Project Submissions

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				Capital P	roject Request				
Project Title:	Town Offices R	eplacement Furnitu	re					Fiscal Year:	2020
Purpose:	Acquisition		Classification:	Equipment		Status:	New Request		
Department:	Town Manager			-		Supports:	General Governme	nt	
Partners:						Useful Life:	More than five (5)	years but less than	eight (8) years
				<u>Parameters</u>					<u>Response</u>
1. Are there any co	osts to bid, design,	construct, purchase, ir	nstall, implement, o	r otherwise com	olete the project which	are NOT included	is this request?		No
2. Are there recom	nmendations or co	sts identified by other	departments which	are NOT factore	d into the request?				No
3. Does this project	t require any perm	nitting by any Town or	State agency?						No
		as the Department con							No
5. If this request is	for Building Impro	vements, has the Depa	artment communic	ated with the Bui	Iding Maintenance (BN	 division, and do 	es BM support the re	equest?	No
6. If funded, will a	dditional permanei	nt staff be required?					Total New FTE's:		No
7. If funded, will th	ne operating budge	t need to be increased	to cover operating	expenses?					No
8. If funded, will th	nis project lower th	e requesting Departme	ent's operating cos	ts?					No
		ongoing assistance from		ditional expense	to the Town which is N	IOT already budget	ed?		No
10. If the project is	s NOT funded, will	current Town revenue	be reduced?						No
11. Is specialized t	raining or annual li	censing required that t	he Town will need	to pay in order to	use the asset?				No
12. Is this a project	t for which an Initia	al Eligibility Project App	olication can be file	d with the Comm	unity Preservation Cor	nmittee (CPC)?			No
13. Is this a request in response to a Court, Federal, or State order?						No			
14. Is this a request in response to a documented public health or safety condition?							No		
15. Is this a request to improve or make repairs to extend the useful life of a building?							No		
		aratus/equipment that				ts use?			No
17. Is this a reques	st to repair or othe	rwise improve public p	roperty which is N (OT a building or in	nfrastructure?				No
18. Will any other	department be rec	quired to provide assist	ance in order to co	mplete the proje	ct?				No
19. If funded, will	this project increas	e the operating expens							No
Project Cost:	\$50,000	How was the Project	t Cost Determined:		In-House Estimate				
Budget Impact:		on the annual operati	ng expenses less th	an \$5,000					
	lget Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibilit	•	\$0							
Design/Engineerin	-	\$0							
Land/ROW Acquis	ition	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Man	agement	\$0							
Equipment		\$0							
Furniture, Fixtures		\$50,000	\$25,000		\$25,000		\$0		
Technology Hardw	/are/Software	\$0							
Other Expenses		\$0							
TOTAL		\$50,000	\$25,000	Ş	\$0 \$25,000	\$0	\$0	\$0	\$0
\$0									FY2020

		apital Project Request	
Project Title:	Town Offices Replacement Furniture	Fiscal Year:	2020

Project Description and Considerations

Town Hall was renovated with new furniture when it re-opened in September, 2011. The furniture which receives the heaviest use is beginning to show wear and tear and needs to be replaced. The same situation is true for the Public Services Administration Building. It was opened as a new building with new furniture in February, 2010.

A furniture inventory, including current condition, has been done for the Town Hall and for the Public Services Administration Building and will be updated annually. In Fiscal Year 2019, the Town Hall's Board of Selectmen's conference table and chairs (to go around table) and some of the office and common area furniture in fair condition was replaced. Unfortunately the price for quality furniture (not the highest, but still sturdy) proved to absorb most of the appropriation, with the rest of the funds being used for some replacement furniture in Town Hall and at the Public Services Administration Building.

This request for \$25,000 in Fiscal Year 2020 should allow for the purchase of replacement furniture not able to be purchased in FY2019, including replacement of tattered audience chairs in the much used Powers Hall at Town Hall and the wobbly conference tables in the Public Services Administration Building. The tables in the Charles River Conference room are inadequate to fit the oft changing physical layout of the room. Many of the meetings held in that room require different physical layouts and the current table inventory does not allow for flexibility in floorplan. Depending upon the condition of the furniture in out-lying years, this request may be repeated either annually or every other year.

FYI - replacement furniture prices at 2019 pricing: office task chairs \$830 each. 3 drawer regular file cabinets \$725 each. conference tables \$1,500 each, conference chairs \$650 each, sled chairs in Powers Hall \$500 each.

				Capital F	Project Request				
Project Title:	Town Building	Switching						Fiscal Year:	2024
Purpose:	Acquisition	(Classification:	Technology		Status:	New Request		
Department:	Finance					Supports:	General Governme	nt	
Partners:						Useful Life:	More than five (5)	years but less than	eight (8) years
				<u>Parameters</u>					<u>Response</u>
1. Are there any co	sts to bid, design,	construct, purchase, in	stall, implemen	t, or otherwise con	nplete the project wh	ich are NOT include	d is this request?		No
		sts identified by other o		nich are NOT factor	ed into the request?				No
3. Does this project	t require any perm	nitting by any Town or S	State agency?						No
4. If this request is	for Technology, h	as the Department com	municated with	n ITC, and does ITC	support the request?	1			Not Applicable
5. If this request is	for Building Impro	vements, has the Depa	rtment commu	nicated with the Bu	uilding Maintenance (BM) division, and d	loes BM support the re	equest?	Not Applicable
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:		No
7. If funded, will th	e operating budge	t need to be increased	to cover operat	ting expenses?					No
8. If funded, will th	is project lower th	e requesting Departme	ent's operating o	costs?					No
9. If funded, will th	is project require	ongoing assistance fror	n vendors at an	additional expense	to the Town which i	s NOT already budg	eted?		No
10. If the project is	NOT funded, will	current Town revenue	be reduced?						Not Applicable
11. Is specialized to	raining or annual li	censing required that t	he Town will ne	ed to pay in order	to use the asset?				Yes
12. Is this a project	t for which an Initia	al Eligibility Project App	lication can be	filed with the Comi	munity Preservation (Committee (CPC)?			No
13. Is this a request in response to a Court, Federal, or State order?							No		
14. Is this a request in response to a documented public health or safety condition?							No		
15. Is this a reques	t to improve or ma	ake repairs to extend th	ne useful life of a	a building?					No
16. Is this a reques	t to purchase appa	aratus/equipment that	is intended to b	e permanently inst	alled at the location of	of its use?			No
17. Is this a reques	t to repair or othe	rwise improve public p	roperty which is	NOT a building or	infrastructure?				No
18. Will any other	department be red	quired to provide assist	ance in order to	complete the proj	ect?				No
19. If funded, will t	his project increas	e the operating expens	se for any other	department?					No
Project Cost:	\$60,000	How was the Project	Cost Determin	ed:	In-House Estimat	te			
		on the annual operation	ng expenses less	s than \$5,000					
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibilit	у	\$0							
Design/Engineerin	g	\$0							
Land/ROW Acquisi	tion	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Mana	agement	\$0							
Equipment		\$0							
Furniture, Fixtures	, and Equipment	\$0							
Technology Hardw	are/Software	\$60,000					\$60,000		
Other Expenses		\$0							
TOTAL		\$60,000	Ş	\$0	\$0 \$	60 \$	0 \$60,000	\$(\$0
\$n									EV2020

	Сар	Project Request	
Project Title:	Town Building Switching	Fiscal Year: 2024	

Project Description and Considerations				
Switching is an important aspect of the communciations between the multiple building supported by the ITC. This request is for upgrading and replacing switching between the Town Hall, Public Services Adminstration Building, and the Center at The Heights. Because of the increased data transfer speeds between the buildings, currently at 10GB, it is important to maintain the current level of switching. Many of the current switches within the these buildings are two to three years old so the replacement of them wil be important in the years out. There is annual licensing and maintenance for this product which is currently maintained in the ITC budget. Those dollars would be used for annual licensing and maintenance of the updated hardware.				

Project Title: Town Internet Control, Analysis, and Reporting Classification: Technology Status: Department: Supports: Supports: Status: Department: Supports: General Government More than five (5) years but less than eight (8) year
Department: Partners: Finance Supports: Useful Life: Supports: Useful Life: Wore than five (5) years but less than eight (8) years 1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included is this request? No 2. Are there recommendations or costs identified by other departments which are NOT factored into the request? No 3. Does this project require any permitting by any Town or State agency? No 4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request? Not Applicable 5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request? Not Applicable 6. If funded, will the operating budget need to be increased to cover operating expenses? No 9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted? No 10. If the project is NOT funded, will current Town revenue be reduced? No 11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset? 12. Is this a project for which an initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)? No 13. Is this a request in response to a documented public health or safety condition? No 15. Is this a request to improve or make repairs to extend the useful life of a building? No 16. Is this a request to repair or otherwise improve public property which is NOT already budgeted at the location of its use? No 17. Is this a request to repair or otherwise improve public property which is NOT already in infrastructure? No 18. Will any other department be required to provide assistance in order to complete the project? No 19. If funded, will this project increase the operating expenses for any other department? No 19. If funded, will this project increase the operating expenses for any other
Partners: Parameters Param
Response 1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included is this request? 2. Are there recommendations or costs identified by other departments which are NOT factored into the request? 3. Does this project require any permitting by any Town or State agency? 4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request? 5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request? 6. If funded, will additional permanent staff be required? 7. If funded, will the operating budget need to be increased to cover operating expenses? 8. No 8. If funded, will this project lower the requesting Peapartment's operating costs? 9. If funded, will this project lower the requesting Peapartment's operating costs? 9. If funded, will this project on annual licensing required that the Town will need to pay in order to use the asset? 10. If the project is NOT funded, will current Town revenue be reduced? 11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset? 12. Is this a project for which an initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)? No 13. Is this a request to improve or make repairs to extend the useful life of a building? 14. Is this a request to improve or make repairs to extend the useful life of a building? 15. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use? 16. Is this a request to repair or otherwise improve public property which is NOT a building or infrastructure? 17. In this or request to repair or otherwise improve public property which is NOT a building or infrastructure? 18. Will any other department be required to provide assistance in order to complete the project? 18. W
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Project Cost: \$75,000 How was the Project Cost Determined: In-House Estimate Budget Impact: Negligible impact on the annual operating expenses less than \$5,000 Project Budget Elements Project Budget 2020 2021 2022 2023 2024 2025 2026 Planning/Feasibility \$0 Design/Engineering \$0
Budget Impact: Negligible impact on the annual operating expenses less than \$5,000 Project Budget Elements Project Budget 2020 2021 2022 2023 2024 2025 2026 Planning/Feasibility \$0 Design/Engineering \$0
Project Budget ElementsProject Budget2020202120222023202420252026Planning/Feasibility\$0Design/Engineering\$0
Planning/Feasibility \$0 Design/Engineering \$0
Design/Engineering \$0
Site Preparation \$0
Construction \$0
Construction Management \$0
Equipment \$0
Furniture, Fixtures, and Equipment \$0
Technology Hardware/Software \$75,000 \$75,000
Other Expenses \$0
TOTAL \$75,000 \$0 \$0 \$75,000 \$0 \$0 \$0 \$0

	Capital Project Request		
Project Title:	Town Internet Control, Analysis, and Reporting	Fiscal Year:	2022

Project Description and Considerations

Currently the Town is using a combination of hardware and software to manage and maintain the basic flow of access to the internet. The request would upgrade firewalls and software to help ITC better control, analyze, and report on the traffic that currently takes place. There is an increased interest and demand for cyber security across all levels of industry and how to better defend from unwanted attacks and this request would assist the ITC in maintaining and increasing the level of security from where the Town is currently.

				Capital	Project Request					
Project Title: To	own Wide Vide	eo Projection and Sm	nart TV Repla	cement				Fiscal Year:	202	22
urpose: A	cquisition	C	assification:	Technology		Status:	New Request			
epartment: Fi	nance	•				Supports:	General Governm	ent		
artners:						Useful Life:	More than five (5) years but less th	ıan eight (8) yea	ars
_				<u>Parameters</u>	<u>s</u>				Respo	onse
. Are there any costs	to bid, design, c	construct, purchase, ins	tall, implemen	t, or otherwise co	mplete the project wh	ich are NOT includ	ed is this request?		No	
. Are there recomme	endations or cost	ts identified by other d	epartments wh	ich are NOT facto	red into the request?				No	
. Does this project re	equire any permi	tting by any Town or S	tate agency?						No	
. If this request is for	r Technology, ha	s the Department comi	municated with	ITC, and does ITC	support the request?				Not Applic	able
. If this request is for	r Building Improv	rements, has the Depar	tment commu	nicated with the B	uilding Maintenance (BM) division, and	does BM support the	request?	Not Applic	able
. If funded, will addi							Total New FTE's:		No	
. If funded, will the o	perating budget	need to be increased t	o cover operat	ing expenses?				-	No	
		e requesting Departmen							No	
		ngoing assistance from			e to the Town which is	NOT already bud	geted?		No	
0. If the project is N (OT funded, will c	urrent Town revenue b	e reduced?						Not Applic	able
1. Is specialized trair	ning or annual lic	ensing required that th	e Town will ne	ed to pay in order	to use the asset?				No	
2. Is this a project fo	r which an Initia	l Eligibility Project Appl	ication can be	filed with the Com	munity Preservation (Committee (CPC)?			No	
3. Is this a request ir	response to a C	Court, Federal, or State	order?						No	
4. Is this a request ir	response to a d	ocumented public heal	th or safety co	ndition?					No	
5. Is this a request to	o improve or ma	ke repairs to extend the	e useful life of a	a building?					No	
6. Is this a request to	purchase appai	ratus/equipment that is	s intended to b	e permanently ins	talled at the location o	of its use?			No	
7. Is this a request to	repair or other	wise improve public pro	operty which is	NOT a building or	· infrastructure?				No	
8. Will any other dep	partment be requ	uired to provide assista	nce in order to	complete the pro	ject?				No	
9. If funded, will this	project increase	the operating expense	e for any other	department?					No	
roject Cost: \$:	145,000	How was the Project	Cost Determine	ed:	In-House Estimat	е				
udget Impact: N	egligible impact	on the annual operatin	g expenses less	than \$5,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025	202	26
anning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisitio	n	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Manage	ment	\$0								
quipment		\$0								
urniture, Fixtures, ar	nd Equipment	\$0								
echnology Hardware	e/Software	\$145,000			\$50,00	0 \$40,0	000 \$55,00	0		
ther Expenses		\$0								

Capital Project Request Project Title: Town Wide Video Projection and Smart TV Replacement Fiscal Year: 2022

Project Description and Considerations

FY22 \$50,000 Town Wide Video Projection and Smart TV Replacement Building Location and Device Type

- 1) Town Hall Select Board Room
- a. Projector
- 2) Town Hall Great Plain Room
- a. Projector
- 3) Town Hall Highland Room
 - a. Projector

FY23 \$40,000 Town Wide Video Projection and Smart TV Replacement Building Location and Device Type

- 1) Center at The Heights Multi-purpose Room 1st Floor
- a. Projector
- 2) Center at The Heights Computer Lab
- a. Smart TV
- 3) Center at The Heights Multi-purpose Room 2nd Floor (1 of 2)
- a. Projector
- 4) Center at The Heights Multi-purpose Room 2nd Floor (2 of 2)
- a. Projector

FY24 \$55,000 Town Wide Video Projection and Smart TV Replacement Building Location and Device Type

- 1) Public Services Administration Building Charles River Room
- a. Projector
- 2) Rosemary Recreation Complex Multi-pupose Room
 - a. Projector
- 3) Rosemary Recreation Complex Health Department Conference Room
- a. Smart TV
- 4) Rosemary Recreation Complex Park and Recreation Conference Room
 - a. Smart TV

Across the Town there are video projectors and Smart TVs that have been included in the base construction of the building. This request is to replace those devices over a period of several years starting in FY22. Many of the devices are over 5 years old andhave issues with resolution compatibility with attached devices. Also a review of certain rooms, for example the Select Board Room, will be made at the time tiOdetermine if there is a better way to display videos and imageryrwithin the space. Based on cost comparison at the time of replacement some projectors may be replaced with Smart TVs based on the need of the departments that would make use of them.

				Capital F	Project Request				
Project Title:	Wireless Hardy	vare Infrastucture U	pgrade					Fiscal Year:	2024
Purpose:	Acquisition	(Classification:	Technology		Status:	New Request		
Department:	Finance					Supports:	General Governme	nt	
Partners:						Useful Life:	More than five (5)	years but less than	eight (8) years
				<u>Parameters</u>					<u>Response</u>
		construct, purchase, in				ich are NOT include	ed is this request?		No
		sts identified by other o		ich are NOT factor	ed into the request?				No
3. Does this project	t require any pern	nitting by any Town or S	State agency?						No
4. If this request is	for Technology, h	as the Department com	municated with	ITC, and does ITC	support the request?	ı			Not Applicable
5. If this request is	for Building Impro	ovements, has the Depa	rtment commu	nicated with the Bu	uilding Maintenance (BM) division, and o	loes BM support the r	equest?	Not Applicable
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:		No
7. If funded, will th	e operating budge	et need to be increased	to cover operat	ing expenses?					No
		ne requesting Departme							No
		ongoing assistance fror		additional expense	to the Town which i	s NOT already budg	eted?		No
		current Town revenue							Not Applicable
11. Is specialized t	raining or annual l	icensing required that t	he Town will ne	ed to pay in order	to use the asset?				Yes
12. Is this a project	t for which an Initi	al Eligibility Project App	lication can be	filed with the Com	munity Preservation (Committee (CPC)?			No
13. Is this a reques	t in response to a	Court, Federal, or State	order?						No
14. Is this a reques	t in response to a	documented public hea	alth or safety co	ndition?					No
	•	ake repairs to extend th							No
		aratus/equipment that				of its use?			No
		rwise improve public p							No
18. Will any other	department be re	quired to provide assist	ance in order to	complete the proj	ect?				No
	his project increas	se the operating expens	se for any other	department?					No
Project Cost:	\$175,000	How was the Project			In-House Estimat	:e			
Budget Impact:		t on the annual operation							
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibilit		\$0							
Design/Engineerin	_	\$0							
Land/ROW Acquis	tion	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Mana	agement	\$0							
Equipment		\$0							
Furniture, Fixtures		\$0							
Technology Hardw	are/Software	\$175,000					\$175,000		
Other Expenses		\$0							
TOTAL		\$175,000	<u> </u>	50	\$0 \$	0 \$	0 \$175,000	\$0	<u> </u>
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	Capital Project Request		
Project Title:	Wireless Hardware Infrastucture Upgrade	Fiscal Year:	2024

Project Description and Considerations

FY24 \$175,000 Wireless Hardware Infrastucture Upgrade

This request is for the replacement and upgrade of the wireless access points (WAPs) installed across multiple buildings. Currently the Town has wireless access available in multiple buildings throughout Town. These buildings include Town Hall, Public Services Administration Building, The Center at The Heights, Publics Safety (NPD/Station 1), the Rosemary Recreation Complex, and soon to include the Memorial Field House. Part of the hardware included with this upgrade is a controller that is designed to manage the WAPs. The inclusion of the wireless infrastructure and hardware was part of the original construction and there was no previous capital request for any replacement or upgrade. Moving into the future the older WAP's will not be compatible with any updated controller software making it necessary to upgrade the WAPs. Annual licensing for the wirleess controller and WAPs are currently part of the ITC operating budget.. There are currently ITC operating budget dollars used for licensing for the both hardware and software maintenance and support. Those dollars would be used for annual licensing and maintenance of the updated hardware.

				Capital P	Project Request				
Project Title:	Town Building	Security and Traffic	Cameras Repla	cement				Fiscal Year:	2024
Purpose:	Acquisition		Classification:	Technology		Status:	New Request		
Department:	Finance					Supports:	General Governme	nt	
Partners:						Useful Life:	More than five (5)	years but less than	eight (8) years
				<u>Parameters</u>					<u>Response</u>
1. Are there any co	sts to bid, design,	construct, purchase, i	nstall, implement	, or otherwise com	nplete the project w	hich are NOT inc	luded is this request?		No
		sts identified by other		ich are NOT factor	ed into the request?				No
3. Does this projec	t require any perm	itting by any Town or	State agency?						No
4. If this request is	for Technology, ha	as the Department cor	nmunicated with	ITC, and does ITC	support the request	?			Not Applicable
5. If this request is	for Building Impro	vements, has the Dep	artment commur	nicated with the Bu	uilding Maintenance	(BM) division, a	nd does BM support the r	equest?	Not Applicable
6. If funded, will ac	dditional permaner	nt staff be required?					Total New FTE's:		No
7. If funded, will th	e operating budge	t need to be increased	to cover operat	ing expenses?					No
		e requesting Departm							No
9. If funded, will th	is project require	ongoing assistance fro	m vendors at an	additional expense	to the Town which	is NOT already b	oudgeted?		No
10. If the project is	NOT funded, will	current Town revenue	be reduced?						Not Applicable
11. Is specialized to	raining or annual li	censing required that	the Town will nee	ed to pay in order t	to use the asset?				No
12. Is this a project	for which an Initia	al Eligibility Project Ap	plication can be f	iled with the Comr	munity Preservation	Committee (CPC	c)?		No
13. Is this a reques	t in response to a	Court, Federal, or State	e order?						No
14. Is this a reques	t in response to a	documented public he	alth or safety cor	ndition?					No
15. Is this a reques	t to improve or ma	ake repairs to extend t	he useful life of a	building?					No
16. Is this a reques	t to purchase appa	aratus/equipment that	is intended to be	e permanently inst	alled at the location	of its use?			No
17. Is this a reques	t to repair or othe	rwise improve public p	roperty which is	NOT a building or	infrastructure?				No
18. Will any other	department be rec	quired to provide assis	tance in order to	complete the proj	ect?				No
19. If funded, will t	his project increas	e the operating expen	se for any other	department?					No
Project Cost:	\$300,000	How was the Project	t Cost Determine	ed:	In-House Estima	ite			
Budget Impact:	Negligible impact	on the annual operat	ng expenses less	than \$5,000					
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibilit	У	\$0							
Design/Engineering	g	\$0							
Land/ROW Acquisi	tion	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Mana	agement	\$0							
Equipment		\$0							
Furniture, Fixtures	, and Equipment	\$0							
Technology Hardw	are/Software	\$300,000					\$300,000		
Other Expenses		\$0							
TOTAL		\$300,000	\$	0	\$0	\$0	\$0 \$300,000	\$0	\$0
\$0									FY2020

	Capital Project Request		
Project Title:	Town Building Security and Traffic Cameras Replacement	Fiscal Year:	2024

Project Description and Considerations
FY24 \$300,000 Town Traffic and Security Cameras Replacement
This request is for the replacement and upgrade of traffic and security cameras. Traffic cameras are currently located at two intersections downtown, Great Plain at Chapel and Chestnut, Great Plain at Highland and Dedham. Security cameras are located across the Town at multiple buildings and locations. Each building with security cameras also maintains a Digital Video Recorder which are currently backed up to a storage unit in the Town Hall server room. The cameras at all of the buildings are high resolution cameras used for maintaining the security of the buildings and properties. This hardware also has a five year life cycle and in the future better resolution. Currently used at the traffic intersection are low resolution traffic control cameras. It is anticipated that in the future traffic control cameras will also be high resolution which will better help control traffic.

		Capi	tal Project Request					
Project Title:	Center At The Heights Computer	Lab Hardware / Software Re	placement			Fiscal Year:	- 2	2020
Purpose:	Acquisition	Classification: Technology	1	Status:	Same Request fro	m the Prior CIP		
Department:	Finance			Funding Source:	General Fund			
Partners:								
		<u>Parame</u>	<u>ters</u>				Re	sponse_
1. Are there any co	sts to bid, design, construct, purchase,	install, implement, or otherwise	e complete the project which	ch are NOT include	d is this request?		No	
2. Are there recom	mendations or costs identified by othe	r departments which are NOT f	actored into the request?				No	
3. Does the project	support activities to produce new rev	enue for the Town?					No	
4. Does this project	t require any permitting by any Town o	r State agency?					No	
5. If funded, will ad	lditional permanent staff be required?						No	
6. If funded, will th	e operating budget need to be increas	ed to cover operating expenses)				No	
7. If funded, will th	is project increase the operating expe	se for any other department?					No	
8. If funded, will th	is project lower the requesting Depart	ment's operating costs?					No	
9. If funded, will th	is project require ongoing assistance for	om vendors at an additional ex	pense to the Town which is	NOT already budge	eted?		No	
	NOT funded, will current Town revenu						No	
11. Is specialized tr	aining or annual licensing required tha	t the Town will need to pay in o	rder to use the asset?				No	
12. Is this a project	for which an Initial Eligibility Project A	pplication can be filed with the	Community Preservation Co	ommittee (CPC)?			No	
13. Is this a reques	t in response to a Court, Federal, or Sta	ite order?					No	
14. Is this a reques	t in response to a documented public l	nealth or safety condition?					No	
15. Is this a reques	t to improve or make repairs to extend	the useful life of a building?					No	
16. Is this a reques	t to purchase apparatus/equipment th	at is intended to be permanentl	y installed at the location o	f its use?			No	
17. Is this a reques	t to repair or otherwise improve public	property which is NOT a buildi	ng or infrastructure?				No	
18. Will any other of	department be required to provide ass	istance in order to complete the	project?				No	

Primary Reason for the Request: Scheduled replacement

How was the Estimated Project Cost Determined: In-House Estimate

Useful Life: More than five (5) years but less than eight (8) years

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's: 0

Project Budget Elements	Project Budget	2020	2021	2022	2023	2024
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$50,000	\$50,000				
Other Expenses	\$0					
TOTAL	\$50,000	\$50,000	\$0	\$0	\$0	\$0

Estimated Project Cost:

\$50,000

\$0

	Capital Project Request		
Project Title:	Center At The Heights Computer Lab Hardware / Software Replacement	Fiscal Year:	2020

Project Description and Considerations

FY 2020

The purpose of this request is to replace the hardware and upgrade software associated with the Center at The Heights (CATH) Computer Lab. This will include 20 desktops, 4 laptops, a server, switch, and firewall. Also being upgraded would be any software associated with the specific operation. Typically throughout other departments across the Town the Information Technology Center (ITC) looks at individual pieces of hardware and determines its need for replacement. However since this equipment and software was purchased and installed at the same time, as well as the nature of the use of the equipment, it will be better to keep the same make and models of hardware and software instead of mixing and matching. New models will be able to take advantage of upgraded operating systems and faster processers to better serve the users of the Computer Lab. If the funding does not occur there is currently not sufficient funding in the ITC budget to cover the cost of replacing the added pieces of hardware. Outside of this request for replacement the move of the Council on Aging to the CATH more than double the number of computers for that department. That in itself will draw more funds from the ITC over time making it harder to use currently budgeted dollars for the replacement of hardware and software in the CATH Computer Lab.

			Capital Projec	t Request			
Project Title:	GIS Technology Systems and Ap	olications Updates	S			Fiscal Year:	2023
Purpose:	Acquisition	Classification:	Technology	Status:	Revised Request	from the Prior CIP	
Department:	Finance			Funding Source:	Revolving Fund		
Partners:	DPW Engineering						
			<u>Parameters</u>				Response
1. Are there any co	sts to bid, design, construct, purchase	e, install, implement	, or otherwise complete	the project which are NOT include	d?		No
2. Are there recom	mendations or costs identified by oth	er departments whi	ich are NOT factored int	o the request?			No
3. Does the project	support activities to produce new re	venue for the Town	?				No
4. Does this project	t require any permitting by any Town	or State agency?					No
5. If funded, will ad	ditional permanent staff be required	?					No
6. If funded, will the	e operating budget need to be increa	sed to cover operat	ing expenses?				No
7. If funded, will th	is project increase the operating expe	ense for any other d	epartment?				No
8. If funded, will th	is project lower the requesting Depar	tment's operating c	osts?				No
9. If funded, will th	is project require ongoing assistance	from vendors at an	additional expense to th	ne Town which is NOT already budg	eted?		No
	NOT funded, will current Town rever						No
11. Is specialized tr	aining or annual licensing required th	at the Town will ne	ed to pay in order to use	e the asset?			No
12. Is this a project	for which an Initial Eligibility Project	Application can be f	iled with the Communit	y Preservation Committee (CPC)?			No
13. Is this a request	t in response to a Court, Federal, or S	tate order?					No
14. Is this a request	t in response to a documented public	health or safety cor	ndition?				No
15. Is this a request	t to improve or make repairs to exter	d the useful life of a	building?	*			No
16. Is this a request	t to purchase apparatus/equipment t	hat is intended to be	e permanently installed	at the location of its use?	•	•	No
17. Is this a request	t to repair or otherwise improve publ	ic property which is	NOT a building or infras	structure?			No
18. Will any other of	department be required to provide as	sistance in order to	complete the project?		<u> </u>	<u> </u>	No

Primary Reason for the Request: Operational efficiency

How was the Estimated Project Cost Determined: In-House Estimate

More than five (5) years but less than eight (8) years Useful Life:

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2023	2024	2025	2026	2027
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$100,000	\$100,000				
Other Expenses	\$0					
TOTAL	\$100,000	\$100,000	\$0	\$0	\$0	\$0

Estimated Project Cost:

\$100,000

Capital Project Request GIS Technology Systems and Applications Updates Fiscal Year: 2023

Project Description and Considerations

1) Imagery and Planimetric Data Updates:

Project Title:

The Imagery and Planimetric Data Updates (previously titled Geographic Information Systems Upgrade) project is a request for a flight to update aerial imagery and then use that aerial imagery to update the Town's planimetric data. The aerial imagery and planimetric data is used across Town departments but it is most used by Public Works Engineering using computer aided design (CAD) software and the Information Technology Center Geographic Information System (GIS) Administrator using GIS software (ESRI, Inc) in support of multiple Town and School Departments. CAD and GIS are systems that use hardware and software for storage, retrieval, mapping, analysis, design, and planning. The planimetric data is the electronic representation of above ground physical structures and features. These physical structures and features are then associated with layers in CAD and geospatial information and databases in GIS which then allows for the different departments to use the planimetric data for needs specific to each department. The updated planimetric data will be incorporated into the Town's web GIS as well as secure web GIS sites accessed by DPW Divisions for viewing and querying as well as the Engineering Division using the data for planning and design projects. Because Water & Sewer, Planning, Conservation and other Town and School Departments use or request services specific to the planimetric data it is important to have up to date data so these departments can plan, analyze and display with as accurate a representation of the physical structures and features. Licensing costs to use the data through specific software are currently paid through the operating budget. The use of new planimetrics and imagery will not directly cause any increase to these costs.

There was revision to this CIP in that the starting fiscal year was changed from 2022 to 2023. This CIP request is a recurring request with the most recent fulfillment of the request happening in Fiscal Year 2015. The initial phase of the Imagery and Planimetric Data Updates is to fly the Town and collect imagery which is then used to collect planimetric data. However due to a heavy snow fall during the winter of 2014 - 2015 that left substantial snow on the ground in the spring of 2015 the flight did not take place. The flight was rescheduled for the spring of 2016 but due to technical problems with the flight that took place in the spring of 2016 the imagery deliverables did not take place. The flight did take place in the spring 2017 and imagery deliverables were available in the Fall of 2017 with finalizing of resolution and data delivery happening in the late Winter into 2018. Imiagery is currently available on the Town's public web GIS, https://www.mapsonline.net/needhamma/index.html. Currently there is in development an RFP for the development of the Planimetric data with plans of delivery in the Spring of 2019. Because of the initial delay in the flight and then the issues with the subsiquent flight it was decided to push the next flight for imagery and collection of planimetric data out one year which is reflected in the fiscal year request.

				Capital F	Project Request					
Project Title: H	igh Availability	Firewalls						Fiscal Year:		2022
urpose: A	cquisition	Cla	ssification:	Technology		Status:	New Request			
epartment: Fi	nance	•				Supports:	General Govern	ment		
artners:						Useful Life:	More than five	(5) years but less t	han eight (8) years
-				<u>Parameters</u>					<u>[</u>	Response
1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included is this request?										
2. Are there recommendations or costs identified by other departments which are NOT factored into the request?										
3. Does this project require any permitting by any Town or State agency?									No	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									Not A	Applicable
5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request?								Not A	Applicable	
. If funded, will addi	tional permanent	staff be required?					Total New FTE's	s:	No	
. If funded, will the	perating budget	need to be increased to	cover operatir	ng expenses?			•	•	No	
. If funded, will this	project lower the	requesting Department	t's operating co	sts?					No	
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?								No		
10. If the project is NOT funded, will current Town revenue be reduced?							Not A	Applicable		
1. Is specialized train	ning or annual lice	ensing required that the	Town will need	d to pay in order	to use the asset?				Yes	
2. Is this a project fo	or which an Initial	Eligibility Project Applic	cation can be fil	led with the Com	munity Preservation Co	mmittee (CPC)?			No	
13. Is this a request in response to a Court, Federal, or State order?							No			
14. Is this a request in response to a documented public health or safety condition?							No			
15. Is this a request to improve or make repairs to extend the useful life of a building?								No		
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?								No		
7. Is this a request t	o repair or otherw	vise improve public pro	perty which is N	NOT a building or	infrastructure?				No	
18. Will any other department be required to provide assistance in order to complete the project?							No			
9. If funded, will this	project increase	the operating expense	for any other d	epartment?					No	
roject Cost: \$	75,000	How was the Project C	Cost Determined	d:	In-House Estimate					
udget Impact: N	egligible impact o	n the annual operating	expenses less t	than \$5,000				_		
Project Budge	t Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisition	n	\$0								
ite Preparation		\$0								
onstruction		\$0								
Construction Management		\$0								
quipment		\$0								
urniture, Fixtures, a	nd Equipment	\$0								
echnology Hardwar	e/Software	\$75,000			\$75,000					
Other Expenses		\$0								
		\$75,000	\$0		\$0 \$75,000		\$0	\$0	\$0	

		Capital Project Request		
Project Title:	High Availability Firewalls		Fiscal Year:	2022

Project Description and Considerations

FY22 \$75.000 High Availibity	Firewalls
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Currently the Town uses multiple firewalls to controll traffic and access to different networks managed by the ITC. The meaning of high availability is that there are multiple firewalls per network in case of a failure of the single piece of hardware. These firewalls are used to separate out the current water SCADA network, the downtown traffic intersection network, and the municipal working network. These firewalls also allow the ITC to give external access to employees and consultants who are working away from Town halll and need to work within any of these specififc networks. The Town has migrated to a 10GB network which increases the cost of these pieces of hardware. All of the current hardware is close to five years old and should be part of the five year replacement cycle. This request will have them closer to eight years old when they are replaced. There is annual licensing and maintenance for this product which is currently maintained in the ITC budget. Those dollars would be used for annual licensing and maintenance of the updated hardware.

Canital Project Request

			Capital Project Request				
Project Title:	Non-Public Safety Data Center Se	rvers and Storag	e Units			Fiscal Year:	2023
Purpose:	Acquisition	Classification:	Technology	Status:	Revised Request	from the Prior CIP	
Department:	Finance			Funding Source:	General Fund		
Partners:							
			<u>Parameters</u>				<u>Response</u>
1. Are there any co	sts to bid, design, construct, purchase,	install, implement	, or otherwise complete the project whi	ch are NOT include	d?		No
2. Are there recom	mendations or costs identified by othe	r departments whi	ch are NOT factored into the request?				No
3. Does the project	support activities to produce new rev	enue for the Town?	?				No
4. Does this project	t require any permitting by any Town o	r State agency?					No
5. If funded, will ac	Iditional permanent staff be required?						No
6. If funded, will th	e operating budget need to be increase	ed to cover operati	ng expenses?				No
7. If funded, will th	is project increase the operating exper	se for any other de	epartment?				No
8. If funded, will th	is project lower the requesting Departi	ment's operating co	osts?				No
			additional expense to the Town which is	NOT already budge	eted?		No
10. If the project is	NOT funded, will current Town revenu	e be reduced?					No
<u> </u>	aining or annual licensing required tha		• •				Yes
12. Is this a project	for which an Initial Eligibility Project A	pplication can be fi	led with the Community Preservation C	ommittee (CPC)?			No
13. Is this a reques	t in response to a Court, Federal, or Sta	te order?					No
14. Is this a reques	t in response to a documented public h	ealth or safety con	dition?				No
15. Is this a request to improve or make repairs to extend the useful life of a building?							No
16. Is this a reques	16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?						
17. Is this a reques	t to repair or otherwise improve public	property which is	NOT a building or infrastructure?				No
18. Will any other of	department be required to provide assi	stance in order to	complete the project?				No

Primary Reason for the Request:

Obsolete/non-functioning

How was the Estimated Project Cost Determined: Useful Life:

In-House Estimate

More than five (5) years but less than eight (8) years

Budget Impact:

Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2023	2024	2025	2026	2027
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$325,000	\$145,000	\$180,000			
Technology Hardware/Software	\$0					
Other Expenses	\$0					
TOTAL	\$325,000	\$145,000	\$180,000	\$0	\$0	\$0

Estimated Project Cost:

\$325,000

\$0

	Capital Project Request		
Project Title:	Non-Public Safety Data Center Servers and Storage Units	Fiscal Year:	2023

Project Description and Considerations

FY23 \$145,000.00 Data Center 1 and Data Center 3 Hardware Replacements FY24 \$180,000.00 Data Center 1 and Data Center 2 Hardware Replacements

This project is for the replacement of hardware within the three Town of Needham data centers. Phase I of the project, which will take place in the fiscal year 20223), will be the replacement of servers, storage units, and switches. Phase II of the project will also be the replacement of servers, storage units, and switches. Data Center 1 is housed at the Town Hall, Data 2 is housed at the Public Services Administration Building, and Data Center 3 is housed at The Center at The Heights. Data Center 1 is the primary data center where the Town Departments access files and programs, the internet, and network and internet security takes place. The servers at Town Hall are physical servers however three of them maintain and support upwards of 80 virtual servers with corresponding data maintained on the storage units. The others are for specific software functions. The servers, storage unit, and switches at the Public Services Administration Building act as fail over in case of the Town Hall network and infrastructure going offline. The server and storage at The Center at The Heights is where backup data is housed and from there certain segments of the data are migrated off site using a Code42 business account.

Previously the Information Technology Center (ITC) has reviewed the data center design as described above to determine if shifting to a hyper-converged environment would be financially viable moving forward based on the fiscal year dollar requests in previous years. After spe aking to several vendors it was determined that the cost of this architecture was too costly for use by the Town. The ITC is now looking into reducing the number of data centers from the current 3 to 2 during the next refresh of hardware (FY23). If an update this year to a third CIP, Public Safety Data Center Servers and Storage Units, for FY21 is accepted then the data centers at the Public Services Administration Building and the Center at The Heights would not be used in their current configuration. The primary data centers would continue to be the Town Hall and then the Public Safety sever room would act as the second data center. The ITC will be investigating an offsite option for cloud backup to support business continuity and disaster recover y. The goal is to find a solution that minimizes the amount of technology hardware needed as well as building space which in the long run will lessen the financial burden on ITC and any future buildings where ITC maintains and supports technology. ITC uses a five year replacement model for infrastructure hard ware.

The importance of this project is to maintain hardware at a level that will support the needs of the Town Departments as well as either continuing or changing the model developed for Business Continuity. As equipment gets older it becomes harder and harder to maintain the same level of quality and performance when initially installed directly effecting the day to day operation of the Town. There are currently ITC operating budget dollars used for licensing for the both hardware and software maintenance and support. Those dollars would be used for annual licensing and maintenance of the updated hardware.

Capital Project Request							
Project Title:	Public Safety Data Center Servers	and Storage Uni	ts			Fiscal Year:	2021
Purpose:	Acquisition	Classification:	Technology	Status:	Revised Request	from the Prior CIP	
Department:	Finance			Funding Source:	General Fund		
Partners:	Public Safety						
			<u>Parameters</u>				<u>Response</u>
1. Are there any co	sts to bid, design, construct, purchase,	install, implement,	or otherwise complete the project which	ch are NOT include	d?		No
2. Are there recom	mendations or costs identified by other	departments which	ch are NOT factored into the request?				No
3. Does the project	support activities to produce new reve	nue for the Town?					No
4. Does this project	require any permitting by any Town o	r State agency?					No
5. If funded, will ad	ditional permanent staff be required?						No
6. If funded, will the	e operating budget need to be increase	d to cover operation	ng expenses?				No
7. If funded, will thi	is project increase the operating expen	se for any other de	partment?				No
8. If funded, will thi	is project lower the requesting Departn	nent's operating co	sts?				No
9. If funded, will thi	is project require ongoing assistance fro	om vendors at an a	dditional expense to the Town which is	NOT already budge	eted?		No
	NOT funded, will current Town revenu						No
11. Is specialized tr	aining or annual licensing required that	the Town will nee	d to pay in order to use the asset?				Yes
12. Is this a project	for which an Initial Eligibility Project Ap	pplication can be fi	ed with the Community Preservation Co	ommittee (CPC)?			No
13. Is this a request	t in response to a Court, Federal, or Sta	te order?					No
14. Is this a request	t in response to a documented public h	ealth or safety con	dition?				No
15. Is this a request	t to improve or make repairs to extend	the useful life of a	building?				No
16. Is this a request	16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?						No
17. Is this a request	t to repair or otherwise improve public	property which is I	NOT a building or infrastructure?				No
18. Will any other of	department be required to provide assi	stance in order to o	complete the project?	·	·	·	No

Primary Reason for the Request: Obsolete/non-functioning

How was the Estimated Project Cost Determined: In-House Estimate Estimated Project Cost: \$200,000

Useful Life: More than five (5) years but less than eight (8) years

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2021	2022	2023	2024	2025
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$200,000	\$200,000				
Other Expenses	\$0					
TOTAL	\$200,000	\$200,000	\$0	\$0	\$0	\$0

\$0

Capital Project Request Project Title: Public Safety Data Center Servers and Storage Units Fiscal Year: 2021

Project Description and Considerations

FY21 \$200,000.00 Public Safety Computer Data Center Servers and Storage Units

The cost adjustment to the requests, from \$60,000 to \$200,000, is part of a plan by the ITC to maintain and upgrade current data centers. Servers, storage, and switches would be purchased to mimic the current infrastructure design so that the hardware for FY 2024 would not need to be purchased. This would create a second data center in the Public Safety Building which would replace the data center at the Public Services Administration Building and the Center at The Heights. The five year cycle of replacement used by the ITC would push the replacement date for this hardware out to FY 2026. A portion of this request would be a hardware refresh of Public Safety CAD hardware installed during the FY15 upgrade of the Public Safety CAD software. This is the \$60,000 portion as described in last years request. The software piece of the Public Safety CAD project was funded by a capital request while the hardware piece of the Public Safety CAD project was funded using State 911 Grant Funds. Because of the uncertainly of the funding from the State it is important to include this hardware as part of the infrastructure upgrade and redesign. Annual licensing for the Public Safety CAD as well as hardware support and licensing are currently part of the ITC operating budget as is other software specific to operating systems, switching, and security.

				Capital Pro	ect Request					
Project Title:	Public Safety De	sktops, Printers, and	d Peripherals					Fiscal Year:		2020
Purpose:	Acquisition	С	assification:	Technology		Status:	New Request			
Department:	inance	•	•			Supports:	General Govern	ment		
Partners:	Police Department	t Fire Departmnt PPBC				Useful Life:	More than five (5) years but less t	han eight ((8) years
				<u>Parameters</u>		•				Response
1. Are there any cost	ts to bid, design, c	onstruct, purchase, ins	tall, implement, o	r otherwise comple	ete the project whic	h are NOT includ	led is this request?		No	
2. Are there recomm	nendations or cost	s identified by other d	epartments which	are NOT factored	nto the request?				No	
3. Does this project i	require any permi	tting by any Town or S	tate agency?						No	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?								Not A	Applicable	
5. If this request is fo	or Building Improv	rements, has the Depar	tment communica	ted with the Build	ing Maintenance (B	M) division, and	does BM support th	e request?		Applicable
6. If funded, will add	litional permanen	t staff be required?					Total New FTE's	:	No	
7. If funded, will the	operating budget	need to be increased	o cover operating	expenses?				•	No	
8. If funded, will this	project lower the	requesting Departme	nt's operating cost	s?					No	
9. If funded, will this	project require o	ngoing assistance from	vendors at an add	ditional expense to	the Town which is	NOT already bud	geted?		No	
10. If the project is N	NOT funded, will c	urrent Town revenue b	e reduced?						Not A	Applicable
11. Is specialized tra	ining or annual lic	ensing required that th	e Town will need t	to pay in order to ι	ise the asset?				Yes	
12. Is this a project f	or which an Initia	Eligibility Project Appl	ication can be filed	with the Commu	nity Preservation Co	mmittee (CPC)?			No	
13. Is this a request i	in response to a C	ourt, Federal, or State	order?						No	
14. Is this a request i	in response to a d	ocumented public hea	th or safety condit	ion?					No	
15. Is this a request	to improve or mal	ke repairs to extend th	e useful life of a bu	ıilding?					No	
16. Is this a request	to purchase appar	atus/equipment that i	s intended to be pe	ermanently installe	d at the location of	its use?			No	
17. Is this a request	to repair or other	wise improve public pr	operty which is NC	T a building or infi	astructure?				No	
18. Will any other de	epartment be requ	uired to provide assista	nce in order to co	mplete the project	?				No	
19. If funded, will th	is project increase	the operating expense	e for any other dep	artment?					No	
,	\$200,000	How was the Project			In-House Estimate					
Budget Impact:	Negligible impact	on the annual operatin	g expenses less tha	an \$5,000						
Project Budge	et Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$0								
Land/ROW Acquisition	on	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Manag	gement	\$0								
Equipment		\$0								
Furniture, Fixtures, and Equipment \$0										
Technology Hardwai	re/Software	\$200,000	\$200,000							
Other Expenses		\$0								
TOTAL		\$200,000	\$200,000	\$0	\$0	<u> </u>	\$0	\$0	\$0	\$
\$0										FY202

		Capital Project Request		
Project Title:	Public Safety Desktops, Printers, and Peripherals		Fiscal Year:	2020

Project Description and Considerations
This request is to fill those locations within the new public safety building where theer is currently any technology hardware. There is an estimated ninety (90) desktops and laptops that will need to be added to the ITC inventory. The majorty of this hardware is located on the Fire side of Public Safety where the re are few if any devices available for the offices. Often time s offices of both Police and Fire are sharing and waiting for others to finish their work. There are no available desktops or laptops for officers to use for online training or meetings. Throughout each of the Public Safety buildings offices will be outfitted with this hardware. This request also includes purchasing of printers because with the larger buildings it becomes more difficult to centralize printing. The different administrative offices will have the ability to print, copy, and scan however currently areas like dispatch there is shared printing with officers coming off the road. The new police dispatch area will be separate and more secure than present and the officers will be entering the building from a much further distance. Other peripherals could include additional monitors, keyboards, mice, or other devices to help with conducting day to day office work.

			Capital Project	Request				
Project Title:	Public Safety Mobile Devices	·					Fiscal Year:	2020
Purpose:	Acquisition	Classification:	Technology		Status:	Revised Request	from the Prior CIP	
Department:	Finance				Funding Source:	General Fund		
Partners:	Public Safety							
			<u>Parameters</u>					<u>Response</u>
1. Are there any co	osts to bid, design, construct, purchase	e, install, implement	, or otherwise complete	the project whic	h are NOT include	d?		No
2. Are there recon	nmendations or costs identified by oth	er departments wh	ich are NOT factored into	the request?				No
3. Does the projec	t support activities to produce new re	venue for the Town	?					No
4. Does this projec	ct require any permitting by any Town	or State agency?						No
5. If funded, will a	dditional permanent staff be required	?						No
6. If funded, will th	ne operating budget need to be increa	sed to cover operat	ing expenses?					No
7. If funded, will th	nis project increase the operating expe	ense for any other d	epartment?					No
8. If funded, will th	nis project lower the requesting Depar	tment's operating c	osts?					No
9. If funded, will th	nis project require ongoing assistance	from vendors at an	additional expense to the	e Town which is I	NOT already budge	eted?		No
10. If the project is	s NOT funded, will current Town rever	nue be reduced?						No
11. Is specialized t	raining or annual licensing required th	at the Town will ne	ed to pay in order to use	the asset?				Yes
12. Is this a projec	t for which an Initial Eligibility Project	Application can be f	iled with the Community	Preservation Co	mmittee (CPC)?			No
13. Is this a reques	st in response to a Court, Federal, or St	tate order?						No
14. Is this a reques	st in response to a documented public	health or safety cor	ndition?					No
15. Is this a reques	st to improve or make repairs to exten	d the useful life of a	building?					No
16. Is this a reques	st to purchase apparatus/equipment t	hat is intended to be	e permanently installed a	at the location of	its use?			No
17. Is this a reques	st to repair or otherwise improve publi	ic property which is	NOT a building or infrast	tructure?				No
18. Will any other	department be required to provide as	sistance in order to	complete the project?			·		No

Primary Reason for the Request: Scheduled replacement

How was the Estimated Project Cost Determined: In-House Estimate Estimated Project Cost: \$135,000

Useful Life: More than five (5) years but less than eight (8) years

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2020	2021	2022	2023	2024
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$135,000	\$35,000		\$50,000	\$50,000	
Other Expenses	\$0					
TOTAL	\$135,000	\$35,000	\$0	\$50,000	\$50,000	\$(

\$0

	Capital Project Request		
Project Title:	Public Safety Mobile Devices	Fiscal Year:	2020
	Project Description and Consideration	ns	-

FY20 \$35,000 Public Safety Mobile Devices FY22 \$50,000 Public Safety Mobile Device Fy23 \$50,000 Public Safety Mobile Device

This project is for the replacement of laptops and tablets that are used in the Needham Police and Fire Department Vehicles. The hardware is used to access multiple applications during the daily operations of either an individual or vehicle. The hardware communicates with the Public Safety CAD software as well as State and Federal databases. The devices themselves are hardened military specification hardware manufactured for above normal use in more intensive environments than normal off the shelf hardware. The current hardware is a mix a Panasonic ToughBooks and ToughTablets. In the past the hardware was funded using State 911 Grant Funds. Because of the uncertainly of the funding from the State it is important to place this within the capital request. There are currently ITC operating budget dollars used for licensing for both hardware and software maintenance and support.

The FY20 request for \$35,000 is a continuance from the previous fiscal year when \$35,000 was also requested. The total for Public Safety Mobile Device replacement is \$70,000 for both FY19 and FY20. The \$50,000 seen in FY22 and FY23 represent the replacement of the mobile devices purchased starting in FY19. Typically a five year time frame for replacement is used by the ITC but it has been observed over the past several years that the mobile devices used in the field have a much shorter life span. Even though the hardware purchased is designed for more intense environments than normal the day to day usage by the officers in their vehicle is proving difficult to keep and maintain over a five year lifespan. The reason for the \$15,000 dollar increase is primarily due to the need to have extra hardware on hand for replacement when a piece of hardware needs to be removed from a Public Safety vehicle. Each vehicle is a rolling office and the officers need to be able to access information through this hardware twenty-four hours a day, seven days a week. There are currently ITC operating budget dollars used for licensing of the both hardware and software maintenance and support. Those dollars would be used for annual licensing and maintenance of the updated hardware.

			Capital Projec	t Request				
Project Title:	Public Works Mobile Devices						Fiscal Year:	2023
Purpose:	Acquisition	Classification:	Technology		Status:	New Request		
Department:	Finance				Funding Source:	General Fund		
Partners:	Public Safety							
			<u>Parameters</u>					<u>Response</u>
1. Are there any co	osts to bid, design, construct, purchase,	install, implement,	or otherwise complet	e the project which	ch are NOT include	d?		No
2. Are there recom	mendations or costs identified by othe	r departments whi	ch are NOT factored in	to the request?				No
3. Does the project	t support activities to produce new reve	enue for the Town?	1					No
4. Does this project	t require any permitting by any Town o	r State agency?						No
5. If funded, will a	dditional permanent staff be required?							No
6. If funded, will th	e operating budget need to be increase	ed to cover operati	ng expenses?					No
7. If funded, will th	is project increase the operating expen	se for any other de	partment?					No
8. If funded, will th	is project lower the requesting Departr	nent's operating co	osts?					No
9. If funded, will th	is project require ongoing assistance from	om vendors at an a	idditional expense to t	he Town which is	NOT already budge	eted?		No
	NOT funded, will current Town revenu							No
11. Is specialized t	raining or annual licensing required that	t the Town will nee	d to pay in order to us	e the asset?				Yes
12. Is this a project	t for which an Initial Eligibility Project Ap	oplication can be fi	led with the Communi	ty Preservation Co	ommittee (CPC)?			No
13. Is this a reques	t in response to a Court, Federal, or Sta	te order?						No
14. Is this a reques	t in response to a documented public h	ealth or safety con	dition?					No
15. Is this a request to improve or make repairs to extend the useful life of a building?							No	
16. Is this a reques	t to purchase apparatus/equipment tha	at is intended to be	permanently installed	at the location o	f its use?	·		No
17. Is this a reques	t to repair or otherwise improve public	property which is	NOT a building or infra	structure?				No
18. Will any other	department be required to provide assi	stance in order to	complete the project?		_	_		No

Primary Reason for the Request: Scheduled replacement

How was the Estimated Project Cost Determined: In-House Estimate Estimated Project Cost: \$50,000

Useful Life: More than five (5) years but less than eight (8) years

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2023	2024	2025	2026	2027
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$50,000	\$50,000				
Other Expenses	\$0					
TOTAL	\$50,000	\$50,000	\$0	\$0	\$0	\$0

\$0

		Capital Project Request		
Project Title:	Public Works Mobile Devices		Fiscal Year:	2023
-		Project Description and Considerations		

FY23 \$50,000 Public Works Mobile Device

This project is for the replacement of laptops and tablets that are used by the Department of Public Works. The hardware is used to access multiple applications during the daily operations of either an individual or vehicle. The hardware communicates with multiple applications depending on what division within Public Works is using the equipment. The devices themselves are a mixture of of the shelf devices and hardened military specification hardware manufactured for above normal use in more intensive environments. The current hardware is a mix of Android and Microsoft tablets as well as Panasonic ToughBooks purchased with previous CIP and operating capital dollars. This request would pull all those dollars into one request allowing for consistent purchase and replacement. There are currently ITC operating budget dollars used for licensing for both hardware and software maintenance and support.

			Capital Project Red	quest				
Project Title:	Town Side Multi-Function Printer	Devices			Fiscal Year:	2020		
Purpose:	Acquisition	Classification:	Technology	Status:	Same Request from the Prior CIP			
Department:	Finance			Funding Source:	Revolving Fund			
Partners:								
			<u>Parameters</u>			Response		
1. Are there any co	Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included?							
2. Are there recom	nmendations or costs identified by othe	er departments whi	ch are NOT factored into the	request?		No		

1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included?	No
2. Are there recommendations or costs identified by other departments which are NOT factored into the request?	No
3. Does the project support activities to produce new revenue for the Town?	No
4. Does this project require any permitting by any Town or State agency?	No
5. If funded, will additional permanent staff be required?	No
6. If funded, will the operating budget need to be increased to cover operating expenses?	No
7. If funded, will this project increase the operating expense for any other department?	No
8. If funded, will this project lower the requesting Department's operating costs?	No
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?	No
10. If the project is NOT funded, will current Town revenue be reduced?	No
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?	No
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?	No
13. Is this a request in response to a Court, Federal, or State order?	No
14. Is this a request in response to a documented public health or safety condition?	No
15. Is this a request to improve or make repairs to extend the useful life of a building?	No
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?	No
17. Is this a request to repair or otherwise improve public property which is NOT a building or infrastructure?	No
18. Will any other department be required to provide assistance in order to complete the project?	No

Primary Reason for the Request: Obsolete/non-functioning

How was the Estimated Project Cost Determined: In-House Estimate Estimated Project Cost: \$106,800

Useful Life: Between eight (8) and twelve (12) years

Budget Impact: Negligible impact on the annual operating expenses less than \$5,000

Total New FTE's:

Project Budget Elements	Project Budget	2020	2021	2022	2023	2024
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$106,800	\$35,600	\$35,600	\$35,600		
Other Expenses	\$0					
TOTAL	\$106,800	\$35,600	\$35,600	\$35,600	\$0	

\$0

	Capital Project Request		
Project Title:	Town Side Multi-Function Printer Devices	Fiscal Year:	2020

Project Description and Considerations

This project is for the replacement of multi-function printers throughout the four primary Town locations (Town Hall, Public Services Administration Building, Public Safety, Center at The Heights) due to either being obsolete or part of a planned schedule replacement. In all there are nine of these devices between the buildings with only three of the devices not purchased during a capital project. Though several of these devices are currently over six years old, with one over eight, only one has reached 50% of the anticipated life cycles for each model according to the manufacturer estimated cycles per year. Based on the current usage the expected life of these devices is between ten and twelve years however the manufacturer of these devices does not guarantee the availability of parts or consumables past seven years. The cycle for replacement of these multi-function printers would be seven years. During their replacement they would be replaced with devices similar in specifications. Due to the time out till replacement it is difficult to give an actual make and model that would be purchased. The current devices are listed below.

The revision to this request is that the fiscal year of start was moved forward two years from fiscal year 2021 to fiscal year 2019. The movement forward request was made, after conversation with the Town Manager, because of the increase of device downtime which required maintenance causing time lost waiting for printing projects as well as the issue, as noted above, with the lack of availability of parts and consumables from the manufacturer past seven years. More frequently, OEM consumables and parts have been replaced with refurbished and third party parts which in some case have not worked with the older multi-function printers. By fiscal year 2019 the age of the majority of these devices will range from five to eight years with the remaining three to four years old. The process of determining which devices will be replaced will be based on the age of the machine and the overall amount of use.

- 1) Public Services Administration Building, 2nd Floor, Ricoh Aficio MP 7500
- 2) Public Services Administration Building, 1st Floor, Ricoh Aficio MP 7501 / Replaced FY19
- 3) Public Services Administration Building, 2nd Floor, Ricoh Aficio MP 8001
- 4) Town Hall, Lower Level, Ricoh Aficio MP 7501 / Replaced FY19
- 5) Town Hall, 1st Floor, Ricoh Aficio MP 7501
- 6) Town Hall, Lower Level, Ricoh Pro 1357EX
- 7) Center at the Heights Copy Room RICOH MP C5503
- 8) Public Safety, Police, Konica Minolta Biz Hub 350
- 9) Public Safety, Fire, Konica Minolta Biz Hub 350

			Capital Proje	ct Request			
Project Title:	Revenue Application	Software Package				Fiscal Year:	2021
Purpose:	Acquisition	Classification:	Technology	Status:	Same Request fro	om the Prior CIP	
Department:	Finance			Funding Source:	General Fund		
Partners:	Treasurer's Office, Acco	ounting Department, Finance Dep	partment, School Busin	ess Office, School Human Resources,	Payrol, IT Services		
			<u>Parameters</u>				<u>Response</u>
1. Are there any co	osts to bid, design, constr	ruct, purchase, install, implemen	t, or otherwise comple	te the project which are NOT include	d is this request?		No
2. Are there recom	mendations or costs ide	ntified by other departments wh	ich are NOT factored in	nto the request?			No
3. Does the project	t support activities to pro	oduce new revenue for the Towr	1?				Yes
4. Does this project	t require any permitting	by any Town or State agency?					No
5. If funded, will ac	dditional permanent staf	f be required?					No
6. If funded, will th	e operating budget need	d to be increased to cover operat	ting expenses?				Yes
7. If funded, will th	is project increase the o	perating expense for any other o	lepartment?				No
8. If funded, will th	is project lower the requ	uesting Department's operating o	costs?				No
9. If funded, will th	is project require ongoir	ng assistance from vendors at an	additional expense to	the Town which is NOT already budge	eted?		Yes
10. If the project is	NOT funded, will curren	nt Town revenue be reduced?					No
11. Is specialized tr	raining or annual licensin	ng required that the Town will ne	ed to pay in order to u	se the asset?			Yes
12. Is this a project	for which an Initial Eligi	bility Project Application can be	filed with the Commun	ity Preservation Committee (CPC)?			No
13. Is this a reques	t in response to a Court,	Federal, or State order?					No
14. Is this a reques	t in response to a docum	nented public health or safety co	ndition?				No
15. Is this a reques	t to improve or make rep	pairs to extend the useful life of a	a building?				No
16. Is this a reques	t to purchase apparatus,	equipment that is intended to b	e permanently installe	d at the location of its use?		<u> </u>	No
17. Is this a reques	t to repair or otherwise i	improve public property which is	NOT a building or infra	astructure?		<u> </u>	No
18. Will any other	department be required	to provide assistance in order to	complete the project?			-	Yes

Primary Reason for the Request: Operational efficiency

How was the Estimated Project Cost Determined: In-House Estimate

Estimated Project Cost:

\$1,100,000

Useful Life: Between eight (8) and twelve (12) years

Budget Impact: May increase annual operating expenses between \$5,001 and \$25,000

Total New FTE's:

Project Budget Elements	Project Budget	2021	2022	2023	2024	2025
Planning/Feasibility	\$0					
Design/Engineering	\$0					
Land/ROW Acquisition	\$0					
Site Preparation	\$0					
Construction	\$0					
Construction Management	\$0					
Equipment	\$0					
Furniture, Fixtures, and Equipment	\$0					
Technology Hardware/Software	\$1,100,000	\$1,100,000				
Other Expenses	\$0					
TOTAL	\$1,100,000	\$1,100,000	\$0	\$0	\$0	\$0

\$0

	Capital Project Request		
Project Title:	Revenue Application Software Package	Fiscal Year:	2021

Project Description and Considerations

The Revenue and General Ledger/Accounting Software Package Replacement is a request to replace the current Revenue and General Ledger/Accounting Software Packages. The current Revenue Application was first purchased in 1996 and has gone through several versions since the original implementation. Its primary function is the collection of Real Estate and Personal Property Tax, Excise Tax, Utility Fees, and Miscellaneous Revenues collected among both Town and School Departments. There are other modules that are incorporated with the Revenue Package and these include Customer Information, Land /Parcel Management, and Cash Receipts. There has been a need for better reporting out of the Revenue package which is currently housed on an IBM piece of hardware. All of the specialized programming and processes in the Revenue Application are done using COBOL which in combination with the IBM hardware is becoming more and more difficult for the Information Technology Center (ITC) to support. Migrating both the application and hardware to a non-IBM piece of hardware would bring that specific application and hardware into the business model currently in place in the ITC. The General Ledger/Accounting Software Package has been in place since FY14. The movement to a different vendor providing the General Ledger/Accounting Software Package has been both beneficial and troublesome at the same time. Though some reporting, requisition, and rollover processes have seen improvements, the fact that the Revenue and General Ledger/Accounting packages are from two different vendors and hardware types has caused some problems. Most of those problems involve certain processes becoming more tedious and time consuming leading to delays in departments disseminating information. These processes range from revenue posting, cash reconciliation, bank account reconciliation, and personnel reporting. The complexity of the Town's payroll has also pushed the limits of the General Ledger/Accounting package leading to some confusion from certain employee groups about the line items on payroll checks and direct deposit notices. There may need to be additional cost increases for ongoing annual maintenance in comparison to the current Revenue and General Ledger/Accounting Software Packages. It is difficult to say the exact amount at this time but is anticipated these costs will be more due to the complex nature of the Town's business and the level of application needed. Also after implementation there may be situations that may require programming specialization which the vendor would supply. The planning and implementation for this project will involve multiple Town departments (Treasurer's Office, Accounting Office, Assessor's Office, Human Resources) as well as School departments (Business Office, Human Resources, Payroll, Information Technology Services).

				Capital	Project Request						
Project Title: Re	placement o	f AED (Automated Ex	ternal Defibri	illators)					Fiscal Year:		2023
Purpose: Ac	quisition	Cl	assification:	Equipment		Statu	JS:	Amended Reques	t from the Prio	CIP	
Department: Po	lice			·		Supp	orts:	Public Safety			
Partners: N/	A					Usef	ul Life:	Between eight (8)	and twelve (12)	years	
•				<u>Paramete</u> i	<u>'S</u>						Response
L. Are there any costs	to bid, design,	construct, purchase, ins	tall, implement	t, or otherwise co	mplete the project	which are	NOT included	is this request?		No	
. Are there recomme	ndations or cos	ts identified by other de	epartments whi	ich are NOT facto	red into the reques	t?				No	
3. Does this project red	quire any perm	itting by any Town or St	tate agency?							No	
I. If this request is for	Technology, ha	s the Department com	municated with	ITC, and does IT	C support the reque	st?				No	
		vements, has the Depar					vision, and do	es BM support the	request?	No	
i. If funded, will additi	onal permaner	nt staff be required?			-			Total New FTE's:		No	
. If funded, will the o	perating budge	t need to be increased t	o cover operati	ing expenses?					-	No	
3. If funded, will this p	roject lower th	e requesting Departmer	nt's operating c	osts?						No	
. If funded, will this p	roject require o	ongoing assistance from	vendors at an	additional expens	se to the Town whic	h is NOT a	lready budget	ed?		Yes	
.0. If the project is NO	T funded, will	current Town revenue b	e reduced?							No	
1. Is specialized traini	ng or annual li	censing required that th	e Town will nee	ed to pay in orde	r to use the asset?					No	
.2. Is this a project for	which an Initia	al Eligibility Project Appl	ication can be f	iled with the Con	nmunity Preservation	n Commit	tee (CPC)?			No	
.3. Is this a request in	response to a (Court, Federal, or State	order?							No	
4. Is this a request in	response to a	documented public heal	th or safety cor	ndition?						No	
.5. Is this a request to	improve or ma	ike repairs to extend the	e useful life of a	a building?						No	
.6. Is this a request to	purchase appa	ratus/equipment that is	s intended to be	e permanently in:	stalled at the location	on of its us	e?			No	
7. Is this a request to	repair or other	wise improve public pro	operty which is	NOT a building o	r infrastructure?					No	
18. Will any other dep	artment be req	uired to provide assista	nce in order to	complete the pro	oject?					No	
9. If funded, will this	project increas	e the operating expense	e for any other o	department?						No	
Project Cost: \$3	2,108	How was the Project	Cost Determine	ed:	Industry Refer	ences					
Budget Impact: Ne	gligible impact	on the annual operatin	g expenses less	than \$5,000							
Project Budget	Elements	Project Budget	2020	2021	2022		2023	2024	2025		2026
lanning/Feasibility		\$0									
Design/Engineering		\$0									
and/ROW Acquisition		\$0									
ite Preparation		\$0									
onstruction		\$0									
onstruction Manager	nent	\$0									
quipment		\$23,940					\$23,940)			
urniture, Fixtures, and		\$0									
echnology Hardware,	/Software	\$0									
Other Expenses		\$8,168	Ç	\$0			\$3,896	j			\$4,2
TOTAL		\$32,108	\$		\$0	\$0	\$27,836	\$0		\$0	\$4,27

Capital Project Request Project Title: Replacement of AED (Automated External Defibrillators) Fiscal Year: 2023

Project file: Replacement of AED (Automated External Denominators)	riscai rear:	2023
Project Description and Considerations		
This purchase is to replace all of the current AED equipment. Some of the current equipment in use is sixteen years old and at the end of its useful list same model that is carried by the Needham Fire Department allowing the equipment to be interchangeable when fire personnel arrive. We will be purple unit. The additional \$3896.00 is to purchase 12 hard shell, watertight carrying cases and one training unit.		
The AED's come with a 3 year warranty. It is our intention that after year three we would purchase maintenance program for all 12 AED at a cost of maintenance package would include all software and program upgrades replacement of batteries and pads. This cost would be included in the opera is the same program that the fire department currently utilizes.		

			Capital Proj	ect Request					
Project Title: Pol	ice Department Firearm Repla	cement					Fiscal Year:		2021
urpose: Acq	uisition	Classification:	Equipment	S	tatus:	Amended Reque	st from the Prior	CIP	
epartment: Poli	ce	•		S	upports:	Public Safety			
artners:				U	seful Life:	Between eight (8	3) and twelve (12)	years	
_			<u>Parameters</u>						Response
. Are there any costs to	o bid, design, construct, purchase,	install, implement,	or otherwise comple	ete the project which	are NOT include	d is this request?		No	
. Are there recommen	dations or costs identified by other	departments which	ch are NOT factored i	nto the request?				No	
. Does this project req	uire any permitting by any Town o	r State agency?						No	
. If this request is for T	echnology, has the Department co	mmunicated with	ITC, and does ITC sup	port the request?				No	
. If this request is for B	building Improvements, has the Dep	oartment commun	icated with the Buildi	ng Maintenance (BM)	division, and d	oes BM support the	e request?	No	
. If funded, will addition	nal permanent staff be required?					Total New FTE's:		No	
If funded, will the op	erating budget need to be increase	d to cover operation	ng expenses?					No	
. If funded, will this pro	oject lower the requesting Departn	nent's operating co	osts?					No	
. If funded, will this pro	oject require ongoing assistance fro	om vendors at an a	dditional expense to	the Town which is NC	T already budge	eted?		No	
0. If the project is NO 1	funded, will current Town revenu	e be reduced?						No	
 Is specialized trainir 	ng or annual licensing required that	the Town will nee	d to pay in order to u	se the asset?				No	
2. Is this a project for v	which an Initial Eligibility Project Ap	oplication can be fi	led with the Commur	nity Preservation Com	mittee (CPC)?			No	
3. Is this a request in r	esponse to a Court, Federal, or Sta	te order?						No	
4. Is this a request in r	esponse to a documented public h	ealth or safety con	dition?					No	
5. Is this a request to i	mprove or make repairs to extend	the useful life of a	building?					No	
6. Is this a request to p	ourchase apparatus/equipment tha	t is intended to be	permanently installe	d at the location of its	use?			No	
7. Is this a request to r	epair or otherwise improve public	property which is I	NOT a building or infr	astructure?				No	
8. Will any other depa	rtment be required to provide assi	stance in order to o	complete the project	?				No	
9. If funded, will this p	roject increase the operating expe	nse for any other d	lepartment?					No	
,	,630 How was the Proje			Industry References					
udget Impact: Neg	ligible impact on the annual opera	ting expenses less	than \$5,000						
Project Budget E	-7	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility	\$0								
esign/Engineering	\$0								
and/ROW Acquisition	\$0								
ite Preparation	\$0								
onstruction	\$0								
onstruction Managem									
quipment	\$31,630		\$31,630						
urniture, Fixtures, and									
echnology Hardware/									
ther Expenses	\$5,000		\$5,000						
OTAL	\$36,630	\$(0 \$36,630	\$0	\$	n ¢	0	\$0	

	Capital Project Request		
Project Title:	Police Department Firearm Replacement	Fiscal Year:	2021

Project Description and Considerations
The current service weapon of the Police Department is a Smith and Wesson M&P 40 caliber. The weapon is outfitted with night sights and has a 15 round capacity in each magazine. The current weapon was placed into service in 2009, replacing a weapon that was in service for eight years. Based on a study conducted by the FBI and research done by our firearms instructors we would replace the Smith and Wesson 40 caliber with a 9MM firearm (make and model to be determined). The cost includes the purchase of the new firearms and holsters. The other expense (\$5000.) is for the purchase of new 9mm ammunition. The department intends to purchase 55 weapons.

				Capital Proje	ect Request					
Project Title: Po	olice and Fire N	Mobile and Portable	Radios					Fiscal Year:		2020
urpose: Ac	quisition	CI	lassification: Ec	quipment		Status:	Amended Reques	t from the Prior	CIP	
epartment: Po	olice					Supports:	Public Safety			
artners: Fi	re Department E	OC				Useful Life:	Between eight (8)	and twelve (12)	years	
				<u>Parameters</u>					<u> </u>	Response
. Are there any costs	to bid, design, o	construct, purchase, ins	stall, implement, or o	otherwise complet	e the project whi	ch are NOT includ	led is this request?		No	
Are there recomme	endations or cost	ts identified by other de	epartments which a	re NOT factored ir	nto the request?				No	
. Does this project re	quire any permi	tting by any Town or St	tate agency?						No	
. If this request is for	Technology, ha	s the Department com	municated with ITC,	and does ITC supp	ort the request?				No	
If this request is for	Building Improv	ements, has the Depar	tment communicate	ed with the Buildir	ng Maintenance (I	BM) division, and	does BM support the	request?	No	
If funded, will addit	ional permanen	t staff be required?					Total New FTE's:		No	
If funded, will the o	perating budget	need to be increased t	to cover operating e	xpenses?					No	
If funded, will this p	project lower the	requesting Departmen	nt's operating costs?	?					No	
If funded, will this p	project require o	ngoing assistance from	vendors at an addit	tional expense to t	he Town which is	NOT already bud	geted?		No	
D. If the project is NO	OT funded, will c	urrent Town revenue b	e reduced?						No	
 Is specialized train 	ing or annual lic	ensing required that th	e Town will need to	pay in order to us	e the asset?				No	
2. Is this a project fo	r which an Initia	l Eligibility Project Appl	ication can be filed v	with the Commun	ity Preservation C	ommittee (CPC)?			No	
3. Is this a request in	response to a C	ourt, Federal, or State	order?						No	
4. Is this a request in	response to a d	ocumented public heal	th or safety condition	on?					No	
5. Is this a request to	improve or ma	ke repairs to extend the	e useful life of a buil	ding?					No	
6. Is this a request to	purchase appai	ratus/equipment that is	s intended to be per	manently installed	l at the location o	f its use?			No	
7. Is this a request to	repair or other	wise improve public pro	operty which is NOT	a building or infra	structure?				No	
8. Will any other dep	artment be requ	uired to provide assista	nce in order to com	plete the project?					No	
9. If funded, will this	project increase	the operating expense	e for any other depa	rtment?					No	
roject Cost: \$6	17,550	How was the Project	Cost Determined:		Industry Referenc	es				
		on the annual operatin	g expenses less thar	า \$5,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisition	n	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Manage	ment	\$0								
quipment		\$617,550	\$617,550							
ırniture, Fixtures, ar	nd Equipment	\$0								
echnology Hardware	e/Software	\$0								
ther Expenses		\$0								
		\$617,550	\$617,550	\$0	\$(\$0 \$0		\$0	

Capital Project Request Project Title: Police and Fire Mobile and Portable Radios Fiscal Year: 2020

Project Description and Considerations

The current police cruiser radio system has been in service for over nine years. This is the primary communication tool between the officers in the field and the police dispatch center. The eighteen radios are Motorola Astro Spectra series now discontinued by the manufacturer. While we currently do not have service agreements for the cruiser radios due to age of the radios, replacement parts will be increasingly difficult to acquire in the future. With this in mind, the department is proposing to replace 20 cruiser radios with a compatible radio system in FY 2020. At that time, these units will have been in service for fourteen years, which would be the end of their useful life cycle.

The current police portable radios have been in service for nine years and is approaching the end of its useful life cycle. The portable radios are used for officer safety and the main means of communication between headquarters and the officer in the field that is outside his/her cruiser. The current model XTS 2500 is no longer manufactured by motorola and may be difficult to maintain as we integrate the new communication equipment. I am requesting seventy five portable radios to outfit sworn and non-sworn personnel which would include animal control, parking enforcement, dispatchers and special detail workers.

The Fire Department is looking to replace or add 16 new portables and two mobile radios for the apparatus. The sixteen portable radios would replace older radios that are at the end of their useful lifecycle and to outfit each seat on the equipment with a portable radio. The portable radio is the primary communication tool with dispatch and the command vehicle when firefighters are outside the equipment or inside structures. The two mobile radios are to replace the current mobile radios that are at the end of their useful lifecycle.

Currently the EOC has equipment that has been handed down from the police and fire equipment that has been outdated for several years. Emergency Management is looking to purchase six portable radios to assist in emergency management related incidents. The purchase of the new radios would ensure compatibility with the current proposed public safety communication system.

The cost of this request is a quote from Motorola that includes the cruiser/apparatus radios, portable radios and all equipment needed to operate. The quote was established as part of the ongoing public safety and communication construction project.

				Capital Proj	ect Request					
Project Title:	Public Safety Fi	tness Equipment						Fiscal Year:		2020
Purpose:	Acquisition	CI	assification: Eq	quipment		Status:	New Request			
Department:	Fire	•				Supports:	Public Safety			
Partners:	Police					Useful Life:	Between eight (8) and twelve (12)	years	
				<u>Parameters</u>						Response
1. Are there any cos	sts to bid, design,	construct, purchase, ins	tall, implement, or o	therwise comple	te the project which	n are NOT include	ed is this request?		No	
2. Are there recomr	mendations or cos	sts identified by other de	partments which ar	e NOT factored in	nto the request?				No	
3. Does this project	require any perm	itting by any Town or St	ate agency?						No	
4. If this request is f	or Technology, ha	s the Department comr	nunicated with ITC, a	and does ITC sup	port the request?				No	
5. If this request is f	or Building Impro	vements, has the Depar	tment communicate	ed with the Buildi	ng Maintenance (BN	л) division, and c	loes BM support the	e request?	Not A	Applicable
6. If funded, will add	ditional permaner	nt staff be required?					Total New FTE's	::	No	
7. If funded, will the	e operating budge	t need to be increased t	o cover operating ex	rpenses?					No	
8. If funded, will this	s project lower th	e requesting Departmer	it's operating costs?						No	
9. If funded, will this	s project require o	ongoing assistance from	vendors at an additi	ional expense to	the Town which is N	IOT already budg	eted?		No	
10. If the project is	NOT funded, will o	current Town revenue b	e reduced?						No	
11. Is specialized tra	aining or annual li	censing required that th	e Town will need to	pay in order to u	se the asset?				No	
12. Is this a project	for which an Initia	al Eligibility Project Appli	cation can be filed w	vith the Commun	ity Preservation Co	mmittee (CPC)?			No	
									No	
14. Is this a request	in response to a o	documented public heal	th or safety conditio	n?					No	
15. Is this a request	to improve or ma	ike repairs to extend the	useful life of a build	ding?					No	
16. Is this a request	to purchase appa	ratus/equipment that is	intended to be perr	manently installed	d at the location of	its use?			No	
		wise improve public pro							No	
18. Will any other d	lepartment be req	uired to provide assista	nce in order to comp	olete the project?					No	
19. If funded, will th	nis project increas	e the operating expense		rtment?	_				No	
	\$83,613	How was the Project			Industry Reference	S				
		on the annual operating	g expenses less than	\$5,000						
Project Budg		Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$0								
Land/ROW Acquisit	ion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Manag	gement	\$0								
Equipment		\$0								
Furniture, Fixtures,		\$83,613	\$83,613							
Technology Hardwa	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$83,613	\$83,613	\$0	\$0		\$0	\$0	\$0	\$(
\$0										FY202

Capital Project Request Project Title: Public Safety Fitness Equipment Fiscal Year: 2020

Project Description and Considerations

This request is to provide fitness and exercise equipment to be installed in the new Public Safety Building and FIre Station 2. The equipment will be used by Fire and Police personnel to maintain fitness and health during their careers. Public safety personnel are considered to be industrial athletes, as the performance of their duties is physical at times to a level not dissimilar to that of professional athletes. It is mission critical that public safety personnel maintain a functional level of fitness and having well equipped fitness facilities at each station will help ensure this level of readiness. There is a real and ongoing cost benefit in maintaining the health and fitness of our personnel. Occupational injuries result in lost time, wages and in some cases lead to disability retirement costing significant sums of money. Strength and cardio conditioning can significantly reduce the number of occupation al injuries over time, as well as reduce their associated costs.

The request includes funding for Cardio, strentgh training and conditioning equipment and accessories. A complete list is as follows:

CARDIO EQUIPMENT:(4) Treadmills (Commercial Grade) Life Fitness; (2) Step Mills Stairmaster; (2) Ellipticals Life Fitness; (2) Concept 2 Rowers Concept 2 Model D; (2) Spin Style Bikes Kieser; (1) Airdyne Bike Assault Airbike; (2) Wahoo Snap Bicycle Trainors Wahoo Kickr Snap.

Public Safety Bldg. :\$28,450 Fire Station 2: \$18,256

STRENGTH EQUIPMENT: (2) Power Racks with Platforms Rogue Moster Lite; (1) 1750 Cable Crossover w/ pulldown & row assemblies Nautilus; Dumbbells 10 -120 Lbs Life Fitness; (3) Adjustable Benches X-Mark XM; (1) Bench Press Body-Solid; Bumper plates and Iron plates Vulcan Alpha Bumper; EZ Curl Bar; (2) X-Mark Olympic EZ Curl Bar; Reverse Hyper Extension Rogue; Preacher Curls X-MArk XM; 1 Hex Bar X-Mark; Dumbell/Plates/Barbell Storage; Pull up Bar; Bands TRX TRX Pro4.

Public Safety Bldg.: \$14,263 Fire Station 2: \$17,314

CONDITIONING EQUIPMENT Kettle Bells Set Rogue 4 pairs of different weight; TRX with Wall mounts; TRX Builder Bundle; Plyo Box Rogue Flat Pack 3; Rogue Gymnastic Wood Rings; Medicine Balls.

Public Safety Bldg.: \$1,107 Fire Station 2: \$1,107

ACCESSORIES: Rogue Echo Timer; Rollers (2 Foam, 1 Foam PVC. 1 PVC); 2 Yoga Balls Everlast Burst Resistent; 2 BOSU Balls Bosu Elite Balance Trainer.

Public Safety Bldg.: \$2,009 Fire Station 2: \$1,107

Total Pub Safety Bldg: \$45,829

Total Sta 2 \$37,784

			Capital Proje	ct Request				
Project Title: Ongoi	ng Personal Protective Equip	pment, PPE ("bunke	er gear") Replace				Fiscal Year:	2020
Purpose: Acquis	ition	Classification: Ec	quipment	St	atus:	Amended Request	from the Prior CIP	
Department: Fire				Su	ipports:	Public Safety		
Partners: Board	of Selectmen; Finance Committe	e		Us	seful Life:	More than eight (8)	years	
			<u>Parameters</u>					<u>Response</u>
1. Are there any costs to be	id, design, construct, purchase, i	nstall, implement, or o	therwise complete	the project which ar	re NOT included is	this request?		No
2. Are there recommendat	ions or costs identified by other	departments which ar	e NOT factored int	o the request?				No
	e any permitting by any Town or							No
	nnology, has the Department cor							No
5. If this request is for Build	ding Improvements, has the Dep	artment communicate	ed with the Building	g Maintenance (BM)	division, and doe	s BM support the re	quest?	No
6. If funded, will additional	permanent staff be required?					Total New FTE's:		No
	ting budget need to be increased		•					No
8. If funded, will this project	ct lower the requesting Departm	ent's operating costs?						No
	ct require ongoing assistance fro		ional expense to th	e Town which is NO	Γalready budgete	d?		No
	nded, will current Town revenue							No
·	r annual licensing required that		. ,					No
12. Is this a project for whi	ch an Initial Eligibility Project Ap	plication can be filed v	vith the Communit	y Preservation Comm	nittee (CPC)?			No
13. Is this a request in resp	onse to a Court, Federal, or Stat	e order?						No
14. Is this a request in resp	onse to a documented public he	alth or safety conditio	n?					No
	rove or make repairs to extend t							No
	chase apparatus/equipment that				use?			No
	air or otherwise improve public p	<u> </u>		tructure?				No
	ent be required to provide assis							No
	ect increase the operating expen							No
Project Cost: \$303,9				n-House Estimate				
	ble impact on the annual operat		\$5,000					
Project Budget Elen		2019	2020	2021	2022	2023	2024	2025
Planning/Feasibility	\$0							
Design/Engineering	\$0							
Land/ROW Acquisition	\$0							
Site Preparation	\$0							
Construction	\$0							
Construction Management	\$0							
Equipment	\$303,968	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424
Furniture, Fixtures, and Eq								
Technology Hardware/Soft	tware \$0							
Other Expenses	\$0							
TOTAL	\$303,968	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424	\$43,424
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Capital Project Request

Project Title: Ongoing Personal Protective Equipment, PPE ("bunker gear") Replacement Program

Fiscal Year:

2020

Project Description and Considerations

This request is to replace Personal Protective Equipment, PPE ("bunker gear") for 20% of all firefighting personnel on an annual basis. This is to ensure the life span of the equipment does not exceed the 10 year guideline. Ensembles issued prior to the recent purchase of a second set of PPE are approaching this time frame for many of our members. Fortunately, with the number of recent and forthcoming new hires, about a third of the Department have been issued PPE within the past 5 years. All fire personnel are in the process of being issued a second set of PPE allowing them to properly maintain this equipment in a healthy manner.

In FY 2018 a request was approved for the purchase of a second set of Personal Protective Equipment, PPE ("bunker gear") for all fire line personnel. The PPE requested includes boots, firefighting pants and coat. Our firefighting personnel regularly work in highly toxic environments caused by spills, chemical releases and the products of combustion. Numerous studies have found the number of carcinogens and other toxins associated with the fire ground to be extremely high. Further, the toxicity of these carcinogens appears to be much greater and more concentrated today, due to the wide spread use of synthetic and petroleum based building materials and furnishings found in modern construction. These unhealthy contaminents, chemicals, toxins and carcinogens adhere to our firefighter's "bunker gear", thus creating a lingering exposure concern for not only the firefighters, but to members of the public they serve, as they respond to calls for service. Recent research by NIOSH, CDC, National Fallen Firefighters Foundation and others clearly points to the increased risks of cancer due to firefighters wearing contaminated PPE adds to this risk. The following links may be helpful in understanding this research:

http://firefightercancersupport.org/wp-content/uploads/2013/08/Taking-Action-against-Cancer-in-the-Fire-Service.pdf

http://www.cdc.gov/niosh/firefighters/ffCancerStudy.html

http://www.everyonegoeshome.com/wp-content/uploads/sites/2/2016/03/Cancer-Alliance-January-2015.pdf

http://www.cdc.gov/niosh/pgms/worknotify/pdfs/ff-cancer-factsheet-final.pdf

Ignoring such reasearch could be considered to negligent going forward.

Our Department has taken additional measures to help reduce the risk of cancer, including outfitting each piece of apparatus with after action wipes to quickly remove carcinogens from responsders skin while still in the field. However, current safety practices dictate that firefighters be issued two sets of PPE, so that once contaminated the equipment can be washed in extracters anddriedd in dryers designed specifically for that purpose. Maintaining a second set of PPE allows for contaminated equipment to be washed and dried properly, while allowing personnel to remain available to respond to calls. Research has found that wet PPE creates a breeding ground for unhealthy bacteria, as well, which is also harmful.

Fulfillment of this request will be greatly beneficial to the health and wellness of our personnel and the public we serve. In doing so, the exposure to occupational carcinogens will be reduced with the potential for a reduction in the number of our members contracting cancer from the work place. In turn, this could result in a corresponding reduction in cancer related disability pensions saving funds in the future.

				Capital P	roject Request					
Project Title: B	Building Manag	ement System Upg	rade					Fiscal Year:		2020
Purpose: A	cquisition		Classification:	Technology		Status:	Amended Requ	uest from the Prior	CIP	
Department: P	ublic Works - Bui	lding Maintenance				Supports:	Other (see beld	ow for information))	
Partners:	ΓC, School Depar	tment				Useful Life:	More than eigh	nt (8) years		
				<u>Parameters</u>		•				Response
1. Are there any cost	s to bid, design, o	construct, purchase, i	nstall, implement,	or otherwise com	plete the project whi	ch are NOT includ	ded is this request?		No	
2. Are there recomm	endations or cos	ts identified by other	departments which	ch are NOT factore	ed into the request?				No	
3. Does this project r	equire any permi	tting by any Town or	State agency?						No	
4. If this request is fo	r Technology, ha	s the Department cor	nmunicated with	ITC, and does ITC:	support the request?				Yes	
5. If this request is fo	r Building Improv	rements, has the Dep	artment commun	icated with the Bu	ilding Maintenance (E	BM) division, and	does BM support t	he request?	Yes	
6. If funded, will addi	itional permanen	t staff be required?					Total New FTE	's: 0	No	
7. If funded, will the	operating budget	need to be increased	to cover operatii	ng expenses?				•	No	
8. If funded, will this	project lower the	e requesting Departm	ent's operating co	osts?					No	
9. If funded, will this	project require o	ngoing assistance fro	m vendors at an a	idditional expense	to the Town which is	NOT already bud	geted?		No	
10. If the project is N	OT funded, will o	urrent Town revenue	be reduced?						No	
11. Is specialized trai	ning or annual lic	ensing required that	the Town will nee	d to pay in order t	o use the asset?				No	
12. Is this a project fo	or which an Initia	l Eligibility Project Ap	plication can be fi	led with the Comr	nunity Preservation C	ommittee (CPC)?			No	
13. Is this a request in response to a Court, Federal, or State order?									No	
14. Is this a request in	n response to a d	ocumented public he	alth or safety con	dition?					No	
15. Is this a request t	o improve or ma	ke repairs to extend t	he useful life of a	building?					No	
16. Is this a request t	o purchase appa	ratus/equipment that	is intended to be	permanently insta	alled at the location o	f its use?			No	
17. Is this a request t	o repair or other	wise improve public p	roperty which is I	NOT a building or	infrastructure?				No	
18. Will any other de	partment be req	uired to provide assis	tance in order to o	complete the proje	ect?				Yes	
19. If funded, will this	s project increase	the operating expen	se for any other d	lepartment?					No	
Project Cost: \$	392,000	How was the Project	t Cost Determine	d:	Industry Reference	es				
Budget Impact: N	legligible impact	on the annual operat	ing expenses less	than \$5,000						
Project Budge	t Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$0								
Land/ROW Acquisition	on	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Manage	ement	\$0								
Equipment		\$0								
Furniture, Fixtures, a	nd Equipment	\$0								
Technology Hardwar	e/Software	\$392,000	\$392,00	0						
Other Expenses		\$0								
TOTAL		\$392,000	\$392,000	0 :	\$0 \$0)	\$0	\$0	\$0	\$
\$0		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,		·		<u>·</u>	-	•	FY202

		Capital Project Request		
Project Title:	Building Management System Upgrade		Fiscal Year:	2020
		Project Description and Considerations		•

The Town maintains a Building Management System (BMS) on the School's server to manage the heating, ventilation, and air conditioning (HVAC) in all major facilities throughout Town. This system consists of internal sensors in the HVAC components and a backend software product that allow Building Maintenance staff to review and diagnose HVAC issues remotely and on site. This system is critical to the maintenance of healthy air temperature within the buildings.

Project Summary

- Currently, the Town has three separate BMS systems. All of the buildings constructed since 2003, with the exception of the Newman, are on Schneider products. Buildings constructed between 2003 and 2007 are on ControlSuite, which is a legacy system that will cease to be supported in the near future. ControlSuite requires manual schedule adjustments for all after school activities and vacations. Buildings constructed between 2007 and 2015 are on the LON system, which is a customized product only supported by one vendor, and is no longer an industry standard. The Newman is on a standalone proprietary system that has limited interface with the LON system. Since there are multiple systems in place, there are communications issues that require utilizing different vendors to diagnose and fix a problem. All construction after 2015 has been outfitted with Struxureware. By standardizing the BMS to Struxureware, staff would receive better data on the HVAC systems. The existing system is housed within a School building on the School's network, even though Town staff are required to maintain and access it.
- This request is to upgrade and standardize all of the existing BMS so that the Town is only using and maintaining one system. The system will work with all of the controls in all buildings, with the exception of the Newman, which will require a conversion of the controls in order for this new system to communicate. The new system will simplify the hardware and software in each building, and be more user friendly for staff. This will allow integration with the afterhours permitting system, freeing up staff time required for inputting irregular schedules to ensure appropriate temperatures for afterhours events. The BMS system would be able to be migrated to the Town's network. The current plan is to replace the front end of the BMS system to the SmartStruxure Building Management System. This is the system that the new addition at the NHS, the Mitchell Modulars, and the Rosemary Complex have recently installed and the new Williams School will have when it opens.

Changes from Prior Submission Year

• This request was not funded in FY`19 and is being resubmitted in FY20. The three year project has been consolidated into one year. There is a \$70,000 increase based on the one year delay and an updated quote.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 4. The request will require assistance from the IT Department.
- 5. This is a Building Maintenance request.
- 18. The School Department will be involved.

				Capital Pro	ject Request				
Project Title:	Permanent Me	ssage Boards					F	iscal Year:	2021
Purpose:	Acquisition	1	Classification:	Technology		Status:	Amended Request f	rom the Prior CIP	
Department:	Public Works - Er	ngineering			9	Supports:	General Government	t	
Partners:	Town Manager's	Office, ITC				Useful Life:	Between eight (8) an	d twelve (12) year	S
				<u>Parameters</u>					<u>Response</u>
1. Are there any co	sts to bid, design,	construct, purchase, ir	stall, implement	, or otherwise compl	ete the project which	are NOT included	is this request?		No
		sts identified by other		ich are NOT factored	into the request?				No
		nitting by any Town or							Yes
4. If this request is	for Technology, h	as the Department con	nmunicated with	ITC, and does ITC sup	pport the request?				Yes
5. If this request is	for Building Impro	vements, has the Depa	rtment commur	nicated with the Build	ling Maintenance (BM	l) division, and do	es BM support the red	quest?	No
6. If funded, will ac	lditional permane	nt staff be required?					Total New FTE's:		No
7. If funded, will th	e operating budge	et need to be increased	to cover operati	ing expenses?					Yes
		ne requesting Departmo							No
		ongoing assistance fro		additional expense to	the Town which is N	OT already budget	ed?		No
		current Town revenue							No
11. Is specialized tr	aining or annual li	censing required that t	he Town will nee	ed to pay in order to	use the asset?				No
12. Is this a project	for which an Initia	al Eligibility Project App	lication can be f	iled with the Commu	nity Preservation Con	nmittee (CPC)?			No
13. Is this a reques	t in response to a	Court, Federal, or State	order?						No
14. Is this a reques	t in response to a	documented public he	alth or safety cor	ndition?					No
		ake repairs to extend t							No
		aratus/equipment that				ts use?			Yes
		rwise improve public p							Yes
18. Will any other	department be red	quired to provide assist	ance in order to	complete the project	t?				Yes
19. If funded, will t	his project increas	se the operating expen	se for any other o	department?					Yes
Project Cost:	\$228,000	How was the Projec			Current Contract				
Budget Impact:	Negligible impact	on the annual operati	ng expenses less	than \$5,000					
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibility	У	\$0							
Design/Engineering	•	\$0							
Land/ROW Acquisi	tion	\$0							
Site Preparation		\$0							
Construction		\$228,000		\$54,000	\$56,000	\$58,000	\$60,000		
Construction Mana	agement	\$0							
Equipment		\$0							
Furniture, Fixtures,		\$0							
Technology Hardw	are/Software	\$0							
Other Expenses		\$0							
TOTAL		\$228,000	\$	0 \$54,000	\$56,000	\$58,000	\$60,000	\$0	\$0
\$0									FY2020

			Capital Project Request		
Project Title:	Permanent Message Boards	_		Fiscal Year:	2021
-	-	•	Project Description and Considerations	•	

In support of the Board of Selectmen's goals, this request is for permanently installed message boards to communicate with residents.

Project Summaries

Currently the Public Works Department has mobile message boards that are used for large construction projects. These message boards are removed from construction projects and relocated to various sites in Town when requested for non-construction related notifications to residents and commuters. The existing message boards are difficult to maneuver, time consuming to program, and often not available for non-emergency notice.

This project will alleviate competition for the current message boards. The new message boards will have the capacity to be programmed remotely and simultaneously from a Town work station or laptop. There will be minimal operating costs, including a data plan to allow for remote updates and electricity for each location. This funding will fund one message board per year.

Central Avenue at Great Plain Avenue

- This is a gateway into the Town of Needham and a message board installed at this location would provide information to drivers and pedestrians leaving and entering the Town.
- One double sided message board will be permanently installed at this location.

Public Safety Building, School Street and Chestnut Street

- This building is positioned near a gateway into the Town of Needham and near the business center. There may be public safety information specific to these departments that could be viewed on a message board at this location.
- One message board will be permanently installed at this location.

Fire Station #2

- This building is positioned near a gateway into the Town of Needham and near the business center. There may be public safety information specific to these departments that could be viewed on a message board at this location.
- One message board will be permanently installed at this location.

Greendale Avenue at Great Plain Avenue

- This is a gateway into the Town of Needham and a message board installed at this location would provide information to drivers and pedestrians leaving and entering the Town.
- One double sided message board will be permanently installed at this location.

		Capital Project Request		
Project Title:	Permanent Message Boards		Fiscal Year:	2021

Supplemental Information

Changes from Prior Year Submission

- This project was pushed out until FY21 as the Town is still piloting the use of the message board installed at the RTS in the spring of 2016.
- Funding for message boards may be part of the Police and Fire Station Project.

Clarification of Questions

- 3. Conservation Commission permitting may be required for some locations. Depending on the location, a building permit and Design Review Board Approval may be required.
- 4. ITC will add the new message boards to the existing programming software.
- 7. There will be minimal operating costs for these boards which include cellular service for remote programming and electricity.
- 16. These message boards will be permanently installed at the chosen locations.
- 17. This request is to improve public property by installing informational message boards.
- 18. The Town Manager's Office will assist in the programming of these message boards.
- 19. There may be additional software maintenance costs for ITC.

				Capital Proj	ect Request					
Project Title:	DPW Specialty	Equipment					_	Fiscal Year:	2020	ļ
Purpose:	Acquisition		Classification: Ec	quipment		Status:	Amended Request	from the Prior CIF	,	
Department:	Public Works - G	arage				Supports:	Transportation Net	twork		
Partners:						Useful Life:	Between eight (8) a	and twelve (12) yea	ars	
				<u>Parameters</u>					Respons	se
1. Are there any co	osts to bid, design,	construct, purchase, ir	istall, implement, or o	otherwise comple	te the project which	are NOT included	is this request?		No	
2. Are there recom	nmendations or co	sts identified by other	departments which ar	re NOT factored i	nto the request?				No	
3. Does this project	t require any pern	nitting by any Town or	State agency?						No	
4. If this request is	for Technology, h	as the Department con	nmunicated with ITC,	and does ITC sup	port the request?				No	
5. If this request is	for Building Impro	ovements, has the Depa	artment communicate	ed with the Buildi	ng Maintenance (BN	1) division, and do	es BM support the r	equest?	No	
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will th	ne operating budge	et need to be increased	to cover operating ex	xpenses?					No	
		ne requesting Departme							No	
9. If funded, will th	nis project require	ongoing assistance from	n vendors at an addit	tional expense to	the Town which is N	OT already budge	ted?		No	
		current Town revenue							No	
11. Is specialized t	raining or annual I	icensing required that t	he Town will need to	pay in order to u	se the asset?				No	
12. Is this a project	t for which an Initi	al Eligibility Project App	olication can be filed v	with the Commun	nity Preservation Cor	nmittee (CPC)?			No	
13. Is this a reques	t in response to a	Court, Federal, or State	e order?						No	
	·	documented public he							No	
	•	ake repairs to extend t							No	
		aratus/equipment that				ts use?			No	
		rwise improve public p							No	
	•	quired to provide assist			?				No	
		se the operating expen							No	
Project Cost:	\$298,000	How was the Projec			Industry References					
Budget Impact:		t on the annual operati								
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026	
Planning/Feasibilit	•	\$0								
Design/Engineerin	•	\$0								
Land/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Man	agement	\$0	4	4						
Equipment		\$298,000	\$68,000	\$192,000	\$38,000					
Furniture, Fixtures		\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$298,000	\$68,000	\$192,000	\$38,000	\$0	\$0	\$0		\$0
\$0									F	Y2020

			Capital Project Request			
Project Title:	DPW Specialty Equipment				Fiscal Year:	2020
		1	Project Description and Considerations	-		

This request is for all large equipment that fits the definition of capital but is not included in the rolling stock. These pieces of equipment are not plated.

Project Summaries

Unit 351 -Parks & Forestry Tractor - FY20

• This piece of equipment moves and places materials such as park soil, mulch, and loam. It is also used to pick up wood, stump grindings, and log debris. The tractor has a three-way attachment that is used in over-seeding, field tilling, and synthetic turf grooming. This unit is part of the Snow & Ice Program.

New Unit # TBD - Highway Loader Mounted Snow Blower - FY21

• This new piece of equipment (addition to the Fleet) will be used to clear gutter lines, parking lots, and loading trucks.

Unit 334 – Parks & Forestry Specialty Mower - FY22

• This small mower performs a second cut on highly maintained baseball fields. It has floating cutting decks that provide a higher quality cut and playing surface, it also lessens the amount of scalping and mower damage to the field compared to the large area mowers. Since this machine has a lighter footprint than the large area mowers, it is able to cut fields even after heavy rains.

Changes from Prior Year Submission

- The replacement request for Unit 351 decreased because the division removed the aerator attachment on the revised quote.
- The loader mounted snow blower request increased based on a revised quote for a larger auger.
- The replacement request for Unit 334 decreased based on the updated quote.

				Capital Pro	ject Request				
Project Title:	Fleet Refurbish	ment					F	iscal Year:	2021
Purpose:	Construction		Classification:	Equipment		Status:	Amended Request f	rom the Prior CIP	
Department:	Public Works - Ga	rage				Supports:	Transportation Netw	vork	
Partners:						Useful Life:	More than five (5) ye	ears but less than	eight (8) years
				<u>Parameters</u>					<u>Response</u>
		construct, purchase, ir				ch are NOT included	is this request?		No
		ts identified by other		nich are NOT factored	into the request?				No
3. Does this project require any permitting by any Town or State agency?									
									No
5. If this request is	for Building Impro	vements, has the Depa	artment commu	nicated with the Build	ding Maintenance (B	M) division, and do	es BM support the red	quest?	No
6. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:)	No
7. If funded, will th	ne operating budge	t need to be increased	to cover operat	ting expenses?					No
8. If funded, will th	nis project lower th	e requesting Departm	ent's operating o	costs?					No
9. If funded, will th	nis project require o	ongoing assistance from	m vendors at an	additional expense to	the Town which is	NOT already budget	ed?		No
10. If the project is	NOT funded, will	current Town revenue	be reduced?						No
11. Is specialized to	raining or annual li	censing required that t	he Town will ne	ed to pay in order to	use the asset?				No
12. Is this a project	t for which an Initia	l Eligibility Project App	olication can be	filed with the Commu	inity Preservation Co	ommittee (CPC)?			No
13. Is this a reques	t in response to a (Court, Federal, or State	e order?						No
14. Is this a reques	t in response to a	documented public he	alth or safety co	ndition?					No
15. Is this a reques	t to improve or ma	ke repairs to extend t	he useful life of a	a building?					No
16. Is this a reques	t to purchase appa	ratus/equipment that	is intended to b	e permanently install	ed at the location of	its use?			No
17. Is this a reques	t to repair or other	wise improve public p	roperty which is	NOT a building or in	frastructure?				No
18. Will any other	department be req	uired to provide assist	ance in order to	complete the projec	t?				No
19. If funded, will t	this project increas	e the operating expen	se for any other	department?					No
Project Cost:	\$300,000	How was the Projec	t Cost Determin	ed:	In-House Estimate				
		on the annual operati	ng expenses less	s than \$5,000					
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibilit	У	\$0							
Design/Engineerin	g	\$0							
Land/ROW Acquisi	ition	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Mana	agement	\$0							
Equipment		\$300,000		\$150,000)	\$150,000			
Furniture, Fixtures	, and Equipment	\$0							
Technology Hardw	are/Software	\$0							
Other Expenses		\$0							
TOTAL		\$300,000	Ş	\$0 \$150,000	\$0	\$150,000	\$0	\$0	<u> </u>
ŚŊ									EV2020

Capital Project Request							
Project Title:	Fleet Refurbishment	_		_		Fiscal Year:	2021
•	-	_	Project Description and Considerations	•			•

In FY18, the Fleet Division implemented a refurbishment program for all large equipment. The goal of this program is to extend the life-cycles of the vehicles, increase operational safety, and eventually reduce reactive maintenance. The funding requests are spread out to allow the Fleet Division time to plan multiple repairs at once, follow procurement practices, and have the work completed.

Project Summary

- To accomplish these extended life-cycles, the Fleet Division must invest additional resources into the planned maintenance of this equipment.
- Rehabilitation work includes corrosion abatement, treatment and refinishing, replacing corroded chassis, air brake tanks or brake valves, rebuilding primary components, replacing suspension and brakes, and updating lighting and reflective striping.

Changes from Prior Year Submission

•	The Fleet Division decreased the amount and decided to delay until FY21 before requesting funding due to a lag in qualified vehicles for refurbishment.
	The vehicles that are 9-12 years old are not worth refurbishing. Vehicles should be 6-8 years old to be considered for refurbishment. There is also a lack
	of vendors who perform this type of work, so procuring these services has been an issue.

				Capital Proj	ect Request					
Project Title:	Library Furnitu	re						Fiscal Year:		2020
Purpose:	Acquisition	Cla	ssification: Eq	uipment		Status:	Amended Request	from the Prior CII	Р	
Department:	Library					Supports:	Culture and Leisure	9		
Partners:						Useful Life:	Between twelve (1	2) and eighteen (1	8) years	
				<u>Parameters</u>					<u>R</u>	<u>lesponse</u>
1. Are there any co	sts to bid, design,	construct, purchase, insta	all, implement, or of	therwise comple	te the project which	are NOT included	is this request?		Yes	
2. Are there recom	mendations or co	sts identified by other dep	partments which are	e NOT factored in	nto the request?				No	
									No	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									No	
5. If this request is	for Building Impro	vements, has the Departi	ment communicated	d with the Buildi	ng Maintenance (BM	l) division, and do	es BM support the re	equest?	No	
6. If funded, will ad	ditional permane	nt staff be required?					Total New FTE's:		No	
7. If funded, will th	e operating budge	et need to be increased to	cover operating ex	penses?					No	
		e requesting Department							No	
9. If funded, will th	is project require	ongoing assistance from v	endors at an additi	onal expense to	the Town which is N	OT already budget	ed?		No	
10. If the project is	NOT funded, will	current Town revenue be	reduced?						No	
		censing required that the							No	
12. Is this a project	for which an Initia	al Eligibility Project Applic	ation can be filed w	ith the Commun	ity Preservation Con	nmittee (CPC)?			No	
13. Is this a reques	t in response to a	Court, Federal, or State or	rder?						No	
		documented public health							No	
	· ·	ake repairs to extend the		<u> </u>					No	
		aratus/equipment that is i				ts use?			Yes	
17. Is this a reques	t to repair or othe	rwise improve public prop	perty which is NOT a	a building or infra	astructure?				No	
	•	quired to provide assistan)				Yes	
		e the operating expense		tment?					No	
Project Cost:	\$278,882	How was the Project C			Industry References	5				
Budget Impact:		on the annual operating	expenses less than	\$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit		\$0								
Design/Engineerin		\$0								
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures	, and Equipment	\$278,882	\$112,960	\$82,740	\$83,182					
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$278,882	\$112,960	\$82,740	\$83,182	\$0	\$0	\$	0	\$0
\$0										FY2020

Capital Project Request								
Project Title:	Library Furniture			Fiscal Year:	2020			

Project Description and Considerations

This request is for the second year of a four-year plan to replace library furniture. The first year of the project was granted in FY2019.

The "new" library has been open to the public for more than twelve years, and, due to heavy use, the furniture is beginning to show wear and tear. Some of the mesh on the Community Room stackable mesh chairs is unravelling, the backs are separting from the frames, and food has beencaught in the mesh and proven unable to be removed. The forty-two cloth public arm chairs are showing the ravages of heavy use, particularly the arms of the chairs. The thirty-eight leather public arm chairs are also beginning to show wear.

The prices listed in this request were obtained from manufactuter's websites.

160 Community Room audience stackable chairs @ \$706 each \$112,960

42 Public lounge chairs (cloth) @\$1,970 each 82,740

38 Public lounge chairs (leather) @ \$2,189 each 83,182

Total \$278,882

1, The services of a design consultant may be needed

16. All furniture would be installed at the library

18. Public Facilities personnel may be needed to help move futniture

				Capital Proje	ect Request					
Project Title:	Library RFID							Fiscal Year:	20	020
Purpose:	Acquisition	Cl	assification: Te	chnology		Status:	Amended request	from the prior CIP		
Department:	Library					Supports:	Culture and Leisure	9		
Partners:						Useful Life:	Between twelve (1	2) and eighteen (18) years	
				<u>Parameters</u>					<u>Res</u> p	oonse_
1. Are there any co	sts to bid, design, o	construct, purchase, ins	tall, implement, or o	therwise complet	e the project whic	n are NOT included	is this request?		Yes	
		ts identified by other de		e NOT factored in	to the request?				No	
									No	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?								No		
5. If this request is	for Building Improv	ements, has the Depar	tment communicate	d with the Buildin	g Maintenance (BN	Λ) division, and do	es BM support the re	equest?	No	
6. If funded, will ad	ditional permanen	t staff be required?					Total New FTE's:		No	
7. If funded, will the	e operating budget	need to be increased t	o cover operating ex	penses?					Yes	
		e requesting Departmer							No	
		ngoing assistance from		onal expense to t	he Town which is N	NOT already budge	ted?		No	
		urrent Town revenue b							No	
11. Is specialized tr	aining or annual lic	ensing required that the	e Town will need to p	pay in order to us	e the asset?				Yes	
12. Is this a project	for which an Initia	l Eligibility Project Appli	cation can be filed w	ith the Communi	ty Preservation Co	mmittee (CPC)?			No	
13. Is this a request	in response to a C	ourt, Federal, or State o	order?						No	
		ocumented public heal							No	
		ke repairs to extend the							No	
16. Is this a request	to purchase appar	ratus/equipment that is	intended to be pern	nanently installed	at the location of	its use?			Yes	
		wise improve public pro			structure?				No	
18. Will any other of	lepartment be requ	uired to provide assista	nce in order to comp	lete the project?					No	
	his project increase	the operating expense	for any other depar						No	
	\$327,200	How was the Project			Industry Reference	es .				
_ '	·	ual operating expenses	between \$25,001 an	nd \$50,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	20	026
Planning/Feasibility		\$0								
Design/Engineering	5	\$0								
Land/ROW Acquisit	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	gement	\$0								
Equipment	Equipment \$0									
Furniture, Fixtures,	Furniture, Fixtures, and Equipment \$313,766 \$313,766									
Technology Hardware/Software \$8,684			\$8,684							
Other Expenses		\$4,750		\$4,750						
TOTAL		\$327,200	\$0	\$327,200	\$0	\$	0 \$0	\$0)	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Library RFID		Fiscal Year:	2020

Project Description and Considerations

RFID, Radio Frequency Identification, is the technology toward which libraries arae migrating, as a means to increase efficiency and to cut down on repetitive action tasks. The advantages of the system include:

- 1. Reduction in the time necessary to check in and out library materials (in FY18 the library checked in and out more than 1,000,000 items)
- 2. Information can be read faster from the RFID tags than from barcodes.
- 3. The items in a stack can be read at the same time, as opposed to barcodes that must be read one at a time. checking a stack of materials in and out reduces repetitive action tasks, saving time and helping to avoid repetitive stress syndrom in employees
- 4. Patron self-checkout is simplified--patrons do not have to carefully line up a barcode with a laser beam
- 5. Opens the possibility of electronic inventorying , item searching, and shelf order checking

There are forty-one Minuteman Library Network libraries. Currently, thirteen Minuteman libraries are using RFID; three libraries are placing RFID tags in materials (the first step in migrating to RFID); and four more have expressed interest. The current thinking and discussions at Minuteman committee meetings is that, eventually, all Minuteman libraries will move to RFID. The libraries that are now operating with RFID have formed a "service" group for interlibrary loan service. Requests from these libraries go automatically to the other RFID libraries (they are the larger libraries in the system), where items are found and requests filled faster than at the non-RFID libraries. In FY18, Needham requested 63,599 items from other libraries for the use of Needham sent 61,189 items to other librariaes. With an RFID system that includes a portable scanner, these items could have been retrieved faster from the library's shelves, increasing the efficiency gof a library employee.

Further system investigation and obvservation at RFID libraries has shown that, for the RFID system to function at a peak level of efficiency, it must include an automated sorting system. In this system, materials are placed on conveyer-type equipment where the RFID tag is read and the item automatically drops into a predetermined bin of like materials. The divide can include one bin for items that are on reserve; one for items that belong to another library; one for a library's nonfiction books; one for a library's fiction books; one for a library's childrens books; plus many other useful divisions. The cost for a 15-bin system has been included below.

RFID System Cost:

RFID tags:	150,000 books @ \$0.16 each	\$24,000		
	35,000 media @ \$0.63 each	\$22,050	Total	\$46,050
Conversion Stati	ions:			
	2 @ \$11,178 each		Total	\$22,356
Staff Station Equ	uipment:			
	4 Staff Stations (Circulation Desk(@ \$4,895 each	\$19,580		
	1 Portable Scanner @ \$5,200	\$5,200	Total	\$24,780
Self-checkout Ed	quipment:			
	3 Self-Checkout Stations @\$6,860 each		Total	\$20,580
Software:	4 Staff Stations @ \$266 each	\$1,064		
	3 Self-Checkout Stations @\$2,450 each	\$7,620	Total	\$8,684
Sorting System	15 bin automated sorting system	\$200,000	Total	\$200,000
Installation and	Training:			
	Pre-Installation site survey	\$1,500		

			Capital Projec	t Request				
Project Title:	Library RFID						Fiscal Year:	2020
	•	,	Supplemental I	<u>nformation</u>	•	•		
Total Projec	t Cost				\$327,200			
1. The Circu	ulation Desk area and	d adjacent lounge area would ha	eve to be reconf	gured				
7. The Year	ly Operating Budget	would have to be increased for	the cost of RFID	tags:				
	Books:	12,000 @ \$0.16 each	\$1,920	Ü				
	Media	3,400 @ \$.63 each	\$3,142					
				Total	\$4,062			
and soft	ware licensing:							
	4 stff stations	\$1,064 \$7,620						
	3 self-checkout stations @ \$2,540			Total	\$8,684			
and 15 b	in sorty system main	tenance	\$17,000	Total	\$17,000			
Total yearly	operating budget in	creases:				\$29,746		
11. Annual	licensing listed unde	r #7						
16 All equip	oment will be installe	ed at the library						

				Capital Proj	ect Request					
Project Title:	Library Technol	logy Plan						Fiscal Year:		2020
Purpose:	Acquisition	CI	assification: Ted	chnology		Status:	New Request			
Department:	Library					Supports:	Culture and Leisure	9		
Partners:						Useful Life:	More than five (5)	years but less than	eight (8)	years
				<u>Parameters</u>					<u>Re</u>	<u>esponse</u>
1. Are there any co	sts to bid, design,	construct, purchase, inst	tall, implement, or ot	herwise complet	e the project which	are NOT included i	s this request?		No	
2. Are there recom	mendations or cos	sts identified by other de	partments which are	NOT factored in	to the request?				No	
3. Does this project	t require any perm	itting by any Town or St	ate agency?						No	
4. If this request is	for Technology, ha	as the Department comn	nunicated with ITC, a	nd does ITC supp	ort the request?				No	
5. If this request is	for Building Impro	vements, has the Depart	tment communicated	d with the Buildir	ng Maintenance (BN	1) division, and doe	s BM support the re	equest?	No	
6. If funded, will ad	dditional permaner	nt staff be required?					Total New FTE's:		No	
7. If funded, will th	e operating budge	t need to be increased to	o cover operating exp	penses?					No	
8. If funded, will th	is project lower th	e requesting Departmen	t's operating costs?						No	
9. If funded, will th	is project require o	ongoing assistance from	vendors at an addition	onal expense to t	he Town which is N	OT already budgete	ed?		No	
10. If the project is	NOT funded, will	current Town revenue b	e reduced?						No	
								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
13. Is this a request in response to a Court, Federal, or State order?								No		
		documented public healt							No	
15. Is this a reques	t to improve or ma	ake repairs to extend the	useful life of a buildi	ing?					No	
		ratus/equipment that is				ts use?			No	
17. Is this a reques	t to repair or other	rwise improve public pro	perty which is NOT a	building or infra	structure?				No	
18. Will any other	department be red	uired to provide assistar	nce in order to compl	lete the project?					No	
19. If funded, will t	this project increas	e the operating expense	for any other depart	ment?					No	
Project Cost:	\$171,680	How was the Project (In-House Estimate					
Budget Impact:		on the annual operating	g expenses less than S	\$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit	У	\$0								
Design/Engineerin	~	\$0								
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures	, and Equipment	\$0								
Technology Hardw	are/Software	\$171,680	\$30,000	\$48,500	\$26,280	\$36,500	\$30,400			
Other Expenses		\$0								
TOTAL		\$171,680	\$30,000	\$48,500	\$26,280	\$36,500	\$30,400	\$0)	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Library Technology Plan		Fiscal Year:	2020

Project Description and Considerations

This is a request that will fund five years of the library's FY2018-FY2029 Technology Plan.

FY20--Replace 20 staff computers (Circulation 7; Children's 5; Reference 3; Technical Services 3, Administration 2) @ \$1,500 each = \$30,000

FY21--Replace 29 public computers (Adult 20; Young Adult 4; Children's 4; Community Room 1) @ \$1,500 each = \$43,500 Replace 2 Self-Check computers @ \$2,500 each = \$5,000 \$48,500

FY22--Replace Program Specialist's 2 computers @ \$3,500 each =

\$7,000

Replace 16 barcode scanners (Circulation 6; Children's 5; Reference 5) @\$312.50 each=

\$5,000

Replace 24 receipt printers (circulation 10; Children's 6; Reference 5; Technical Services 3))@ \$345 each =

\$8,280

Replace four staff computers (Archives; Assistant Director; Reference Supervisor; Circulation Assistant) @ \$1,500 each = \$6,000

\$26,280

\$12,000 FY23--Replace Server =

\$10,500 Replace 15 Public Catalog Computers @ \$700 each =

Replace 5 UPS (Server; 2 Tel/Data Closets; Community Room; Wireless) @ \$200 each = \$1,000 Replace large format printer \$1,000

Replace Microfilm Machine \$12,000 \$36,500

FY24--Replace 20 staff computers (Circulation 7; Children's 5; Reference 3; Technical Services 3; Administration 2) @ \$1,500 each = \$30,000 **Replace Wireless Printer** \$400

\$30,400

				Capital Proje	ct Request					
Project Title:	Public Playgrour	nds						Fiscal Year:		2020
urpose:	Acquisition	Cla	assification: Eq	uipment		Status:	Amended Reques	st from the Prior	CIP	
epartment:	Park and Recreation	on				Supports:	Culture and Leisu	re		
artners:	School Departmen	nt				Useful Life:	Between eighteer	n (18) and twenty	-five (25) γ	ears/
				<u>Parameters</u>					<u>R</u>	esponse
. Are there any co	osts to bid, design, c	construct, purchase, inst	all, implement, or o	therwise complete	the project whi	ch are NOT includ	led is this request?		No	
. Are there recon	nmendations or cost	ts identified by other de	partments which ar	e NOT factored int	o the request?				No	
Does this projec	t require any permi	tting by any Town or St	ate agency?						No	
. If this request is	for Technology, has	s the Department comn	nunicated with ITC,	and does ITC suppo	ort the request?				No	
If this request is	for Building Improv	ements, has the Depart	ment communicate	d with the Building	g Maintenance (E	3M) division, and	does BM support the	request?	No	
If funded, will a	dditional permanen	t staff be required?					Total New FTE's:		No	
If funded, will th	ne operating budget	need to be increased to	o cover operating ex	rpenses?					No	
. If funded, will th	nis project lower the	requesting Departmen	t's operating costs?						No	
. If funded, will th	nis project require o	ngoing assistance from	vendors at an additi	ional expense to th	ne Town which is	NOT already bud	geted?		No	
D. If the project is	s NOT funded, will c	urrent Town revenue b	e reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
13. Is this a request in response to a Court, Federal, or State order?							Yes			
4. Is this a reques	st in response to a d	ocumented public healt	h or safety conditio	n?					No	
5. Is this a reques	st to improve or mal	ke repairs to extend the	useful life of a build	ding?					No	
6. Is this a reques	st to purchase appar	ratus/equipment that is	intended to be perr	manently installed	at the location o	f its use?			Yes	
7. Is this a reques	st to repair or other	wise improve public pro	perty which is NOT	a building or infras	structure?				Yes	
8. Will any other	department be requ	uired to provide assistar	nce in order to comp	olete the project?					Yes	
9. If funded, will	this project increase	the operating expense	for any other depar	tment?					No	
roject Cost:	\$700,000	How was the Project (Cost Determined:	li	ndustry Referenc	es				
udget Impact:		on the annual operating	expenses less than	\$5,000						
•	lget Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibilit	. Ty	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Man	agement	\$0								
quipment		\$700,000	\$350,000	\$350,000						
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw	vare/Software	\$0								
ther Expenses		\$0								

		Capital Project Req	uest	
Project Title:	Public Playgrounds		Fiscal Year:	2020

Project Description and Considerations

The Town of Needham has 18 public playground locations: Broadmeadow (2), Eliot (2), Hillside (2), Mitchell (1), Newman (3), Claxton, Cricket, DeFazio, Greene's, Mills, Perry, Riverside, and Walker-Gordon. With the addition of two locations at the Williams School, there will be 20. A list follows, under Supplemental Information.

Hillside has the oldest school playground equipment. It was updated in 2011, and will be able to remain in use for neighbors and visitors to the site, unless there are conflicts with future uses of the school site. It is recommended that the Hillside-Kindergarten playground be removed. The Mitchell School is currently replacing their playground, and adding features for Kindergarten age. If the future school plans require a new location for playgrounds, this equipment can be relocated. The Williams School will have new playground equipment installed as part of the construction project.

Broadmeadow's Grade 1-5 and Kindergarten playgrounds were installed in 2002 and will likely need upgrades in upcoming years. Eliot's two playgrounds were installed in 2004 and appear to be in excellent condition. Newman's Grade 1-5 and Kindergarten playgrounds were installed in 2012 and are in excellent condition. The Preschool playground received a poured-in-place surface in 2013. Its equipment was originally purchased in 1998 and moved to the Newman site in 2004. It is in good condition, but will need some refreshing. An improvement recommended for Broadmeadow and Eliot would be the installation of poured-in-place pathways.

Though wood fiber surfacing is currently considered ADA compliant, the MA Architectural Access Board may be creating a new ruling that will require other options for <u>pathways</u>, with the predominate recommendation that pathways be poured-in-place rubber. The addition of poured-in-place pathways reduces the wear and tear on the wood fiber surfacing, requiring less material to be installed a few times a year.

For the non-school playgrounds, all sites are in very good to excellent condition. Greene's Field's equipment was installed new in 2013, with a major donation from residents of over \$180,000. An ADA adaption is needed for swings, which also includes the addition of some poured-in-place pathway surfacing. Some funds are available for this project, but this project would help supplement the cost. There is also a request to add an ADA swing at Cricket. The Exchange Club has "adopted" DeFazio and Claxton, adding improvements over several years, and the Women's Club has reached out to offer support for upgrades. Parent Talk has "adopted" Cricket, Perry and Mills, with new playgrounds installed between 2001-2007. The Parent Talk Board would like consideration for upgrades at Perry Park. Riverside received new equipment in 2007 as part of the nearby Charles River Landing project. Walker-Gordon was replaced in 2013 as part of the park reconstruction project. Cricket will have ADA improvements completed when the park building is renovated.

The school projects will require consultation with the School Department, insuring their educational goals are met with any new structures. The estimate was made in-house, based on recent projects completed in Needham and informal discussions with playground and surfacing companies. Currently, the cost range for poured-in-place pathways, including installation and crushed stone base is \$30-40 per square foot, depending on site and scope.

		Capital Project Request		
Project Title:	Public Playgrounds		Fiscal Year:	2020
	-	Supplemental Information	-	•

PLAYGROUND	MANUFACTURER	YEAR	SURFACING	CURRENT CONDITIONS/FUNDING
Broadmeadow	Miracle	2002	Fiber	fair/good; financed PPBC/PTC donations
Broadmeadow-Kindergarten	Miracle	2002	Fiber	fair/good; financed PPBC/PTC donations
Claxton	Landscape Structures	1994/2007	Fiber/tile	very good; Exchange Club donations
Cricket	Landscape Structures	2005	Fiber	very good; Parent Talk donations
DeFazio	Landscape Structures	1997/1999	Fiber	good; Exchange Club donations
Eliot	Landscape Structures	2004	Fiber	very good; financed PPBC/PTC donations
Eliot-Kindergarten	Landscape Structures	2004	Fiber	very good; financed PPBC/PTC donations
Greene's	Landscape Structures	2013	Fiber/PIP	excellent; CPA/donations
Hillside	Landscape Structures	1995/2011	Fiber	very good; PTC donations
Hillside-Kindergarten	Kompan	2001	Fiber	good; RCN payment/PTC donations
Mills	Landscape Structures	2007	Fiber/tile	very good; Parent Talk donations
Mitchell	Landscape Structures	2008	Fiber	excellent; School Department
Newman	Landscape Structures	2012	syn grass	excellent; PPBC/PTC/Town
Newman-Kindergarten	Landscape Structures	2012	syn grass	excellent; PPBC/PTC/Town
Newman-Preschool	Landscape Structures	1998/2004	PIP	very good; PTC donations/CPC
Rebecca Perry	Landscape Structures	2001	Fiber	very good; Parent Talk donations
Riverside	Landscape Structures	2004/2007	Fiber	very good; Hanover Company
Walker-Gordon	Landscape Structures	2013	Fiber	excellent; Town
Williams	Landscape Structures	2019	PIP	excellent; PPBC
Williams-Kindergarten	Landscape Structures	2019	PIP	excellent; PPBC

loose surfaces = wood fiber
unitary surfaces = poured in place rubber (PIP); synthetic grass; rubber tiles

				Capital Project	Request				
Project Title: Sc	hool New and	Replacement Furnitu	ıre				F	iscal Year:	2020
Purpose: Ac	quisition	Cla	ssification: Eq	uipment	Sta	atus:	Amended Request for	rom the Prior C	IP
Department: Ne	edham Public So	chools	•		Su	pports:	Public Education		
Partners: No	ne				Us	eful Life:	More than twenty-fiv	ve (25) years	
				<u>Parameters</u>	•				Respons
1. Are there any costs	to bid, design, c	onstruct, purchase, inst	all, implement, or o	therwise complete	the project which a	re NOT included	is this request?		No
2. Are there recomme	ndations or cost	s identified by other de	partments which ar	e NOT factored into	the request?				No
3. Does this project re	quire any permit	tting by any Town or Sta	ate agency?						No
4. If this request is for	Technology, has	the Department comm	nunicated with ITC,	and does ITC suppor	rt the request?				No
5. If this request is for	Building Improv	ements, has the Depart	ment communicate	ed with the Building	Maintenance (BM)	division, and do	es BM support the re	quest?	No
6. If funded, will addit	ional permanent	staff be required?		-			Total New FTE's:		No
7. If funded, will the o	perating budget	need to be increased to	cover operating ex	kpenses?					No
8. If funded, will this p	roject lower the	requesting Departmen	t's operating costs?						No
9. If funded, will this p	roject require or	ngoing assistance from	vendors at an addit	ional expense to the	Town which is NO	T already budge	ted?		No
10. If the project is NC	T funded, will co	urrent Town revenue be	e reduced?						No
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								No	
13. Is this a request in response to a Court, Federal, or State order?							No		
14. Is this a request in response to a documented public health or safety condition?								No	
15. Is this a request to	improve or mak	ce repairs to extend the	useful life of a build	ding?					No
16. Is this a request to	purchase appar	atus/equipment that is	intended to be per	manently installed a	t the location of its	use?			No
17. Is this a request to	repair or otherv	vise improve public pro	perty which is NOT	a building or infrast	ructure?				No
18. Will any other dep	artment be requ	ired to provide assistar	nce in order to com	plete the project?					No
19. If funded, will this	project increase	the operating expense	for any other depart	rtment?					No
Project Cost: \$1	54,000	How was the Project C	ost Determined:						
Budget Impact: Ne	gligible impact o	on the annual operating	expenses less than	\$5,000					
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibility		\$0							
Design/Engineering		\$0							
Land/ROW Acquisitior	า	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Manage	ment	\$0							
Equipment		\$145,000	\$35,000	\$35,000	\$25,000	\$25,000	\$25,000		
Furniture, Fixtures, an		\$0							
Technology Hardware	/Software	\$0							
Other Expenses		\$0							
TOTAL		\$145,000	\$35,000	\$35,000	\$25,000	\$25,000	\$25,000	d	60

Section 3 - 63

	Capital Project Request		
Project Title:	School New and Replacement Furniture	Fiscal Year:	2020

Project Description and Considerations

In FY05 Town Meeting approved funding of \$20,500 to begin the replacement of furniture in poor and fair condition throughout the School Department. By FY15, all furniture in 'poor' condition was replaced in the schools. The FY20-FY24 funding request will continue with the replacement of furniture in fair condition at Pollard, provide funding for new new classroom furniture as needed, and will address targeted furniture needs at Eliot and Mitchell Schools. A breakdown of the funding request is found below:

FY20: \$35,000

- * \$9,000 to replace student desks in Grades 1 and 2 with tables.
- * \$16,000 to reconfigure the Mitchell School music room into four offices (for literacy, math, ELL and psychology.) Starting with the FY 19/20 School Year, music will be held in one of the two new

modular classrooms under construction on that campus.

* \$10,000 to continue the replacement of furniture at Pollard Middle School in 'fair' condition

FY21: \$35,000

- * \$10,000 to conclude the replacement of furniture at Pollard Middle School in 'fair' condition
- * \$25,000 to purchase new classroom furniture as needed for new enrollment or replacement purposes.

FY22 - FY24: \$25,000/year

* \$25,000 to purchase new classroom furniture as needed for new enrollment or replacement purposes.

The anticipated furniture replacement schedule is depicted below:

	Request [®]	Request	Request2	Request2	Request⊡	
Funding P lan	FY20	FY21	FY22	FY23	FY24	TOTAL
Eliot⊞urniture	\$9,000					\$9,000
Mitchell Music Room Reconfiguration	\$16,000					\$16,000
Pollard	\$10,000	\$10,000	\$0	\$0	\$0	\$20,000
New Classrooms		\$25,000	\$25,000	\$25,000	\$25,000	\$100,000
ımotal	\$35,000	\$35,000	\$25,000	\$25,000	\$25,000	\$145,000

This request is revised from the prior year to add targeted funding for Eliot and Mitchell in FY20, spread the replacement of Pollard furniture in 'fair' condition over FY20 and FY21 (instead of just FY20), and defer new classroom furniture funding to FY21 and beyond.

				Capital Projec	t Request				
Project Title: Sc	hool Copiers						F	iscal Year:	2020
Purpose: Ac	quisition	Cla	ssification: Eq	uipment	Sta	itus:	Amended Request f	rom the Prior Cl	P
Department: Ne	edham Public Sc	hools			Sup	pports:	Public Education		
Partners: No	ne				Use	eful Life:	More than five (5) ye	ears but less thai	n eight (8) years
				<u>Parameters</u>					Respons
1. Are there any costs	to bid, design, co	onstruct, purchase, inst	all, implement, or o	therwise complete	the project which a	re NOT included	is this request?		No
2. Are there recomme	ndations or costs	identified by other de	partments which ar	e NOT factored into	o the request?				No
3. Does this project re	quire any permit	ting by any Town or Sta	ate agency?						No
4. If this request is for	Technology, has	the Department comm	nunicated with ITC,	and does ITC suppo	ort the request?				No
5. If this request is for	Building Improve	ements, has the Depart	ment communicate	ed with the Building	Maintenance (BM)	division, and do	es BM support the re	equest?	No
6. If funded, will additi	onal permanent	staff be required?					Total New FTE's:		No
7. If funded, will the o	perating budget	need to be increased to	cover operating ex	rpenses?					No
8. If funded, will this p	roject lower the	requesting Departmen	t's operating costs?						No
9. If funded, will this p	roject require or	going assistance from	vendors at an addit	ional expense to th	e Town which is NO	T already budge	ted?		No
10. If the project is NO	T funded, will cu	ırrent Town revenue be	e reduced?						No
11. Is specialized traini	ing or annual lice	ensing required that the	Town will need to	pay in order to use	the asset?				No
Is this a project for	which an Initial	Eligibility Project Appli	cation can be filed v	vith the Community	y Preservation Comn	nittee (CPC)?			No
13. Is this a request in	response to a Co	ourt, Federal, or State o	order?						No
14. Is this a request in	response to a do	ocumented public healt	h or safety condition	n?					No
15. Is this a request to	improve or mak	e repairs to extend the	useful life of a build	ding?					No
16. Is this a request to	purchase appara	atus/equipment that is	intended to be peri	manently installed	at the location of its	use?			No
17. Is this a request to	repair or otherw	vise improve public pro	perty which is NOT	a building or infras	tructure?				No
18. Will any other dep	artment be requ	ired to provide assistar	nce in order to comp	olete the project?					No
19. If funded, will this	· ·	the operating expense		rtment?					No
•		How was the Project C			dustry References				
Budget Impact: Ne	gligible impact o	n the annual operating	expenses less than	\$5,000					
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibility		\$0							
Design/Engineering		\$0							
and/ROW Acquisition	1	\$0							
Site Preparation		\$0							
Construction		\$0							
Construction Manager	ment	\$0							
Equipment		\$345,960	\$135,520	\$37,600	\$73,990	\$41,200	\$57,650		
Furniture, Fixtures, and		\$0							
Technology Hardware,	/Software	\$0							
Other Expenses		\$0							
TOTAL		\$345,960	\$135,520	\$37,600	\$73,990	\$41,200	\$57,650	\$	^

		Capital Project Request		
Project Title:	School Copiers		Fiscal Year:	2020

Project Description and Considerations

In May of 2003, Town Meeting authorized \$60,000 in first year funding to establish a replacement cycle for school photocopiers. School photocopiers are located in all the schools and the administration building, and are used both by administrative and teaching staff. Teachers use the machines to reproduce classroom materials, including homework sheets, exams, teaching packets etc. Currently the School Department owns 45 copy machines. The FY20-FY24 request replaces the following numbers of copy machines.

Fiscal Year	#of Copy Machines Replaced		
FY20 (Requested)	11	FY23 (Requested)	5
FY21 (Requested)	4	FY24 (Requested)	4
FY22 (Requested)	6		

Copier replacement is planned on a life-cycle basis, which projects when a copier should be replaced based on actual usage and the manufacturer's total estimated capacity. As a result, copiers which are heavily used, are replaced more frequently than copiers that are lightly used. An eight-year maximum is assumed for most machines (up from seven years in the prior CIP), even if they have not yet reached maximum copy allowances, given the additional operating expense associated with servicing and maintaining older equipment, as well as the difficulty in obtaining replacement parts. This analysis assumes that copiers can be re-deployed around the District as needed, to better match projected usage with equipment capacity.

This request is revised from the prior CIP to reflect updated life cycle calculations (based on copier usage and current condition), which have shifted replacement priorities in some cases. Notable trends from the previous capital plan include:

- * Heavier usage of copiers, District-wide. The FY20 request includes four copiers, which were previously programmed for replacement in later years, but which have been accelerated to FY20 based on heavy usage: Production Center Color Copier (@ 139% useful life in FY20), NHS Math/Science (@ 134%), NHS English/Social Studies (@ 130%), and Broadmeadow Teachers' Lounge (@ 145%.) Last year, we estimated the following FY20 usage rates and replacement years for these machines: Production 67% in FY20 and replaced in FY21; Math/Science 64% in FY20 and replaced in FY23; English/Social Studies @ 57% in FY20 and replaced in FY22; and Broadmeadow Teacher's Lounge at 59% in FY20 and replaced in FY21.
- * The need to replace older machines purchased in 2011 and 2012, which will be eight years old in FY20 and increasingly difficult to service. The FY20 request reflects the replacement of five smaller machines, previously programmed in out years, which have been moved to FY20: Broadmeadow ETC, NHS Health Office, NHS Bookkeeper Office, NHS Grade Level Office, and Science Center.

Building	Location	Make	Model	Purchase Year	FY20	FY21	FY22	FY23	FY24	FY20	FY21	FY22	FY23	FY24	Age at Repl'm't
Dullullig	Location	Wake	Wiodei	i cai	1 120	1 121	1 122	1 123	1 124	1 120	1 121	1 122	1 123	1 124	порини
Administration	2nd Floor	Konica	658E	2018	12%	23%	35%	47%	59%						
Administration	Production Center	Konica	KM1025	2015	126%	26%	52%	78%	104%	24,120				29,330	4
Administration	1st Floor	Konica	KM454E	2017	92%	104%	12%	25%	37%		5,840				3
Administration	Production Center	XEROX	D125	2012	10%	20%	31%	41%	51%						
Broadmeadow	Teachers' Lounge	Konica	KM 654 E	2014	145%	21%_	43%	64%	85%	13,690					Ę
Broadmeadow	Teachers' Room	Konica	KM 654 E	2014	49%	57%	66%	8%	16%			7,420			7
NHS	Main Office	Konica	KM 364E	2015	106%	111%	6%	11%	17%		5,840				5
Broadmeadow	ETC	XEROX	3550	2012	34%	4%	8%	12%	17%	2,040					7
NHS	Athletics	Konica	KM 454E	2016	57%	70%	84%	97%	111%					6,760	7
NHS	Math/Sci Rm 205	Konica	KM654E	2017	22%	32%_	43%	54%	65%						
NHS	World Lang 704	Konica	KM 654 e	2014	61%	81%	101%	20%	40%			12,130			7
NHS	Health Office 607	XEROX	WC3550 X	2012	9%	1%	2%	3%	3%	2,040					7
NHS	Bookkeeper Office	XEROX	WC3550 X	2012	55%	5%	11%	16%	21%	2,040					7

		Capital Project	t Request	
Project Title:	School Copiers		Fiscal Year:	2020

Supplemental Information

				Purchase											Age at
Building	Location	Make	Model	Year	FY20	FY21	FY22	FY23	FY24	FY20	FY21	FY22	FY23	FY24	Repl'm't
NHS	Music	Konica	KM 654 E	2016	28%	35%	43%	50%	57%						
NHS	College 503	Konica	KM 364 e	2014	49%	56%	62%	69%	4				6,440		
NHS	Media Center	Konica	KM 454 e	2014	34%	36%	39%	41%	4				6,440		
NHS	Sped 801	Konica	458E	2018	11%	23%	34%	45%	57%				,		
NHS	SS/English 703	Konica	KM 754 e	2014	97%	107%	118%	11%	21%			12,130			
NHS	Eng/SS	Konica	KM 754 e	2015	130%	25%	51%	25%	51%	Move from	Hillside	15,090			
NHS	Grade Level	XEROX	5775PT	2011	94%	2%	4%	6%	8%	5,560					
NHS	Math/Sci	Konica	KM 754 e	2015	134%	25%	50%	75%	101%	13,690					
Hillside	Main Office	XEROX	5755APT	2012	66%	13%	25%	38%	50%	Bldg Projec	t				
Hillside	Downstairs	XEROX	5765PT	2011	63%	6%	12%	18%	24%	Bldg Projec	t				
Hillside	Main Office	Konica	KM 754E	2014	108%	17%	35%	52%	69%	Bldg Projec	t				
Mitchell	Back Hallway	Konica	KM 654E	2017	18%	27%	35%	44%	53%						
Mitchell	Front Office	Konica	KM654E	2014	141%	163%	22%	45%	67%		14,370				
Newman	Front Office	XEROX	5775PT	2012	103%	10%	20%	29%	39%	6,730					
Newman	Hall Outside Office	Konica	KM 654 E	2016	65%	80%	96%	111%	16%				7,790		
Newman	Hallway Near Café	Konica	KM 654 E	2017	20%	29%	39%	49%	59%						
Newman	Down Stairs Hall	Konica	558E	2018	11%	22%	34%	45%	56%						
Science Center	Science Center	XEROX	3550X	2012	22%	2%_	5%	7%	9%	2,040					
Pollard	8th Grade Hallway	konica	KM 654 e	2015	97%	120%	143%	23%	46%			15,090			
Pollard	Modulars	Konica	KM 754 e	2014	32%	37%	42%	47%	5%				7,790		
Pollard	Main Office	Konica	KM 754E	2014	146%	16%	32%	49%	65%	13,690					
Pollard	7th Grade Work Area	Konica	KM654E	2014	105%	119%	14%	28%	43%		11,550				
Pollard	Teachers Lounge	Konica	KM454 E	2017	20%	30%	40%	50%	60%					8,180)
Pollard	Media Coin -OP	XEROX	3550	2012	13%	14%	15%	16%	18%						
High Rock	Room 207	Konica	KM 654E	2016	54%	67%	81%	94%	108%					13,380)
High Rock	Main Office	Konica	KM 754E	2014	90%	103%	117%	13%	26%			12,130			
Eliot	Main Office	Konica	KM754 E	2014	66%	76%	86%	96%	10%				12,740		
Eliot	Room 151	Konica	658E	2018	8%	17%	25%	33%	42%						
Eliot	Room 210	Konica	458E	2018	12%	23%	35%	47%	59%						
Kase- Cong. Church	Main Office	XEROX	WC3550 X	2012	54%	57%	60%	63%	66%						
Administration	Production Center/ Color	Xerox	Color 560	2014	139%	21%	43%	64%	85%	49,880					
Totals										135,520	37,600	73,990	41,200	57,650	1

				Capital Proj	ect Request					
Project Title: Ne	wman Preschoo	ol Playground Custo	m Shade Shelter	r				Fiscal Year:		2020
Purpose: Acc	quisition	Cla	ssification: Ec	quipment	!	Status:	Amended Reque	st from the Prior	CIP	
Department: Ne	edham Public Sch	ools			:	Supports:	Public Education			
Partners: Par	rks & Recreation;	DPW			1	Jseful Life:	Between eight (8	and twelve (12)	years	
				<u>Parameters</u>					<u> </u>	Response
L. Are there any costs	to bid, design, cor	nstruct, purchase, inst	all, implement, or	otherwise comple	ete the project which	are NOT inclu	ded is this request?		No	
2. Are there recommer	ndations or costs i	identified by other de	partments which a	re NOT factored i	into the request?				No	
3. Does this project red	quire any permitti	ng by any Town or Sta	ate agency?						Yes	
1. If this request is for	Technology, has t	he Department comm	nunicated with ITC,	and does ITC sup	port the request?				No	
5. If this request is for	Building Improver	nents, has the Depart	ment communicat	ed with the Build	ing Maintenance (BN	1) division, and	d does BM support the	e request?	No	
5. If funded, will additi	onal permanent s	taff be required?					Total New FTE's:		No	
7. If funded, will the op	perating budget ne	eed to be increased to	cover operating e	expenses?					No	
3. If funded, will this p	roject lower the re	equesting Departmen	t's operating costs?	?					No	
). If funded, will this p	roject require ong	oing assistance from	vendors at an addi	tional expense to	the Town which is N	IOT already bu	dgeted?		No	
LO. If the project is NO	T funded, will cur	rent Town revenue be	reduced?						No	
 Is specialized traini 	ing or annual licen	sing required that the	Town will need to	pay in order to ι	use the asset?				No	
2. Is this a project for	which an Initial E	ligibility Project Appli	cation can be filed	with the Commu	nity Preservation Co	nmittee (CPC)?)		No	
13. Is this a request in	response to a Cou	ırt, Federal, or State o	rder?						No	
14. Is this a request in	response to a doc	umented public healt	h or safety condition	on?					No	
15. Is this a request to	improve or make	repairs to extend the	useful life of a buil	lding?					No	
16. Is this a request to	purchase apparat	us/equipment that is	intended to be per	rmanently installe	ed at the location of	ts use?			Yes	
17. Is this a request to	repair or otherwi	se improve public pro	perty which is NO 1	r a building or infi	rastructure?				Yes	
18. Will any other depa	artment be requir	ed to provide assistar	ice in order to com	plete the project	?				Yes	
ا 19. If funded, will this!				rtment?					No	
,		low was the Project C			Hired Consultant					
Budget Impact: Ne	gligible impact on	the annual operating	expenses less than	n \$5,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisition	ı	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Managen	nent	\$0								
quipment		\$18,600	\$18,600							
Furniture, Fixtures, and		\$0								
Technology Hardware/	/Software	\$0								
Other Expenses		\$50,600	\$50,600							
TOTAL		\$69,200	\$69,200	\$0	\$0		\$0 \$	^	\$0	

	Capital Project Request		
Project Title:	Newman Preschool Playground Custom Shade Shelter	Fiscal Year:	2020

Project Description and Considerations

The Newman Preschool playground is situated in a part of the school that has constant sunlight. As a result, access to the playground is limited to cloudy days or to mild weather, given that there is no available shade on the playground and temperatures climb rapidly on sunny days. About half of the children who attend the preschool are identified as having special needs, and many struggle with their social-emotional skills. A custom shade shelter would increase the students' comfort and access to the playground, which in turn would create more meaningful social opportunities for them during their day. It is also worth noting that this impacts the program year round, as the preschool runs a summer program for students who require year-round special education services.

This request is for a custom shade shelter to be built over the center section of the playground. The quoted structure consists of five steel columns and three triangular 'sail style' canopy tops, of the type depicted in the picture below, which would be permanently installed in the preschool playground. This structure would provide the shade necessary for students and staff to remain outside during recess periods. The quoted purchase and installation cost is \$97,162, which is considerably higher than a previous estimate (of \$43,000 in 2017), due to the need for a certified installer. Offsetting revenue of \$40,000 can be contributed toward project costs from the current fund balance in the School Preschool Revolving Fund, for a net request of \$57,162 (2018 \$.) The estimated FY20 net cost of \$69,200 includes an annual inflation adjustment of 10% (per PPBC.) Permitting would be required.

The assistance of Parks & Recreation/DPW would be needed to bid the project.

Offsetting revenue of \$40,000 can be contributed toward project costs from the current fund balance in the School Preschool Revolving Fund.



PreK Custom Shade Shelter

Equipment	Installation	Total
26,162	71,000	97,162
(10,800)	(29,200)	(40,000)
15,362	41,800	57,162
27%	73%	100%
16,898	45,980	62,878
18,588	50,578	69,166
18,588	50,578	69,166
18,600	50,600	69,200
	26,162 (10,800) 15,362 27% 16,898 18,588 18,588	26,162 71,000 (10,800) (29,200) 15,362 41,800 27% 73% 16,898 45,980 18,588 50,578 18,588 50,578

				Capital Proj	ect Request					
Project Title:	NHS Athletic Lo	cker Reconfiguration 8	& Addition					Fiscal Year:		2020
urpose:	Acquisition	Cla	ssification: Eq	uipment		Status:	Amended Requ	est from the Prior	CIP	
epartment:	Needham Public S	Schools				Supports:	Public Education	1		
artners:	Public Facilities					Useful Life:	More than twen	ty-five (25) years		
				<u>Parameters</u>					<u>R</u>	esponse
. Are there any co	sts to bid, design,	construct, purchase, insta	all, implement, or o	therwise comple	ete the project wh	ich are NOT inclu	ded is this request?		No	
. Are there recom	mendations or cos	sts identified by other dep	partments which ar	e NOT factored i	into the request?				No	
. Does this projec	t require any perm	itting by any Town or Sta	ite agency?						No	
. If this request is	for Technology, ha	as the Department comm	unicated with ITC,	and does ITC sup	port the request?				No	
. If this request is	for Building Impro	vements, has the Depart	ment communicate	ed with the Build	ing Maintenance (BM) division, and	d does BM support th	ne request?	Yes	
. If funded, will ac	lditional permaner	nt staff be required?					Total New FTE's	:	No	
. If funded, will th	e operating budge	t need to be increased to	cover operating ex	kpenses?					No	
. If funded, will th	is project lower th	e requesting Department	t's operating costs?						No	
. If funded, will th	is project require o	ongoing assistance from v	vendors at an addit	ional expense to	the Town which is	s NOT already bu	dgeted?		No	
0. If the project is	NOT funded, will	current Town revenue be	reduced?						No	
1. Is specialized tr	aining or annual li	censing required that the	Town will need to	pay in order to ι	use the asset?				No	
2. Is this a project	for which an Initia	al Eligibility Project Applic	cation can be filed v	with the Commu	nity Preservation (Committee (CPC)?			No	
3. Is this a reques	t in response to a	Court, Federal, or State o	rder?						No	
4. Is this a reques	t in response to a	documented public healt	h or safety conditio	n?					No	
5. Is this a reques	t to improve or ma	ake repairs to extend the	useful life of a build	ding?					No	
6. Is this a reques	t to purchase appa	ratus/equipment that is	intended to be perr	manently installe	ed at the location o	of its use?			Yes	
7. Is this a reques	t to repair or othe	rwise improve public pro	perty which is NOT	a building or inf	rastructure?				No	
8. Will any other	department be req	uired to provide assistan	ce in order to comp	plete the project	?				Yes	
9. If funded, will t	his project increas	e the operating expense	for any other depar	rtment?					No	
roject Cost:	\$50,000	How was the Project Co	ost Determined:		Industry Reference	es				
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibilit	y	\$0								
esign/Engineering	3	\$0								
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Mana	igement	\$0								
quipment		\$50,000	\$50,000							
urniture, Fixtures,	and Equipment	\$0								
echnology Hardw	are/Software	\$0								
ther Expenses		\$0								
		\$50,000	\$50,000	\$0	\$(\$0	50	\$0	

	Capital Project Request		
Project Title:	NHS Athletic Locker Reconfiguration & Addition	Fiscal Year:	2020

Project Description and Considerations

This request proposes to reconfigure and increase the number of student physical education lockers at NHS, to accommodate the increased student population. Currently, there are 508 lockers at NHS (269 in the boys' locker room and 239 in the girls' locker room.) The project will add 111 lockers in the boys' locker room and 104 lockers in the girls' locker room, for a new grand total of 723.

Currently, each locker room has small, medium and large lockers. The reconfiguration would remove the doors and frames from the medium and large lockers, and would create three new, small lockers from every two medium lockers, and three new small lockers from every one large locker. (The existing small lockers would remain unchanged.) This reconfiguration would yield 81 new boy's lockers and 80 new girls' lockers. Additionally, a new bank of 30 lockers would be added in the boys' locker room, and 24 new lockers will be added in the girls' locker room.

This project was included in a prior CIP and aggregated for funding with the other components of the Needham High School renovation project. Unfortunately, due to project-related funding constraints, this portion of the project was dropped for future funding at a later date.

This request has been revised from the previous CIP to reflect the following cost escalator factors: 6%/year (FY16), 5.0%/year (FY17-18), and 10.0%/year (FY19-20,) based on PPBC advice. This request would allow for locker installation to occur during the summer of 2020, in preparation for a September 2020 (FY21) opening.

Parameters Addressed:

Building Improvements: The PFD Public Facilities Department supports this request. Permanent Installation: The lockers will be permanently installed in the building.

Other Departmental Assistance: PFD Public Facilities Department

NHS Locker Replacement 2015 Costs (Based on Vendor Estimate)

		Feasibilty	Construction*	A/E	5% Conting	Constr Mgnt	Total
	FY14 Project Cost (D&W)		33,705		1,685		35,390
	TOTAL	-	33,705	-	1,685	-	35,390
		0%	95%	0%	5%	0%	100%
6.00%	FY16 Cost Multiplier	-	35,727	-	1,786	-	37,514
5.00%	FY17 Cost Multiplier	-	37,514	-	1,876	-	39,389
5.00%	FY18 Cost Multiplier	-	39,389	-	1,969	-	41,359
10.00%	FY19 Cost Multiplier	-	43,328	-	2,166	-	45,495
10.00%	FY20 Cost Multiplier	=	47,661	<u>-</u>	2,383		50,044
5 Ye	ears TOTAL PROJECT COST	-	47,661	-	2,383	-	50,044
	TOTAL COST (ROUNDED)	-	47,700	-	2,400	-	50,000

				Capital Pro	ject Request					
Project Title:	School Docume	nt Management Syst	em					Fiscal Year:		
Purpose:	Acquisition	CI	assification:	Technology		Status:	Amended Request	from the Prior CIP		
Department:	Needham Public S	Schools				Supports:	Public Education			
Partners:						Useful Life:	More than five (5)	years but less than	eight (8)	years
				<u>Parameters</u>					Re	sponse_
1. Are there any co	sts to bid, design,	construct, purchase, ins	stall, implemen	t, or otherwise comp	ete the project whic	h are NOT included	d is this request?		No	
2. Are there recom	mendations or cos	ts identified by other d	epartments wh	ich are NOT factored	into the request?				No	
3. Does this project	t require any perm	itting by any Town or S	tate agency?						No	
4. If this request is	for Technology, ha	s the Department com	municated with	n ITC, and does ITC su	pport the request?				Yes	
5. If this request is	for Building Impro	vements, has the Depa	rtment commu	nicated with the Build	ling Maintenance (B	M) division, and do	oes BM support the r	request?	No	
6. If funded, will ad	lditional permaner	it staff be required?					Total New FTE's:		No	
7. If funded, will th	e operating budge	t need to be increased	to cover operat	ting expenses?					No	
8. If funded, will th	is project lower th	e requesting Departme	nt's operating o	costs?					No	
9. If funded, will th	is project require o	ongoing assistance from	vendors at an	additional expense to	the Town which is	NOT already budge	eted?		No	
10. If the project is	NOT funded, will o	current Town revenue b	e reduced?						No	
11. Is specialized t	aining or annual li	censing required that th	ne Town will ne	ed to pay in order to	use the asset?				No	
12. Is this a project	for which an Initia	l Eligibility Project App	lication can be	filed with the Commu	ınity Preservation Co	mmittee (CPC)?			No	
13. Is this a reques	t in response to a (Court, Federal, or State	order?						No	
14. Is this a reques	t in response to a	documented public hea	Ith or safety co	ndition?					No	
15. Is this a reques	t to improve or ma	ke repairs to extend th	e useful life of a	a building?					No	
16. Is this a reques	t to purchase appa	ratus/equipment that i	s intended to b	e permanently install	ed at the location of	its use?			No	
17. Is this a reques	t to repair or other	wise improve public pr	operty which is	NOT a building or in	frastructure?				No	
18. Will any other	department be req	uired to provide assista	ince in order to	complete the projec	t?				No	
19. If funded, will t	his project increas	e the operating expense	e for any other	department?					No	
Project Cost:	\$187,700	How was the Project	Cost Determine	ed:						
Budget Impact:										
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit	у	\$0								
Design/Engineerin	g	\$0								
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	agement	\$0								
Equipment		\$187,700			\$187,700					
Furniture, Fixtures	, and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$187,700	\$	50 \$0	\$187,700	\$0	\$0	\$0		\$0
\$0										FY2020

Capital Project Request Project Title: **School Document Management System Fiscal Year:**

Project Description and Considerations

This is a request to purchase and implement a document management system for the efficient storage and retrieval of school documents, including student files, financial and administrative information. The acquisition cost also includes the cost to covert existing paper-based records to electronic format.

The document management system provides electronic storage and retrieval, automated document indexing and networked access for group workflow and email capability. The acquisition cost is based on a 2015 purchase estimate of \$32,000 and \$125,000 cost of document conversion, escalated at a cost of 3%/year. The document conversion cost is based on approximately 856 cubic feet of documents (Human Resources, Special Education) and is phased over two years.

Project timing based on planned renovation/reconstruction of Emery Grover School Administration Building, and the anticipated move of staff to temporary swing space in August 2022 (FY23). The project is timed precede the relocation of staff to swing space in FY22. The project is revised from the prior year to defer funding from FY20 to FY22, based on the revised Emery Grover construction schedule.

Parameters Addressed:

Technology: The School Instructional Technology Department is in support of this request.	

					Capi	tal Project	Request			
ject Title:	School Document Ma	nagemen	t System							Fiscal Year:
	•		-		Supp	lemental Inf	ormation	·	•	
	Document@Management@	Purchase ® ®	Document ⊡ Co	nversionŒxpe	nse					
				0.11						
	Emery © rover		#3Cabinets	Cubic	Calculated	Calculated	Box@Pickup	Scanning	Total	
	ActiveFiles Human®Resources	<u>Small⊒1)</u> 3	Large (12)	Feet	#Boxes	<u>Pages</u>	Service 3	Service	Cost	
		0			7777777777 60				77777774 5,435	
	Financial Dperations			?????????????	????????	777777777777777777777777777777777777777	????????	?????????	?????????	
	Payroll	0		?????????????	???????????	777777777777777777777777777777777777777	??????????	???????????	?????????????	
	Food Service	0		???????????????	??????????	**************************************	?????????	**************************************	**************************************	
	Special Education	<u>24</u>		<u>???????544</u>		201,333	???????	*********** 8,087	********** 9,220	
	™ ubtotal	27	20	*************************************	77777777777 13	77771 ,890,333	777777711 ,783	mm122,872	24,655	
	<u>Other⊞iles</u>									
	Financial D perations	<u>0</u>	<u>0</u>	????????	? ???????? ?	???????????????	?********	?????????????	?************	Assume@major@torage@s@V
	西ubtotal	0	0	??????????????	????????????	?????????????	???????????	777777777777777777777777777777777777777	???????????	
	Grand⊡otal	27	20	777777778 56	777777 13	7777 ,890,333	7777777777777777777777777777777777777	777777 122,872	24,655	–
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	逐Œscalation	FY22	3%		*************************************	7777771 49,400	####1.87,700 ##################################	Conversion (2)	ear⊞⊮rior≣toßA	.ug@23Move&o\$wing\$pace

				Capital Projec	t Request						
Project Title: Sch	nool Department	Геchnology Re	quest				Fi	iscal Year:			
Purpose: Acc	quisition		Classification: Te	chnology	St	atus:	Amended Request fr	om the Prior Cl	P		
Department: Ne	edham Public Schoo	ls	•		Su	ipports:	Public Education				
Partners:					U	seful Life:	More than five (5) ye	ars but less tha	n eight (8) years		
				<u>Parameters</u>					Response		
L. Are there any costs t	to bid, design, const	ruct, purchase, i	nstall, implement, or o	therwise complete	the project which a	are NOT include	d is this request?		No		
. Are there recommer	ndations or costs ide	ntified by other	departments which ar	e NOT factored int	to the request?				No		
B. Does this project red	quire any permitting	by any Town or	State agency?						No		
I. If this request is for	Technology, has the	Department cor	nmunicated with ITC,	and does ITC suppo	ort the request?				Yes		
. If this request is for	Building Improveme	nts, has the Dep	artment communicate	ed with the Building	g Maintenance (BM)	division, and d	oes BM support the red	quest?	No		
i. If funded, will addition	onal permanent staf	f be required?					Total New FTE's:		No		
. If funded, will the op	perating budget need	d to be increased	d to cover operating ex	kpenses?					No		
. If funded, will this pr	oject lower the requ	uesting Departm	ent's operating costs?						No		
. If funded, will this pr	oject require ongoir	ng assistance fro	m vendors at an addit	ional expense to th	ne Town which is NO	T already budge	eted?		No		
0. If the project is NO	T funded, will currer	nt Town revenue	be reduced?						No		
.1. Is specialized traini	ng or annual licensir	ng required that	the Town will need to	pay in order to use	e the asset?				No		
2. Is this a project for	which an Initial Eligi	bility Project Ap	plication can be filed v	with the Communit	y Preservation Com	mittee (CPC)?			No		
3. Is this a request in	response to a Court,	Federal, or Stat	e order?						No		
4. Is this a request in	response to a docun	nented public he	alth or safety condition	n?					No		
5. Is this a request to	improve or make re	pairs to extend t	he useful life of a buil	ding?					No		
.6. Is this a request to	purchase apparatus,	equipment that	is intended to be per	manently installed	at the location of its	s use?			No		
7. Is this a request to	repair or otherwise	improve public p	property which is NOT	a building or infras	structure?				No		
.8. Will any other depa	artment be required	to provide assis	tance in order to com	plete the project?					No		
9. If funded, will this ب	project increase the	operating exper	se for any other depa	rtment?					No		
roject Cost: \$2,	496,825 Hov	v was the Projec	t Cost Determined:	In	-House Estimate						
Budget Impact: Neg	gligible impact on th	e annual operat	ing expenses less than	\$5,000							
Project Budget	Elements Pr	oject Budget	2020	2021	2022	2023	2024	2025	2026		
Planning/Feasibility		\$0									
Design/Engineering		\$0									
and/ROW Acquisition		\$0									
ite Preparation		\$0									
onstruction		\$0									
onstruction Managen	nent	\$0									
quipment		\$0									
urniture, Fixtures, and	d Equipment	\$0									
echnology Hardware/	'Software	\$2,496,825	\$632,350	\$556,575	\$490,150	\$422,000	\$395,750				
Other Expenses		\$0									
TOTAL		\$2,496,825	\$632,350	\$556,575	\$490,150	\$422,000	\$395,750	\$			

\$0 FY2020

		Capital Project Request
Project Title:	School Department Technology Request	Fiscal Year:

Project Description and Considerations

The FY20-24 CIP request funds the purchase of School Department technology, including desktop computers, printers, interactive white boards (IWBs), specialized instructional labs, projectors, video displays, security cameras and electronic door access controllers. The request also incorporates funding for school technology infrastructure, which consists of servers, network hardware, wireless infrastructure, data cabling and access points. This request reflects the School Department's clasroom technology standard and the decision in FY17 to move devices with a lifespan of less than five years (Digital Learning Devices, or DLDs, and staff laptops) to the operating budget. A chart summarizing the five-year (FY20-24) request is included on the next page.

The FY20-24 Capital Improvement Plan (CIP) for school technology totals \$2,496,825 and includes \$1,931,825 for school hardware replacement and \$565,000 for school technology infrastructure. Highlights of the FY20-24 CIP include:

- * \$90,000 for the purchase of IWB's for Kindergarten classrooms throughout the District, timed to coincide with the implementation of Full-Day Kindergarten in FY20. This component was included in the prior year's CIP plan.
- * \$56,000 to provide additional electronic key door access controllers at Broadmeadow Elementary School (4), Eliot Elementary School (2), Pollard Middle School (2), Needham High School (4) and Emery Grover (4.) This is a new component of the school technology capital plan and is needed to maintain secure access to our school buildings by eliminating the security risk that is

introduced by the current

practice of propping doors open.

* The reallocation of \$60,000 in funds previously budgeted at the Hillside School (and now not needed due to the Sunita Williams construction project) toward other technology needs, including the

installation of a large screen projector in the Eliot Performance Center (\$28,000) and the replacement of the High School TV studio (\$30,000.)

The FY20 request is for \$632,350, an increase of \$66,250 from the FY20 projection included in the FY19-23 CIP. The \$632,350 total request includes \$519,350 for hardware and \$113,000 for infrastructure replacement. While the infrastructure component is unchanged from the prior CIP, the hardware replacement component increases \$66,250 to meet the following needs:

- * Reallocate \$17,750 from Hillside desktop computer and printer replacement toward the purchase of the large screen projector in the Eliot Performance Center (\$28,000), mentioned above.
- * Reallocate \$8,100 formerly budgeted for computer lab replacement at Pollard to the purchase of hard drives for Pollard lab computers.
- * Install \$56,000 in new electronic key door access controllers at Broadmeadow Elementary School (4), Eliot Elementary School (2), Pollard Middle School (2), Needham High School (4) and Emery

Grover (4), described above.

The FY20-24 CIP increases \$446,200 over the prior CIP, to add a new fifth year to the plan (@ \$395,750) and provide \$50,450 in net new funding during the first four years for electronic door access controllers (\$56,000.) As noted above, \$60,000 in funds previously allocated for Hillside hardware replacement were allocated toward the installation of a large screen projector in the Eliot Performance Center (\$28,000) and the replacement of the High School TV studio (\$30,000.) A summary of changes from the prior year is presented on the next page.

		al Project Request
Project Title:	School Department Technology Request	Fiscal Year:

Supplemental Information

Summary All Hardware (Including New Requests)	FY20 Prior	FY20 New	FY20 Change	FY21 Prior	FY21 New	FY21 Change	FY22 Prior	FY22 New	FY22 Change	FY23 Prior	FY23 New	FY23 Change	FY24 New	FY20-24 Total
and the state of t			211		11011			11011			11011			1 0 0000
Lab Computers	54,100	46,000	(8,100)	202,500	202,500	-	162,000	162,000	-	202,500	162,000	(40,500)	40,500	613,000
Science Lab Computers	54,000	54,000	-	-	-	-	-	-	-	-	-	-	-	54,00
TV Studio Computers	30,000	-	(30,000)	30,000	-	(30,000)	30,000	-	(30,000)	-	36,000	36,000	-	36,00
Graphics Lab Computers	-	-	-	-	-	-	-	-	- 1	-	-	-	44,000	44,00
Destop Computers	123,000	108,000	(15,000)	108,000	106,500	(1,500)	22,500	21,000	(1,500)	22,500	21,000	(1,500)	21,000	277,500
Printers	22,000	19,250	(2,750)	22,825	20,075	(2,750)	42,700	37,650	(5,050)	-	-	-	-	76,97
IWB - Gr 1-12	80,000	80,000	- 1	80,000	80,000	- 1	110,000	110,000	- 1	90,000	90,000	-	80,000	440,000
IWB - Kindergarten	90,000	90,000	-	-	_	-	-	_	-	-	-	-	-	90,00
Door Access Controllers	-	56,000	56,000	-	-	-	-	-	-	-	-	-	-	56,00
Gym/ Performance Center Projection /Screen	-	28,000	28,000	-	-	-	-	-	-	-	-	-	18,000	46,00
Hard Drives for Pollard Lab Computers	-	8,100	8,100	-	-	-	-	-	-	-	-	-	-	8,100
NHS TV Studio	-	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	-	-	30,000	120,000
Security Cameras	-	-	-	-	4,500	4,500	20,000	16,500	(3,500)	-	-	-	49,250	70,25
Subtotal	453,100	519,350	66,250	443,325	443,575	250	387,200	377,150	(10,050)	315,000	309,000	(6,000)	282,750	1,931,82
Summary	FY20	FY20	FY20	FY21	FY21	FY21	FY22	FY22	FY22	FY23	FY23	FY23	FY24	FY20-24
Infrastructure	Prior	New	Change	New	Total									
Servers	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	30,000	30,000	-	30,000	150,000
Network Hardware	20,000	20,000	-	20,000	20,000	-	20,000	20,000	-	20,000	20,000	-	20,000	100,000
Wireless Infra. Data Cabling	5,000	5,000	-	5,000	5,000	-	5,000	5,000	-	5,000	5,000	-	5,000	25,00
Wireless Infra. Access Points	58,000	58,000	<u>-</u>	58,000	58,000		58,000	58,000		58,000	58,000	<u>-</u>	58,000	290,000
Subtotal	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	113,000	-	113,000	565,00
Summary	FY20	FY20	FY20	FY21	FY21	FY21	FY22	FY22	FY22	FY23	FY23	FY23	FY24	FY20-24
Grand Total	Prior	New	Change	New	Total									
Hardware	453,100	519,350	66,250	443,325	443,575	250	387,200	377,150	(10,050)	315,000	309,000	(6,000)	282,750	1,931,82
<u>Infrastructure</u>	113,000	113,000	<u>-</u>	113,000	113,000		113,000	113,000		113,000	113,000		113,000	565,00

				Capital Proje	ect Request					
roject Title: N	Needs Assessm	ent of Pollard, Newma	an and NHS Audit	orium Theatrica	al Sound and Ligh	ting Systems		Fiscal Year:		2020
urpose:	Construction	Cla	ssification: Eq	uipment	!	Status:	New Request			
Department:	Needham Public S	chools			!	Supports:	Public Education			
artners:						Jseful Life:	Between eight (8)	and twelve (12)	years	
				<u>Parameters</u>					<u>R</u>	esponse
. Are there any cost	ts to bid, design, (construct, purchase, inst	all, implement, or o	therwise complet	te the project which	are NOT includ	led is this request?		No	
. Are there recomm	nendations or cos	ts identified by other de	partments which ar	e NOT factored in	nto the request?				No	
. Does this project i	require any perm	itting by any Town or Sta	ate agency?						No	
. If this request is fo	or Technology, ha	s the Department comm	unicated with ITC,	and does ITC supp	oort the request?				Yes	
. If this request is fo	or Building Impro	vements, has the Depart	ment communicate	d with the Buildir	ng Maintenance (BN	Λ) division, and	does BM support the	e request?	No	
. If funded, will add	litional permanen	t staff be required?					Total New FTE's:		No	
. If funded, will the	operating budge	t need to be increased to	cover operating ex	rpenses?					No	
. If funded, will this	project lower the	e requesting Department	t's operating costs?						No	
. If funded, will this	project require o	ongoing assistance from	vendors at an addit	ional expense to t	the Town which is N	IOT already bud	geted?		No	
0. If the project is N	IOT funded, will d	current Town revenue be	reduced?						No	
1. Is specialized tra	ining or annual lic	censing required that the	Town will need to	pay in order to us	se the asset?				No	
2. Is this a project f	or which an Initia	l Eligibility Project Applic	cation can be filed v	vith the Commun	ity Preservation Co	mmittee (CPC)?			No	
3. Is this a request i	in response to a (Court, Federal, or State o	rder?						No	
		documented public healt							No	
5. Is this a request	to improve or ma	ke repairs to extend the	useful life of a build	ding?					No	
.6. Is this a request	to purchase appa	ratus/equipment that is	intended to be peri	manently installed	d at the location of	its use?			No	
.7. Is this a request	to repair or other	wise improve public pro	perty which is NOT	a building or infra	astructure?				No	
8. Will any other de	epartment be req	uired to provide assistan	ice in order to comp	olete the project?					Yes	
9. If funded, will th	is project increase	e the operating expense		rtment?					No	
,	660,000	How was the Project C			n-House Estimate					
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
Project Budge	et Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisition	on	\$0								
ite Preparation		\$0								
Construction		\$0								
onstruction Manag	ement	\$0								
quipment		\$60,000	\$60,000							
urniture, Fixtures, a		\$0								
echnology Hardwai	re/Software	\$0								
Other Expenses		\$0								
		\$60,000	\$60,000	\$0	\$0		\$0 \$(_	\$0	

	Capital Project Request		
Project Title:	Needs Assessment of Pollard, Newman and NHS Auditorium Theatrical Sound and Lighting Systems	Fiscal Year:	2020

Project Description and Considerations

This project is to conduct a needs assessment/ feasibility study of upgrading the theatrical sound and lighting systems in the Pollard, Newman and Needham High School (NHS)Auditoriums. These auditoriums are venues for student and community group productions. The theatrical equipment currently installed in these venues, however, is old and not adequate for contemporary musical or theatrical productions. Although some issues are unique to particular venues, some common deficiencies in the audio systems include:

- * speakers, which are poorly placed, insufficient in number and/or non-functioning, thereby impairing the audience's ability to hear what is happening clearly on stage from all seats.
- * sound boards, which are old (analog), partially non-functioning and/or not at a standard that is necessary for a modern musical or theatrical production.
- * amplification equipment (such as wireless receivers and microphones), which are insufficient in number and/or broken.

The lighting systems also include light fixtures that are partially non-functioning, and uncoordinated with sound delivery.

Although the need and vision for these spaces has not yet been fully assessed, school parents and community groups already have engaged in fundraising for equipment upgrades. Pollard parents have written a Needham Education Foundation (NEF) grant and received community donations to obtain funding for lighting system upgrades in the Pollard Auditorium, the component parts of which are expected to cost approximately \$15,000. This portion of the project will be undertaken in FY19 from grant and donated funds, leaving the audio system upgrades for a future funding year. Other groups have discussed fundraising for the NHS Auditorium as well.

This study would be important for informing future fundraising and directing capital planning efforts for these spaces.

Parameters:

Technology: The School Technology Department supports this request.

Departmental Assistance: PPBC

	Capital Project Request		
Project Title:	Needs Assessment of Pollard, Newman and NHS Auditorium Theatrical Sound and Lighting Systems	Fiscal Year:	2020

Supplemental Information

	Auditorium A/V Upgrade						
	NA	Equipment & Install	Less NEF Grant	Less Local Donations	NET CIP	Equipment & Install	Equipment & Install
	2018 Pollard Auditorium A/V System Upgrade 2018 Newman Auditorium A/V System Upgrade	194,000	9,032	4,505	180,463	203,000	
	2018 NHS Auditorium A/V System Upgrade	-	-	-	-	-	162,000
	TOTAL	194,000	9,032	4,505	180,463	203,000	162,000
5.00%	FY20 Cost Multiplier	203,700	9,032	4,505	190,163	213,150	170,100
5.00%	FY21 Cost Multiplier	213,885	9,032	4,505	200,348	223,808	178,605
5.00%	FY22 Cost Multiplier					234,998	187,535
5.00%	FY23 Cost Multiplier	-	<u> </u>	<u> </u>	<u>-</u>	<u>=</u>	196,912
	TOTAL PROJECT COST	213,885	9,032	4,505	200,348	234,998	196,912
	TOTAL COST (ROUNDED)	213,900	9,000	4,500	200,300	235,000	196,900

				Capital Pr	oject Request					
Project Title:	DPW Complex					_		Fiscal Year:	2	2020
Purpose:	Design/Engineerin	g	lassification:	Building		Status:	Amended Request	from the Prior CIP		
Department:	Public Works - High	nway				Supports:	Other (see below fo	r information)		
Partners:	PPBC					Useful Life:	More than twenty-f	ive (25) years		
				<u>Parameters</u>					Res	sponse
		onstruct, purchase, in				h are NOT included	is this request?		No	
2. Are there recom	mendations or costs	s identified by other d	epartments whi	ch are NOT factore	d into the request?				Yes	
3. Does this project	t require any permit	ting by any Town or S	tate agency?						Yes	
4. If this request is	for Technology, has	the Department com	municated with	ITC, and does ITC s	upport the request?				Yes	
5. If this request is	for Building Improve	ements, has the Depa	rtment commun	icated with the Bui	ding Maintenance (BI	M) division, and do	es BM support the re	quest?	Yes	
6. If funded, will ac	lditional permanent	staff be required?					Total New FTE's:	1.5	Yes	
7. If funded, will th	e operating budget	need to be increased	to cover operati	ng expenses?					Yes	
8. If funded, will th	is project lower the	requesting Departme	nt's operating co	osts?					No	
9. If funded, will th	is project require or	ngoing assistance from	vendors at an a	additional expense	o the Town which is I	NOT already budget	ed?		No	
10. If the project is	NOT funded, will cu	ırrent Town revenue l	e reduced?						No	
11. Is specialized tr	aining or annual lice	ensing required that th	ne Town will nee	ed to pay in order to	use the asset?				No	
12. Is this a project	for which an Initial	Eligibility Project App	ication can be fi	led with the Comm	unity Preservation Co	mmittee (CPC)?			No	
13. Is this a reques	t in response to a Co	ourt, Federal, or State	order?						No	
14. Is this a reques	t in response to a do	cumented public hea	lth or safety con	dition?					No	
15. Is this a reques	t to improve or mak	e repairs to extend th	e useful life of a	building?					Yes	
16. Is this a reques	t to purchase appara	atus/equipment that i	s intended to be	permanently insta	led at the location of	its use?			No	
17. Is this a reques	t to repair or otherw	vise improve public pr	operty which is	NOT a building or ir	frastructure?				No	
18. Will any other	department be requ	ired to provide assista	ince in order to	complete the proje	ct?				Yes	
19. If funded, will t	his project increase	the operating expens	e for any other o	department?					No	
Project Cost:	\$40,441,000	How was the Project	Cost Determine	d:	Hired Consultant					
Budget Impact:	May increase annu	al operating expenses	between \$5,00	1 and \$25,000						
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2	2026
Planning/Feasibility	/	\$0								
Design/Engineering	3	\$3,062,000	\$3,062,00	0						
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$37,379,000			\$37,379,000					
Construction Mana	gement	\$0								
Equipment		\$0								
Furniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$40,441,000	\$3,062,00	0 \$	0 \$37,379,000	\$0	\$0	\$0		\$0
\$0										FY2020

		Capital Project Request		
Project Title:	DPW Complex		Fiscal Year:	2020
	-	Project Description and Considerations		

Project Summary

- The current DPW Operations Building at 470 Dedham Avenue is over 50 years old. To continue using this facility, the major building systems including electrical, plumbing, and HVAC require replacement as well as a structural upgrade for seismic events. Deficiencies exist throughout the building and the DPW site. The poor condition of the current building, unmet equipment and vehicle storage, and stormwater quality issues require a solution. Ultimately, the expansion and renovation of the DPW Operations Building and site will be required to address the need for stormwater quality mitigation as well as storage and maintenance considerations.
- In FY15, Town Meeting approved funding for a feasibility study for the appropriate location(s) for a facility to provide various DPW services. Weston & Sampson completed this study in October of 2016, which evaluated the current facility program needs and options for the location of various DPW operations. The Weston & Sampson study determined that the full garage needs could not be met on the existing site. It concluded the project should be implemented in three phases. The final result will address the needs of a modernized DPW facility and organization, including providing shelter for Town equipment which will increase the service life, and resolve any existing stormwater and wastewater management issues at the current location.

Phase I – Temporary Fuel Island - Completed

Phase II – Seasonal Storage Building – In Progress

Phase III A - Public Works Facility (North)

Phase III B - Public Works Facility (South)

Changes from Prior Year Submission

Escalation rates increased to 8% because of current economic conditions and tariffs.

Clarification of Questions

This request supports culture and leisure, public safety, transportation network, and utilities.

- 2. There are costs for technology, maintenance, etc. that may not be included in this request.
- 3. Conservation Commission and Building permitting may be required.
- 4. Technology will be necessary for a DPW Facility.
- 5. This request is for a DPW Facility.
- 6. It may facilitate the addition of maintenance staff.
- 7. There may be additional expenses to maintain the building.
- 15. This will be to extend the useful life of the DPW Facility.
- 18. This will require input from all fuel users, technology, facilities construction, and Building Maintenance.

				Capital Proje	ct Request					
roject Title:	Jpgrade Boiler	#1 at Hillside						Fiscal Year:		2020
urpose:	Design/Engineeri	ng C	lassification: Bu	ilding	!	Status:	Amended Re	equest from the Pric	or CIP	
epartment:	Public Works - Bui	ilding Maintenance	•		:	Supports:	Other (see b	elow for information	า)	
artners:	School Departmer	nt				Jseful Life:	More than to	wenty-five (25) year:	<u> </u>	
				<u>Parameters</u>						Response
. Are there any cos	ts to bid, design, o	construct, purchase, ins	stall, implement, or o	therwise complete	e the project which	are NOT includ	led is this reques	t?	No	
Are there recomm	nendations or cos	ts identified by other d	epartments which ar	e NOT factored in	to the request?				No	
Does this project	require any permi	itting by any Town or S	tate agency?						Yes	
. If this request is fo	or Technology, ha	s the Department comi	municated with ITC, a	and does ITC supp	ort the request?				No	
If this request is fo	or Building Improv	vements, has the Depar	tment communicate	d with the Buildin	g Maintenance (BM	l) division, and	does BM suppor	t the request?	Yes	
If funded, will add	litional permanen	t staff be required?					Total New F	TE's: 0	No	
If funded, will the	operating budget	t need to be increased t	to cover operating ex	rpenses?			•	·	No	
. If funded, will this	project lower the	e requesting Departmen	nt's operating costs?						No	
If funded, will this	project require o	ongoing assistance from	vendors at an additi	ional expense to th	ne Town which is N	OT already bud	geted?		No	
). If the project is N	NOT funded, will o	current Town revenue b	e reduced?						No	
1. Is specialized tra	ining or annual lic	censing required that th	e Town will need to	pay in order to use	e the asset?				No	
2. Is this a project f	or which an Initia	l Eligibility Project Appl	ication can be filed w	vith the Communit	y Preservation Con	nmittee (CPC)?			No	
3. Is this a request	in response to a C	Court, Federal, or State	order?						No	
4. Is this a request	in response to a d	locumented public heal	th or safety conditio	n?					No	
5. Is this a request	to improve or ma	ke repairs to extend the	e useful life of a build	ling?					Yes	
6. Is this a request	to purchase appa	ratus/equipment that is	s intended to be perr	nanently installed	at the location of it	s use?			Yes	
7. Is this a request	to repair or other	wise improve public pro	operty which is NOT	a building or infra	structure?				No	
8. Will any other de	epartment be req	uired to provide assista	nce in order to comp	lete the project?					Yes	
9. If funded, will th	is project increase	e the operating expense	e for any other depar	tment?					No	
roject Cost:	232,000	How was the Project	Cost Determined:	I	ndustry References					
udget Impact:	Negligible impact	on the annual operatin	g expenses less than	\$5,000						
Project Budge	et Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility		\$0								
esign/Engineering		\$12,000	\$12,000							
and/ROW Acquisiti	on	\$0								
te Preparation		\$0								
onstruction		\$220,000		\$220,000						
onstruction Manag	ement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
echnology Hardwa	re/Software	\$0								
ther Expenses		\$0								
		\$232,000	\$12,000	\$220,000	\$0		\$0	\$0	\$0	

	Capit	Project Request	
Project Title:	Upgrade Boiler #1 at Hillside	Fiscal Year: 2020	

Project Description and Considerations

Project Summary

- The Hillside School currently has two cast iron boilers to heat the building. Boiler #1 has a leak that needs to be repaired. The existing boilers were installed during the renovation in 1998 and are at their 20 year life cycle. A study conducted in 2011 indicated that they should only last for a few more years without major issues. Due to the age of the boilers, many of the parts necessary for continued maintenance are no longer manufactured, so repairing the boilers is becoming increasingly more difficult. Even though the student population of the Hillside will be moving to the new Williams School, the building will still be in regular use as a swing space. The boilers are still necessary to prevent the building from freezing and causing major damage.
- Boiler #1 will be removed and taken apart. The salvageable parts will be kept to provide spare parts for Boiler #2. Boiler #1 will be replaced with a high efficiency condenscing boiler.

Changes from Prior Year Submission

• FY 20 costs increased by \$1,000 based on revised estimate for design.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 3. This request will require a Building Permit.
- 5. This is a Building Maintenance request.
- 15. Upgrading the boiler will help to keep the building in use in the future.
- 16. The boiler will be permanently installed at the school.
- 18. Assistance from the School Department will be required.

				Capital Proj	ect Request					
Project Title: Po	ollard Locker Room Re	trofit						Fiscal Year:		2021
Purpose: De	sign/Engineering		Classification: Buil	ding		Status:	Amended Req	uest from the Prior	CIP	
Department: Pu	blic Works - Building Ma	ntenance	•			Supports:	Other (see bel	ow for information)		
Partners: Ne	edham Public Schools					Useful Life:	More than two	enty-five (25) years		
•				Parameters			•			Response
1. Are there any costs	to bid, design, construct	purchase, ir	nstall, implement, or ot	herwise comple	ete the project which	n are NOT includ	ed is this request?		No	
2. Are there recomme	ndations or costs identifi	ed by other	departments which are	NOT factored i	nto the request?				No	
3. Does this project re	quire any permitting by a	ny Town or	State agency?						Yes	
4. If this request is for	Technology, has the Dep	artment con	nmunicated with ITC, a	nd does ITC sup	port the request?				No	
5. If this request is for	Building Improvements,	has the Depa	artment communicated	l with the Buildi	ng Maintenance (BN	Л) division, and	does BM support	the request?	Yes	
6. If funded, will additi	ional permanent staff be	required?					Total New FTE	E' s: 0	No	
7. If funded, will the o	perating budget need to	be increased	I to cover operating exp	enses?					No	
8. If funded, will this p	roject lower the request	ng Departme	ent's operating costs?						No	
9. If funded, will this p	roject require ongoing as	sistance froi	m vendors at an additio	nal expense to	the Town which is N	IOT already bud	geted?		No	
10. If the project is NO	T funded, will current To	wn revenue	be reduced?						No	
11. Is specialized train	ing or annual licensing re	quired that t	the Town will need to p	ay in order to u	se the asset?				No	
12. Is this a project for	which an Initial Eligibilit	y Project App	olication can be filed wi	th the Commur	nity Preservation Co	mmittee (CPC)?			No	
13. Is this a request in	response to a Court, Fed	eral, or State	e order?						No	
14. Is this a request in	response to a document	ed public hea	alth or safety condition	?					No	
15. Is this a request to	improve or make repairs	to extend tl	he useful life of a buildi	ng?					Yes	
16. Is this a request to	purchase apparatus/equ	ipment that	is intended to be perm	anently installe	d at the location of	ts use?			Yes	
17. Is this a request to	repair or otherwise imp	ove public p	roperty which is NOT a	building or infr	astructure?				No	
18. Will any other dep	artment be required to p	rovide assist	tance in order to compl	ete the project?	?				Yes	
19. If funded, will this	project increase the ope	rating expens	se for any other depart	ment?					No	
Project Cost: \$6	90,000 How wa	s the Projec	t Cost Determined:		Industry Reference	5				
Budget Impact: Ne	gligible impact on the ar	nual operati	ng expenses less than \$	55,000						
Project Budget	Elements Proje	ct Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$60,000		\$60,000						
Land/ROW Acquisition	ı	\$0								
Site Preparation		\$0								
Construction		\$630,000			\$630,000					
Construction Manager	ment	\$0								
Equipment		\$0								
Furniture, Fixtures, and	d Equipment	\$0								
Technology Hardware,	/Software	\$0								
Other Expenses		\$0								
TOTAL		690,000	\$0	\$60,000	\$630,000		\$0	\$0	\$0	\$
\$0				,	, ,		-	•	•	FY202

		Capital Project Request	
Project Title:	Pollard Locker Room Retrofit	Fiscal Year:	2021

Project Description and Considerations

Project Summary

- The current locker room layout at the Pollard Middle School is no longer conducive to the needs of the Athletic Department. The school is offering more varied sports programs, including sports with large equipment like field hockey sticks that need to be stored during the day. The existing lockers are all the same size and do not fit much of the sports equipment, leading to the either being carried around all day or left outside of lockers. The current layout also has blind spots in the locker rooms that pose a safety hazard. The flooring is starting to crack in places due to age. The bathrooms and showers are outdated as well.
- The division will work with a consultant for the design of retrofitting the locker room in order to make the space more functional for its current usage. Once a design has been decided on, lockers of varying sizes will be installed to accommodate the needs of the students, the flooring will be repaired, the showers, bathroom fixtures, and lighting will be updated and the room will be painted.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 3. Building, electrical, and plumbing permits will be required.
- 5. This is a Building Maintenance request.
- 15. This request is necessary to extend the life of the building.
- 16. All components will be permanently installed.
- 18. This request will require assistance from the School Department.

				Capital Proje	ct Request					
Project Title:	Pollard Blue an	d Green Gym Upgrade	es					Fiscal Year:		2020
Purpose:	Construction	Cla	ssification:		9	Status:	Amended R	equest from the Prio	r CIP	
Department:	Public Works - Bu	ilding Maintenance	•		9	Supports:	Other (see b	elow for information)	
Partners:	Needham Public	Schools			ı	Useful Life:	More than e	eighteen (18) years		
				<u>Parameters</u>						Response
Are there any co	sts to bid, design,	construct, purchase, inst	all, implement, or o	therwise complet	e the project which	are NOT includ	ed is this reques	it?	No	
. Are there recom	mendations or co	sts identified by other de	partments which ar	e NOT factored in	to the request?				No	
. Does this project	t require any perm	itting by any Town or Sta	ate agency?						Yes	
. If this request is	for Technology, h	as the Department comm	unicated with ITC,	and does ITC supp	ort the request?				No	
. If this request is	for Building Impro	vements, has the Depart	ment communicate	ed with the Buildin	g Maintenance (BM) division, and	does BM suppo	rt the request?	Yes	
. If funded, will ad	dditional permane	nt staff be required?					Total New F	TE's: 0	No	
. If funded, will th	e operating budge	t need to be increased to	cover operating ex	rpenses?					No	
. If funded, will th	is project lower th	e requesting Departmen	t's operating costs?						Yes	
. If funded, will th	is project require	ongoing assistance from	vendors at an addit	ional expense to t	he Town which is N	OT already bud	geted?		No	
0. If the project is	NOT funded, will	current Town revenue be	reduced?						No	
1. Is specialized tr	aining or annual li	censing required that the	Town will need to	pay in order to us	e the asset?				No	
2. Is this a project	for which an Initia	al Eligibility Project Applic	cation can be filed v	vith the Communi	ty Preservation Con	nmittee (CPC)?			No	
3. Is this a reques	t in response to a	Court, Federal, or State o	rder?						No	
4. Is this a reques	t in response to a	documented public healt	h or safety conditio	n?					No	
5. Is this a reques	t to improve or ma	ake repairs to extend the	useful life of a build	ding?					Yes	
6. Is this a reques	t to purchase appa	ratus/equipment that is	intended to be perr	manently installed	at the location of it	:s use?			Yes	
		rwise improve public pro	· ,		structure?				No	
8. Will any other o	department be red	uired to provide assistan	ce in order to comp	olete the project?					Yes	
9. If funded, will t	his project increas	e the operating expense	for any other depar	rtment?					No	
- J	\$30,000	How was the Project C			ndustry References					
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000				_		
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility	У	\$0								
esign/Engineering	g	\$0								
and/ROW Acquisit	tion	\$0								
ite Preparation		\$0								
onstruction		\$30,000	\$30,000							
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	• •	\$0								
echnology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$30,000	\$30,000	\$0	\$0		\$0	\$0	\$0	

		Capital Project Request		
Project Title:	Pollard Blue and Green Gym Upgrades		Fiscal Year:	2020

Project Description and Considerations

Project Summary

- In FY19, the Town received funding for the design and construction of upgrades for both the Blue and Green gyms at the Pollard Middle School. These upgrades plan to replace the rubber flooring that is not conducive to basketball, but is also not ADA/MAAB accessible. Additionally, the siding will be replaced, the gyms painted, backboards and winch mechanisms on the basketball hoops will be replaced or installed if not there, and padding will be added behind the backboards. In the Green gym, two sections of pull-out seating will be installed to accommodate classes. After those upgrades are made, the existing scoreboards will still remain. The existing scoreboards and shot clocks are beyond their useful life and the technology is outdated. They also contain incandescent bulbs, which are not energy efficient.
- The scoreboards in both gyms will be replaced with updated, electronic LED scoreboards. Shot clocks will be installed that have wireless controls and technology.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 3. Building and electrical permits will be required.
- 5. This is a Building Maintenance request.
- 8. Energy efficiency upgrades will reduce energy costs, but these are no longer included in Building Maintenance's budget.
- 15. This request will modernize building components, thereby maximizing the usefulness of this building.
- 16. Flooring and wall coverings will be permanently installed.
- 18. This request will require assistance from the School Department and the Athletics Department.

				Capital Pro	ject Request					
Project Title: Po	ollard AC Upgrades							Fiscal Year:		2021
urpose: De	esign/Engineering	CI	assification:	Building		Status:	Amended Re	quest from the Prio	r CIP	
Pupartment: Pu	ıblic Works - Building	Maintenance		_		Supports:	Other (see be	low for information)	
artners: Sc	hool Department					Useful Life:	More than tw	velve (12) years		
				<u>Parameters</u>		•				Response
. Are there any costs	to bid, design, constr	uct, purchase, ins	tall, implement,	or otherwise comp	lete the project whi	ch are NOT includ	ded is this request	?	No	
. Are there recomme	ndations or costs ide	ntified by other de	partments which	ch are NOT factored	into the request?				No	
. Does this project re	quire any permitting	by any Town or St	ate agency?						No	
. If this request is for	Technology, has the	Department comr	nunicated with I	ITC, and does ITC su	pport the request?				No	
. If this request is for	Building Improvemen	nts, has the Depar	tment communi	icated with the Build	ding Maintenance (E	BM) division, and	does BM support	the request?	Yes	
. If funded, will addit	ional permanent staf	f be required?					Total New FT	E's: 0	No	
. If funded, will the o	perating budget need	d to be increased t	o cover operatir	ng expenses?				•	No	
. If funded, will this p	roject lower the requ	uesting Departmer	it's operating co	osts?					No	
. If funded, will this p	roject require ongoin	ng assistance from	vendors at an a	ndditional expense to	the Town which is	NOT already bud	lgeted?		No	
0. If the project is NC	T funded, will curren	nt Town revenue b	e reduced?	·		·			No	
1. Is specialized train	ing or annual licensin	g required that th	e Town will nee	d to pay in order to	use the asset?				No	
2. Is this a project for	r which an Initial Eligil	bility Project Appl	cation can be fil	led with the Commu	inity Preservation C	ommittee (CPC)?			No	
3. Is this a request in	response to a Court,	Federal, or State	order?						No	
4. Is this a request in	response to a docum	nented public heal	th or safety con	dition?					No	
5. Is this a request to	improve or make rep	pairs to extend the	useful life of a	building?					No	
6. Is this a request to	purchase apparatus/	equipment that is	intended to be	permanently install	ed at the location o	f its use?			No	
	repair or otherwise i								No	
8. Will any other dep	artment be required	to provide assista	nce in order to o	complete the projec	t?				Yes	
9. If funded, will this	project increase the	operating expense	for any other d	lepartment?					Yes	
roject Cost: \$1	,225,000 Hov	v was the Project	Cost Determined	d:	Industry Referenc	es				
udget Impact: M	ay increase annual op	perating expenses	between \$5,001	1 and \$25,000				•		
Project Budget	Elements Pr	oject Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$0								
esign/Engineering		\$100,000		\$100,000	0					
and/ROW Acquisition	า	\$0								
ite Preparation		\$0								
onstruction		\$1,125,000			\$550,000	\$575,	000			
onstruction Manage	ment	\$0								
quipment		\$0								
urniture, Fixtures, an	d Equipment	\$0								
echnology Hardware	/Software	\$0								
Other Expenses		\$0								

		Capital Project Request		
Project Title:	Pollard AC Upgrades		Fiscal Year:	2021

Project Description and Considerations

Project Summary

- The Pollard Middle School only has supplemental AC in one third of the building. The comfort and temperature of the educational learning space is an important aspect of school maintenance, especially with school starting in August. Some of the classrooms have very little refuge from direct sunlight, adding to the heat and humidity issues during the warmer months. A lack of temperature and humidity control throughout the building can cause lasting damage to the building. The Pollard is also underutilized during the summer for programming because of the lack of AC, adding strain to other schools.
- This request would look at the possibilities for adding AC to the rest of the building. It would evaluate roof top units and split systems with regards to their efficiency and the process of installing it. Once the best option for the Town is determined, the AC would be added to the Pollard.

Changes from Prior Year Submission

• This request has been pushed forward a year, with the design now in FY21 at the request of the School Department.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 5. This is a Building Maintenance request.
- 18. Assistance will be required from the School Department.
- 19. The building is currently not air conditioned. Installing air conditioning throughout the building will increase energy costs, which are handled by the Needham ELG.

				Capital Proje	ect Request					
Project Title:	Newman Gym F	loor Repairs						Fiscal Year:		2020
urpose:	Construction	Cla	ssification: Bu	uilding		Status:	New Reque	est		
epartment:	Public Works - Bui	lding Maintenance				Supports:	Other (see	below for information)		
artners:	School Departmer	nt				Useful Life:	More than	twenty-five (25) years		
				<u>Parameters</u>					Ro	esponse
. Are there any co	sts to bid, design, o	construct, purchase, inst	all, implement, or o	otherwise complet	e the project which	n are NOT includ	led is this reque	st?	No	
. Are there recom	mendations or cos	ts identified by other de	partments which ar	re NOT factored ir	nto the request?				No	
. Does this projec	t require any permi	tting by any Town or Sta	ite agency?						Yes	
. If this request is	for Technology, ha	s the Department comm	unicated with ITC,	and does ITC supp	ort the request?				No	
. If this request is	for Building Improv	rements, has the Depart	ment communicate	ed with the Buildir	ng Maintenance (BN	Л) division, and	does BM suppo	ort the request?	Yes	
. If funded, will ac	dditional permanen	t staff be required?					Total New	FTE's: 0	No	
. If funded, will th	e operating budget	need to be increased to	cover operating ex	xpenses?			•	•	No	
. If funded, will th	is project lower the	e requesting Department	's operating costs?	1					No	
. If funded, will th	is project require o	ngoing assistance from v	endors at an addit	ional expense to t	he Town which is N	IOT already bud	geted?		No	
0. If the project is	NOT funded, will o	urrent Town revenue be	reduced?	·		•			No	
1. Is specialized tr	raining or annual lic	ensing required that the	Town will need to	pay in order to us	se the asset?				No	
2. Is this a project	for which an Initia	l Eligibility Project Applic	ation can be filed v	with the Commun	ty Preservation Co	mmittee (CPC)?			No	
3. Is this a reques	t in response to a C	Court, Federal, or State o	rder?						No	
4. Is this a reques	t in response to a d	ocumented public healt	n or safety conditio	n?					Yes	
5. Is this a reques	t to improve or ma	ke repairs to extend the	useful life of a build	ding?					Yes	
6. Is this a reques	t to purchase appa	ratus/equipment that is	intended to be peri	manently installed	at the location of	its use?			No	
7. Is this a reques	t to repair or other	wise improve public pro	perty which is NOT	a building or infra	structure?				No	
8. Will any other	department be req	uired to provide assistan	ce in order to com	plete the project?					No	
9. If funded, will t	his project increase	the operating expense	for any other depa	rtment?					No	
roject Cost:	\$275,000	How was the Project C	ost Determined:		Industry Reference:	S				
udget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility	у	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquisi	tion	\$0								
ite Preparation		\$0								
onstruction		\$275,000	\$275,000							
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures,	• •	\$0								
echnology Hardw	are/Software	\$0								
ther Expenses		\$0								
		\$275,000	\$275,000	\$0	\$0		\$0	\$0	\$0	

	Capital Project F	equest	
Project Title:	Newman Gym Floor Repairs	Fiscal Year:	2020

Project Description and Considerations

Project Summary

- The floors at the Newman gym are original to the building. Over the years, they have been subject to buckling. This buckling has accelerated in the past 2-3 years, making the conditions in the gym potentially unsafe. This problem will continue to get worse. Due to the presence of asbestos containing materials in the subfloor, temporary repairs are not possible.
- Design for this project will come from existing resources due to the emergent nature of the problem and the need for a replacement in the summer of 2019. The existing flooring will be removed, the asbestos containing materials will be safely abated, and new wood sports flooring will be installed.

Clarification of Questions

- 3. Building permits will be needed.
- 5. This is a Building Maintenance request.
- 14. The flooring presents a tripping hazard.
- 15. This will extend the useful life of the gym.

				Capital Proj	ect Request					
Project Title:	Mitchell Restro	om Upgrades						Fiscal Year:	:	2020
Purpose:	Design/Engineer	ing	Classification: Bu	uilding		Status:	Amended I	Request from the Pri	or CIP	
Department:	Public Works - Bu	ilding Maintenance				Supports:	Other (see	below for informatio	n)	
artners:	School Departme	nt				Useful Life:	More than	twenty-five (25) year	·s	
				<u>Parameters</u>			_			Response
Are there any co	osts to bid, design,	construct, purchase,	install, implement, or o	otherwise comple	te the project which	are NOT includ	ed is this reque	est?	No	
. Are there recon	nmendations or cos	sts identified by other	departments which a	re NOT factored i	nto the request?				No	
. Does this projec	t require any perm	itting by any Town o	r State agency?						Yes	
. If this request is	for Technology, ha	as the Department co	mmunicated with ITC,	and does ITC sup	port the request?				No	
. If this request is	for Building Impro	vements, has the Dep	partment communicate	ed with the Buildi	ng Maintenance (BM	1) division, and	does BM suppo	ort the request?	Yes	
. If funded, will a	dditional permanei	nt staff be required?					Total New	FTE's: 0	No	
. If funded, will th	ne operating budge	t need to be increase	d to cover operating e	xpenses?			_	-	No	
. If funded, will th	nis project lower th	e requesting Departn	nent's operating costs?)					No	
. If funded, will th	nis project require	ongoing assistance fro	om vendors at an addit	ional expense to	the Town which is N	OT already bud	geted?		No	
0. If the project is	NOT funded, will	current Town revenu	e be reduced?						No	
1. Is specialized t	raining or annual li	censing required that	the Town will need to	pay in order to us	se the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
3. Is this a reques	st in response to a	Court, Federal, or Sta	te order?						No	
4. Is this a reques	st in response to a	documented public h	ealth or safety condition	n?					No	
5. Is this a reques	st to improve or ma	ake repairs to extend	the useful life of a buil	ding?					Yes	
6. Is this a reques	st to purchase appa	ratus/equipment tha	t is intended to be per	manently installed	d at the location of i	ts use?			Yes	
7. Is this a reques	st to repair or othe	rwise improve public	property which is NOT	a building or infra	astructure?				No	
8. Will any other	department be red	uired to provide assis	stance in order to com	plete the project?	1				Yes	
9. If funded, will	this project increas	e the operating expe	nse for any other depa	rtment?					No	
roject Cost:	\$737,000	How was the Proje	ct Cost Determined:		Industry References					
udget Impact:	Negligible impact	on the annual opera	ting expenses less than	\$5,000						
	lget Elements	Project Budget	2020	2021	2022	2023	202	4 2025		2026
lanning/Feasibilit	:y	\$0								
esign/Engineerin	g	\$67,000	\$67,000							
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
onstruction		\$670,000		\$670,000						
onstruction Man	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw	/are/Software	\$0								
ther Expenses		\$0								
TOTAL		\$737,000	\$67,000	\$670,000	\$0		\$0	\$0	\$0	

		Capital Project Request	
Project Title:	Mitchell Restroom Upgrades	Fiscal Year:	2020

Project Description and Considerations

Project Summary

- There are currently six restrooms at the Mitchell that are not ADA/MAAB accessible. Many of the existing plumbing fixtures are 40 to 60 years old. The current stalls are not the proper size and do not have grab bars. The urinals and dispensers are not set at the proper height. The sinks do not have insulated pipes. The restrooms do not have the minimum clearance necessary at the entrance nor do they have the appropriate turning radius.
- The existing restrooms would be upgraded to meet ADA/MAAB requirements. This request would also look at providing two additional Staff Only accessible restrooms. In the existing restrooms, the fixtures would be replaced with water saving fixtures. The existing restrooms would also be reconfigured increasing the entranceways and turning circle radius to be ADA accessible. The door hardware and stalls would be upgraded to be the proper size, set at the proper height, and include grab bars. The first phase would be the design, followed by the construction component. The Town will apply for an ADA compliance grant, if available, to offset the cost of this project.

Update from Prior Year Submission

- This request has been pushed up a year, with the design request in FY20 at the request of the School Department, due to the condition of the restrooms.
- The Town received an updated quote that was \$77,000 higher than last year's submission, which is inline with the rising cost of construction.

Clarification of Questions

- 3. Building and electrical permits will be required.
- 5. This is a Building Maintenance request.
- 15. This request will improve the bathrooms and extend their usage.
- 16. All fixtures will be permanently installed.
- 18. Assistance will be required from the School Department.

				Capital Pro	ject Request				
Project Title:	Facility Assessm	ent for Sustainable E	Building Managen	nent				Fiscal Year:	2020
urpose:	Feasibility Study	Cl	assification: Bu	uilding		Status:	Amended Request	from the Prior C	IP
epartment:	Public Works - Bu	ilding Maintenance				Supports:	Other (see below fo	or information)	
artners:	Needham Public S	chools				Useful Life:	More than eight (8)	years	
				<u>Parameters</u>					Respon
. Are there any cos	sts to bid, design, o	construct, purchase, ins	tall, implement, or o	otherwise comp	lete the project wh	nich are NOT inclu	ded is this request?		No
. Are there recomi	mendations or cos	ts identified by other de	partments which a	re NOT factored	into the request?				No
. Does this project	require any perm	itting by any Town or St	ate agency?						No
. If this request is f	or Technology, ha	s the Department comr	nunicated with ITC,	and does ITC su	pport the request)			No
. If this request is f	or Building Improv	vements, has the Depar	tment communicat	ed with the Build	ding Maintenance	(BM) division, and	does BM support the re	equest?	Yes
		t staff be required?						0	No
. If funded, will the	operating budget	t need to be increased t	o cover operating e	xpenses?					No
		e requesting Departmer							No
. If funded, will thi	s project require c	ongoing assistance from	vendors at an addit	tional expense to	the Town which	s NOT already but	dgeted?		No
0. If the project is	NOT funded, will o	current Town revenue b	e reduced?			·			No
		ensing required that th		pay in order to	use the asset?				No
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No
3. Is this a request	in response to a C	Court, Federal, or State	order?						No
4. Is this a request	in response to a c	locumented public heal	th or safety condition	on?					No
5. Is this a request	to improve or ma	ke repairs to extend the	useful life of a buil	ding?					Yes
6. Is this a request	to purchase appa	ratus/equipment that is	intended to be per	manently install	ed at the location	of its use?			No
7. Is this a request	to repair or other	wise improve public pro	perty which is NOT	a building or inf	frastructure?				No
8. Will any other d	lepartment be req	uired to provide assista	nce in order to com	plete the projec	t?				Yes
9. If funded, will th	nis project increase	e the operating expense	for any other depa	rtment?					No
roject Cost:	\$150,000	How was the Project	Cost Determined:		Industry Referer	ces			
udget Impact:	Negligible impact	on the annual operating	g expenses less thar	n \$5,000					
Project Budg	et Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
anning/Feasibility	,	\$150,000	\$100,000				\$50,000		
esign/Engineering		\$0							
and/ROW Acquisit	ion	\$0							
ite Preparation		\$0							
onstruction		\$0							
onstruction Mana	gement	\$0							
quipment		\$0							
urniture, Fixtures,	and Equipment	\$0							
echnology Hardwa	are/Software	\$0							
ther Expenses		\$0							
		\$150,000	\$100,000	\$0		50			50

	Capital Project Request		
Project Title:	Facility Assessment for Sustainable Building Management	Fiscal Year:	2020

Project Description and Considerations

Project Summary

As buildings age, a facility assessment helps to guide major repairs and upgrades that are required to ensure the buildings remain sustainable.

Broadmeadow and Eliot Schools- FY 20

- The Broadmeadow and Eliot Elementary Schools are approaching 20 years old and may require upgrades beyond general maintenance. Many of the systems within the buildings, including heating, ventilation, and air conditioning (HVAC), boilers, and plumbing, are reaching the end of their useful life.
- A facility assessment will be conducted on the Broadmeadow and Eliot Schools to determine the condition of the facility and to identify any major repairs and replacement needs. The assessment will consider HVAC systems, plumbing, roofing, and boilers, in order to create a plan to address future needs.

Library - FY 24

- The Library is approaching 20 years old and may require upgrades beyond general maintenance. Many of the systems within the building, including HVAC, boilers, and plumbing, are reaching the end of their useful life.
- A facility assessment will be conducted on the Library to determine the condition of the facility and to identify any major repairs and replacement needs. The assessment will consider HVAC systems, plumbing, roofing, and boilers, in order to create a plan to address future needs.

Changes from Prior Year Submission

• This article was not funded in FY19 and is being resubmitted in FY20.

Clarification of Questions

 $\label{lem:supports} \textbf{Supports Duilding infrastructure.}$

- 5. This is a Building Maintenance request.
- 15. This study is anticipated to make recommendations that will extend the life of the building in a sustainable way.
- 18. Assistance will be required from the School Department and the Library.

				Capital Projec	t Request					
Project Title:	Energy Efficient	: Upgrades					1	Fiscal Year:		2020
Purpose:	Construction	Cla	assification: Bu	ilding	St	atus:	Amended Request f	rom the Prior C	CIP .	
Department:	Public Works - Bu	ilding Maintenance			Su	ipports:	Other (see below fo	r information)		
Partners:	Building Occupan	ts			U	seful Life:	More than twelve (1	l2) years		
				<u>Parameters</u>	_				<u>R</u>	Response
1. Are there any co	osts to bid, design,	construct, purchase, inst	all, implement, or o	therwise complete	the project which a	re NOT included	is this request?		No	
. Are there recom	mendations or cos	sts identified by other de	partments which ar	e NOT factored into	the request?				No	
3. Does this projec	t require any perm	itting by any Town or Sta	ate agency?						Yes	
l. If this request is	for Technology, ha	as the Department comm	nunicated with ITC, a	and does ITC suppo	rt the request?				No	
. If this request is	for Building Impro	vements, has the Depart	ment communicate	d with the Building	Maintenance (BM)	division, and do	es BM support the re	quest?	Yes	
i. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:	0	No	
. If funded, will th	ne operating budge	t need to be increased to	cover operating ex	penses?					No	
3. If funded, will th	nis project lower th	e requesting Departmen	t's operating costs?						Yes	
. If funded, will th	nis project require o	ongoing assistance from	vendors at an additi	onal expense to the	e Town which is NO	T already budget	:ed?		No	
0. If the project is	NOT funded, will	current Town revenue be	e reduced?						No	
1. Is specialized t	raining or annual li	censing required that the	Town will need to	pay in order to use	the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
3. Is this a reques	t in response to a	Court, Federal, or State o	rder?						No	
4. Is this a reques	t in response to a	documented public healt	h or safety conditio	n?					No	
5. Is this a reques	t to improve or ma	ake repairs to extend the	useful life of a build	ling?					Yes	
.6. Is this a reques	t to purchase appa	ratus/equipment that is	intended to be perr	nanently installed a	t the location of its	use?			Yes	
		rwise improve public pro	. ,		ructure?				No	
.8. Will any other	department be red	uired to provide assistar	nce in order to comp	lete the project?					Yes	
.9. If funded, will t	this project increas	e the operating expense	for any other depar	tment?					No	
Project Cost:	\$457,000	How was the Project (red Consultant					
Budget Impact:	Negligible impact	on the annual operating	expenses less than	\$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibilit	У	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
ite Preparation		\$0								
Construction		\$457,000	\$57,000	\$100,000	\$100,000	\$100,000	\$100,000			
onstruction Mana	agement	\$0								
quipment		\$0								
urniture, Fixtures	, and Equipment	\$0								
echnology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$457,000	\$57,000	\$100,000	\$100,000	\$100,000	\$100,000		\$0	!

		Capital Project Request	
Project Title:	Energy Efficient Upgrades	Fiscal Year:	2020

Project Description and Considerations

This article is to continuously make energy efficient upgrades throughout Town and School buildings

Project Summary

• In 2011, the Town conducted an engineering study for energy upgrades on the 10 oldest buildings. The results of this study showed that by making an initial investment in recommended energy upgrades, the cost of these upgrades will pay for themselves within 10 years. The division has continued to make upgrades each year.

Lighting Improvements at the Pollard

- The existing lighting at the Pollard is inefficient. This was a recommendation of the 2011 study.
- Bi-lighting will be installed throughout the building hallways to improve lighting. This consists of delamping the hallway lamp fixtures in the to two lamp fixtures along with reflectors and disconnecting alternate single lamp fixtures in the hallway and installing occupancy sensors in the hallways so as to implement Tandem lighting across the building. Tandem lighting would consists of series of ceiling-mounted occupancy controls that would turn off alternate light fixtures post detecting un-occupancy for a pre-programmed duration of time.

Retrocommissioning High Rock HVAC

- Heating and cooling at the High Rock has been inconsistent since the building was opened. Many spaces have been repurposed from the original design and the HVAC system was not altered to accommodate those changes. For example, there is a large classroom with a temporary subdividing wall. The HVAC was designed to function optimally with the wall open but the wall is now permanently closed.
- The retrocommissioning will evaluate the existing systems and make recommendations for rebalancing and reconfiguring if necessary.

Energy Efficiency Study

• The existing energy efficiency study recommendations have been exhausted. Technologies have improved and changed for energy efficiency. Buildings that were not originally evaluated due to their age are now eligible for possible upgrades. This study will produce recommendations for future improvements to be funded out of the operating budget or this article.

Retrocommissioning High School HVAC

- This is the largest and most complex building in the Town's inventory. It has had phased renovations of varying sizes, including large additions, repurposing of spaces, reconfigurations, etc.
- To make sure that the building HVAC system is well integrated, including the 2018 addition, this retrocommissioning will look at rebalancing the building and ensuring that the HVAC is performing efficiently.

		Capital Project Request	
Project Title:	Energy Efficient Upgrades	Fiscal Year:	2020

Supplemental Information

Funding Schedule

Project	FY 20	FY 21	FY 22	FY 23	FY 24
Lighting Improvements at the Pollard	\$7,000				
Retrocomissioning High Rock HVAC	\$50,000				
Energy Efficiency Study		\$100,000			
Retrocomissioning NHS HVAC			\$100,000		
Future Projects				\$100,000	\$100,000

Changes from Prior Submission

• The retrocommissioning of the HVAC at the High Rock was added due to need, causing an increase in the FY20 request.

Clarification of Questions

- 3. Building, electrical, and plumbing permits will be required.
- 5. This is a Building Maintenance request.
- 8. Energy efficiency upgrades will reduce energy costs, but these are no longer included in Building Maintenance's budget.
- 15. This request will modernize building components.
- 16. Building components will be permanently installed.
- 18. This request will require cooperation from the occupants of the building(s) being addressed.

				Capital Pro	ject Request					
Project Title: Er	mery Grover Roof Rep	olacement						Fiscal Year:		2021
Purpose: De	esign/Engineering	(Classification:	Building		Status:	Amended Req	uest from the Prior	CIP	
Department: Pu	ublic Works - Building Ma	aintenance		•		Supports:	Other (see belo	ow for information		
Partners: Sc	hool Department, Comn	nunity Preserv	vation Committe	е		Useful Life:	More than twe	enty-five (25) years		
•				<u>Parameters</u>						Response
1. Are there any costs	to bid, design, construct	t, purchase, ir	nstall, implement	, or otherwise compl	ete the project whic	h are NOT includ	led is this request?		No	
2. Are there recomme	endations or costs identif	fied by other o	departments whi	ich are NOT factored	into the request?				No	
3. Does this project re	equire any permitting by	any Town or S	State agency?						Yes	
4. If this request is for	Technology, has the De	partment con	nmunicated with	ITC, and does ITC sup	oport the request?				No	
5. If this request is for	· Building Improvements	, has the Depa	artment commur	nicated with the Build	ling Maintenance (BI	M) division, and	does BM support t	the request?	Yes	
6. If funded, will addit	ional permanent staff be	e required?					Total New FTE	's: 0	No	
7. If funded, will the o	perating budget need to	be increased	to cover operati	ing expenses?					No	
8. If funded, will this p	project lower the reques	ting Departme	ent's operating co	osts?					Yes	
9. If funded, will this p	project require ongoing a	assistance fror	m vendors at an a	additional expense to	the Town which is I	NOT already bud	geted?		No	
10. If the project is NC	DT funded, will current T	own revenue	be reduced?						No	
11. Is specialized train	ning or annual licensing r	equired that t	he Town will nee	ed to pay in order to u	use the asset?				No	
12. Is this a project for	r which an Initial Eligibili	ty Project App	olication can be f	iled with the Commu	nity Preservation Co	mmittee (CPC)?			Yes	
13. Is this a request in	response to a Court, Fe	deral, or State	e order?						No	
14. Is this a request in	response to a documen	ted public hea	alth or safety cor	ndition?					No	
15. Is this a request to	improve or make repair	rs to extend th	he useful life of a	building?					Yes	
16. Is this a request to	purchase apparatus/eq	uipment that	is intended to be	e permanently installe	ed at the location of	its use?			Yes	
17. Is this a request to	repair or otherwise imp	prove public p	roperty which is	NOT a building or inf	rastructure?				No	
18. Will any other dep	partment be required to	provide assist	ance in order to	complete the project	:?				Yes	
19. If funded, will this	project increase the ope	erating expens	se for any other o	department?					No	
Project Cost: \$2	235,000 How w	as the Projec	t Cost Determine	ed:	Industry Reference	s				
Budget Impact: No	egligible impact on the a	nnual operati	ng expenses less	than \$5,000						
Project Budget	Elements Proje	ect Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$15,000		\$15,000)					
Land/ROW Acquisition	n	\$0								
Site Preparation		\$0								
Construction		\$220,000			\$220,000					
Construction Manage	ment	\$0								
Equipment		\$0								
Furniture, Fixtures, an	nd Equipment	\$0								
Technology Hardware	e/Software	\$0								
Other Expenses		\$0								
TOTAL		\$235,000	\$	0 \$15,000	\$220,000		\$0	\$0	\$0	\$
\$0		. ,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,		•	•	•	FY202

		Capital Project Request		
Project Title:	Emery Grover Roof Replacement		Fiscal Year:	2021
•		Project Description and Considerations		,

Project Summary

- The existing roof at the Emery Grover School Administration building is slate and is over 100 years old. The life expectancy of a slate roof is 75 years, so this roof is well beyond that and poses continual maintenance problems. The roof has serious leakage problems, which have historically caused significant damage to the flooring and interruption to the building.
- This roof will be replaced with a new environmentally conscious material that mimics the aesthetics of slate, but is composed of recycled rubber from tires. This material would reduce the cost of installation and maintenance. This project is pending the results of the Emery Grover feasibility study.

Change from Prior Year Submission

• The price has increased slightly due to inflation.

Clarification of Questions

- 3. Building permits will be required.
- 5. This is a Building Maintenance request.
- 8. Energy efficiency upgrades will reduce energy costs, which are no longer handled by the Building Maintenance Division.
- 12. This project may be eligible for CPA funding.
- 15. This request is necessary to extend the life of the building.
- 16. The roof will be permanently installed.
- 18. This request will require assistance from the School Department.

				Capital Pro	ject Request					
Project Title:	Emery Grover Pa	artial Window Repla	cement					Fiscal Year:		2021
urpose:	Design/Engineerin	ng Cl	assification:	Building	St	atus:	Informational Only	Details Incompl	ete	
epartment:	Public Works - Buil	lding Maintenance			Si	upports:	Other (see below f	or information)		
artners:	Needham Public So	chools, Community Pre	servation Comn	nittee	U	seful Life:	More than twenty-	five (25) years		
				<u>Parameters</u>	•		•		Re	sponse
. Are there any co	sts to bid, design, c	onstruct, purchase, ins	tall, implement,	or otherwise comple	ete the project which a	re NOT includ	ed is this request?		No	
. Are there recom	mendations or cost	ts identified by other de	partments which	ch are NOT factored	into the request?				No	
. Does this project	require any permi	tting by any Town or St	ate agency?						Yes	
. If this request is	for Technology, has	s the Department comr	nunicated with	ITC, and does ITC sup	port the request?				No	
If this request is	for Building Improv	rements, has the Depar	tment commun	icated with the Build	ing Maintenance (BM)	division, and	does BM support the r	equest?	Yes	
		t staff be required?						0	No	
. If funded, will the	e operating budget	need to be increased t	o cover operatii	ng expenses?					No	
-		requesting Departmer	•	-					Yes	
		ngoing assistance from			the Town which is NC	T already budg	geted?		No	
0. If the project is	NOT funded, will c	urrent Town revenue b	e reduced?	•					No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?										
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									Yes	
3. Is this a request	in response to a C	ourt, Federal, or State	order?						No	
4. Is this a request	in response to a d	ocumented public heal	h or safety con	dition?					No	
5. Is this a request	to improve or mal	ke repairs to extend the	useful life of a	building?					Yes	
6. Is this a request	to purchase appar	ratus/equipment that is	intended to be	permanently installe	ed at the location of its	use?			Yes	
7. Is this a request	to repair or other	wise improve public pro	perty which is I	NOT a building or infi	rastructure?				No	
		uired to provide assista							Yes	
9. If funded, will tl	his project increase	the operating expense	for any other d	lepartment?					No	
roject Cost:	\$398,000	How was the Project	Cost Determine	d:	Industry References				•	
udget Impact:	Negligible impact of	on the annual operating	expenses less	than \$5,000						
Project Budg	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility	1	\$0								
esign/Engineering	5	\$30,000		\$30,000						
and/ROW Acquisit	tion	\$0								
te Preparation		\$0								
onstruction		\$368,000			\$368,000					
onstruction Mana	gement	\$0								
quipment		\$0								
 urniture, Fixtures,	and Equipment	\$0								
echnology Hardwa		\$0								
o,		\$0								
Other Expenses		Ψ.								

Capital Project Request								
Project Title:	Emery Grover Partial Window Replacement	Fiscal Year:	2021					

Project Description and Considerations

Project Summary

- The eight arched windows on the front of the Emery Grover School Administration building are beyond their expected life span. They are inefficient, resulting in occupant discomfort and needless energy usage in order to maintain the heating and cooling in the building. Replacing these windows will increase energy efficiency.
- The plan is to remove and replace the eight arched windows with custom, energy efficient arched windows.

Changes from Prior Year Submission

• This request has been pushed back to FY21 in order to allow additional time for the Town to determine the future of the building. If a major renovation is not planned for this facility, then this repair is being recommended. The price has increased slightly due to inflation.

Clarification of Questions

- 3. Building permits will be required.
- 5. This is a Building Maintenance request.
- 8. Energy efficiency upgrades will reduce energy costs, but those are no longer included in Building Maintenance's budget.
- 12. This project may be eligible for CPA funding.
- 15. This request is necessary to extend the life of the building.
- 16. The windows will be permanently installed.
- 18. This request will require assistance from the School Department.

				Capital Proje	ct Request					
Project Title: D	PW Boiler Repl	acement - 470 Dedh	am Ave					Fiscal Year:		2020
urpose:	esign/Engineerin	g Cl	assification: Bu	ilding		Status:	Amended Re	equest from the Prior	CIP	
epartment: Pu	ıblic Works - Buil	ding Maintenance				Supports:	Other (see be	elow for information)		
artners:						Useful Life:	More than ei	ighteen (18) years		
_				<u>Parameters</u>						Response
. Are there any costs	to bid, design, co	onstruct, purchase, ins	tall, implement, or o	therwise complet	e the project which	n are NOT inclu	ded is this request	t?	No	
. Are there recomme	endations or cost	s identified by other de	partments which ar	e NOT factored in	to the request?				No	
. Does this project re	quire any permit	ting by any Town or St	ate agency?						Yes	
. If this request is for	Technology, has	the Department comn	nunicated with ITC,	and does ITC supp	ort the request?				No	
If this request is for	Building Improv	ements, has the Depar	tment communicate	ed with the Buildin	g Maintenance (BN	/l) division, and	does BM suppor	t the request?	Yes	
. If funded, will addit							Total New F1		No	
. If funded, will the o	perating budget	need to be increased to	o cover operating ex	rpenses?			•	•	No	
		requesting Departmen							Yes	
-	-	ngoing assistance from			he Town which is N	IOT already bud	lgeted?		No	
0. If the project is N (OT funded, will cu	urrent Town revenue b	e reduced?	·		•			No	
1. Is specialized train	ing or annual lice	ensing required that the	e Town will need to	pay in order to us	e the asset?				No	
2. Is this a project fo	r which an Initial	Eligibility Project Appli	cation can be filed v	vith the Communi	ty Preservation Co	nmittee (CPC)?			No	
3. Is this a request in	response to a Co	ourt, Federal, or State o	order?						No	
4. Is this a request in	response to a do	ocumented public healt	th or safety conditio	n?					No	
5. Is this a request to	improve or mak	e repairs to extend the	useful life of a build	ding?					Yes	
6. Is this a request to	purchase appar	atus/equipment that is	intended to be perr	manently installed	at the location of	ts use?			Yes	
7. Is this a request to	repair or otherv	vise improve public pro	perty which is NOT	a building or infra	structure?				No	
8. Will any other dep	artment be requ	ired to provide assista	nce in order to comp	olete the project?					No	
9. If funded, will this	project increase	the operating expense	for any other depar	rtment?					No	
roject Cost: \$5	10,000	How was the Project (Cost Determined:	I	ndustry Reference	5				
udget Impact: Ne	egligible impact o	n the annual operating	expenses less than	\$5,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility		\$0								
esign/Engineering		\$50,000	\$50,000							
and/ROW Acquisition	n	\$0								
te Preparation		\$0								
onstruction		\$460,000		\$460,000						
onstruction Manage	ment	\$0								
quipment		\$0								
urniture, Fixtures, ar	ıd Equipment	\$0								
echnology Hardware	e/Software	\$0								
ther Expenses		\$0								
		\$510,000	\$50,000	\$460,000	\$0		\$0	\$0	\$0	

Capital Project Request								
Project Title:	DPW Boiler Replacement - 470 Dedham Ave	Fiscal Year:	2020					

Project Description and Considerations

Project Summary

- The boiler at the DPW garage was installed in 1961 and is past its useful life. It has required a number of significant repairs recently in order to keep it working. The Town has had to bring in a temporary boiler during the winter season to maintain heat in the facility while the boiler was down, as there is no redundancy in the heating system. Due to its age and style, it is not energy efficient. Based on previous projects of a similar nature, there is an estimated 15-20% energy cost savings.
- The existing boiler will be removed and replaced with two high efficiency condensing boilers that use natural gas to gain redundancy. This will ensure that should anything happen to one boiler, the building will still have sufficient heat to keep the pipes from freezing. This will also make the building more energy efficient. The design will also include addressing the heat piping throughout the building.

Changes from Prior Year Submission

• This request has been pushed back a year in order to give the Town additional time to determine the future of the DPW building.

Clarification of Questions

- 3. Plumbing and electrical permits will be required.
- 5. This is a Building Maintenance request.
- 8. Upgrading to an energy efficient boiler will reduce heating costs, but those are no longer included in Building Maintenance's budget.
- 15. This request will extend the life of the building.
- 16. The boiler will be permanently installed at this location.

Purpose: Department: Partners: 1. Are there any costs to the project request is for the project is the project is project request is for the project is project for the project is project is project is project is project is project for the project is this a project for the project is the project is the project is the project is the project for the project is th	to bid, design, construct, purchase, in ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Department of Tended, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	nstall, implement, of departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the reduced?	n are NOT factore TC, and does ITC s cated with the Bui g expenses? its? Iditional expense	d into the request upport the reques Iding Maintenance	? st? e (BM) division, a	More than twer uded is this request? nd does BM support the Total New FTE's	•		ponse						
Department: Partners: 1. Are there any costs to 2. Are there recommends. Does this project request is for Education of Ed	to bid, design, construct, purchase, in ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Department of Tended, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	nstall, implement, of departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the reduced?	Parameters or otherwise come n are NOT factore TC, and does ITC stated with the Built g expenses? its? Iditional expense	d into the request upport the reques Iding Maintenance	Supports: Useful Life: which are NOT incl ? et? e (BM) division, and	Other (see below More than twent with the second with the seco	nty-five (25) years ne request?	No No Yes Yes Yes No	ponse						
Partners: 1. Are there any costs to 2. Are there recommends. Does this project required as a first project required as a first project is for 15. If this request is for 16. If funded, will additionally funded, will the project for 11. Is specialized training 12. Is this a project for 13. Is this a request in 14. Is this a request in 14. Is this a request in 15.	to bid, design, construct, purchase, in ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Departmoject require ongoing assistance from the project require ongoing assistance from the project required control of the project required that it which an Initial Eligibility Project Ap	departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the be reduced?	or otherwise come are NOT factore. TC, and does ITC stated with the Built gexpenses? Its? Iditional expense	d into the request upport the reques Iding Maintenance	Useful Life: which are NOT incl ? st? e (BM) division, a	More than twer uded is this request? nd does BM support the Total New FTE's	nty-five (25) years ne request?	No No Yes Yes Yes No	ponse						
1. Are there any costs to 2. Are there recommends. Does this project requirements is for 15. If this request is for 16. If funded, will additionally additionally additionally and the project is project for 16. If funded, will this project is project is project is project for 16. Is this a project for 16. Is this a request in 16. Is this a request in 16. Is this a request in 16.	ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Departmoject require ongoing assistance from T funded, will current Town revenueing or annual licensing required that which an Initial Eligibility Project Ap	departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the be reduced?	or otherwise come are NOT factore. TC, and does ITC stated with the Built gexpenses? Its? Iditional expense	d into the request upport the reques Iding Maintenance	which are NOT incl ? et? e (BM) division, and	uded is this request? nd does BM support th Total New FTE's	ne request?	No No Yes Yes Yes No	ponse						
2. Are there recommends. Does this project required at this request is for 15. If this request is for 16. If funded, will addition at the project is 16. If funded, will the project is 16. If funded, will this project is 16. If the project is 16. If specialized training 16. Is this a project for 16. Is this a request in 16. Is this a request in 16. Is this a request in 16.	ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Departmoject require ongoing assistance from T funded, will current Town revenueing or annual licensing required that which an Initial Eligibility Project Ap	departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the be reduced?	or otherwise come are NOT factore. TC, and does ITC stated with the Built gexpenses? Its? Iditional expense	d into the request upport the reques Iding Maintenance	? st? e (BM) division, a	nd does BM support th Total New FTE's	•	No No Yes Yes Yes No	ponse						
2. Are there recommends. Does this project required at this request is for 15. If this request is for 16. If funded, will addition at the project is 16. If funded, will the project is 16. If funded, will this project is 16. If the project is 16. If specialized training 16. Is this a project for 16. Is this a request in 16. Is this a request in 16. Is this a request in 16.	ndations or costs identified by other quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Departmoject require ongoing assistance from T funded, will current Town revenueing or annual licensing required that which an Initial Eligibility Project Ap	departments which State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the be reduced?	n are NOT factore TC, and does ITC s cated with the Bui g expenses? its? Iditional expense	d into the request upport the reques Iding Maintenance	? st? e (BM) division, a	nd does BM support th Total New FTE's	•	No Yes Yes Yes No							
3. Does this project req 4. If this request is for 1 5. If this request is for 1 6. If funded, will addition 7. If funded, will the open 8. If funded, will this proposed is NO 10. If the project is NO 11. Is specialized training 12. Is this a project for 1 13. Is this a request in reques	quire any permitting by any Town or Technology, has the Department cor Building Improvements, has the Depional permanent staff be required? perating budget need to be increased roject lower the requesting Departmoject require ongoing assistance from Tunded, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	State agency? mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad be reduced? the Town will need	TC, and does ITC s cated with the Buing g expenses? its? Iditional expense	upport the reques	st? e (BM) division, a	Total New FTE's	•	Yes Yes Yes No							
I. If this request is for E 5. If this request is for E 5. If funded, will addition 7. If funded, will the op 8. If funded, will this proposed is NO 10. If the project is NO 11. Is specialized training 12. Is this a project for 13. Is this a request in	Technology, has the Department cor Building Improvements, has the Dep ional permanent staff be required? perating budget need to be increased roject lower the requesting Departm project require ongoing assistance fro OT funded, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	mmunicated with IT artment communic d to cover operating ent's operating cos m vendors at an ad the reduced?	g expenses? ets? Iditional expense	lding Maintenance	e (BM) division, a	Total New FTE's	•	Yes Yes No							
5. If this request is for E 5. If funded, will addition 7. If funded, will the op 8. If funded, will this properties of the project is NO 11. Is specialized training 12. Is this a project for 13. Is this a request in req	Building Improvements, has the Dep ional permanent staff be required? perating budget need to be increased project lower the requesting Departm project require ongoing assistance from tunded, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	artment communic d to cover operating ent's operating cos m vendors at an ad be reduced? the Town will need	g expenses? ets? Iditional expense	lding Maintenance	e (BM) division, a	Total New FTE's	•	Yes No							
5. If funded, will addition 7. If funded, will the op 8. If funded, will this pr 9. If funded, will this pr 10. If the project is NO 11. Is specialized training 12. Is this a project for 13. Is this a request in r 14. Is this a request in r	ional permanent staff be required? perating budget need to be increased project lower the requesting Departmoroject require ongoing assistance from the following or annual licensing required that which an Initial Eligibility Project Ap	d to cover operating ent's operating cos m vendors at an ad be reduced? the Town will need	g expenses? its? Iditional expense			Total New FTE's	•	No							
r. If funded, will the op B. If funded, will this pr I. If funded, will this pr I. If the project is NO I. Is specialized training I. Is this a project for I. Is this a request in r I. Is this a request in r	perating budget need to be increased roject lower the requesting Departmoroject require ongoing assistance froot funded, will current Town revenueing or annual licensing required that which an Initial Eligibility Project Ap	ent's operating cos m vendors at an ad be reduced? the Town will need	its? Iditional expense	to the Town which	n is NOT already b	•	s: 0								
a. If funded, will this properties of the project is NO. If the project is NO. Is specialized training. Is this a project for a. Is this a request in reference to the project for a. Is this a request in reference to the project for a. Is this a request in reference to the project for a special project for a	roject lower the requesting Departm roject require ongoing assistance fro of funded, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	ent's operating cos m vendors at an ad be reduced? the Town will need	its? Iditional expense	to the Town which	n is NOT already b	udgeted?	-	No							
o. If funded, will this properties NO. If the project is NO. 1. Is specialized training. Is this a project for 3. Is this a request in results this a request in results.	roject require ongoing assistance fro OT funded, will current Town revenue ing or annual licensing required that which an Initial Eligibility Project Ap	m vendors at an ad be reduced? the Town will need	lditional expense	to the Town which	n is NOT already b	udgeted?	8. If funded, will this project lower the requesting Department's operating costs?								
O. If the project is NO . 1. Is specialized training. 2. Is this a project for. 3. Is this a request in refuse the second of	OT funded, will current Town revenue ing or annual licensing required that r which an Initial Eligibility Project Ap	be reduced? the Town will need		to the Town which	n is NOT already b	D. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted? No									
 Is specialized training Is this a project for Is this a request in refuse this a request in refuse this a request in refuse this and the refuse this area. 	ing or annual licensing required that r which an Initial Eligibility Project Ap	the Town will need	to nay in order to												
2. Is this a project for3. Is this a request in r4. Is this a request in r	r which an Initial Eligibility Project Ap		to pay in order to	10. If the project is NOT funded, will current Town revenue be reduced?											
3. Is this a request in r 4. Is this a request in r		plication can be file	11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?												
4. Is this a request in r		12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?													
	13. Is this a request in response to a Court, Federal, or State order?														
5. Is this a request to	response to a documented public he	alth or safety condi	ition?					No							
<u> </u>	improve or make repairs to extend t	he useful life of a b	uilding?					Yes							
6. Is this a request to	purchase apparatus/equipment that	is intended to be p	permanently insta	lled at the location	n of its use?			No							
	repair or otherwise improve public p	<u> </u>						No							
8. Will any other depart	artment be required to provide assis	tance in order to co	omplete the proje	ct?				No							
9. If funded, will this p	project increase the operating expen	se for any other de	partment?					No							
.,	0,000 How was the Project			In-House Estim	ate										
Budget Impact: Neg	egligible impact on the annual operati	ing expenses less th	nan \$5,000												
Project Budget I	Elements Project Budget	2020	2021	2022	2023	2024	2025	20	026						
Planning/Feasibility	\$50,000					\$50,0	000								
Design/Engineering	\$0														
and/ROW Acquisition	n \$0														
iite Preparation	\$0														
Construction	\$0														
onstruction Managem	-														
quipment	\$0														
urniture, Fixtures, and															
echnology Hardware/															
Other Expenses	\$0														
ΓΟΤΑL	\$50,000	\$0	Ş	0	\$0	\$0 \$50,0	00	\$0	\$						

		Capital Project Request		
Project Title:	Daley Building Upgrades	Fis	scal Year:	2024

Project Description and Considerations

Project Summary

- The Daley Building is utilized by Building Maintenance trades staff and supervisors as a shop. This building was originally constructed as a warehouse for the School Department, and additions have been constructed over the years. It has been retrofitted for trades work stations, but the design of the building is not conducive to utilize the space as such. The height and location of the loading dock prevents it from being used as such. Vehicles often get stuck in inclement weather because the loading dock is at an incline. The existing bathroom is insufficiently small and does not contain a shower facility. Staff based out of this building regularly handle materials that would require them to use a shower. The ceilings are too high for trades and office space use. Two supervisors are based out of this building and are often competing with the shop noises and dust. All eleven trades are required to track their work through a web based work order system, SchoolDude, and research parts on a computer and there is not an appropriate space to do so. The building is not currently tied into the Town sewage system and has a septic tank. All eight of the heavy overhead doors are manually operated. The existing electrical service is undersized for the building's use. The existing lighting system is outdated, not energy efficient, and insufficient, causing safety hazards because of the type of work being done in the building. None of the floor drains are operational, causing slippery floor conditions. The building does not have a sufficient number of exhaust fans to remove fumes when vehicles are in the building or when work is being done in the building. There is an existing break room for staff to take their lunch, but it does not include a sink or a window. The driveway and parking lot are in poor condition, causing even more problems for the number of vehicles in and out of there daily.
- The plan is to conduct a feasibility study to determine how to better utilize the existing space. Significant upgrades would be considered, with a focus on possible reconfigurations to provide a better working environment.

Clarification of Questions

- 3. The feasibility study could lead to construction that may trigger Planning Board, Building Department, and Conservation approval.
- 4. There will be some technology upgrades necessary.
- 5. This is a Building Maintenance request.
- 15. This request is primarily to extend the life of the building or identify alternatives.

				Capital	Project Request					
Project Title:	CATH Space Uti	lization Study						Fiscal Year:		2023
Purpose:	Feasibility Study		Classification:	Building		Status:	Information	al Only Details Incom	plete	
Department:	Public Works - Bu	ilding Maintenance				Supports:	Community	Services		
Partners:	Health and Huma	n Services, Council on	Aging			Useful Life:	More than f	ive (5) years		
				<u>Parameters</u>	<u>s</u>					Response
1. Are there any co	sts to bid, design,	construct, purchase, i	nstall, implement	, or otherwise co	mplete the project w	hich are NOT incl	uded is this reques	st?	No	
2. Are there recom	mendations or cos	sts identified by other	departments whi	ich are NOT facto	red into the request?)			No	
3. Does this project	t require any perm	itting by any Town or	State agency?						No	
4. If this request is	for Technology, ha	as the Department cor	mmunicated with	ITC, and does ITC	support the request	?			No	
5. If this request is	for Building Impro	vements, has the Dep	artment commur	nicated with the B	uilding Maintenance	(BM) division, ar	nd does BM suppor	rt the request?	Yes	
6. If funded, will ad	lditional permaner	nt staff be required?					Total New F	TE's: 0	No	
7. If funded, will the	e operating budge	t need to be increased	d to cover operat	ing expenses?				_	No	
8. If funded, will the	is project lower th	e requesting Departm	ent's operating c	osts?					No	
9. If funded, will the	is project require o	ongoing assistance fro	m vendors at an	additional expens	e to the Town which	is NOT already b	udgeted?		No	
10. If the project is	NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized tr	aining or annual li	censing required that	the Town will nee	ed to pay in order	to use the asset?				No	
12. Is this a project	for which an Initia	al Eligibility Project Ap	plication can be f	iled with the Com	munity Preservation	Committee (CPC)?		No	
13. Is this a request in response to a Court, Federal, or State order?									No	
14. Is this a request	t in response to a	documented public he	alth or safety cor	ndition?					No	
15. Is this a request	t to improve or ma	ike repairs to extend t	he useful life of a	building?					Yes	
16. Is this a request	t to purchase appa	ratus/equipment that	is intended to be	e permanently ins	talled at the location	of its use?			No	
17. Is this a request	t to repair or othe	rwise improve public p	property which is	NOT a building or	infrastructure?				No	
18. Will any other o	department be req	uired to provide assis	tance in order to	complete the pro	ject?				Yes	
19. If funded, will t	his project increas	e the operating expen	se for any other	department?					No	
Project Cost:	\$75,000	How was the Project	t Cost Determine	ed:	Industry Refere	nces				
Budget Impact:	Negligible impact	on the annual operat	ing expenses less	than \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility	У	\$75,000				\$7.	5,000			
Design/Engineering	g	\$0								
Land/ROW Acquisit	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures,		\$0								
Technology Hardwa	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$75,000	\$	0	\$0	\$0 \$75	,000	\$0	\$0	\$

		Capital Project Request	
Project Title:	CATH Space Utilization Study	Fiscal Year:	2023

Project Description and Considerations

Project Summary

- The Center at the Heights (CATH) building has increased programming and usage as well as extended its hours of operation since opening. Some current concerns are that the outdoor deck on the second floor and the restaurant-grade kitchen are not utilized to their full potential, and that the parking is inadequate.
- Funding is requested for a space utilization study and assessment of the building needs at the CATH. The study would focus on program, office, and clinical spaces within the building to ensure optimal utilization and program flexibility for participants. The study would also look at the current configuration of the outdoor deck with regards to usage, enhancing and expanding the utilization of the restaurant-grade kitchen, and a thorough review of parking and building access challenges.

Changes from Prior Submission Year

• The price has increased based on an updated quote from a consultant.

Clarification of Questions

- 5. This is a Building Maintenance request.
- 15. This request is to improve the usage of the existing space and possibly improve it, depending on the results of the feasibility study.
- 18. Assistance will be required from the Council on Aging and the Department of Health and Human Services.

				Capital Pr	oject Request					
Project Title: C	ATH Generator							Fiscal Year:	2	2023
Purpose: D	esign/Engineering	Cla	ssification:	Building		Status:	New Request			
Pepartment: P	ublic Works - Buildi	ng Maintenance				Supports:	Other (see below	w for information)		
artners:						Useful Life:	Between eightee	en (18) and twenty	-five (25) ye	ears
_				<u>Parameters</u>		_			Re	sponse
Are there any costs	to bid, design, con	struct, purchase, inst	all, implement, c	r otherwise comp	lete the project wh	nich are NOT inclu	ided is this request?		No	
. Are there recomme	endations or costs i	dentified by other de	partments which	are NOT factored	d into the request?				No	
. Does this project re	equire any permittii	ng by any Town or St	ate agency?						Yes	
. If this request is fo	r Technology, has th	ne Department comn	nunicated with IT	C, and does ITC su	upport the request?)			No	
. If this request is fo	r Building Improven	nents, has the Depart	ment communic	ated with the Buil	ding Maintenance	(BM) division, an	d does BM support th	e request?	Yes	
. If funded, will addi							Total New FTE's		No	
. If funded, will the o	pperating budget ne	eed to be increased to	cover operating	g expenses?				•	Yes	
. If funded, will this	project lower the re	equesting Departmen	t's operating cos	ts?					No	
	-	oing assistance from			to the Town which	s NOT already bu	dgeted?		No	
0. If the project is N	OT funded, will curi	rent Town revenue be	e reduced?	·			-		No	
1. Is specialized train	ning or annual licen	sing required that the	Town will need	to pay in order to	use the asset?				No	
2. Is this a project fo	r which an Initial El	igibility Project Appli	cation can be file	d with the Comm	unity Preservation	Committee (CPC)	?		No	
3. Is this a request ir	response to a Cou	rt, Federal, or State o	rder?						No	
4. Is this a request ir	response to a doc	umented public healt	h or safety condi	tion?					No	
5. Is this a request to	o improve or make	repairs to extend the	useful life of a b	uilding?					No	
6. Is this a request to	o purchase apparat	us/equipment that is	intended to be p	ermanently instal	led at the location	of its use?			Yes	
7. Is this a request to	o repair or otherwis	se improve public pro	perty which is N (OT a building or in	frastructure?				No	
8. Will any other de	partment be require	ed to provide assistar	ice in order to co	mplete the projec	ct?				Yes	
9. If funded, will this	project increase th	ne operating expense	for any other de	partment?					No	
roject Cost: \$2	287,500 H	low was the Project (Cost Determined:		In-House Estima	te				
		the annual operating	expenses less th	an \$5,000						
Project Budge	t Elements	Project Budget	2020	2021	2022	2023	2024	2025	- :	2026
lanning/Feasibility		\$0								
esign/Engineering		\$37,500				\$37	,500			
and/ROW Acquisitio	n	\$0								
ite Preparation		\$0								
onstruction		\$250,000					\$250,0	00		
onstruction Manage	ement	\$0								
quipment		\$0								
urniture, Fixtures, ar		\$0								
echnology Hardware	e/Software	\$0								
ther Expenses		\$0								
OTAL		\$287,500	\$0	\$	_	\$0 \$37,	500 \$250,00	20	\$0	

		Capital Project Red	quest	
Project Title:	CATH Generator		Fiscal Year:	2023

Project Description and Considerations

Project Summary

- The Center at the Heights (CATH) was not built with an emergency generator. During the construction of the building, there was an ice storm that caused a power outage. The Town realized that there was no place for people to gather with an emergency backup generator that was not in use during the day, either because of school or office occupancy. The CATH was noted as an ideal place for this function, as it could provide a shelter and warming space in addition to the restaurant-grade kitchen. After it was constructed, a portable generator was added to the building. The existing portable generator requires a manual transfer switch to switch the electric load to run off of the generator. It does not support the entire building. It is also currently located in an inconvenient location, taking up a parking space in a parking lot that is already in high demand.
- The portable generator at the CATH will be removed and a permanent generator will be installed that has the capacity to carry the entire building. It will be installed in a more appropriate location. It will include an automatic transfer switch so that if the power goes out, the generator would automatically kick on instead of requiring staff to manually make the switch. The existing portable generator will be relocated to the Library and the connection will be reconfigured to be able to hook it up with a manual transfer switch.

Clarification of Questions

- 3. Would require Planning Board approval and Building Permits.
- 5. This is a Building Maintenance request.
- 7. Preventative maintenance, repairs on generator, and fuel will have to be included in operating expenses.
- 16. The generator will be permanently installed.
- 18. This project will need to be coordinated with the Department of Health and Human Services.

			Capital Proje	ect Request				
Project Title:	RTS Employee Trailer					F	iscal Year:	2024
Purpose:	Acquisition	Classification:	Building		Status:	Informational Only I	Details Incomplete	2
Department:	Public Works - RTS				Supports:	Utilities		
Partners:					Useful Life:	Between eighteen (1	L8) and twenty-five	e (25) years
			<u>Parameters</u>					<u>Response</u>
1. Are there any co	sts to bid, design, construct, purchase, i	nstall, implement,	or otherwise complet	e the project whic	h are NOT included	is this request?		
	mendations or costs identified by other		h are NOT factored in	ito the request?				
	require any permitting by any Town or							Yes
4. If this request is	for Technology, has the Department co	mmunicated with I	TC, and does ITC supp	ort the request?				Yes
5. If this request is	for Building Improvements, has the Dep	artment communic	cated with the Buildir	ng Maintenance (BI	M) division, and doe	es BM support the red	quest?	Yes
6. If funded, will ad	ditional permanent staff be required?					Total New FTE's:)	No
7. If funded, will th	e operating budget need to be increase	d to cover operatin	g expenses?					No
	is project lower the requesting Departm							No
9. If funded, will th	is project require ongoing assistance fro	m vendors at an ac	dditional expense to t	he Town which is I	NOT already budget	ed?		No
10. If the project is	NOT funded, will current Town revenue	e be reduced?						No
11. Is specialized tr	aining or annual licensing required that	the Town will need	I to pay in order to us	e the asset?				No
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								
13. Is this a request in response to a Court, Federal, or State order?								No
14. Is this a request	t in response to a documented public he	alth or safety cond	lition?					No
15. Is this a request	t to improve or make repairs to extend	the useful life of a b	ouilding?					No
16. Is this a request	t to purchase apparatus/equipment tha	t is intended to be p	permanently installed	l at the location of	its use?			No
17. Is this a request	t to repair or otherwise improve public	property which is N	OT a building or infra	structure?				No
18. Will any other of	department be required to provide assis	tance in order to co	omplete the project?					No
	his project increase the operating exper	ise for any other de	epartment?					No
Project Cost:	How was the Proje							
Budget Impact:	Negligible impact on the annual operat	ing expenses less tl	han \$5,000					
	get Elements Project Budget	2020	2021	2022	2023	2024	2025	2026
Planning/Feasibility	, \$0							
Design/Engineering								
Land/ROW Acquisit	tion \$0							
Site Preparation	\$0							
Construction	\$0							
Construction Mana	gement \$0							
Equipment	\$0							
Furniture, Fixtures,	and Equipment \$0							
Technology Hardwa	are/Software \$0							
Other Expenses	\$0							
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0								FY2020

		Capital Project Request	
Project Title:	RTS Employee Trailer	Fiscal Year:	2024

Project Description and Considerations

This informational request is for a new employee trailer at the Recycling and Transfer Station (RTS) to replace the existing one, which is a donated, second-hand trailer.

Project Summary

- The current employee trailer is over 15 years old. It is in poor condition and does not meet the space needs of the staff. It has frequent issues with the heating and cooling systems, and the electrical system is substandard. It is not ADA compliant, nor does it have adequate storage space. There is only one small bath facility that does not have a shower.
- This project will include the install ation of a new employee trailer in a more centrally located area of the facility and it shall be ADA accessible. The trailer will provide appropriate working conditions for all RTS staff, including shower facilities and laundry. The plumbing for this new employee trailer poses a significant cost in terms of reconfiguring the sewer at the RTS.

Clarification of Questions

- 3. This project will have to go to the Planning Board for Site Plan Review and will be subject to Conservation Commission permitting requirements.
- 4. The technology in the current employee trailer includes cable television. The RTS will communicate with ITC in terms of technology needed in the new employee trailer.
- 5. The RTS will communicate with the Building Maintenance Division to discuss future cleaning service requirements.

				Capital Pr	oject Request					
Project Title:	Library Space P	lanning Consultant						Fiscal Year:		
Purpose:	Feasibility Study		Classification:	Building		Status:	New Request			
Department:	Library					Supports:	Culture and Leisure	2		
Partners:	PPBC					Useful Life:	Between twelve (12	2) and eighteen (18	3) years	
				<u>Parameters</u>					Response	<u>}</u>
1. Are there any co	sts to bid, design,	construct, purchase, ir	nstall, implement,	or otherwise comp	lete the project whic	ch are NOT included	d is this request?		No	
2. Are there recom	mendations or cos	ts identified by other	departments which	ch are NOT factored	d into the request?				No	
3. Does this project	t require any perm	itting by any Town or	State agency?						No	
4. If this request is	for Technology, ha	is the Department cor	nmunicated with	ITC, and does ITC su	ipport the request?			No		
5. If this request is	for Building Impro	vements, has the Dep	artment commun	icated with the Buil	ding Maintenance (B	M) division, and do	oes BM support the re	equest?	No	
6. If funded, will ac	lditional permaner	nt staff be required?					Total New FTE's:		No	
7. If funded, will th	e operating budge	t need to be increased	l to cover operatii	ng expenses?					No	
		e requesting Departm							No	
9. If funded, will th	is project require o	ongoing assistance fro	m vendors at an a	idditional expense t	o the Town which is		No			
10. If the project is	NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized tr	aining or annual li	censing required that	the Town will nee	d to pay in order to	use the asset?				No	
12. Is this a project	for which an Initia	l Eligibility Project Ap	olication can be fi	led with the Comm	unity Preservation Co	ommittee (CPC)?			No	
13. Is this a reques	t in response to a (Court, Federal, or State	e order?						No	
14. Is this a request in response to a documented public health or safety condition?							No			
15. Is this a reques	t to improve or ma	ke repairs to extend t	he useful life of a	building?					Yes	
16. Is this a reques	t to purchase appa	ratus/equipment that	is intended to be	permanently instal	led at the location of	its use?			No	
17. Is this a reques	t to repair or other	wise improve public p	roperty which is I	NOT a building or ir	frastructure?				No	
18. Will any other	department be req	uired to provide assist	tance in order to o	complete the projec	ct?				Yes	
19. If funded, will t	his project increas	e the operating expen	se for any other d	lepartment?					No	
Project Cost:	\$60,000	How was the Project	t Cost Determine	d:	Industry Reference	es				
Budget Impact:	Negligible impact	on the annual operati	ng expenses less	than \$5,000						
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026	
Planning/Feasibility	/	\$60,000	\$60,00	0						
Design/Engineering	3	\$0								
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	igement	\$0								
Equipment		\$0								
Furniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$60,000	\$60,000	0 \$	0 \$0	\$(\$0	\$0)	\$0
\$0									FY2	2020

		Capital Project Request	
Project Title:	Library Space Planning Consultant		Fiscal Year:

Project Description and Considerations

The library trustees desire to hire a professional library space planner to determine if the library's interior space could be better arranged to accommodate the many students and tutors that use the library's study rooms and study areas. In the afternoons, during the school year, the library is packed with students, tutors, and other people using the three study rooms, the row of carrels, and the many four-seat tables. The trustees are also interested in updating the furniture and exploring a set-up that would allow the library to use an automatic materials handler that would check in and sort returned materials.
15. A space-use rearrangement that replaces worn and chipped furniture with new and up-to-date items and creates a more efficient use of space will improve and increase the usefulness of the library's space and extend the library's life as a study and work place.
18. PPBC could possibly become involved.

				Capital Projec	t Request					
Project Title:	Cricket Field Buil	ding Renovation						Fiscal Year:		2020
ırpose:	Design/Engineerin	g CI	assification: B	Building		Status:	Amended Reque	st from the Prior	CIP	
epartment:	Park and Recreatio	n	<u>.</u>			Supports:	Culture and Leisu	re		
artners:	PPBC; Public Facilit	ies-Construction; DPW	; Health Division; S	School Department		Useful Life:	Between eightee	n (18) and twenty	/-five (25)	years
				<u>Parameters</u>	•					Response
. Are there any cos	sts to bid, design, co	onstruct, purchase, ins	tall, implement, or	otherwise complete	the project which	are NOT includ	led is this request?		No	
. Are there recomr	mendations or cost	s identified by other de	partments which a	are NOT factored int	o the request?				No	
Does this project	require any permit	ting by any Town or St	ate agency?						Yes	
. If this request is f	for Technology, has	the Department comr	nunicated with ITC	, and does ITC suppo	ort the request?				No	
If this request is f	for Building Improve	ements, has the Depar	tment communicat	ted with the Building	Maintenance (BM	l) division, and	does BM support the	request?	No	
	ditional permanent						Total New FTE's:		No	
If funded, will the	e operating budget	need to be increased t	o cover operating e	expenses?			•		Yes	
. If funded, will thi	s project lower the	requesting Departmer	it's operating costs	?					No	
		ngoing assistance from			e Town which is N	OT already bud	geted?		No	
O. If the project is	NOT funded, will cu	urrent Town revenue b	e reduced?						Yes	
		ensing required that th		o pay in order to use	the asset?				No	
2. Is this a project	for which an Initial	Eligibility Project Appli	cation can be filed	with the Community	y Preservation Con	nmittee (CPC)?			Yes	
3. Is this a request	in response to a Co	ourt, Federal, or State	order?						No	
1. Is this a request	in response to a do	ocumented public heal	th or safety conditi	on?					No	
5. Is this a request	to improve or mak	e repairs to extend the	useful life of a bui	ilding?					Yes	
6. Is this a request	to purchase appara	atus/equipment that is	intended to be pe	rmanently installed	at the location of i	ts use?			No	
7. Is this a request	to repair or otherv	vise improve public pro	perty which is NO	T a building or infras	tructure?				No	
8. Will any other d	lepartment be requ	ired to provide assista	nce in order to com	nplete the project?					Yes	
9. If funded, will th	nis project increase	the operating expense	for any other depart	artment?					No	
roject Cost:	\$982,589	How was the Project	Cost Determined:	Н	ired Consultant					
		al operating expenses	between \$5,001 ar	nd \$25,000						
Project Budg		Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility	•	\$0								
esign/Engineering		\$163,765	\$163,765							
and/ROW Acquisit	ion	\$0								
te Preparation		\$0								
onstruction		\$818,824		\$818,824						
onstruction Mana	gement	\$0								
quipment		\$0								
urniture, Fixtures,	and Equipment	\$0								
echnology Hardwa	are/Software	\$0								
ther Expenses		\$0								
									\$0	

		Capital Project Request		
Project Title:	Cricket Field Building Renovation		Fiscal Year:	2020

Project Description and Considerations

Park and Recreation completed a feasibility study of the Cricket Field building with PPBC in March 2012. The study looked at (1) renovation of the building for current uses; (2) renovation of the building for year-round use; (3) construction of new building at same location; (4) construction of new building elsewhere on site. For the renovation options, code upgrades, including ADA, are included. Extensive work on the grounds is also required for accessibility. "Option 1 Modified" is used for the request, which is an update of the current layout for seasonal use only and a septic field. Option 1, without modifications, or a new modular building would be more than \$100,000 of additional costs. The design costs would also include a survey that is required for a building permit.

Since the 2012 study, Park and Recreation now has an indoor programming space at the Rosemary Recreation Complex. The Cricket building is still needed for a summer program site as well as interior space for Needham High School sports, but some of the interior features can be simplified reducing the cost of construction.

The original estimate was created in 2012 by consultant Bargmann Hendrie + Archetype, Inc., with a 10% contingency. It is recommended to escalate the estimate by 5% annually, or review if a significant period of time passes. The numbers in this request have therefore been increased from the original estimate. The design/engineering costs were based on 20% of total project estimate.

The building is currently used for (a) Park and Recreation summer program; (b) Needham High Girls Soccer and Girls Lacrosse; (c) storage for Park and Recreation programs; and (d) storage for DPW Parks and Forestry. It is hoped that the building could be utilized for these purposes, and that public restrooms for those using the playgrounds or athletic fields would be available. The chosen option would also create an accessible building, and site work would add appropriate accessible parking. Approval of a new septic system as opposed to a sewer system would help reduce the cost of construction. The 1964 wood structure building is approximately 1,250 square feet. Without renovations, it will become more difficult to use it for the summer program, which would also be a loss of revenue of approximately \$30,000 as it isn't likely another site in Town would be available to accommodate the program. Donations have been made for other projects at the park, totaling about \$200,000. Those projects include the rebuilding of the athletic fields, addition of new playground equipment, and a bubbler and garden with park benches.

Any portion of the project related to outdoor recreation would be eligible for CPA funding, but indoor recreation is not eligible. Permits would be required from the Needham Health Department and the Planning Board. The costs do not include any unanticipated requirements of the permits. At some point, without renovation, the building will not be available for use by Park and Recreation for its summer program or by Needham High School Athletics. The loss of the summer program location would lead to a loss in revenue. Costs to use Cricket Field would increase for Needham High Athletics.

Currently, the building's restrooms are only used by Park and Recreation's summer program, as well as the Needham High teams. No other park user has access to the restrooms, so creating restrooms that are available to the park will increase the cost for cleaning by an outside firm as additional days would be needed for cleaning.

				Capital Proje	ect Request				
Project Title:	Pollard School Impr	rovements						Fiscal Year:	2027
Purpose:	Construction	Clas	ssification: Buildin	ıg	Sta	itus:	Same Request from	n the Prior CIP	
Department:	Needham Public Scho	ols			Su	oports:	Public Education		
Partners:	Massachusetts Schoo	l Building Authority; PF	PBC		Us	eful Life:	More than twenty-	five (25) years	
			<u>Para</u>	ameters					<u>Response</u>
L. Are there any co	osts to bid, design, cons	struct, purchase, instal	l, implement, or other	wise complete t	the project which ar	e NOT included	d is this request?		Yes
2. Are there recon	nmendations or costs ic	dentified by other depart	artments which are NO	T factored into	the request?				No
. Does this projec	ct require any permittin	ng by any Town or State	e agency?						Yes
I. If this request is	s for Technology, has th	e Department commu	nicated with ITC, and d	oes ITC suppor	t the request?				Yes
. If this request is	s for Building Improvem	ents, has the Departm	ent communicated wit	th the Building	Maintenance (BM)	division, and do	oes BM support the i	equest?	Yes
i. If funded, will a	dditional permanent st	aff be required?					Total New FTE's:		No
. If funded, will tl	he operating budget ne	ed to be increased to	cover operating expens	es?					Yes
3. If funded, will th	his project lower the re	questing Department's	s operating costs?						No
). If funded, will th	his project require ongo	oing assistance from ve	endors at an additional	expense to the	Town which is NO	already budge	ted?		No
.0. If the project is	s NOT funded, will curr	ent Town revenue be r	educed?						No
.1. Is specialized t	raining or annual licens	sing required that the	Γown will need to pay i	n order to use t	the asset?				No
2. Is this a projec	t for which an Initial Eli	gibility Project Applica	tion can be filed with t	he Community	Preservation Comm	ittee (CPC)?			No
.3. Is this a reque:	st in response to a Cour	rt, Federal, or State ord	der?						No
4. Is this a reque	st in response to a docu	mented public health	or safety condition?						No
.5. Is this a reque	st to improve or make r	epairs to extend the u	seful life of a building?						Yes
6. Is this a reque	st to purchase apparatu	us/equipment that is in	itended to be permane	ntly installed a	t the location of its	use?			No
.7. Is this a reque:	st to repair or otherwis	e improve public prope	erty which is NOT a bui	lding or infrast	ructure?				No
.8. Will any other	department be require	d to provide assistanc	e in order to complete	the project?					Yes
9. If funded, will	this project increase th	e operating expense for	or any other departmer	nt?					Yes
roject Cost:	\$101,239,500	How was the Project Co	ost Determined:	Hir	red Consultant				
Sudget Impact:	May increase annual	operating expenses by	more than \$100,000						
Project Bu	dget Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
lanning/Feasibili	ty	\$0							
esign/Engineerir	ng	\$0							
and/ROW Acquis	sition	\$0							
ite Preparation		\$0							
Construction		\$0							
onstruction Man	agement	\$0							
quipment		\$0							
urniture, Fixtures	s, and Equipment	\$0							
echnology Hardv	vare/Software	\$0							
		\$0							
Other Expenses									

Capital Project Request Project Title: Pollard School Improvements Fiscal Year: 2027

Project Description and Considerations

In 2011, a facilities assessment was conducted of the Mitchell, Hillside and Pollard Schools. This assessment identified repair projects that should be undertaken to extend the useful life of these school buildings. It also identified, in summary fashion, the need for programmatic improvements at the Pollard Middle School, for the purpose of adapting Pollard to the "21st Century Learning" environment. This environment reflects changes in education that have occurred over the past 50 years, including technology integration, project-based learning, team-teaching, multi-disciplinary collaboration and special education delivery methods. Dore & Whittier, the architects who conducted the facilities assessment, concluded that a detailed programmatic study be undertaken, in order to understand the full scope of the programmatic improvements needed and to ensure that any future renovation/improvement project be comprehensive enough to meet both the facility maintenance and programmatic needs of the school for the next several decades.

Many of the improvements identified in the facilities assessment have been, or will be, completed through the regular maintenance program. These include: bathroom renovation; interior door replacement; installation of LED exist signs; roof repair; installation of new gas main on Harris Ave.; replacement of the telephone, PA and clock systems; replacement of the paved walkway from the parking lot to the building; water fountain replacement; demolition of the condemned bridge; auditorium seating replacement; gym flooring replacement; removal of remaining VCT aand VAT flooring in the 1958 wing; water heater replacement; removal and abatement of the fuel oil tank; boiler replacement; classroom lighting replacement; asbestos abeatement.

Other identified improvements, however, will not be undertaken as part of the regular maintenance budget. These include: renovation and enlargement of the science and engineering classrooms, updates to the auditorium and reconfiguration of the administration area. The science classrooms are undersized from Massachusetts School Building Authority (MSBA) standards, do not have adequate prep rooms or storage spaces and include casework and plumbing fixtures that are in poor condition. The engineering classroom is a converted space that is not well-suited to delivery of the curriculum. The auditorium needs updating, including sound and lighting upgrades, in order to remain a suitable space for performing arts, guest lectures and assemblies. In addition, the administration space, which is located on the side of the building, is difficult for visitors to locate, doesn't allow school personnel to view visitors as they approach the building and is undersized by MSBA standards. Finally, the modular classrooms, constructed in 2002, are not designed as permanent, long-term facilities. They are constructed of inexpensive materials, in fast-production style construction techniques and are not energy efficient. A long-term solution will be required within the next fifteen years. (The expected lifespan for modular classrooms is 20-25 years.)

This request is for funds to repair/renovate the Pollard Middle School to address identified deficiencies and meet programmatic needs. The projected cost was developed by Needham Public Schools, based on improvements identified in the Condition Assessment, which Public Facilities does NOT expect to undertake from its regular maintenance budget. These projects include the following: Replace Doors (#1.03 \$113,880), Renovate Exit Corridors Near Band Room (#1.17 \$131,400), Remove Borrowed Lights in 1958 Building (#2.02, \$47,085), Sprinkler Remaining Building (#2.03, \$1,620,600), New Science Classroom Addition Option 3 (#3.01.3, \$6,745,200), Relocate Administration & Convert Existing Administration to Classroom (#3.02, \$1,423,500), Renovate Multi-Stall Toilet Rooms Near Auditorium (#3.03, \$952,650), Renovate Auditorium (HVAC, Light, Flooring, Seating) (#3.08, \$2,392.575), Replace Existing Signage (#4.05, \$4,380), Upgrade Elevator Controls (#4.07, \$43,800), Accessibility Improvements to Choral Room & Lecture Hall (#4.08, \$19,710), Sell or Demolish Modular Classrooms (#5.1, \$9,855), Replace Water Distribution Piping (#5.15, \$416,100), Replace Classroom Sinks (#5.17, \$76,650), Remove Pneumatic Control System & Replace with Electronic (#5.19, \$697,515), Replace Classroom Unit Ventilators & Repairs to Roof (#5.21, \$660,285), In Core & Assembly Areas & Replace with VAV Heat/Cool RTUs (#5.22, \$1,018,350), Electrical Service Upgrade (#5.24, \$996,450), Replace Fire Alarm Control Panels (#5.25, \$48,180), Replace PA System Head End (#5.26, \$52,000), New Site Drainage Structures & Pipe (#5.28, \$181,770), and Provide New Server & Water Line Connections (#5.29, \$153,300.) The cost of item #3.01.3 is based on "Science Option 3," which constructs a 14,500 s.f. science wing addition to the school. A Statement of Interest will be filed with the MSBA to initiate a dialog about this facility. It is possible that a modified project scope could be considered. Final decisions will be made upon project acceptance and a feasibility study, c

Preliminary Project Schedule:

Feasibility Study: FY27

Schematic Design/Project Funding Year: FY28

Pollard Moves to Swing Space: FY29

Construction: FY29-30

		Capital Project Request	
Project Title:	Pollard School Improvements	Fiscal Year:	2027

Supplemental Information

Preliminary Budget:

Project costs based on Dore & Whittier Facilities Assessment, 2014. The total project cost is updated to reflect the following cost escalator factors:6%/year (FY14-FY16), 5.0%/year (FY17-18), 10.0%/year (FY19-20), and 8%/year thereafter. The preliminary MSBA reimbusement rate for this project is 32.47%.

<u>Parameters Addressed:</u>

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

Building Improvements: The PPBC and Public Facilities Department support this request.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised

during design process.

Extend Useful Life: See above narrative.

Other Departmental Assistance: PPBC Project Management; Public Facilities Maintenance & Custodial.

Operating Budget Increase for Another Department: See above.

Pollard Improvements Dore & Whittier, Comprehensive Facilities Assessment, 2014

	Construction
From Condition Assessment - Pollard Long-Term Improvements	
1.03 Replace Corridor/Doors w Fire Rated Doors	113,880
1.17 Renovate Exit Corridors Near Band Room	131,400
2.02 Remove Borrowed Lites in 1958 Building	47,085
2.03 Sprinkler Remaining Building	1,620,600
3.01.3 New Science Classroom Addition (Option 3)	6,745,200
3.02 Relocate Admin, Convert Existing Admin to Classrooms	1,423,500
3.03 Multi-Stall Toilet Rooms Near Auditorium	952,650
3.08 Renovate Auditorium AHVAC, Lighting, Flooring, Seating	2,392,575
4.05 Replace Existing Signage	4,380
4.07 Upgrade Elevator Controls	43,800
4.08 Accessibility Improvements to Choral Room & Lecture Hall	19,710
5.1 Sell or Demolish Modular Classrooms; Regrade Area	9,855
5.15 Replace Water Distribution Piping	416,100
5.17 Replace Classrom Sinks	76,650
5.19 Remove Pneumatic Control System & Replace with Electronic	697,515
5.21 Replace Classroom Unit Ventilators, Repairs to Roof	660,285
5.22 In Core & Assembly Areas, Replace with VAV Heat/Cool RTUs	1,018,350
5.24 Electrical Service Upgrade	996,450
5.25 Replace Fire Alarm Control Panels	48,180
5.26 Replace PA System Head End	52,000
5.28 New Site Drainage Structures & Pipe	181,770
5.29 Provide New Server & Water Line Connections	153,300
Subtotal Condition Assessment Cost	17,805,235

<u>Assume</u>

Feasiblity - 1 year Design - 1 year Construction - 2 Years

<u>Assume</u>

Feasiblity Funding Year - FY27
Project Funding Year - FY28
Midpt of Constr - FY29 (15 Years Escalation)

		Capital Project Requ	uest		
oject Title:	Pollard School Improvements			Fiscal Year:	2027
	General Conditions Allowance	1,780,524	10% of construction	6.00% FY15 & FY16	
	Escalation to Mid Point of Construction	39,099,618	15 Yrs to 2029	5.00% FY17 & FY18	
	Subtotal A Construction	58,685,376		10.00% FY19 & FY20	
				8.00% After FY20	
	Bonds		1% of Subtotal A		
	Insurance		1% of Subtotal A		
	Subtotal B Construction	59,859,084			
	Fee	534,157	3% of Condition Assessment Cost		
	Design & Pricing		15% of Subtotal B		
	Total Construction Cost	69,372,103			
	Project Contingency - Construction	10.405.816	15% of Total Construction		
	Project Contingency - Owner		5% of Total Construction		
	Subtotal Contingency	13,874,421			
	Soft Cost (OPM, A/E, Survey, etc)	17,343,026	25% of Total Construction		
	FF&E				
	Total	100,589,550			
	_Summary				
	Construction Cost	69,372,103			
	Project Contingency	13,874,421			
	Soft Cost	17,343,026			
	FF&E				
	Total	100,589,550	(Excluding Feasibility)		
		Total	Rounded Total		
	Feasibility	650,000	650,000		
	Schematic Design	13,874,421	13,874,400		
	Construction	79,777,919	79,777,900		
	Owners Project Contingency (Other)	3,468,605	3,468,600		
	Construction Management	3,468,605	<u>3,468,600</u>		
	Total	101,239,550	101,239,500		

				Capital Pro	ect Request					
Project Title: Ren	ovate Mitcl	nell Elementary School						Fiscal Year:	202	2 1
Purpose: Con	struction	CI	assification: Buil	ding		Status:	Amended Reques	st from the Prior (CIP	
- Prof. of the contract of the	dham Public					Supports:	Public Education			
Partners: Mas	sachusetts So	chool Building Authority; Pl	PBC			Useful Life:	More than twenty	y-five (25) years		
				<u>Parameters</u>					Respo	nse
. Are there any costs to	bid, design,	construct, purchase, instal	l, implement, or othe	rwise complete	the project which	are NOT included	is this request?		Yes	
. Are there recommend	dations or cos	sts identified by other depa	artments which are N	OT factored int	o the request?				No	
. Does this project requ	uire any perm	itting by any Town or Stat	e agency?						Yes	
. If this request is for T	echnology, ha	as the Department commu	nicated with ITC, and	does ITC suppo	rt the request?				Yes	
. If this request is for B	uilding Impro	vements, has the Departm	ent communicated w	rith the Building	Maintenance (BM	1) division, and doe	es BM support the requ	uest?	Yes	
. If funded, will additio	nal permaner	nt staff be required?					Total New FTE's:	4	Yes	
. If funded, will the ope	erating budge	t need to be increased to o	cover operating exper	ises?					Yes	
	•	e requesting Department's							No	
. If funded, will this pro	oject require	ongoing assistance from ve	endors at an additiona	I expense to th	e Town which is N	OT already budgete	ed?		No	
0. If the project is NOT	funded, will	current Town revenue be r	reduced?						No	
		censing required that the 1							No	
		al Eligibility Project Applica		the Community	Preservation Con	nmittee (CPC)?			No	
		Court, Federal, or State ord							No	
		documented public health							No	
		ake repairs to extend the u							Yes	
		aratus/equipment that is ir				ts use?			No	
		rwise improve public prope			tructure?				No	
		uired to provide assistance	· · · · · · · · · · · · · · · · · · ·						Yes	
9. If funded, will this p	roject increas	e the operating expense for	or any other departme	ent?					Yes	
,	2,524,200	How was the Project Co			Hired Consultant					
,		nual operating expenses by								
Project Budget E	lements	Project Budget	2020	2021	2022	2023	2024	2025	2026	6
lanning/Feasibility		\$650,000		\$650,000						
esign/Engineering		\$15,538,900				\$15,538	900			
and/ROW Acquisition		\$0								
ite Preparation		\$0								
onstruction		\$89,349,500				\$89,349				
onstruction Managem	ent	\$3,884,700				\$3,884	.700			
quipment		\$0								
urniture, Fixtures, and		\$0								
echnology Hardware/S	oftware	\$3,101,100				\$3,101	100			
Other Expenses		\$0								
			\$0						\$0	

	Capital Project Request		
Project Title:	Renovate Mitchell Elementary School	Fiscal Year:	2021

Project Description and Considerations

Constructed in 1950, the Mitchell Elementary School has undergone several additions over the past 50 years, but is in need of total renovation/replacement to address building deficiencies and modernize the learning environment. This request would bring the Mitchell facility to a level of modernization comparable to that of the Hillside School and is contingent upon the MSBA agreeing to partner with the Town in completing this project. It is possible that a modified project scope could be considered. Final decisions will be made upon project acceptance and a feasibility study, completed jointly with the MSBA. Project costs are based on a 2014 update of a 2012 Dore & Whittier Pre -feasibility estimate for an 82,227 s.f. 503-student school (Option 1A.3, New Construction), plus \$650,000 for pre-feasibility design. During construction, the school would need to occupy swing space at Hillside School.

A possible schedule for the Mitchell Elementary School Renovation project is shown below, based on Needham's experience with the Hillside Renovation Project with MSBA. A parallel project to update the Hillside Elementary School as swing space is presented separately. The total cost of the project may vary from the existing estimates, based on the combined scope and MSBA's participation in the Mitchell project development.

Potential**S**chedule

Submit SOI 100 MSBA 14 FY20) PFeb 1220 PApr 1220)

MSBABoard Meeting 10 of the SOI FY21) 12 Apr 120 12 Aug 120

Feasibility@FY21-22)-@Oct@20@STM)

Funding@@Oct@20@STM

Bidding Feasibility 30ct 2030 ec 20

Designer®election@waMSBA@aand21@aMard21

Feasibility Study Mar 221 Dun 22

PDPBMard21BAugd21

PSRB\$eptd21Bband22

MSBABoard Meeting To Accept Feasibility Tan 22

Schematic Design Mitchell FY22-23)

Schematic Design and 22 and und 22

DRT@Review@@Feb@22

MSBA/DESEReview@May@22@un@22
Submit@chematic@Design@o@MSBA@@un@22

NeedhamBoardsApproveSchematicDesignJun222@20uly222

MSBABoard Meeting 20uly 22

Project Funding FY23)

Submit Ballot Question 10 Secretary 10 ft State 12 Aug 12 2 2

 $Special \hbox{\it 2} Town \hbox{\it 3} Meeting \hbox{\it 2} \hbox{\it 3} Oct \hbox{\it 2} 22$

Override Ballot Question Nov 22

Project Funding Agreement Nov 223 Dec 22

Design@Development@FY23)

Design®Development®Review®Dec@22®@une@23
MSBAReview®®Approval®May@23®@un@23

Construction Documents FY24 PFY24)

60%IConstructionIDocumentsIDevelopedIIIuli23IIIOctil23

60% Submittal Ito IMSBA INDct I 23

90% Construction Documents Developed Nov 232 and 24

90% Submittal Ito IMSBA II an I 24

Completion Tonstruction Tocs Mar 24

Bidding Documents / Procurement | FY24-FY25) - Apr 224 Pauly 225

Construction@FY25-27)@Aug@24@Aug@26 NewBuilding@Dpens@FY27)@Sept@26

This project has been updated to reflect the following cost escalator factors: 6%/year (FY14-FY16), 5.0%/year (FY17-18), 10.0%/year (FY19-20), and 8%/year thereafter.

Parameters Addressed:

Project Costs Not Included: Cost of Design and Construction of Combined Project.

Permitting: As required by Town Boards.

Technology: The School IT Department is in support of this request. The estimated project cost includes an FF&E budget for this new facility, including classroom technology.

Building Improvements: The PPBC and Public Facilities Department support this request.

FTE: Estimate 2.0 Additional Custodians; 2.0 Additional Crossing Guards, Similar to Hillside.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance by more than \$100,000/ye ar. This placeholder estimate to be revised during design

process.

Capital Project Request						
Project Title:	Renovate Mitchell Elementary School	Fiscal Year:	2021			

Supplemental Information

Parameters Addressed:

Extend Useful Life: See above narrative.

Other Departmental Assistance: PPBC Project Management; Public Facilities Maintenance & Custodial.

Operating Budget Increase for Another Department: See above.

This project is revised from the previous request to reflect a 10% cost escalator for FY19 and FY20 (due to construction labor market trends and tariffs) and 8% thereafter, based on advice from the PPBC.

Mitchell School Renovation/ Replacement, Based on 2014 Dore & Whittier PreFeasibility Study Option 1A.2a, New School Construction for 503 Students, Updated 2014 Scheduled opening: September 2026 (FY27)

	82,227 SF Building	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	Cost/SF
	FY14 Project Cost (D&W) - Mitchell	650,000	34,781,640	6,048,928	1,207,200	1,512,232	44,200,000	
	TOTAL	650,000	34,781,640	6,048,928	1,207,200	1,512,232	44,200,000	\$538
		1%	79%	14%	3%	3%	100%	
6.00%	FY15 Cost Multiplier	650,000	36,868,538	6,411,864	1,279,632	1,602,966	46,813,000	\$569
6.00%	FY16 Cost Multiplier	650,000	39,080,651	6,796,576	1,356,410	1,699,144	49,582,780	\$603
5.00%	FY17 Cost Multiplier	650,000	41,034,683	7,136,404	1,424,230	1,784,101	52,029,419	\$633
5.00%	FY18 Cost Multiplier	650,000	43,086,417	7,493,224	1,495,442	1,873,306	54,598,390	\$664
10.00%	FY19 Cost Multiplier	650,000	47,395,059	8,242,547	1,644,986	2,060,637	59,993,229	\$730
10.00%	FY20 Cost Multiplier	650,000	52,134,565	9,066,802	1,809,485	2,266,700	65,927,552	\$802
8.00%	FY21 Cost Multiplier	650,000	56,305,330	9,792,146	1,954,244	2,448,036	71,149,756	\$865
8.00%	FY22 Cost Multiplier	650,000	60,809,757	10,575,517	2,110,583	2,643,879	76,789,736	\$934
8.00%	FY23 Cost Multiplier	650,000	65,674,537	11,421,559	2,279,430	2,855,390	82,880,915	\$1,008
8.00%	FY24 Cost Multiplier	650,000	70,928,500	12,335,284	2,461,784	3,083,821	89,459,389	\$1,088
8.00%	FY25 Cost Multiplier	650,000	76,602,780	13,322,106	2,658,727	3,330,527	96,564,140	\$1,174
8.00%	FY26 Cost Multiplier	650,000	82,731,003	14,387,875	2,871,425	3,596,969	104,237,271	\$1,268
8.00%	FY27 Cost Multiplier	650,000	89,349,483	15,538,905	3,101,139	3,884,726	112,524,253	\$1,368
13 `	Years TOTAL PROJECT COST	650,000	89,349,483	15,538,905	3,101,139	3,884,726	112,524,253	1,368
	TOTAL COST (ROUNDED)	650,000	89,349,500	15,538,900	3,101,100	3,884,700	112,524,300	\$1,368
	* Excludes modular temporary classrooms							
	Square Footage		82,227					
	Feasibility Arch/Engineering	FY21 650,000	FY23 15,538,900	FY24	650,000 15,538,900			
	Construction	0			89,349,500			
		U			3,884,700			
	Construction Management FF&E		3,884,700 3,101,100	0				
	· · · · · · · · · · · · · · · · · · ·			<u>0</u>	3,101,100			
	Total	650,000	111,874,200	-	112,524,200			

				Capital Proje	•					
Project Title: Rer	novate Hillsi	de Elementary School	as Swing Space f	or School Const	ruction Projects			Fiscal Year:		2020
Purpose: Con	struction	Cla	ssification: Bu	ıilding		Status:	Amended Requ	uest from the Prio	r CIP	
Department: Nee	edham Public S	Schools				Supports:	Public Education	on		
Partners: PPB	SC .					Useful Life:	Between twelv	e (12) and eightee	n (18) yea	rs
				<u>Parameters</u>						Response
1. Are there any costs to	o bid, design,	construct, purchase, inst	all, implement, or o	otherwise comple	te the project whic	h are NOT includ	led is this request?)	Yes	
2. Are there recommen	dations or cos	sts identified by other de	partments which a	re NOT factored i	nto the request?				No	
3. Does this project req	uire any perm	itting by any Town or Sta	ite agency?						Yes	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?								Yes		
5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request?								Yes		
5. If funded, will addition	nal permaner	nt staff be required?					Total New FTE	's: 4	No	
7. If funded, will the operating budget need to be increased to cover operating expenses?								Yes		
8. If funded, will this pro	oject lower th	e requesting Department	's operating costs?						No	
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?								No		
10. If the project is NOT funded, will current Town revenue be reduced?								No		
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								No		
13. Is this a request in response to a Court, Federal, or State order?								No		
14. Is this a request in response to a documented public health or safety condition?								No		
15. Is this a request to improve or make repairs to extend the useful life of a building?								Yes		
16. Is this a request to բ	purchase appa	ratus/equipment that is	intended to be per	manently installe	d at the location of	its use?			No	
17. Is this a request to r	repair or othe	rwise improve public pro	perty which is NOT	a building or infr	astructure?				No	
18. Will any other depa	rtment be req	uired to provide assistan	ce in order to com	plete the project?)				Yes	
19. If funded, will this p	roject increas	e the operating expense	for any other depa	rtment?					Yes	
Project Cost: \$28	,599,900	How was the Project C	ost Determined:		Hired Consultant					
Budget Impact: May	y increase ann	ual operating expenses b	y more than \$100,	.000						
Project Budget E	lements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$225,000	\$100,000							\$125,0
Design/Engineering		\$3,922,800		\$3,922,800						
and/ROW Acquisition		\$0								
Site Preparation		\$0								
Construction \$		\$21,016,700			\$21,016,700					
Construction Management		\$980,700			\$980,700					
quipment		\$0								
urniture, Fixtures, and	l Equipment	\$0								
Technology Hardware/S	Software	\$2,454,700			\$2,454,700					
Other Expenses		\$0								
TOTAL		\$28,599,900	\$100,000	\$3,922,800	\$24,452,100		\$0	\$0	\$0	\$125,00
\$0			. ,		, ,			-	-	FY20

Capital Project Request

Project Title: Renovate Hillside Elementary School as Swing Space for School Construction Projects

Fiscal Year:

2020

Project Description and Considerations

This is a project to modernize the existing Hillside School for use as swing space for other school projects, after the new Sunita Williams Elementary School opens in September 2020 (FY21.)

A potential schedule for use of this facility as swing space is: Use A Emery Grover Renovation (Aug '22 - July '24), Use B Mitchell Renovation (Aug '24 - June '26), and Use C Pollard
Renovation (Aug '28 - Aug '29.) This schedule assumes that modernization will occur in multiple phases, with minor interior modifications occurring for the Emery Grover occupation, and
more substantial modifications occurring to accommodate the Mitchell and Pollard School populations.

Given the long time-line and design variables associated with this project, the potential project schedule below reflects interim uses A (Emery Grover) and B (Mitchell School) only. The overall project cost also is a placeholder, based on the "Option A" 'Base Repair' project estimate developed by Dore & Whittier Architects in 2014, which updates all major building systems to comply with current codes and reulgations. The scope, timeline and budget of a final project would depend on the outcome of the feasibility studies below and could take various forms. (For example, an alternate project could tear down the facility and construct a modular classrooms campus.) The scope of the 'Option A' base repair budget does NOT include adding the modular classrooms that would be needed to accommodate the Mitchell School population or a full grade of Pollard students. The Feasibility Study scope should include a comparative analsis of the relative cost effectiveness of an alternate project to demolish the school and create modular swing space on this site, should reflect the smallest renovation scope possible, and should include the needed modular component.

This project is revised from prior years to reflect the timeline below and the following cost escalators: 6%/year (FY14-FY16). 5.0%/year (FY17-18). 10.0%/year (FY19-20). and 8%/year thereafter Potential chedule

Feasibility@funding@for@Interim@Uses@A@&@B@@FY20)@May@19@ATM

Funding@for@Detailed@Design@@FY21)@May@20@ATM

DesignaBiddingaaMay220aaAug220

SchematicaDesignatoranterimaUsesaPhasesaA,aB,aC)aSepta20a3Mara21

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Detailed Design & Bidding Phase AM May 221 B Dct 222

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 $Move \cite{The School} {\tt BAdministration} {\tt Biol} {\tt Billside} \cite{The School} {\tt Badministration} {\tt Biol} {\tt Bio$

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Exterior Construction 22 and 24 Aug 224

 $\label{lem:modular} Modular \ref{Modular} Relocation \ref{Modular} Aug \ref$

Mitchell \$\mathbb{G}\ccupies \mathbb{H}\tillside \mathbb{B}\mathbb{E}\mathbb

Remaining Schedule and Budget I to be Determined by Feasibility Study

<u>Parameters Addressed:</u>

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated project cost includes an FF&E budget for this new facility, including classroom

technology.

Building Improvements: The PPBC supports this request.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This is a placeholder estimate.

Extend Useful Life: See above narrative.

Other Departmental Assistance: PPBC Project Management; Public Facilities Maintenance & Custodial.

Operating Budget Increase for Another Department: See above.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance by more than \$100,000/year. This is a placeholder estimate.

Capital Project Request								
Project Title:	Renovate Hillside Elementary School as Swing Space for School Construction Projects	Fiscal Year:	2020					

Supplemental Information

Hillside School Modernization, Based on 2014 Dore & Whittier PreFeasibility Study Option A, Repair Hillside School for 430 Students Scheduled opening: July 2024 (FY25)

	45,0	005 SF Building	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	Cost/SF
	FY14	Project Cost (D&W)	225,000	8,835,814	1,649,200	1,032,000	412,300	12,154,314	\$270.07
	TO	TAL	225,000	8,835,814	1,649,200	1,032,000	412,300	12,154,314	\$270.07
			2%	73%	14%	8%	3%	100%	
6.00%		Cost Multiplier		9,365,963	1,748,152	1,093,920	437,038	12,645,073	\$280.97
6.00%		Cost Multiplier		9,927,921	1,853,041	1,159,555	463,260	13,403,777	\$297.83
5.00%		7 Cost Multiplier		10,424,317	1,945,693	1,217,533	486,423	14,073,966	\$312.72
5.00%	FY18	3 Cost Multiplier		10,945,532	2,042,978	1,278,410	510,744	14,777,664	\$328.36
10.00%		Oost Multiplier		12,040,086	2,247,276	1,406,251	561,819	16,255,431	\$361.19
10.00%		Cost Multiplier	100,000	13,244,094	2,472,003	1,546,876	618,001	17,980,974	\$399.53
8.00%	FY21	L Cost Multiplier	100,000	14,303,622	2,669,763	1,670,626	667,441	19,411,452	\$431.32
8.00%	FY22	2 Cost Multiplier	100,000	15,447,912	2,883,345	1,804,276	720,836	20,956,368	\$465.65
8.00%	FY23	3 Cost Multiplier	100,000	16,683,745	3,114,012	1,948,618	778,503	22,624,877	\$502.72
8.00%	FY24	1 Cost Multiplier	100,000	18,018,444	3,363,133	2,104,507	840,783	24,426,868	\$542.76
8.00%	FY25	Cost Multiplier	100,000	19,459,920	3,632,184	2,272,868	908,046	26,373,017	\$586.00
8.00%	FY26	Cost Multiplier	225,000	21,016,713	3,922,758	2,454,697	980,690	28,599,858	\$635.48
9 Y	ears/	TOTAL PROJECT COST	225,000	21,016,713	3,922,758	2,454,697	980,690	28,599,858	\$502.72
		TOTAL COST (ROUNDED)	225,000	21,016,700	3,922,800	2,454,700	980,700	28,599,900	\$635.48
	* Ex	cludes modular temporary cla	assrooms						
		Square Footage		45,005					
		Facibility	FY20 100,000	FY21	FY23	FY26	Total 225,000		
		Fesibility	100,000	2 022 000		125,000	,		
		Arch/Engineering		3,922,800	21 016 700		3,922,800		
		Construction Management			21,016,700 980,700		21,016,700		
		Construction Management	0		,	^	980,700		
		FF&E	<u>0</u>	· · · · · · · · · · · · · · · · · · ·	<u>2,454,700</u>	<u>0</u>			
		Total	100,000	3,922,800	24,452,100	125,000	28,599,900		

				Capital Proje	ect Request					
Project Title: R	enovate/Reco	nstruct Emery Grover	Building at High	land Avenue Lo	cation			Fiscal Year:		2021
Purpose: Co	onstruction	Cla	ssification: Bu	uilding		Status:	Amended Requ	est from the Prio	r CIP	
Department: N	eedham Public S	Schools				Supports:	Public Educatio	n		
Partners: Co	ommunity Prese	rvation Fund; PPBC				Useful Life:	More than twe	nty-five (25) years		
				<u>Parameters</u>						Response
 Are there any costs 	to bid, design,	construct, purchase, inst	all, implement, or	otherwise comple	te the project which	h are NOT inclu	ided is this request?		Yes	
2. Are there recomme	endations or cos	ts identified by other de	partments which a	re NOT factored in	nto the request?				No	
3. Does this project re	equire any perm	itting by any Town or Sta	ate agency?						Yes	
4. If this request is for	r Technology, ha	s the Department comm	nunicated with ITC,	and does ITC sup	port the request?				Yes	
5. If this request is for	r Building Impro	vements, has the Depart	ment communicat	ed with the Buildi	ng Maintenance (B	M) division, and	d does BM support t	he request?	Yes	
5. If funded, will addit	tional permanen	it staff be required?					Total New FTE's	s:	No	
7. If funded, will the o	perating budge	t need to be increased to	cover operating e	expenses?					Yes	
3. If funded, will this	project lower the	e requesting Departmen	t's operating costs	?					No	
9. If funded, will this p	project require c	ongoing assistance from	vendors at an addi	tional expense to	the Town which is	NOT already bu	dgeted?		No	
10. If the project is N (OT funded, will d	current Town revenue be	e reduced?						No	
11. Is specialized trair	ning or annual lic	censing required that the	e Town will need to	pay in order to u	se the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
13. Is this a request in response to a Court, Federal, or State order?								No		
14. Is this a request in response to a documented public health or safety condition?								No		
15. Is this a request to	o improve or ma	ke repairs to extend the	useful life of a bui	lding?					Yes	
16. Is this a request to	o purchase appa	ratus/equipment that is	intended to be per	rmanently installe	d at the location of	its use?			No	
17. Is this a request to	o repair or other	wise improve public pro	perty which is NO	r a building or infr	astructure?				No	
18. Will any other deր	partment be req	uired to provide assistar	nce in order to com	plete the project?	?				Yes	
19. If funded, will this	project increase	e the operating expense	for any other depart	artment?					Yes	
Project Cost: \$1	19,348,500	How was the Project C	ost Determined:		Hired Consultant					
Budget Impact: M	lay increase ann	ual operating expenses b	by more than \$100	,000						
Project Budget	t Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$1,967,300		\$1,967,300						
and/ROW Acquisitio	n	\$0								
Site Preparation		\$0								
Construction		\$14,690,000			\$14,690,000					
Construction Manage	ement	\$146,300		\$146,300						
Equipment		\$0								
Furniture, Fixtures, ar		\$805,600			\$805,600					
Technology Hardware	e/Software	\$0								
Other Expenses		\$1,739,300			\$1,739,300					
TOTAL		\$19,348,500	\$0	\$2,113,600	\$17,234,900		\$0	\$0	\$0	

Capital Project Request Project Title: Renovate/Reconstruct Emery Grover Building at Highland Avenue Location Fiscal Year: 2021

Project Description and Considerations

The 2005 Facilities Master Plan indicated that the Emery Grover School Administration Building is in need of additional office and storage space, as well as extensive repair and modernization. The needed scope of renovation includes reorganizing office and meeting spaces, making the building fully ADA accessible, removing remaining asbestos and lead paint, and replacing deteriorating systems, including: windows, HVAC, electrical and plumbing. These renovations would allow for a more efficient use of space, as well as full utilization of all four floors and full handicapped accessibility. Emery Grover is on the National Register of Historic Buildings.

This request is for the renovation of the existing Emery Grover building at its present location. Pending Special Town Meeting funding approval in October, 2018, a feasibility study will be conducted to evaluate the various alternatives for completing this project, including: 1) full renovation and addition; 2) complete demolition and new construction; 3) preservation of one or more facades with new construction behind and 4) the sale and relocation of School District administration to leased/purchased space. The study will determine the structure's suitability for school needs, will provide recommendations for programmatic or zoning needs, will address temporary relocation requirements and cost, and will identify how each alternative is categorized with regard to CPA funding and any required local, state and national approvals.

A preliminary budget and schedule for a renovation project is presented below, based on a pre-feasibility study performed in 2013 by DesignLAB Architects. The budget assumes that the building will be reconstructed at its current location and that Community Preservation Act funding would cover approximately 67% of construction and related soft costs. It also includes funds to temporarily re-locate staff to swing space during construction. The construction schedule would be delayed by approximately one year if full demolition of the existing structure were required.

Preliminary Project Schedule:

Pre-Feasibility Study: FY14

Feasibility Study: FY19 (Oct '18 STM) - Jan '19 - April '20

Design Funding: FY21 (May '20 ATM)

Design: Jun '20 - Dec '21

Construction Funding: FY22 (Oct '21 STM)

Bidding: Jan '22 - May '22

Emery Grover Occupies Swing Space: Aug '22 (Move-In) - June '24

Construction: Aug '22 - June '24 (24 Months)

New Building Opens: (FY25) July '24

Project Budget:

The above referenced project budget excludes \$30,000 approved at May 2013 Annual Town Meeting and \$130,000 to be requested at October 2018 Special Town Meeting for feasibility design. The "Other Expenses" category includes \$1,669,200 to occupy leased swing space for one year, while the building is being renovated, plus \$70,100 in legal expense. If, alternatively, the modernized Hillside School is used as swing space, the project budget could be reduced by the lease expense. (The project to modernize Hillside for use as swing space is presented separately.) All costs include escalation to the mid-point of construction, using 6%/year (FY14-FY16), 5.0%/year (FY17-18), 10.0%/year (FY19-20), and 8%/year thereafter.

This project is revised from the previous request to reflect an August '22 move in date to Hillside swing space, based upon the current Police/Fire use of the existing Hillside building, and to reflect a 10% cost escalator for FY19 and FY20 (due to construction labor market trends and tariffs) and 8% thereafter, based on advice from the PPBC. It is likely that the final design budget will need to include 2% construction management expense (compared to 1%), but that adjustment is not reflected above, in order to preserve the integrity of the source information.

Parameters Addressed:

Project Costs Not Included: See Project Budget narrative above.

Permitting: As required by Town Boards.

	Capital Project Request		
Project Title:	Renovate/Reconstruct Emery Grover Building at Highland Avenue Location	Fiscal Year:	2021

Supplemental Information

Building Improvements: The PPBC and Public Facilities Department support this request.

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised during design.

CPC: Funding application to be submitted. Extend Useful Life: See above narrative.

Other Departmental Assistance: PPBC Project Management

Operating Budget Increase: Improvements to HVAC, electical system may increase building maintenance expense by more than \$100,000/year. This placeholder estimate to be revised during design process.

Emery Grover Renovation Cost Estimated, Based on 2013 DesignLab Study

	21,235 SF Building	Feasibilty	Construction	A/E	Constr Mant	Temporary	FF&E	Other	Total	Cost/SF	Less CPA @ 67%	Net Cost
	21,233 SF Building	reasibility	Construction	A/L	Consti Mgnt	remporary	FFQL	Other	iotai	CUSI/ 3F	@ 07 -70	Net Cost
	FY13 Project Cost (DesignLab)		7,339,550	982,906	73,120	834,000	402,500	35,000	9,667,076		8,350,000	1,317,076
	TOTAL	-	7,339,550	982,906	73,120	834,000	402,500	35,000	9,667,076	\$455	8,350,000	1,317,076
		0%	76%	10%	1%	9%	4%	0%	100%)		
6.00%	FY14 Cost Multiplier @ 6%	_	7,779,923	1,041,880	77,507	884,040	426,650	37,100	10,247,101	\$483	8,350,000	1,897,101
6.00%	FY15 Cost Multiplier @ 6%	-	8,246,718	1,104,393	82,158	937,082	452,249	39,326	10,861,927	\$512	8,350,000	2,511,927
6.00%	FY16 Cost Multiplier @ 6%	-	8,741,521	1,170,657	87,087	993,307	479,384	41,686	11,513,642	\$542	8,350,000	3,163,642
5.00%	FY17 Cost Multiplier @ 5%	-	9,178,598	1,229,190	91,441	1,042,973	503,353	43,770	12,089,324	\$569	8,350,000	3,739,324
5.00%	FY18 Cost Multiplier @ 5%	-	9,637,527	1,290,649	96,014	1,095,121	528,521	45,958	12,693,791	\$598	8,350,000	4,343,791
10.00%	FY19 Cost Multiplier @ 10%	-	10,601,280	1,419,714	105,615	1,204,633	581,373	50,554	13,963,170	\$658	8,350,000	5,613,170
10.00%	FY20 Cost Multiplier @ 10%	-	11,661,408	1,561,685	116,176	1,325,097	639,510	55,610	15,359,487	\$723	8,350,000	7,009,487
8.00%	FY21 Cost Multiplier @ 8%	-	12,594,321	1,686,620	125,470	1,431,105	690,671	60,058	16,588,245	\$781	8,350,000	8,238,245
8.00%	FY22 Cost Multiplier @ 8%	-	13,601,867	1,821,550	135,508	1,545,593	745,925	64,863	17,915,305	\$844	8,350,000	9,565,305
8.00%	FY23 Cost Multiplier @ 8%	<u>=</u>	14,690,016	1,967,274	146,349	1,669,240	805,599	70,052	19,348,529	\$911	8,350,000	10,998,529
8	TOTAL PROJECT COST	-	14,690,016	1,967,274	146,349	1,669,240	805,599	70,052	19,348,529	\$911	8,350,000	10,998,529
	TOTAL COST (ROUNDED)) -	14,690,000	1,967,300	146,300	1,669,200	805,600	70,100	19,348,500	\$911	8,350,000	10,998,500

Square Footage 21,235

Note - costs escalated at rates shown abaove, to midpoint of construction (FY23). FY14 & FY19 are feasibility funding years.

					FY14-22
Project Funding Schedule	FY14	FY19	FY21	FY22	Total
Pre-Design	30,000	130,000			-
Engineering & Design			1,967,300		1,967,300
Construction	0	-		14,690,000	14,690,000
Construction Management			146,300		146,300
FF&E				805,600	805,600
<u>Other</u>	0_	<u>-</u>	<u>-</u>	1,739,300	1,739,300
Total	30,000	130,000	2,113,600	17,234,900	19,348,500

Plus Feasibility Design: 160,000

19,508,500

				Capital Proje	ect Request					
Project Title: Eli	iot School Tec	hnology Room Conve	rsion					Fiscal Year:		2021
Ourpose: Co	nstruction	Cla	ssification: Bu	ilding	!	Status:	New Request			
Department: Ne	edham Public S	chools	•			Supports:	Public Education			
Partners: Pu	blic Facilities					Useful Life:	More than twent	ty-five (25) years		
				<u>Parameters</u>			•		<u>F</u>	Response
Are there any costs	to bid, design,	construct, purchase, inst	all, implement, or o	otherwise comple	te the project which	n are NOT inclu	ided is this request?		No	
. Are there recomme	ndations or cos	ts identified by other de	partments which a	e NOT factored ir	nto the request?				No	
B. Does this project re	quire any perm	itting by any Town or Sta	ate agency?						Yes	
I. If this request is for	Technology, ha	s the Department comm	nunicated with ITC,	and does ITC supp	port the request?				Yes	
. If this request is for	Building Impro	vements, has the Depart	ment communicate	ed with the Buildir	ng Maintenance (BN	Λ) division, an	d does BM support th	e request?	Yes	
6. If funded, will addit	ional permanen	it staff be required?					Total New FTE's:	:	No	
. If funded, will the o	perating budge	t need to be increased to	cover operating e	xpenses?					No	
3. If funded, will this p	roject lower the	e requesting Departmen	t's operating costs?						No	
). If funded, will this p	roject require c	ongoing assistance from	vendors at an addit	ional expense to	the Town which is N	NOT already bu	dgeted?		No	
.0. If the project is NC	T funded, will o	current Town revenue be	e reduced?						No	
1. Is specialized train	ing or annual lic	censing required that the	e Town will need to	pay in order to us	se the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
13. Is this a request in response to a Court, Federal, or State order?								No		
14. Is this a request in response to a documented public health or safety condition?								No		
L5. Is this a request to	improve or ma	ke repairs to extend the	useful life of a buil	ding?					No	
16. Is this a request to	purchase appa	ratus/equipment that is	intended to be per	manently installed	d at the location of	its use?			No	
L7. Is this a request to	repair or other	wise improve public pro	perty which is NOT	a building or infra	astructure?				No	
18. Will any other dep	artment be req	uired to provide assistar	nce in order to com	plete the project?					Yes	
9. If funded, will this	project increase	e the operating expense		rtment?					No	
•	79,300	How was the Project C			Hired Consultant					
Budget Impact: Ne	gligible impact	on the annual operating	expenses less than	\$5,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$0								
Design/Engineering		\$28,500		\$28,500						
and/ROW Acquisition	า	\$0								
Site Preparation		\$0								
Construction		\$108,100		\$108,100						
Construction Manage	ment	\$7,100		\$7,100						
quipment		\$0								
urniture, Fixtures, an		\$35,600		\$35,600						
Technology Hardware	/Software	\$0								
Other Expenses		\$0								
TOTAL		\$179,300	\$0	\$179,300	\$0		\$0 \$	0	\$0	

Capital Project Request Project Title: Eliot School Technology Room Conversion Fiscal Year: 2021

Project Description and Considerations

The School Committee is planning for the implementation of Full-Day Kindergarten (FDK) in September, 2019. Based on a feasibility study conducted by Dore & Whittier Arhitects (February 2018), several modifications to Needham buildings are needed to accommodate the projected number of classrooms needed. These modifications include the conversion of a technology labat the Eliot School to a classroom. According to the analysis, the additional classroom will be needed in September, 2019, however, this request would complete that conversion in September, 2021. The same analysis also called for the construction of up to six modular classrooms at that school, which are presented in a separate capital request.

This project is to provide funding to convert the existing technology lab at Eliot Elementary School to a classroom to meet that need. Project costs are based on a preliminary project budget prepared February 2018 by Dore & Whittier, updated to reflect the following cost escalators: 10%/year (FY19-20), and 8%/year thereafter.

Preliminary Project Schedule:

Funding for Detailed Design & Construction: FY21 (Oct '20 STM)

Detailed Design & Bidding: Nov '20 - May '21

Construction: June '21 - Aug '21 New Classroom Opens: (FY22) - Sept '21

Parameters Addressed:

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated cost includes an FF&E budget for this project, including classroom technology.

Building Improvements: The Public Facilities Department supports this request.

Other Departmental Assistance: Public Facilities.

	Capital Project Request		
Project Title:	Eliot School Technology Room Conversion	Fiscal Year:	2021

Supplemental Information

900 sf	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	\$/ sf
FY18 Project Cost (D&W)		91,000	24,000	30,000	6,000	151,000	167.78
TOTAL	- 0%	91,000 60%	24,000 16%	30,000 20%	6,000 4%	151,000 100%	
0.00% FY19 Cost Multiplier @ 5%	-	91,000	24,000	30,000	6,000	151,000	167.78
0.00% FY20 Cost Multiplier @ 5% 8.00% FY21 Cost Multiplier @ 5%	-	100,100 108,108	26,400 28,512	33,000 35,640	6,600 7,128	166,100 179,388	184.56 199.32
3 Years TOTAL PROJECT COST		108,108	28,512	35,640	7,128	179,388	199.32
TOTAL COST (ROUNDED)	-	108,100	28,500	35,600	7,100	179,400	199.3
* Excludes modular temporary cl	assrooms						
	FY20	FY21	Total				
Fesibility	-	-	-				
Arch/Engineering		28,500	28,500				
Construction Construction Management		108,100 7,100	108,100 7,100				
FF&E	0	35.600	35,600				
Total	-	179,300	179,300				
Total		1,3,500	173/300				
D&W Estimated Cost (includ	ling escalation)	164,500					
Less Escalation		(13,500)					
Subtotal		151,000					

				Capital Proje	ect Request					
Project Title: El	iot Modular C	lassrooms						Fiscal Year:		2021
urpose: Co	nstruction	Cla	ssification: Bui	lding	S	tatus:	New Request			
Department: Ne	edham Public S	Schools			S	upports:	Public Education	1		
artners: PP	BC				U	seful Life:	Between eighte	en (18) and twent	y-five (25)	years
				<u>Parameters</u>						Response
Are there any costs	to bid, design,	construct, purchase, inst	call, implement, or o	therwise comple	te the project which	are NOT include	ed is this request?		No	
. Are there recomme	endations or cos	ts identified by other de	partments which are	e NOT factored i	nto the request?				No	
. Does this project re	quire any perm	itting by any Town or St	ate agency?						Yes	
l. If this request is for	Technology, ha	is the Department comn	nunicated with ITC, a	and does ITC sup	port the request?				Yes	
. If this request is for	Building Impro	vements, has the Depart	tment communicate	d with the Buildi	ng Maintenance (BM) division, and	does BM support tl	ne request?	Yes	
. If funded, will addit	ional permanen	nt staff be required?					Total New FTE's	:	No	
. If funded, will the o	perating budge	t need to be increased to	o cover operating ex	penses?					Yes	
B. If funded, will this p	project lower the	e requesting Departmen	t's operating costs?						No	
. If funded, will this p	roject require c	ongoing assistance from	vendors at an additi	onal expense to	the Town which is N	OT already budg	geted?		No	
0. If the project is NC	OT funded, will d	current Town revenue be	e reduced?						No	
1. Is specialized train	ing or annual lic	censing required that the	e Town will need to	pay in order to u	se the asset?				No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
3. Is this a request in	response to a (Court, Federal, or State o	order?						No	
4. Is this a request in	response to a o	documented public healt	th or safety condition	n?					No	
.5. Is this a request to	improve or ma	ke repairs to extend the	useful life of a build	ling?					No	
.6. Is this a request to	purchase appa	ratus/equipment that is	intended to be pern	nanently installe	d at the location of it	s use?			No	
.7. Is this a request to	repair or other	wise improve public pro	perty which is NOT	a building or infr	astructure?				No	
.8. Will any other dep	artment be req	uired to provide assistar	nce in order to comp	lete the project?	?				Yes	
9. If funded, will this	project increase	e the operating expense	for any other depar	tment?					Yes	
	,037,900	How was the Project C			Hired Consultant					
,	•	ual operating expenses I	between \$25,001 an	d \$50,000						
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$0								
esign/Engineering		\$556,700		\$556,700						
and/ROW Acquisition	n	\$0								
ite Preparation		\$0								
Construction		\$3,266,300			\$3,266,300					
onstruction Manage	ment	\$12,800			\$12,800					
quipment		\$0								
urniture, Fixtures, an		\$202,100			\$202,100					
echnology Hardware	/Software	\$0								
Other Expenses		\$0								
ΓΟΤΑL		\$4,037,900	\$0	\$556,700	\$3,481,200	¢	0 9	\$0	\$0	

		Capital Project Request		
Project Title:	Eliot Modular Classrooms		Fiscal Year:	2021

Project Description and Considerations

The School Committee is planning for the implementation of Full-Day Kindergarten (FDK) in September, 2019, as well as the potential for significant enrollment growth in the Eliot neighborhood resulting from new development. Based on a feasibility study conducted by Dore & Whittier Arhitects (February 2018), several modifications would be needed to accommodate the projected number of classrooms needed under those assumptions. These modifications include the conversion of a technology lab to a classroom and the installation of six modular classrooms at the Eliot School.

This request would install six modular classrooms at the school. (The lab conversion project is presented as a separate capital request.) The modular classrooms (in combination with the lab conversion) would allow the school to meet the following projected need for classrooms: one additional classroom by 2020/21; two classrooms by FY2023/24; four classrooms by 2025/26; five classrooms by 2026/27, and a total of seven classrooms by 2029/30.

Project costs are based on a preliminary project budget prepared February 2018 by Dore & Whittier, updated to reflect the following cost escalators: 10%/year (FY19-20), and 8%/year thereafter.

Preliminary Project Schedule:

Funding for Detailed Design: FY21 (May '20 ATM) Detailed Design & Bidding: June '20 - Apr '21 Funding for Construction: FY22 (May '21 ATM)

Site Work/ Construction: June '21 - Aug '23 (24 Months, Due to Tight Site)

New Classrooms Open: (FY24) - Sept '23

Parameters Addressed:

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated project cost includes an FF&E budget for this new facility, including classroom

technology.

Operating Budget Increase: Utilities. This placeholder estimate to be revised during design.

Other Departmental Assistance: PPBC Project Management

Operating Budget Increase: Utilities. This placeholder estimate to be revised during design process.

	Capital Project R	equest	
Project Title:	Eliot Modular Classrooms	Fiscal Year:	2021

Supplemental Information

Eliot School Modular Classrooms (6 @ 1,200 sf/each) & Renovation of Existing Technology Lab

	10,000 sf	Construction (1)	A/E (2)	FF&E	Constr Mgnt (3)	Total	Cost/SF
	FY18 Project Cost (D&W) - Combined Less Tech Room Conversion - Separate	2,515,500 91,000	437,250 24,000	180,000 30,000	15,500 <u>6,000</u>	3,148,250 151,000	314.83
	TOTAL	2,424,500	413,250	150,000	9,500	2,997,250	147.05
10.00%	FY19 Cost Multiplier @ 5%	2,545,725	433,913	157,500	9,975	3,147,113	314.71
10.00%	FY20 Cost Multiplier @ 5%	2,800,298	477,304	173,250	10,973	3,461,824	346.18
8.00%	FY21 Cost Multiplier @ 5%	3,024,321	515,488	187,110	11,850	3,738,770	373.88
8.00%	FY22 Cost Multiplier @ 5%	<u>3,266,267</u>	556,727	202,079	12,798	<u>4,037,871</u>	403.79
4 Y	'ears TOTAL PROJECT COST	3,266,267	556,727	202,079	12,798	4,037,871	403.79
	TOTAL COST (ROUNDED)	3,266,300	556,700	202,100	12,800	4,037,900	403.79

- (1) Construction includes site, modulars, renovation construction cost and contingencies
- (2) A/E includes soft costs and 80% of owners' direct costs (less FF&E.)
- (3) Construction management includes 20% of owners' direct costs (less FF&E.)

Casibility.	FY21	FY22	Total
Fesibility Arch/Engineering Construction Construction Management FF&E	556,700 	3,266,300 12,800 202,100 3,481,200	556,700 3,266,300 12,800 202,100 4,037,900
D&W Estimated Cost (including escalati Less Escalation Subtotal	Modulars 3,728,750 (580,500) 3,148,250	Tech Room 164,500 (13,500) 151,000	

				Capital Pro	oject Request					
Project Title:	Broadmeadow	School Technology Ro	om Conversion					Fiscal Year:		2022
Purpose:	Construction	Cla	ssification: Te	echnology		Status:	New Request			
Department:	Needham Public S	Schools				Supports:	Public Education			
Partners:	Public Facilities					Useful Life:	More than twent	ty-five (25) years		
				<u>Parameters</u>						Response
1. Are there any cos	sts to bid, design,	construct, purchase, inst	all, implement, or	otherwise comp	olete the project which	h are NOT inclu	ided is this request?		No	
2. Are there recom	mendations or cos	ts identified by other de	partments which a	re NOT factored	d into the request?				No	
3. Does this project	require any perm	itting by any Town or Sta	ate agency?						Yes	
4. If this request is f	for Technology, ha	as the Department comm	nunicated with ITC,	and does ITC si	upport the request?				Yes	
5. If this request is f	for Building Impro	vements, has the Depart	ment communicat	ed with the Bui	lding Maintenance (B	M) division, and	d does BM support th	e request?	Yes	
		nt staff be required?					Total New FTE's:		No	
7. If funded, will the	e operating budge	t need to be increased to	cover operating e	expenses?			•	•	No	
		e requesting Departmen							No	
•	• •	ongoing assistance from			to the Town which is	NOT already bu	dgeted?		No	
		current Town revenue be		•		•	-		No	
11. Is specialized tra	aining or annual li	censing required that the	e Town will need to	pay in order to	use the asset?				No	
•		al Eligibility Project Appli				mmittee (CPC)	?		No	
		Court, Federal, or State o			•				No	
14. Is this a request	in response to a	documented public healt	h or safety conditi	on?					No	
15. Is this a request	to improve or ma	ke repairs to extend the	useful life of a bui	lding?					No	
16. Is this a request	to purchase appa	ratus/equipment that is	intended to be per	rmanently insta	lled at the location of	its use?			No	
17. Is this a request	to repair or other	rwise improve public pro	perty which is NO	r a building or in	nfrastructure?				No	
18. Will any other d	lepartment be req	uired to provide assistar	nce in order to com	plete the proje	ct?				Yes	
19. If funded, will th	nis project increas	e the operating expense	for any other depa	rtment?					No	
Project Cost:	\$213,100	How was the Project C	Cost Determined:		Hired Consultant				•	
Budget Impact:	Negligible impact	on the annual operating	expenses less that	n \$5,000						
Project Budg	*	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility	1	\$0								
Design/Engineering	5	\$33,900			\$33,900					
Land/ROW Acquisit	tion	\$0								
Site Preparation		\$0								
Construction		\$128,400			\$128,400					
Construction Mana	gement	\$8,500			\$8,500					
quipment		\$0								
urniture, Fixtures,	and Equipment	\$42,300			\$42,300					
Technology Hardwa	are/Software	\$0								
Other Expenses		\$0								
		\$213,100	\$0	\$(9213,100		\$0 \$	0	\$0	

Capital Project Request Project Title: Broadmeadow School Technology Room Conversion Fiscal Year: 2022

Project Description and Considerations

The School Committee is planning for the implementation of Full-Day Kindergarten (FDK) in September, 2019. Based on a feasibility study conducted by Dore & Whittier Arhitects (February 2018), several modifications to Needham buildings are needed to accommodate the projected number of classrooms needed. These modifications include the conversion of a technology lab at the Broadmeadow School to a classroom, effective for the 2022/23 School Year.

This project is to provide funding to convert the existing technology lab at Broadmeadow Elementary School to a classroom to meet that need. Project costs are based on a preliminary project budget prepared February 2018 by Dore & Whittier, updated to reflect the following cost escalators: 10%/year (FY19-20), and 8%/year thereafter.

Preliminary Project Schedule:

Funding for Detailed Design & Construction: FY22 (Oct '21 STM)

Detailed Design & Bidding: Nov '21 - May '22

Construction: June '22 - Aug '22 New Classroom Opens: (FY23) - Sept '22

Parameters Addressed:

Permitting: As required by Town Boards.

Technology: The School Instructional Technology Department is in support of this request. The estimated cost includes an FF&E budget for this project, including classroom technology.

Building Improvements: The Public Facilities Department supports this request.

Other Departmental Assistance: Public Facilities.

	Capi	roject Request	
Project Title:	Broadmeadow School Technology Room Conversion	Fiscal Year:	2022

Supplemental Information

	900 sf	Feasibilty	Construction*	A/E	FF&E	Constr Mgnt	Total	Cost/SF
	FY18 Project Cost (D&W)		91,000	24,000	30,000	6,000	151,000	167.78
	TOTAL	- 0%	91,000 60%	24,000 16%	30,000 20%	6,000 4%	151,000 100%	167.78
0.00%	FY19 Cost Multiplier	-	100,100	26,400	33,000	6,600	166,100	184.56
0.00%	FY20 Cost Multiplier	-	110,110	29,040	36,300	7,260	182,710	203.01
3.00% 3.00%	FY21 Cost Multiplier	-	118,919	31,363	39,204	7,841	197,327	219.25
	FY22 Cost Multiplier	-	128,432	33,872	42,340	8,468	213,113	236.79
4 Y	rears TOTAL PROJECT COST TOTAL COST (ROUNDED)	-	128,432 128,400	33,872 33,900	42,340 42,300	8,468 8,500	213,113 213,100	236.79 236.78
		FY20	FY21	FY22	Total			
	Fesibility	-			-			
	Arch/Engineering			33,900	33,900			
	Construction			128,400	128,400			
	Construction Management FF&E	0	_	8,500 42,300	8,500 42.300			
	<u> </u>	<u> </u>		213,100	213,100			

				Capital Project	Request					
Project Title: Sch	ool Master Plan Suppler	nent						Fiscal Year:		2020
urpose: Des	ign/Engineering	Classificat	ion: Bui	lding		Status:	New Request			
Department: Nee	dham Public Schools	•	•		Ş	Supports:	Public Education			
Partners: PPB	С				ı	Jseful Life:	More than five (5	5) years but less th	han eight (8) years
				<u>Parameters</u>	•		•		R	esponse
. Are there any costs t	o bid, design, construct, pui	rchase, install, imp	lement, or ot	therwise complete	the project which	are NOT inclu	ided is this request?		No	
. Are there recommen	dations or costs identified b	y other departme	nts which are	e NOT factored into	the request?				No	
. Does this project req	uire any permitting by any ⁻	Town or State age	ncy?						No	
. If this request is for T	echnology, has the Departr	ment communicate	ed with ITC, a	and does ITC suppor	rt the request?				No	
. If this request is for E	Building Improvements, has	the Department c	ommunicated	d with the Building	Maintenance (BN	1) division, and	d does BM support th	e request?	No	
. If funded, will addition	nal permanent staff be req	uired?					Total New FTE's:	:	No	
. If funded, will the op	erating budget need to be i	ncreased to cover	operating exp	penses?					No	
. If funded, will this pr	oject lower the requesting [Department's oper	ating costs?						No	
. If funded, will this pr	oject require ongoing assist	ance from vendor	s at an additio	onal expense to the	Town which is N	OT already bu	dgeted?		No	
0. If the project is NOT	funded, will current Town	revenue be reduc	ed?						No	
1. Is specialized trainir	ng or annual licensing requi	red that the Town	will need to p	pay in order to use	the asset?				No	
2. Is this a project for	which an Initial Eligibility Pr	oject Application o	an be filed w	ith the Community	Preservation Cor	nmittee (CPC)	?		No	
3. Is this a request in r	esponse to a Court, Federa	l, or State order?							No	
	esponse to a documented p								No	
	mprove or make repairs to								No	
.6. Is this a request to բ	ourchase apparatus/equipm	nent that is intende	ed to be perm	nanently installed a	t the location of i	ts use?			No	
7. Is this a request to r	epair or otherwise improve	public property w	hich is NOT a	a building or infrast	ructure?				No	
8. Will any other depa	rtment be required to provi	ide assistance in o	rder to comp	lete the project?					Yes	
9. If funded, will this p	roject increase the operatir	•		tment?					No	
,		e Project Cost Det								
udget Impact: Neg	ligible impact on the annua	l operating expens	ses less than s	\$5,000						
Project Budget E		· ·	-	2021	2022	2023	2024	2025		2026
lanning/Feasibility	\$1	.25,000 \$	125,000							
esign/Engineering		\$0								
and/ROW Acquisition		\$0								
ite Preparation		\$0								
Construction		\$0								
onstruction Managem	ent	\$0								
quipment		\$0								
urniture, Fixtures, and		\$0								
echnology Hardware/	Software	\$0								
Other Expenses		\$0								
ΓΟΤΑL	¢12	5,000 \$1	25,000	\$0	\$0		\$0 \$	0	\$0	

		Capital Project Request	
Project Title:	School Master Plan Supplement	Fiscal Year:	2020

Project Description and Considerations

Capital planning for the School Department has grown increasingly complex, given the pressing needs of accommodating Full-Day Kindergarten, providing capacity for a growing enrollment and repairing and renovating aging facilities. These needs have made it extremely difficult to prioritize from among the capital needs on the planning horizon: including a Mitchell Elementary School renovation to address building age/deficiencies; a recommended project to install up to six modular classrooms at the Eliot Elementary School to accommodate projected enrollment growth in that District; a small-scale retrofit to the Broadmeadow and Eliot Elementary Schools to provide needed capacity for Full Day Kindergarten, and a Pollard Renovation project to replace the modular classrooms (now at the end of their useful life), modernize spaces and provide enrollment capacity. In addition, the need to provide swing space for these projects and the potential use of the existing Hillside Elementary School on Glen Gary Road to meet this need, present intermediate scheduling and planning challenges. (These challenges are made more acute by the need to schedule around the planned use of this space as temporary headquarters for police/fire during renovation of their facility, and the fact that different retrofits will likely be needed to accommodate each use.) Meeting these various needs within available resources and reasonable timeframes will require the School Department to carefully consider all of the possibilities and options for prioritizing and scheduling building projects going forward.

This request is for a master planning study of school facilities in FY20. The proposed study would develop recommendations for long-range school capital plans under different enrollment scenarios/ trajectories and the practical considerations of aging buildings. Potential recommendations could involve other buildings and/or non-building solutions like redistricting.

The proposed study would complement the Needham 2025 effort, for which funding will requested at the October 2018 Special Town Meeting, and would provide an informational resource for the next Town-wide Master Planning Cycle. The purpose of the Needham 2025 study is to gain a better understanding of the impact of commercial and residential growth on the Town's infrastructure, including but not limited to: traffic, transportation, water, sewer, drains, roads and bridges, and school facilities, and to identify options for managing that impact. The Needham 2025 study, which is expected to be completed in FY19, will provide a general framework for more detailed master planning activities to be conducted in each area, which this study would be an example of. The in-depth analysis of school facility needs that could be provided for in this study also would be a valuable information resource for future Town-wide master planning efforts.

Finally, the proposed study could complement, or even incorporate, the objectives of the Pollard Phased Improvements Feasibility Study, for which \$65,000 in funding was obtained in FY19. The purpose of that study, which has not yet been undertaken, was to determine whether or not it would be possible to phase the Pollard renovation project over multiple years with the goal of accelerating completion of the project and reducing the overall project cost. A particular emphasis was the Pollard modular classrooms, which are nearing the end of their useful life, but which are needed to meet the current program of studies for the projected enrollment. The study also was to look at the cost benefit of completing the science classrooms first to create swing space when the modular classrooms are demolished, examine strategies to maximize potential MSBA reimbursement for this project and, finally, estimate future need, based on long-term enrollment trends. In addition, some ongoing maintenance repair work may have reduced the scope of the overall project, such as the relocation of the administrative offices at Pollard, renovations to bathrooms and auditorium seating improvements.

<u>Parameters Addressed:</u>

Other Departmental Assistance: PPBC Project Management

				Capital Pro	oject Request					
Project Title:	Harris Ave Park	ing Lot						Fiscal Year:	202	23
Purpose:	Design/Engineer	ing	Classification:	Infrastructure		Status:	Informational Only	Details Incomp	lete	
Department:	Public Works - Bu	ilding Maintenance	•			Supports:	Transportation Net	work		
Partners:	School Departme	nt				Useful Life:	More than twelve (12) years		
				<u>Parameters</u>		•			Respo	onse
Are there any c	osts to bid, design,	construct, purchase, i	nstall, implement, o	r otherwise comp	lete the project wh	nich are NOT inclu	ded is this request?		No	
. Are there recor	nmendations or co	sts identified by other	departments which	are NOT factored	l into the request?		·		No	
. Does this proje	ct require any perm	nitting by any Town or	State agency?						Yes	
. If this request i	s for Technology, h	as the Department cor	nmunicated with IT	C, and does ITC su	ipport the request?)			No	
. If this request in	s for Building Impro	vements, has the Dep	artment communica	ated with the Buil	ding Maintenance	(BM) division, and	does BM support the r	equest?	Yes	
. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
. If funded, will t	he operating budge	t need to be increased	d to cover operating	expenses?					No	
. If funded, will t	his project lower th	e requesting Departm	ent's operating cost	s?					No	
. If funded, will t	his project require	ongoing assistance fro	m vendors at an add	ditional expense t	o the Town which i	s NOT already but	lgeted?		No	
0. If the project i	s NOT funded, will	current Town revenue	e be reduced?						No	
1. Is specialized	training or annual li	censing required that	the Town will need	to pay in order to	use the asset?				No	
2. Is this a projed	ct for which an Initi	al Eligibility Project Ap	plication can be file	d with the Comm	unity Preservation (Committee (CPC)?			No	
3. Is this a reque	st in response to a	Court, Federal, or Stat	e order?						No	
4. Is this a reque	st in response to a	documented public he	alth or safety condi	tion?					No	
5. Is this a reque	st to improve or ma	ake repairs to extend t	the useful life of a bu	uilding?					No	
6. Is this a reque	st to purchase appa	aratus/equipment that	is intended to be p	ermanently instal	led at the location	of its use?			Yes	
7. Is this a reque	st to repair or othe	rwise improve public p	property which is NC)T a building or in	frastructure?				No	
8. Will any other	department be red	quired to provide assis	tance in order to co	mplete the projec	t?				Yes	
9. If funded, will	this project increas	e the operating expen	se for any other dep	partment?					No	
Project Cost:	\$525,000	How was the Project	ct Cost Determined:		In-House Estimat	te				
Budget Impact:	Negligible impact	on the annual operat	ing expenses less th	an \$5,000						
Project Bu	dget Elements	Project Budget	2020	2021	2022	2023	2024	2025	202	26
lanning/Feasibili	ty	\$0								
Design/Engineerir	ng	\$25,000				\$25,	000			
and/ROW Acquis	sition	\$0								
ite Preparation		\$0								
onstruction		\$500,000					\$500,000			
onstruction Man	nagement	\$0								
quipment		\$0								
urniture, Fixture	s, and Equipment	\$0								
echnology Hardv	ware/Software	\$0								
		ćo								
Other Expenses		\$0								

		Capital Project Request	
Project Title:	Harris Ave Parking Lot	Fiscal Year:	2023

Project Description and Considerations

Project Summary

- The Pollard Middle School parking lot, located on Harris Avenue, is currently made up of two areas. The large, main parking lot is to the left and the area to the right is a temporary, paved bike parking lot that was converted to a temporary paved parking lot. It was not constructed with the intention of supporting automotive vehicles. Both parking lots suffer from structural deficiencies and lack of drainage. Additionally, there is need for more staff and visitor parking as a result of increased student population, as well as increased educational requirements. Currently, visitors park in the bus loop after hours or along the road.
- The first phase of this project is to design parking lot upgrades with the intention of capturing additional space where possible and repairing structural deficiencies to make the parking lot more sustainable. Construction is the second phase. This project will include the addition of drainage structures in compliance with the Town's National Pollution Discharge Elimination System (NPDES) permit.

Clarification of Questions

- 3. This request may be subject to Planning Review, Conservation Commission, Street Opening Permits, and Building Permits.
- 5. This is a Building Maintenance request.
- 16. The parking lot will be permanently installed.
- 18. This request will require support form Highway and the School Department.

				Capital Projec	t Request					
Project Title:	Public Works Inf	rastructure Program	1				ı	Fiscal Year:		2020
Purpose:	Construction	CI	assification: In	frastructure	Si	tatus:	Amended Request f	rom the Prior	CIP	
Department:	Public Works - Hig	hway .	•		S	upports:	Transportation Netv	vork		
Partners:					U	seful Life:	Between twelve (12) and eighteen	(18) years	5
				<u>Parameters</u>	•				<u> </u>	Response
1. Are there any co	sts to bid, design, c	onstruct, purchase, ins	tall, implement, or o	otherwise complete	the project which a	are NOT included is	s this request?		No	
2. Are there recom	mendations or cost	ts identified by other de	epartments which a	re NOT factored int	o the request?				No	
Does this project	require any permi	tting by any Town or St	ate agency?						Yes	
4. If this request is	for Technology, ha	s the Department comr	nunicated with ITC,	and does ITC suppo	ort the request?				No	
5. If this request is	for Building Improv	ements, has the Depar	tment communicate	ed with the Building	g Maintenance (BM)	division, and doe	s BM support the re	quest?	No	
5. If funded, will ad	ditional permanen	t staff be required?				•	Total New FTE's:)	No	
7. If funded, will th	e operating budget	need to be increased t	o cover operating e	xpenses?					No	
	' '	requesting Departmer							No	
9. If funded, will th	is project require o	ngoing assistance from	vendors at an addit	tional expense to th	e Town which is NC	T already budgete	d?		No	
10. If the project is	NOT funded, will c	urrent Town revenue b	e reduced?						No	
11. Is specialized tr	aining or annual lic	ensing required that th	e Town will need to	pay in order to use	the asset?				No	
2. Is this a project	for which an Initia	Eligibility Project Appl	ication can be filed	with the Communit	y Preservation Com	mittee (CPC)?			No	
L3. Is this a request	t in response to a C	ourt, Federal, or State	order?						No	
14. Is this a request	t in response to a d	ocumented public heal	th or safety condition	on?					Yes	
15. Is this a request	t to improve or mal	ke repairs to extend the	e useful life of a buil	ding?					No	
16. Is this a request	t to purchase appar	ratus/equipment that is	intended to be per	manently installed	at the location of its	s use?			No	
17. Is this a request	t to repair or other	wise improve public pro	pperty which is NOT	a building or infras	tructure?				No	
		uired to provide assista							No	
19. If funded, will t	his project increase	the operating expense	for any other depa	rtment?					Yes	
,	\$13,492,050	How was the Project			n-House Estimate					
Budget Impact:	Negligible impact	on the annual operating	g expenses less thar	n \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility	/	\$0								
Design/Engineering	S	\$802,500	\$100,000	\$83,000	\$150,000	\$269,500	\$200,000			
Land/ROW Acquisit	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	gement	\$12,689,550	\$2,069,550	\$2,332,000	\$2,128,000	\$3,255,000	\$2,905,000			
quipment		\$0								
Furniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$13,492,050	\$2,169,550	\$2,415,000	\$2,278,000	\$3,524,500	\$3,105,000		\$0	Ş

		Capital Project Request	
Project Title:	Public Works Infrastructure Program	Fiscal Year:	2020

Project Description and Considerations

The Public Works Infrastructure Program allows the Department of Public Works to make improvements and repairs to Town infrastructure, including but not limited to roads, bridges, sidewalks, intersections, drains, brooks, and culverts. This program consists of multiple categories, each with their own subprojects.

Project Summaries

Street Resurfacing

- The Town has 279 lane miles of accepted road that require maintenance. The average lifecycle of a road is 15 to 20 years. Specialized surface treatments can be applied within this period of time to sustain or extend the lifecycle of the roadway based on usage. The Town targets 17 lane miles of road per year in order to resurface roads before they reach the end of their lifecycle. These roads are prioritized based on a pavement condition index (PCI). The Town targets roads with a PCI of under 70 for resurfacing and specialized treatment, under 60 for repair and renovation.
- The primary strategy of this program is asphalt paving and incidental work. Incidental work may include asphalt berm curb, new grass shoulders, corner reconstruction including handicapped ramps, minor drainage improvements, street sign replacement, traffic markings, and signs. Installing a monolithic asphalt berm curb and/or granite curbing better defines the edge of the road, improves drainage, and protects the shoulder from erosion. The cost per lane mile for resurfacing in FY19 is \$84,500 or more per lane mile. A basic asphalt overlay at 1.5 inches with asphalt berm curb and casting adjustments is \$65,000 per lane mile. The cost of micro surfacing treatments and rubber chip seal surfacing treatments are approximately \$5 per square yard.

Roadway Reconstruction

- The Town has 279 lane miles of accepted road that require maintenance. Road resurfacing may be the appropriate treatment to extend the useful life of a road, but conditions may require that a total reconstruction of the road is necessary to address structural issues within the road including drainage, grade, and subsurface material construction. This differs from the road rehabilitation program, as it requires more complete design and construction. Rehabilitation is similar to a house renovation whereas reconstruction is similar to a knock-down and rebuild. Roads do not just consist of the top layer of asphalt; they are complete systems that have their own foundation.
- The Town evaluates the sight distance, drainage, handicap ramps, sidewalks, subsurface utilities, public utility poles, and overhead utilities. The physical condition of the road to be evaluated for improvement includes shape, foundation, and traffic volume. The roads being addressed are deficient in one or more of the areas listed. This relates to the nature of how the Town has evolved historically, with roads being constructed as opposed to being designed. This is a multi-year process which requires surveying, designing, utility evaluation, and construction.

	Capital Project Request		
Project Title:	Public Works Infrastructure Program	Fiscal Year:	2020
			·

Supplemental Information

Marked Tree

- The road condition is very poor due to age and utility work. The electric and gas work has been completed in recent years. The Town is finishing up a capital improvement project in this roadway for the water system. This road has asphalt curbing that is past is useful life and falling apart. The private properties that are connected to the road have some topographical challenges where there is a pitch to the driveways that is not ideal. There are sight distance concerns due to the curvature of the road. The road is only 20 feet wide and is used as a cut-through road.
- The work will widen the road, improve sidewalk width, install granite curbing, and make grading adjustments to lower road height for better access to private properties and provide better drainage. Reconstruction work will follow complete streets principals.

Sidewalk Program

- This program requires funding for the Town to address the failing network of sidewalks throughout the community. There are over 130 miles of accepted sidewalks in Needham. Over half of the Town's sidewalks do not comply with current standards and require significant improvements including the installation of handicapped ramps. Sidewalk improvements must comply with Federal and State laws and construction standards.
- The Town conducted a study to create a sidewalk condition index. The conclusions of that study identified 80 miles of sidewalk in a condition that would warrant reconstruction. The cost for sidewalk rehabilitation and reconstruction can vary significantly. Current estimates have identified over \$20,000,000 in backlogged sidewalks in need of repair. FY19 contract pricing to reconstruct one mile of asphalt sidewalk with incidental costs is estimated to be \$232,320 per mile (\$44.00/lf). Contract pricing to install a mile of granite curb with minor drainage improvements and incidental costs is estimated to be \$274,560 per mile (\$52.00/lf). These costs do not include engineering, design, tree removal and replacement, major drainage improvements, or major public or private property adjustments.

Intersection Improvements

• Traffic signals, intersections, and signage require upgrades and reevaluation as infrastructure ages, technology improves, and methods of transportation change. The Engineering Division reviews intersections based on requests identified need from the Highway Division, and traffic patterns and infrastructure changes that put pressure on various intersections throughout Town.

Highland Avenue at West Street

- At this intersection there is aging traffic control infrastructure, with reliability issues. Traffic control signals have been damaged by several car accidents. The traffic controls signals only have one timer, which allows for only one traffic pattern regardless of the time of day. This does not allow for the efficient flow of traffic for the intersection. This area is also less aesthetically pleasing.
- This work will include installing a new traffic signal system with modern technology that will better control the flow of traffic through the intersection, reducing back-ups of traffic. It will also follow the same aesthetic design principals as the downtown improvements. This intersection redesign will comply with complete streets principals.

		Capital Project Request	
Project Title:	Public Works Infrastructure Program	Fiscal Year	: 2020

Central Avenue at Great Plain Avenue

- There have been struggles with bringing appropriate traffic flow through the intersection since it was constructed in the 1990s due to property size limitations. There is a historic property on one corner that limits the design. The existing intersection design does not provide the ideal traffic patterns for multiple modes of transportation.
- This project will include geometric improvements and replacement/improvement of the traffic signal system. Installing a new traffic signal system that will include modern technology will better control the flow of traffic through the intersection, reducing back-ups of traffic. The layout of the intersection will be improved to increase traffic flow. This intersection redesign will comply with complete streets principals.

Bridge Repairs

• Surrounded on three sides by the Charles River, the Town jointly maintains a number of bridges with neighboring communities. The Massachusetts Bridge Inspection Program has identified a number of bridges that have some level of deficiency and has recommended repairs.

Newell's Bridge

- Massachusetts Department of Transportation (MassDOT) issued a report on Newell's Bridge on Central Avenue to Dover, which indicated that the bridge is deficient and in need of repair. The Town will work with Dover to determine how to address these deficiencies. This bridge is on the MassDOT's Accelerated Bridge Program which is a state funding source for bridge repairs. Prior to receiving funding it is possible that the bridge's capacity may be down-graded at the next bridge inspection.
- If the bridge is downgraded, the Town will need to perform an evaluation of the bridge with its own engineering consultant. This is a stone arch bridge that is structurally supported by the contact of the stones that support the bridge. The evaluation of the bridge will include installing monitoring devices on the bridge to determine if the support structure is moving and by how much. If there is no capacity change of the bridge, then this funding will be redirected to street resurfacing.

Storm Drain Capacity Improvements

• The March 2002 Stormwater Master Plan identified a number of areas throughout Needham where improvements are required to resolve existing problems with flooding and illicit discharge. Locations for improvements have been prioritized within the plan. Since the issuance of the 2002 Stormwater Master Plan, numerous multi-unit developments have been built or planned in the Town. These developments include new roads with drainage structures and roof or sump connections that are then connected to existing Town systems. These new connections have increased the load on the Town's drainage system and caused flooding in some areas.

Ardmore Road and Hunnewell Street or Other Prioritized Projects

• Replace existing 12" drain pipe with a larger drain pipe to improve capacity for stormwater.

Concord Street and Burnside Road or Other Prioritized Projects

• Construct a new drain that will be connected to the recently extended Greendale Avenue drain project to provide capacity for stormwater.

Capital Project Request

Project Title: Public Works Infrastructure Program Fiscal Year: 2020

Storm Drain System Repairs

• This program provides funding to repair failing storm drainage infrastructure within Town easements that have been discovered through investigation work. These projects will include the replacement of existing culverts that have deteriorated over time and are restricting flow. This work will eliminate flooding and capacity issues in the immediate vicinity. This project will provide funding for the Drains Division to address small projects related to the Labor Day 2013 storm drainage remediation.

470 South Street

- The existing concrete pipe is plugged with roots.
- Remove and replace with plastic pipe that is more resistant to root intrusion.

Brooks and Culverts

• There are aging draining infrastructures that require repair including poorly draining brooks, streams, waterways, and culverts throughout the Town that have been severely damaged by heavy rains/storms in the past. Flooding in March 2010 caused the failure of retaining walls, resulting in extensive erosion and silt deposits in brooks and streams. The silt has provided a medium for vegetation and affected the flow of water, and the situation has resulted in the loss of usable abutting property and flooded basements. The current conditions are beyond the means of DPW equipment and personnel. It will require a detailed investigation, a plan of recommended improvements, a design drawing and specifications, environmental permitting, and bidding of construction to be overseen by the Town's Engineering Division. This will return the waterways to a condition that the DPW will be able to maintain. The Environmental Protection Agency (EPA) has finalized stronger requirements for stormwater and permitting under the National Pollution Discharge Elimination System (NPDES) permit. The Town will need to continue to demonstrate its efforts regarding cleaning and improving the water quality of brook and culverts to avoid fines from the EPA.

Rosemary Brook

- The section of the brook being addressed has sediment, vegetation, and eroded banks that cause flow capacity and water quality issues.
- Remove sediment and vegetation and repair and/or replace failing walls.

Alder Brook

- This is a category 5 impaired water body under NDPES. Category 5 is worst rating a water body can receive from the EPA. It required cleaning that will remove the phosphorus contaminated sediment and improve water quality.
- Remove sediment and vegetation, and repair/replace failing walls/culverts.

Guardrail

• Many of the Town's guardrails are noncompliant and DPW is preparing a plan internally to systematically upgrade existing guardrails to make them both compliant and aesthetically pleasing.

	Capital Project Req	uest	
Project Title:	Public Works Infrastructure Program	Fiscal Year:	2020

447 Dedham Avenue to Town Line

- The decorative guardrail that was installed over 40 years ago is not code compliant. The current guardrail does not meet state guidelines.
- This will replace the existing guardrail with a replacement option that will be selected which will be aesthetically pleasing, compliant, and safe. If Newell Bridge is not replaced prior to this project, this funding will be redirected to the Needham Dover line, as that guardrail is in worse condition.

Funding Schedule

		F	Y 20	F	Y 21	F	Y 22	F	Y 23	FY 24	
Category	Project	D & E	Const.	D&E	Const.	D & E	Const.	D&E	Const.	D&E	Const.
Street Resurfacing			\$924,550		\$957,000		\$990,000		\$1,025,000		\$1,060,000
Roadway Reconstruction						\$150,000			\$1,500,000		
Sidewalk Program			\$512,500		\$525,000		\$540,000		\$555,000		\$570,000
Intersection Improvements	Highland Ave at West St				\$575,000						
Intersection Improvements	Central Ave at Great Plain Ave							\$166,000			\$1,200,000
Bridge Repair	Newell's Bridge	\$100,000									
Storm Drain Capacity Improvements	Ardmore Rd & Hunnewell St		\$362,500								
Storm Drain Capacity Improvements	Concord St and Burnside Rd			\$83,000			\$523,000				
Storm Drain Capacity Improvements	TBD							\$103,500			
Storm Drain System Repairs	470 South St		\$270,000								
Storm Drain System Repairs	TBD				\$75,000		\$75,000		\$75,000		\$75,000
Brooks & Culverts	Rosemary Brook				\$200,000						
Brooks & Culverts	Alder Brook									\$200,000	
Guardrail									\$100,000		

Capital Project Request

Project Title: Public Works Infrastructure Program Fiscal Year: 2020

Future Projects

Intersection Improvements

Great Plain Avenue at Greendale Avenue, Kendrick Street at Third Avenue, and Kendrick Street at Fourth Avenue.

Storm Drain Capacity Improvements

Carey Road (Area 2), Lower Hunnewell Street Drainage Improvements, Oak Street (Area 8), Mackintosh Avenue (Areas 3 & 7), Oxbow Road (Area 9), and West Street (Area 11), and Fairfield Street and Elmwood Road (Area 5).

Brooks & Culverts

Winding River Road, Locust Lane, Fuller Brook Avenue, Oxbow Road, Webster and Howland Streets, Brookside Road and Forest Street, Chestnut Street and Carriage Lane, Emerson Place, Pennsylvania Avenue, and Elder Road.

Roadway Reconstruction

Nehoiden Street, Kingsbury Street (received an interim full width overlay patch in CY16), Sections of Central Avenue, Webster Street from Dedham Avenue to South Street (received an interim full width overlay patch in CY16).

Guardrail

Central Avenue, Hillside Avenue at Rosemary Street, various locations along Rosemary Street, various locations along Dedham Avenue, High Rock Street at Warren Street, South Street at Dedham Avenue, South Street near Farley Pond Road, Brookline Street at Mitchell School, Greendale Avenue at railroad bridge, Perry Drive, Coulton Park, Harris Avenue, Charles River Street, Central Avenue at Dover town line, multiple locations along Great Plain Avenue, Pilgrim Road, Cartwright Road, Ivy Road, Marshall Street, West Street, Abbott Street, Carter Street, Pershing Road, Chapel Street lot, Oak Knoll Terrace, Blake Street, Highland Avenue near Fire Station #2, Fisher Street near railroad tracks, Parkland Road, and Brookside Road.

Clarification of Questions

- 3. Conservation Commission permitting may be required for drainage repairs, brooks and culvert repair, and roadway reconstruction.
- 14. The School Safety Committee documented safety issues on Nehoiden Street and Marked Tree Road.
- 19. A potential increase in electrical costs from traffic signals may require additional budget funds from the Needham Electric Light and Gas Program.

				Capital Projec	t Request					
Project Title:	Asa Small Field Ren	ovation						Fiscal Year:		2024
urpose:	Design/Engineering	Cla	ssification: Infr	astructure	Si	atus:	Informational	l Only Details Incom	plete	
epartment:	Public Works - Parks a	nd Forestry	_		S	upports:	Culture and Le	eisure		
artners:	Park and Recreation, N	Needham Youth Spo	rts Groups		U	seful Life:	More than tw	enty-five (25) years		
				Parameters Parameters					<u>F</u>	Response
. Are there any co	osts to bid, design, const	truct, purchase, inst	all, implement, or ot	herwise complete	the project which a	re NOT include	ed is this request?	?	No	
. Are there recom	nmendations or costs ide	entified by other de	partments which are	NOT factored into	o the request?				No	
. Does this projec	ct require any permitting	g by any Town or Sta	ate agency?						Yes	
. If this request is	for Technology, has the	Department comm	unicated with ITC, a	nd does ITC suppo	rt the request?				No	
If this request is	for Building Improveme	ents, has the Depart	ment communicated	with the Building	Maintenance (BM)	division, and	does BM support	the request?	No	
. If funded, will a	dditional permanent sta	ff be required?					Total New FTI	E's: 0	No	
If funded, will th	ne operating budget nee	ed to be increased to	cover operating exp	enses?					No	
. If funded, will th	nis project lower the req	uesting Department	t's operating costs?						No	
. If funded, will th	nis project require ongoi	ing assistance from v	vendors at an additio	nal expense to the	e Town which is NC	T already budg	geted?		No	
0. If the project is	s NOT funded, will curre	nt Town revenue be	reduced?						No	
1. Is specialized t	raining or annual licensi	ng required that the	Town will need to p	ay in order to use	the asset?				No	
2. Is this a project	t for which an Initial Elig	ibility Project Applic	cation can be filed wi	th the Community	Preservation Com	mittee (CPC)?			Yes	
3. Is this a reques	st in response to a Court	, Federal, or State o	rder?						No	
4. Is this a reques	st in response to a docur	mented public healtl	h or safety condition	?					No	
5. Is this a reques	st to improve or make re	epairs to extend the	useful life of a buildi	ng?					No	
6. Is this a reques	st to purchase apparatus	s/equipment that is	intended to be perm	anently installed a	at the location of its	use?			No	
7. Is this a reques	st to repair or otherwise	improve public pro	perty which is NOT a	building or infrast	tructure?				No	
8. Will any other	department be required	d to provide assistan	ce in order to compl	ete the project?					No	
9. If funded, will t	this project increase the	operating expense	for any other depart	ment?					No	
roject Cost:	Но	w was the Project C	ost Determined:							
udget Impact:	Negligible impact on the	he annual operating	expenses less than \$	5,000						
Project Bud	lget Elements P	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibilit	•	\$0								
esign/Engineerin	g	\$0								
and/ROW Acquis	ition	\$0								
te Preparation		\$0								
onstruction		\$0								
onstruction Mana	agement	\$0								
quipment		\$0								
	, and Equipment	\$0								
echnology Hardw	vare/Software	\$0								
ther Expenses		\$0								
· · · · · · · · · · · · · · · · · · ·		\$0	\$0	\$0	\$0		60	\$0	\$0	

		Capital Project Request		
Project Title:	Asa Small Field Renovation	Fisc	al Year:	2024

Project Description and Considerations

Project Summary

- This project will address the field deficiencies on the Asa Small ball diamond at the DeFazio complex that were not included in the scope of work for the Field of Dreams project. This has been on the Little League priority list for several years. The Town recently completed a minor infield renovation.
- The Town will hire a contractor to strip the existing turf, regrade the field, amend soils, replace the baseball skin surface, and install a new irrigation system. This project may include additional amenities such as field lights, a score board, bleachers, and a larger batting cage that will be funded by user groups. The Parks & Forestry Division will work with the user groups to identify any value added items.

Changes from Prior Year Submission

• The Parks & Forestry Division changed the status of this request to informational and pushed it to FY24 because Little League is undergoing a restructuring in leadership and the priority of projects may change as a result.

Clarification of Questions

- 3. This project may require permitting from the Conservation Commission, Planning Board, Zoning Board of Appeals, and Building Department.
- 12. This project may be eligible for Community Preservation funds under Recreation.

				Capital Project	Request				
Project Title: A	Athletic Facility	and Public Recreation	on Improvements				Fi	scal Year:	2020
Purpose:	Construction	С	lassification: Inf	rastructure	St	atus:	Amended Request fro	om the Prior CIP	
Department: P	ublic Works - Par	ks and Forestry			Si	upports:	Culture and Leisure		
Partners: P	ark and Recreation	on			U	seful Life:	Between twelve (12)	and eighteen (18)	years
				<u>Parameters</u>					Response
L. Are there any cost	s to bid, design, c	onstruct, purchase, ins	stall, implement, or o	therwise complete	the project which a	re NOT included i	s this request?		No
2. Are there recomm	endations or cost	ts identified by other d	epartments which ar	e NOT factored into	the request?		·		No
		tting by any Town or S							Yes
I. If this request is fo	r Technology, ha	s the Department com	municated with ITC, a	and does ITC suppor	rt the request?				No
		rements, has the Depar				division, and doe	s BM support the req	uest?	No
5. If funded, will add	itional permanen	t staff be required?			· · ·		Total New FTE's: 0		No
		need to be increased	to cover operating ex	penses?					No
		requesting Departme		•					No
. If funded, will this	project require o	ngoing assistance from	vendors at an additi	ional expense to the	Town which is NC	T already budgete	ed?		No
.0. If the project is N	OT funded, will c	urrent Town revenue b	pe reduced?			, ,			No
1. Is specialized trai	ning or annual lic	ensing required that th	ne Town will need to	pay in order to use	the asset?				No
2. Is this a project for	or which an Initia	Eligibility Project Appl	ication can be filed w	vith the Community	Preservation Com	mittee (CPC)?			Yes
3. Is this a request i	n response to a C	ourt, Federal, or State	order?						No
4. Is this a request i	n response to a d	ocumented public hea	Ith or safety condition	n?					No
5. Is this a request t	o improve or mal	ke repairs to extend th	e useful life of a build	ling?					No
.6. Is this a request t	o purchase appar	ratus/equipment that i	s intended to be perr	manently installed a	t the location of its	use?			No
		wise improve public pr							No
.8. Will any other de	partment be requ	uired to provide assista	nce in order to comp	lete the project?					Yes
9. If funded, will thi	s project increase	the operating expense	e for any other depar	tment?					No
Project Cost: \$	5,631,500	How was the Project	Cost Determined:	Hi	red Consultant				
Budget Impact:	legligible impact (on the annual operatin	g expenses less than	\$5,000			•		
Project Budge	t Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
lanning/Feasibility		\$0							
esign/Engineering		\$239,500	\$70,000	\$62,500	\$107,000				
and/ROW Acquisition	on	\$0							
ite Preparation		\$0							
Construction		\$5,392,000	\$2,880,000	\$550,000	\$570,000	\$1,102,000	\$290,000		
onstruction Manage	ement	\$0							
quipment		\$0							
urniture, Fixtures, a	nd Equipment	\$0							
echnology Hardwar	e/Software	\$0							
Other Expenses		\$0							
			\$2,950,000		\$677,000		\$290,000	\$0	

		Capital Project Request		
Project Title:	Athletic Facility and Public Recreation Improvements		Fiscal Year:	2020

Project Description and Considerations

The Department of Public Works and Park and Recreation have developed a maintenance plan for all fields, which includes new construction, total reconstruction, partial renovation, irrigation, drainage improvements, and equipment replacement or repair (bleachers, fences/backstops, player benches, and miscellaneous equipment) for multi-use fields and ball diamonds.

Project Summaries

Turf Field Replacement at DeFazio Field and Memorial Park

- Artificial turf ages and over time compacts, creating a harder surface for playing. Each year, an impact (g-max) test is performed on all artificial turf fields in Town. The most recent test shows that these fields are approaching the end of their useful life.
- The Town will hire a contractor to remove the existing turf carpet, regrade, and install new artificial field turf. This needs to be done during the summer (off-season) so it can be made available for fall sports.

Cricket Field

- There is not a fully functioning irrigation system at this field, the current system was gifted to the Town over 15 years ago and is showing signs of age. When the existing irrigation system is in full operation, the sprinkler heads do not fully engage until several minutes of operation which is not an efficient use of water. The grading on this site is inconsistent and leads to localized drainage problems.
- All existing turf will be stripped and the top soil will be removed and stored on site. The whole site will then be sub-graded. And the top soil will be placed back on site and amended in place with sand, then blended for improved drainage. The site will then be laser graded to ensure that water slopes off the surface, and then sod will be laid. As part of the removal of turf and soil, the existing irrigation system will be abandoned in place and new water efficient irrigation system will be installed.

Claxton Field

These two projects do not need to be coordinated as they affect different areas of the field.

Field Lighting

- The field currently has metal halide field lights that require increasing maintenance as they age. Metal halide is one of the least efficient lighting types currently available, the bulbs have a short life span that require frequent replacements, and they light an area as opposed to a focused directional light.
- This project will address upgrading the field lighting system to more energy efficient lights. The project will evaluate the lighting needs of the field and
 make recommendations for improvement. The construction of these lights will be done in the fall season to prepare for the following spring softball
 season.

		Capital Project Request		
Project Title:	Athletic Facility and Public Recreation Improvements		Fiscal Year:	2020

Supplemental Information

Softball Skin Renovation Fields 1 & 2

- Softball fields have the entire infield as clay skin, unlike baseball diamonds which is a combination of skin and turf; this makes the grading of the skins very important as any imperfections will cause puddling. The current fields were constructed on a closed landfill that was not properly graded due to site conditions, settling of materials, and age. After heavy rains, there is puddling on the skin which can lead to frequent field closures.
- This project will remove the existing skin clay material, evaluate the conditions below the skin, and make amendments and regrade as necessary. Proper drainage materials will be brought in, laser graded, and clay skins will be replaced.

McLeod Field

- Since the field was renovated in 2009, there has been several drainage issues related to the 4' drain pipe that runs through the field. This has caused sink holes that require emergency repair for the field to be safely used. These sink holes appear after large rain events that wash out the materials from underneath the field.
- Currently there are several methodologies that vary in terms of invasiveness and cost to address this issue that will be vetted out in design. This will address both the 4' drain and the subsurface of the field that has been eroded by storm water events. The budget proposed is for one of the more invasive approaches to ensure there is sufficient funding to return the field to operation.

Broadmeadow and Eliot Fields

- Both the Broadmeadow and Eliot School fields are showing signs of age due to inappropriate subsurface materials which impact the health of the turf and have made it difficult to provide a suitable playing surface at these fields. Additionally, this problem at the Broadmeadow is exacerbated by the physical location that has surface drainage from neighboring areas draining into the field.
- All existing turf will be stripped and the top soil will be removed and stored on site. The whole site will be sub-graded and the top soil will be placed back on site and amended in place with sand, then blended for improved drainage. The site will then be laser graded to ensure that water slopes off the surface, and then sod will be laid. At the Broadmeadow, there may be additional storm water capturing systems to be designed to alleviate the excessive flooding problem. These will be vetted out during the design process.

Town-Wide Fencing Improvements

DeFazio Tot Lot

- The perimeter chain link fencing is showing age, including rust and damage. Improvements have been delayed on this fence due to the uncertain nature of the site. With the new Facilities Master Plan being completed, this facility is envisioned to be used well into the future and the fence should be replaced.
- The existing posts will be evaluated and those that are suitable will be reused. The chain link fabric will be disposed of and replaced in kind.

DeFazio Complex

• Various fencing structures including perimeter fencing, backstops, and players benches are showing age and use. These fields are in very high use and receive the most wear and tear, which may cause the life cycle of the fencing and related structures to be shortened.

Capital Project Request

Project Title: Athletic Facility and Public Recreation Improvements

Fiscal Year:

2020

• The existing posts will be evaluated and those that are suitable will be reused. The chain link fabric will be disposed of and replaced in kind.

Funding Schedule

	ı	Y 20	FY 21		FY 22		FY 23	FY 24	
Project	D & E	Const.	D&E	Const.	D&E	Const.	D&E	Const.	
Turf Carpet Replacment		\$2,500,000							
Crickets Field - Renovation		\$380,000							
Claxton Field - Lights	\$70,000			\$550,000					
Claxton Field - Fields			\$17,500			\$120,000			
McCloud Field -Renovation			\$45,000			\$450,000			
Broadmeadow & Eliot Fields - Renovation					\$107,000		\$1,102,000		
Various Fencing Improvements								\$290,000	

Changes from Prior Year Submission

- Claxton lighting was not funded in FY19 and has since been broken down into two components (Design and Construction) and resubmitted for FY20 and FY21.
- McLeod Field Design increased by \$10,000 based on the complexity of design.

Future Projects

- Needham Heights Common Renovation design of sidewalks, irrigation, landscape improvements, hardscape, electrical and lighting, park benches
- DeFazio Complex install walking path with protective netting to DeFazio #1
- Charles River Water Treatment Plant mitigation of red pines tree stand in the well fields
- · Hillside and Mitchell renovation of fields
- Nike, Ridge Hill, and Hillside construction of new athletic fields
- DeFazio Complex track resurfacing
- High Rock Field fencing

Clarification of Questions

- 3. Conservation Commission permitting and Planning Board filing may be required.
- 12. All items except for Turf Fields are eligible for Community Preservation Funds.
- 18. The Department of Public Works will be partnering with Park and Recreation.

				Capital Proje	ect Request					
Project Title: Pa	ssive Recreation	on Improvements - [Owight Field/Char	les River Cente	•			Fiscal Year:		2020
Purpose: De	sign/Engineerin	Cla	assification: Inf	frastructure	S	tatus:	New Request			
Pu	blic Works - Park	s and Forestry			S	upports:	Culture and Le	isure		
artners: Ch	arles River Cente	er			ι	Jseful Life:	Between eight	een (18) and twent	y-five (25)	years
				<u>Parameters</u>	•					Response
. Are there any costs	to bid, design, co	onstruct, purchase, inst	all, implement, or o	therwise complet	e the project which	are NOT include	ed is this request?		No	
. Are there recomme	ndations or costs	identified by other de	partments which ar	e NOT factored ir	to the request?				No	
. Does this project red	quire any permit	ting by any Town or St	ate agency?		·				No	
. If this request is for	Technology, has	the Department comn	nunicated with ITC,	and does ITC supp	ort the request?				No	
		ements, has the Depart				division, and	does BM support t	he request?	No	
. If funded, will additi	onal permanent	staff be required?			· · · · · · · · · · · · · · · · · · ·		Total New FTE	's: 0	No	
. If funded, will the o	perating budget	need to be increased to	cover operating ex	kpenses?			•		No	
		requesting Departmen	· · ·	·					No	
		going assistance from	<u> </u>		he Town which is N (OT already budg	geted?		No	
		rrent Town revenue b				,			No	
		ensing required that the		pay in order to us	e the asset?				No	
		Eligibility Project Appli		· ·		mittee (CPC)?			Yes	
		ourt, Federal, or State o			,	, ,			No	
4. Is this a request in	response to a do	cumented public healt	h or safety conditio	n?					No	
	•	e repairs to extend the							No	
		atus/equipment that is			at the location of it	s use?			No	
		vise improve public pro							No	
		ired to provide assistar							No	
9. If funded, will this	project increase	the operating expense	for any other depar	rtment?					No	
		How was the Project (n-House Estimate					
	-	n the annual operating		\$5,000				<u> </u>		
Project Budget	Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
anning/Feasibility		\$0						_		
esign/Engineering		\$35,000	\$35,000							
and/ROW Acquisition		\$0								
te Preparation		\$0								
onstruction		\$350,000		\$350,000						
onstruction Manager	nent	\$0								
quipment		\$0								
urniture, Fixtures, and	d Equipment	\$0								
echnology Hardware,	/Software	\$0								
ther Expenses		\$0								

	Capital Project Request		
Project Title:	Passive Recreation Improvements - Dwight Field/Charles River Center	Fiscal Year:	2020

Project Description and Considerations

The Parks and Forestry Division and Charles River Center are presenting a plan to make substantial improvements to the Town-owned quarter acre passive recreation area behind the Charles River Center on Dwight Road, adjacent to the baseball diamond at Dwight Field. This area is frequently used by participants in Charles River Center programming and residents of Charles River properties. During baseball season, the park is used by families who have children participating in the baseball programs.

Project Summary

- This parcel is presently in disrepair and suffers from drainage issues. There are trees on site that are no longer viable, creating safety concerns, and the ground cover has been eroded by stormwater. This park does not have good accessibility due to the elevation and the park is presently accessed from the Charles River Center by several stairs.
- This project will include removing the existing ground covering, regrading the site, making drainage improvements, installing new turf, removing and pruning problematic trees, planting new trees, creating an accessible entrance into the park areas, and other site amenities. Additionally, site furniture will be installed for passive recreation including picnic tables and benches, a small covered pavilion similar to what was installed at Greene's Field, and other small recreational equipment that can be used by children whose siblings are playing baseball. There will be a focus on low maintenance installations to reduce reoccurring costs. This will require some additional grass mowing, but it should take minimal time due to the connection to the field.

Clarification of Questions

12. This should meet the eligibility requirements CPA funding under the recreational category.

				Capital Proj	ject Request					
Project Title:	Town Common	n Historic Redesign a	nd Beautification	on		_		Fiscal Year:	2	2020
Purpose:	Design/Engineer	ing	Classification:	Infrastructure		Status:	Amended Request	t from the Prior CI	P	
Department:	Public Works - Pa	arks and Forestry				Supports:	Culture and Leisure	e		
Partners:	Town Manager, I	TC				Useful Life:	Between eighteen	(18) and twenty-fi	ve (25) ye	ars
				<u>Parameters</u>					<u>Re</u> :	<u>sponse</u>
1. Are there any co	osts to bid, design,	construct, purchase, in	nstall, implement,	or otherwise comple	ete the project whic	h are NOT include	d is this request?		No	
2. Are there recon	nmendations or co	sts identified by other	departments whic	ch are NOT factored i	into the request?				No	
3. Does this project	t require any pern	nitting by any Town or	State agency?						Yes	
4. If this request is	for Technology, h	as the Department cor	nmunicated with I	ITC, and does ITC sup	port the request?				Yes	
5. If this request is	for Building Impro	ovements, has the Dep	artment communi	icated with the Buildi	ing Maintenance (B	M) division, and d	oes BM support the r	request?	No	
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will th	ne operating budge	et need to be increased	d to cover operatir	ng expenses?					No	
8. If funded, will th	nis project lower th	ne requesting Departm	ent's operating co	sts?					No	
	<u> </u>	ongoing assistance fro		dditional expense to	the Town which is I	NOT already budge	eted?		No	
		current Town revenue							No	
11. Is specialized t	raining or annual li	icensing required that	the Town will need	d to pay in order to u	ise the asset?				No	
12. Is this a projec	t for which an Initi	al Eligibility Project Ap	plication can be fil	led with the Commur	nity Preservation Co	mmittee (CPC)?			Yes	
13. Is this a reques	st in response to a	Court, Federal, or State	e order?						No	
14. Is this a reques	st in response to a	documented public he	alth or safety cond	dition?					No	
	· · · · · · · · · · · · · · · · · · ·	ake repairs to extend t							No	
		aratus/equipment that		· · · · · · · · · · · · · · · · · · ·		its use?			No	
		rwise improve public p	<u> </u>						No	
	•	quired to provide assis			?				Yes	
19. If funded, will		se the operating expen		·					No	
Project Cost:	\$1,023,000	How was the Project			Hired Consultant					
Budget Impact:		t on the annual operat								
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit		\$0	4	_						
Design/Engineerin	-	\$117,000	\$117,000	0						
Land/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$906,000		\$906,000						
Construction Man	agement	\$0								
Equipment		\$0								
Furniture, Fixtures		\$0								
Technology Hardw	/are/Software	\$0								
Other Expenses		\$0							_	
TOTAL		\$1,023,000	\$117,000	\$906,000	\$0	\$	0 \$0	\$	0	\$0 EV2020

	Capital Project Request		
Project Title:	Town Common Historic Redesign and Beautification	Fiscal Year:	2020

Project Description and Considerations

The Town completed an internal design process for the Town Common and drafted a scope of service which includes improved hardscape, landscaping, amenities, tree plantings, and utility upgrades that are consistent with the historic nature of the Common and the new Downtown Streetscape Improvement Project.

Project Summary

- The Town Common shall be redesigned to maximize the current usage of space, complement Town Hall, enhance the "blue tree", and integrate with the new Downtown Streetscape Improvement Project.
- This project will install new sod, trees, plantings, low maintenance hardscape materials, and increase handicap accessibility. The pathways and landscaping will be adjusted to become more aesthetically pleasing and functionally enhanced. There will be increased electrical and sound capacity to accommodate Town-wide events.

Changes from Prior Year Submission

• The FY20 request for design funding increased based on a revised scope of service and quote from an engineering firm.

Clarification of Questions

- 3. This project may be subject to Planning Board review.
- 4. ITC will need to be involved for Wi-Fi and electrical connectivity.
- 12. This project is being evaluated for eligibility of Community Preservation Funds under the category of Historic Preservation.
- 18. The Town Manager's Office will be involved.

				Capital Proje	ct Request					
Project Title:	RTS Property Ir	mprovements						Fiscal Year:		2020
urpose:	Construction	CI	assification: Inf	rastructure	St	atus:	Amended Request	from the Prior	CIP	
Department:	Public Works - RT	rs .	•		Su	upports:	Utilities			
artners:	Public Facilities C	Construction, Building Ma	intenance		U:	seful Life:	Between eighteen	(18) and twenty	/-five (25) y	/ears
				Parameters					<u>R</u>	esponse
. Are there any c	osts to bid, design,	construct, purchase, ins	tall, implement, or o	therwise complete	e the project which a	re NOT included	l is this request?		No	
. Are there recon	nmendations or co	sts identified by other de	partments which ar	e NOT factored int	to the request?				No	
. Does this projec	ct require any perm	nitting by any Town or St	ate agency?						Yes	
. If this request is	s for Technology, h	as the Department comr	nunicated with ITC, a	and does ITC suppo	ort the request?				No	
. If this request is	s for Building Impro	ovements, has the Depar	tment communicate	d with the Building	g Maintenance (BM)	division, and do	es BM support the i	request?	Yes	
i. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
'. If funded, will t	he operating budge	et need to be increased t	o cover operating ex	penses?					No	
. If funded, will t	his project lower th	ne requesting Departmer	nt's operating costs?			<u> </u>		<u> </u>	No	
. If funded, will t	his project require	ongoing assistance from	vendors at an addit	ional expense to th	ne Town which is NO	T already budge	ted?		No	
		current Town revenue b							No	
1. Is specialized t	raining or annual li	icensing required that th	e Town will need to	pay in order to use	e the asset?				No	
2. Is this a projec	t for which an Initi	al Eligibility Project Appl	cation can be filed v	vith the Communit	y Preservation Com	mittee (CPC)?			No	
.3. Is this a reque	st in response to a	Court, Federal, or State	order?						No	
4. Is this a reque	st in response to a	documented public heal	th or safety conditio	n?					No	
	<u> </u>	ake repairs to extend the							Yes	
		aratus/equipment that is		•		use?			Yes	
		rwise improve public pro	<u> </u>		structure?				No	
		quired to provide assista	·						Yes	
.9. If funded, will		se the operating expense						•	No	
Project Cost:	\$945,500	How was the Project (ndustry References					
Budget Impact:		t on the annual operating		<u> </u>						
-	dget Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibili	•	\$0								
Design/Engineerin	•	\$18,975		\$18,975						
and/ROW Acquis	sition	\$0								
ite Preparation		\$0				,				
onstruction		\$926,525	\$295,000	\$382,525	\$124,500	\$124,500)			
onstruction Man	agement	\$0								
quipment		\$0								
•	s, and Equipment	\$0								
echnology Hardv	vare/Software	\$0								
Other Expenses		\$0	\$295,000				\$0		\$0	
TOTAL		\$945,500		\$401,500	\$124,500	\$124,500				

		Capital Project Request		
Project Title:	RTS Property Improvements		Fiscal Year:	2020

Project Description and Considerations

Project Summaries

This article will be used to fund improvements to the Recycling & Transfer Station (RTS) facility to increase efficiency, comply with regulatory requirements, and improve the facility function.

Fencing Improvements

- Presently the RTS is accessible to the public after hours. This fencing will minimize public access and increase security.
- This is for the purchase and installation of two new chain link gates and a chain link fence with privacy slats in the same location as the current security fencing at the RTS.

Fabric Structures for Open Top Containers

- The RTS uses 100-yard open top containers to haul trash and recyclables. During the winter, the loaded trailers are left outside and the loads of trash or recyclables inside the containers often freeze, making the trailers impossible to empty until the loads thaw. Containers cannot be tarped in the event of snow due to safety concerns about having the snow shoveled by staff or the driver from the tarps if they were covering the load of trash or recyclables.
- The plan is to purchase and install a fabric covered storage facility for four containers to prevent precipitation from accumulating. To minimize freezing of loads and to allow containers to be covered at all times when full, a 65' x 70' fabric covered steel skeletal structure would be built over the existing 2 concrete pads on which four 100-yard open top containers are parked.

Jersey Barriers

- In 2014 the Town received a Negative Determination of Applicability from the Conservation Commission that required the separation of the composting operations from the wetlands.
- This request is to purchase and install 300 jersey barriers that will be used to create a barrier between the composting operation and the wetlands.

Expansion of Scale

- The extended scale will accurately determine the weights of materials being shipped out of or dropped off at the RTS. Presently, the Town uses approximate values for these materials.
- This is for the purchase and installation of two 18' x 10' panels to extend the existing scale which is 40 feet and insufficient to take the accurate weight of the Town's 100 yard open top containers and contractor's larger vehicles.

	Capital Project R	equest	
Project Title:	RTS Property Improvements	Fiscal Year:	2020

Supplemental Information

Stormwater Improvements

• The RTS composting operation is presently under a July 2014 Conservation Commission Negative Determination of Applicability (NDA). This NDA was put in place as a result of adverse impacts to the wetlands from the compost operations. The NDA calls for the mitigation of potential stormwater issues at the site. At the present time, untreated stormwater runoff is entering a perennial stream that feeds the wetlands a butting the composting operations. This project will assist the Town in complying with the 2016 NPDES MS4 Permit.

Area 1

• The construction of a sediment removal structure at the compost area.

Area 3

• A new detention basin at the base of the landfill that will control stormwater runoff from the materials processing area and the road behind the salt shed.

Area 2

· The stormwater management collection system for the proposed paving of the road behind the salt shed.

Funding Schedule

	FY 20	FY 21		FY 22	FY 23
Project	Const.	D&E	Const.	Const.	Const.
Fencing Improvements	\$45,000				
Covered Storage for Open Top Containers		\$18,975	\$107,525		
Jersey Barriers				\$124,500	
Extension of Scale					\$124,500
Stormwater Improvements Area 1 & 3	\$250,000				
Stormwater Improvements Area 2			\$275,000		

Changes from Prior Year Submission

- The cost of the fencing for FY20 has increased over the prior year due to increased materials costs and an increase in the length of the fence.
- Addition of fabric structure in FY21 as a result of freezing MSW loads being rejected from Wheelabrator.
- Jersey barriers pushed out from FY 21 to FY22 to allow for the funding of the fabric structure.
- Extension of scale was pushed out from FY22 to FY23 to allow for the funding of the fabric structure.
- Merged the RTS Stormwater Plan into this request. This work must be coordinated and staged with other work occurring at the facility and the timing of the funding between these programs is key for the success of both programs.

	Capital Project Request		
Project Title:	RTS Property Improvements	Fiscal Year:	2020

Future Projects

Area 4

The re-grading of the materials processing area; this re-grading will require all stormwater runoff to be shifted away from the wetlands. Replace 3,000 gallon diesel fuel tank.

RTS Building Improvements

The Recycling and Transfer Station has grown organically over the years and currently includes seven separate buildings:

- 1. Transfer station building with customer reception area has been abandoned and is currently being used as storage due to lack of ADA compliance, insufficient barrier to the transfer station, deteriorated bathroom facility, and areas with mold.
- 2. A new office trailer that is temporary in nature has been installed in front of the transfer station building. This is a temporary solution.
- 3. 3-Bay garage used for surplus paint and equipment storage and Re-use-it area
- 4. Employee break trailer with storage and restroom are not ADA compliant
- 5. REX building garage with Superintendent Office and restroom are not ADA compliant. The garage is not properly insulated or heated.
- 6. Surplus paint reuse shed and hazardous waste locker
- 7. 12 foot storage container

Some of the limitations of the current facility include:

- Superintendent's office is isolated from the day-to-day operations and staff activity, making supervision and oversight challenging
- No shower facilities on site for staff working in extremely dirty environment
- Limited secure storage
- Employee lunch/break room is in a donated second-hand trailer located in isolated area of facility

Looking to the future, in order to improve efficiency and oversight of operations, provide adequate working conditions, and p rovide secure storage, new quarters at the RTS are desperately needed. The new area would combine the functions of five separate storage buildings into one facility attached to the existing transfer station building. The new facility would include: customer service area, staff office, superintendent office, employee lunch/break room, meeting room, restroom, shower facilities, and secure storage area all in a single facility. The new facility would most like ly be a three-story addition to the existing transfer station building consisting of secure storage and shower/locker room on the ground level, customer reception and office area on the first floor, and meeting room and employee break room on the second floor. A May 2014 Annual Town Meeting Warrant approved funding for a temporary office trailer to provide adequate customer service, office, and restroom facilities and to bring the superintenden t's office into the main operations area. This trailer is intended to be temporary and is situated so as not to interfere with potential transfer station expansion.

	Capital Proj	ect Request	
Project Title:	RTS Property Improvements	Fiscal Year:	2020

Clarification of Questions

- 3. This project may have to go to the Planning Board for Site Plan Review and may be subject to Conservation Commission permitting requirements.
- 5. This project involves building improvements to the Transfer Station Building and Roof. The RTS has communicated with Building Maintenance and this division supports the request.
- 15. This is a request to improve or make repairs to extend the useful life of the Transfer Station Building and Roof.
- 16. The scale is a below ground device and will be permanently installed at the RTS.
- 18. The Conservation Department will be required to provide assistance in order to complete the project.

				Capital Proj	ject Request					
Project Title:	Athletic Fields I	Master Plan						Fiscal Year:		2024
Purpose: F	easibility Study	(Classification: Lar	nd		Status:	Same Request from	m the Prior CIP		
Department:	Park and Recreati	on				Supports:	Culture and Leisure	9		
Partners:	DPW Parks and Fo	orestry Division; Schoo	l Department			Useful Life:	Between twelve (1	2) and eighteen	(18) years	;
				<u>Parameters</u>					<u> </u>	Response
L. Are there any cost	ts to bid, design,	construct, purchase, ir	istall, implement, or o	therwise comple	ete the project whic	th are NOT includ	ed is this request?		No	
. Are there recomm	nendations or cos	sts identified by other o	departments which are	e NOT factored i	into the request?				No	
B. Does this project i	require any perm	itting by any Town or S	State agency?						No	
I. If this request is fo	or Technology, ha	as the Department com	nmunicated with ITC, a	and does ITC sup	port the request?				No	
. If this request is fo	or Building Impro	vements, has the Depa	artment communicate	d with the Buildi	ing Maintenance (B	M) division, and	does BM support the r	equest?	No	
. If funded, will add	litional permaner	nt staff be required?					Total New FTE's:		No	
. If funded, will the	operating budge	t need to be increased	to cover operating ex	penses?					No	
3. If funded, will this	project lower th	e requesting Departme	ent's operating costs?						No	
. If funded, will this	project require	ongoing assistance fror	n vendors at an additi	onal expense to	the Town which is	NOT already bud	geted?		No	
.0. If the project is N	NOT funded, will	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									Yes	
3. Is this a request i	in response to a (Court, Federal, or State	order?						No	
4. Is this a request i	in response to a o	documented public hea	alth or safety condition	n?					No	
.5. Is this a request	to improve or ma	ike repairs to extend th	ne useful life of a build	ling?					No	
.6. Is this a request	to purchase appa	ratus/equipment that	is intended to be pern	manently installe	d at the location of	its use?			No	
.7. Is this a request	to repair or othe	rwise improve public p	roperty which is NOT a	a building or infr	astructure?				No	
.8. Will any other de	epartment be req	uired to provide assist	ance in order to comp	lete the project	?				Yes	
9. If funded, will th	is project increas	e the operating expens	se for any other depar	tment?					No	
,	75,000	How was the Project			In-House Estimate					
Budget Impact:	Negligible impact	on the annual operati	ng expenses less than	\$5,000						
Project Budge	et Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
lanning/Feasibility		\$75,000					\$75,000			
esign/Engineering		\$0								
and/ROW Acquisition	on	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Manag	gement	\$0								
quipment		\$0								
urniture, Fixtures, a	and Equipment	\$0								
echnology Hardwa	re/Software	\$0								
Other Expenses		\$0								
ΓΟΤΑL		\$75,000	\$0	\$0	\$0)	\$0 \$75,000		\$0	:
\$0										FY

		Capital Project Request		
Project Title:	Athletic Fields Master Plan	Fisc	cal Year:	2024

Project Description and Considerations

The Park and Recreation Commission has been working with user groups to determine how athletic fields are being used and how best to schedule the athletic fields to provide optimal use without jeopardizing the maintenance plan. The organizations and the Commission need to do some additional work together before the scope of a master plan can be created.

Renovations have occurred at several parks, and some school sites will be improved in upcoming years. The study would help the Commission determine whether new athletic fields are needed to accommodate the need and provide feasibility studies on possible locations for new athletic fields. The new Williams School will add a small multi-purpose field into the inventory. It will be a synthetic surface, but will not be large enough for multiple group use.

The ability for the Town to maintain current athletic facilities, along with any possible new facilities, would be included within the study.

This project may be appropriate to submit for a warrant article as opposed to a capital request.

The project has been moved out to a later year, while it waits for additional field improvements to be completed. DPW Parks and Forestry will need to be involved as they are responsible for maintenance of athletic fields.

			Capita	<mark>l Project Request</mark>						
Project Title: B	oat Launch on Charles River						Fi	scal Year:	20	021
Purpose:	onstruction	Classification:	Land		Status:	Same	Request from t	he Prior CIP		
Department: Pa	ark and Recreation				Supports	Cultu	re and Leisure			
artners: Co	onservation Department; Town I	Manager			Useful Lif	e: Betw	een twelve (12)	and eighteen (18) years	
_			<u>Paramete</u>	ers_	_				Res	ponse
. Are there any costs	to bid, design, construct, purch	ase, install, impleme	ent, or otherwise c	omplete the projec	t which are NOT	included is this	request?		No	
. Are there recomme	endations or costs identified by o	other departments w	vhich are NOT fact	ored into the reque	st?				No	
. Does this project re	equire any permitting by any Tov	vn or State agency?							Yes	
. If this request is for	Technology, has the Departmen	nt communicated wi	ith ITC, and does IT	ΓC support the requ	est?				No	
. If this request is for	Building Improvements, has the	e Department comm	unicated with the	Building Maintenar	nce (BM) divisio	n, and does BM	support the req	uest?	No	
. If funded, will addit	ional permanent staff be require	ed?				Total	New FTE's:		No	
. If funded, will the c	perating budget need to be incr	eased to cover oper	ating expenses?						Yes	
. If funded, will this p	project lower the requesting Dep	partment's operating	g costs?						No	
. If funded, will this բ	project require ongoing assistant	ce from vendors at a	n additional exper	nse to the Town wh	ich is NOT alrea	dy budgeted?			No	
0. If the project is N (OT funded, will current Town rev	venue be reduced?							No	
 Is specialized trair 	ning or annual licensing required	that the Town will r	need to pay in orde	er to use the asset?					No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes		
13. Is this a request in response to a Court, Federal, or State order?								No		
4. Is this a request in	response to a documented pub	lic health or safety o	condition?						No	
5. Is this a request to	improve or make repairs to ext	end the useful life o	f a building?						No	
6. Is this a request to	purchase apparatus/equipmen	t that is intended to	be permanently in	nstalled at the locat	ion of its use?				No	
7. Is this a request to	repair or otherwise improve pu	ublic property which	is NOT a building	or infrastructure?					Yes	
8. Will any other dep	partment be required to provide	assistance in order	to complete the p	roject?					Yes	
9. If funded, will this	project increase the operating e	expense for any othe	er department?						No	
roject Cost:	How was the F	Project Cost Determi	ined:	In-House Est	imate					
udget Impact: N	egligible impact on the annual o		ss than \$5,000							
Project Budget	Elements Project Budg	get 2020	2021	2022	20	23	2024	2025	20	026
lanning/Feasibility		\$0								
esign/Engineering		\$0								
and/ROW Acquisitio	n	\$0								
ite Preparation		\$0								
onstruction		\$0								
onstruction Manage	ment	\$0								
quipment		\$0								
urniture, Fixtures, ar	• •	\$0								
echnology Hardware	e/Software	\$0								
Other Expenses		\$0								
ΓΟΤΑL		\$0	\$0	\$0	\$0	\$0	\$0	ć	50	

	Ca	al Project Request	
Project Title:	Boat Launch on Charles River	Fiscal Year: 2	2021

Project Description and Considerations

The Town of Needham is adjacent to a major state resource - the Charles River. It creates about 2/3rds of the Town's border, with the City of Newton, the City of Boston, the Town of Dedham, and the Town of Dover, our neighbors on the other side of the river.

CPC funds of \$30,000 have been awarded to design an improved boat launch into the Charles River on Town-owned property on South Street, near the intersection of Dedham Avenue, but we have not started the formal design process as this is written, so there isn't a construction estimate. One of the on-call engineer firms will be chosen to work with Park and Recreation/Conservation departments on this project. As this is an outdoor recreation project, it is eligible for CPA funds.

There is an existing unimproved launch for canoes and kayaks, with a circular driveway and parking for 10-12 vehicles. There is pedestrian access, only, to the river. The intention is to keep the launch in its natural setting, but create a more consistent access on a pervious path, and possibly creating the ability for vehicles to back up to the launch area with their boats. Depending on the final design, it is hoped that maintenance will be minimal.

At a minimum, permits would be required from the Needham Conservation Commission.

A project estimate can be provided once the designer is able to provide options and the Town chooses a scope of work. Until a design is in place, it is not known whether there would be any maintenance or staffing costs related to operation.

Though design is funded, the project has not moved forward as Conservation and Park & Recreation staff have needed to concentrate on other projects. The Conservation Department is partnering on this project.

				Capital P	oject Request					
Project Title: Ro	osemary Lake, Camp Pro	perty, Trai	1					Fiscal Year:		2020
Purpose: Co	onstruction	Cl	assification:	Land		Status:	Amended Reques	st from the Prior	CIP	
Department: Pa	ark and Recreation			•		Supports:	Culture and Leisu	re		
Partners: DF	PW, Conservation Departme	nt				Useful Life:	Between eighteer	n (18) and twenty	-five (25)	years
•				<u>Parameters</u>		•				Response
1. Are there any costs	to bid, design, construct, pu	urchase, ins	tall, implement, o	or otherwise com	plete the project which	ch are NOT include	ed is this request?		No	
2. Are there recomme	endations or costs identified	by other de	epartments which	n are NOT factore	d into the request?				No	
3. Does this project re	equire any permitting by any	Town or St	ate agency?		·				Yes	
4. If this request is for	Technology, has the Depart	ment comr	municated with I	C, and does ITC s	upport the request?				No	
5. If this request is for	· Building Improvements, ha	s the Depar	tment communic	cated with the Bu	lding Maintenance (B	M) division, and	does BM support the	request?	No	
6. If funded, will addit	ional permanent staff be re	quired?					Total New FTE's:		No	
7. If funded, will the o	perating budget need to be	increased t	o cover operatin	g expenses?					No	
8. If funded, will this p	project lower the requesting	Departmer	nt's operating cos	its?					No	
9. If funded, will this p	project require ongoing assis	tance from	vendors at an ac	lditional expense	to the Town which is	NOT already budg	geted?		No	
10. If the project is NC	DT funded, will current Tow	n revenue b	e reduced?						No	
11. Is specialized train	ning or annual licensing requ	ired that th	e Town will need	to pay in order to	use the asset?				No	
12. Is this a project for	r which an Initial Eligibility P	roject Appli	cation can be file	ed with the Comm	nunity Preservation Co	ommittee (CPC)?			Yes	
13. Is this a request in	response to a Court, Federa	al, or State o	order?						No	
14. Is this a request in	response to a documented	public heal	th or safety cond	ition?					No	
15. Is this a request to	improve or make repairs to	extend the	useful life of a b	uilding?					No	
16. Is this a request to	purchase apparatus/equip	ment that is	intended to be p	permanently insta	lled at the location of	f its use?			Yes	
17. Is this a request to	repair or otherwise improv	e public pro	perty which is N	OT a building or i	nfrastructure?				Yes	
18. Will any other dep	partment be required to pro	vide assista	nce in order to co	omplete the proje	ct?				Yes	
19. If funded, will this	project increase the operat	ing expense	for any other de	partment?					No	
Project Cost: \$2	200,000 How was t	he Project (Cost Determined	:	In-House Estimate					
Budget Impact: Ne	egligible impact on the annu	al operating	g expenses less th	nan \$5,000						
Project Budget	Elements Project I	Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$0								
Land/ROW Acquisition	n	\$0								
Site Preparation		\$0								
Construction	Ç	200,000	\$200,000							
Construction Manage	ment	\$0								
Equipment		\$0								
Furniture, Fixtures, an	nd Equipment	\$0								
Technology Hardware	e/Software	\$0								
Other Expenses		\$0								
TOTAL	\$2	00,000	\$200,000		50 \$0)	\$0 \$	0	\$0	\$
\$0	<u> </u>	-			·		<u> </u>			FY202

	Capital Project Re	quest	
Project Title:	Rosemary Lake, Camp Property, Trail	Fiscal Year:	2020

Project Description and Considerations

The Park and Recreation Commission's vision for Rosemary Lake and the Recreation Complex is that it be a place for year-round outdoor recreation. All Town-owned parcels around the lake are now consolidated and a special permit was placed on the property for the building of the pools and complex, so permits are likely needed from the Planning Board, as well as from Conservation Commission for any parts of the project within their jurisdiction. The projects would also be coordinated with DPW's sediment removal project.

Funding has been provided to remove the buildings at the camp property. The goal is to replace the large building with a picnic shelter for programs and other visitors. Some benches would also be added along the trails. Floating docks will be added to both sides of the lake, with a larger dock on the pool side to accommodate paddle boats to be donated by the Exchange Club. Some minor improvements will be made to the trails. In 2018, the Student Conservation Association rebuilt the bridge over the stream. An Eagle Scout has built two outdoor boat racks to hold the department's canoes and kayaks during the summer season. Additional kayaks will be donated or purchased, and a revolving fund program for use of the boats will be created. As was done at the Needham Accessible Reservoir Trail, small features will be added throughout the trails to encourage children's exploration.

Current estimate is based on informal discussions with vendors, must more formal estimates are in the process of being developed.

The current floating dock on the pool side is approximately 30 years old. Access is down a set of stairs. The Conservation Commission will be asked to consider permitting an adjacent location that is easier to access for people of all abilities.

As this is an outdoor recreation project, it is eligible for CPA funding. Volunteers will be sought to help maintain the trail system, including through the Trail Steward program.

			Capital Proj	ect Request					
Project Title: Po	urchase of Open Space						Fiscal Year:	202	.0
Purpose: Ac	cquisition	Classification:	and .		Status:	Same Request from	n the Prior CIP		
Department: Pa	ark and Recreation	•			Supports:	Culture and Leisure	2		
Partners: Bo	oard of Selectmen, Conservation Com	mission			Useful Life:	More than twenty-	five (25) years		
			<u>Parameters</u>					Respo	nse
1. Are there any costs	to bid, design, construct, purchase, ir	nstall, implement, or	otherwise comple	te the project whic	h are NOT includ	ed is this request?		No	
2. Are there recomme	endations or costs identified by other	departments which	are NOT factored i	nto the request?				No	
3. Does this project re	equire any permitting by any Town or	State agency?						No	
4. If this request is for	Technology, has the Department con	nmunicated with ITC	, and does ITC sup	port the request?				Not Applica	able
5. If this request is for	Building Improvements, has the Depart	artment communica	ted with the Buildi	ng Maintenance (B	M) division, and	does BM support the r	equest?	Not Applica	able
6. If funded, will addit	tional permanent staff be required?					Total New FTE's:		No	
7. If funded, will the o	pperating budget need to be increased	to cover operating	expenses?				_	No	
8. If funded, will this p	project lower the requesting Departme	ent's operating costs	s?					No	
9. If funded, will this p	oroject require ongoing assistance from	m vendors at an add	litional expense to	the Town which is	NOT already budg	geted?		No	
10. If the project is N (OT funded, will current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?								No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes	
13. Is this a request in response to a Court, Federal, or State order?								No	
14. Is this a request in	response to a documented public he	alth or safety condit	ion?					No	
15. Is this a request to	o improve or make repairs to extend t	he useful life of a bu	ilding?					No	
16. Is this a request to	purchase apparatus/equipment that	is intended to be pe	ermanently installe	d at the location of	its use?			No	
17. Is this a request to	repair or otherwise improve public p	roperty which is NO	T a building or infr	astructure?				No	
18. Will any other der	partment be required to provide assist	tance in order to cor	nplete the project?	?				Yes	
19. If funded, will this	project increase the operating expens	se for any other dep	artment?					No	
Project Cost: \$1	1,000,000 How was the Projec	t Cost Determined:		In-House Estimate					
Budget Impact: No	egligible impact on the annual operati	ng expenses less tha	ın \$5,000						
Project Budget	t Elements Project Budget	2020	2021	2022	2023	2024	2025	2020	6
Planning/Feasibility	\$0								
Design/Engineering	\$0								
Land/ROW Acquisitio	n \$1,000,000	\$1,000,000							
Site Preparation	\$0								
Construction	\$0								
Construction Manage	·								
Equipment	\$0								
Furniture, Fixtures, ar									
Technology Hardware	e/Software \$0								
Other Expenses	\$0								
TOTAL	\$1,000,000	\$1,000,000	\$0	\$0	•	\$0 \$0		\$0	\$
\$0									FY202

		Capital Project Request	
Project Title:	Purchase of Open Space	Fiscal Year:	2020

Project Description and Considerations

At the time of this submission, a specific parcel is not known to be available for purchase.

Without much notice, opportunities to purchase private land to add to the open space inventory surface each year. In particular, some opportunities arise during discussions of the development of private land. This project request is to keep all aware of the possibility, in the near future, of a purchase moving forward. This request is a "place holder" in the event a parcel that benefits the community becomes available. It is possible that some purchases would relate to easements, as opposed to full ownership of the land.

Unexpectedly, in FY 2010, the purchase of two parcels of land on Carol Road and Brewster Drive, as well as a parcel on Charles River Street, adjacent to Walker-Gordon Field were all funded through CPA funds. A conservation restriction would need to be placed on the property, under CPA requirements.

The Open Space and Recreation Plan reflects the goal of making additional purchases, especially in areas of Town without current open space to retain open areas, or to create access to other parcels, including connections to the Charles River. The purchase of parcels adjacent to current open space is also a high priority. Some parcels may require improvements which would be submitted as separate capital improvement projects. Under the current CPA legislation, parcels purchased with CPA funds are eligible for improvement funds from CPA. The CPA indicates how the value of the property is determined.

It is hoped that the cost of appraisal and purchase of conservation restriction can be included in the overall budget for purchase.

The Town Manager and Town Counsel would need to be involved in discussions, deliberations and negotiations.

			Capital Proje	ct Request					
Project Title: Out	door Basketball Courts						Fiscal Year:	20	22
Purpose: Cons	truction	Classification: Infra	structure		Status:	Amended Reques	t from the Prior C	IP	
Department: Park	and Recreation	•			Supports:	Culture and Leisur	е		
Partners: DPW	1				Useful Life:	Between eighteen	(18) and twenty-f	five (25) year:	s
		<u>P</u>	<u>Parameters</u>					Resp	onse
1. Are there any costs to	bid, design, construct, purchase, in	stall, implement, or oth	erwise complete	e the project which	n are NOT includ	ed is this request?		No	
2. Are there recommend	lations or costs identified by other o	departments which are I	NOT factored int	to the request?				No	
3. Does this project requ	ire any permitting by any Town or S	State agency?						No	
4. If this request is for Te	echnology, has the Department com	nmunicated with ITC, an	d does ITC supp	ort the request?				No	
5. If this request is for Bu	uilding Improvements, has the Depa	rtment communicated	with the Building	g Maintenance (BN	Л) division, and	does BM support the	equest?	No	
6. If funded, will addition	nal permanent staff be required?					Total New FTE's:		No	
7. If funded, will the ope	rating budget need to be increased	to cover operating expe	enses?					No	
8. If funded, will this pro	ject lower the requesting Departme	ent's operating costs?						No	
9. If funded, will this pro	ject require ongoing assistance fror	n vendors at an additior	nal expense to th	ne Town which is N	IOT already budg	geted?		No	
	funded, will current Town revenue							No	
and the second s								No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								Yes	
13. Is this a request in re	sponse to a Court, Federal, or State	order?						No	
	sponse to a documented public hea							No	
· · · · · · · · · · · · · · · · · · ·	nprove or make repairs to extend th							No	
	urchase apparatus/equipment that				its use?			Yes	
	epair or otherwise improve public p			structure?				Yes	
18. Will any other depart	tment be required to provide assist	ance in order to comple	ete the project?					Yes	
19. If funded, will this pr	oject increase the operating expens							No	
Project Cost: \$135				n-House Estimate					
	igible impact on the annual operati								
Project Budget El	, ,	2020	2021	2022	2023	2024	2025	20	26
Planning/Feasibility	\$0								
Design/Engineering	\$30,000			\$30,000					
Land/ROW Acquisition	\$0								
Site Preparation	\$0								
Construction	\$105,000			\$105,000					
Construction Manageme									
Equipment	\$0								
Furniture, Fixtures, and E	• •								
Technology Hardware/So	·								
Other Expenses	\$0								
TOTAL	\$135,000	\$0	\$0	\$135,000		\$0 \$0	, ,	\$0	\$
\$0									FY20

		Capital Project Request		
Project Title:	Outdoor Basketball Courts		Fiscal Year:	2022

Project Description and Considerations

The Town has outdoor basketball courts located at parks, including Mills Field, Greene's Field, RIverside Park, Perry Park; and half basketball courts at Cricket Field and Walker-Gordon Field.

Full or half courts are also located at Broadmeadow, Eliot, Hillside, Mitchell, Newman and High Rock, with a new court anticipated at the Williams School.

The Mills Field courts are ready for renovation, new backboards, and striping. The Perry Park courts can be painted, but cannot be rebuilt at the same location due to the former school's foundation. Riverside and Cricket would have minor repairs.

The Park and Recreation Commission is viewing the locations of basketball courts, to determine if a new set is needed in a new location. The design costs are to assist with the scope of work needed for repairs, or creation of a new court at a location where one doesn't currently exist.

DPW will provide guidance on the project scope, likely Parks & Forestry, Highway and Engineering.

As this is an outdoor recreation project, it is eligible for CPA funding.

The Park and Recreation Commission requested moving this project up a year from FY'23 to FY'22. It has been increased by 5%.

				Capital Pro	ject Request					
Project Title:	Sewer Main Rep	olacement				_		Fiscal Year:		2021
Purpose:	Design/Engineeri	ng	Classification:	Infrastructure		Status:	Amended Request	from the Prior CII	•	
Department:	Public Works - Sev	ver				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-	five (25) years		
				<u>Parameters</u>					<u>R</u>	<u>lesponse</u>
1. Are there any co	sts to bid, design, o	onstruct, purchase, ir	istall, implement	t, or otherwise comple	ete the project which	h are NOT included	is this request?		No	
2. Are there recom	mendations or cost	ts identified by other	departments wh	ich are NOT factored	into the request?				No	
3. Does this projec	t require any permi	tting by any Town or	State agency?						Yes	
4. If this request is	for Technology, ha	s the Department con	nmunicated with	ITC, and does ITC sup	port the request?				No	
5. If this request is	for Building Improv	ements, has the Depa	rtment commu	nicated with the Build	ing Maintenance (BN	division, and do	es BM support the re	quest?	No	
6. If funded, will ac	lditional permanen	t staff be required?					Total New FTE's:	0	No	
7. If funded, will th	e operating budget	need to be increased	to cover operat	ing expenses?					No	
8. If funded, will th	is project lower the	requesting Departme	ent's operating c	osts?					No	
9. If funded, will th	is project require o	ngoing assistance froi	n vendors at an	additional expense to	the Town which is N	NOT already budget	ted?		No	
10. If the project is	NOT funded, will c	urrent Town revenue	be reduced?						No	
11. Is specialized to	aining or annual lic	ensing required that t	he Town will ne	ed to pay in order to ι	use the asset?				No	
12. Is this a project	for which an Initia	l Eligibility Project App	olication can be f	filed with the Commu	nity Preservation Co	mmittee (CPC)?			No	
13. Is this a reques	t in response to a C	ourt, Federal, or State	order?						No	
		ocumented public he							No	
15. Is this a reques	t to improve or ma	ke repairs to extend tl	ne useful life of a	a building?					No	
16. Is this a reques	t to purchase appar	ratus/equipment that	is intended to be	e permanently installe	ed at the location of	its use?			No	
17. Is this a reques	t to repair or other	wise improve public p	roperty which is	NOT a building or info	rastructure?				No	
18. Will any other	department be requ	uired to provide assist	ance in order to	complete the project	?				No	
19. If funded, will t	his project increase	the operating expens	se for any other	department?					No	
Project Cost:	\$10,950,000	How was the Project			Industry Reference	?S				
Budget Impact:		on the annual operati	ng expenses less	than \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit		\$0								
Design/Engineering		\$1,950,000		\$1,950,000)					
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$9,000,000				\$9,000,00	0			
Construction Mana	igement	\$0								
Equipment		\$0								
Furniture, Fixtures		\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$10,950,000	Ş	\$0 \$1,950,000	\$0	\$9,000,000	0 \$0	\$	0	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Sewer Main Replacement		Fiscal Year:	2021
		Project Description and Considerations		•

This article is to address the Greendale Avenue/Route 128 sewer interceptor from Cheney Street to Great Plain Avenue.

Project Summary

- The existing sewer line is deteriorating and in need of rehabilitation/replacement in order to remain functional.
- The plan is to replace or reline the 12,000 feet (2.25 miles) of 18 inch reinforced concrete gravity sewer main running through Town property along Greendale Avenue near Cheney Street towards Route 128, along the Route 128 right of way, to Great Plain Avenue. This work will be on an interceptor sewer. An interceptor sewer is a trunk sewer that collects and conveys waste water from numerous sewer lines. In FY23, the Town plans to replace the sewer under Route 128 at Great Plain Avenue using horizontal directional drilling in order to avoid major disruptions to the roadway traffic.

Changes from Prior Year Submission

• The Town received funding for a feasibility study in FY19 but has not yet engaged an engineering firm. Funding for design will not be requested until the feasibility study is underway.

Clarification of Questions

3. Massachusetts Department of Transportation (MassDOT) permitting may be required for repair work.

				Capital P	roject Request					
Project Title:	Sewer Pump Sta	tion Improvement	s/Replacement					Fiscal Year:	2	2020
Purpose:	Construction		Classification:	Infrastructure		Status:	Amended Request	from the Prior CIF	,	
Department:	Public Works - Sew	ver				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-	-five (25) years		
				<u>Parameters</u>					Res	<u>sponse</u>
1. Are there any co	osts to bid, design, c	onstruct, purchase, in	stall, implement,	or otherwise com	plete the project w	hich are NOT includ	ed is this request?		No	
2. Are there recom	mendations or cost	s identified by other o	departments whic	th are NOT factore	d into the request?				No	
		tting by any Town or S							Yes	
4. If this request is	for Technology, has	the Department com	nmunicated with I	TC, and does ITC s	support the request	?			No	
5. If this request is	for Building Improv	ements, has the Depa	rtment communi	cated with the Bu	ilding Maintenance	(BM) division, and	does BM support the re	equest?	No	
6. If funded, will ac	dditional permanent	staff be required?					Total New FTE's:	0	No	
7. If funded, will th	e operating budget	need to be increased	to cover operatir	ng expenses?					No	
8. If funded, will th	is project lower the	requesting Departme	ent's operating co	sts?					No	
9. If funded, will th	is project require o	ngoing assistance fror	n vendors at an a	dditional expense	to the Town which	is NOT already bud	geted?		No	
10. If the project is	NOT funded, will co	urrent Town revenue	be reduced?						No	
11. Is specialized to	raining or annual lice	ensing required that t	he Town will need	d to pay in order t	o use the asset?				No	
12. Is this a project	t for which an Initial	Eligibility Project App	lication can be fil	ed with the Comn	nunity Preservation	Committee (CPC)?			No	
13. Is this a reques	t in response to a Co	ourt, Federal, or State	order?						No	
14. Is this a reques	t in response to a do	ocumented public hea	alth or safety cond	dition?					No	
15. Is this a reques	t to improve or mak	ce repairs to extend th	ne useful life of a	building?					No	
16. Is this a reques	t to purchase appar	atus/equipment that	is intended to be	permanently insta	lled at the location	of its use?			No	
17. Is this a reques	t to repair or otherv	vise improve public p	roperty which is N	NOT a building or i	nfrastructure?				No	
18. Will any other	department be requ	iired to provide assist	ance in order to c	complete the proje	ect?				No	
19. If funded, will t		the operating expens	se for any other d	epartment?					No	
Project Cost:	\$4,345,500	How was the Projec			In-House Estima	ate				
Budget Impact:		on the annual operati	ng expenses less t	:han \$5,000						
•	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2	2026
Planning/Feasibilit	у	\$0								
Design/Engineerin	-	\$440,000	\$95,00	0	\$345,0	000				
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$3,905,500	\$535,00	0		\$3,370,	500			
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures	, and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$4,345,500	\$630,000	0	\$0 \$345,0	00 \$3,370,5	00 \$0	\$(0	\$0
\$0										FY2020

		Capital Project Request			
Project Title:	Sewer Pump Station Improvements/Replacement		Fis	scal Year:	2020
		Project Description and Considerations			J

Project Summary

• The Town maintains 9 sewer pump stations at elevations below the gravity system. Without these stations, sewage would not enter the Town's sewerage system at these locations. As part of the Wastewater System Master Plan, several wastewater pumping stations were evaluated to assess physical condition, capacity, and the current as well as future flow projections.

Lake Drive

- The pump station at this location is beyond its useful life and requires constant maintenance. The pumps are failing more frequently due to electrical or mechanical issues and require more personnel time and emergency funds to keep the station running.
- The plan is to replace the existing canister pump station with a new canister pump station.

Cooks Bridge

- The pump station at this location is beyond its useful life and requires constant maintenance. The pumps are failing more frequently due to electrical or mechanical issues and require more personnel time and emergency funds to keep the station running. The capacity of the pump must be upgraded to handle the volume of sewage at this location. The controls on the existing pump station are located outside of the building.
- The plan is to replace the existing canister pump station with a new canister pump station. The controls on the replacement pump station will be relocated to inside the building.

Funding Schedule

	FY	20	FY22	FY23
Project	D&E	Const.	D&E	Const.
Lake Drive	\$95,000	\$535,000		
Cooks Bridge			\$345,000	\$3,370,500

Future Projects

Warren Street

Clarification of Questions

3. Conservation Commission permitting may be required for site work.

				Capital Pro	ject Request					
Project Title:	Sewer System In	flow & Infiltration F	Removal					Fiscal Year:		2020
Purpose:	Construction	С	lassification:	Infrastructure		Status:	Amended Request	from the Prior CIP		
Department:	Public Works - Sew	ver				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-	five (25) years		
				<u>Parameters</u>					<u>R</u>	<u>esponse</u>
1. Are there any co	sts to bid, design, c	onstruct, purchase, ins	tall, implement	, or otherwise compl	ete the project whicl	h are NOT included	is this request?		No	
2. Are there recom	mendations or cost	s identified by other de	epartments whi	ch are NOT factored	into the request?				No	
3. Does this project	require any permit	ting by any Town or St	ate agency?						No	
4. If this request is	for Technology, has	the Department com	nunicated with	ITC, and does ITC sup	pport the request?				No	
5. If this request is	for Building Improv	ements, has the Depar	tment commun	nicated with the Build	ing Maintenance (BN	M) division, and do	es BM support the re	quest?	No	
6. If funded, will ad	ditional permanent	staff be required?					Total New FTE's:	0	No	
7. If funded, will the	e operating budget	need to be increased t	o cover operati	ng expenses?					No	
8. If funded, will thi	s project lower the	requesting Departmen	nt's operating co	osts?					No	
9. If funded, will thi	s project require or	ngoing assistance from	vendors at an a	additional expense to	the Town which is N	NOT already budget	:ed?		No	
10. If the project is	NOT funded, will cu	urrent Town revenue b	e reduced?						No	
11. Is specialized tr	aining or annual lice	ensing required that th	e Town will nee	ed to pay in order to	use the asset?				No	
12. Is this a project	for which an Initial	Eligibility Project Appl	ication can be f	iled with the Commu	nity Preservation Co	mmittee (CPC)?			No	
13. Is this a request	in response to a Co	ourt, Federal, or State	order?						No	
14. Is this a request	in response to a do	ocumented public heal	th or safety con	ndition?					No	
15. Is this a request	to improve or mak	e repairs to extend the	e useful life of a	building?					No	
16. Is this a request	to purchase appar	atus/equipment that is	intended to be	permanently installe	ed at the location of	its use?			No	
17. Is this a request	to repair or otherv	vise improve public pro	perty which is	NOT a building or inf	rastructure?				No	
18. Will any other of	lepartment be requ	ired to provide assista	nce in order to	complete the project	?				No	
19. If funded, will t	nis project increase	the operating expense	for any other of	department?					No	
	\$1,600,000	How was the Project			Industry Reference	es				
Budget Impact:	Negligible impact of	on the annual operatin	g expenses less	than \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility	•	\$0								
Design/Engineering		\$0								
Land/ROW Acquisit	ion	\$0								
Site Preparation		\$0								
Construction		\$1,600,000	\$1,600,00	00						
Construction Mana	gement	\$0								
Equipment		\$0								
Furniture, Fixtures,	and Equipment	\$0								
Technology Hardwa	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$1,600,000	\$1,600,00	0 \$0	\$0	\$(\$0	\$0)	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Sewer System Inflow & Infiltration Removal		 Fiscal Year:	2020
		Project Description and Considerations		•

In 2016, the Town completed a study that Inflow and Infiltration (I/I) removal in areas around Town over the next ten years. The Town has been undertaking I/I projects using funding from private developments. In future years, funding from private developments will be appropriated at Town Meeting.

Project Summary

- The Town of Needham is under Administrative Orders from the Department of Environmental Protection (DEP) to identify and remove Infiltration and Inflow (I/I) in existing sewer systems. Failure to address I/I will increase the percentage of costs to the Town. If the Town decreases I/I in comparison to participating communities, its percentage of costs will remain level or decrease.
- The Town has implemented an inflow/infiltration removal program and will address inflow separately from infiltration.

Infiltration

- Infiltration is defined as groundwater or storm water runoff that enters the system through deteriorated pipe or manhole structures that need to be repaired. The pipes are aging, causing infiltration. The Town pays to treat and dispose of sewage.
- The Town will develop a design to remove the remaining identified infiltration. Once a design is determined, the Town will remove infiltration as identified in the 2016 BETA report. Various methods used to remove identified infiltration include: replacing sewer manholes, lining sewer mains, replacing sewer mains and services, and testing and sealing joints.

Future Projects

Inflow

• Inflow is defined as clean, non-septic water that is introduced into the system. This water is ground water or rain water, typically being removed by residential sump pumps draining basements directly into the Town's sewerage system.

				Capital Pro	ject Request					
Project Title:	Drain System II	mprovements - Wate	er Quality (EPA)					Fiscal Year:		2020
Purpose:	Design/Engineer	ing	Classification:	Infrastructure		Status:	Amended Reques	t from the Prior Cl	P	
Department:	Public Works - Dr	rains				Supports:	Utilities			
Partners:						Useful Life:	More than twenty	-five (25) years		
				<u>Parameters</u>						Response
1. Are there any co	sts to bid, design,	construct, purchase, in	stall, implement,	or otherwise comple	te the project which	are NOT included	d is this request?		No	
2. Are there recom	mendations or co	sts identified by other o	departments whicl	h are NOT factored i	nto the request?				No	
		nitting by any Town or S							Yes	
4. If this request is	for Technology, h	as the Department com	municated with I	TC, and does ITC sup	port the request?				No	
5. If this request is	for Building Impro	vements, has the Depa	rtment communic	cated with the Buildi	ng Maintenance (BM	1) division, and do	oes BM support the r	equest?	No	
6. If funded, will a	dditional permane	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will th	e operating budge	et need to be increased	to cover operatin	g expenses?					No	
8. If funded, will th	is project lower th	ne requesting Departme	ent's operating cos	sts?					No	
		ongoing assistance fror		dditional expense to	the Town which is N	OT already budge	ted?		No	
10. If the project is	NOT funded, will	current Town revenue	be reduced?						No	
		censing required that t							No	
12. Is this a project	t for which an Initia	al Eligibility Project App	lication can be file	ed with the Commun	nity Preservation Con	nmittee (CPC)?			Yes	
	<u>'</u>	Court, Federal, or State							No	
14. Is this a reques	t in response to a	documented public hea	alth or safety cond	lition?					No	
· ·	•	ake repairs to extend th							No	
		aratus/equipment that	•			ts use?			No	
		rwise improve public p	<u> </u>						No	
		quired to provide assist			?				No	
		se the operating expens		•				_	No	
Project Cost:	\$2,278,000	How was the Project			Hired Consultant					
Budget Impact:		on the annual operati								
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit		\$0	4							
Design/Engineerin	-	\$278,000	\$25,000) \$253,000						
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0			40.000.000					
Construction		\$2,000,000			\$2,000,000					
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures		\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0		4	4				١_	•
TOTAL		\$2,278,000	\$25,000	\$253,000	\$2,000,000	<u> </u>	0 \$0)	0	\$0 EV2020

		Capital Project Request		
Project Title:	Drain System Improvements - Water Quality (EPA)		Fiscal Year:	2020
		Project Description and Considerations		•

The Town entered into a Memorandum of Understanding (MOU) with the Environmental Protection Agency (EPA) to commence a Town-wide investigation of stormwater discharge to address the pollutants through stormwater into the Charles River Basin and other water bodies. Incorporated into this plan are improvements to the Stormwater Drainage System to upgrade the quality of the water discharged into the Charles River in Town. This request is to support action items identified in the MOU. In 2003, the EPA National Pollutant Discharge Elimination System (NPDES) Stormwater Drainage Permit took effect. It incorporated several requirements identified in the existing Town's MOU. In April 2016, the second permit issued by the EPA was submitted and went into effect July 1, 2018. This article addresses some of the requirements for NPDES.

Project Summary

60 Wildwood Drive Pond Analysis

- The pond at 60 Wildwood Drive is suffering from eutrophication. Eutrophication is when the pond has heavy plant decay and sediment accumulation, along with other issues, that are damaging to the pond. This can result in loss of aquatic life, decreased water transparency, and water treatment problems. Eutrophication is considered a pollution problem and this analysis will help to identify the various issues associated with it.
- The Town will conduct a feasibility study to determine the best way to address the problem.

The Town Reservoir Sediment Removal

- The sediment at the bottom of the reservoir is contaminated and must be removed. This is a category 5 impaired water body under NDPES. Category 5 is worst rating a water body can receive from the EPA.
- The Town will engage a designer to determine the best way to remove the sediment.

Funding Schedule

	FY20	FY21	FY22
Project	D&E	D&E	Const.
60 Wildwood Drive Pond Analysis	\$25,000		
Town Reservoir Sediment Removal		\$253,000	\$2,000,000

Changes from Prior Year Submission

- The request for 60 Wildwood Drive Pond Analysis was not funded in FY19 and is being resubmitted in FY20.
- The increase in FY21 and FY22 is due to an updated quote.

Capital Project Request		
Project Title: Drain System Improvements - Water Quality (EPA)	Fiscal Year:	2020
Supplemental Information		
Future Projects Action Items from Watershed Management Plan funded in FY15		
<u>Clarification of Questions</u> 3. Conservation Commission, State, and Federal permitting may be required for dredging.		
12. Yes, this a project for which an Initial Eligibility Project Application may be filed with the Community Preservation C	Committee.	

				Capital Projec	t Request					
Project Title:	Charles River Water T	reatment Plant	HVAC Upgrades	S				Fisca	al Year:	2022
urpose:	Design/Engineering	Cla	ssification:	Building	S	status:	Information	onal Only Deta	ils Incomplete	1
Department:	Public Works - Water	_	-		S	Supports:	Other (see	below for info	ormation)	
artners:	Public Works - Building N	1aintenance			ι	Jseful Life:	Between 6	eighteen (18) a	nd twenty-five	(25) years
				<u>Parameters</u>						Response
. Are there any c	osts to bid, design, constru	ct, purchase, insta	all, implement, or	otherwise complete	the project which a	are NOT includ	ed is this reque	est?		No
. Are there recor	nmendations or costs ident	ified by other dep	artments which a	are NOT factored into	the request?					No
	ct require any permitting b									Yes
I. If this request is	s for Technology, has the D	epartment comm	unicated with ITC	, and does ITC suppor	rt the request?					Yes
. If this request is	for Building Improvement	s, has the Departr	ment communicat	ted with the Building	Maintenance (BM)	division, and	does BM supp	ort the request	t?	Yes
. If funded, will a	dditional permanent staff l	oe required?					Total New	FTE's: 0		No
	he operating budget need t									No
3. If funded, will t	his project lower the reque	sting Department	's operating costs	?						No
). If funded, will t	his project require ongoing	assistance from v	endors at an add	itional expense to the	Town which is NC	T already bud	geted?			No
.0. If the project i	s NOT funded, will current	Town revenue be	reduced?							No
1. Is specialized	raining or annual licensing	required that the	Town will need to	pay in order to use	the asset?					No
2. Is this a projec	t for which an Initial Eligibi	lity Project Applic	ation can be filed	with the Community	Preservation Com	mittee (CPC)?				No
.3. Is this a reque	st in response to a Court, F	ederal, or State or	der?							No
	st in response to a docume									No
.5. Is this a reque	st to improve or make repa	irs to extend the	useful life of a bui	lding?						Yes
.6. Is this a reque	st to purchase apparatus/e	quipment that is i	ntended to be pe	rmanently installed a	t the location of its	use?				Yes
.7. Is this a reque	st to repair or otherwise im	prove public prop	erty which is NO	T a building or infrast	ructure?					No
.8. Will any other	department be required to	provide assistan	ce in order to con	nplete the project?						No
.9. If funded, will	this project increase the or	perating expense f	or any other depart	artment?						No
Project Cost:	How	was the Project Co	ost Determined:							
Budget Impact:										
•		ject Budget	2020	2021	2022	2023	202	24	2025	2026
lanning/Feasibili		\$0								
Design/Engineerir	~	\$0								
and/ROW Acquis	sition	\$0								
ite Preparation		\$0								
Construction		\$0								
onstruction Man	agement	\$0								
quipment		\$0								
•	s, and Equipment	\$0								
echnology Hard	vare/Software	\$0								
Other Expenses FOTAL		\$0								
		\$0	\$0	\$0	\$0		\$0	\$0	\$0	

	Capital Pr	oject Request	
Project Title:	Charles River Water Treatment Plant HVAC Upgrades	Fiscal Year:	2022

Project Description and Considerations

Project Summary

- The Charles River Water Treatment Plant is almost 20 years old. The heating, ventilation, and air conditioning (HVAC) controls are at the end of their useful life. Some of the controls are no longer supported by the manufacturer, making repairs and maintenance difficult. In addition to the HVAC controls, the boilers are also approaching the end of their useful lives. Many of the parts needed to maintain the boilers are no longer manufactured. The existing boilers are inefficient. The setup of the boiler room makes it incredibly difficult to reach some of the equipment that is in need of repair. The domestic hot water heater is also reaching the end of its useful life and is rusting due to cycling.
- The boiler room and entire HVAC system will be reviewed by an outside engineer to determine the best plan to upgrade the outdated equipment and better utilize the existing space. The equipment at the Charles River Water Treatment Plant will be analyzed to determine what the best equipment given space constraints. Any major construction changes will be determined with this plan.

Clarification of Questions

Supports Other: Supports building infrastructure.

- 3. This request may require building permits.
- 4. This request may require support from ITC.
- 5. This request will require support from Building Maintenance.
- 15. This request will improve the HVAC in the building.
- 16. The updates will be permanently installed.

				Capital Pro	ject Request					
Project Title:	Fire Flow Improv	ements						Fiscal Year:		2021
Purpose:	Design/Engineerin	g	Classification:	Infrastructure		Status:	Informational Only	y Details Incomple	te	
Department:	Public Works - Wat	er				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-	-five (25) years		
				<u>Parameters</u>						Response
1. Are there any co	sts to bid, design, co	onstruct, purchase, ir	nstall, implemen	t, or otherwise compl	ete the project which	are NOT included	is this request?		No	
2. Are there recom	mendations or costs	s identified by other	departments wh	nich are NOT factored	into the request?				No	
3. Does this projec	t require any permit	ting by any Town or	State agency?						No	
4. If this request is	for Technology, has	the Department con	nmunicated with	n ITC, and does ITC sup	oport the request?				No	
5. If this request is	for Building Improve	ements, has the Depa	artment commu	nicated with the Build	ling Maintenance (BM	1) division, and do	es BM support the re	equest?	No	
6. If funded, will ac	lditional permanent	staff be required?					Total New FTE's:	0	No	
7. If funded, will th	e operating budget	need to be increased	to cover operat	ting expenses?					No	
8. If funded, will th	is project lower the	requesting Departme	ent's operating o	costs?					No	
9. If funded, will th	is project require or	ngoing assistance from	m vendors at an	additional expense to	the Town which is N	OT already budge	ted?		No	
10. If the project is	NOT funded, will cu	ırrent Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?										
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?										
13. Is this a request in response to a Court, Federal, or State order?										
14. Is this a reques	t in response to a do	ocumented public hea	alth or safety co	ndition?					Yes	
15. Is this a reques	t to improve or mak	e repairs to extend tl	ne useful life of a	a building?					No	
16. Is this a reques	t to purchase appara	atus/equipment that	is intended to b	e permanently installe	ed at the location of it	ts use?			No	
17. Is this a reques	t to repair or otherw	vise improve public p	roperty which is	NOT a building or inf	rastructure?				No	
18. Will any other	department be requ	ired to provide assist	ance in order to	complete the project	:?				No	
19. If funded, will t	his project increase	the operating expens	se for any other	department?					No	
Project Cost:	\$2,940,000	How was the Project	t Cost Determin	ed:	In-House Estimate					
Budget Impact:	Negligible impact o	n the annual operati	ng expenses less	s than \$5,000						
Project Bud	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit	У	\$0								
Design/Engineering	5	\$540,000		\$540,000	0					
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$2,400,000			\$2,400,000					
Construction Mana	gement	\$0								
Equipment		\$0								
Furniture, Fixtures	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$2,940,000		\$0 \$540,000	\$2,400,000	\$	0 \$0	\$	0	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Fire Flow Improvements		Fiscal Year:	2021

Project Description and Considerations

In 2016, the Town received funding for a feasibility study which explored the issue of water pressure in the Tower Hill and Birds Hill areas. The preliminary draft of the feasibility study was completed in 2017. A final meeting is needed to select the appropriate approach. This article addresses these issues.

Project Summary

- An outside consultant recommended that the Town improve water pressure in the Tower Hill and Birds Hill areas.
- The goal is to create a high pressure zone in both areas, potentially supplied by water booster stations. The Town is currently working on solidifying a plan to move forward.

Changes from Prior Year Submission

• The design/engineering request has been pushed to FY21 and the construction request has been pushed to FY22 to allow for a detailed analysis of the final report from the feasibility study. The estimates provided are based upon a water system report and may be altered, depending upon which option the Town decides to pursue.

Clarification of Questions

14. The water pressure in these areas has the potential to be a public health or safety concern, specifically for the Fire Department.

				Capital Pr	oject Request					
Project Title:	Water Distribut	ion Study					F	Fiscal Year:	2024	
Purpose:	Design/Engineeri	ng	Classification:	Infrastructure		Status:	Informational Only I	Details Incomplet	е	
Department:	Public Works - Wa	ater				Supports:	Utilities			
Partners:						Useful Life:	More than eighteen	(18) years		
				<u>Parameters</u>					Response	<u>e</u>
1. Are there any co	sts to bid, design, o	construct, purchase, in	stall, implement	, or otherwise comp	lete the project which	h are NOT included	is this request?		No	
2. Are there recom	mendations or cos	ts identified by other o	lepartments whi	ch are NOT factored	l into the request?				No	
3. Does this project	t require any permi	itting by any Town or S	state agency?						No	
4. If this request is	for Technology, ha	s the Department com	municated with	ITC, and does ITC so	ipport the request?				No	
5. If this request is	for Building Improv	vements, has the Depa	rtment commur	icated with the Buil	ding Maintenance (BN	M) division, and do	es BM support the req	juest?	No	
6. If funded, will ac	lditional permanen	t staff be required?					Total New FTE's:)	No	
7. If funded, will th	e operating budget	need to be increased	to cover operati	ng expenses?					No	
8. If funded, will th	is project lower the	e requesting Departme	nt's operating c	osts?					No	
9. If funded, will th	is project require o	ngoing assistance fror	n vendors at an a	additional expense t	o the Town which is N	NOT already budget	ted?		No	
10. If the project is	NOT funded, will o	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?										
13. Is this a request in response to a Court, Federal, or State order?									No	
14. Is this a reques	t in response to a d	locumented public hea	Ith or safety cor	ndition?					No	
15. Is this a reques	t to improve or ma	ke repairs to extend th	e useful life of a	building?					No	
16. Is this a reques	t to purchase appa	ratus/equipment that	is intended to be	permanently instal	led at the location of	its use?			No	
17. Is this a reques	t to repair or other	wise improve public p	operty which is	NOT a building or in	frastructure?				No	
18. Will any other	department be req	uired to provide assist	ance in order to	complete the projec	t?				No	
19. If funded, will t	his project increase	e the operating expens	e for any other o	department?					No	
Project Cost:	\$230,000	How was the Project	Cost Determine	ed:	In-House Estimate					
Budget Impact:	Negligible impact	on the annual operation	ng expenses less	than \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026	
Planning/Feasibility	У	\$0								
Design/Engineering		\$230,000					\$230,000			
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$0								
Construction Mana	igement	\$0								
Equipment		\$0								
Furniture, Fixtures,	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$230,000	\$	io \$	0 \$0	\$(\$230,000	\$0		\$0
\$0			<u> </u>		<u> </u>	<u> </u>		<u> </u>		'2020

	Capital Project Request								
Project Title:	Water Distribution Study		Fiscal Year:	2024					
	-	Project Description and Considerations		<u>'</u>					

This article is for a study to provide an analysis of the Town's existing water infrastructure.

Project Summary

- The current master plan was conducted in 1998 and the Town is coming to its completion of the recommendations. Since the last time the Town studied its water infrastructure, Needham Crossing, formerly the 128 Business Park, has significantly changed with more dense development and different industries and uses. This new water distribution study is to evaluate the existing water distribution system to identify any deficiencies that exist and determine what repairs should be made to ensure that the system can provide the required flow and pressure.
- The new 20 year master plan will include the following:
 - Conduct a thorough asset inventory of the system and conduct a hydraulic analysis
 - Prioritize the rehabilitation and replacement of the asset information related to condition, performance, replacement values, failure modes, probability of failure, and criticality
 - Develop a new 20 year forecast for projected growth
 - Develop an annual estimate of needed reserves and an annual budget
 - Implement the asset management plan
 - Review and revise the current asset management plan

Changes from Prior Year Submission

• This request is being pushed out a year to FY24 and remaining informational to allow the Town to evaluate future conditions. The increase in cost is due to inflation.

				Capital Proj	ect Request					
Project Title:	Water Distribut	ion System Improve	ements				I	Fiscal Year:	20	20
Purpose:	Construction		Classification:	Infrastructure		Status:	Amended Request f	rom the Prior CIP		
Department:	Public Works - Wa	ater				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-fi	ive (25) years		
				<u>Parameters</u>					Resp	onse
1. Are there any co	osts to bid, design,	construct, purchase, in	stall, implement, o	r otherwise complet	te the project which	are NOT included i	is this request?		No	
2. Are there recom	nmendations or cos	ts identified by other o	departments which	are NOT factored in	nto the request?				No	
3. Does this project	t require any perm	itting by any Town or S	State agency?						Yes	
4. If this request is	for Technology, ha	is the Department com	municated with ITO	C, and does ITC supp	oort the request?				No	
5. If this request is	for Building Impro	vements, has the Depa	rtment communica	ited with the Buildir	ng Maintenance (BM) division, and doe	es BM support the req	quest?	No	
6. If funded, will a	dditional permaner	nt staff be required?					Total New FTE's:	0	No	
7. If funded, will th	ne operating budge	t need to be increased	to cover operating	expenses?					No	
8. If funded, will th	nis project lower th	e requesting Departme	ent's operating cost	s?					No	
9. If funded, will th	nis project require o	ongoing assistance fror	n vendors at an add	ditional expense to t	the Town which is N (OT already budgete	ed?		No	
10. If the project is	NOT funded, will o	current Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
13. Is this a reques	t in response to a 0	Court, Federal, or State	order?						No	
14. Is this a reques	t in response to a d	documented public hea	olth or safety condit	ion?					No	
15. Is this a reques	t to improve or ma	ke repairs to extend th	ne useful life of a bu	ıilding?					No	
16. Is this a reques	t to purchase appa	ratus/equipment that	is intended to be pe	ermanently installed	d at the location of it	s use?			No	
17. Is this a reques	t to repair or other	wise improve public p	roperty which is NC)T a building or infra	astructure?				No	
18. Will any other	department be req	uired to provide assist	ance in order to co	mplete the project?					No	
19. If funded, will t		e the operating expens	se for any other dep	partment?					No	
Project Cost:	\$6,148,500	How was the Projec			In-House Estimate					
Budget Impact:		on the annual operati	ng expenses less tha	an \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025	20	26
Planning/Feasibilit	У	\$0								
Design/Engineerin	-	\$196,500	\$49,500	\$42,000		\$105,000	1			
Land/ROW Acquis	ition	\$0								
Site Preparation		\$0								
Construction		\$5,952,000	\$4,742,000	\$330,000	\$405,000		\$475,000			
Construction Mana	agement	\$0								
Equipment		\$0								
Furniture, Fixtures	, and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$6,148,500	\$4,791,500	\$372,000	\$405,000	\$105,000	\$475,000	\$0)	\$0
\$0										FY2020

	Capital Project Request								
Project Title:	Water Distribution System Improvements		Fiscal Year:	2020					
•		Project Description and Considerations		-					

Project Summaries

• Portions of the Town's water infrastructure are over 75 years old and are approaching the end of their useful life. In order to ensure a continual supply of water to the public, the Department of Public Works must partake in a rehabilitation program including maintenance, repair, and replacement of aging pipes. Replacement of water pipes is prioritized, taking into consideration the condition of the pipe, water break history, and adequacy of water flow to fire hydrants.

Bennington Street/High Street to Concord Street

- The 8" water main constructed in 1926 is at the end of its useful life.
- Dig and replace 650 linear feet of 8" water main and services. The process includes: installing temporary bypass piping, diging and removing existing pipe, installing replacement pipe, installing temporary trench patch, and overlaying asphalt gutter to gutter, including sewerage and drainage castings and roadway markings.

Country Way

- The water main constructed between 1961 and 1965 has a history of breakage that has accelerated it in the replacement program.
- Dig and replace 1,200 linear feet of 8" water main . The process includes: installing temporary bypass piping, diging and removing existing pipe, installing replacement pipe, installing temporary trench patch, and overlaying asphalt gutter to gutter, including sewerage and drainage castings and roadway markings.

Alder Brook Lane

- The water services are lead lined. There is a 2" water main that is aging and connecting new water services to the aging pipe may compromise the pipe.
- Remove and replace all lead services and replace 340 linear feet of 2" pipe with 6" pipe. This will include the installation of a fire hydrant at the end of Alder Brook Lane, installation of a temporary trench patch, and overlay of asphalt gutter to gutter.

Thorpe Road/Webster Street to Manning Street

- The water main constructed between 1923 and 1953 is coming to the end of its useful life.
- Design and replace 330 linear feet of 8" pipe.

Mills Road/Sachem Road to Davenport Avenue

- The water main constructed in 1896 is coming to the end of its useful life.
- Design and replace 500 linear feet of 8" pipe.

Mayo Avenue/Harris Avenue to Great Plain Avenue

- The water main constructed in 1913 is coming to the end of its useful life.
- Design and replace 1,060 linear feet of 8" pipe.

Capital Project Request						
Project Title:	Water Distribution System Improvements			Fiscal Year:	2020	

Kingsbury Street/Oakland Avenue to Webster Street

- The water main constructed in 1892 and 1965 is coming to the end of its useful life.
- Design and replace 1,500 linear feet of 8" pipe.

Oakland Avenue/May Street to Highland Avenue

- The water main constructed in 1893 is coming to the end of its useful life.
- Design and replace 1,100 linear feet of 8" pipe.

Emerson Place (dead end)

- The water main constructed in between 1946 and 1954 is coming to the end of its useful life and has a history of breakage.
- Replace 130 linear feet of 2" pipe with 6" pipe.

Rosemary

- There is a water main that is currently located under the lake, making leaks difficult to detect and repairs difficult to conduct. The water main needs to be relocated.
- The 8" water main under the lake will be removed and relocated to Rosemary Street.

Clark Circle

- There are currently two dead end water mains at this location. Redesigning and rehabilitating the water main will improve water quality at this location.
- The plan is to design and install 300 linear feet of 8" pipe in order to connect two dead end water mains in a loop.

Failing Lined Transmission Water Mains (locations below)

- The existing water line dates from 1936-1939 and is cast iron with bitumastic or coal tar liner. The lining of these pipes breaks down over time, causing discoloration in the water and concern for the water quality in the areas serviced by this line. The Town began addressing this issue in 2008, when there was approximately 19,000 linear feet of piping in need of replacement. During this first phase, piping was replaced extending from Charles River Street to Pine Street and a section between Oak Street and Chestnut Street to School Street. Additionally, the 14" water main was relined from the Charles River Water Treatment Facility to Grove Street. The second phase of this project began in 2010 with the replacement of the 14" water main line extending from Grove Street to Central Avenue with a new 16" water main. In FY16, the Town replaced the water main in Oak Street from Maple Street to Chestnut Street and in Chestnut Street from Oak Street to School Street. This project is to replace the remainder of existing pipe.
- The Town will replace a total of 5,500 linear feet of 14" water main with a new 16" water main from the intersection of Pine Street to Marked Tree Road to High Rock Street. This project will include replacing the pipe and reconstruction of the road.

_	Capital Project Request						
Project Title:	Water Distribution System Improvements			Fiscal Year:	2020		

Funding Schedule

Project	F	Y20	FY	721	FY22	FY23	FY24
	D&E	Const.	D&E	Const.	Const.	D&E	Const.
Bennington Street/High Street to Concord Street		\$430,000					
Country Way		\$430,000					
Alder Brook Lane		\$82,000					
Thorpe Road/Webster Street to Manning Street; Mills							
Road/Sachem Road to Davenport Avenue; Mayo			\$42,000		\$405,000		
Avenue/Harris Avenue to Great Plain Avenue							
Kingsbury Street/Oakland Avenue to Webster Street;						¢105.000	¢475.000
Oakland Avenue/May Street to Highland Avenue						\$105,000	\$475,000
Rosemary	\$49,500			\$330,000			
Water Main Replacement		\$3,800,000					

Changes from Prior Year Submission

- All of the water system rehabilitation projects have been pushed out a year and costs have been inflated.
- The project at Alder Brook Lane was added into FY20 for \$82,000 because there are lead line services off of an old pipe.
- The project at Rosemary was added in FY20 for \$49,500 because the Town is draining the lake for the last time during the summer of 2019, making it difficult to detect leaks moving forward.

Future Projects

- Fenton Road/West Street to Pershing Road
- Greenough Street/Pine Grove Street to Avery Street
- Pine Grove Street, Hillside Avenue to exiting 8"
- Tower Avenue/Greendale Avenue to Lexington Avenue 800lf of 12"
- Rosemary Pond Water Main Replacement
- Gage Street 8" (320')
- Holland Terrace 6" (260')
- Fairlawn 6" (270')
- Marked Tree from High Rock to Central Ave
- Central Ave from High Rock to Pine Street (5500')
- South Street from Charles River to Chestnut Street (7000')

Clarification of Questions

3. Conservation Commission permitting may be required for site work.

				Capital P	roject Request					
Project Title:	Water Service C	Connections				_		Fiscal Year:		2022
Purpose:	Construction		Classification:	Infrastructure		Status:	Amended Request f	rom the Prior CIP		
Department:	Public Works - Wa	ater				Supports:	Utilities			
Partners:						Useful Life:	More than eighteen	(18) years		
				<u>Parameters</u>						Response .
1. Are there any co	sts to bid, design, o	construct, purchase, ir	istall, implement	t, or otherwise com	plete the project whicl	h are NOT included	is this request?		No	
2. Are there recom	mendations or cos	ts identified by other	departments wh	ich are NOT factore	d into the request?				No	
3. Does this projec	t require any perm	itting by any Town or	State agency?						No	
4. If this request is	for Technology, ha	s the Department con	nmunicated with	ITC, and does ITC s	upport the request?				No	
5. If this request is	for Building Improv	vements, has the Depa	rtment commu	nicated with the Bui	Iding Maintenance (BI	division, and do	es BM support the req	juest?	No	
6. If funded, will ac	lditional permanen	t staff be required?					Total New FTE's:)	No	
7. If funded, will th	e operating budge	t need to be increased	to cover operat	ing expenses?					No	
8. If funded, will th	is project lower the	e requesting Departme	ent's operating c	osts?					No	
9. If funded, will th	is project require c	ngoing assistance from	n vendors at an	additional expense	to the Town which is N	NOT already budget	ed?		No	
10. If the project is	NOT funded, will o	urrent Town revenue	be reduced?						No	
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?									No	
13. Is this a request in response to a Court, Federal, or State order?									No	
14. Is this a reques	t in response to a c	locumented public he	alth or safety co	ndition?					Yes	
15. Is this a reques	t to improve or ma	ke repairs to extend tl	ne useful life of a	a building?					No	
16. Is this a reques	t to purchase appa	ratus/equipment that	is intended to be	e permanently insta	lled at the location of	its use?			No	
17. Is this a reques	t to repair or other	wise improve public p	roperty which is	NOT a building or in	nfrastructure?				No	
18. Will any other	department be req	uired to provide assist	ance in order to	complete the proje	ct?				No	
19. If funded, will t	his project increase	e the operating expens	se for any other	department?					No	
Project Cost:	\$600,000	How was the Project			Current Contract					
Budget Impact:		on the annual operati		than \$5,000						
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibilit		\$0								
Design/Engineering		\$0								
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
Construction		\$600,000			\$200,000	\$200,000	\$200,000			
Construction Mana	gement	\$0								
Equipment		\$0								
Furniture, Fixtures	and Equipment	\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$600,000		50 5	\$0 \$200,000	\$200,000	\$200,000	\$()	\$0
\$0										FY2020

	Capital Project Request							
Project Title:	Water Service Connections			Fiscal Year:	2022			
		Project Description and Considerations	•		-			

Project Summary

• There are old iron pipe water services that may contain lead and need to be removed. System wide, there are approximately 1,000 services that still need to be replaced in the system. Each calendar year has seen the replacement of additional services, as indicated below:

CY07 - 126

CY08 - 170

CY09 - 174

CY10 - 17

CY11 - 145

CY12 - 102

CY13 - 200

CY14 - 152

CY15 - 110

CY16 - 12*

CY17 - 140

CY18 - 99 (as of September 2018)

• Total and partial lead services are replaced at least one year prior to a road reconstruction/paving project. Each year, additional services are removed and replaced.

Changes from Prior Year Submission

• The funding request is being pushed up to FY22 because the replacements have been occurring at a faster rate than anticipated.

Clarification of Questions

14. Old iron pipe water services in the water distribution system that may contain lead is a documented public health or safety condition.

^{*}Decrease in services replaced due to the contracted vendor being released from their contract and the Town rebidding the work.

				Capital Proj	ect Request					
Project Title:	Water Supply D)evelopment						Fiscal Year:		2021
Purpose:	Design/Engineer	ing	Classification:	Infrastructure		Status:	Amended Request	from the Prior Cl	P	
Department:	Public Works - W	ater				Supports:	Utilities			
Partners:						Useful Life:	More than twenty-	five (25) years		
				<u>Parameters</u>					<u> </u>	Response
1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included is this request?									No	
									No	
1 3 1 11 6 1 1									Yes	
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?									No	
5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request?									No	
6. If funded, will additional permanent staff be required?									No	
7. If funded, will the operating budget need to be increased to cover operating expenses?									Yes	
8. If funded, will this project lower the requesting Department's operating costs?									No	
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?								No		
10. If the project is NOT funded, will current Town revenue be reduced?								No		
								No		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?								No		
13. Is this a request in response to a Court, Federal, or State order?									No	
14. Is this a request in response to a documented public health or safety condition?									No	
									No	
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?									Yes	
									No	
									No	
19. If funded, will this project increase the operating expense for any other department?										
	\$1,693,000	How was the Project			Industry Reference	S				
		on the annual operat	<u> </u>							
	get Elements	Project Budget	2020	2021	2022	2023	2024	2025		2026
Planning/Feasibility		\$0								
Design/Engineering		\$433,000		\$433,000						
Land/ROW Acquisi	tion	\$0								
Site Preparation		\$0								
		\$1,260,000				\$1,260,00	0			
Construction Management		\$0								
Equipment		\$0								
Furniture, Fixtures,		\$0								
Technology Hardw	are/Software	\$0								
Other Expenses		\$0								
TOTAL		\$1,693,000	\$	0 \$433,000	\$0	\$1,260,000) \$0	<u> </u>	0	\$0
\$0										FY2020

		Capital Project Request		
Project Title:	Water Supply Development		Fiscal Year:	2021
	-	Project Description and Considerations		•

Project Summary

- The Charles River Well Field has three wells, allowing it to operate at full capacity. Whenever one of the wells is taken offline for routine maintenance and repairs, the Town has to rely on MWRA water to meet its daily demands. With an additional fourth well, the Town would be able to take a well offline and continue to operate at its full capacity, allowing for more independence during maintenance periods.
- This funding request is for both the design/engineering and the construction phases. The design/engineering phase includes DEP and Conservation permitting, exploration and test wells program, and the design of a pitless well with appurtenance. The construction phase is for the installation of a well approximately 100' deep with control, pump, and electrical included. There would be no changes to the Town's MWRA withdrawal permit.

Changes from Prior Year Submission

• This request is being pushed back to FY21 to give the Town time to determine the implications of the permit withdrawal. Mass DEP had a withdrawal permit for the Town's wells, which gave them jurisdiction to mandate a water restriction, even though the Town gets supplemental water from MWRA. The Town chose to give up its withdrawal permit and remove it from the jurisdiction of Mass DEP. The Town needs to confirm that creating a redundant well will not force the Town to again enter into a withdrawal permit and be subject to the Mass DEP jurisdiction. The increase in cost is due to inflation.

Clarification of Questions

- 3. This project requires permitting from DEP and Conservation.
- 7. The operating budget will need to be increased in order to cover increased monitoring and maintenance expenses associated with having an additional well.
- 16. The well equipment is intended to be permanently installed at the location of its use.

			(<mark>Capital Project R</mark>	equest				
Project Title:	Fleet Replacement Pro	ogram					F	iscal Year:	2020
Purpose:	Acquisition	C	lassification: Ec	quipment	S	tatus:	Amended Request fr	om the Prior C	CIP
Department:	Finance	•	•		S	upports:	Other (see below for	information)	
Partners:	Building, Fire, Health and	l Human Services, Police, F	Public Works, and th	e School Departm	ent U	Iseful Life:	Varies between 6 and	d 20 years	
			<u>Par</u>	ameters	_				Response
. Are there any co	osts to bid, design, constru	ct, purchase, install, imple	ment, or otherwise	complete the proj	ect which are NOT ir	ncluded is this requ	iest?		No
. Are there recon	nmendations or costs ident	tified by other department	ts which are NOT fac	ctored into the red	juest?				No
. Does this projec	t require any permitting b	y any Town or State agend	;y?						Yes
. If this request is	for Technology, has the D	epartment communicated	l with ITC, and does	ITC support the re	quest?				Not Applicable
. If this request is	for Building Improvement	s, has the Department cor	mmunicated with the	e Building Mainte	nance (BM) division,	and does BM supp	ort the request?		Not Applicable
. If funded, will a	dditional permanent staff I	be required?					Total New FTE's: 0		No
7. If funded, will the operating budget need to be increased to cover operating expenses?							Yes		
. If funded, will th	is project lower the reque	sting Department's opera	ting costs?						No
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?							No		
0. If the project is	NOT funded, will current	Town revenue be reduced	l?						Not Applicable
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?							Yes		
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?							Not Applicable		
13. Is this a request in response to a Court, Federal, or State order?							No		
14. Is this a request in response to a documented public health or safety condition?							No		
5. Is this a reques	t to improve or make repa	airs to extend the useful lif	e of a building?						No
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?								No	
7. Is this a reques	t to repair or otherwise in	nprove public property wh	ich is NOT a building	g or infrastructure	?				No
8. Will any other	department be required to	o provide assistance in ord	ler to complete the p	project?					Yes
9. If funded, will	this project increase the op	perating expense for any o	ther department?						Yes
roject Cost:	\$10,225,761	How was the Project			In-House Estimate				
udget Impact:	May increase annual ope	rating expenses between	\$5,001 and \$25,000						
	t Budget Elements	Project Budget	2020	2021	2022	2023	2024	2025	2026
lanning/Feasibilit	у	\$0							
esign/Engineerin	g	\$0							
and/ROW Acquis	tion	\$0							
ite Preparation		\$0							
onstruction		\$0							
onstruction Man	agement	\$0							
quipment		\$10,225,761	\$2,106,572	\$2,071,403	\$2,594,627	\$1,127,048	\$2,326,111		
urniture, Fixtures	• •	\$0							
echnology Hardw	rare/Software	\$0							
Other Expenses		\$0							
ΓΟΤΑL		\$10,225,761	\$2,106,572	\$2,071,403	\$2,594,627	\$1,127,048	\$2,326,111		\$0

	Capital Project Request		
Project Title:	Fleet Replacement Program	Fiscal Year:	2020

Project Description and Considerations

The Town's fleet replacement program is funded through both the capital plan and the operating budget. A major equipment expense for the Town is rolling stock. The Town relies upon many types and sizes of vehicles in order to provide services, respond to emergencies, maintain public facilities, and improve the infrastructure in the community. The fleet replacement program consolidates all vehicles and special equipment attachments under one submission, but allocation of resources is looked at on a department by department basis rather than as one global replacement schedule. Needs and purposes for equipment differ significantly, and no department can do its work without the equipment. We classify the fleet program in three categories: core fleet (general purpose vehicles), special purpose/high value vehicles, and snow and ice equipment. The program is intended to centrally present and review the Town's rolling stock operations in order to ensure timely, cost effective, and high quality replacement of vehicles, maintenance, fueling, and short-term transportation. However, the Police Department vehicles are not included in this request. Generally, the Police Department vehicles are funded through the operating budget as many vehicles in the department do not meet the threshold to be considered part of the capital program. The Needham Public Schools fleet replacement program is funded through the capital process, but the School Department does from time to time acquire additional vehicles outside of the capital process and Town Meeting votes. A majority of the Town's fleet maintenance and management is performed by the Fleet Division of the Public Works Department. Other maintenance work is provided off-site by vendors due to factors such as specialized work, volume, or warranty.

Managing and maintaining a fleet of more than 230 vehicles – from passenger vehicles to large heavy duty diesel trucks and tractors – involves some of the Town's most environmentally consequential choices. Considering the number of vehicles purchased and the thousands of gallons of fuel used, the fleet represents one of the Town's opportunities to meet its goal of environmentally responsible and sustainable operations.

The most obvious and substantial environmental impacts of the fleet for the Town are, of course, tailpipe emissions and fuel use. However, an environmentally superior fleet encompasses a number of other factors, only some of which are under the control of fleet operations. For example, the Town's ability to influence vehicle manufacturing is limited, even though the process involves huge amounts of material extraction, use of natural resources and is responsible for significant air and water pollution. The elements that the Town's fleet operations can control or influence to achieve a cleaner and greener fleet include the following:

- Fleet size
- Fuel use, type, and amount
- Fueling procedures preventing pollution from incidental fuel spills
- How vehicles are maintained, e.g. avoiding oil leaks, ensuring proper tire inflation, etc.
- Use of maintenance materials, e.g., alternatives to hydraulic fuels, or recycled anti-freeze
- Use of recycled oil, and, as appropriate, tires
- Use, storage and disposal of hazardous materials used in vehicle maintenance
- Vehicle type, e.g., fuel efficiency, size, and availability of alternatives

The Town's fleet replacement program was established in FY2015. This represents a budget and schedule for the Town's rolling stock fleet of approximately 239 vehicles, trailers, and large specialized attachments and the School Department fleet of vans and buses. General purpose vehicles include pickup trucks, a variety of police vehicles, school buses, sedans, SUV's, and vans (98). They comprise approximately 41 percent of the entire fleet. General purpose vehicles are utilized in every department and are relatively inter-changeable. The replacement of these vehicles can proceed on a regular schedule and should be considered part of the Town's base recurring costs.

Specialized, high value vehicles, and snow and ice equipment comprise of the other 34 percent of the fleet. These vehicles and equipment are just as integral to Town operations as the general purpose vehicles, but serve the unique purposes of specific departments or divisions. Included in this group are the high value vehicles such as ambulances, large dump trucks, fire engines, street sweepers, and others for which appropriations need to be planned.

Continue on to the Next Page

	Capital Project Request		
Project Title:	Fleet Replacement Program	Fiscal Year:	2020

Supplemental Information

The estimated cost of the identified replacements (including the school department) for core fleet, specialize equipment, and snow and ice equipment is \$10,225,761 which is up from the prior CIP five-year submission of \$8,284,433 . The change is due to the addition of fiscal year 2024 and increased cost estimates for some specialized equipment, most notably fire apparatus, and several vehicles which should be replaced in FY2020 or FY2021 which is earlier than planned (for example unit 2) or were not funded in the previous year (units 38, 181, and 457). We have offset some of the cost by delaying the replacement of several vehicles which were scheduled for replacement in FY2020 (units 10, 17, 19, 30, 39, 164, and 756). The estimated core fleet replacement cost over the five year period is \$2,022,387 which is down from the prior CIP amount of \$2,385,803; specialized equipment is \$7,143,890 which is up significantly from the prior CIP amount of \$5,548,947; and snow and ice equipment is \$1,059,484 which also up from the prior amount of \$328,346. The FY2020 request is for vehicles that have been identified to be replaced based on, condition, functionality, usability, or cost of maintenance. The vehicles identified for replacement in FY2021 and beyond are based on industry recommended replacement schedules. However, the schedule is adjusted annually based on the actual condition of the vehicles, the serviceability of the vehicles, demands on the equipment, and financial resources.

Specific Questions:

Question 3: Does this project require any permitting by any Town or State agency? All vehicles which travel the public roadways must be registered through the Massachusetts Department of Motor Vehicles.

Question 7: If funded, will the operating budget need to be increased to cover operating expenses? Yes, as part of the fleet replacement program, there are recommendations to change some of the vehicles types or increase the number of vehicles available for use. In those years where such a change is approved, there may be an increase in insurance, and perhaps specialized tools in order to better maintain the new equipment.

Question 11: Is specialized training or annual licensing required that the Town will need to pay in order to use the asset? Yes, some vehicles require a commercial driver's license to operate. Other vehicles have specialized equipment which requires period training and demonstrations on the proper use of the equipment.

Question 18: Will any other department be required to provide assistance in order to complete the project? Yes, the various requesting departments must assist in the final assessment of the vehicle to be replaced, procurement of the new vehicle, and the discontinuation or transfer of the current vehicle. The vehicle may be retained as a pool vehicle for the department, transferred to another department, auctioned or traded, or otherwise disposed.

Question 19: If funded, will this project increase the operating expense for any other department? Increase costs may be incurred for any department that increases the number of vehicles used in the fleet. The Town's commercial and vehicle insurance expense could increase.

The total request consists of both General and Enterprise Fund assets of which the portion that relates to an enterprise fund would be paid by the applicable enterprise fund. The table below summarizes the amount that would be paid from enterprise funds if approved.

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		Capital Project Request	
Project Title:	Fleet Replacement Program	Fiscal Year:	2020

Supplemental Information

Fund	Approved FY2019	Request FY2020	Request FY2021	Request FY2022	Request FY2023	Request FY2024	5 Year Request
General Fund	\$1,821,605	\$1,583,817	\$1,284,426	\$1,915,298	\$1,031,794	\$2,141,595	\$7,956,930
RTS Enterprise	\$377,471	Discontinued					\$0
Sewer Enterprise	\$132,111	\$522,755	\$735,005	\$377,262	\$41,618	\$149,723	\$1,826,363
Water Enterprise	\$355,048	\$0	\$51,972	\$302,067	\$53,636	\$34,793	\$442,468
Total	\$2,686,235	\$2,106,572	\$2,071,403	\$2,594,627	\$1,127,048	\$2,326,111	\$10,225,761

	Approved FY2019	Request FY2020	Request FY2021	Request FY2022	Request FY2023	Request FY2024	5 Year Request
General Fund							
Core Fleet - Town	7	8	6	7	2	4	27
Core Fleet - Schools	2	3	2	2	2		9
Specialized	3	2	2	7	2	4	17
Trailers	1	1	1	1		2	5
Snow and Ice	1	2	1		2		5
RTS Enterprise							
Core Fleet	2						0
Specialized	1						0
Sewer Enterprise							
Core Fleet	2		1		1		2
Specialized		2	2	2		1	7
Trailers				1			1
Water Enterprise							
Core Fleet			1	1			2
Specialized	2			2			2
Trailers			1		2	2	5
Total	21	18	17	23	11	13	82

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
2	DPW Fleet	2010	Ford F150 XL	Pick Up	Fleet Supervisory Vehicle	37,060				
3	DPW Fleet	2012	Ford F450	Utility Truck	Fleet Field Service Truck; Snow & Ice Vehicle (Mechanic)			78,567		
5	DPW RTS	2011	INTERNATIONAL 7400 Serie	e Dump Truck	RTS All-Purpose Utility Vehicle; Snow & Ice Vehicle (Primary)				247,365	
9	DPW Highway	2012	INTERNATIONAL 7400 Serie	Dump Truck	Highway Material & Equipment Transport; Snow & Ice Vehicle (Primary)					287,978
10	DPW Highway	2010	INTERNATIONAL 7400 Serie	e Dump Truck	Highway Material & Equipment Transport; Snow & Ice Vehicle (Primary)			269,978		
11	DPW Sewer	2013	FORD EXPLORER	SUV	Sewer Backflow Inspection Vehicle; Snow & Ice Vehicle (Supervisory)				41,618	
17	DPW Sewer	2012	Ford F550	Dump Truck	Sewer Material Transport (Excavation); Snow & Ice Vehicle (Primary)			73,233		
19	DPW Sewer	2010	INTERNATIONAL 7400 Serie	e Dump Truck	(Primary)			268,830		
23	DPW Sewer	2011	Ford F350	Utility Truck	Sewer Personnel & Supply Transport (Pump Station Maintenance); Snow & Ice Vehicle (Primary)		56,054			
25	DPW Water	2012	Ford F450	Utility Truck	Water Personnel & Supply Transport (Excavation); Snow & Ice Vehicle (Primary)			96,907		
29	DPW Sewer	2008	INTERNATIONAL 7400 Serie	e Jet Vac	Sewer Maintenance Vehicle (Jet Truck)	321,268				
30	DPW Water	2012	Ford F550	Dump Truck	Water Material Transport (Excavation); Snow & Ice Vehicle (Primary)			136,811		
31	DPW Water	2011	Ford F150	Pick Up	Water Supervisory Vehicle (General); Snow & Ice Vehicle (Supervisory)		44,118			
32	DPW Highway	2012	Ford F350	Pick Up	Highway Supervisory Vehicle; Snow & Ice Vehicle (Supervisory)			68,349		
34	DPW RTS	2001	MACK TRACTOR	Tractor	RTS Equipment Transport (Trailer/Screens)					182,172

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
35	DPW Sewer	1999	INTERNATIONAL 4900 Serie	e 6 Wheel Dum	Sewer Maintenance Vehicle n(Catch Basin Cleaner); Snow & Ice Vehicle (Secondary)	201,487				
36	DPW RTS	2014	WARREN UTILITY Trailer	Trailer	RTS Equipment Trailer (Open-Top Containers)					79,281
37	DPW Sewer	2010	INTERNATIONAL 7500 Serie	e Vactor	Sewer Maintenance Vehicle (Vactor)		398,030			
38	DPW Parks	2007	INTERNATIONAL IH 4300 Se	:Truck	P&F Forestry Maintenance Vehicle (Aerial Lift Truck)	274,434				
39	DPW Highway	2012	Ford F550	Dump Truck	Highway Personnel and Supply Transport; Snow & Ice Vehicle (Primary)			73,233		
40	DPW Water	2012	Ford F350	Pick Up	Water Supervisory Vehicle (Excavation); Snow & Ice Vehicle (Primary)			68,349		
43	DPW Highway	2012	Ford F350	Pick Up	Highway Supervisory Vehicle; Snow & Ice Vehicle (Supervisory)			66,407		
45	DPW Engineering	2012	FORD E150 VAN	Passenger Va	ıı Engineering Surveying Vehicle			45,656		
56	DPW RTS	2010	Ford F150	Pick Up	RTS Supervisory Vehicle	50,332				
57	DPW Highway	2012	Ford F350	Pick Up	Highway Supervisory Vehicle; Snow & Ice Vehicle (Supervisory)	63,804				
58	DPW RTS	2011	STECO REFUSE TRAILER	Trailer	RTS Equipment Trailer (Open-Top Containers)		Operating B	udget		
60	DPW RTS	2012	STECO REFUSE TRAILER	Trailer	RTS Equipment Trailer (Open-Top Containers)			Operating B	udget	
64	DPW RTS	2013	STECO REFUSE TRAILER	Trailer	RTS Equipment Trailer (Open-Top Containers)				Operating B	udget
91	DPW RTS	2000	CONSTRUCTION SCALP TRU	JCK	RTS Material Processing Vehicle (Scalper Screen)			143,142		
92	DPW Engineering	2012	FORD EXPLORER	SUV	Engineering Surveying Vehicle; Snow & Ice Vehicle (Supervisory)	41,550				

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
101	DPW Sewer	2010	CASE LOADER	Yellow Iron	Sewer Construction Vehicle (Loader); Snow & Ice Vehicle (Primary)		280,921			
102	DPW Highway	2008	JOHN DEERE LOADER 544J	Equipment	Highway Construction Vehicle (Loader); Snow & Ice Vehicle (Primary)	252,140				
103	DPW Sewer	2012	JOHN DEERE BACKHOE	Yellow Iron	Sewer Construction Vehicle (Backhoe Loader); Snow & Ice Vehicle (Primary)					149,723
107	DPW Highway	2008	CAMOPLAST SW4S	Yellow Iron	Snow & Ice Vehicle (Sidewalk)	178,571				
108	DPW Highway	2011	TRACKLESS TRACTOR	Yellow Iron	Highway Maintenance Vehicle (Mower); Snow & Ice Vehicle (Primary)				197,985	
112	DPW Highway	2011	Prinoth	Yellow Iron	Snow & Ice Vehicle (Sidewalk)				245,967	
113	DPW Highway	2008	CAMOPLAST SW4S	Yellow Iron	Snow & Ice Vehicle (Sidewalk)		184,821			
121	DPW Highway	2007	Vermac UTILITY TRAILER	Trailer	Highway Equipment Trailer (Electronic Message Board)			17,213		
122	DPW Highway	2007	Vermac UTILITY TRAILER	Trailer	Highway Equipment Trailer (Electronic Message Board)			17,213		
123	Police	2009	CARMATE UTILITY TRAILER	Trailer	Highway Equipment Trailer					
145	DPW RTS	2011	Work sport PACE UTILITY T	FTrailer	RTS Equipment Transport (Water Cannon)				-	
151	DPW Water	2008	INGERSOLL RAND AIR COM	l Trailer Comp	Water Equipment Trailer (Air Compressor)				16,580	
164	DPW Water	2008	Trailer ATLAS Copco	Trailer MDT (Water Equipment Trailer (Generator)				37,056	
168	DPW Sewer	2010	GORMAN UTILITY TRAILER	Trailer	Water Equipment Trailer (Pump)			35,199		
181	DPW Highway	2012	Elgin PELICAN Sweeper	Equipment	Highway Maintenance Vehicle (Sweeper)	313,169				

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
186	DPW Parks	2010	GIANT LEAF VAC TRAILER	Trailer	P&F Equipment Trailer (Leaf Vac)			26,623		
254	DPW Parks	2013	BANDIT BRUSH CHIPPER	Equipment	P&F Equipment Trailer (Chipper)				73,183	
256	DPW Parks	2008	TRAILER UTILITY	Trailer	P&F Equipment Trailer (Chipper)	64,936				
259	DPW Highway	2010	HUDSON TRAILER	Trailer	Highway Equipment Trailer (Pavement Roller)		3,354			
260	DPW Water	2009	FELLING UTILITY TRAILER	Trailer	Water Equipment Trailer (Roller)					29,672
261	DPW Water	2009	HUDSON TRAILER HD10	Trailer	Water Equipment Trailer (Excavator)					5,121
324	DPW Water	2006	CONST UTILITY TRAILER	Trailer	Water Equipment Trailer (Excavation Equipment)		7,854			
350	DPW Parks	2010	JOHN DEERE TRACTOR LOA	Yellow Iron	P&F All-Purpose Maintenance Vehicle (Utility Tractor)			67,245		
400	Building Inspector	2005	Ford Taurus	Sedan	Field work			35,441		
404	Health and Human Services	2012	Ford E350 VAN	Passenger Va	aı Passenger Transport			93,575		
452	Finance Assessing	2013	Ford Taurus	Sedan	Field Work site visits for appraisal work				38,305	
453	Building Inspector	2016	Ford Focus	Sedan	Field work					37,966
454	Building Inspector	2014	Ford Fusion	Sedan	Field work					37,966
455	Building Inspector	2016	Ford Focus	Sedan	Field work					37,966
456	Building Inspector	2014	Ford Fusion	Sedan	Field work					37,966

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
457	Building Inspector	2006	Ford Taurus	Sedan	Field work	33,085				
573	Police	2018	Ford Explorer	SUV	Front Line Cruiser		Operating B	dgt		
577	Police	2016	Ford Explorer	SUV	Command Unit for all emergency units within Town	Operating B	dgt			
589	Police	2019	Fleet Increase Request		Front Line Cruiser	Operating B	dgt			
700	DPW Building Maintenance	2012	Ford Econ Van E250	Van	Facilities Supply & Equipment Transport (Electrical)				48,461	
705	DPW Building Maintenance	2006	Ford Econ Van E250	Van	Facilities Supervisory Vehicle	37,060				
707	DPW Building Maintenance	2008	Ford Econ Van E250	Van	Facilities Supply & Equipment Transport (HVAC)		45,239			
710	DPW Parks	2008	LEAF UTILITY TRAILER	Trailer	Facilities Equipment Trailer (Leaf Vac)					8,077
712	DPW Building Maintenance	2011	Ford Econ Van E250	Van	Facilities Supply & Equipment Transport (Plumbing)			46,822		
713	DPW Building Maintenance	2012	Ford F450	Dump Truck	Facilities Heavy Field Service Vehicle					84,163
715	DPW Building Maintenance		Fleet Increase Request		Plumbing Operations	43,709				
720	DPW Building Maintenance	2009	Ford Escape Hybrid	SUV	Shift Supervisor Vehicle		34,243			
756	DPW Building Maintenance	2010	Ford F150	Pick Up	Facilities Supervisory Vehicle			39,700		
Bus 1	School	2017	BLUE BIRD 303 SCHOOL BI	J School Bus	Pupil Transport				90,264	
Bus 14	School	2012	IC SCHOOL BUS	Mini Bus	Pupil Transport	81,942				

Unit #		Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
Bus 2	School		2017	BLUE BIRD 303 SCHOOL B	U School Bus	Pupil Transport				90,264	
C-01	Fire		2017	FORD EXPLORER	SUV	Manager		47,733			
C-02	Fire		2016	Chevrolet TAHOE	SUV	Command Vehicle		54,357			
C-03	Fire		2013	FORD EXPLORER	SUV	Manager		47,733			
C-06	Fire		2015	Ford F350	Pick Up	Emergency Response		68,750			
C-42	Fire		2013	Ford Explorer	Sedan	Field Work, Inspections and Incident Response	35,249				
HAZ	Fire		1996	HAZMAT TRAILER	Trailer	Emergency Response				-	
L-01	Fire		2004	SUTPHEN QUINT LADDER	ΓΙ Fire Truck	Emergency Response					1,348,060
R-01	Fire		2016	FORD E450 AMBULANCE	Ambulance	Emergency Response		350,322			
R-02	Fire		2017	FORD E450 AMBULANCE	Ambulance	Emergency Response			362,584		
R-03	Fire		2008	FORD E450 AMBULANCE	Ambulance	Emergency Response		350,322			
R-04	Fire		2006	FORD E450 AMBULANCE	Ambulance	Emergency Response			362,584		
Van 1	School		2011	FORD E150 VAN	Passenger Va	aı Pupil Transport	38,388				
Van 10) School		2015	TOYOTA SIENNA	Van	Pupil Transport			50,483		
Van 2	School		2011	FORD E150 VAN	Passenger Va	aı Pupil Transport	38,388				

Unit #	Department	Year	Make/Model	Vehicle Type	Primary Purpose	FY20 Funding Amount	FY21 Funding Amount	FY22 Funding Amount	FY23 Funding Amount	FY24 Funding Amount
Van 7 Scho	ool	2012 FO	RD E250 VAN	Passenger Vai Pup	il Transport		48,776			
Van 8 Scho	ool	2013 FO	RD E250 VAN	Passenger Vai Pup	il Transport		48,776			
Van 9 Scho	ool	2014 TO	YOTA SIENNA	Van Pup	il Transport			50,483		

Color Code

Green = Core Fleet Vehicles

Tan = Specialized or Heavy Vehicles

Blue = Snow and Ice Operation Vehicles

Purple = School Vehicles

				Capital Projec	t Request					
Project Title: Traf	fic Improvements						ı	Fiscal Year:	2020	
Purpose: Cons	truction	Classifica	ntion: In	frastructure	St	atus:	Amended Request f	rom the Prior CIP		
Department: Publ	ic Works - Engineering	•			Su	ipports:	Transportation Netv			
Partners:					Us	seful Life:	Between eighteen (18) and twenty-five (25) years			
•				<u>Parameters</u>					Response	
1. Are there any costs to bid, design, construct, purchase, install, implement, or otherwise complete the project which are NOT included is this request?										
2. Are there recommendations or costs identified by other departments which are NOT factored into the request?										
3. Does this project require any permitting by any Town or State agency?										
4. If this request is for Technology, has the Department communicated with ITC, and does ITC support the request?										
5. If this request is for Building Improvements, has the Department communicated with the Building Maintenance (BM) division, and does BM support the request?										
6. If funded, will additional permanent staff be required?										
7. If funded, will the operating budget need to be increased to cover operating expenses?										
8. If funded, will this project lower the requesting Department's operating costs?										
9. If funded, will this project require ongoing assistance from vendors at an additional expense to the Town which is NOT already budgeted?										
10. If the project is NOT funded, will current Town revenue be reduced?										
11. Is specialized training or annual licensing required that the Town will need to pay in order to use the asset?									No	
12. Is this a project for which an Initial Eligibility Project Application can be filed with the Community Preservation Committee (CPC)?										
13. Is this a request in response to a Court, Federal, or State order?										
14. Is this a request in response to a documented public health or safety condition?										
15. Is this a request to improve or make repairs to extend the useful life of a building?										
16. Is this a request to purchase apparatus/equipment that is intended to be permanently installed at the location of its use?										
17. Is this a request to repair or otherwise improve public property which is NOT a building or infrastructure?										
18. Will any other department be required to provide assistance in order to complete the project?										
19. If funded, will this project increase the operating expense for any other department?									Yes	
Project Cost: \$250	How was the	e Project Cost De	etermined:	In-	-House Estimate					
Budget Impact: May	increase annual operating	expenses betwe	en \$5,001 and	d \$25,000						
Project Budget El	ements Project Bu	ıdget 20	020	2021	2022	2023	2024	2025	2026	
Planning/Feasibility		\$0								
Design/Engineering		\$0								
and/ROW Acquisition		\$0								
Site Preparation		\$0								
Construction	\$2	50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000			
Construction Manageme	ent	\$0								
quipment		\$0								
urniture, Fixtures, and I	Equipment	\$0								
echnology Hardware/S	oftware	\$0								
Other Expenses		\$0								
TOTAL	Ć 3 E	0,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0		

Capital Project Request									
Project Title:	Traffic Improvements		Fiscal Year:	2020					
		Project Description and Considerations							

This request will allow for the funding of projects that are recommended by the Traffic Management Advisory Committee (TMAC). The \$50,000 annual request will support one or two TMAC construction related projects per year such as 500 feet of roadway granite curb installation, two school zone installations, two average traffic calming installations, several radar sign installations, or sign and/or pavement markings.

Project Summary

- The goal of the TMAC is to provide for the safety of pedestrians, motorists, and bicyclists. TMAC construction related projects are not presently funded in the Department of Public Works operating budget.
- Projects include installing flashing LED pedestrian signs and school zone signs, constructing handicap ramps and cross-walks throughout town, and putting up children playing signs at various locations.

Future Projects

- Advisory curve signs with speed tabs on Forest Street
- Traffic signal timing adjustments at Great Plain Avenue and Central Avenue

Clarification of Questions

- 3. Depending on recommendations from TMAC there may be permitting requirements with the Conservation Commission, Planning Board, Zoning Board of Appeals, and Building Department.
- 7. The maintenance budget for the Highway Division will need to be increased so that improvements can be maintained. The cost of maintenance will vary based on the type of improvement made.
- 14. This request is in response to the recommendations by the TMAC and Safe Routes to School report.
- 16. Improvements under this article could include signage, signaling, curbing, or other traffic calming measures that will be permanently installed at the determined locations.
- 19. If electricity is required for any of these improvements, then the Needham Light, Electric, and Gas Program budget may be increased to fund the electricity costs.