sidewalk on Twin Bridge Road which is a key part of the completion of the loop trail from Twin Bridge Park to Twin Bridge Road and back to the MYA facility once the Wire Road intersection sidewalks and the US 3 bridge over Baboosic Brook sidewalks are completed (part of other CIP projects).

Other priorities of the TCC include sidewalks along Daniel Webster Highway and Baboosic Lake Road (Library to O’Gara Drive and then to the Middle School), as well as Continental Boulevard.



Daniel Webster Highway – MYA



DWH@ Baboosic Lake Rd Crossing



DWH towards Loop Rd

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Woodland Drive Phase II Drainage Improvements

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: X Scope: None: (Check all that apply).

Do the drainage and pavement for each road, one per year - No Bond

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	132,000
Construction	2,118,000
Equipment	
Trade-In Allowance	
Total	2,250,000

Financing: (ANNUAL)	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	2,250,000
Bond Proceeds	
Property Tax	
Total	2,250,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	

Project Period:	
2022-23	375,000
2023-24	375,000
2024-25	375,000
2025-26	375,000
2026-27	375,000
2027-28	375,000
Total	2,250,000

WOODLAND DRIVE – PHASE II DRAINAGE IMPROVEMENTS

Phase II of the Woodland Drive area drainage improvements will improve sections of the following roads:

Fernwood Drive,
Timber Lane,
Hartwood Drive,
Pinetree Lane,
Birchwood Drive,
Deerwood Drive
Forest Drive



**Capital Improvements Program
PROJECT REQUEST FORM**

Paving - Infrastructure Improvements

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	8,820,000
Equipment	
Trade-In Allowance	
Total	8,820,000

Financing: (ANNUAL)	
Federal/State Grant	
Private Grant	
User Fees (Road Improvement Registration Fee) (\$125K/YR)	875,000
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	
Property Tax	7,945,000
Total	8,820,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	1,100,000
2022-23	1,160,000
2023-24	1,210,000
2024-25	1,270,000
2025-26	1,310,000
2026-27	1,360,000
2027-28	1,410,000
Total	8,820,000

PAVING / INFRASTRUCTURE IMPROVEMENTS

PWD CIP
FY 22 – 28

The Public Works Department maintains over 475 roads totaling approximately 180 centerline miles. The Department uses a pavement management database in which physical road distresses for each road are tabulated to derive a PCI (Pavement Condition Index) for each public road. This data, along with traffic volumes, drainage/sewer projects, funding, and other factors are used to develop the paving/infrastructure improvement program for the year. In 2020, we are planning projects on Bedford Road and Amherst Road along with sealing treatments on recently paved roads.

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All or part of the following roads were paved during the past two years:

2021 – Wire Road had emulsion stabilization FDR in the top 4 inches, was reclaimed to an 8 to 12 inch depth, paved with $\frac{3}{4}$ inch Superpave base for a depth of 2 inches and a final top of $\frac{1}{2}$ " for a depth of 1.5 inch. Other roads paved included Joppa Road from Bedford Road to Derry Street, McQuestion Street, Windover Lane, Level Street, Douglas Street, Cedar Lane, Arbor Street, Spruce Street, Beech Street and Stowell Road. The crack sealing will be completed next year.

2020 – Bedford Road had emulsion stabilization FDR in the top 4 inches, was reclaimed to an 8 to 12 inch depth, paved with $\frac{3}{4}$ inch Superpave base for a depth of 2 inches and a final top of $\frac{1}{2}$ " for a depth of 1.5 inch. Other roads paved include Lois Ln, Back River Rd, Derry St, Burt St, Dover St, French Ct, Tinker Road and Front St. Many roads were cracked sealed.



Paving Binder on Reclaimed Base.



New Ln Lines on Pavement.



Alligator Cracked Roadway.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Paving - Gravel Roads

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	50,000
Engineering - including wetlands mitigation, ROW acquisitions, permits	15,000
Construction	835,000
Equipment	
Trade-In Allowance	
Total	900,000

Financing: (ANNUAL)	
Federal/State Grant	
Private Grant	
User Fees (Road Improvement Registration Fee) (\$125K/YR)	
Sale of Replaced Asset	
Capital Reserve Fund	900,000
Bond Proceeds	
Property Tax	
Total	900,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	300,000
2026-27	
2027-28	600,000
Total	900,000

PAVING / INFRASTRUCTURE IMPROVEMENTS

GRAVEL ROADS

PWD CIP
FY 22 – 28

Merrimack has 16 gravel roads. Grading and reshaping the gravel roads uses approximately 300-400 man hours each year. Public Works proposes to systematically pave the gravel roads to reduce the maintenance burden. By constructing the paved roads with proper ditchlines, the effect of the added impervious area will be mitigated by treating the stormwater. The paved road has the added benefit of not being susceptible to erosion that contributes to silty runoff into neighboring waterbodies.

A secondary goal of this program is to eliminate the need to replace the motor grader. Currently, the existing 1997 grader is scheduled to be replaced in 2022 at an estimated cost of \$250,000.

The roads initially targeted in this program are:

- Fuller Mill Road
- Lester Road
- Greens Pond Road

The Chestnut Hill development project improved Old Blood Road from gravel to paved surface in 2020 (see photo to right).



Greens Pond Rd – note erosion to the right



Lester Rd – will include realigning the “Y” intersection to a “T” intersection



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Paving and Preservation- Daniel Webster Highway

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: X Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	400,000
Equipment	
Trade-In Allowance	
Total	400,000
Financing: (ANNUAL)	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	400,000
Bond Proceeds	
Property Tax	
Total	400,000
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0
Project Period:	
2021-22	
2022-23	200,000
2023-24	
2024-25	
2025-26	200,000
2026-27	
2027-28	0
Total	400,000

PAVING DANIEL WEBSTER HIGHWAY

The Town of Merrimack is responsible for maintenance on the Class IV section of Daniel Webster Highway which runs from Greeley St to Bedford Rd, a distance of approximately 4.9 miles.

In 2011, the Town rehabilitated the section from Greeley St to the Chamberlain Bridge over the Souhegan River. In 2015, the Town repaved the section from the Chamberlain Bridge to Reeds Ferry Lumber. Both projects involved the expense of milling off the old wearing course of pavement and replacing with a new 1 ½” wearing course. The work planned in upcoming years includes continued crack sealing and bonded wearing courses in place of more expensive overlays as a more cost effective treatment aimed at keeping the road in good condition before more costly rehabilitation methods are needed. In 2019 the entire length of Daniel Webster Highway was cracked sealed. In 2022 the plan will be to place a bonded wearing course to preserve the existing pavement thus “keeping the good roads good”.

The latest traffic counts along the corridor range from 12,000 to 16,000 AADT.



DW Highway Paving



DW Pavement Grinding



DW Repair Prior to Paving

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Wire Road Intersection Improvements

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: X - 2027 Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet. *In Draft 2023-2032 10 Year Plan*

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	106,767
Construction	1,007,608
Equipment	
Trade-In Allowance	
Total	1,114,375

Financing:	
Federal/State Grant (80%)	891,500
Private Grant	
User Fees (Unearned Impact Fees) (Reeds Ferry Crossing)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	222,875
Bond Proceeds	
Property Tax	
Total	1,114,375

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	106,767
2026-27	1,007,608
2027-28	
Total	1,114,375

WIRE ROAD INTERSECTION IMPROVEMENTS

PWD CIP

FY 22 – 28

The Wire Rd intersection with Daniel Webster Highway is poorly aligned. This project will improve safety by realigning the intersection.

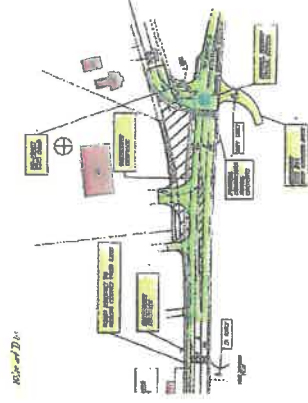
There have been 19 accidents at the existing intersection from the period of January 1, 2006 to September 18, 2012. Of those, fourteen involved property damage, four resulted in personal injury, one involved a school bus, and one was uninvestigated.

Various options will be considered: Sharp curve to align Wire road at a 90 degree angle to Daniel Webster Highway with traffic signals or stop sign (depending on the signal warrant study), or a roundabout intersection. As part of the project, a new point of ingress/egress to the Twin Bridge Park/Bise Field/MYA Building facilities that would improve safety versus the existing drive.

The project is currently in the NH DOT 10 year plan and payment will be an 80/20 split (Federal \$/Town \$). Construction of the intersection is scheduled for 2027.



Aerial View of Wire Road/DW Highway Intersection.



Signalized Intersection.



Roundabout Intersection.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Merrimack River Boat Ramp Access Improvement

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

New Project.

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	0
Engineering - including wetlands mitigation, ROW acquisitions, permits	80,000
Construction	320,000
Equipment	
Trade-In Allowance	
Total	400,000

Financing:	
Federal/State Grant	200,000
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	200,000
Bond Proceeds	
Property Tax	
Total	400,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	400,000
Total	400,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Seaverns Bridge Canoe Launch Ramp - Slope Stabilization

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: X - 2022 Scope: X - Added Canoe Launch None:

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	5,000
Construction	90,000
Equipment	
Trade-In Allowance	
Total	95,000

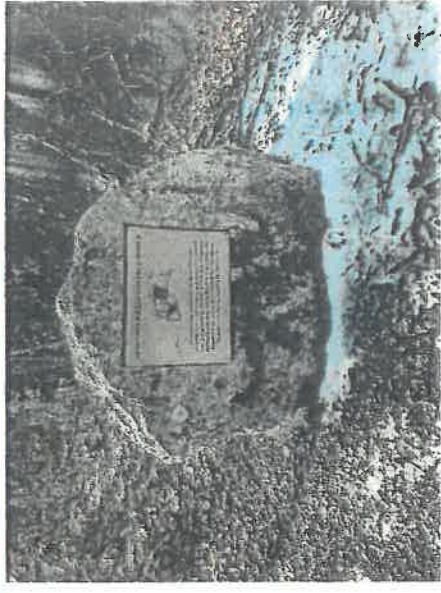
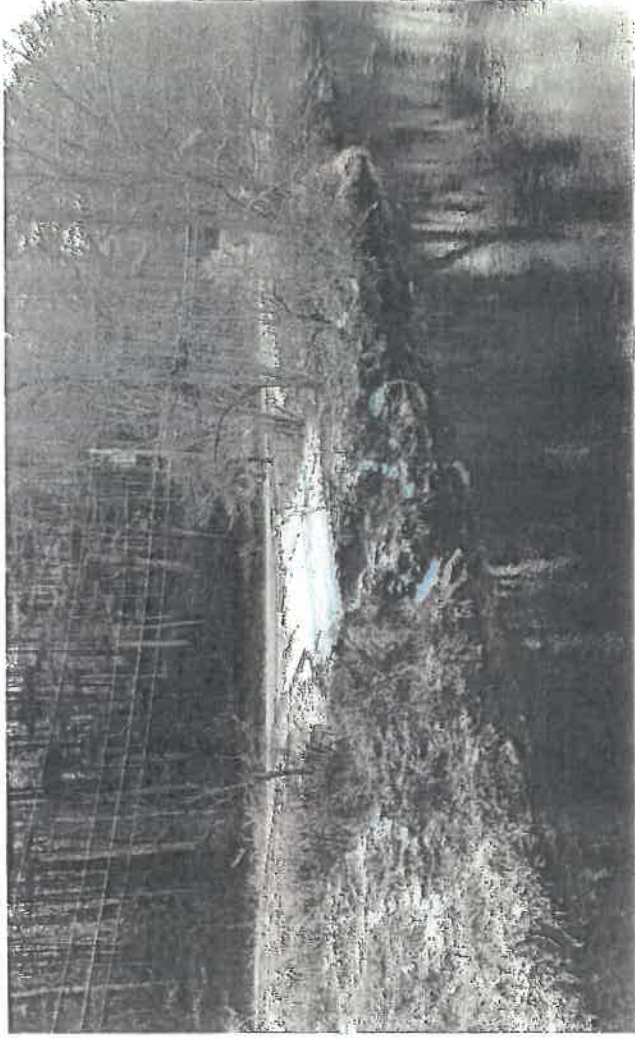
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (Infrastructure CRF)	95,000
Bond Proceeds	
Property Tax	
Total	95,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2020-21	50,000
2021-22	45,000
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
Total	95,000

SEAVERNS BRIDGE SLOPE STABILIZATION

At the intersection of Seaverns Bridge and Amherst Road where the existing canoe launch is located, the banks of the Souhegan River are eroding into the river. In order to preserve the banking, slope stabilization needs occur to prevent any further damage before it reaches and impacts the road infrastructure. The canoe launch will be incorporated into the stabilization.



Original Bridge Plaque



Concrete Barriers

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Sidewalk Construction: Souhegan River Trail

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: X Scope: None: (Check all that apply).

In Draft 2023-2032 10 Year Plan

Explanation and Need: See Attached Information Sheet

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	
Construction	936,960
Equipment	
Trade-In Allowance	
Total	936,960

Financing:	
Federal/State Grant	749,568
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	187,392
Bond Proceeds	
Property Tax	
Total	936,960

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	462,012
2023-24	474,948
2024-25	
2025-26	
2026-27	
2027-28	
Total	936,960

SOUHEGAN RIVER TRAIL

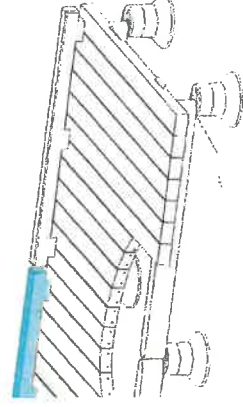
The Town of Merrimack was awarded a grant opportunity through FHWA/NHDOT to construct a multi use trail that will connect Watson Park to the pedestrian bridge over the Souhegan River that is adjacent the Everett Turnpike bridge. The trail is proposed to run under the Chamberlain Bridge through the sluiceway and across the former impoundment area of the Merrimack Village Dam.

Included in the project will be repairs to the failed sidewalk on the northeast end of the Chamberlain Bridge and repair of a concrete support beam for the Chamberlain Bridge.

The project is currently in the design phase and is currently awaiting of a contract amendment to design a boardwalk across the former impoundment area as required by NHDES. Design of the project is expected to continue through the next year with construction beginning in December, 2022.



Historic view of sluiceway and headgate



Typical Boardwalk Section



Failed sidewalk on DW Hwy

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Sidewalk Construction: US Route 3 - Daniel Webster Highway - 3,600 LF

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: X (Eng/ROW 2023)(Const 2032) Scope: None:

New Project: In Draft 2023-2032 10 Year Plan

Explanation and Need: See Attached Information Sheet

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	214,545
Construction	1,394,495
Equipment	
Trade-In Allowance	
Total	1,609,040
Financing:	
Federal/State Grant	1,287,232
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	321,808
Bond Proceeds	
Property Tax	
Total	1,609,040
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0
Project Period:	
2021-22	
2022-23	
2023-24	153,643
2024-25	
2025-26	
2026-27	
2027-28	1,455,397
Total	1,609,040

DANIEL WEBSTER HIGHWAY SIDEWALK CHAMBERLAIN BRIDGE TO 360 PLAZA

PWD CIP
FY 22 – 28

In March 2021, The Town of Merrimack applied for a grant through FHWA/NHDOT to construct sidewalks along DW Highway from the Chamberlain Bridge south to near the 360 plaza. The project will allow the Town of Merrimack to continue to achieve sidewalk priorities as outlined in the 2009 Town Center Pedestrian and Trail Master Plan.

The Town has been notified that our application scored well and the project will be included in the draft NHDOT Ten Year Plan. The Town of Merrimack's project achieved a ranking of 8 out of the 34 applications received State wide. Since the Transportation Alternatives Program (TAP) has been incorporated into the State of New Hampshire Draft Ten Year plan, the plan won't be finalized until there is approval by the Governor and Legislature in June 2022.

Funding for the project, once approved, will become part of the 2023-2032 State of NH Ten Year Plan and will have funding starting in October, 2022 (Federal Fiscal Year 2023). The engineering for the project can begin in 2023 and construction is not scheduled until 2032 according to the 10 year plan (possibility to advance).



DWH at Chamberlain Bridge



West side DWH – new sidewalk area



DWH at 360 Plaza

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Sewer Line Ext. McQuestion and Mayflower Sewer Basin

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: Combined Projects None: (Check all that apply).

New Project.

Explanation and Need: See attached information sheet.

Estimated Cost:

Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	360,000
Construction	2,000,000
Equipment	
Trade-In Allowance	
Total	2,360,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	590,000
Bond Proceeds	1,770,000
Property Tax	
Total	2,360,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	
2023-24	
2024-25	2,360,000
2025-26	
2026-27	
2027-28	
Total	2,360,000

SEWER EXTENSION PROJECT – MASTER PLAN

PWD CIP
FY 22 – 28

The Town commissioned an updated sewer master plan in 2013. This plan replaced previous plans that were created in 1977 and 1990. The top priority project (*Naticook Lake East Collector Sewers*) was completed in 2015.



Naticook Lake East Collector.

The Master Plan ranks projects based on a number of factors including impediments to onsite sewage treatment, access to existing collection system, environmental concerns, consistency with community master plan and unit costs.



Mayflower Dr Collector.

The *Mayflower Dr Collector Sewers* project (MP Priority #3) would allow for approximately 43 homes to hook up to sewer. The project involves constructing approximately 2,400 linear feet of 8 inch diameter collector sewer. The roads in the area are in poor condition (Powderhouse and Minuteman – PCI of 31; Pilgrim and Mayflower – PCI of 54 and 54).

The *McQuestion Rd North Collector Sewers* project (MP Priority #2) would allow for approximately 44 homes to hook up to sewer. The project involves constructing approximately 6,400 linear feet of 8 inch diameter collector sewer in parts of McQuestion Rd, Meadow View Ln and Merrymeeting Dr.



McQuestion Rd Collector.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Depot Street Boat Ramp Repairs

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: See attached information sheet.

Estimated Cost:	
Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	5,000
Construction	145,000
Equipment	
Trade-In Allowance	
Total	150,000
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	150,000
Bond Proceeds	
Property Tax	
Total	150,000
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0
Project Period:	
2021-22	
2022-23	150,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	150,000

DEPOT STREET BOAT RAMP REPAIRS

The Depot Street boat launch provides access for smaller boats and canoes (hand carried) to access the Merrimack River. The access to the boat ramp is located on Depot Street where there is a parking area, a park area, and a box culvert tunnel under the railroad tracks containing a path to the river.

The end of the access has become badly damaged due to the currents of the river. Much of the stones and soils that comprised the end of the access have been washed away. Repair options are limited to machinery and materials that can fit through the box culvert as the railroad tracks prevent other access routes.

Design of the repairs to the ramp are proposed to occur in 2022 with construction proposed to be in 2022. State wetland permits will be required as part of the design process and construction will need to be completed during low flow periods.



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Pedestrian Bridge over Souhegan River Replacement

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: X Scope: None: (Check all that apply).

NEW PROJECT: In Draft 2023-2032 10 Year Plan

Explanation and Need: See attached project info slide

Estimated Cost:	
Design	291,828
Engineering - including wetlands mitigation, ROW acquisitions, permits	6,000
Construction & Installation & Programming	880,000
Equipment	
Trade-In Allowance	
Total	1,177,828

Financing:	
State Grant (80% State Bridge Aid)	942,262
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (20%) (Infrastructure CRF)	235,566
Bond Proceeds	
Property Tax	
Total	1,177,828

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	297,828
2027-28 *** In Draft 2023-2032 10 Year Plan - Placeholder	880,000
Total	1,177,828

PEDESTRIAN BRIDGE OVER SOUHEGAN RIVER

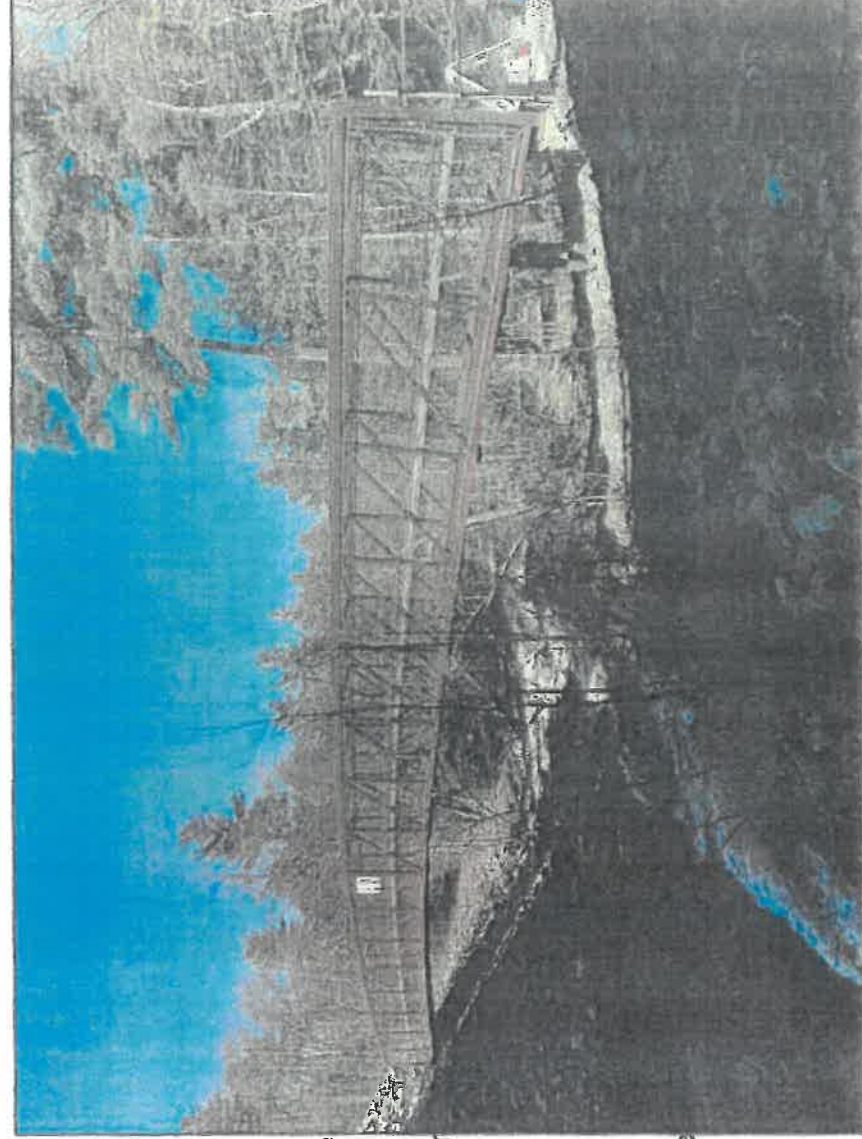
PWD CIP
FY 22 – 28

The existing Pedestrian Bridge is a single span 134 foot long and 6 foot wide prefabricated High Truss Bridge manufactured by Continental Custom Bridge Company. The superstructure was acquired from the City of Portsmouth and was put into place on cast-in-place concrete abutments in 2011.

The bridge is located just easterly from the FE Everett Turnpike and has deteriorated due to the moisture from the river and the salt sprat from the FEET. The bridge has been an invaluable resource connecting the Wildcat Falls Conservation Area extensive trail system together with the residents.

In the fall of 2019 NH DOT bridge inspectors determined there were structural defects in the pedestrian bridge crossing over the Souhegan River. The decision was made to close the bridge on April 24, 2020, after our hired structural engineering firm performed a detailed structural analysis.

The bridge is in the NH DOT Draft Ten Year Plan that is waiting for acceptance in June 2022. Engineering and ROW is expected to begin in 2027 and construction to follow in 2032.



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Replace Fuel Station and Tanks

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: 1,100,000 Year: 2027 Scope: None: (Check all that apply).

NEW PROJECT

Explanation and Need: See attached information sheet.

Estimated Cost:

Design	
Engineering - including wetlands mitigation, ROW acquisitions, permits	100,000
Construction	1,000,000
Equipment	
Trade-In Allowance	
Total	1,100,000

Financing:

State Grant (80% State Bridge Aid)	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (20%) (Infrastructure CRF)	1,100,000
Bond Proceeds	
Property Tax	
Total	1,100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

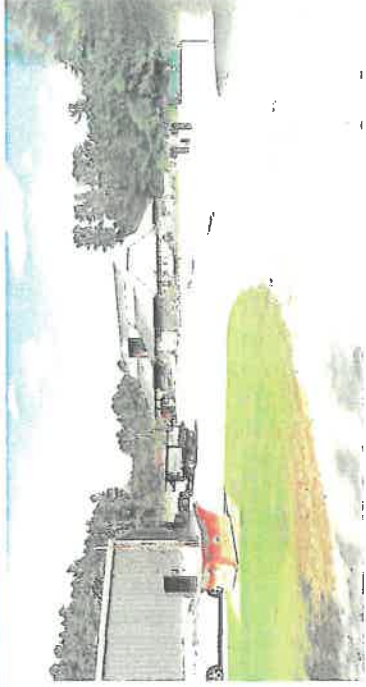
Project Period:

2022-23	
2023-24	1,400,000
2024-25	
2025-26	
2026-27	
2027-28	
Total	1,400,000

HIGHWAY DEPARTMENT FUEL TANK, PIPING AND CANOPY REPLACEMENT

PWD CIP
FY 22 – 28

The fuel tanks located at the Highway Garage were installed in 1997 and are in need of replacement. These tanks are used by all of the Departments in Town that have vehicles. The fuel tanks have a thirty year life span which would be in 2027. At this time, NHDES is strongly suggesting that the type of piping that we have installed (model PP1501) be replaced sooner rather than later due to its tendency to deteriorate. The pumps and control system were replaced in 2019 and can be reused. This project would include replacing 2 – 10,000 gallon fuel tanks, all piping, concrete apron and canopy installation.



Capital Improvements Program

PROJECT REQUEST FORM

Project: Library HVAC System

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: Upgrade of HVAC system to improve air exchange in light of COVID-19 concerns regarding airborne particles.

We've previously submitted a replacement of the HVAC system in conjunction with a building renovation but this project has become more urgent.

Estimated Cost:

Design	
Construction	
Equipment	100,000
Trade-In Allowance	
Total	100,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	100,000
Bond Proceeds	
Property Tax	
Total	100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	100,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	100,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Library Sprinklers

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: replacement of sprinkler system.

May coincide with future renovation projects.

This project had been submitted on an earlier CIP but didn't show up on the 19-20 one so we are resubmitting.

Estimated Cost:

Design	
Construction	
Equipment	100,000
Trade-In Allowance	
Total	100,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	100,000
Bond Proceeds	
Property Tax	
Total	100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	100,000
2027-28	
Total	100,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Library Sidewalk Replacement

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: replacement of all library sidewalks: along parking lot side of building;

Baboosic side and corner; DW side of building

May coincide with future renovation projects

Estimated Cost:

Design	
Construction	100,000
Equipment	
Trade-In Allowance	
Total	100,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	100,000
Bond Proceeds	
Property Tax	
Total	100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	100,000
2027-28	
Total	100,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Library Slate Roof

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: Slate Roof needs to be repaired or replaced because of leaks and ice dams.

Estimated Cost:

Design	
Construction	100,000
Equipment	
Trade-In Allowance	
Total	100,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	100,000
Bond Proceeds	
Property Tax	
Total	100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	100,000
2027-28	
Total	100,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Library Elevator

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: replacement of elevator

May coincide with future renovation projects.

Estimated Cost:

Design	
Construction	
Equipment	100,000
Trade-In Allowance	
Total	100,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	100,000
Bond Proceeds	
Property Tax	
Total	100,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	100,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	100,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: New Library

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: Merrimack has outgrown the 1979 library addition.

Placeholder for new construction dependent on updated evaluation - see CIP for Library Evaluation.

Estimated Cost:

Design	
Construction	
Equipment	
Trade-In Allowance	
Total	0

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	6,000,000
Property Tax	
Total	6,000,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	6,000,000
2027-28	
Total	6,000,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: 2025 Master Plan Update

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: funding of professional planning consultant services to assist Planning Board in updating to the existing 2013 Master Plan.

Estimated Cost:	
Design	200,000
Construction	
Equipment	
Trade-In Allowance	
Total	200,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	
Property Tax	200,000
Total	200,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	200,000
2025-26	
2026-27	
2027-28	
Total	200,000

**Capital Improvements Program
PROJECT REQUEST FORM**

1. Description of Project: Athletic Field Development: Greenfield Farms, Pearson Road

2a. Was this same project reflected in the prior CIP? Yes

2b. If 2a = yes, indicate areas of significant changes reflected in this Project Request Form and briefly explain why the changes have been made: cost _; year _; scope __; none X

(check all that apply)

Explanation and Need: Development of two athletic fields on the Greenfield Farms site on Pearson Road (see attached information sheet)

Estimated Cost:	750,000
Design	0
Engineering	0
Construction	0
Equipment	0
Bond issue costs	0
Temporary housing	0
Total	0
Financing:	
Federal/State Grant	0
Private Grant	0
User Fees (Sewer/Water)	0
Sale of Replaced Asset	0
Capital Reserve Fund	0
Bond Proceeds	750,000
Property Tax	0
Total	750,000
Impact on Operating Budget:	
Personnel	0
Maintenance	0
Insurance	0
Utilities	0
Total	0
Project Period:	
2022-23	
2023-24	
2024-25	750,000
2025-26	
2026-27	
2027-28	
Total	750,000

New Athletic Fields

P&R CIP

FY 21-28

In 2010, the Town Athletic Fields Committee produced a report that said the Town was short 21 athletic fields to meet the needs of the Community. Since that time, that need has only increased but no plan was put forth until now because there were not any viable options where new athletic fields could be built. As a result, our existing fields are overused to the point where they aren't in great condition since they get used 7 days a week from April to November. The Parks & Recreation Committee conducted a community survey in Winter 2019. Overwhelmingly, the responses were directed at asking us to focus improving the quality of our athletic fields and / or building new athletic fields. We have been working with the various field users for a number of years trying to find options to building athletic fields and there have not been a lot of great options. Many of the Town owned sites are expensive to build on, sit on ledge, and have a lot of water on the site among other issues.

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With the Town taking possession of Greenfield Farms, we now a viable option for new athletic fields. Town Engineer Dawn Tuomala drew up a set of plans to see what might be possible on this site and she found that we could fit two athletic fields along with the associated parking on the site. The first field would be a full sized soccer/lacrosse field (180 x 330) and the other would tentatively be a U 10 sized soccer field (120 x 180). This project would fit a significant need that the community has been facing for a long time. Based on past projects, the cost to build 1 grass field with associated parking and other amenities is around \$350,000 per field so around \$700,000 for 2 fields. We have put the estimate at \$750,000 since costs have increased in recent years and because we are still a few years away from being able to complete this project.

\$750,000 was put into the CIP for FY 24-25 to for Athletic Field Development and we'd like to build 2 fields at the Greenfield Farms property on Pearson Road. While lights would be extremely helpful since it gives us additional hours of use; we're probably looking at another \$300,000 to add in lights. The current line item is \$750,000 and so I would be hesitant to add a 25% at the potential of it derailing the entire project. I would prefer to get the fields put in and worry about the lights down the road when we have another lighting project that needs to be done. *There is a potential to obtain a matching grant from the Land & Water Conservation Fund which would further reduce the cost of this project.

**Capital Improvements Program
PROJECT REQUEST FORM**

Relocate Sewer Connector under FEET

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: FY Scope:

Explanation and Need: See attached information sheet

Estimated Cost:	
Design	50,000
Engineering -	50,000
Construction	400,000
Contingency	
Trade-In Allowance	
Total	500,000
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water) State Revolving Loan Fund or Bond	
Sale of Replaced Asset	
Capital Reserve Fund	500,000
Bond Proceeds	
Property Tax	
Total	500,000
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0
Project Period:	
2021-22	
2022-23	
2023-24	500,000
2024-25	
2025-26	
2026-27	
2027-28	
Total	500,000

SEWER RELOCATION UNDER EVERETT TURNPIKE

PWD CIP
FY 21 - 28

This project was known in previous CIPs as the Executive Park Drive Pump Station. NHDOT is working toward widening the two-lane sections of the F.E.E.T. in Merrimack – as part of that project they are replacing the concrete box culvert that carries Naticook Brook and our sewer pipe under the Turnpike. By coordinating our project with the NHDOT work we can provide a new crossing under the turnpike outside of the brook at a cost similar to or less than the pump station concept. The gravity pipe will eliminate the maintenance requirements associated with a pump station. Estimated cost to construct this project independent of the NHDOT work is \$500,000.



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Phase III plant and TF and Souhgan pump station improvements

Project same as reflected in prior CIP? Yes: No: X

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: X Year: FY 19/20 Scope: Added TF and Souhegan pump station projects and adjusted costs for project.

Explanation and Need: See attached information sheet

Estimated Cost:	
Design Final	1,600,000
Engineering -	
Construction	20,520,000
Contingency	
Trade-In Allowance	
Total	22,120,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water) State Revolving Loan Fund or Bond	
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	22,120,000
Property Tax	
Total	22,120,000

Impact on Operating Budget:	
Personnel	0
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	22,120,000
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	22,120,000

PHASE III WASTEWATER FACILITY AND PUMP STATIONS IMPROVEMENTS

PWD CIP
FY 21-28

The headworks building, compost building and the wash water upgrades will be completed as part of future projects. The total loan for the project is \$22.62 million. The annual bond payment for this load will begin in 2024

Major Construction Components include:

- Comprehensive Upgrade of Main Pump Station
- Upgrade of Thornton's Ferry Pump Station
- Upgrade of Souhegan Pump Station.
- Replacement of collectors/mechanisms on the secondary clarifiers, one primary clarifier,
- Sludge pump and controls and piping replacement for primary sludge,
- sludge tank modifications,
- emergency backup generator replacement,
- SCADA related improvements,



Main Pump Station



Headworks Piping



Sludge Storage Tanks



Emergency Generators



Main Pump Station 1970



Souhegan pump station 1972



Clarifier Mechanisms

Capital Improvements Program PROJECT REQUEST FORM	
Project: WW TREATMENT PLANT Phase III-B Upgrades	
Project same as reflected in prior CIP? Yes: No: <input checked="" type="checkbox"/>	
If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: <input checked="" type="checkbox"/> Year: Scope: None: (Check all that apply).	
Explanation and Need: Upgrade components that were removed from the Phase III Bid because of cost.	
Estimated Cost:	
Design	250,000
Engineering - Construction Administration	347,000
Construction - includes purchase of equipment - Estimate provided by Methuen/Wright Pierce	9,716,000
Equipment	
Trade-In Allowance	
Total	10,313,000
Financing:	
Federal/State Grant	4,300,000
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds - SRF Loan	6,013,000
Property Tax	
Total	10,313,000
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0
Project Period:	
2020-21	
2021-22	0
2022-23	10,313,000
2023-24	0
2024-25	0
2025-26	0
2026-27	0
Total	10,313,000

Upgrade of components that were removed from the Phase III Bid Price

- The Bid Opening for the Phase III Upgrade was March 17, 2021.
 - \$7.1 million dollars over the engineering budget developed in 2020.
- The Upgrade Project was scaled back.
- Phase III-B Project – will complete the project components which were previously removed and take advantage of up to \$2,000,000 in NHDES ARPA grant funds.
- Town ARPA funds of \$2,300,000 will also be utilized to complete the screenings building.

Town of Merrimack, New Hampshire WWTF Phase III & Pump Stations Upgrade Phase III-B	
<u>Base Bid</u>	Cost Estimate
Screenings Building	\$2,600,000
Chlorination Building	\$880,000
Wash Water Piping	\$425,000
Compost Facility	\$1,885,000
Saw Dust Shed	\$1,000,000
	Base Bid Subtotal:
	\$1,800,000
<u>Bid Alternates</u>	
Bid Alt B - Headworks Building Modifications (2nd floor)	\$85,000
Bid Alt C - Algae Sweeps for Secondary Clarifiers	\$1,885,000
	Bid Alternate Subtotal:
	\$8,675,000
	Base Bid + Bid Alts Total:
	\$9,108,750
Construction Inflation Escalation 5%	\$433,750
5% Contingency	\$173,500
2% NHDES Administrative Fees	\$347,000
Construction Administration	
Design/Engineering (Develop Bid Packages & Bidding)	\$250,000
	Total
	\$10,313,000

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Upgrade Pennichuck Square Pump Station

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in 1982. The life expectancy of the pump station is 20-30 years. The station is now 37 years old and all the components have begun to fail. Remove and replace pumps, controls, and alarm system. In addition, the flume would be relocated.

Estimated Cost	
Design	50,000
Engineering	
Construction	500,000
Equipment	
Trade-In Allowance	
Total	550,000

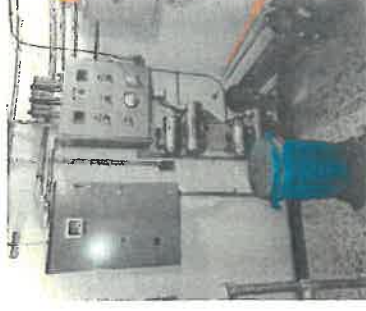
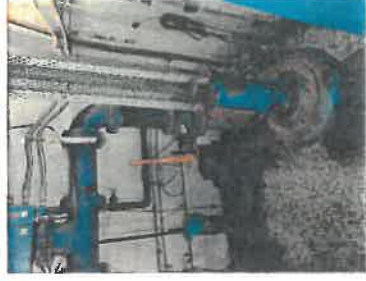
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	500,000
Sale of Replaced Asset	
Capital Reserve Fund	50,000
Bond Proceeds	
Property Tax	
Total	550,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	50,000
2023-24	
2024-25	
2025-26	500,000
2026-27	
2027-28	
Total	550,000

Pennichuck Square Pump Station Upgrade

- The life expectancy of the pump stations is 20-30 years. Upgrading each of the pumps stations below will include replace pumps, controls, and alarm system.
- **Pennichuck Square Pump Station** - The station was built in 1972. The station is now 49 years old and all the components have begun to fail.
- Estimated Upgrade Cost - \$550,000
 - \$50,000 for engineering design
 - \$500,000 for construction



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Upgrade Pearson Road Pump Station

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in early 1990's. The life expectancy of the pump station is 20-30 years. The station is now 29 years old and all the components have begun to fail. Remove and replace pumps, controls, generator, and alarm system. Pour a new concrete pad for the foundation for the generator.

Estimated Cost	
Design	
Engineering	
Construction	125,000
Equipment	125,000
Trade-In Allowance	
Total	250,000

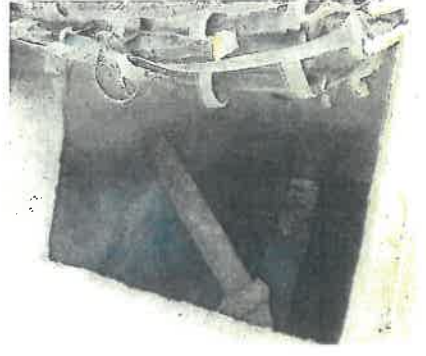
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	25,000
Town of Bedford	225,000
Bond Proceeds	
Property Tax	
Total	250,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	250,000
2026-27	
2027-28	
Total	250,000

Pearson Road Pump Station Upgrade

- The life expectancy of the pump stations is 20-30 years. Upgrading each of the pumps stations below will include replace pumps, controls, and alarm system.
- **Pearson Road** - This station is 30 plus years old and components are beyond their useful life and some components have begun to fail. The Town of Bedford is responsible for 90% of the Upgrade Costs.
- Estimated Upgrade Cost - \$250,000
 - \$25,000 for engineering design
 - \$250,000 for construction



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Upgrade Burt Street Pump Station

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in the early 1980's. The life expectancy of the pump station is 20 - 30 years. The station is now 36 plus years old and all the components have begun to fail. Upgrade wil include removing and replacing pumps, controls, and alarm system.

Estimated Cost	
Design	25,000
Engineering	
Construction	125,000
Equipment	100,000
Trade-In Allowance	
Total	250,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	250,000
Sale of Replaced Asset	
Capital Reserve Fund	
Bond Proceeds	
Property Tax	
Total	250,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	250,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	250,000

BURT Street Pump Station Upgrade

- The life expectancy of the pump stations is 20-30 years. Upgrading each of the pumps stations below will include replace pumps, controls, and alarm system.
- **Burt Street Pump Station** – This station is 43 years old and uses ejector pumps to pump sewage. The station will be upgraded to current technology which will likely include submersible pumps.
- Estimated Upgrade Cost - \$250,000
 - \$25,000 for engineering design
 - \$250,000 for construction



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Upgrade Heron Cove Pump Station

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in early 1990's. The life expectancy of the pump station is 20-30 years. The station is now 29 years old and all the components have begun to fail. Remove and replace pumps, controls, and alarm system.

Estimated Cost	
Design	
Construction	100,000
Equipment	100,000
Trade-In Allowance	
Total	200,000

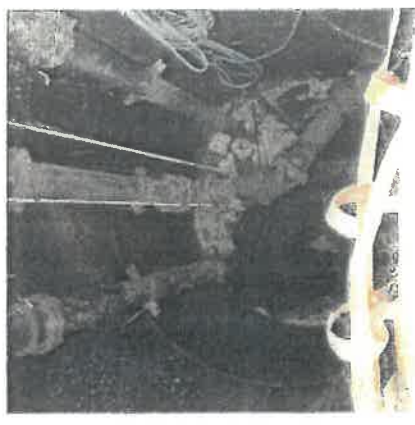
Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	200,000
Bond Proceeds	
Property Tax	
Total	200,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	200,000
2026-27	
2027-28	
Total	200,000

Heron Cove Pump Station Upgrade

- The life expectancy of the pump stations is 20-30 years. Upgrading each of the pumps stations below will include replace pumps, controls, and alarm system.
- **Heron Cove** – This station is 30 plus years old and components are beyond their useful life and some components have begun to fail.
- Estimated Upgrade Cost - \$20,000
 - \$20,000 for engineering design
 - \$180,000 for construction



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Radio Telemetry Update

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in the early 1980's. The life expectancy of the pump station is 20 - 30 years. The station is now 36 plus years old and all the components have begun to fail. Upgrade will include removing and replacing pumps, controls, and alarm system.

Estimated Cost

Design	
Engineering	
Construction	
Equipment	25,000
Trade-In Allowance	
Total	25,000

Financing:

Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	25,000
Bond Proceeds	
Property Tax	
Total	25,000

Impact on Operating Budget:

Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:

2021-22	
2022-23	25,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	25,000

Telemetry Upgrade



PWD CIP
FY 21-28

- The nine remote wastewater pumps stations communicate to WWTF via a combination of radio telemetry and cellular systems.
- Six pump stations communicate to the WWTF via radio telemetry. The three remaining pump stations communicate to the WWTF via cellular data plans.
- The design for the telemetry upgrade for the remaining pump stations is included in CIP (\$25,000). Actual upgrades will be included with the individual pump station upgrades.

**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Agitator PLC Upgrade

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: The station was built in the early 1980's. The life expectancy of the pump station is 20 - 30 years. The station is now 36 plus years old and all the components have begun to fail. Upgrade wil include removing and replacing pumps, controls, and alarm system.

Estimated Cost	
Design	
Engineering	
Construction	70,000
Equipment	70,000
Trade-In Allowance	
Total	140,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund	140,000
Bond Proceeds	
Property Tax	
Total	140,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	140,000
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	
Total	140,000

Compost Agitator Upgrade

Upgrade wireless communication between the Agitator and Dolly PLCs. Cost of upgrade \$70,000 for each agitator (Total \$140,000)

Reasons:

- Safety – slip trips fall, having to climb over compost to reset agitator, possible exposure to toxic gases
- Reduces time for operation activities. Improves consistency of operation.
- Reduces trouble-shooting time. Reduces service trips required of BDP.
- Produces valuable process information which can be used to improve operation.

After the upgrade all the significant wear items will have been replaced and with the like new plc upgrade the machine will operate as a like new machine and be considerably safer for the operators



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Nutrient Removal Design Project

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: EPA has recently imposed nitrogen and lower phosphorous limits to municipal wastewater treatment facilities which discharge to the Merrimack River. In addition, NHDES is currently, reviewing their nutrient load alternatives for establishing nutrient limits in WWTF discharge permits that do not use the 7Q10 low flow. Based on discussions both a nitrogen and lower phosphorus limit may be imposed in the future. The cost is a place holder for the next NPDES permit cycle. A design project may be required.

Estimated Cost	
Design	250,000
Engineering	
Construction	
Equipment	
Trade-In Allowance	
Total	250,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (SRF)	250,000
Bond Proceeds	
Property Tax	
Total	250,000

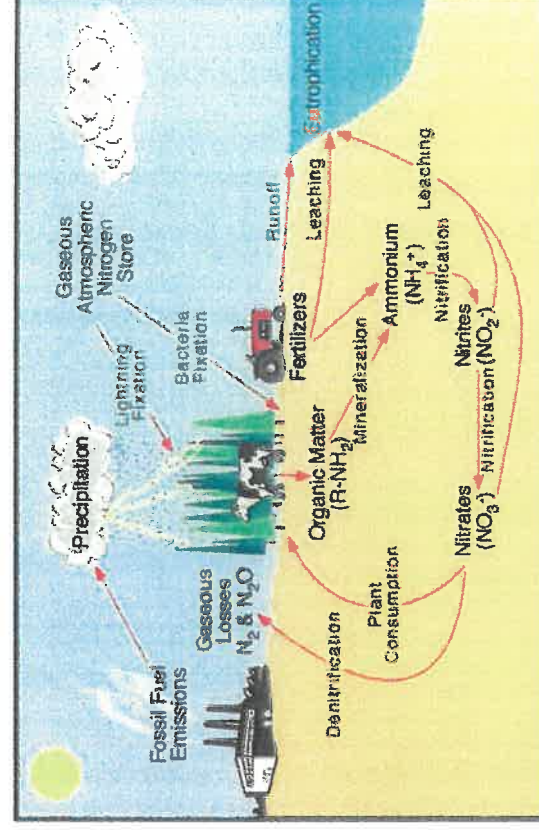
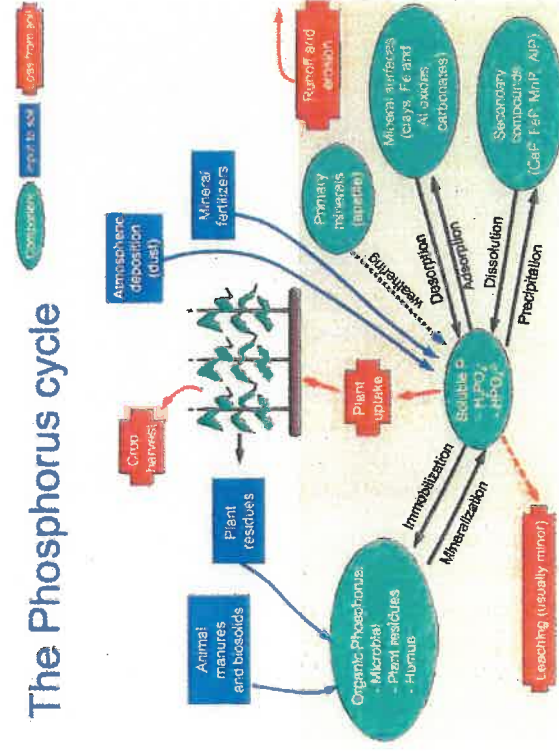
Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	250,000
2027-28	
Total	250,000

Nutrient Removal Upgrade

- EPA has recently imposed nitrogen monitoring requirements and lower phosphorous limits to municipal wastewater treatment facilities which discharge to the Merrimack River.
- Based on discussions with EPA both a nitrogen and lower phosphorus limit may be imposed in the future.
- The cost of \$250,000 is a place holder for the next NPDES permit cycle to complete a design project if nutrient removal is required.

The Phosphorus cycle



**Capital Improvements Program
PROJECT REQUEST FORM**

Project: Hypo Feed System Upgrade

Project same as reflected in prior CIP? Yes: No:

If No, indicate area of significant change reflected and briefly explain why the changes have been made: Cost: Year: Scope: None: (Check all that apply).

Explanation and Need: EPA has recently imposed nitrogen and lower phosphorous limits to municipal wastewater treatment facilities which discharge to the Merrimack River. In addition, NHDES is currently, reviewing their nutrient load alternatives for establishing nutrient limits in WWTF discharge permits that do not use the 7Q10 low flow. Based on discussions both a nitrogen and lower phosphorus limit may be imposed in the future. The cost is a place holder for the next NPDES permit cycle. A design project may be required.

Estimated Cost	
Design	250,000
Engineering	
Construction	
Equipment	
Trade-In Allowance	
Total	250,000

Financing:	
Federal/State Grant	
Private Grant	
User Fees (Sewer/Water)	
Sale of Replaced Asset	
Capital Reserve Fund (SRF)	250,000
Bond Proceeds	
Property Tax	
Total	250,000

Impact on Operating Budget:	
Personnel	
Maintenance	
Insurance	
Utilities	
Total	0

Project Period:	
2021-22	
2022-23	
2023-24	
2024-25	
2025-26	
2026-27	
2027-28	250,000
Total	250,000

Hypo Feed System Upgrade

PWD CIP

FY 21-28

- WWTP disinfects the final effluent from secondary biological treatment process using an industrial strength bleach (15% solution sodium hypochlorite).
- The current system was constructed in a 1999-2000 facility upgrade.
- Project Components to include:
 - Replace two chemical storage tanks (3,000 gallons each, using high-density cross-linked polyethylene).
 - Replace pumps and PVC piping.
 - Reconfigure the system to include pressure relief valves to relieve off gassing from the decomposition of sodium hypochlorite which produces oxygen in the form of bubbles and to meet current safety requirements.
- The cost of \$250,000 is a place holder for the project.

