

Capital Recommendations
and
Funding Sources

Section 2

**Capital Recommendations and Funding Sources
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**FY2020
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Funding Recommendations**

Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
Building Management System Upgrade	M	23.2	Public Works	1	392,000	392,000					3 - 044
Center at the Heights Computer Lab	P	14	Finance	1	50,000	50,000					3 - 014
Claxton Field	M	23.6	Public Works	3	70,000				70,000	Funding is recommended under Tier II.	3 - 153
DPW Boiler Replacement 470 Dedham Avenue	M	23.2	Public Works	2	50,000			50,000		Unexpended balance from a prior capital appropriation.	3 - 104
DPW Complex	M	23.1	Public Works	2	3,062,000				3,062,000		3 - 081
Energy Efficiency Upgrade Improvements	M	23.2	Public Works	2	57,000			57,000		Unexpended balance from a prior capital appropriation.	3 - 097
Facility Assessment for Sustainable Building Management	M	23.2	Public Works	2	100,000	100,000					3 - 095
High School Locker Reconfiguration & Addition	N	80	School	1	50,000	37,500		12,500		Unexpended balance from a prior capital appropriation.	3 - 070
Hillside School Boiler Upgrade	M	23.2	Public Works	2	12,000				12,000		3 - 083
Library Furniture	P	28	Library	1	112,960	112,960					3 - 053
Library Space Planning	NB	28	Library	2	60,000				60,000	Possible alternative funding source.	3 - 114
Library Technology	N	28	Library	1	30,000				30,000	First time request; funding is recommended under Tier II.	3 - 058
Mitchell School Restroom Upgrades	M	23.2	Public Works	2	67,000	67,000					3 - 093
Multi-Function Printer Devices	P	14	Finance	1	35,600	35,600					3 - 030
Needs Assessment of Pollard, Newman and NHS Auditorium Theatrical Sound and Lighting Systems	N	80	School	1	60,000				60,000	Possible alternative funding source.	3 - 078
Newman Preschool Playground Custom Shade Shelter	M	80	School	1	69,200	69,200					3 - 068

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Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
Newman School Gym Floor	N	23.2	Public Works	2	275,000	275,000					3 - 091
Personal Protective Equipment	P	18	Fire	1	43,424	43,424					3 - 042
Police and Fire Mobile and Portable Radios	N	17	Police	1	617,550	617,550				Related to the Public Safety Building projects	3 - 038
Pollard School Blue & Green Gym Score Boards	M	23.2	Public Works	2	30,000	30,000					3 - 087
Public Safety Desktops, Printers and Peripherals	N	14	Finance	1	200,000	200,000				Related to the Public Safety Building projects	3 - 024
Public Safety Fitness Equipment	N	18	Fire	1	83,613				83,613	Possible alternative funding source.	3 - 040
Public Safety Mobile Devices	M	14	Finance	1	35,000	35,000					3 - 026
Public Works Infrastructure Program	M	23	Public Works	3	2,169,550	2,169,550					3 - 144
Recycling and Transfer Station Property Improvements	M	23.7	Public Works	3	295,000	295,000					3 - 161
Renovate/Reconstruct Hillside as Swing Space for School Construction	M	80	School	2	100,000				100,000		3 - 125
Fleet - Large Tractor Unit 102 (Highway)	L	23.5	Public Works	4	252,140	252,140					3 - 199
Fleet - Sidewalk Tractor Plow Unit 107 (Highway)	X	23.5	Public Works	4	178,571	178,571					3 - 199
Fleet - Street Sweeper Unit 181 (Highway)	L	23.5	Public Works	4	313,169				313,169	Unit 182 was funded for replacement in FY2019; the warrant showed it as unit 181.	3 - 199
Fleet - Work Truck Class 2 Unit 2 (Fleet)	C	23.4	Public Works	4	37,060	37,060					3 - 199
Fleet - Utility Trailer Chipper Unit 256 (Parks)	L	23.6	Public Works	4	64,936	64,936					3 - 199

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**FY2020
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Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
Fleet - Heavy Duty Bucket Truck Class 8 Unit 38 (Parks)	L	23.6	Public Works	4	274,434	274,434					3 - 199
Fleet - Small SUV Unit 457 (Building)	C	19	Building	4	33,085	33,085				Replacing a Taurus passenger vehicle.	3 - 199
Fleet - Work Truck Class 2 Unit 56 (Solid Waste)	C	23.7	Public Works	4	50,332	50,332					3 - 199
Fleet - Work Truck Class 2 Unit 57 (Highway)	CL	23.5	Public Works	4	63,804	63,804					3 - 199
Fleet - Work Truck Class 2 Unit 705 (Building Maintenance)	C	23.2	Public Works	4	37,060	37,060					3 - 199
Fleet - Work Van Unit 715 (Building Maintenance)	C	23.2	Public Works	4	43,709	43,709				Addition to the fleet for the additional trades position.	3 - 199
Fleet - Work Van Unit 92 (Engineering)	C	23.3	Public Works	4	41,550	41,550					3 - 199
Fleet - School Bus Unit 14 (School)	C	80	School	4	81,942	81,942					3 - 199
Fleet - Fire Prevention Vehicle C-42 (Fire)	C	18	Fire	4	35,249	35,249					3 - 199
Fleet - Transport Van Unit 1 (School)	C	80	School	4	38,388	38,388					3 - 199
Fleet - Transport Van Unit 2 (School)	C	80	School	4	38,388	38,388					3 - 199
School Copier Replacement	R	80	School	1	135,520	52,470			83,050	Funding is recommended under Tier II.	3 - 065
School Furniture	R	80	School	1	35,000	35,000					3 - 063
School Master Plan Supplement	N	80	School	2	125,000	125,000					3 - 140

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**FY2020
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Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
School Technology Replacement	R	80	School	1	632,350	632,350					3 - 075
Specialty Equipment - Unit 351 Tractor (PF)	M	23.6	Public Works	1	68,000	68,000					3 - 049
Town Offices Replacement Furniture	P	10	Town Manager	1	25,000	25,000					3 - 002
Traffic Improvements	P	23	Public Works	3	50,000	50,000					3 - 210
Turf Field Replacement at DeFazio Field and Memorial Park	M	23.6	Public Works	3	2,500,000			2,500,000		Funding from AFIF	3 - 153
Drain System Improvements – Water Quality (EPA)	M	23.8	Public Works	3	25,000				25,000		3 - 182
General Fund					13,306,584	6,788,252		2,619,500	3,898,832		

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**FY2020
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Funding Recommendations**

Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
Cricket Field	M	23.6	Public Works	3	480,000	480,000					3 - 153
Cricket Field Building Renovation	M	29	Park and Recreation	2	163,765				163,765		3 - 116
Open Space Land Purchase	P	29	Park and Recreation	3	1,000,000				1,000,000	No Specific Request	3 - 172
Passive Recreation Improvements (Dwight Field/Charles River Center)	N	23.6	Public Works	3	35,000				35,000	First time request; funding is recommended under Tier II.	3 - 157
Public Playgrounds	M	29	Park and Recreation	1	350,000	350,000					3 - 060
Rosemary Lake Camp and Trail	P	29	Park and Recreation	3	200,000	200,000					3 - 170
Town Common Historic Redesign and Beautification	M	23.3	Public Works	3	117,000	117,000					3 - 159
Community Preservation Fund					2,345,765	1,147,000			1,198,765		
Fleet - Heavy Duty Work Truck Class 8 Unit 29 (Jet Vac)	L	200	Public Works	4	321,268				321,268	Postponed by Request	3 - 199
Fleet - Heavy Duty Work Truck Class 8 Unit 35 (with Catch Basin Cleaner)	C	200	Public Works	4	201,487	201,487					3 - 199
Sewer Pump Station Improvements	M	200	Public Works	3	630,000	630,000					3 - 178
Sewer System Infiltration & Inflow Removal	M	200	Public Works	3	1,600,000	800,000	800,000				3 - 180
Sewer Enterprise Fund					2,752,755	1,631,487	800,000		321,268		
Water Distribution System Improvements	M	300	Public Works	3	4,791,500	291,500	4,500,000				3 - 191
Water Enterprise Fund					4,791,500	291,500	4,500,000				
TOTAL					23,196,604	9,858,239	5,300,000	2,619,500	5,418,865		

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**FY2020
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Title	Code*	Dept	Submitting Department	Cat *	FY2020 Department Request	Cash	Debt	Other Funding Source	No Action	Notes	Page
Equipment & Technology				1	3,025,217	2,756,054		12,500	256,663		
Buildings & Facilities				2	4,101,765	597,000		107,000	3,397,765		
Infrastructure & Land				3	13,963,050	5,033,050	5,300,000	2,500,000	1,130,000		
Fleet				4	2,106,572	1,472,135			634,437		
TOTAL					23,196,604	9,858,239	5,300,000	2,619,500	5,418,865		

Code

- B = Funding may be considered under the operating budget/special warrant article
- C = Core Fleet
- D = Recommendation is deferred or on hold pending other actions
- E = Emergency approval
- F = Funded appropriation outside the capital plan
- G = Request may not qualify as capital submission
- L = Specialized Fleet Equipment
- I = Project submission is incomplete or waiting additional information
- M = Submission has been modified from previous submission
- N = New submission with this CIP
- P = Project request has appeared in previous CIP's
- Q = Request does not qualify as a capital submission
- R = Request is a regularly occurring capital expense
- S = No recommendation; under study
- U = Urgent request based on identified conditions

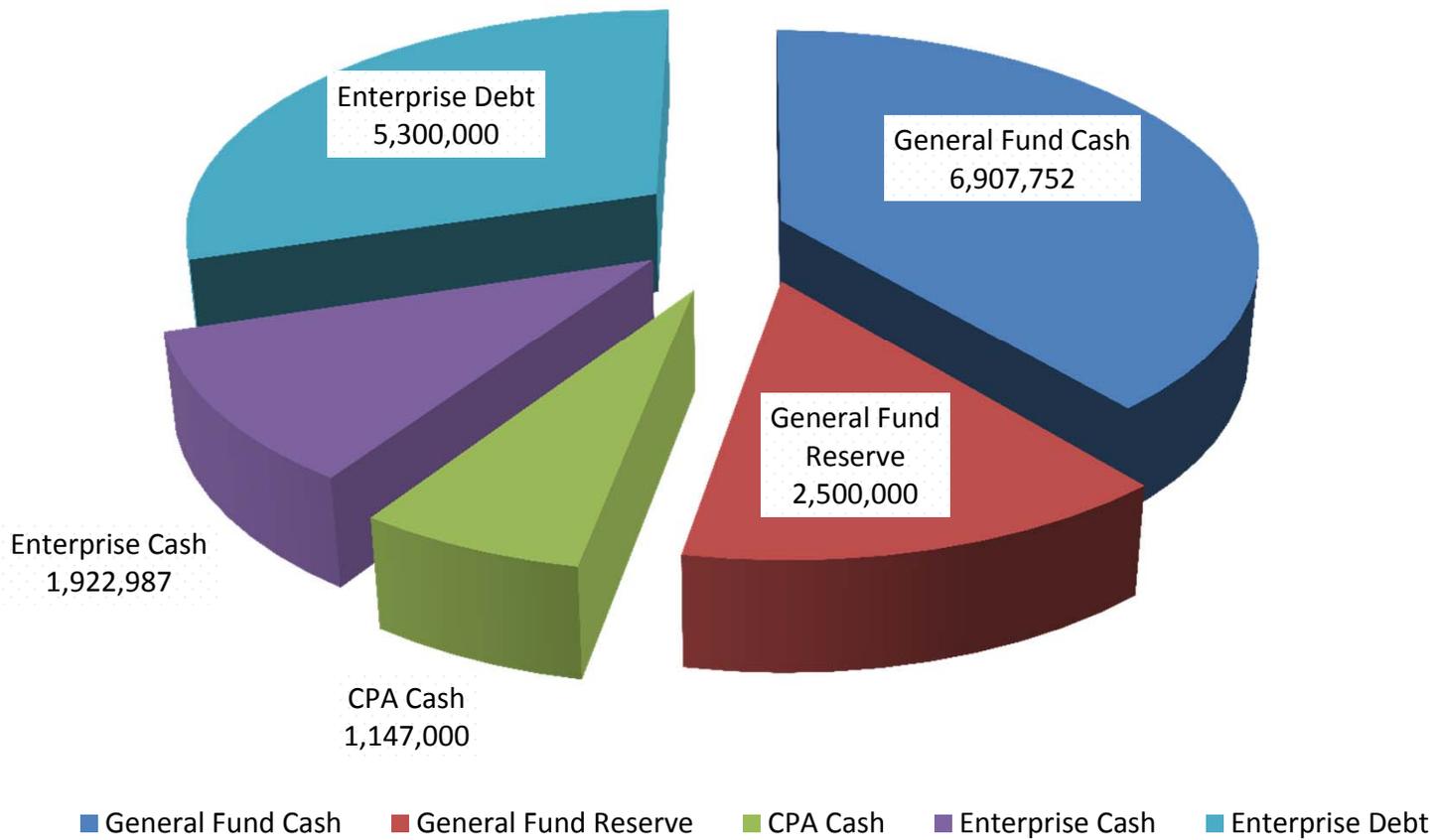
Cat (Category)

- 1 = Equipment or Technology
- 2 = Building or Facility
- 3 = Infrastructure
- 4 = Fleet

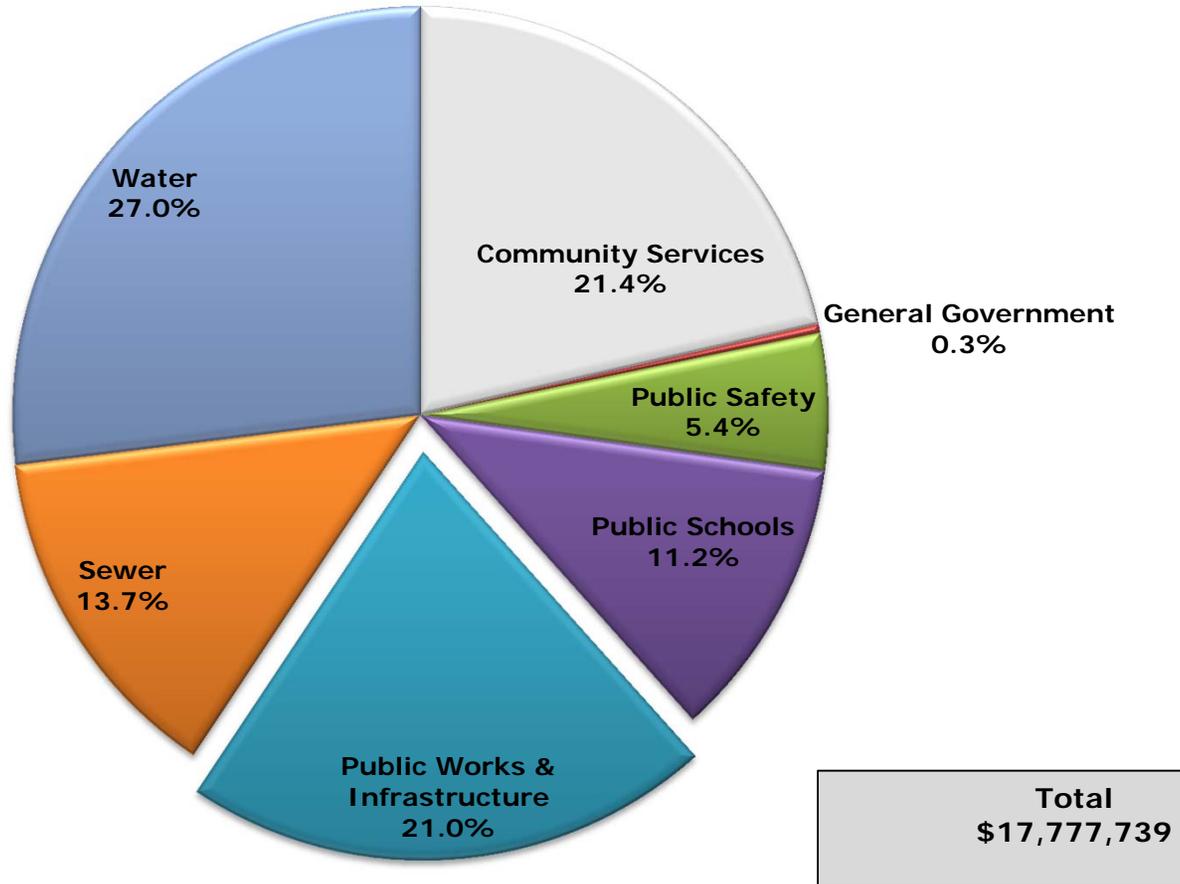
Truck Classification

- Class 1 = Smallest Pick-up Trucks 6,000 lbs.
- Class 2 = Full Size or 1/2 Ton Pick-up Trucks 6K to 10K lbs. (ex Ford F150 and F250)
- Class 3 = Heavy Duty Pick-up Trucks 10K to 14K lbs. (ex Ford F350)
- Class 4 = Medium Size Work Trucks 14K to 16K lbs. (ex Ford F450)
- Class 5 = Medium Job Trucks 16K to 19.5K lbs. (ex Ford F550)
- Class 6 = Medium to Large Trucks 19.5K to 26K (ex Ford F650)
- Class 7 = Heavy Duty Trucks 26K to 33K (ex Ford F750) Requires Class B Commercial
- Class 8 = Largest Heavy Duty Trucks 33K lbs. or more (specialized equipment)

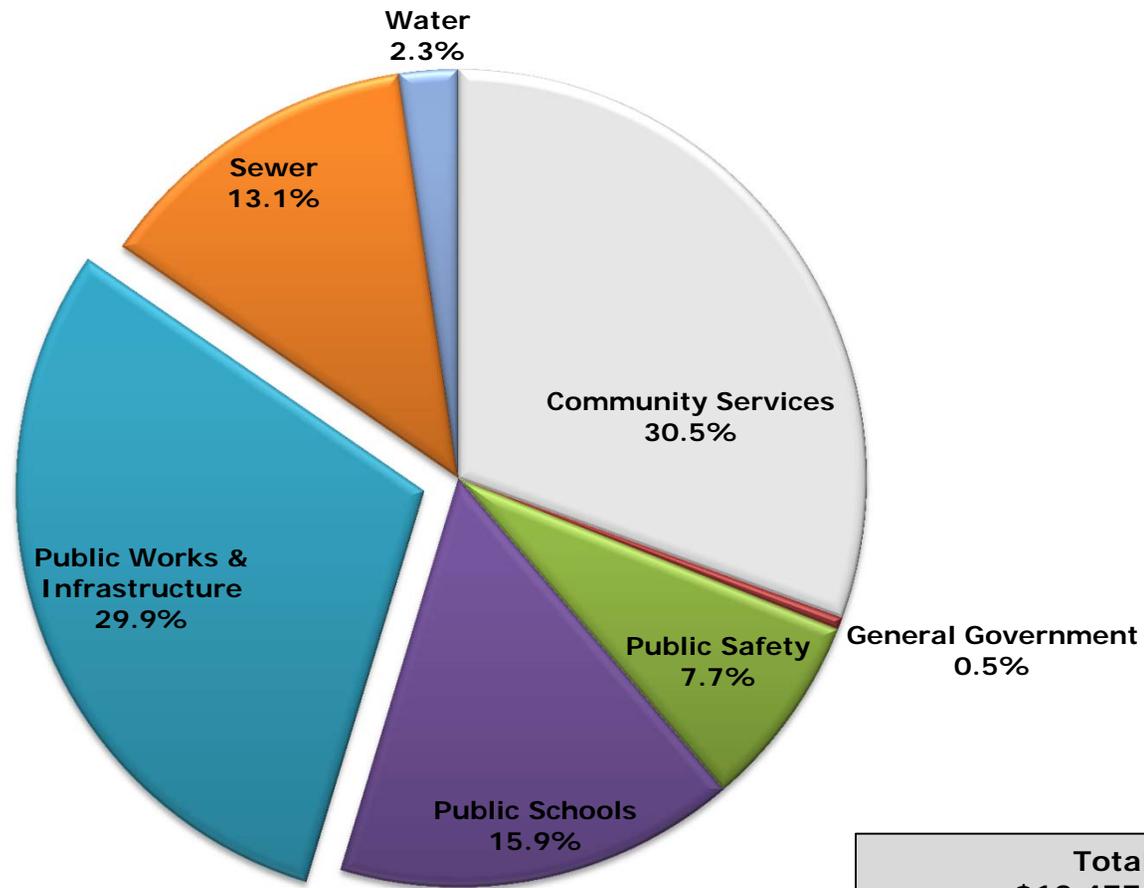
FY2020 Proposed Capital by Funding Source



FY2020 Proposed Capital by Function



FY2020 Proposed Cash Capital by Function



Town of Needham
Capital Improvement Plan
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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Asa Small Field Renovation	I	Community	3														3 - 151
Athletic Facility and Public Recreation Improvements	M	Community	3	2,950,000	2,980,000	612,500	45,000	677,000	450,000	1,102,000	1,102,000	290,000	290,000	1,392,000		3,475,000	3 - 153
Athletic Fields Master Plan	GM	Community	3									75,000					3 - 166
Boat Launch on Charles River	I	Community	3														3 - 168
CATH Generator	N	Community	2							37,500	37,500	250,000	250,000	287,500			3 - 110
Center at the Heights Computer Lab	P	Community	1	50,000	50,000									50,000			3 - 014
Center at the Heights Space Utilization Study	I	Community	2							75,000	75,000			75,000			3 - 108
Cricket Field Building Renovation	M	Community	2	163,765		818,824											3 - 116
Library Furniture	P	Community	1	112,960	112,960	82,740	82,740	83,182	83,182					278,882			3 - 053
Library RFID Conversion	P	Community	1			327,200											3 - 055
Library Space Planning	NB	Community	2	60,000													3 - 114
Library Technology	N	Community	1	30,000		48,500	48,500	26,280		36,500	36,500	30,400		85,000			3 - 058
Open Space Land Purchase	P	Community	3	1,000,000													3 - 172
Outdoor Basketball Courts	M	Community	3					135,000	135,000							135,000	3 - 174
Passive Recreation Improvements (Dwight Field/Charles River Center)	N	Community	3	35,000		350,000											3 - 157
Permanent Message Boards	M	Community	1			54,000		56,000		58,000		60,000					3 - 046
Public Playgrounds	M	Community	1	350,000	350,000	350,000	350,000									700,000	3 - 060
Replace Unit 404 2012 Ford E350 VAN (14 Passengers)	C	Community	4					93,575	93,575					93,575			3 - 199
Rosemary Lake Camp and Trail	P	Community	3	200,000	200,000											200,000	3 - 170
Town Common Historic Redesign and Beautification	M	Community	3	117,000	117,000	906,000	906,000									1,023,000	3 - 159
GIS Technology Systems and Application Updates	M	General	1							100,000	100,000			100,000			3 - 016
High Availability Firewalls	N	General	1					75,000	75,000					75,000			3 - 018
Multi-Function Printer Devices	P	General	1	35,600	35,600	35,600	35,600	35,600	35,600					106,800			3 - 030
Non-Public Safety Data Center Servers and Storage Units	P	General	1							145,000	145,000	180,000	180,000	325,000			3 - 020
Replace Unit 452 2013 Ford Taurus	L	General	4							38,305	38,305			38,305			3 - 199
Revenue Application Software Package	P	General	1			1,100,000	1,100,000							1,100,000			3 - 032

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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Town Building Switching	N	General	1									60,000	60,000	60,000			3 - 004
Town Internet Control, Analysis and Reporting	N	General	1					75,000	75,000					75,000			3 - 006
Town Offices Replacement Furniture	P	General	1	25,000	25,000			25,000	25,000					50,000			3 - 002
Wireless Hardware Infrastructure	N	General	1									175,000	175,000	175,000			3 - 010
Automated External Defibrillators Replacement	P	Public Safety	1							27,836	27,836			27,836			3 - 034
Firearm Replacement	M	Public Safety	1			31,630	31,630							31,630			3 - 036
Personal Protective Equipment	P	Public Safety	1	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	43,424	217,120			3 - 042
Police and Fire Mobile and Portable Radios	N	Public Safety	1	617,550	617,550									617,550			3 - 038
Public Safety Data Center Servers and Storage Units	M	Public Safety	1			200,000											3 - 022
Public Safety Desktops, Printers and Peripherals	N	Public Safety	1	200,000	200,000									200,000			3 - 024
Public Safety Fitness Equipment	N	Public Safety	1	83,613													3 - 040
Public Safety Mobile Devices	M	Public Safety	1	35,000	35,000			50,000	50,000	50,000	50,000			135,000			3 - 026
Replace Unit 1996 HAZ HAZMAT TRAILER	L	Public Safety	4														3 - 199
Replace Unit 400 2005 Ford Taurus	C	Public Safety	4					35,441	35,441					35,441			3 - 199
Replace Unit 453 2016 Ford Focus	C	Public Safety	4									37,966	37,966	37,966			3 - 199
Replace Unit 454 2014 Ford Fusion	L	Public Safety	4									37,966	37,966	37,966			3 - 199
Replace Unit 455 2016 Ford Focus	L	Public Safety	4									37,966	37,966	37,966			3 - 199
Replace Unit 456 1014 Ford Fusion	L	Public Safety	4									37,966	37,966	37,966			3 - 199
Replace Unit 457 2006 Ford Taurus	C	Public Safety	4	33,085	33,085									33,085			3 - 199
Replace Unit C-01 2017 Ford Explorer	C	Public Safety	4			47,733	47,733							47,733			3 - 199
Replace Unit C-02 2016 Chevrolet Tahoe	C	Public Safety	4			54,357	54,357							54,357			3 - 199
Replace Unit C-03 2013 Ford Explorer	C	Public Safety	4			47,733	47,733							47,733			3 - 199
Replace Unit C-06 2015 Ford F350	C	Public Safety	4			68,750	68,750							68,750			3 - 199
Replace Unit C-42 2013 Ford Explorer	C	Public Safety	4	35,249	35,249									35,249			3 - 199
Replace Unit L-01 2004 Sutphen Quint Ladder Truck	L	Public Safety	4									1,348,060	1,348,060		1,348,060		3 - 199
Replace Unit R-01 2016 Ford E450 Ambulance	L	Public Safety	4			350,322	350,322							350,322			3 - 199

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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Replace Unit R-02 2017 Ford E450 Ambulance	L	Public Safety	4					362,584			362,584			362,584			3 - 199
Replace Unit R-03 2008 Ford E450 Ambulance	L	Public Safety	4			350,322	350,322							350,322			3 - 199
Replace Unit R-04 2006 Ford E450 Ambulance	L	Public Safety	4					362,584	362,584					362,584			3 - 199
Town Building Security and Traffic Cameras	N	Public Safety	1									300,000					3 - 012
Town Wide Video Projection and Smart TV	N	Public Safety	1					50,000	50,000	40,000	40,000	55,000	55,000	145,000			3 - 008
Daley Building Upgrades	N	Public Works	2									50,000					3 - 106
DPW Boiler Replacement 470 Dedham Avenue	M	Public Works	2	50,000	50,000	460,000	460,000							460,000		50,000	3 - 104
DPW Complex	M	Public Works	2	3,062,000				37,379,000									3 - 081
Energy Efficiency Upgrade Improvements	M	Public Works	2	57,000	57,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	400,000		57,000	3 - 097
Fleet Refurbishment	N	Public Works	1			150,000				150,000							3 - 051
Public Works Infrastructure Program	M	Public Works	3	2,169,550	2,169,550	2,415,000	2,145,000	2,278,000	2,145,000	3,524,500	2,145,000	3,105,000	2,145,000	10,749,550			3 - 144
Public Works Mobile Devices	N	Public Works	1							50,000	50,000			50,000			3 - 028
Recycling and Transfer Station Property Improvements	M	Public Works	3	295,000	295,000	401,500	401,500	124,500	124,500	124,500	124,500			945,500			3 - 161
Recycling Center and Transfer Station Employee Trailer	I	Public Works	2														3 - 112
Replace Unit 10 2010 International 7400 Dump Truck	L	Public Works	4					269,978	269,978					269,978			3 - 199
Replace Unit 102 2008 John Deere Loader 544J	L	Public Works	4	252,140	252,140									252,140			3 - 199
Replace Unit 107 2008 Camoplast Sidewalk Plow Tractor	X	Public Works	4	178,571	178,571									178,571			3 - 199
Replace Unit 108 2011 Trackless Tractor	X	Public Works	4							197,985	197,985			197,985			3 - 199
Replace Unit 112 2011 Prinoth (Sidewalk Tractor)	L	Public Works	4							245,967	245,967			245,967			3 - 199
Replace Unit 113 2008 Camoplast Sidewalk Plow Tractor	L	Public Works	4			184,821	184,821							184,821			3 - 199
Replace Unit 121 2007 Vermac Utility Trailer (Electronic Message Board)	L	Public Works	4					17,213									3 - 199
Replace Unit 122 2007 Vermac Utility Trailer (Electronic Message Board)	L	Public Works	4					17,213									3 - 199
Replace Unit 181 2012 Elgin Pelican Sweeper	L	Public Works	4	313,169													3 - 199
Replace Unit 186 2010 Gaint Leaf Vacuum Trailer	L	Public Works	4					26,623	26,623					26,623			3 - 199
Replace Unit 2 2010 Ford F150 XL	C	Public Works	4	37,060	37,060									37,060			3 - 199
Replace Unit 254 2013 Bandit Brush Chipper	L	Public Works	4							73,183	73,183			73,183			3 - 199

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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Replace Unit 256 2008 Utility Trailer (Chipper)	L	Public Works	4	64,936	64,936									64,936			3 - 199
Replace Unit 259 2010 Hudson Trailer	L	Public Works	4			3,354											3 - 199
Replace Unit 3 2012 Ford F450	L	Public Works	4					78,567	78,567					78,567			3 - 199
Replace Unit 32 2012 Ford F350	CL	Public Works	4					68,349	68,349					68,349			3 - 199
Replace Unit 34 2001 Mack Tractor Trailer	L	Public Works	4									182,172	182,172	182,172			3 - 199
Replace Unit 350 2010 John Deere Loader	L	Public Works	4					67,245	67,245					67,245			3 - 199
Replace Unit 36 2014 Warren Utility Trailer (Open-Top Trailer)	L	Public Works	4									79,281	79,281	79,281			3 - 199
Replace Unit 38 2007 International 4300 Bucket Truck	L	Public Works	4	274,434	274,434									274,434			3 - 199
Replace Unit 39 2012 Ford F550 Dump Truck	L	Public Works	4					73,233	73,233					73,233			3 - 199
Replace Unit 43 2012 Ford F350	CL	Public Works	4					66,407	66,407					66,407			3 - 199
Replace Unit 45 2012 FORD E150 VAN	C	Public Works	4					45,656	45,656					45,656			3 - 199
Replace Unit 5 2011 International 7400 Dump Truck	L	Public Works	4							247,365	247,365			247,365			3 - 199
Replace Unit 56 2010 Ford F150	C	Public Works	4	50,332	50,332									50,332			3 - 199
Replace Unit 57 2012 Ford F350	CL	Public Works	4	63,804	63,804									63,804			3 - 199
Replace Unit 700 2012 Ford Econ Van E250	C	Public Works	4							48,461	48,461			48,461			3 - 199
Replace Unit 705 2006 Ford Econ Van E250	C	Public Works	4	37,060	37,060									37,060			3 - 199
Replace Unit 707 2008 Ford Econ Van E250	C	Public Works	4			45,239	45,239							45,239			3 - 199
Replace Unit 710 2008 Leaf Utility Trailer	C	Public Works	4									8,077					3 - 199
Replace Unit 712 2011 Ford Econ Van E250	C	Public Works	4					46,822	46,822					46,822			3 - 199
Replace Unit 713 2012 Ford F450 Dump Truck	L	Public Works	4									84,163	84,163	84,163			3 - 199
Replace Unit 715 Addition to Fleet	C	Public Works	4	43,709	43,709									43,709			3 - 199
Replace Unit 720 2009 Ford Escape Hybrid	C	Public Works	4			34,243	34,243							34,243			3 - 199
Replace Unit 756 2010 Ford F150	C	Public Works	4					39,700	39,700					39,700			3 - 199
Replace Unit 9 INTERNATIONAL 7400 Dump Truck	L	Public Works	4									287,978	287,987	287,987			3 - 199
Replace Unit 91 2000 CONSTRUCTION SCALP TRUCK	L	Public Works	4					143,142	143,142					143,142			3 - 199
Replace Unit 92 2012 Ford Explorer	C	Public Works	4	41,550	41,550									41,550			3 - 199

Town of Needham
Capital Improvement Plan
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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Specialty Equipment - Loader Mounted Snow Blower (H)	M	Public Works	1			192,000	192,000							192,000			3 - 049
Specialty Equipment - Unit 334 Specialty Mower (PF)	M	Public Works	1					38,000	40,000					40,000			3 - 049
Specialty Equipment - Unit 351 Tractor (PF)	M	Public Works	1	68,000	68,000									68,000			3 - 049
Traffic Improvements	P	Public Works	3	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	250,000			3 - 210
Broadmeadow School Technology Room Conversion	N	Schools	2					213,100	213,100					213,100			3 - 137
Building Management System Upgrade	M	Schools	1	392,000	392,000									392,000			3 - 044
Eliot Modular Classrooms	N	Schools	2			556,700		3,481,200									3 - 134
Eliot School Technology Room Conversion	N	Schools	2			179,300	179,300							179,300			3 - 131
Emery Grover Roof Replacement	M	Schools	2			15,000		220,000									3 - 100
Emery Grover Window Replacement	M	Schools	2			30,000		368,000									3 - 102
Facility Assessment for Sustainable Building Management	M	Schools	2	100,000	100,000							50,000	50,000	150,000			3 - 095
Harris Avenue Parking Lot (Pollard School)	P	Schools	3							25,000	25,000	500,000	500,000	525,000			3 - 142
High School Locker Reconfiguration & Addition	N	Schools	1	50,000	50,000									37,500		12,500	3 - 070
Hillside School Boiler Upgrade	M	Schools	2	12,000		220,000											3 - 083
Mitchell Elementary School Renovation	M	Schools	2			650,000				111,874,200							3 - 122
Mitchell School Restroom Upgrades	M	Schools	2	67,000	67,000	670,000	670,000							67,000	670,000		3 - 093
Needs Assessment of Pollard, Newman and NHS Auditorium Theatrical Sound and Lighting Systems	N	Schools	1	60,000													3 - 078
Newman Preschool Playground Custom Shade Shelter	M	Schools	1	69,200	69,200									69,200			3 - 068
Newman School Gym Floor	N	Schools	2	275,000	275,000									275,000			3 - 091
Pollard School Air Conditioning Upgrade	M	Schools	2			100,000	100,000	550,000	1,125,000	575,000				100,000	1,125,000		3 - 089
Pollard School Blue & Green Gym Score Boards	M	Schools	2	30,000	30,000									30,000			3 - 087
Pollard School Improvements	M	Schools	2														3 - 118
Pollard School Locker Room Retrofit	M	Schools	2			60,000	60,000	630,000	630,000					60,000	630,000		3 - 085
Renovate/Reconstruct Emery Grover Building at Highland Avenue Location	M	Schools	2			2,113,600		17,234,900									3 - 128
Renovate/Reconstruct Hillside as Swing Space for School Construction	M	Schools	2	100,000		3,922,800		24,452,100									3 - 125
Replace Unit Bus 1 2017 Blue Bird 202 School Bus	C	Schools	4							90,264	90,264			90,264			3 - 199

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Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020	FY2020	FY2021	FY2021	FY2022	FY2022	FY2023	FY2023	FY2024	FY2024	Cash	Debt	Other	Page
				Department Request	Recommended Tier 1												
Replace Unit Bus 14 2012 IC Mini School Bus	C	Schools	4	81,942	81,942									81,942			3 - 199
Replace Unit Bus 2 2017 Blue Bird 202 School Bus	C	Schools	4							90,264	90,264			90,264			3 - 199
Replace Unit Van 1 2011 Ford E150 Van	C	Schools	4	38,388	38,388									38,388			3 - 199
Replace Unit Van 10 2015 Toyota Sienna Van	C	Schools	4					50,483	50,483					50,483			3 - 199
Replace Unit Van 2 2011 Ford E150 Van	C	Schools	4	38,388	38,388									38,388			3 - 199
Replace Unit Van 7 2012 Ford E250 Van	C	Schools	4			48,776	48,776							48,776			3 - 199
Replace Unit Van 8 2013 Ford E250 Van	C	Schools	4			48,776	48,776							48,776			3 - 199
Replace Unit Van 9 2014 Toyota Sienna Van	C	Schools	4					50,483	50,483					50,483			3 - 199
School Copier Replacement	R	Schools	1	135,520	52,470	37,600	37,600	73,990	73,990	41,200	41,200	57,650	57,650	262,910			3 - 065
School Document Management System	M	Schools	1					187,700									3 - 072
School Furniture	R	Schools	1	35,000	35,000	35,000	35,000	25,000	25,000	25,000	25,000	25,000	25,000	145,000			3 - 063
School Master Plan Supplement	N	Schools	2	125,000	125,000									125,000			3 - 140
School Technology Replacement	R	Schools	1	632,350	632,350	556,575	556,575	490,150	490,150	422,000	422,000	395,750	395,750	2,496,825			3 - 075
Drain System Improvements – Water Quality (EPA)	M	Stormwater	3	25,000		253,000		2,000,000									3 - 182
TOTAL				15,552,349	10,554,752	19,412,919	8,910,941	93,142,424	7,557,234	119,708,454	6,034,338	7,993,819	6,510,351	30,142,056	3,773,060	5,652,500	
Equipment & Technology			1	3,025,217	2,768,554	3,244,269	2,513,069	1,334,326	1,066,346	1,188,960	980,960	1,382,224	991,824	7,608,253		712,500	
Buildings & Facilities			2	4,101,765	704,000	9,896,224	1,569,300	84,628,300	2,068,100	112,661,700	212,500	450,000	400,000	2,421,900	2,425,000	107,000	
Infrastructure & Land			3	6,841,550	5,811,550	4,988,000	3,547,500	5,264,500	2,904,500	4,826,000	3,446,500	4,020,000	2,985,000	13,862,050		4,833,000	
Fleet			4	1,583,817	1,270,648	1,284,426	1,281,072	1,915,298	1,518,288	1,031,794	1,394,378	2,141,595	2,133,527	6,249,853	1,348,060		
TOTAL				15,552,349	10,554,752	19,412,919	8,910,941	93,142,424	7,557,234	119,708,454	6,034,338	7,993,819	6,510,351	30,142,056	3,773,060	5,652,500	

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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Sewer Enterprise																	
Sewer Main Replacements	P	Sewer	3			1,950,000	1,950,000			9,000,000				450,000	1,500,000		3 - 176
Sewer Pump Station Improvements	M	Sewer	3	630,000	630,000			345,000	345,000	3,370,500	3,370,500			1,845,500	2,500,000		3 - 178
Sewer System Infiltration & Inflow Removal	M	Sewer	3	1,600,000	1,600,000									800,000	800,000		3 - 180
Replace Unit 101 2010 Case Loader	L	Sewer	4			280,921	280,921							280,921			3 - 199
Replace Unit 103 2012 John Deere Backhoe	L	Sewer	4									149,723	149,723	149,723			3 - 199
Replace Unit 11 2013 Ford Explorer	C	Sewer	4							41,618	41,618			41,618			3 - 199
Replace Unit 168 2010 Gorman Utility Trailer	L	Sewer	4					35,199	35,199					35,199			3 - 199
Replace Unit 17 2012 Ford F550 Dump Truck	L	Sewer	4					73,233	73,233					73,233			3 - 199
Replace Unit 19 2010 International 7400 Dump Truck	L	Sewer	4					268,830	268,830					268,830			3 - 199
Replace Unit 23 2011 Ford F350 Utility Truck	C	Sewer	4			56,054	56,054							56,054			3 - 199
Replace Unit 29 2008 International 7400 Jet Vac Truck	L	Sewer	4	321,268													3 - 199
Replace Unit 35 1999 International 4900 6-Wheel Dump Truck (with Catch Basin Cleaner)	C	Sewer	4	201,487	201,487									201,487			3 - 199
Replace Unit 37 2010 International 7500 Vactor	L	Sewer	4			398,030											3 - 199
TOTAL				2,752,755	2,431,487	2,685,005	2,286,975	722,262	722,262	12,412,118	3,412,118	149,723	149,723	4,202,565	4,800,000		
Equipment & Technology			1														
Buildings & Facilities			2														
Infrastructure & Land			3	2,230,000	2,230,000	1,950,000	1,950,000	345,000	345,000	12,370,500	3,370,500			3,095,500	4,800,000		
Fleet			4	522,755	201,487	735,005	336,975	377,262	377,262	41,618	41,618	149,723	149,723	1,107,065			
TOTAL				2,752,755	2,431,487	2,685,005	2,286,975	722,262	722,262	12,412,118	3,412,118	149,723	149,723	4,202,565	4,800,000		

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Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Water Enterprise																	
Charles River Water Treatment Plant HVAC Upgrades	I	Water	3														3 - 185
Fire Flow Improvements	I	Water	3			540,000	540,000	2,400,000	2,400,000					940,000	2,000,000		3 - 187
Water Distribution Study	IOB	Water	3									230,000	222,000	222,000			3 - 189
Water Distribution System Improvements	M	Water	3	4,791,500	4,791,500	372,000	372,000	405,000	405,000	105,000	105,000	475,000	475,000	1,648,500	4,500,000		3 - 191
Water Service Connections	R	Water	3					200,000	200,000	200,000	200,000	200,000	200,000	600,000			3 - 195
Water Supply Development	M	Water	3			433,000				1,260,000							3 - 196
Replace Unit 151 2008 Utility Trailer Ingersoll Rand Air Compressor	C	Water	4							16,580							3 - 199
Replace Unit 164 2008 Atlas Copco Trailer (Generator)	L	Water	4							37,056	37,056			37,056			3 - 199
Replace Unit 25 2012 Ford F450 Utility Truck	L	Water	4					96,907	96,907					96,907			3 - 199
Replace Unit 260 2009 Felling Utility Trailer (Roller)	L	Water	4									29,672	29,672	29,672			3 - 199
Replace Unit 261 2010 Hudson Trailer HD10	L	Water	4									5,121					3 - 199
Replace Unit 30 2012 Ford F550 Dump Truck	L	Water	4					136,811	78,449					78,449			3 - 199
Replace Unit 31 2011 Ford F150	C	Water	4			44,118	44,118							44,118			3 - 199
Replace Unit 324 2006 Construction Utility Trailer (Excavation Equipment)	L	Water	4			7,854											3 - 199
Replace Unit 40 Ford F350	C	Water	4				68,349	68,349						68,349			3 - 199
TOTAL				4,791,500	4,791,500	1,396,972	1,024,467	3,307,067	3,180,356	1,618,636	342,056	939,793	926,672	3,765,051	6,500,000		
Equipment & Technology			1														
Buildings & Facilities			2														
Infrastructure & Land			3	4,791,500	4,791,500	1,345,000	912,000	3,005,000	3,005,000	1,565,000	305,000	905,000	897,000	3,410,500	6,500,000		
Fleet			4			51,972	112,467	302,067	175,356	53,636	37,056	34,793	29,672	354,551			
TOTAL				4,791,500	4,791,500	1,396,972	1,024,467	3,307,067	3,180,356	1,618,636	342,056	939,793	926,672	3,765,051	6,500,000		

Town of Needham
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**Five Year Capital Improvement Plan
Preliminary Tier One Recommendations
FY2020 - FY2024**

Title	Code*	Function	Cat*	FY2020 Department Request	FY2020 Recommended Tier 1	FY2021 Department Request	FY2021 Recommended Tier 1	FY2022 Department Request	FY2022 Recommended Tier 1	FY2023 Department Request	FY2023 Recommended Tier 1	FY2024 Department Request	FY2024 Recommended Tier 1	Cash	Debt	Other	Page
Grand Total				23,096,604	17,777,739	23,494,896	12,222,383	97,171,753	11,459,852	133,739,208	9,788,512	9,083,335	7,586,746	38,109,672	15,073,060	5,652,500	
Equipment & Technology			1	3,025,217	2,768,554	3,244,269	2,513,069	1,334,326	1,066,346	1,188,960	980,960	1,382,224	991,824	7,608,253		712,500	
Buildings & Facilities			2	4,101,765	704,000	9,896,224	1,569,300	84,628,300	2,068,100	112,661,700	212,500	450,000	400,000	2,421,900	2,425,000	107,000	
Infrastructure & Land			3	13,863,050	12,833,050	8,283,000	6,409,500	8,614,500	6,254,500	18,761,500	7,122,000	4,925,000	3,882,000	20,368,050	11,300,000	4,833,000	
Fleet			4	2,106,572	1,472,135	2,071,403	1,730,514	2,594,627	2,070,906	1,127,048	1,473,052	2,326,111	2,312,922	7,711,469	1,348,060		
TOTAL				23,096,604	17,777,739	23,494,896	12,222,383	97,171,753	11,459,852	133,739,208	9,788,512	9,083,335	7,586,746	38,109,672	15,073,060	5,652,500	

Codes

- B = Funding may be considered under the operating budget/special warrant article
- C = Core Fleet
- D = Recommendation is deferred or on hold pending other actions
- E = Emergency approval
- F = Funded appropriation outside the capital plan
- G = Request may not qualify as capital submission
- L = Specialized Fleet Equipment
- I = Project submission is incomplete or waiting additional information
- M = Submission has been modified from previous submission
- N = New submission with this CIP
- P = Project request has appeared in previous CIP's
- Q = Request does not qualify as a capital submission
- R = Request is a regularly occurring capital expense
- S = No recommendation; under study
- U = Urgent request based on identified conditions

Cat (Category)

- 1 = Equipment or Technology
- 2 = Building or Facility
- 3 = Infrastructure or Land Improvements
- 4 = Fleet

Orange highlighted amounts indicate that all or a portion of the funding recommendation may be funded by CPA funds

Pink highlighted amounts indicate that all or a portion of the funding recommendation may be funded by debt.

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests						13,306,584	9,407,752
Cash							
Current Receipts & Free Cash	2,667,260	2,432,606	2,729,117	5,438,467	10,491,289		6,788,252
Other Available Funds		320,305	302,000	3,888,000	2,144,000		2,619,500
Total - Cash	2,667,260	2,752,911	3,031,117	9,326,467	12,635,289		9,407,752
Debt							
Within the Annual Levy Limit	1,700,000	5,100,000	500,000	15,075,000	6,671,000		
Excluded from the Levy Limit		7,000,000	58,305,000	3,750,000	66,245,000		
Total - Debt	1,700,000	12,100,000	58,805,000	18,825,000	72,916,000		
Total	4,367,260	14,852,911	61,836,117	28,151,467	85,551,289	13,306,584	9,407,752

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020						
Building Management System Upgrade						392,000	392,000	G					
Center at the Heights Computer Lab						50,000	50,000	G					
Central Avenue/Elliot Street Bridge	900,000	D	2,000,000	D									
Claxton Field Lights						70,000							
DPW Boiler Replacement 470 Dedham Avenue						50,000	50,000	G					
DPW/Public Services Administration Building Location Feasibility Study			40,000	A									
Drain System Improvements – Water Quality	80,000	G				25,000							
Drain System Repairs	76,000	G											
Emery Grover Building Study					130,000	G							
Emery Grover School Administration Tank			73,000	A									
Energy Efficiency Upgrade Improvements			96,323	G	38,154	G	57,000	G	71,000	G	57,000	57,000	A
Facilities Maintenance Program	482,000	G											
Facility Assessment for Sustainable Building Management						100,000	100,000	G					
Fire Alarm Cables	60,000	G											
Fleet - Ambulance (Fire)	186,607	G			224,677	G							

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Fleet - Delivery Van (School)				33,861	G		
Fleet - Dump Truck 10 Wheel Heavy Class 8 Unit 49 (Highway)		269,930	G				
Fleet - Dump Truck 10 Wheel Unit 47 (Highway)			223,109	G			
Fleet - Dump Truck 6 Wheel Heavy Class 8 Unit 7 (Highway)		219,746	G				
Fleet - Dump Truck 6 Wheel Unit 70 (Parks)			68,364	G			
Fleet - Dump Truck 6 Wheel Unit 71 (Parks)			68,364	G			
Fleet - Dump Truck 6 Wheel Unit 73 (Parks)		78,296	G				
Fleet - Dump Truck 6 Wheel Unit 75 (Parks)		78,296	G				
Fleet - Dump Truck 6 Wheel with Hook Lift Unit 74 (Parks)		104,102	G				
Fleet - Fire Engine E2 (Fire)					840,163	G	
Fleet - Fire Prevention Vehicle C-42 (Fire)						35,249	35,249 G
Fleet - Heavy Duty Bucket Truck Class 8 Unit 35 (Parks)						274,434	274,434 G
Fleet - Large Tractor Unit 102 (Highway)						252,140	252,140 G
Fleet - Passenger Vehicle Electric Unit 453 (Building)	30,830	G					
Fleet - Passenger Vehicle Electric Unit 455 (Building)	30,830	G					

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Fleet - Passenger Vehicle Unit 1 (Admin)					33,616		G
Fleet - Passenger Vehicle Unit 15 (Admin)				35,481			G
Fleet - Passenger Vehicle Unit 43 (Fire)			35,123				G
Fleet - Passenger Vehicle Unit 44 (Engineering)					33,616		G
Fleet - Passenger Vehicle Unit 46 (Engineering)					33,616		G
Fleet - Passenger Vehicle Unit 52 (Highway)				34,729			G
Fleet - Pickup Truck 4WD Unit 50 (Parks)	50,723						G
Fleet - Pickup Truck Unit 12 (Parks)				38,277			G
Fleet - Pickup Truck Unit 41 (Parks)	50,187						G
Fleet - School Bus Unit 14 (School)						81,942	81,942 G
Fleet - Sidewalk Tractor Plow Unit 106 (Highway)		152,912					G
Fleet - Sidewalk Tractor Plow Unit 107 (Highway)						178,571	178,571 G
Fleet - Sidewalk Tractor Plow Unit 117 (Highway)		173,967					G
Fleet - Skid Steer Loader Unit 76 (Highway)					122,182		G
Fleet - Small SUV replaces Unit 457 (Building)						33,085	33,085 G

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Fleet - Street Sweeper Unit 181 (Highway)						313,169	
Fleet - Street Sweeper Unit 182 (Highway)					264,101	G	
Fleet - SUV Emergency Response Unit 2 (Fire)			56,635	G			
Fleet - SUV Emergency Response Unit 3 (Fire)			46,116	G			
Fleet - Tractor Mower Unit 336 (Parks)				98,747	G		
Fleet - Trailer Large Unit 183 (Parks)					25,722	G	
Fleet - Transport Van Unit 1 (School)						38,388	38,388 G
Fleet - Transport Van Unit 2 (School)						38,388	38,388 G
Fleet - Transport Van Unit 3 (School)				32,875	G		
Fleet - Transport Van Unit 4 (School)					48,776	G	
Fleet - Transport Van Unit 404 (HHS Aging Services)			87,354	AG			
Fleet - Transport Van Unit 5 (School)					48,776	G	
Fleet - Transport Van Unit 6 (School)				32,875	G		
Fleet - Utility Trailer Chipper Unit 256 (Parks)						64,936	64,936 G
Fleet - Utility Trailer Portable Messenger Board Unit 120 (Highway)			23,031	G			

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020	
Fleet - Utility Truck Unit 48 (Highway)				83,561	G			
Fleet - Work Truck Class 2 Unit 2 (Fleet)						37,060	37,060	G
Fleet - Work Truck Class 2 Unit 56 (Solid Waste)						50,332	50,332	G
Fleet - Work Truck Class 2 Unit 57 (Highway)						63,804	63,804	G
Fleet - Work Truck Class 2 Unit 702 (Building Maintenance)					45,765			G
Fleet - Work Truck Class 2 Unit 705 (Building Maintenance)						37,060	37,060	G
Fleet - Work Truck Class 3 Unit 4 (Fleet)					82,671			G
Fleet - Work Truck Class 3 Unit 65 (Parks)					66,037			G
Fleet - Work Truck Class 5 Unit 55 (Highway)					142,495			G
Fleet - Work Van Unit 301 (Parks)					34,069			G
Fleet - Work Van Unit 703 (HVAC)	27,346	G						
Fleet - Work Van Unit 704 (Building Maintenance)				31,222	G			
Fleet - Work Van Unit 706 (Glazier)			35,073	G				
Fleet - Work Van Unit 708 (Delivery)		28,049	G					
Fleet - Work Van Unit 715 (Building Maintenance)						43,709	43,709	G

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020	
Fleet - Work Van Unit 92 (Engineering)						41,550	41,550	G
Fuel Island Relocation and Upgrade			131,000	G	1,056,000	G		
Fuel System Software/Hardware Upgrade		94,500	G					
Geographic Information System	100,000	G						
High School A Gym Upgrade			130,557	G				
High School Chiller					125,000	O		
High School Classroom Expansion & Other Improvements					14,138,000	ADS	431,000	G
High School Classroom Expansion Alternatives Feasibility Study			65,000	G				
High School Expansion Options		150,000	A					
High School Locker Reconfiguration & Addition						50,000	50,000	AG
High School Reconfiguration Work	200,000	G						
Hillcrest Radio Repeater Building Replacement					136,000	G		
Hillside School (Williams) Feasibility & Design		45,000	A					
Hillside School as Swing Space for School Construction						100,000		
Hillside School Boiler Upgrade						12,000		

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Library Furniture					43,970 G	112,960	112,960 G
Library Space Planning						60,000	
Library Technology						30,000	
Mail Processing Machines		30,645 G					
Memorial Park Buildings and Grounds Improvements			50,000 G	375,000 G	5,750,000 DSG		
Mitchell School Locker Replacement					70,000 A		
Mitchell School Modular Classrooms					1,560,000 AG		
Mitchell School Restroom Upgrades						67,000	67,000 G
Mobile Column Lifts		73,500 G					
Multi-Function Printer Devices						35,600	35,600 G
Needham High School Cafeteria Expansion		2,100,000 D					
Needs Assessment of Pollard, Newman and NHS Auditorium Theatrical Sound and Lighting Systems						60,000	
Network Hardware, Servers & Switches	30,000 G	30,000 G					
Newman Preschool Playground Custom Shade Shelter						69,200	69,200 G
Newman School Gym Floor						275,000	275,000 G

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Non-Public Safety Data Center Servers and Storage Units				145,000	G	180,000	G
Personal Protective Equipment				167,872	G	43,424	G
Police and Fire Mobile and Portable Radios						617,550	617,550 G
Police Use-Of-Force Training Simulator					47,000	G	
Pollard School Blue & Green Gym Upgrades				45,000	G	540,000	G
Pollard School Locker Replacement			41,157	G			
Pollard School Phased Improvements Feasibility Study					65,000	G	
Pollard School Restroom Upgrades				650,000	O		
Property Acquisition (609 Central Avenue)			762,500	X			
Property Acquisition (Owens Farm & Abutting Properties)		7,000,000	X				
Public Safety Complex/Station #2 Projects		50,000	OA	90,000	O	4,000,000	OX
Public Safety Computer Aided Dispatch System	244,615	G					
Public Safety Data Center Servers and Storage Units					30,000	G	
Public Safety Desktops, Printers and Peripherals						200,000	200,000 G
Public Safety Fitness Equipment						83,613	

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Public Safety Mobile Devices					35,000 G	35,000	35,000 G
Public Works Complex						3,062,000	
Public Works Infrastructure Program	800,000 D	1,453,500 DG	1,700,000 DG	1,762,000 G	1,773,500 DG	2,169,550	2,169,550 G
Public Works Large Format Scanner	33,000 G						
Public Works Small Specialty Equipment	29,797 G						
Public Works Storage Facility				150,000 G	4,885,000 DG		
Recycling and Transfer Station Property Improvements						295,000	295,000 G
Rosemary Complex				3,800,000 DO			
School 1:1 Initiative	127,725 G						
School Copier Replacement	30,320 G	62,740 G	39,330 G	46,790 G	84,190 G	135,520	52,470 G
School Fitness Equipment Replacement	14,810 G						
School Furniture & Musical Equipment	49,180 G	45,405 G	45,000 G	45,000 G	60,500 G	35,000	35,000 G
School Graphic Arts Equipment	8,350 G						
School Interactive Whiteboard Technology	24,600 G						
School Master Plan Supplement						125,000	125,000 G

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020						
School Phone System Replacement					319,000	G							
School Postage and Folding Machines	9,340	G											
School Technology Innovation	25,000	G											
School Technology Replacement	502,000	G	403,000	G	307,750	G	463,500	G	303,600	G	632,350	632,350	G
Specialty Equipment - Field Renovator (Parks)					30,000	G							
Specialty Equipment - Unit 344 Large Mower (Parks)							76,500	G					
Specialty Equipment - Unit 351 Tractor (Parks)							68,000	68,000	G				
Streetlight Conversion to LED							685,000	G					
Town Hall Stair Modifications					200,000	G							
Town Multi-Function Printer Devices							35,000	G					
Town Offices Replacement Furniture							25,000	G	25,000	25,000	G		
Traffic Improvements					249,000	G	50,000	G	50,000	50,000	G		
Turf Field Replacement at DeFazio Field and Memorial Park							55,000	S	2,500,000	2,500,000	S		
Williams Elementary School				57,542,500	X								
Williams Elementary School Outside Play Area				250,000	A								

**General Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
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Wireless Master Fire Box System	164,000	G					
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Funding Source

- A = Transfer from another Financial Warrant Article
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- C = CPA Fund Cash
- D = Debt
- E = Enterprise Fund Cash
- G = General Fund Cash
- O = Overlay Surplus
- R = Retained Earnings
- S = Stabilization Fund
- T = CPA General Reserve
- 1 = Community Housing Reserve
- 2 = Historic Reserve
- 3 = Open Space Reserve
- 4 = CPA Free Cash
- X = Excluded Debt

**Community Preservation Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests						2,345,765	1,147,000
Cash							
Current Receipts & State Match				1,030,000	500,000		200,000
Other Available Funds	268,219	3,417,000	978,000	4,075,000	2,450,000		947,000
Total - Cash	268,219	3,417,000	978,000	5,105,000	2,950,000		1,147,000
Debt							
CPA Surcharge Supported				8,000,000			
Total - Debt				8,000,000			
Total	268,219	3,417,000	978,000	13,105,000	2,950,000	2,345,765	1,147,000

**Community Preservation Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020	
Boat Launch Design		30,000	4					
Cricket Field Building Improvements+						163,765		
Cricket Field Improvements+				35,000	4	480,000	480,000 T	
Memorial Park Buildings and Grounds Improvements	35,000	T	310,000	4	500,000	C		
Mills Field Improvements		510,000	4					
Newman School Fields Renovation		1,527,000	4					
Open Space Purchase						1,000,000		
Passive Recreation Improvements (Dwight Field/Charles River Center) +						35,000		
Public Playgrounds+						350,000	350,000 T	
Rail Trail Improvements		100,000	4					
Ridge Hill Reservation Footbridge Repairs	213,219	3						
Rosemary Complex		450,000	4	550,000	4	12,000,000	CD T4	
Rosemary Lake Camp and Trail+					50,000	4	200,000	200,000 C
Rosemary Lake Sediment Removal			118,000	4	2,400,000	T 3,4		
Town Common Historic Redesign+	20,000	3				117,000	117,000 T	

**Community Preservation Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Trail Improvement Project - Needham Reservoir				860,000	4		
Trail Improvement Project - Newman Eastman		800,000	4				
Williams Elementary School Walking Trails				210,000	4		

Notes

+ Subject to approval by the Community Preservation Committee

<p>Funding Source A = Transfer from another Financial Warrant Article B = Operating Budget C = CPA Fund Cash D = Debt E = Enterprise Fund Cash G = General Fund Cash O = Overlay Surplus R = Retained Earnings S = Stabilization Fund T = CPA General Reserve 1 = Community Housing Reserve 2 = Historic Reserve 3 = Open Space Reserve 4 = CPA Free Cash X = Excluded Debt</p>

**RTS Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests							
Cash							
Current Receipts & Retained Earnings	321,095		215,927	725,342	345,360		
Other Available Funds			22,073				
Total - Cash	321,095		238,000	725,342	345,360		
Debt							
Fee Supported			269,000		645,000		
Total - Debt			269,000		645,000		
Total	321,095		507,000	725,342	990,360		

**RTS Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Big Belly Trash Cans					100,000	R	
Fleet - Collection Packer Unit 80				211,256	R		
Fleet - Front End Loader Unit 104			269,000	D			
Fleet - Front End Loader Unit 143					245,360	R	
Fleet - Grinder Unit 67				43,086	R		
Fleet - Swap Loader Truck Unit 5			120,000	R			
Fleet - Trommel Screener Unit 93	215,316	R					
Fuel Island Relocation and Upgrade				15,000	R		
Message Board	30,000	R					
RTS Property Improvements			68,000	AR	290,000	R	645,000
RTS Stormwater Plan			50,000	R			
Transfer Station Floor Replacement				166,000	R		
Transfer Station Office Trailer	75,779	R					

**RTS Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
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- Funding Source
- A = Transfer from another Financial Warrant Article
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 - O = Overlay Surplus
 - R = Retained Earnings
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 - T = CPA General Reserve
 - 1 = Community Housing Reserve
 - 2 = Historic Reserve
 - 3 = Open Space Reserve
 - 4 = CPA Free Cash
 - X = Excluded Debt

**Sewer Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests						2,752,755	2,431,487
Cash							
Current Receipts & Retained Earnings	398,000	554,357	63,525	87,000	2,301,111		1,631,487
Other Available Funds		116,143	10,335				
Total - Cash	398,000	670,500	73,860	87,000	2,301,111		1,631,487
Debt							
Fee Supported				600,000			800,000
Total - Debt				600,000			800,000
Total	398,000	670,500	73,860	687,000	2,301,111	2,752,755	2,431,487

**Sewer Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020	
Fleet - Heavy Duty Work Truck Class 8 Unit 29 (Jet Vac)						321,268		
Fleet - Heavy Duty Work Truck Class 8 Unit 35 (with Catch Basin Cleaner)						201,487	201,487	R
Fleet - Work Truck Class 2b Unit 94					67,864			R
Fleet - Work Truck Class 3 Unit 28					64,247			R
Fuel Island Relocation and Upgrade				87,000				R
Public Works Storage Facility					944,000			R
Sewer Main Extension Zone I and II			73,860	AR	690,000			R
Sewer Main Replacements					330,000			R
Sewer Pump Station Improvements (Alden Road)				600,000				D
Sewer Pump Station Improvements (Lake Drive)						630,000	630,000	R
Sewer Pump Station Improvements (Reservoir A)		550,000	AR					
Sewer Pump Station Improvements (West Street)	90,000							R
Sewer SCADA System	258,000							R
Sewer Service Connections	50,000		50,000					R
Sewer System Infiltration & Inflow Removal Program					205,000	1,600,000	1,600,000	R DR
Specialty Equipment Sewer Easement Machine to Clean Sewer Lines		70,500						R

Funding Source

A = Transfer from another Financial Warrant Article	E = Enterprise Fund Cash	S = Stabilization Fund	3 = Open Space Reserve
B = Operating Budget	G = General Fund Cash	T = CPA General Reserve	4 = CPA Free Cash
C = CPA Fund Cash	O = Overlay Surplus	1 = Community Housing Reserve	X = Excluded Debt
D = Debt	R = Retained Earnings	2 = Historic Reserve	

**Water Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests						4,791,500	4,791,500
Cash							
Current Receipts & Retained Earnings	729,050	980,179	345,679	433,074	3,311,048		291,500
Other Available Funds		181,925					
Total - Cash	729,050	1,162,104	345,679	433,074	3,311,048		291,500
Debt							
Fee Supported		635,000		2,300,000			4,500,000
Total - Debt		635,000		2,300,000			4,500,000
Total	729,050	1,797,104	345,679	2,733,074	3,311,048	4,791,500	4,791,500

**Water Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Birds Hill Water Tank					340,000		R
Filter Media Replacement	238,050						R
Fire Flow Improvement Study			20,000				R
Fleet - Heavy Duty Truck Class 7 Unit 14					239,404		R
Fleet - Medium Work Truck Class 4 Unit 22					115,644		R
Fleet - Pickup Truck Unit 21		41,604					R
Fleet - Pickup Truck Unit 26			43,679				R
Fleet - SUV Hybrid Unit 20				34,729			R
Fleet - Tractor Excavator Unit 115				132,000			R
Fleet - Van Unit 24				29,345			R
Fuel Island Relocation and Upgrade				162,000			R
Mobile Record Keeping Devices GIS		35,000					R
Public Works Storage Facility					1,786,000		R
Trail Improvement Project - Needham Reservoir				75,000			R
Water Distribution System Improvements					830,000	3,800,000	R 3,800,000 D

**Water Enterprise Fund Capital
 Current and Prior
 Funding Sources**

Description	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020	
Water Distribution System Improvements						430,000	430,000	D
Water Distribution System Improvements						430,000	430,000	DR
Water Distribution System Improvements						82,000	82,000	R
Water Distribution System Improvements						49,500	49,500	R
Water Service Connections	200,000	R 200,000	R 200,000	R 1,000,000				D
Water Supply Development	200,000	R 700,000	R					
Water System Rehabilitation Program					1,300,000			D
Water System Rehabilitation Program				82,000	R			
Water System Rehabilitation Program	91,000	R 820,500	ADR					

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 - 4 = CPA Free Cash
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Town of Needham
 Capital Improvement Plan
 January 2019

**All Capital Funds
 Funding Sources**

Description	Funded FY2014	Funded FY2015	Funded FY2016	Funded FY2017	Funded FY2018	Funded FY2019	Requested FY2020	Proposed FY2020
Current Year Requests							23,196,604	17,777,739
Cash								
Cash	5,566,941	2,667,260	2,432,606	2,729,117	6,468,467	10,991,289		6,988,252
Retained Earnings	2,319,100	1,448,145	1,534,536	625,131	1,245,416	5,957,519		1,922,987
Other Available Funds	1,152,000	268,219	4,035,373	1,312,408	7,963,000	4,594,000		3,566,500
Total - Cash	9,038,041	4,383,624	8,002,515	4,666,656	15,676,883	21,542,808		12,477,739
Debt								
Operating Revenues	9,847,500	1,700,000	5,735,000	769,000	17,975,000	7,316,000		5,300,000
CPA Surcharge					8,000,000			
Debt Excluded			7,000,000	58,305,000	3,750,000	66,245,000		
Total - Debt	9,847,500	1,700,000	12,735,000	59,074,000	29,725,000	73,561,000		5,300,000
Total	18,885,541	6,083,624	20,737,515	63,740,656	45,401,883	95,103,808	23,196,604	17,777,739

**Debt Service to Revenue
 Issued, Authorized and Proposed
 FY2020 - FY2024**

Description	2019	2020	2021	2022	2023	2024
Revenue						
General Fund Within the Levy *	\$155,986,155	\$164,961,066	\$168,844,207	\$172,821,381	\$176,894,896	\$181,067,116
General Fund Excluded from Levy **	\$9,057,030	\$12,122,683	\$13,837,237	\$13,556,020	\$14,686,260	\$14,233,697
CPA Revenue	\$2,933,305	\$2,837,005	\$2,908,570	\$2,981,284	\$3,055,816	\$3,132,212
RTS Revenue	\$1,142,902					
Sewer Revenue	\$8,892,436	\$8,366,360	\$8,441,024	\$8,516,434	\$8,886,699	\$8,901,484
Water Revenue	\$5,783,234	\$5,525,566	\$5,738,942	\$5,804,263	\$5,857,594	\$5,850,061
Total Revenue	\$183,795,062	\$193,812,681	\$199,769,980	\$203,679,382	\$209,381,265	\$213,184,570
Debt Service						
General Debt (Table I)	\$4,592,446	\$4,884,691	\$5,065,326	\$5,184,641	\$5,305,919	\$5,041,729
CPA Debt (Table II)	\$441,494	\$1,185,317	\$1,425,150	\$1,249,716	\$1,214,581	\$1,178,881
RTS Debt (Table III)	\$150,000	\$0	\$0	\$0	\$0	\$0
Sewer Debt (Table IV)	\$1,500,000	\$900,000	\$900,000	\$900,000	\$1,194,100	\$1,131,960
Water Debt (Table V)	\$1,550,000	\$1,250,000	\$1,420,620	\$1,442,758	\$1,452,474	\$1,400,890
Gross Excluded Debt (Table VI)	\$9,870,563	\$12,922,990	\$14,532,385	\$14,251,168	\$15,381,408	\$14,928,845
Total Debt Service	\$18,104,503	\$21,142,998	\$23,343,481	\$23,028,283	\$24,548,482	\$23,682,304
Total Debt Service to Total Revenue	9.9%	10.9%	11.7%	11.3%	11.7%	11.1%
Total Debt Service to Total Revenue (less MSBA) *	9.4%	10.5%	11.4%	11.0%	11.4%	10.8%
General Debt Service to General Revenue	2.9%	3.0%	3.0%	3.0%	3.0%	2.8%

* General Fund revenue is based on the preliminary estimate for FY2020 increased annually.

** Excludes Massachusetts School Building Assistance (MSBA) Revenue.

*** Uses net general fund debt excluded figure (or actual debt to be paid by Town after MSBA payment) see table VI.

Projected Debt Service as a Percentage of Revenue

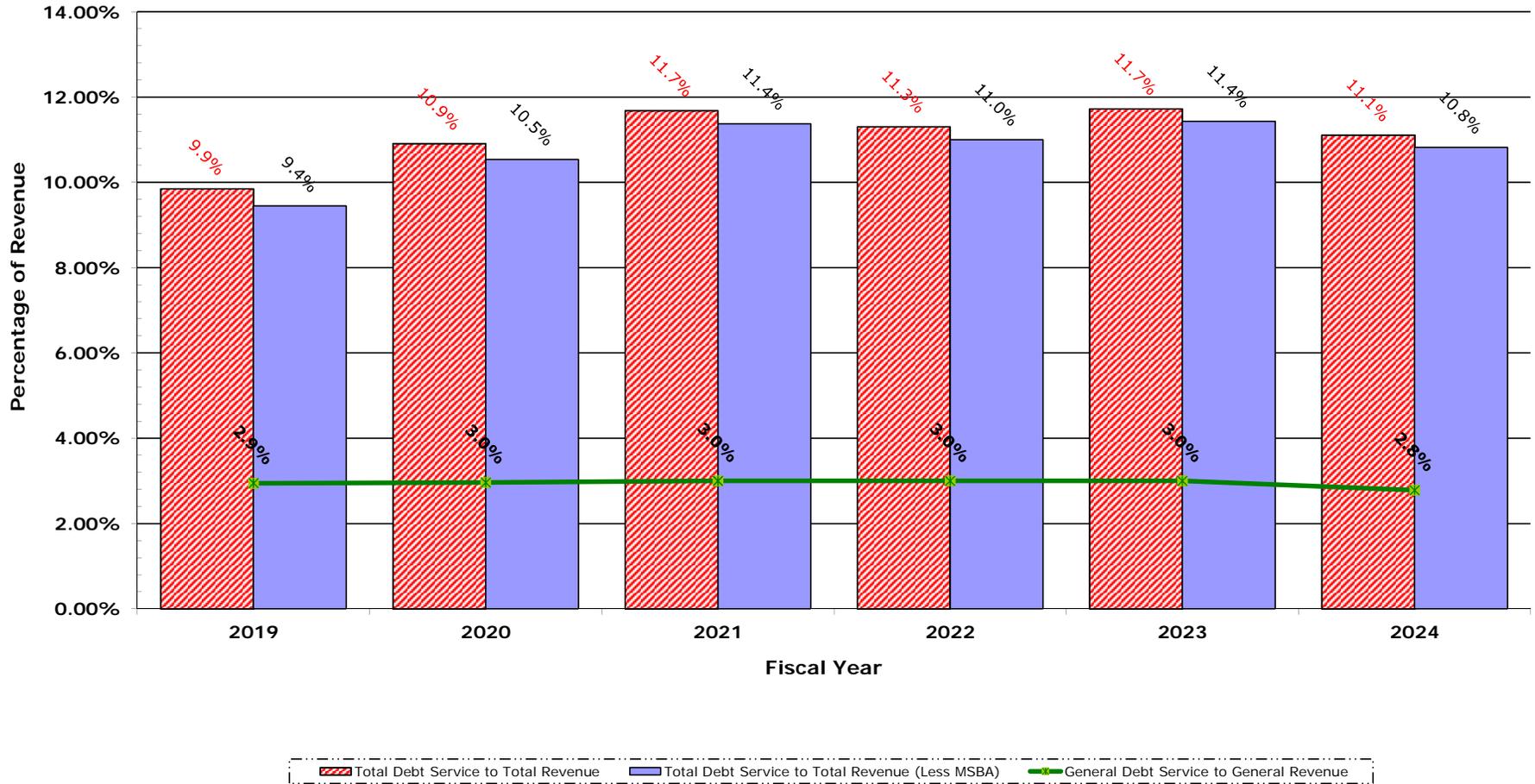


Table I
General Fund Capital Projects
Proposed Funding by Debt
FY2020

Project	Amount	Years +	Bond Rate^	Budget	Estimated Debt Service Schedule				
				2019	2020	2021	2022	2023	2024
General Fund Within the Levy									
No New Authorizations Proposed for FY2020									
Mitchell School Restroom Upgrades (2021)	670,000	3	7.00%				\$181,900	\$307,450	\$283,550
Pollard School Air Conditioning Upgrade (2022)	1,125,000	4	7.00%					\$303,750	\$363,000
Pollard School Locker Room Retrofit (2022)	630,000	3	7.00%					\$254,100	\$239,400
Sutphen Quint Ladder Truck (2024)	1,348,060	3	7.00%						\$552,424
Projected New General Fund Debt Service#	3,773,060						\$181,900	\$865,300	\$1,438,374
General Fund Debt									
Authorized & Issued (refer to schedule)				\$2,522,886	\$4,194,193	\$3,444,253	\$3,031,939	\$2,251,469	\$2,101,805
Authorized Not Yet Issued & Short Term Costs Proposed				\$2,069,560	\$690,498	\$1,621,074	\$1,970,803	\$2,189,150	\$1,501,550
							\$181,900	\$865,300	\$1,438,374
Total General Fund Debt Service Within the Levy				\$4,592,446	\$4,884,691	\$5,065,326	\$5,184,641	\$5,305,919	\$5,041,729
General Fund Within the Levy Revenue *				\$155,986,155	\$164,961,066	\$168,844,207	\$172,821,381	\$176,894,896	\$181,067,116
Debt Service % of General Fund Revenue				2.9%	3.0%	3.0%	3.0%	3.0%	2.8%

Table II
CPA Capital Projects
Proposed Funding by Debt
FY2020

Project	Amount	Years +	Bond Rate^	Budget	Estimated Debt Service Schedule				
				2019	2020	2021	2022	2023	2024
CPA Fund Debt									
No New Authorizations Proposed for FY2020									
Projected New CPA Fund Debt Service									
CPA Fund Debt									
Authorized & Issued				\$441,494	\$860,317	\$762,675	\$741,041	\$721,256	\$700,906
Authorized Not Yet Issued & Short Term Costs Proposed				\$0	\$325,000	\$662,475	\$508,675	\$493,325	\$477,975
Total CPA Fund Debt Service				\$441,494	\$1,185,317	\$1,425,150	\$1,249,716	\$1,214,581	\$1,178,881

Table III
Recycling & Solid Waste Disposal Capital Projects
Proposed Funding by Debt
FY2020

Project	Amount	Years +	Bond Rate^	Budget	Estimated Debt Service Schedule				
				2019	2020	2021	2022	2023	2024
<u>Recycling & Solid Waste Disposal Enterprise (RTS)</u>									
Enterprise Discontinued Effective FY2020									
Projected New RTS Debt Service									
RTS Enterprise Fund Debt									
Authorized & Issued (refer to schedule)				\$58,800					
Authorized Not Yet Issued & Short Term Costs Proposed				\$91,200					
Total RTS Debt Service				\$150,000					

Table IV
Sewer Fund Capital Projects
Proposed Funding by Debt
FY2020

Project	Amount	Years +	Bond Rate^	Budget	Estimated Debt Service Schedule				
				2019	2020	2021	2022	2023	2024
<u>Sewer Enterprise</u>									
Sewer System Inflow & Infiltration Removal (2020)	800,000	5	7.00%			\$188,000	\$204,800	\$193,600	\$182,400
Sewer Main Replacements (2021)	1,500,000	5	7.00%				\$52,500	\$405,000	\$384,000
Sewer Pump Station Improvements (2023)	2,500,000	10	7.00%						\$87,500
Projected New Sewer Debt Service	4,800,000					\$188,000	\$257,300	\$598,600	\$653,900
Sewer Enterprise Fund Debt									
Authorized & Issued (refer to schedule)				\$989,382	\$585,826	\$541,166	\$537,182	\$533,150	\$424,560
Authorized Not Yet Issued & Short Term Costs Proposed				\$510,618	\$314,174	\$170,834	\$105,518	\$62,350	\$53,500
						\$188,000	\$257,300	\$598,600	\$653,900
Total Sewer Debt Service				\$1,500,000	\$900,000	\$900,000	\$900,000	\$1,194,100	\$1,131,960

Table V
Water Fund Capital Projects
Proposed Funding by Debt
FY2020

Project	Amount	Years +	Bond Rate^	Budget	Estimated Debt Service Schedule				
				2019	2020	2021	2022	2023	2024
<u>Water Enterprise</u>									
Water Main Replacement Project (2020)	4,500,000	20	7.00%			\$502,500	\$443,138	\$431,325	\$484,350
Water Pressure Improvements (2021)	2,000,000	10	7.00%				\$105,000	\$305,000	\$326,000
Projected New Water Debt Service	6,500,000					\$502,500	\$548,138	\$736,325	\$810,350
Water Enterprise Fund Debt									
Authorized & Issued (refer to schedule)				\$1,317,676	\$770,858	\$747,120	\$734,120	\$716,149	\$590,540
Authorized Not Yet Issued & Short Term Costs Proposed				\$232,324	\$479,142	\$171,000	\$160,500	\$736,325	\$810,350
Total Water Debt Service				\$1,550,000	\$1,250,000	\$1,420,620	\$1,442,758	\$1,452,474	\$1,400,890

Table VI
Capital Projects
Proposed Funding by Debt Exclusion
FY2020

Project	Amount	Years +	Bond Rate [^]	Budget	Estimated Debt Service Schedule					
				2019	2020	2021	2022	2023	2024	
<u>General Fund Debt Excluded</u>										
No New Authorizations Proposed for FY2020										
Projected New General Fund Debt Service Excluded										
General Fund Debt Excluded										
Authorized & Issued (refer to schedule)				\$6,930,914	\$8,195,740	\$6,747,385	\$6,530,668	\$6,323,088	\$6,105,095	
Authorized Not Yet Issued & Short Term Costs Proposed				\$2,939,649	\$4,727,250	\$7,785,000	\$7,720,500	\$9,058,320	\$8,823,750	
Total General Fund Excluded Debt Service				\$9,870,563	\$12,922,990	\$14,532,385	\$14,251,168	\$15,381,408	\$14,928,845	
Projected SBA Payments/Other Adjustments				\$813,533	\$800,307	\$695,148	\$695,148	\$695,148	\$695,148	
Net General Fund Excluded Debt Service				\$9,057,030	\$12,122,683	\$13,837,237	\$13,556,020	\$14,686,260	\$14,233,697	

**Previously Approved Debt Funded Capital
 Open Authorizations
 Balances Not Yet Issued**

Approved	Project	Grp	Town Meeting	Art	New Account	Authorized	Balance
2016	Water System Rehabilitation Program	W	11-May-15	47	4148	\$635,000	\$307,000
2017	Central Avenue Elementary School (Williams)	E	05-Oct-16	2	3128	\$57,542,500	\$30,115,869
2018	Water Distribution System Improvements	W	01-May-17	51	4151	\$1,300,000	\$168,735
2018	Rosemary Recreational Complex - CPA	C	08-May-17	33	3130	\$8,000,000	\$4,000,000
2017	High School Expansion Design	G	10-May-17	43	3136	\$950,000	\$50,000
2018	Wastewater System Rehabilitation	S	10-May-17	48	4042	\$600,000	\$273,550
2017	Public Safety Building & Station 2 Design	E	02-Oct-17	11	3140	\$3,750,000	\$3,750,000
2017	High School Expansion Construction	G	02-Oct-17	13	3141	\$11,125,000	\$4,175,000
2019	RTS Property Improvements	G	07-May-18	37	4241	\$645,000	\$645,000
2019	Memorial Park Building Project	G	09-May-18	30	3145	\$2,918,000	\$2,918,000
2019	Public Works Infrastructure Program	G	09-May-18	34	3148	\$250,000	\$250,000
2019	Public Works Storage Facility	G	14-May-18	35	3149	\$3,503,000	\$3,503,000
2019	Public Safety Buildings Construction	E	10-Oct-18	10	TBD	\$66,245,000	\$66,245,000
Total						\$157,463,500	\$116,401,154

The above projects are in various stages of completion and therefore the amount and timing of each Note and Bond issue has not yet been determined. The debt retirement will be structured to fit within the proposed budget allocation shown in the debt tables.

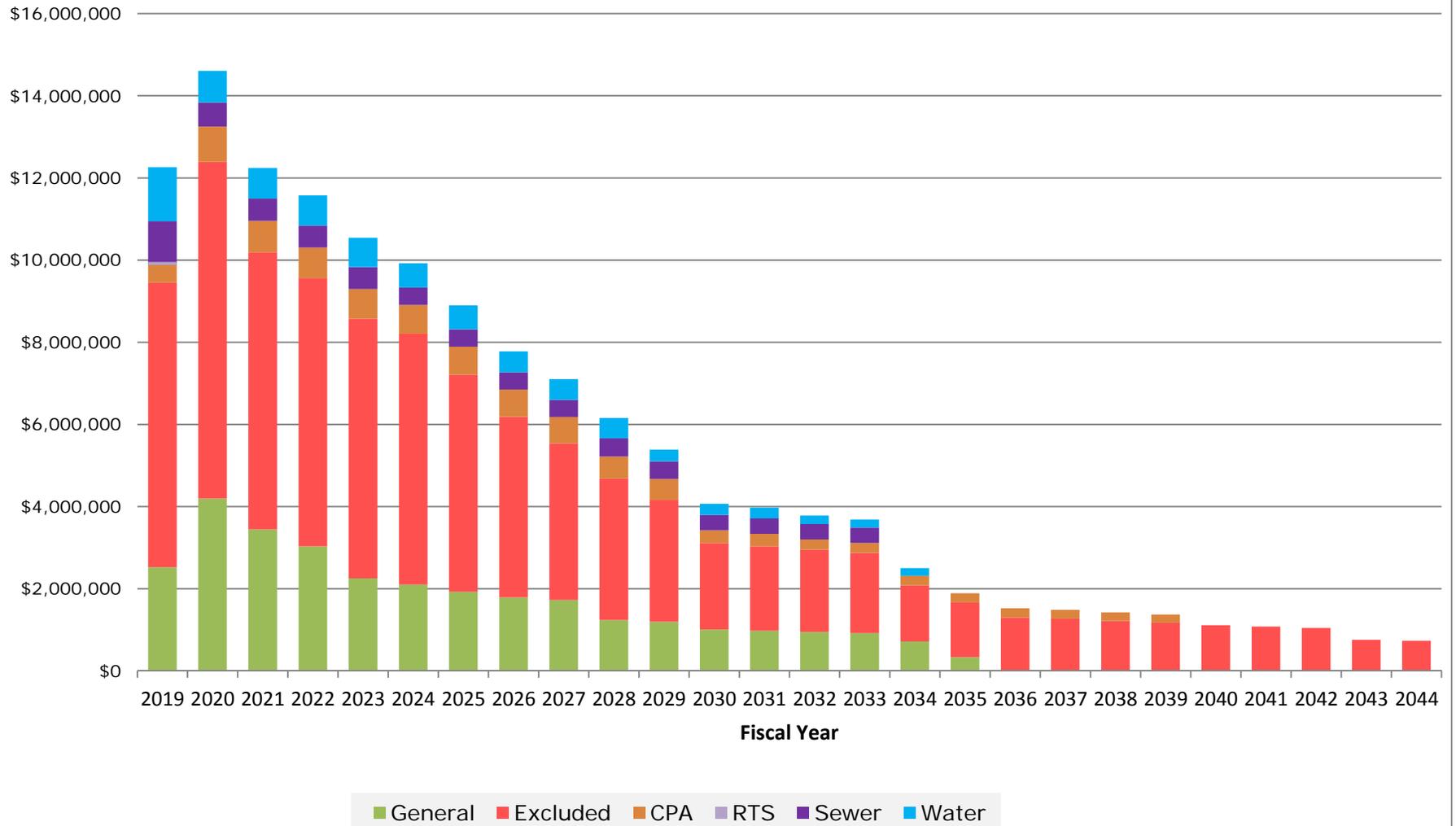
**Town of Needham
 Current Long Term Debt Service Obligations
 Inclusive of the July 31, 2018 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2019	\$2,522,886.17	\$6,930,913.75	\$441,493.75	\$58,800.00	\$989,381.84	\$1,317,676.14	\$12,261,151.65
2020	\$4,194,193.22	\$8,195,740.00	\$860,316.67		\$585,826.46	\$770,857.68	\$14,606,934.03
2021	\$3,444,252.52	\$6,747,385.00	\$762,675.00		\$541,165.82	\$747,120.10	\$12,242,598.44
2022	\$3,031,938.77	\$6,530,667.50	\$741,040.63		\$537,182.43	\$734,120.06	\$11,574,949.39
2023	\$2,251,468.77	\$6,323,087.50	\$721,256.26		\$533,150.45	\$716,148.92	\$10,545,111.90
2024	\$2,101,805.02	\$6,105,095.00	\$700,906.26		\$424,559.50	\$590,539.58	\$9,922,905.36
2025	\$1,923,352.52	\$5,288,635.00	\$680,762.51		\$423,230.66	\$581,721.91	\$8,897,702.60
2026	\$1,788,627.52	\$4,398,010.00	\$660,681.26		\$421,802.39	\$509,128.76	\$7,778,249.93
2027	\$1,725,459.39	\$3,813,450.00	\$640,306.26		\$420,276.63	\$502,758.76	\$7,102,251.04
2028	\$1,236,726.26	\$3,445,167.50	\$535,996.88		\$443,252.24	\$496,911.50	\$6,158,054.38
2029	\$1,195,290.64	\$2,967,568.75	\$507,637.50		\$430,929.00	\$283,288.06	\$5,384,713.95
2030	\$1,005,236.27	\$2,106,907.50	\$309,812.50		\$374,907.65	\$267,663.04	\$4,064,526.96
2031	\$976,313.76	\$2,058,548.75	\$302,625.00		\$374,987.84	\$261,387.51	\$3,973,862.86
2032	\$946,702.50	\$2,006,497.50	\$246,000.00		\$375,070.14	\$206,775.00	\$3,781,045.14
2033	\$916,455.00	\$1,957,813.76	\$240,000.00		\$375,154.05	\$195,650.00	\$3,685,072.81
2034	\$717,425.00	\$1,364,456.26	\$234,000.00			\$184,600.00	\$2,500,481.26
2035	\$329,875.00	\$1,332,943.76	\$228,000.00				\$1,890,818.76
2036		\$1,301,050.00	\$222,000.00				\$1,523,050.00
2037		\$1,268,325.00	\$215,875.00				\$1,484,200.00

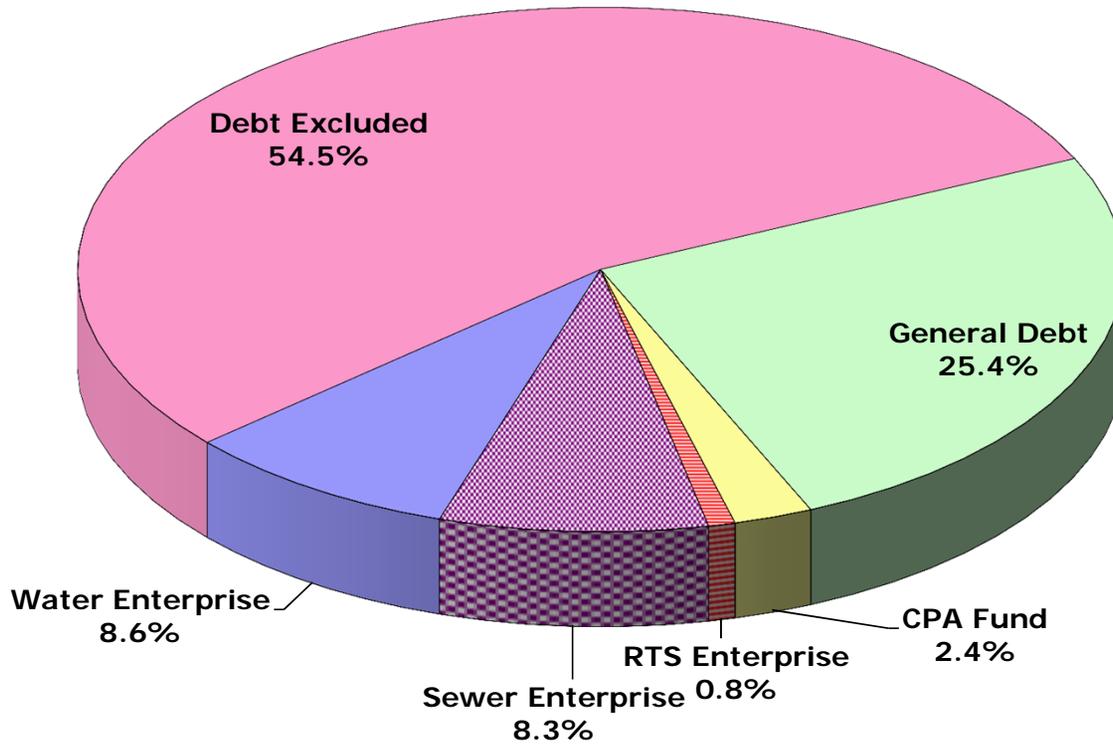
**Town of Needham
 Current Long Term Debt Service Obligations
 Inclusive of the July 31, 2018 Bond Issue**

Fiscal Year	General	Excluded	CPA	RTS	Sewer	Water	Total
2038		\$1,213,625.00	\$209,625.00				\$1,423,250.00
2039		\$1,169,275.00	\$203,250.00				\$1,372,525.00
2040		\$1,110,800.00					\$1,110,800.00
2041		\$1,077,750.00					\$1,077,750.00
2042		\$1,043,000.00					\$1,043,000.00
2043		\$757,800.00					\$757,800.00
2044		\$732,600.00					\$732,600.00
2045							

Current Total Annual Long Term Debt Service
 By Category
 FY2019 - FY2044



**FY2019
Debt Service
Share of Total**



- General Debt
- CPA Fund
- ▨ RTS Enterprise
- ▨ Sewer Enterprise
- ▨ Water Enterprise
- ▨ Debt Excluded

**Projected Gross Debt Service
\$18,104,503**

Town of Needham
Capital Improvement Plan
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE						DEBT SERVICE							
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	2019	2020	2021	2022	2023	2024	2025 - 2029	After 2029
Central Ave & Elliot Street Bridge Construction	May-15	43	\$500,000	Jan-27	4.00%	68,000	66,000	64,000	62,000	60,000	58,000	162,000	
Central Ave & Elliot Street Bridge Design	May-14	39	\$250,000	Nov-18	3.67%	63,750							
DPW Garage Bays	May-13	42	\$800,000	May-24	2.09%	90,000	88,400	86,800	85,200	83,600	82,000		
High School Cafeteria Construction	Nov-15	11	\$1,500,000	Jan-27	4.00%	204,000	198,000	192,000	186,000	180,000	174,000	486,000	
Kendrick Street Bridge Repair	May-10	35	\$750,000	Aug-21	2.21%	81,188	79,594	77,813	75,938				
MWPAT 98-92 (Stormwater)	May-98	7	\$364,979	Aug-19	(see note)	29,874	28,567						
Pollard School Boiler Replacement	May-13	40	\$565,000	Jul-21	3.22%	78,050	75,950	73,500	71,050				
Pollard School Roof Replacement	Nov-10	10	\$725,000	Jul-22	3.67%	82,600	79,800	77,000	74,200	71,400			
Property Acquisition - 37-39 Lincoln Street	May-12	31	\$605,000	Nov-32	3.39%	44,550	43,350	42,300	41,400	40,500	39,600	184,331	129,169
Property Acquisition - 51 Lincoln Street	Nov-12	17	\$950,000	Nov-32	3.39%	72,575	70,575	68,825	67,325	65,825	59,400	276,497	193,753
Property Acquisition - 59 Lincoln & 89 School Streets	May-12	8	\$1,005,000	Nov-32	3.39%	74,250	72,250	70,500	69,000	67,500	66,000	307,219	215,281
Property Acquisition - 66 - 70 Chestnut Street	Nov-13	22	\$1,330,000	Nov-33	3.35%	108,150	105,350	102,550	99,750	96,950	94,150	430,675	376,250
Property Acquisition 59 Lincoln Street & 89 School Street	May-12	8	\$52,500	Jul-32	2.93%	4,105	3,985	3,865	3,745	3,625	3,505	12,625	8,458
Public Services Administration Building	Oct-08	5	\$100,000	Jul-22	3.69%	11,800	11,400	11,000	10,600	10,200			
Public Services Administration Building (Series I)	Oct-08	5	\$4,000,000	Aug-26	3.16%	306,225	299,325	292,125	284,625	276,825	268,725	677,663	
Public Services Administration Building (Series II)	Oct-08	5	\$1,000,000	Dec-24	3.07%	80,488	78,538	86,438	84,094	81,563	78,938	76,313	

Town of Needham
Capital Improvement Plan
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE

Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	DEBT SERVICE							
						2019	2020	2021	2022	2023	2024	2025 - 2029	After 2029
Public Works Infrastructure Program	May-12	33	\$190,000	Nov-18	3.67%	48,450							
Public Works Infrastructure Program	May-13	41	\$500,000	Nov-18	3.60%	127,500							
Public Works Infrastructure Program	May-14	38	\$580,000	Nov-18	3.67%	147,900							
Public Works Infrastructure Program	May-15	42	\$750,000	Jan-21	4.00%	222,000	214,000	156,000					
Senior Center (Series I)	Nov-11	14	\$1,000,000	Nov-32	3.38%	73,506	71,506	69,756	68,256	66,756	65,256	303,500	193,753
Senior Center (Series II)	Nov-11	14	\$5,050,000	Jul-33	3.54%	390,925	383,275	374,350	365,425	357,775	348,850	1,596,406	1,373,594
Senior Center (Series III)	Nov-11	14	\$1,050,500	May-34	2.83%	77,100	76,000	74,900	73,800	72,700	71,600	313,400	276,250
Title V Loans	May-97	64	\$85,894	Aug-19	(see note)	5,120	4,854						
Front-End Loader	May-16	46	\$205,000	Jan-20	4.00%	RTS	41,600						
Central Avenue/Elliott Street Bridge	May-15	43	\$240,000	Jul-21	5.00%		95,500	86,000	82,000				
Rosemary Recreational Complex	May-17	33	\$2,260,000	Jul-28	5.00%		608,417	533,875	360,000	198,750	191,250	843,750	
High School Expansion Construction	Oct-17	13	\$6,500,000	Jul-34	3.86%		1,367,708	871,000	838,500	489,125	472,875	2,120,625	2,125,500
Town Hall	May-09	35	\$385,000	Aug-26	2.63%	30,781	30,250	29,656	29,031	28,375	27,656	78,453	
TOTAL GENERAL FUND						2,522,886	4,194,193	3,444,253	3,031,939	2,251,469	2,101,805	7,869,456	4,892,008

Town of Needham
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE

Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	DEBT SERVICE							
						2019	2020	2021	2022	2023	2024	2025 - 2029	After 2029
Broadmeadow School	May-00	31	\$8,400,000	Nov-23	3.00%	801,325	771,225	741,425	708,700	678,000	642,600		
Eliot School	May-00	32	\$2,562,000	Nov-24	3.94%	314,400	304,400	294,400	284,400	269,500	259,700	249,900	
High Rock & Pollard School Projects	May-07	41	\$429,470	Aug-26	4.00%	78,285	75,660	68,360	66,160	63,960	56,860	155,150	
High Rock & Pollard School Projects (Series III)	May-07	41	\$2,253,010	Aug-27	4.00%	358,623	342,460	327,160	312,060	297,160	287,360	1,010,750	
High Rock & Pollard School Projects (Series IV)	May-07	41	\$10,500,000	Aug-28	3.35%	758,031	742,075	720,500	703,313	685,438	666,875	3,023,625	
High Rock School Design	Nov-06	9	\$187,770	Aug-26	4.00%	32,934	31,840	30,840	29,840	28,840	27,840	61,950	
High School (Series IIA)	May-03	31	\$2,991,900	Aug-24	4.00%	660,188	602,700	582,900	558,200	538,600	514,100	494,700	
High School (Series IIB)	Feb-05	1	\$782,850	Aug-26	4.00%	138,234	128,740	124,740	115,840	112,040	108,240	300,450	
High School (Series III)	Feb-05	1	\$3,850,000	Jun-28	3.42%	267,450	259,450	253,450	247,200	240,450	233,700	767,300	
High School Series 1	May-03	31	\$4,775,000	Nov-25	3.97%	653,700	589,000	560,400	542,000	523,600	500,300	941,100	
Library Project	May-03	30	\$6,510,000	Dec-19	3.00%	830,475	796,775						
Newman School Extraordinary Repairs (Series I)	Nov-09	14	\$1,000,000	Dec-19	2.62%	104,500	101,500						
Newman School Extraordinary Repairs (Series III)	Nov-09	14	\$5,000,000	Oct-28	3.35%	383,750	373,600	359,600	348,925	341,050	332,650	1,482,475	
Newman School Extraordinary Repairs (Series IV)	Nov-09	14	\$9,000,000	Jul-32	2.82%	646,420	628,340	610,260	592,180	574,100	556,020	2,604,300	1,883,580
Newman School Extraordinary Repairs (Series V)	Nov-09	14	\$2,200,000	Nov-32	3.39%	163,350	158,950	155,100	151,800	148,500	145,200	675,881	473,619
Owens Farm Land Purchase	Nov-15	13	\$7,000,000	Jan-42	3.70%	600,900	516,900	505,700	494,500	483,300	472,100	2,192,500	4,378,400

Town of Needham
Capital Improvement Plan
January 2019

TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE						DEBT SERVICE 2019	DEBT SERVICE 2020	DEBT SERVICE 2021	DEBT SERVICE 2022	DEBT SERVICE 2023	DEBT SERVICE 2024	DEBT SERVICE 2025 - 2029	DEBT SERVICE After 2029
Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*								
William School Construction Project	Oct-16	2	\$18,000,000	Jul-43	3.53%		1,728,375	1,369,800	1,333,800	1,297,800	1,261,800	5,769,000	13,466,700
Property Acquisition - 609 Central Street	May-16	7	\$730,000	Jan-39	3.68%	138,350	43,750	42,750	41,750	40,750	39,750	183,750	299,094
TOTAL GENERAL FUND EXCLUDED						6,930,914	8,195,740	6,747,385	6,530,668	6,323,088	6,105,095	19,912,831	20,501,393
Town Hall (Series II)	May-09	35	\$3,500,000	Oct-28	3.36%	267,969	260,900	251,150	243,716	238,231	232,381	1,053,509	
Town Hall (Series III)	May-09	35	\$1,225,000	Aug-26	2.63%	98,500	96,800	94,900	92,900	90,800	88,500	251,050	
Rosemary Recreational Complex	May-17	33	\$4,000,000	Jul-37	3.57%		429,792	346,000	336,000	326,000	316,000	1,430,000	2,308,750
Town Hall (Series IV)	May-09	35	\$970,000	Jul-30	2.80%	75,025	72,825	70,625	68,425	66,225	64,025	290,825	102,438
TOTAL COMMUNITY PRESERVATION FUND						441,494	860,317	762,675	741,041	721,256	700,906	3,025,384	2,411,188
Front-End Loader	May-16	46	\$205,000	Jan-20	4.00%	58,800							
TOTAL RTS ENTERPRISE						58,800							
MWPAT 97-13	Oct-96	8	\$67,700	Aug-18	(see note)	6,150							
MWPAT 97-33	Oct-96	7	\$180,300	Aug-18	(see note)	16,195							
MWPAT 97-63	May-97	46	\$1,019,778	Aug-18	(see note)	91,840							
MWPAT 98-10	May-97	42	\$130,200	Aug-18	(see note)	11,685							

Town of Needham
Capital Improvement Plan
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE

Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	DEBT SERVICE	DEBT SERVICE						
						2019	2020	2021	2022	2023	2024	2025 - 2029	After 2029
Sewer - West Street Force Main	May-98	59	\$568,400	May-19	3.98%	67,600							
Sewer - West Street Pumping Station	May-98	58	\$1,252,300	May-19	3.98%	147,680							
Sewer Pump Station GPA	May-05	49	\$500,000	Jun-19	3.17%	52,000							
Sewer Pump Station GPA	May-08	45	\$550,000	Aug-28	3.36%	40,438	39,575	33,750	32,969	32,156	31,313	166,338	
Sewer Pump Station Reservoir B	Nov-11	15	\$6,034,290	Jan-33	2.15%	374,129	374,192	374,256	374,323	374,391	374,460	1,873,391	1,500,120
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$145,000	Dec-19	2.59%	15,525	10,150						
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$500,000	Nov-22	4.00%	109,100	105,300	77,000	74,200	71,400			
MWRA Sewer System Rehab - I/I Work	May-17	48	\$179,548	May-23		35,910	35,910	35,910	35,910	35,910			
Sewer Rehabilitation - Rte. 128 Area	Nov-05	9	\$320,000	Aug-28	3.39%	21,131	20,700	20,250	19,781	19,294	18,788	99,763	
TOTAL SEWER ENTERPRISE						989,382	585,826	541,166	537,182	533,150	424,560	2,139,491	1,500,120
MWPAT Water DWS-08-24	May-08	47	\$765,335	Jul-30	2.00%	49,230	49,169	49,106	49,044	48,979	48,913	243,528	96,901
St Mary's Pump Station	May-13	47	\$1,700,000	Nov-33	3.36%	138,750	135,150	131,550	127,950	124,350	120,750	552,225	472,550
St Mary's Pump Station	May-13	47	\$1,995,000	May-34	2.85%	142,775	140,775	138,775	136,775	134,775	132,775	625,925	546,625
Water Distribution System Improvements	May-09	56	\$400,000	Dec-24	3.02%	30,313	29,563	28,813	28,031	27,188	26,313	25,438	
Water Main Improvements	May-08	47	\$400,000	Nov-20	3.95%	50,400	48,800	47,200	45,600	44,000	42,400	40,800	
Water Service Connections	May-06	70	\$55,000	Aug-19	2.51%	5,219	5,075						

Town of Needham
Capital Improvement Plan
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TOWN OF NEEDHAM SCHEDULE OF ISSUED LONG TERM DEBT SERVICE

Project	TM Vote	Art	Amount Issued	Final Maturity	Average Rate*	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE	DEBT SERVICE				
						2019	2020	2021	2022	2023	2024	2025 - 2029	After 2029
Water Storage Tank Rehabilitation	May-08	48	\$655,000	Jun-19	3.16%	67,600							
Water System Rehabilitation	May-15	47	\$260,000	Jan-20	4.00%	32,400	31,200						
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$212,000	Jun-19	3.16%	20,800							
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$638,000	Nov-22	4.00%	114,900	111,100	131,800	127,000	117,300			
Water System Rehabilitation - Rte. 128 Area	May-06	71	\$100,000	Aug-28	3.41%	7,044	6,900	6,750	6,594	6,431	6,263	33,388	
Water Treatment Facility	May-96	47	\$1,710,000	May-19	3.98%	204,360							
Water Service Connection Replacement (MWRA)	May-17	50	\$1,000,000	May-28		100,000	100,000	100,000	100,000	100,000	100,000	400,000	
Water System Rehabilitation (MWRA)	May-17	51	\$1,131,265	May-28		113,127	113,127	113,127	113,127	113,127	113,127	452,506	
Water Treatment Facility	Nov-97	18	\$1,994,300	May-19	3.98%	240,760							
TOTAL WATER ENTERPRISE						1,317,676	770,858	747,120	734,120	716,149	590,540	2,373,809	1,116,076
TOTAL DEBT SERVICE						12,261,152	14,606,934	12,242,598	11,574,949	10,545,112	9,922,905	35,320,972	30,420,783

Note: Massachusetts Water Pollution Abatement Trust (MWPAT) loans include many communities and multiple loans and are restructured from time to time by the Trust. The program provides grants and other financial assistance which in some instances results in a low or no interest rate loan.

* Rate reflects the average coupon rate over the life of the loan.