



TOWN OF BARNSTABLE

**FY 2024 CAPITAL BUDGET
AND
FY 2024 – FY 2028
CAPITAL IMPROVEMENT PLAN**



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

PRESENTED TO

**Town of Barnstable
Massachusetts**

For the Fiscal Year Beginning

July 01, 2021

Christopher P. Morill
Executive Director

*The Government Finance Officers Association of the United States and Canada (GFOA) has presented a Distinguished Budget Award to the Town of Barnstable for the fiscal year beginning July 1, 2021. The award is the highest form of recognition in governmental budgeting. In order to receive this award, a government unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device. The Town of Barnstable has been presented with this prestigious award for **twentieth consecutive year**.*

The criterion on which the award for fiscal year 2022 was based will be used as a guide in preparing the budget for fiscal year 2024. Therefore, it is my belief that the Capital and Operating budgets presented for fiscal year 2024 conform to program requirements, and I will submit them to GFOA to determine their eligibility for another award. My Staff, Mark Milne, Finance Director, and staff are to be congratulated for their parts in this and the previous awards.

Mark S. Ells
Town Manager

ELECTED OFFICIALS

BARNSTABLE TOWN COUNCIL

Mathew P. Levesque, Council President, Precinct 10
Jennifer L. Cullum, Council Vice President, Precinct 13
Gordon Starr, Precinct 1
Eric R. Steinhilber, Precinct 2
Betty Ludtke, Precinct 3
Nikolas Atsalis, Precinct 4
Paul Cusack, Precinct 5
Paul C. Neary, Precinct 6
Jessica Rapp Grassetti, Precinct 7
Jeffrey Mendes, Precinct 8
Tracy Shaughnessy, Precinct 9
Kristine Clark, Precinct 11
Paula K. Schnepf, Precinct 12

BARNSTABLE SCHOOL COMMITTEE

Mike Judge, Chair
Kathy Bent, Vice Chair
Peter Goode
Andrew King
Joe Nystrom

TOWN CLERK

Ann M. Quirk, CMC

TOWN ADMINISTRATION

Mark S. Ells	Town Manager
Andrew M. Clyburn	Assistant Town Manager
Katie Servis	Barnstable Cape Cod Gateway Airport Manager
Cynthia A. Lovell	Town Council Administrator
Matthew Sonnabend	Chief of Police
Elizabeth Jenkins	Director of Planning & Development
Madeline Noonan	Director of Community Services
Derek Lawson	Director of Marine & Environmental Affairs
Daniel W. Santos, P.E.	Director of Public Works
Brian Florence	Director of Inspectional Services/Building Commissioner

SCHOOL ADMINISTRATION

Sara Ahern	Superintendent of Schools
Kristen Harmon	Assistant Superintendent of Schools

OTHER TOWN OFFICIALS

Karen Nober, Esq.	Town Attorney
Mark A. Milne, C.P.A	Director of Finance
Sean O'Brien	Treasurer/Collector
Lane Partridge	Director of Assessing
William E. Cole	Director of Human Resources
James A. Benoit	Director of Information Technology
Greg Quilty	Director of Veterans Services

AIRPORT COMMISSION

John T. Griffin, Jr. - Chair
John Flores - Vice Chair
Norman Weill - Clerk
Wendy Bierwith - Commissioner
Mark A. Guiod - Commissioner
Bradley Bailey - Commissioner
Joe DiGeorge - Commissioner

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Front Cover Photo: Blish Point

Back Cover Photo: FY 2024 Budget Action Calendar

Editors: Mark A. Milne, CPA Director of Finance
Gareth Markwell, Deputy Director of Finance for Municipal Operations

PART I – CAPITAL IMPROVEMENT PLAN SUBMISSIONS

Cost and Fiscal Year Summary

The capital projects identified by departments in this year’s capital improvement plan process represent a total of \$107 million of requests for FY 2024 and a combined total of \$670 million over a five-year period. Of the \$607 million, \$153 million represents Enterprise Funds, \$224 million are General Fund requests and \$293 million are Comprehensive Wastewater Management Plan (CWMP) requests.

Fiscal Year	Enterprise Funds	General Fund	Comprehensive Wastewater Mgt. Plan (CWMP)	Total
2024	\$ 22,859,030	\$ 50,228,030	\$ 33,550,000	\$ 106,637,060
2025	61,728,911	87,795,716	135,400,000	284,924,627
2026	20,913,564	27,083,202	42,600,000	90,596,766
2027	37,405,735	29,548,996	46,100,000	113,054,731
2028	10,390,500	28,874,488	35,700,000	74,964,988
Totals	\$ 153,297,740	\$ 223,530,432	\$ 293,350,000	\$ 670,178,172

Projects for the Enterprise Funds distributed by fund are as follows:

Enterprise Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Totals
Airport	\$ 4,593,444	\$ 10,480,000	\$ 6,315,864	\$ 6,750,000	\$ 6,750,000	\$ 34,889,308
Marina	367,000	9,765,000	1,678,500	-	670,500	12,481,000
Sandy Neck	50,000	4,300,000	-	-	-	4,350,000
HYCC	2,293,435	3,398,911	1,409,200	540,735	-	7,642,281
Golf	1,108,151	-	-	-	-	1,108,151
Water Pollution	7,050,000	3,125,000	9,600,000	3,200,000	1,050,000	24,025,000
Water Supply	7,247,000	27,700,000	1,700,000	26,700,000	1,700,000	65,047,000
Solid Waste	150,000	2,960,000	210,000	215,000	220,000	3,755,000
Totals	\$22,859,030	\$ 61,728,911	\$20,913,564	\$37,405,735	\$10,390,500	\$153,297,740

General Fund projects identified by department are as follows:

General Fund Department	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Totals
Police	\$ 2,295,479	\$ 2,550,239	\$ -	\$ -	\$ -	\$ 4,845,718
Marine & Environmental Affairs	3,094,000	10,456,000	5,125,000	6,650,000	2,600,000	27,925,000
Community Services	8,933,819	13,746,606	6,335,899	5,450,576	16,359,488	50,826,388
Public Works	31,254,732	54,492,871	9,172,303	13,448,420	5,415,000	113,783,326
School	4,650,000	6,550,000	6,450,000	4,000,000	4,500,000	26,150,000
Totals	\$50,228,030	\$ 87,795,716	\$27,083,202	\$29,548,996	\$28,874,488	\$223,530,432

Detailed Project Listing

The description and justification for each project listed on the following tables are included in Part V and Part VI of this document. Part V contains projects recommended for funding in the FY 2024 program while Part VI includes those projects that will be addressed in subsequent years.

Project Submissions for Enterprise Funds

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
BMA	1	HVAC Upgrades to Terminal & Tower	1,015,864	-	-	-	-	1,015,864
BMA	2	Master Plan Updates	525,000	-	-	-	-	525,000
BMA	3	Security Camera Upgrades	689,000	-	-	-	-	689,000
BMA	4	Replace SRE Equipment 10-wheeler - Airport #47	383,000	-	-	-	-	383,000
BMA	5	SRE Equipment Storage Facility	1,120,580	-	-	-	-	1,120,580
BMA	6	Electric Aircraft Support Vehicle & Charging Station	505,000	-	-	-	-	505,000
BMA	7	Jet A Fuel Storage Tank	355,000	-	-	-	-	355,000
BMA	8	Relocate & Extend Taxiway B	-	8,800,000	-	-	-	8,800,000
BMA	9	Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow)	-	100,000	-	-	-	100,000
BMA	10	Replace SRE Equipment - Airport #32 (Chevy 2500HD)	-	80,000	-	-	-	80,000
BMA	11	Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion	-	1,500,000	-	-	-	1,500,000
BMA	12	Reconstruction and Re-Alignment of Taxiways Delta and Echo at Runway 15	-	-	5,300,000	-	-	5,300,000
BMA	13	Terminal Restroom Remodel	-	-	1,015,864	-	-	1,015,864
BMA	14	Acquire Easements/Acquisition for Future Construction/Runway Extension	-	-	-	6,750,000	6,750,000	13,500,000
TOTAL AIRPORT			\$ 4,593,444	\$ 10,480,000	\$ 6,315,864	\$ 6,750,000	\$ 6,750,000	\$ 34,889,308
MAR	1	Prince Cove Marina Improvements	195,000	-	819,500	-	670,500	1,685,000
MAR	2	Barnstable Harbor Marina Revetment	172,000	-	859,000	-	-	1,031,000
MAR	3	Bismore Park Bulkhead & Marina Improvements	-	9,765,000	-	-	-	9,765,000
TOTAL MARINA			\$ 367,000	\$ 9,765,000	\$ 1,678,500	\$ -	\$ 670,500	\$ 12,481,000
SDN	1	Sandy Neck Facility Relocation	50,000	4,300,000	-	-	-	4,350,000
TOTAL SANDY NECK			\$ 50,000	\$ 4,300,000	\$ -	\$ -	\$ -	\$ 4,350,000
HYCC	1	HYCC Facility Mechanical Improvements	1,752,400	802,000	1,409,200	540,735	-	4,504,335
HYCC	2	HYCC Security System	285,059	-	-	-	-	285,059
HYCC	3	HYCC Rink Slab Replacement	255,976	2,596,911	-	-	-	2,852,887
TOTAL HYCC			\$ 2,293,435	\$ 3,398,911	\$ 1,409,200	\$ 540,735	\$ -	\$ 7,642,281

Project Submissions for the Enterprise Funds – Continued

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
GOLF	1	HGC Turf Maintenance Equipment	492,270	-	-	-	-	492,270
GOLF	2	OBF Irrigation Sprinkler Replacement	82,561					82,561
GOLF	3	OBF Cart Barn Roof Replacement	161,757					161,757
GOLF	4	OBF Storage Building	371,563					371,563
TOTAL GOLF			\$ 1,108,151	\$ -	\$ -	\$ -	\$ -	\$ 1,108,151
WPC	1	Pump Station Rehabilitation Program	1,750,000	2,500,000	1,900,000	400,000	400,000	6,950,000
WPC	2	Water Pollution Control Facility Improvements	4,500,000	-	200,000	1,850,000	-	6,550,000
WPC	3	Downtown Hyannis Force Main Rehabilitation	800,000	-	7,500,000	-	-	8,300,000
WPC	4	Effluent Sand Bed Valve Rehabilitation	-	400,000	-	-	-	400,000
WPC	5	Sewer System Rehabilitation	-	225,000	-	-	650,000	875,000
WPC	6	MSB Generator Design and Construction	-	-	-	850,000	-	850,000
WPC	7	Tractor 259 Replacement	-	-	-	100,000	-	100,000
TOTAL WATER POLLUTION CONTROL			\$ 7,050,000	\$ 3,125,000	\$ 9,600,000	\$ 3,200,000	\$ 1,050,000	\$ 24,025,000
WS	1	Pipe Replacement and Upgrade Program	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
WS	2	Wells, Pump Stations, Treatment Plant Upgrades	200,000	200,000	200,000	200,000	200,000	1,000,000
WS	3	Mary Dunn 1: Water Storage Tank Rehabilitation	927,000	-	-	-	-	927,000
WS	4	New Well Exploration Program	620,000	-	-	-	-	620,000
WS	5	Mary Dunn 4 Well Building	1,000,000	-	-	-	-	1,000,000
WS	6	Mary Dunn Rd Water Main Replacement	3,000,000	-	-	-	-	3,000,000
WS	7	Straightway Filtration Plant		25,000,000				25,000,000
WS	8	Airport & Mary Dunn 1 Filtration Plant		1,000,000		25,000,000		26,000,000
TOTAL WATER SUPPLY			\$ 7,247,000	\$ 27,700,000	\$ 1,700,000	\$ 26,700,000	\$ 1,700,000	\$ 65,047,000
SW	1	License Plate Reader Technology	50,000	-	-	-	-	50,000
SW	2	Container Replacement	50,000	55,000	60,000	65,000	70,000	300,000
SW	3	Compactor Unit Replacement	-	225,000	150,000	150,000	150,000	675,000
SW	4	Solid Waste Facility Improvements	50,000	2,680,000	-	-	-	2,730,000
TOTAL SOLID WASTE			\$ 150,000	\$ 2,960,000	\$ 210,000	\$ 215,000	\$ 220,000	\$ 3,755,000
TOTAL ENTERPRISE FUNDS			\$ 22,859,030	\$ 61,728,911	\$ 20,913,564	\$ 37,405,735	\$ 10,390,500	\$ 153,297,740

Project Submissions for the Comprehensive Wastewater Management Plan (CWMP)

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
CWMP	1	PCW Route Sewer Expansion	30,900,000					30,900,000
CWMP	2	Old Craigville Rd Sewer Expansion	1,500,000		18,250,000			19,750,000
CWMP	3	Long Beach Sewer Expansion	350,000	750,000	8,500,000			9,600,000
CWMP	4	Old Yarmouth Rd Sewer Expansion	650,000		7,950,000			8,600,000
CWMP	5	Warren's cove Aquaculture Feasibility Study	150,000					150,000
CWMP	6	Effluent Disposal Alternatives		TBD		TBD		-
CWMP	7	Rt. 28 West Sewer Expansion		35,000,000				35,000,000
CWMP	8	Nitrogen Removal improvements at WPCF		36,000,000				36,000,000
CWMP	9	Headworks Improvements at WPCF		29,800,000				29,800,000
CWMP	10	Phinney's Lane Sewer Expansion		32,000,000				32,000,000
CWMP	11	Shootflying Hill Rd Sewer Expansion		900,000		9,550,000		10,450,000
CWMP	12	Great Marsh Rd Sewer Expansion		300,000	1,200,000		15,500,000	17,000,000
CWMP	13	Osterville woods Sewer Expansion		600,000	1,400,000		18,500,000	20,500,000
CWMP	14	South County Rd Sewer Expansion			300,000	700,000		1,000,000
CWMP	15	Long Pond Area Sewer Expansion				35,000,000		35,000,000
CWMP	16	Prince Cove Sewer Expansion				400,000	1,000,000	1,400,000
CWMP	17	Huckins Neck Rd Sewer Expansion				300,000	700,000	1,000,000
CWMP	18	Mill Pond Dredging		50,000	5,000,000	150,000		5,200,000
TOTAL COMPREHENSIVE WASTEWATER MANAGEMENT			\$ 33,550,000	\$ 135,400,000	\$ 42,600,000	\$ 46,100,000	\$35,700,000	\$ 293,350,000

Project Submissions for the General Fund

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
BPD	1	Barnstable Police Facility Improvements	2,295,479	2,550,239	-	-	-	4,845,718
		TOTAL POLICE	\$ 2,295,479	\$ 2,550,239	\$ -	\$ -	\$ -	\$ 4,845,718
MEA	1	Scudder's Lane Boat Ramp	496,000	-	-	-	-	496,000
MEA	2	MEA Storage Facility Project	150,000	1,256,000	-	-	-	1,406,000
MEA	3	MEA Parking Lot Improvements	275,000	-	-	-	-	275,000
MEA	4	Stormwater Improvements at Shellfish Sites	930,000	-	-	-	-	930,000
MEA	5	Little River Fish Passage Restoration	90,000	TBD	-	TBD	-	90,000
MEA	6	Rosa Lane Fish Passage Culvert Replacement	225,000	-	1,000,000	-	-	1,225,000
MEA	7	Bay Shore Road Boat Ramp	190,000	620,000	-	-	-	810,000
MEA	8	Lake Elizabeth Fish Run, Dam & Culvert Improvs.	125,000	500,000	-	-	-	625,000
MEA	9	McCarthy's Landing Dinghy Dock	295,000	-	-	-	-	295,000
MEA	10	Cotuit Town Dock Improvements	100,000	1,600,000	-	-	-	1,700,000
MEA	11	Channel Dredging Program	-	2,675,000	2,125,000	1,750,000	2,600,000	9,150,000
MEA	12	Mill Pond Fishway	-	2,183,000	-	-	-	2,183,000
MEA	13	Hyannis Breakwater	-	235,000	TBD	-	-	235,000
MEA	14	West Bay Breakwater	-	250,000	-	4,900,000	-	5,150,000
MEA	15	Blish Point Boat Ramp Improvements	218,000	1,062,000	-	-	-	1,280,000
MEA	16	Blish Point Construction for Long Term Solution	-	75,000	2,000,000	-	-	2,075,000
		TOTAL MARINE & ENVIRONMENTAL AFFAIRS	\$ 3,094,000	\$ 10,456,000	\$ 5,125,000	\$ 6,650,000	\$ 2,600,000	\$ 27,925,000
CSD	1	Centerville Recreation Multipurpose Field	425,002	-	-	-	-	425,002
CSD	2	Adult Community Center Master Plan Development	128,500	TBD	-	-	-	128,500
CSD	3	Skate Park Master Plan & Design	308,727	2,054,169	-	-	-	2,362,896
CSD	4	Town Recreation Field Improvements	757,811	489,500	2,985,950	979,000	440,550	5,652,811
CSD	5	Automatic Beach Gate	207,266	-	-	-	-	207,266
CSD	6	Osterville Playground	1,352,336	-	-	-	-	1,352,336
CSD	7	Salt Water Beach House Improvements	235,000	2,030,505	2,451,309	2,384,854	596,135	7,697,803
CSD	8	Kennedy Memorial Renovation	2,174,366	-	-	-	-	2,174,366
CSD	9	Veterans Park Improvements	2,487,689	3,839,148	898,640	2,086,722	-	9,312,199
CSD	10	Hamblin Pond Bathhouse and Site Improvements	315,000	1,630,000	-	-	-	1,945,000
CSD	11	Hathaway's Pond Bathhouse and Site Improvements	-	2,044,734	-	-	-	2,044,734
CSD	12	Community Building Security System	237,122	-	-	-	-	237,122
CSD	13	Joshua's Pond Handicap Accessibility & Beach Improv.	305,000	1,658,550	-	-	-	1,963,550
CSD	14	Osterville Recreation Building	-	-	-	-	15,322,803	15,322,803
		TOTAL COMMUNITY SERVICES	\$ 8,933,819	\$ 13,746,606	\$ 6,335,899	\$ 5,450,576	\$ 16,359,488	\$ 50,826,388

Project Submissions for the General Fund – Continued

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
DPW	1	Public Roads Maintenance	3,850,000	3,950,000	4,050,000	4,150,000	4,250,000	20,250,000
DPW	2	Town Hall Roof Analysis & Repair	185,235	-	-	-	-	185,235
DPW	3	School Admin. Building Mechanical Cooling Upgrades	1,141,929	615,000	-	-	-	1,756,929
DPW	4	Monitoring and Mgt. Plan - Freshwater Ponds	270,000	135,000	405,000	200,000	TBD	1,010,000
DPW	5	Mystic Lake Alum Treatment	195,000	-	-	-	-	195,000
DPW	6	MS4 Municipal Separate Storm Sewer System	95,000	-	-	-	-	95,000
DPW	7	Emergency Generator Implementation Plan	1,033,282	447,325	-	-	-	1,480,607
DPW	8	Public Bridge Maintenance and Repairs	500,000	-	500,000	-	500,000	1,500,000
DPW	9	Signalization Intersection Improvements	250,000	-	250,000	-	250,000	750,000
DPW	10	West Main St & Pine St Intersection	229,000	1,196,000	-	-	-	1,425,000
DPW	11	Crosswalk Improvements	650,000	-	-	-	-	650,000
DPW	12	Stormwater Improvements at Impaired Ponds	250,000	350,000	300,000	300,000	300,000	1,500,000
DPW	13	Town Hall & School Admin Security Improvements	409,600	1,021,480	-	-	-	1,431,080
DPW	14	DPW Administration Office Expansion	400,000	-	-	-	-	400,000
DPW	15	Mosswood Cemetery Columbarium	289,408	-	-	-	-	289,408
DPW	16	Mosswood Cemetery Building Improvements	90,300	300,000	-	-	-	390,300
DPW	17	Armory Building Improvements	3,100,000	-	-	-	-	3,100,000
DPW	18	Ponds Solution - Permit & Implement	TBD	TBD	TBD	TBD	TBD	-
DPW	19	Hawes Ave. Culvert Reconstruction	131,500	1,400,000	-	-	-	1,531,500
DPW	20	Raised Crosswalks in Cotuit	325,000	-	-	-	-	325,000
DPW	21	Sidewalk Improvements on West Main St	85,000	754,000	-	-	-	839,000
DPW	22	Oyster Harbors Bridge Improvements	450,000	2,800,000	-	1,750,000	-	5,000,000
DPW	23	Bismore Park improvements	163,723	989,945	-	-	-	1,153,668
DPW	24	Town Hall Fire Suppression & Interior Improvements	2,025,852	1,464,743	-	-	-	3,490,595
DPW	25	Town Hall Campus Parking Garage	1,242,967	15,289,422	-	-	-	16,532,389
DPW	26	Town Office Relocation Project	618,759	-	-	-	-	618,759
DPW	27	Sidewalk on Pitcher's Way	165,000	1,000,000	-	-	-	1,165,000
DPW	28	Cape Cod Airfield Hanger Repair	105,076	440,000	-	-	-	545,076
DPW	29	Marstons Mills Playground & Parking	1,904,591	-	-	-	-	1,904,591
DPW	30	West Barnstable Railroad Depot Restoration	102,350	473,786	-	-	-	576,136
DPW	31	Centerville Recreation Interior	1,593,031	686,097	397,303	68,420	-	2,744,851
DPW	32	Old Town Hall - JFK Museum improvements	1,978,810	-	-	-	-	1,978,810
DPW	33	U.S. Custom House Interior Building Improvements	763,882	-	-	-	-	763,882
DPW	34	Barnstable Rd Streetscape	475,000	6,500,000	-	-	-	6,975,000
DPW	35	Three Bays Stormwater BMP Design	150,000	TBD	-	-	-	150,000
DPW	36	Old Town Hall Basement Storage	634,558	-	-	-	-	634,558
DPW	37	DPW Falmouth Rd Parking Lot Improvements	430,000	-	-	-	-	430,000
DPW	38	Sidewalks on Commerce Road	-	1,580,000	-	-	-	1,580,000
DPW	39	Guyer Barn Improvements	342,425	-	-	-	-	342,425
DPW	40	46 Pearl Street Repairs	296,680	107,800	-	-	-	404,480
DPW	41	50 Pearl Street Repairs	293,735	106,346	-	-	-	400,081

Project Submissions for the General Fund – Continued

DEPT	PRIORITY	PROJECT TITLE	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	TOTALS
DPW	42	Sidewalks on East Bay Rd	132,650	1,658,000	-	-	-	1,790,650
DPW	43	Cotuit Memorial Park Restoration	635,481	-	-	-	-	635,481
DPW	44	Private Rd Repairs	1,233,000	480,000	-	-	-	1,713,000
DPW	45	Town Hall Parking lot improvements	85,000	870,000	-	-	-	955,000
DPW	46	U.S. Custom House Site Improvements	223,269	604,785	-	-	-	828,054
DPW	47	Burgess Bram Improvements	91,070	641,770	-	-	-	732,840
DPW	48	Hyannis West End Rotary	-	250,000	3,050,000	-	-	3,300,000
DPW	49	Equipment Storage Building	336,888	2,775,468	-	-	-	3,112,356
DPW	50	Concrete Guardrail Replacement	165,000	190,000	220,000	280,000	115,000	970,000
DPW	51	South Street Improvements	-	400,000	-	6,700,000	-	7,100,000
DPW	52	Commerce Rd Resiliency Improvements & Culvert	-	4,070,000	-	-	-	4,070,000
DPW	53	Culvert Improvements - Various Locations	-	600,000	-	-	-	600,000
DPW	54	Old Jail Repairs	95,738	345,904	-	-	-	441,642
DPW	55	Cotuit Elementary School Demolition	1,039,943	-	-	-	-	1,039,943
TOTAL PUBLIC WORKS			\$ 31,254,732	\$ 54,492,871	\$ 9,172,303	\$ 13,448,420	\$ 5,415,000	\$ 113,783,326
SCH	1	BHS/BIS Rooftop Ventilator Unit Replacement		4,000,000	4,000,000	4,000,000	4,000,000	16,000,000
SCH	2	EIFS Wall Replacement - Coob Astro Park	400,000	-	-	-	-	400,000
SCH	3	Campus Wide Door & Window Replacement	1,000,000	-	-	-	-	1,000,000
SCH	4	Campus Wide Paving & Sidewalk Repair	350,000	350,000	-	-	-	700,000
SCH	5	BHS Culinary Arts Kitchen	500,000	-	-	-	-	500,000
SCH	6	Transportation Office & Campus Wide Storage	150,000	1,850,000	-	-	-	2,000,000
SCH	7	Campus Wide Mechanical Upgrades	250,000	250,000	250,000	-	-	750,000
SCH	8	Knight Hall and PAC Chillers	250,000	-	-	-	500,000	750,000
SCH	9	BHS Fields Upgrades: Phases 2 and 3	1,000,000	-	2,000,000	-	-	3,000,000
SCH	10	Network Server Upgrades	-	100,000	100,000	-	-	200,000
SCH	11	Wireless Access Upgrades	-	-	100,000	-	-	100,000
SCH	12	West Villages Elementary Carpet Removal	750,000	-	-	-	-	750,000
TOTAL SCHOOL			\$ 4,650,000	\$ 6,550,000	\$ 6,450,000	\$ 4,000,000	\$ 4,500,000	\$ 26,150,000
TOTAL GENERAL FUND			\$ 50,228,030	\$ 87,795,716	\$ 27,083,202	\$ 29,548,996	\$ 28,874,488	\$ 223,530,432

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PART II – CAPITAL SUBMISSION REVIEW PROCESS

Town Administration has implemented a review process for capital submissions requesting financing that scores projects twice and then averages the rank from each process to determine an overall ranking. This two-step process requires a taskforce made up of senior level managers across all departments. The senior level managers are responsible for reviewing and scoring the capital submissions based on two different sets of criteria, which is conducted in both a collaborative as well as individual manner. This does not determine which projects will receive funding in the immediate fiscal year, but is used as an objective measurement to assess a project's priority against all other submissions.

Round 1 Evaluation Criteria

The first round of scoring allowed department managers to present their top priority capital submissions in a workshop format with the taskforce team. Presentations focused mainly on projects for which funding is being requested in FY 2024. Enterprise Fund projects were excluded from this workshop unless they were requesting General Fund financing. This evaluation process provided taskforce members the opportunity to ask questions relative to each project presented to gain a more thorough understanding of the need and scope of the project. After the presentations, each taskforce member voted anonymously as to which category of priority the project placed based on the set of priority criteria. From this, the average score for each project was calculated with projects ranked from the highest to lowest score. A total of 67 projects out of 160 submissions were reviewed.

Priority I: Imperative (Must-Do) (4 points) – Projects that cannot reasonably be postponed in order to avoid harmful or otherwise undesirable consequences.

- A. Corrects a condition dangerous to public health or safety
- B. Satisfies a legal, regulatory or statutory obligation or requirement
- C. Alleviates an emergency service disruption or deficiency
- D. Prevents irreparable damage to a valuable public facility

Priority II: Essential (Should-Do) (3 points) – Projects that address clearly demonstrated needs or objectives.

- A. Rehabilitates or replaces an obsolete public facility or attachment thereto
- B. Stimulates economic growth and private capital investment
- C. Reduces future operating and maintenance costs
- D. Leverages available state or federal funding

Priority III: Important (Could-Do) (2 points) – Projects that benefit the community but may be delayed without detrimental effects to basic services.

- A. Provides a new or expanded level of service
- B. Promotes intergovernmental cooperation
- C. Reduces energy consumption
- D. Enhances educational, cultural or natural resources

Priority IV: Desirable (Nice-To-Do) (1 point) – Desirable projects that are not included within a two-year program because of funding limitations.

Round 2 Evaluation Criteria

In the second round of scoring, taskforce members evaluate all project submissions against a set of ten evaluation criteria including; **Public Health and Safety, Education, Economic Development, Infrastructure and Protection of Assets, Environmental and Natural Resources, Quality of Life, Financing, Operating Budget Impact, Planning and Relationships to Existing Plans, and Usage and Service Demand.** A total of 160 projects were submitted and 62 projects were reviewed in the first round. The same 62 projects were scored in the second round by each taskforce member using these criteria. The scores from the taskforce members are then averaged and project submissions are ranked from highest to lowest score.

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
PUBLIC HEALTH AND SAFETY -- degree to which project meets public health and safety needs/issues.	<p>Project is necessary to <u>alleviate a significant, existing, documented</u> health or safety hazard. This could include:</p> <p>Proposed project meets the minimum requirements/mandates of a local, state or federal law pertaining to health and safety of the community.</p> <p>Project directly pertains to the delivery of public safety through police protection.</p> <p>Project required to achieve adopted LOS for health or safety standards</p>	<p>Project is necessary to <u>prevent the onset</u> of a likely health and safety hazard or <u>alleviate an existing, minor</u> hazard. If problem does not currently exist, failure to act would result in hazard being present within one-two years. May include:</p> <p>Enhancement of current health and safety programs or projects;</p> <p>Related to, but not exclusive impact on traffic control on town's public ways;</p> <p>Addresses local, state or federal laws pertaining to health and safety, but goes beyond minimum requirements to additional enhancements.</p>	<p>Project is needed to <u>maintain the current level</u> of health and safety services provided to residents. Failure to complete project may result in appearance of hazard within 2-5 years. May include:</p> <p>Repair or regular maintenance of facilities in order to maintain a healthy and/or safe condition.</p> <p>Maintains existing traffic LOS and/or prevents formation of a safety problem.</p>	<p>Project <u>does not relate to, nor have any impact on</u> public health and safety issues within the town.</p>
EDUCATION -- applicability of project to educational priorities of the town.	<p>Project is intended <u>directly</u> for the purpose of educating the town's children and is <u>essential</u> in order to meet state and local educational standards.</p> <p>This includes repair/maintenance of, as well as new buildings and structures used for classrooms, school-sponsored recreational activities, administrative support to schools, and other related projects</p>	<p>Project will be used <u>primarily</u> for education of the town's children, but may include other ancillary uses.</p> <p>Project is important, but not required in meeting minimum educational standards.</p>	<p>Project will be used <u>minimally</u> for direct education of the town's children.</p> <p>Primary use of the project will be other than education purposes.</p> <p>This project is not required toward meeting any educational standards, but may enhance existing programs/facilities.</p>	<p>Project is <u>not intended</u> to be used for educational purposes.</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>ECONOMIC DEVELOPMENT -- degree to which project meets economic development objectives of Town Council and other town plans.</p>	<p>Project would have <u>significant impact</u> on the ability to retain and expand business within the town. May include:</p> <p>Significant impact on increasing year-round job opportunities, particularly high-paying jobs;</p> <p>Strong contribution to retaining existing and attracting new businesses to the town;</p> <p>Significant private contributions to project's future development;</p> <p>Substantially increases attraction for additional tourists to the town.</p>	<p>Project would make a <u>major contribution</u> to the Town's ability to retain and expand business. May include:</p> <p>Create expanded job opportunities, year-round and seasonal;</p> <p>Measurable retention of existing business and/or possible attraction of new business to the town.</p> <p>May involve private contributions to the project directly or indirectly;</p> <p>Increases attraction of additional tourists to the town.</p>	<p>Project would have <u>some contribution</u> to the Town's ability to retain and expand businesses. May include:</p> <p>Minimal impact on expanded job opportunities, or preventing loss of jobs;</p> <p>Some potential for attraction of new business to town.</p> <p>Little to no private contributions to the project directly or indirectly;</p> <p>May have some slight impact on attracting additional tourists to town.</p>	<p>Project <u>does not have any impact</u> on the Town's ability to retain and expand businesses, create jobs, tourism or the tax base.</p>
<p>INFRASTRUCTURE AND PROTECTION OF CAPITAL ASSETS -- degree to which project maintains and protects existing capital assets of the town.</p>	<p>Project is critical to save structural integrity of existing asset or repair significant structural deterioration.</p> <p>Failure to act would result in complete loss of the asset or would require significantly more funds if repairs are delayed.</p> <p>Project would meet the needs of the community for a minimum of 20 years.</p>	<p>Project is necessary to repair or replace assets before a partial loss of structural integrity causes the need for significant repairs.</p> <p>Project would last a minimum of 10 years.</p> <p>Project would meet the needs of the community for a minimum of 10 years.</p>	<p>Project will improve appearance, public accessibility and/or deter future maintenance of this type for a minimum of 5 years.</p> <p>Project would meet the needs of the community for a minimum of 5 years.</p>	<p>Project does not improve or protect existing capital assets.</p>
<p>ENVIRONMENT AND NATURAL RESOURCES -- degree to which project conserves and protects natural and historical resources of the town.</p>	<p>Project is critical to preservation of a well-documented natural or historic town resource. Other applicable criteria may include:</p> <p>Failure to approve project would result in damage or deterioration of key natural resource/environment in the near future.</p> <p>If not approved, project would have long-lasting negative impacts on the town's water supply or coastal resources.</p> <p>Failure to approve project would result in a loss of critical resources</p> <p>Project significantly impacts an ACEC, WP or GP designated area.</p> <p>Project is critical to protect / stabilize a town-owned significant historic resource;</p>	<p>Project will have substantial impacts on the ability to preserve or maintain a key natural or historic resource for the town. Other applicable criteria may include:</p> <p>Project may repair natural ecological deterioration and may result in improved access by residents to enjoy resource.</p> <p>Maintains or improves the ecology of freshwater ponds, wetlands, or natural habitats.</p> <p>Project impacts GP designated district or other significant areas of concern.</p> <p>Project will improve / restore a historic resource as a physical record.</p>	<p>Project will improve, but is not necessary for the maintenance of a key natural or historic resource for the town. Other applicable criteria may include:</p> <p>May improve access by the public to enjoy the resource.</p> <p>May add and/or expand the greenbelt system within the Town; or otherwise expand the amount of natural habitat.</p> <p>Project is necessary to conserve / retain existing historic materials and/or features.</p>	<p>Project does not relate to or have any impact on preservation or maintenance of natural or historic resources.</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>QUALITY OF LIFE-- degree to which project addresses town-wide quality of life for its residents.</p>	<p>Project is critical to the continuation or needed expansion of an existing cultural and/or human service.</p> <p>Project is required to respond to a documented health, cultural and/or human service need.</p> <p>Project significantly expands the quality of life for the residents of the town.</p>	<p>Project maintains or enhances the ability to deliver cultural and/or human services.</p> <p>Project enhances the existing quality of life within the town.</p>	<p>Project supports the delivery of cultural and/or human services.</p> <p>Project supports the existing quality of life within the town.</p>	<p>Project is not related to the delivery of cultural and/or human services.</p> <p>Project does not impact the quality of life within the town.</p>
<p>FINANCING -- availability of non-general fund financing overall financial feasibility.</p>	<p>Project has a highly positive fiscal impact due to the following:</p> <p>Implementing project would result in significant increased revenues to the town or significantly expands the non-residential tax base;</p> <p>Non-general fund revenues sufficient to support 75-100% of project expense; and have been identified and applied for.</p>	<p>Project has a generally positive fiscal impact due to the following:</p> <p>Project would result some increased revenue to the town or increases the non-residential tax base somewhat;</p> <p>Non-general fund revenues sufficient to support 25-74% of project expense have been identified.</p>	<p>Project has a neutral to slightly positive fiscal impact due to the following:</p> <p>Additional revenues would not offset additional costs.</p> <p>Project supported by 1-25% of non-general fund revenues.</p>	<p>Project has a negative fiscal impact due to the following:</p> <p>None of the cost of the project will be funded by non-general funds.</p> <p>Project would not bring in additional revenues.</p>
<p>OPERATING BUDGET IMPACT -- degree to which project is required to reduce or eliminate short-term operating costs; and its impact on future operating budget.</p>	<p>Project has a highly positive impact on the operating budget due to:</p> <p>Implementing project would substantially decrease current operating fund expenditures due to current excessive maintenance, patching, etc. costing more than 50% of the cost of the project, prorated over 3 years;</p> <p>100% of future operating costs can be absorbed within existing budgets once project is completed.</p> <p>Not doing project would result in significant increased operating costs to the town in the near future (i.e. major repair versus complete replacement).</p>	<p>Project has a generally positive impact on the operating budget due to:</p> <p>Implementing project may moderately decrease current operating fund expenditures due to on-going repairs, maintenance, etc. costing between 25-50% of cost of the project prorated over 3 years;</p> <p>Project would result in minimal increase in future operating costs for the benefits gained;</p> <p>Not doing project would result in a noticeable, but not significant increase in expenditure of operating funds to repair or make asset usable in the short term.</p>	<p>Project has a neutral to slightly positive impact on the operating budget due to:</p> <p>Implementing project may decrease or have a neutral effect on current operating fund expenditures due to on-going repair, maintenance, etc. costing up to 25% of the cost of the project prorated over 3 years;</p> <p>Project would increase future operating costs with only minimal benefits received;</p> <p>Not doing project would result in the need for minimal additional operating funds for repair / maintenance of current assets.</p>	<p>Projects has a negative impact on the operating budget due to:</p> <p>Significant increase in current operating fund expenditures required maintaining, repairing, or otherwise operating project.</p> <p>Project requires significant increase in future operating fund expenditures without documented benefits</p>

CRITERIA AND STRATEGIC PLAN AREA	HIGHEST IMPACT (Score of 4)	MEDIUM IMPACT (Score of 3)	LOW IMPACT (Score of 2)	NO IMPACT OR NOT APPLICABLE (Score of 0)
<p>PLANNING AND RELATIONSHIP TO EXISTING PLANS -- how the project addresses implementation of previously developed plans of the town to protect and enhance human and physical assets.</p>	<p>Project is specifically included in a plan adopted by a State, Regional or Local Legislative body, such as:</p> <p>Specifically listed in the annual Town Council Strategic Plan.</p> <p>Included within the prior 5 year Capital Improvement Program</p> <p>Listed as a priority in the 5 Year Capital Improvements Plan of the LCP (once adopted).</p> <p>Project included in a State Bond Bill</p> <p>Project is specifically listed in a plan adopted by the Town Council.</p>	<p>Project is part of an Executive Order or Plan of Action adopted by the School Board and/or the Town Manager, such as:</p> <p>Project generally supports the policies and/or resolves adopted by the Town Council</p> <p>Project is included in the current year Transportation Improvement Program (TIP).</p> <p>Project specifically included in a plan adopted by the School Board and/or the Town Manager</p>	<p>Project is included as part of a Town Departmental Work Plan, or part of a functional service delivery system such as.</p> <p>Project supports the Departmental Mission and prioritizes needed action</p> <p>Project needed to accomplish a major service effort</p> <p>Project supports a plan adopted by the School Board and/or the Town Manager</p>	<p>Project is not related to the plans, policies or resolves adopted by the Town Council or other agencies of the town.</p>
<p>USAGE AND SERVICE DEMAND - - degree to which project is used by population and manner in which it is used.</p>	<p>Project will be in continuous usage or will be used year round.</p> <p>Project will serve 50 to 100% of the population of the town.</p> <p>Project serves three or more functions and/or needs of the town.</p>	<p>Project will be used the majority of the year.</p> <p>Project will serve 25 to 75% of the population of the town or is designed for a village or other sub-area of the town.</p> <p>Project serves at least two functions and/or needs of the town.</p>	<p>Project will be used seasonally.</p> <p>Project will serve less than 25%, but more than 5% of the population of the town or is designed for a limited service area.</p> <p>Project serves a single service and/or need of the town.</p>	<p>Project will be only intermittently used.</p> <p>Project will provide limited services to a very limited service area.</p>

Project Ranking Results

The scores from the first and second round evaluations were used to rank the projects by priority using the average ranking from each method. The projects are listed by the average rank from highest to lowest. Many of the highest-ranking projects are recommended for funding in FY 2024. Some of the higher scoring projects that did not receive funding in FY 2024 may be a result of the project not being ready for the construction phase, the cost or approach requires further evaluation, funding is not available or the department submitted the project with a request for funding in a subsequent year. The projects highlighted in orange are included in the proposed FY 2024 Capital Improvement Plan. Projects highlighted in blue are planned to be submitted to the Community Preservation Committee (CPC) for funding consideration and will be brought to the Town Council after the CPC's consideration. Projects highlighted in green will be funded with Chapter 90 highway funds that do not require Town Council appropriation.

DEPT NAME	DEPT PRIORITY	PROJECT DESCRIPTION	PRIORITY BY		ROUND 1 RANK	ROUND 2 RANK	AVERAGE RANK	ROUND 1 SCORE	ROUND 2 SCORE	AVERAGE SCORE
			AVERAGE RANK	AVERAGE SCORE						
SCH	2	EIFS Wall Replacement - Cobb Astro Park	1	3	1	4	2.25	3.80	21.43	12.61
SCH	1	BHS/BIS Rooftop Ventilator Unit Replacement	2	5	2	5	3.50	3.70	21.14	12.42
HYCC	1	HYCC Facility Improvements	3	4	5	4	4.25	3.50	21.43	12.46
DPW	8	Public Bridge Maintenance & Repairs	4	1	8	1	4.50	3.40	22.57	12.99
DPW	1	Public Roads Maintenance	5	2	8	2	5.00	3.40	22.00	12.70
MEA	1	Scudder's Lane Boat Ramp	6	7	5	8	6.25	3.50	19.71	11.61
BPD	1	Barnstable Police Facility Improvements	7	9	3	11	7.00	3.60	19.00	11.30
DPW	6	MS4 Municipal Separate Storm Sewer System	8	6	11	6	8.50	3.30	20.00	11.65
SCH	3	Campus Wide Door & Window Replacement	9	12	5	13	8.75	3.50	18.71	11.11
MEA	4	Stormwater Improvements at Shellfish Sites	10	10	15	10	12.25	3.20	19.14	11.17
DPW	4	Monitoring & Management Plan - Freshwater Ponds	11	8	18	8	12.50	3.10	19.71	11.41
DPW	19	Hawes Avenue Culvert Reconstruction	12	14	15	15	14.75	3.20	18.14	10.67
DPW	3	School Administration Building Mechanical Cooling Upgrades	13	16	15	16	15.25	3.20	17.86	10.53
SCH	7	Campus Wide Mechanical Upgrades	14	17	11	20	15.50	3.30	17.43	10.36
DPW	2	Town Hall Roof Analysis & Repair	15	21	11	23	17.00	3.30	16.71	10.01
DPW	22	Oyster Harbors Bridge Improvements	16	15	21	14	17.50	2.90	18.29	10.59
SCH	12	West Villages Elementary Carpet Removal	17	23	8	28	17.75	3.40	16.43	9.91
DPW	12	Stormwater Improvements at Impaired Ponds	18	13	24	13	18.00	2.88	18.71	10.80
MEA	5	Town Wide Bulkhead Assessments	19	11	29	9	19.00	2.70	19.57	11.14
DPW	10	West Main Street & Pine Street Intersection	20	19	21	21	21.00	2.90	17.29	10.09
DPW	23	Bismore Park Improvements	21	18	29	18	23.50	2.70	17.57	10.14
MEA	6	Little River Fish Passage Restoration	22	24	26	23	24.25	2.80	16.71	9.76
DPW	7	Emergency Generator Implementation Plan	23	26	19	31	24.75	3.00	16.14	9.57
CSD	4	Bay Lane Ballfield Improvements	24	20	33	18	25.25	2.60	17.57	10.09
DPW	14	DPW Administration Office Expansion	25	30	18	35	26.00	3.10	15.86	9.48
SCH	4	Campus Wide Paving & Sidewalk Repair	26	27	26	29	27.25	2.80	16.29	9.54
DPW	34	Barnstable Road Streetscape	27	25	35	23	29.00	2.56	16.71	9.64
DPW	13	Town Hall & SAB Security Improvements	28	37	15	45	29.50	3.20	15.00	9.10
CSD	1	Centerville Recreation Multipurpose Field	29	31	29	31	29.75	2.70	16.14	9.42
MEA	7	Rosa Lane Fish Passage Culvert Replacement	30	34	21	39	30.00	2.90	15.43	9.16
SCH	8	Knight Hall & PAC Chillers	31	28	38	26	31.75	2.50	16.57	9.54
CSD	8	Kennedy Memorial Renovation	33	22	48	18	32.75	2.30	17.57	9.94
DPW	15	Mosswood Cemetery Columbarium	33	39	24	42	32.75	2.88	15.14	9.01
DPW	11	Crosswalk Improvements	34	32	35	32	33.50	2.56	16.00	9.28
CSD	7	Salt Water Beach House Improvements	35	29	43	26	34.00	2.40	16.57	9.49
SCH	10	Network Server Upgrades	36	33	38	35	36.25	2.50	15.86	9.18
MEA	8	Bay Shore Road Boat Ramp	38	36	43	35	38.50	2.40	15.86	9.13
HYCC	2	HYCC Security System Upgrade	38	45	29	48	38.50	2.70	14.43	8.56
SCH	9	BHS Fields Upgrades - Phases 2 & 3	40	38	48	35	41.00	2.30	15.86	9.08
DPW	30	West Barnstable Railroad Depot Restoration	40	41	40	42	41.00	2.44	15.14	8.79
MEA	9	Lake Elizabeth Fish Run, Dam, and Culvert Improvements	41	40	48	37	42.25	2.30	15.57	8.94
MEA	3	MEA Parking Lot Improvements	42	54	29	58	43.50	2.70	12.29	7.49
MEA	11	Cotuit Town Dock Improvements	43	35	61	28	44.25	1.89	16.43	9.16
MEA	10	McCarthy's Landing Dinghy Dock	44	47	43	47	44.75	2.40	14.57	8.49
CSD	2	Adult Community Center Master Plan Development	45	52	38	53	45.25	2.50	13.29	7.89

The Project Ranking Results (Continued)

DEPT NAME	DEPT PRIORITY	PROJECT DESCRIPTION	PRIORITY BY		PRIORITY BY		AVERAGE RANK	ROUND 1 RANK	ROUND 2 RANK	AVERAGE SCORE	ROUND 1 SCORE	ROUND 2 SCORE	AVERAGE SCORE
			AVERAGE RANK	AVERAGE SCORE	ROUND 1 RANK	ROUND 2 RANK							
DPW	5	Mystic Lake Alum Treatment	47	42	54	39	46.50	2.10	15.43	8.76			
MEA	2	MEA Storage Facility Project	47	59	33	61	46.50	2.60	11.43	7.01			
SCH	5	BHS Culinary Arts Kitchen	48	43	52	42	46.75	2.20	15.14	8.67			
DPW	29	Marstons Mills Playgournd & Parking	49	57	35	59	47.00	2.56	12.00	7.28			
DPW	9	Signalized Intersection Improvements	50	46	52	46	48.75	2.20	14.86	8.53			
HYCC	3	HYCC Kennedy Rink Slab	51	55	43	56	49.00	2.40	12.57	7.49			
SCH	6	Transportation Office & Campus Wide Storage	52	51	48	51	49.25	2.30	13.71	8.01			
CSD	3	Skate Park Master Plan & Design	53	53	48	53	50.00	2.30	13.29	7.79			
CSD	11	Hathaway's Pond Bathhouse and Site Improvements	54	44	63	39	50.75	1.88	15.43	8.65			
CSD	5	Automatic Beach Gate	55	56	48	56	51.50	2.30	12.57	7.44			
CSD	10	Hamblin Pond Bathhouse and Site Improvements	56	48	60	45	52.00	1.90	15.00	8.45			
DPW	25	Town Hall Campus Parking Garage	57	49	57	49	53.00	2.00	14.29	8.14			
CSD	6	Osterville Playground	58	50	57	50	53.50	2.00	14.14	8.07			
DPW	17	Armory Building Improvements	60	58	64	54	59.00	1.50	12.67	7.08			
DPW	41	50 Pearl Street Repairs	60	63	54	64	59.00	2.10	11.00	6.55			
DPW	39	Guyer Barn Improvements	62	62	57	62	59.50	2.00	11.29	6.64			
DPW	20	Raised Crosswalks in Cotuit	62	65	54	65	59.50	2.10	10.14	6.12			
DPW	40	46 Pearl Street Repairs	63	61	60	61	60.00	1.90	11.43	6.66			
CSD	9	Veterans Park Improvements	64	60	65	57	61.00	1.10	12.50	6.80			
DPW	43	Cotuit Memorial Park Restoration	65	64	63	63	62.75	1.88	11.17	6.52			

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PART III – STATUS OF EXISTING CAPITAL APPROPRIATIONS

Review of Active Prior Year Capital Appropriations (Balances as of 2/01/2023)

Part of the annual Capital Improvement Plan development process is to review the status of all previously approved projects. The list on the following pages comprise the active capital projects. Some of these projects are near completion and some have yet to be implemented.

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
	INFORMATION TECHNOLOGY					
2019-113	AERIAL FLYOVER & MAPPING	100,000.00	24,649.00	-	75,351.00	Will request to combine with 20089 VOIP project which needs additional funding
2019-114	AERIAL FLYOVER OF WATERW	50,000.00	45,765.00	-	4,235.00	Will request to combine with 20089 VOIP project which needs additional funding
2020-089	VOIP-UNIFIED COMMUNICATI	342,000.00	105,109.13	-	236,890.87	Waiting for space reorganization to determine locations for new system.
	INFORMATION TECHNOLOGY	492,000.00	175,523.13	-	316,476.87	
	POLICE					
2020-100	FY21 RADIO IMPROVEMENT P	121,115.00	100,154.36	-	20,960.64	Needed for installation/programming/accessories
2020-101	FY21 DATA STORAGE-POLICE	125,000.00	99,134.28	-	25,865.72	Project in progress. Anticipate using remaining available budget
2021-097	COMIRS RADIO REPLACEMENT	487,367.00	114,047.00	-	373,320.00	Project complete. Balance applied to 2023-102
	POLICE DEPARTMENT	733,482.00	313,335.64	-	420,146.36	
	PUBLIC WORKS GENERAL FUND					
2010-111	FY11 WEST BAY BRIDGE REP	650,000.00	634,000.00	16,000.00	-	On-going work / outstanding invoices need to be paid
2013-114	FY14 WATER QUALITY EVALU	300,000.00	194,559.53	-	105,440.47	Project complete. Balance applied to 2023-104
2013-116	FY14 TOWN HALL INTERIOR	150,000.00	137,853.37	2,780.00	9,366.63	Plans for corridor improvements are in process
2014-111	FY15 VETERANS' PARK PLAN	50,000.00	40,256.85	79.10	9,664.05	Designer contract on-going
2014-119	FY15 TOWN FACILITIES SEC	100,000.00	96,721.30	3,278.70	-	Project is under construction
2015-101	FY16 TOWN HALL IMPROVEME	939,000.00	106,067.34	46,320.00	786,612.66	Construction Documents for heating system conversion are in process
2015-103	FY16 JFK MEMORIAL RESTOR	87,000.00	55,721.60	29,600.00	1,678.40	Project is in design
2016-112	FY17 OSTERVILLE BAY ELM	900,444.00	632,776.60	77,322.50	190,344.90	Recreation building demolition drawings are in process
2017-069	TOWN HALL RESTROOM RENOV	1,260,220.47	1,196,585.51	44,690.16	18,944.80	Project punch list items are being completed
2017-074	FY18 SIDEWALK/GUARDRAIL	314,000.00	312,354.60	1,645.40	0.00	Work on-going
2017-075	SHOOTING RANGE ASSESMEN	350,000.00	21,549.75	12,871.11	315,579.14	Work on-going with State EEA
2017-086	OSTERVILLE REC BLDG DESI	675,000.00	382,832.02	232,138.00	60,029.98	Smaller Bath House building is in design
2018-055	MILL POND DREDGING	250,000.00	151,735.49	65,459.76	32,804.75	Work on-going
2018-063	ARMORY BLDG EVAL/DESIGN	200,175.00	183,273.57	16,901.43	-	Project is under construction
2018-075	CRAIGVILLE BATHHOUSE IMP	315,116.00	103,463.57	-	211,652.43	Project is in design
2018-076	SENIOR CTR RENOVATIONS	727,247.00	265,008.54	424,903.57	37,334.89	Project is under construction
2018-077	HYCC ROOF REPLACEMENT	195,668.00	188,941.81	6,726.19	-	Project is under construction
2018-089	FY19 PUBLIC ROADS IMPROV	3,412,500.00	3,368,761.18	43,738.82	(0.00)	Remaining encumbered funds will be utilized
2018-090	DESIGN PHASE III DPW OFF	103,500.00	24,000.00	79,500.00	-	Project is in design
2018-092	SAB MECHANICAL UPGRADES	285,000.00	250,607.10	5,520.00	28,872.90	Project is under construction
2018-093	BUMPS RIVER BRIDGE REPAI	100,000.00	88,344.09	11,611.74	44.17	Additional engineering required to review recent MassDOT inspection

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
2018-095	OCEAN ST SIDEWALK DESIGN	45,000.00	29,042.15	15,957.85	-	Work on-going
2018-096	ARMORY BLDG-HAZMAT REMOV	667,000.00	505,118.32	154,781.07	7,100.61	Phase 1 hazmat is complete. Phase 2 is in design
2019-046	BLISH POINT-STORM DAMAGE	120,000.00	101,500.00	-	18,500.00	Work on-going
2019-116	CRAIGVILLE BATH HOUSE/PR	415,000.00	167,432.82	15,550.00	232,017.18	Project is in design
2019-117	MARSTONS MILLS TENNIS CO	620,000.00	571,911.93	4,416.21	43,671.86	Project improvements continue to be made
2019-119	FY20 CHANNEL DREDGING	1,730,000.00	1,717,000.39	14,871.27	(1,871.66)	Work on-going
2019-121	FY20 PUBLIC ROADS PROGRA	3,450,000.00	3,433,051.54	16,948.46	(0.00)	Remaining encumbered funds will be utilized
2019-123	BEARSES WAY BIKE PATH DE	125,000.00	845.61	2,000.00	122,154.39	Work on-going
2019-124	BUMPS RIVER BRIDGE REPAI	900,000.00	774,760.41	-	125,239.59	Additional minor improvements may be required based on recent MassDOT inspection
2019-125	FY20 SIDEWALK/GUARDRAIL	314,000.00	310,748.92	3,251.08	0.00	Remaining encumbered funds will be utilized
2019-126	MAIN ST HY TREE LIGHTING	114,000.00	97,450.07	4,515.00	12,034.93	Continue to use these funds for seasonal lighting replacement
2019-127	STORM SEWER MS4 PROGRAM	150,000.00	64,155.61	49,402.23	36,442.16	Work on-going
2019-128	CROSSWALK IMPROVMT	300,000.00	24,809.91	150.00	275,040.09	Project is in design
2019-129	TOWN HALL SECURITY IMPRO	480,000.00	117,513.01	7,210.34	355,276.65	Project is under construction
2019-146	OSTERVILLE FIELD CONST	797,000.00	744,820.34	26,434.79	25,744.87	Project is under construction
2019-147	COMMERCE RD IMPROV DESIG	300,000.00	203,487.55	95,252.45	1,260.00	Project is under construction
2019-148	SCHOOL ADMIN BLDG IMPROV	1,100,000.00	950,000.09	145,335.54	4,664.37	Project is under construction
2019-150	COTUIT TOWN DOCK	75,000.00	16,430.00	-	58,570.00	Apply remaining funds to 2023-081
2020-002	CONSTRUCTION OF ROADWAY	275,000.00	-	-	275,000.00	Work on-going
2020-015	PAINÉ BLACK HOUSE RESTOR	242,822.00	10,000.00	-	232,822.00	Project is in design. Bidding soon
2020-108	FY21 CHANNEL DREDGING PR	2,055,000.00	1,278,684.31	214,494.10	561,821.59	Work on-going
2020-109	FY21 PUBLIC ROADS PROGRA	3,550,000.00	3,536,701.66	13,280.00	18.34	Remaining encumbered funds will be utilized
2021-102	FY22 CHANNEL DREDGING	1,550,000.00	-	-	1,550,000.00	Work on-going
2021-113	MM SCHOOL DEMOLITION	995,096.00	79,200.00	74,800.00	841,096.00	Project is in design
2021-114	TOWN HALL MECHANICAL IMP	1,908,596.00	30,287.53	234,477.78	1,643,830.69	Project is in design
2021-098	POLICE FACILITIES IMPROV	806,432.00	15,000.00	130,200.00	661,232.00	Project is in design
2021-099	POLICE SECURITY FENCE	340,032.00	126,220.30	22,853.00	190,958.70	Work on-going
2021-105	MEA FACILITY IMPROVEMEN	120,960.00	-	-	120,960.00	Project is in design
2021-107	TOWN REC FIELD IMPROVEME	155,000.00	1,400.00	-	153,600.00	Project is in design
2021-108	FY22 PUBLIC ROADS MAINTÉ	3,650,000.00	2,964,408.23	444,722.93	240,868.84	Work on-going
2021-109	FRESHWATER PONDS MONITOR	165,000.00	93,812.18	45,189.10	25,998.72	Work on-going
2021-110	STORMWATER IMPROVEMENTS	325,000.00	250,355.11	74,644.89	-	Work on-going
2021-111	FY22 PUBLIC BRIDGE MAINT	500,000.00	164,139.04	126,409.03	209,451.93	Work on-going
2021-112	EMERGENCY GENERATOR	615,250.00	95,530.22	147,550.00	372,169.78	Project is in design
2021-115	CULVERT IMPROVEMENTS	245,000.00	-	-	245,000.00	Project planning on-going
2021-116	SIDEWALKS OCEAN STREET	50,000.00	6,154.97	16,542.15	27,302.88	Project on-going
2021-117	KALMUS BEACH PARKING LOT	50,000.00	-	-	50,000.00	Work on-going
2021-184	SNOW'S CREEK CULVERT REP	150,000.00	62,148.30	87,851.70	-	Work on-going
2022-115	MEA FACILITY IMPROVEMENT	289,604.00	-	-	289,604.00	Project is in design
2022-119	TOWN WIDE BULKHEAD ASSES	150,000.00	-	-	150,000.00	Contract to be signed imminently
2022-140	BLISH POINT DUNE STORM D	295,000.00	61,055.00	49,950.00	183,995.00	Work on-going

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
2022-039	SURVEY WORK FOR PROPOSED	39,600.00	36,000.00	-	3,600.00	Work on-going
2022-100	FY23 PUBLIC ROADS MAINTEN	3,750,000.00	461,419.84	838,466.04	2,450,114.12	Work on-going
2022-101	FY23 FRESHWATER POND MON	136,400.00	-	125,133.00	11,267.00	Work on-going
2022-102	FY23 STORMWATER IMPROVEM	350,000.00	-	-	350,000.00	Work on-going
2022-103	OCEAN STREET SIDEWALKS/K	2,950,000.00	-	-	2,950,000.00	Work on-going
2022-104	PUBLIC WORKS OFFICE EXPA	283,989.00	-	81,600.00	202,389.00	Project is in design
2022-105	SNOWS CREEK CULVERT REPL	1,400,000.00	-	-	1,400,000.00	Work on-going
2022-106	EMERGENCY GENERATOR PLAN	431,313.00	-	-	431,313.00	Project is in design
2022-107	TOWN HALL MECHANICAL IMP	2,025,852.00	10,000.00	-	2,015,852.00	Project is in design
2022-108	SAB MECHANICAL COOLING U	1,906,100.00	10,000.00	-	1,896,100.00	Project is in design
2022-109	CAPE COD AIRFIELD TANK	231,000.00	-	-	231,000.00	Work has not started yet - Pending
2022-110	FY23 POLICE FACILITY IMP	1,167,321.00	20,021.26	130,678.74	1,016,621.00	Project is in design
2022-112	CENTERVILLE RECREATION S	827,376.00	10,000.00	-	817,376.00	Project is in design
2022-113	HATHAWAY'S POND BATHHOU	450,000.00	20,000.00	-	430,000.00	Project is in design
2022-114	KEYES MEMORIAL PARKING L	290,000.00	-	-	290,000.00	Plan to bid this winter
2022-116	LONG POND FISHWAY DESIGN	112,000.00	-	-	112,000.00	Work on-going
2022-117	MCCARTHY'S LANDING DOCK	65,000.00	-	-	65,000.00	Project design is under contract
2022-118	MILL POND FISHWAY DESIGN	120,000.00	-	-	120,000.00	Work on-going
2022-148	COMMERCE RD SIDEWALK	75,000.00	-	75,000.00	-	Work on-going
2022-158	FLEET MAINT GARAGE IMPRO	185,000.00	24,792.80	-	160,207.20	In progress, in house development of IFB
2023-024	OLD SHORE RD-STORMWATER	75,000.00	-	-	75,000.00	Work on-going
2023-025	SHUBAEL POND-STORMWATER	145,000.00	-	-	145,000.00	Work on-going
2023-026	ALUM TREATMENT-SHUBAEL P	95,000.00	-	-	95,000.00	Work on-going
	PUBLIC WORKS DEPARTMENT	58,661,613.47	27,632,823.24	4,611,005.23	26,417,785.00	
	MEA GENERAL FUND					
2014-108	FY15 MARSTONS MILLS FISH	943,500.00	81,250.38	37,891.10	824,358.52	Work on-going
2021-103	PATROL VESSEL REPLACEMEN	310,000.00	308,597.76	1,100.00	302.24	Project complete
2021-104	SCUDDER'S LANE BOAT RAMP	150,000.00	44,172.37	84,140.59	21,687.04	Work on-going
	MARINE & ENVIRONMENTAL AFFA	1,403,500.00	434,020.51	123,131.69	846,347.80	
	SCHOOL					
2017-066	BPS ASBESTOS ABATEMENT	300,000.00	107,871.26	69,883.25	122,245.49	Work on-going
2019-093	PHASE 2 FIELD IMPROVEMEN	250,000.00	109,569.28	-	140,430.72	Work on-going
2019-098	BHS/BIS ROOF TOP VENTILA	1,500,000.00	1,347,340.79	36,400.00	116,259.21	Work on-going
2019-100	SCHOOL FACILITIES ASSMT	150,000.00	46,128.28	103,871.72	-	Work on-going
2019-101	HYANNIS WEST ROOF REPLAC	450,000.00	8,450.50	-	441,549.50	Budget insufficient - apply to 2023-120
2019-102	CENTERVILLE ROOF REPLACE	250,000.00	10,394.45	-	239,605.55	Budget insufficient - apply to 2023-121
2021-084	BHS/BIS ROOFTOP VENTILAT	3,752,550.00	186,621.68	1,709,550.00	1,856,378.32	Work on-going
2021-086	BHS TURF REPLACEMENT/TRA	1,423,500.00	671,390.54	587,250.85	164,858.61	Work on-going
2022-121	BHS/BIS ROOFTOP VENTILAT	4,156,984.00	-	-	4,156,984.00	Work on-going
2022-122	BPS DOOR/WINDOW REPLACEM	1,000,000.00	14,885.00	30,832.00	954,283.00	Work on-going
2022-123	BPS GENERATORS-VARIOUS	650,000.00	45,000.00	20,000.00	585,000.00	Work on-going

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
2022-124	BHS TENNIS COURT REPLACE	1,622,000.00	-	140,500.00	1,481,500.00	Work on-going
2022-125	FACILITIES FUEL PUMP/VEH	60,000.00	40,497.25	-	19,502.75	Work on-going
2022-126	BPS CAMPUS WIDE PAVING/S	350,000.00	-	-	350,000.00	Work on-going
2022-127	BPS MECHANICAL UPGRADES	250,000.00	12,364.13	75,522.67	162,113.20	Work on-going
2022-128	BPS FLOOR REPLACEMENT	100,000.00	1,100.00	-	98,900.00	Work on-going
2022-129	ELECTRIC UTILITY TRANSFO	300,000.00	-	10,000.00	290,000.00	Work on-going
	SCHOOL DEPARTMENT	16,565,034.00	2,601,613.16	2,783,810.49	11,179,610.35	
	AIRPORT					
2014-090	TERMINAL & BLDG IMPROVEM	99,000.00	8,830.00	-	90,170.00	Funds to be used for HVAC Improvements
2017-094	RUNWAY/TAXIWAY MARKING P	75,000.00	58,173.12	14,812.10	2,014.78	To be used FY2023 for additional markings needed per FAA
2019-103	AIRCRAFT RESCUE & FIREFI	432,700.00	419,394.16	7,300.00	6,005.84	Waiting for scheduling of the vehicle install kit with E-ONE.
2019-109	ACCESS RD EAST SIDE IMPR	1,000,000.00	-	-	1,000,000.00	Keep open as Mary Dunn Way is not yet closed out
2020-097	ENVIRONMENTAL REVIEW	1,150,000.00	212,523.18	812,807.12	124,669.70	Project Start = March 2022, Project Completion = December 2025.
2020-172	FIXED BASE OPERATIONS	172,938.00	7,944.50	-	164,993.50	Keep open as FBO project now underway
2021-087	REPLACE RUNWAY 6-24 EMAS	7,500,000.00	2,532,893.58	3,924,815.02	1,042,291.40	Project Start = March 2023, Project Completion = November 2023
2021-088	RUNWAY 6-24 RECONSTRUCT	19,052,000.00	730,204.51	17,732,565.00	589,230.49	Project Start = March 2023, Project Completion = November 2023
2021-090	REPLACE SRE EQUIPMENT #3	57,000.00	-	-	57,000.00	Project Start = January 2023, Project Completion = June 2023
2021-093	REPLACE SRE EQUIPMENT #3	115,000.00	-	-	115,000.00	Keep Open - Project moved to FY2024
2021-094	REPLACE AIRFIELD MOWING	165,000.00	-	-	165,000.00	Project Start = January 2023, Project Completion = June 2023
2021-095	REPLACE SRE EQUIP #27	115,000.00	-	-	115,000.00	Keep Open - Project moved to FY2024
2022-130	ARFF EQUIPMENT REPLACEME	978,000.00	-	-	978,000.00	Project Start = January 2023, Project Completion = June 2024
2022-131	PFOS MITIGATION PHASE IV	105,000.00	84,581.89	20,418.11	-	Project Start = July 2022, Project Completion = June 2023
2022-132	PFAS MITIGATION DESIGN	1,004,000.00	-	-	1,004,000.00	Project Start = January 2023, Project Completion = June 2023
2022-133	MO-GAS/DIESEL FUEL CON-V	1,200,000.00	-	-	1,200,000.00	Project Start = January 2023, Project Completion = June 2024
	AIRPORT ENTERPRISE	33,220,638.00	4,054,544.94	22,512,717.35	6,653,375.71	
	GOLF ENTERPRISE					
2019-118	HY GOLF CART PATH IMPROV	446,000.00	116,362.50	263,093.50	66,544.00	Work on-going
2021-096	OBF REPLACE TURF EQUIPME	545,179.00	535,843.36	-	9,335.64	Apply remaining funds to 2023-109
2022-137	GOLF REMEDIATING/INFRAST	68,000.00	40,777.91	4,536.98	22,685.11	Work on-going
2023-058	UTILITY TRACTOR-HGC	45,000.00	-	45,000.00	-	Work on-going
	GOLF ENTERPRISE	1,104,179.00	692,983.77	312,630.48	98,564.75	
	SOLID WASTE ENTERPRISE					
2019-140	ALL TERRAIN/KUBOTA REPLA	80,000.00	65,319.00	-	14,681.00	Complete. Apply balance to 2023-082
2020-125	WEIGH SCALE REPLACEMENT	108,490.00	100,000.00	-	8,490.00	Complete. Apply balance to 2023-083
2021-118	ROLL OFF TRUCK REPLACEME	210,000.00	-	196,920.00	13,080.00	Active, due to complete 1/23/2023
2022-097	CONTAINER UNIT REPLACEME	50,000.00	33,403.00	-	16,597.00	Active
2022-098	GENERATOR REPLACEMENT	130,000.00	-	-	130,000.00	Project is in design
2022-099	TRANSFER STATION MAINT B	242,347.00	-	-	242,347.00	Project is in design
	SOLID WASTE ENTERPRISE	820,837.00	198,722.00	196,920.00	425,195.00	

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
	SEWER ENTERPRISE					
2018-079	EFFLUENT DISCHARGE LOCAT	150,000.00	113,303.11	36,526.09	170.80	Work on-going
2019-131	SEWER SYSTEM EVAL SURVEY	380,000.00	256,386.57	76,200.00	47,413.43	Work on-going
2019-132	RENDEVOUS LANE PUMP STAT	1,160,000.00	1,021,874.56	3,411.45	134,713.99	Project complete. Apply balance to 2023-085
2019-133	BEARSE'S WAY VACUUM SEWE	1,125,000.00	5,443.32	-	1,119,556.68	Project is ongoing, awaiting MassDOT final design
2020-175	FY21 PUMP STATION REHAB	1,502,803.66	575,698.73	888,704.92	38,400.01	Work on-going
2021-009	WPC SOLIDS HANDLING PROJ	11,350,000.00	4,566,534.37	6,337,751.63	445,714.00	Work on-going
2021-037	DENITRIFICATION EVAL AT	200,000.00	89,856.20	4,725.00	105,418.80	Work on-going
2021-123	WPC FACILITY STUDY	250,000.00	61,518.32	98,481.68	90,000.00	Work on-going
2021-124	PUMP STATION REHAB	2,795,000.00	54,502.70	2,620,217.30	120,280.00	Work on-going
2021-125	720 MAIN ST PUMP STATION	365,000.00	1,288.16	20,100.00	343,611.84	Work on-going
2021-127	WPC FACILITY SECURITY SY	75,000.00	-	-	75,000.00	Planning phase
2022-086	PUMP STATION REHAB	2,860,000.00	-	-	2,860,000.00	Design Phase
2022-087	720 MAIN ST PUMP STATION	11,000,000.00	-	-	11,000,000.00	Design Phase
2022-088	WPC FACILITY IMPROVMTS	330,000.00	6,500.00	-	323,500.00	Design Phase
2022-089	SEWER SYSTEM REHAB INFIL	760,000.00	-	-	760,000.00	Design Phase
2022-090	CRANE TRUCK REPLACEMENT	165,000.00	-	159,066.00	5,934.00	Ordered, awaiting delivery
2022-091	TRUCK REPLACEMENT	70,000.00	-	70,000.00	-	Ordered, awaiting delivery
	SEWER ENTERPRISE	34,537,803.66	6,752,906.04	10,315,184.07	17,469,713.55	
	CWMP					
2018-086	LONG POND SWR EXPANSION	402,000.00	306,791.27	-	95,208.73	Work on-going
2018-087	PHINNEY'S SWR EXPANSION	315,000.00	96,059.85	75,084.75	143,855.40	Work on-going
2019-068	JBCC FEASIBILITY STUDY	250,000.00	112,671.38	107,328.62	30,000.00	Work on-going
2019-069	ROADWAY DESIGN/UTILITY W	735,000.00	568,559.10	132,412.86	34,028.04	Work on-going
2019-071	COTUIT-DESIGN SWR EXPANS	250,000.00	-	-	250,000.00	Work on-going
2019-143	LONG POND SEWER EXP DESI	938,000.00	-	-	938,000.00	Project in development
2019-145	PHINNEY'S LANE SEWER EXP	735,000.00	-	-	735,000.00	Project in development, expect RFP in spring
2019-144	MM RIVER TREATMENT SYSTE	612,000.00	19,580.52	-	592,419.48	Work on-going
2019-213	SEWER INFRASTRUCTURE CON	13,275,023.00	7,722,434.11	3,739,416.31	1,813,172.58	Project under construction
2020-002	CONSTRUCTION OF ROADWAY	1,775,000.00	-	-	1,775,000.00	Project under construction
2020-030	RTE 28 EAST SEWER EXP/PU	800,000.00	789,345.44	1,253.20	9,401.36	Need to close out scope/invoices
2021-180	RT 28 EAST SEWER EXPANSI	22,000,000.00	4,148,803.91	14,115,759.18	3,735,436.91	Project under construction
2022-044	VINEYARD WIND 2 ROUTE SE	2,750,000.00	13,258.56	1,437,419.44	1,299,322.00	Work on-going
2022-045	ROUTE 28WEST SEWER EXPAN	3,500,000.00	142.12	1,460,000.00	2,039,857.88	Work on-going
2022-081	EFFLUENT DISPOSAL ALTERN	1,000,000.00	-	-	1,000,000.00	Contract expected 1st quarter
2022-082	CRAIGVILLE RD SWR EXPAN	600,000.00	-	-	600,000.00	RFP on streets
2022-083	SHOOTFLYING HILL SWR EXP	375,000.00	-	-	375,000.00	RFP on streets
2022-084	OLD YARMOUTH RD SWR EXP	275,000.00	-	269.50	274,730.50	RFP on streets
2022-085	NITROGEN REMOVAL @WPC FA	3,000,000.00	-	-	3,000,000.00	RFP in development
2023-052	HEADWORKS IMPROVEMENT PR	2,850,000.00	-	-	2,850,000.00	RFP in development
	COMPREHENSIVE WW MGT	56,437,023.00	13,777,646.26	21,068,943.86	21,590,432.88	

COUNCIL ORDER #	PROJECT DESCRIPTION	APPROPRIATION	EXPENDED	ENCUMBERED	BALANCE	STATUS OF PROJECT
WATER ENTERPRISE						
2013-087	WELL EXPLORATION PROGRAM	489,500.00	323,435.36	166,064.64	-	Work on-going
2014-073	NEW WELL EXPLORATION 201	583,000.00	238,795.30	344,204.70	-	Work on-going
2017-080	WELL REACTIVATION PROJEC	295,000.00	147,400.58	-	147,599.42	Project complete. Apply balance to 2023-096
2017-099	MAHER CARBON TREATMENT S	10,925,000.00	10,845,288.77	45,645.25	34,065.98	Work on-going
2018-081	FY19 PIPE REPLACEMENT	1,050,000.00	1,048,721.44	-	1,278.56	Work on-going
2018-083	NEW WELL EXPLORATION	555,000.00	256,389.29	95,955.12	202,655.59	Work on-going
2019-059	MARY DUNN WELL #4 REACTI	571,000.00	209,710.00	-	361,290.00	Work on-going
2019-069	ROADWAY DESIGN/UTILITY W	100,000.00	35,375.00	2,440.00	62,185.00	Work on-going
2019-135	FY20 PIPE REPLACEMENT UP	1,050,000.00	946,274.94	24,373.33	79,351.73	Work on-going
2019-137	VALVE MAINT TRAILER SYST	75,000.00	-	-	75,000.00	Work on-going
2019-212	PHINNEY'S LANE WATER INF	1,000,000.00	471,065.34	528,934.66	-	Work on-going
2020-120	FY21 PIPE REPLACEMT/UPGR	750,000.00	120,000.00	412,382.70	217,617.30	Work on-going
2020-122	AIRPORT/MARY DUNN WELL S	300,000.00	71,229.40	170,632.60	58,138.00	Work on-going
2020-123	HYANNIS PORT, SIMMONS PO	350,000.00	344,843.90	640.50	4,515.60	Work on-going
2021-119	FY22 PIPE REPLACEMENT UP	1,050,000.00	265,370.81	715,234.31	69,394.88	Work on-going
2021-121	WELLS, PUMP STATION UGRA	200,000.00	112,617.08	46,383.72	40,999.20	Work on-going
2022-092	FY23 PIPE REPLACEMENT &	1,050,000.00	746.16	-	1,049,253.84	Work on-going
2022-093	STRAIGHTWAY FILTRATION P	1,000,000.00	-	-	1,000,000.00	Work on-going
2022-094	OCEAN ST WATER MAIN CONS	480,000.00	-	-	480,000.00	Work on-going
2022-095	WELLS, PUMP STATION UPGR	200,000.00	-	-	200,000.00	Work on-going
2022-096	MARY DUNN 1 TANK REPAINT	65,000.00	-	250.25	64,749.75	Work on-going
2023-035	LEAD SERVICE LINE INVENT	400,000.00	-	-	400,000.00	Work on-going
	WATER SUPPLY ENTERPRISE	22,538,500.00	15,437,263.37	2,553,141.78	4,548,094.85	
MARINA ENTERPRISE						
2015-109	RECONSTRUCT PRINCE COVE	570,000.00	546,878.85	-	23,121.15	Complete. Apply balance to 2023-074
2015-110	HYANNIS HARBOR BULKHEAD-	158,000.00	86,117.83	71,882.17	-	Work on-going
2016-109	GATEWAY MARINA DREDGING	500,000.00	443,999.80	-	56,000.20	Complete. Apply balance to 2023-074
2021-101	DESIGN BISMORE PARK BULK	375,000.00	2,218.01	82,637.83	290,144.16	Work on-going
	MARINA ENTERPRISE	1,603,000.00	1,079,214.49	154,520.00	369,265.51	
SANDY NECK ENTERPRISE						
2019-120	GATEHOUSE & TRAIL IMPROV	60,000.00	14,938.46	45,061.54	-	Work on-going
2021-100	SANDY NECK PARKING LOT R	225,000.00	51,028.61	154,662.07	19,309.32	Work on-going
	SANDY NECK ENTERPRISE	285,000.00	65,967.07	199,723.61	19,309.32	
HYCC ENTERPRISE						
2019-115	HYCC ROOF/HVAC/SECURITY	589,944.48	388,134.17	61,436.31	140,374.00	Project is out to bid
2020-103	FY21 HYCC FACILITY IMPRO	756,000.00	755,379.64	620.36	(0.00)	Work on-going
2021-106	HYCC FACILITY IMPROVEMEN	1,644,600.00	167,568.05	29,832.86	1,447,199.09	Project is in design
2022-111	HYCC MECHANICALS IMPROV	1,770,000.00	26,222.50	8,312.50	1,735,465.00	Project is in design
	TOTAL HYCC ENTERPRISE	4,760,544.48	1,337,304.36	100,202.03	3,323,038.09	
	GRAND TOTALS	\$ 233,163,154.61	\$ 74,553,867.98	\$ 64,931,930.59	\$ 93,677,356.04	

Summary

Based on the review of active capital appropriations the following action will be recommended:

1. Town Council order 2021-097 for the Police Department radio replacements has a remaining available balance of \$373,320. A grant was received which paid for most of this project. The original funding source was the Capital Trust Fund reserves and the remaining balance will be transferred to fund the FY 2024 Department of Public Works Office Administration Building Expansion Project for \$400,000.
2. Town Council order 2013-114 for Water Quality Evaluation has a remaining available balance of \$105,440. The original funding source was a bond issue. The remaining unspent bond proceeds will be transferred to fund the FY 2024 Monitoring and Management Plan for Freshwater Ponds Project for \$270,000.
3. Town Council order 2019-150 for the Cotuit Town Dock has a remaining available balance of \$58,570. The original funding source was the Capital Trust Fund reserves and the remaining balance will be transferred to fund the FY 2024 Design and Permitting of the Cotuit Town Dock Improvements Project for \$100,000.
4. Town Council orders 2019-101 and 2019-102 for the Hyannis West and Centerville Elementary School roof projects have a remaining balance of \$441,549 and \$239,605, respectively. Both projects cannot be completed with the available funding and new requests will be brought forward after the school facility needs analysis has been completed. The original funding source for both projects was a bond issue. The remaining unspent bond proceeds will be transferred to fund the FY 2024 West Villages Elementary Carpet Removal project for \$750,000.
5. Town Council order 2021-096 for the replacement of equipment at Olde Barnstable Fairgrounds has a remaining available balance of \$9,335. The original funding source was a bond issue. The unspent bond proceeds will be transferred and used to the FY 2024 Hyannis Golf Course Turf Maintenance Equipment Replacement Project for \$492,270.
6. Town Council orders 2019-140 for the replacement of an all-terrain Kubota and 2020-125 for the replacement of the weigh scale at the Solid Waste Facility have available balances of \$14,681 and \$8,490, respectively. These remaining funds will be transferred and used to fund the FY 2024 License Plate Reader Technology Project for \$50,000.
7. Town Council order 2019-132 for the Rendezvous Lane Pump Station project has a remaining available balance of \$134,713. The original funding source was a bond issue. The unexpended bond proceeds will be transferred and used for the FY 2024 Sewer Pump Station Rehabilitation Project for \$1,750,000.
8. Town Council order 2017-080 for the Well Reactivation Project has a remaining available balance of \$147,599. The original funding source was a bond issue. The unexpended bond proceeds will be transferred and used to fund the FY 2024 New Well Exploration Project for \$620,000.
9. Town Council order 2015-109 for reconstructing the Prince Cove Bulkhead and Town Council order 2016-109 for the Gateway Marina Dredging have a remaining available balance of \$23,121 and \$56,000, respectively. The original funding source for both projects was a bond issue. The remaining bond proceeds will be transferred and used to fund the FY 2024 Design of the Prince Cove Improvements Project for \$195,000.

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PART IV – FIVE YEAR FUNDING CAPACITY EVALUATION

A total of 160 projects amounting to \$670 million were submitted for requests over the next 5 years. This includes General Fund, Comprehensive Wastewater Management Plan (CWMP), and all Enterprise Funds. The town has several funding sources to finance its capital program: the Capital Trust Fund, which is used to finance General Fund capital, General Fund reserves, each individual Enterprise Fund, and two Stabilization Funds.

The Capital Trust Fund is a mechanism that allows the town to accumulate funds from various sources to finance its General Fund supported capital program. A transfer is made annually from the General Fund with a projected transfer for FY 2024 of \$13.1 million. This transfer will be part of the annual operating budget.

A funding tool was created several years ago to help the town finance the Comprehensive Wastewater Management Plan. Through special legislation, a Sewer Construction & Private Way Maintenance and Improvement Fund was created. The state legislature approved a home rule petition that allows the town to credit 100% of the local meals tax and 1/3 of the local room's tax on traditional lodging to this fund. The town may appropriate monies in the fund for planning, designing, and construction of sewers and other means of comprehensive wastewater management and maintenance and improvement of private ways. This will be used to fund a portion of the Comprehensive Wastewater Management Plan (CWMP). In addition, the state legislature recently implemented a law change that requires the room occupancy tax to be applied to short-term rental property. The town has dedicated 100% of this to a Stabilization Fund called the Comprehensive Management of Water and Wastewater, which supports the Comprehensive Wastewater Management Plan (CWMP) and the Water Supply capital program.

Most of the Enterprise Funds' capital improvements are financed by the respective enterprise fund operation through a combination of user fees and grant funding. The Hyannis Youth & Community Center (HYCC) is the exception because it is unable to cover the cost of operations and capital needs through its user fees. Furthermore, some future Enterprise Fund projects may require General Fund subsidies as the impact to user fees may be too significant due to the cost of the projects.

The schedules on the following pages illustrate the funding capacity of the Capital Trust Fund and the Sewer Construction & Private Way Maintenance and Improvement Fund. A limited amount of the projects that went through the evaluation process in the development of the FY 2024 proposed Capital Improvement Plan can be funded over the next five years. Town can anticipate funding \$80.5 million in General Fund capital projects through the Capital Trust Fund. This includes \$16.5 million for the Comprehensive Wastewater Management Plan. General Fund reserves and Community Preservation Fund resources will supplement the capital program depending upon the amounts available in the future as well as any grant opportunities that arise. The Town also receives around \$2 million annually under the state's Chapter 90 program which helps maintain and improve public road infrastructure.

The \$153 million submitted for enterprise funds will need to be financed through rates charged by those operations. Rates charged by the enterprise funds will need to be adjusted annually to provide the resources necessary to implement. The \$293 million of projects listed for the Comprehensive Wastewater Management Plan will need an infusion of new resources in order to implement them in the years indicated.

Sewer Construction & Private Way Maintenance and Improvement Fund Cash Flow Analysis

Chapter 355 of the Acts of 2014 enacted by the General Court allows the Town of Barnstable to establish a Special Revenue Fund that may be used for planning, designing, and construction of sewers and other means of comprehensive wastewater management and maintenance and improvement of qualifying private ways.

Dedicated revenue sources for this fund include 100% of the local meals excise tax and one-third of the local rooms excise tax on traditional lodging. In addition, any or sewer assessments or road betterments to property abutters on sewer construction and private way improvements will be credited to this fund if the fund is used to finance the improvements.

Finally, the room occupancy tax now applies to short-term rentals and this revenue has been dedicated in a Stabilization fund for the comprehensive management of water and wastewater, which includes the Comprehensive Wastewater Management Plan.

Major Assumptions Used In Table A:

- Rooms and meals tax revenue will grow 1.5% per year;
- Earnings on investments will average 1%;
- A General Fund subsidy will be provided to fund the Comprehensive Wastewater Management Plan that grows to \$3,750,000 by FY 2027;
- Sewer assessments of \$10,000 will be applied to new sewer customers;
- Sewer assessments will be amortized over 30 years;
- Sewer assessments will begin to be collected one year after the project's completion;
- New sewer customers will be phased in over a 2 year period once project is complete;
- Interest rate on sewer assessments (4%) will be 2% higher than the Town's borrowing rate (2%);
- A portion of the user rate revenue collected from new customers will be directed towards the debt service for the new infrastructure;
- Project costs for FY 2024 to FY 2028 totaling \$293 million are included;
- Preliminary design costs will be financed with cash reserves;
- Principal subsidies on project costs are 13.3%;
- Loan amortization on bond issues will be 5 years for final design and 30 years for construction;
- The average interest rate on the bonds are estimated to be 2.4%;
- The bonds will be issued at a time so that the first loan payments will not be made until the following year, for example, the first payment on the FY 2024 bond issue will be in FY 2025;
- The Federal government will not make any changes and the tax advantages of municipal bonds will remain intact; and
- No other major changes will take place in the municipal bond market;
- Project management staff will increase over time as more infrastructure projects are implemented;

TABLE A – Estimated Comprehensive Wastewater Management Plan Cash Flow

COMPREHENSIVE WASTEWATER MANAGEMENT PLAN										
PROGRAM CASHFLOW PROJECTION										
Fiscal Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Beginning Balance	\$ 14,276,746	\$ 17,633,208	\$ 15,464,240	\$ 12,710,411	\$ 10,458,579	\$ 11,034,247	\$ 12,721,313	\$ 13,434,975	\$ 14,878,741	\$ 16,768,968
Resources:										
Rooms Tax on Traditional Lodging	1,137,677	1,154,743	1,172,064	1,189,645	1,207,489	1,225,602	1,243,986	1,262,645	1,281,585	1,300,809
Local Meals Tax	1,925,354	1,954,234	1,983,548	2,013,301	2,043,501	2,074,153	2,105,265	2,136,844	2,168,897	2,201,430
Short-term Rental Tax	1,755,536	1,781,869	1,808,597	1,835,726	1,863,262	1,891,211	1,919,579	1,948,373	1,977,598	2,007,262
General Fund Contribution (new growth)	750,000	1,500,000	2,250,000	3,000,000	3,750,000	3,750,000	3,750,000	3,750,000	3,750,000	3,750,000
Other	157,301	246,328	254,365	311,586	325,314	573,747	822,897	1,536,775	1,973,591	2,475,151
Debt exclusion (FY25 to FY27 Projects)	-	-	-	4,592,842	6,055,773	7,620,729	7,620,729	7,620,729	7,620,729	7,620,729
Total Resources	5,725,868	6,637,174	7,468,574	12,943,100	15,245,339	17,135,441	17,462,456	18,255,367	18,772,400	19,355,382
Commitments:										
Total Project Management	1,729,347	1,903,196	2,304,659	2,388,208	2,453,869	2,521,462	2,591,045	2,662,676	2,736,416	2,812,328
Existing Debt Service Payments	640,059	636,182	632,313	628,451	624,598	620,753	616,918	608,092	604,925	403,249
Authorized & Unissued Debt	-	3,616,765	3,616,765	3,616,765	3,616,765	3,616,765	3,616,765	3,616,765	3,616,765	3,616,765
Estimated Debt Service on FY24 CIP	-	-	1,068,666	1,068,666	1,068,666	1,068,666	1,068,666	1,068,666	1,068,666	1,068,666
Estimated Debt Service on FY25 CIP	-	-	-	4,592,842	4,592,842	4,592,842	4,592,842	4,592,842	4,592,842	4,592,842
Estimated Debt Service on FY26 CIP	-	-	-	-	1,462,931	1,462,931	1,462,931	1,462,931	1,462,931	1,462,931
Estimated Debt Service on FY27 CIP	-	-	-	-	-	1,564,956	1,564,956	1,564,956	1,564,956	1,564,956
Estimated Debt Service on FY28 CIP	-	-	-	-	-	-	1,234,672	1,234,672	1,234,672	1,234,672
Total Debt Service	640,059	4,252,946	5,317,743	9,906,724	11,365,802	12,926,913	14,157,750	14,148,924	14,145,757	13,944,081
Cash funded project expenses	-	2,650,000	2,600,000	2,900,000	850,000	-	-	-	-	-
Total Commitments	2,369,406	8,806,143	10,222,402	15,194,932	14,669,671	15,448,375	16,748,795	16,811,600	16,882,173	16,756,409
Excess Resources (Commitments)	3,356,462	(2,168,969)	(2,753,829)	(2,251,832)	575,668	1,687,066	713,661	1,443,766	1,890,227	2,598,973
Ending Balance	\$ 17,633,208	\$ 15,464,240	\$ 12,710,411	\$ 10,458,579	\$ 11,034,247	\$ 12,721,313	\$ 13,434,975	\$ 14,878,741	\$ 16,768,968	\$ 19,367,940

This table illustrates that the estimated debt service on the projects listed for the FY25 through FY27 capital plan will need to be excluded from the tax levy in order to keep the funding for this program positive. These amounts are highlighted in green in the table above. The debt service for the FY24 projects can be provided from existing resources and by FY29, it is estimated that revenue from sewer assessments will have grown to a level that will support the debt service on the FY28 projects.

Capital Trust Fund (CTF) Cash Flow Analysis

The Capital Trust Fund (CTF) is used as a mechanism to finance the Town's General Fund Capital Improvement Program within the limitations of Proposition 2½. Annually, the Town transfers a sum of money from the General Fund into the CTF. The resources within the CTF are then used to make the annual loan payments on the bonds issued to finance the Town's capital program. The loan payments are part of the General Fund operating budget. The CTF operates essentially as a debt service fund. Some of the Town's capital appropriations are financed using the reserves within the CTF as opposed to bond issues. Annually, the Town reviews the projected cash flow of the CTF for the prospective 10-year period in order to measure the capacity level of the fund.

For the most part, this fund is not the funding source for Enterprise Fund capital improvements. Most Enterprise Funds pay 100% of their capital cost, which is recovered through their respective user fees. However, Enterprise Fund capital improvements may be funded from the CTF, which is a policy decision. The two current exceptions are the bond issues for the construction of the Hyannis Youth & Community Center (HYCC) and Barnstable Harbor Marina bulkhead replacement. Although, some future projects cost for other Enterprise Funds may be too large and that the impact to the user fees becomes unmanageable, and thus a General Fund subsidy would be needed. An example would be the Bismore Park Bulkhead Improvements project and possibly the Sandy Neck Parking Lot and Gatehouse Relocation project.

The FY 2024 General Fund Capital Improvement Plan includes a combination of "pay-as-you-go" or cash financing and new bond issues. The cash-financing portion of the program is funded from the Capital Trust Fund reserves and balances remaining in appropriations from completed projects. This "pay-as-you-go" financing approach saves the Town thousands of dollars in the form of bond issuance and interest cost. It also provides flexibility within the budget because with just a debt service program, the CTF can become saturated with loan payments and prohibit the approval of any new projects until the debt service from other projects expire. This would also reduce the Town's flexibility in its resource allocation as future cash flows are committed to fixed annual loan payments.

In the event of absolute necessity, the cash portion of the program could be converted to a debt program to allow for a larger capital program up front. For example, the Town could allocate \$1 million in cash per year for capital improvements over ten years or allocate \$10 million towards a bond issue in the first year. A \$10 million bond issue could incur \$1.6 million in interest cost amortized over a period of 10-years. The \$1.6 million in interest cost is the opportunity cost that could have been used for existing project needs, but this is all based on available reserves.

Furthermore, the cash program portion, if reduced or eliminated, could decrease the annual contribution from the General Fund to the CTF, if the need for funding General Fund operations is determined to be greater than the need for capital expenditures. Countless scenarios can be created to allocate the annual cash flow of the CTF between cash and borrowing programs.

The annual contribution to the CTF has grown from \$7.4 to \$13.1 million over the last ten years. This amount is projected to increase by more than \$750,000 per year for the next five years in order to allocate more funds to the capital program. Even as more funds are allocated to the capital program, the Town's capital needs require a higher contribution level. Opportunities to increase this contribution are examined every year.

The table on the next page illustrates the CTF's capacity over the next ten years.

Major Assumptions Used In the Table:

- Investment earnings will average 2% per year;
- The base transfer from the General Fund will increase 2.5% per year;
- Transfer In \$750,000 of New Property Growth for five years with FY27 the last year
- Loan amortization on the FY 2024 proposed projects is \$996,000 over 15 years and \$4.3 million over 20 years;
- The net interest cost on the bonds are estimated to average 4.25%;
- The FY 2024 bonds will be issued at a time so that the first loan payments will not be made until FY 2025;
- FY 2025 through FY 2027 include \$10 million of new bond issues every year;
- There are no estimated savings from bond refinancing included in the projection;
- The Federal government will not make any changes and the tax advantages of municipal bonds will remain intact;
- No other major changes will take place in the municipal bond market; and
- The cash funded portion of the capital program will average total \$7.3 million per year.

Estimated Capital Trust Fund Cash Flow FY 2024 – FY 2033

		ESTIMATED CAPITAL TRUST FUND CASH FLOW									
		FY2024	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030	FY2031	FY2032	FY2033
1	Beginning Trust Fund Balance	\$ 13,184,556	\$ 11,070,383	\$ 9,775,107	\$ 7,963,998	\$ 6,798,034	\$ 5,902,378	\$ 4,934,183	\$ 4,715,683	\$ 5,506,261	\$ 7,297,924
Resources:											
2	Investment Earnings	263,691	221,408	195,502	159,280	135,961	118,048	98,684	94,314	110,125	145,958
3	Transfer From General Fund	13,120,692	14,198,709	15,303,677	16,436,269	16,847,176	17,268,355	17,700,064	18,142,566	18,596,130	19,061,033
4	Total Current Year Resources	13,384,383	14,420,117	15,499,179	16,595,549	16,983,137	17,386,403	17,798,748	18,236,880	18,706,255	19,206,991
Commitments:											
5	Existing Debt Service	(7,399,195)	(6,410,955)	(6,116,020)	(5,458,415)	(4,497,865)	(3,926,840)	(3,773,659)	(3,486,884)	(3,232,344)	(2,919,444)
6	Authorized Unissued Debt Prior Years CIP (\$21.8m)	(2,099,361)	(2,050,972)	(2,002,584)	(1,954,195)	(1,905,807)	(1,857,418)	(1,809,030)	(1,760,641)	(1,712,253)	(1,663,865)
7a	Estimated Debt Service on FY24 CIP (\$5.3 million)	-	(503,465)	(491,684)	(479,903)	(468,121)	(456,340)	(444,558)	(432,777)	(420,995)	(409,214)
7b	Estimated Debt Service on FY25 CIP (\$10 million)	-	-	(1,200,000)	(1,169,000)	(1,138,000)	(1,107,000)	(1,076,000)	(845,000)	(821,000)	(797,000)
7c	Estimated Debt Service on FY26 CIP (\$10 million)	-	-	-	(1,200,000)	(1,169,000)	(1,138,000)	(1,107,000)	(1,076,000)	(845,000)	(821,000)
7d	Estimated Debt Service on FY27 CIP (\$10 million)	-	-	-	-	(1,200,000)	(1,169,000)	(1,138,000)	(1,107,000)	(1,076,000)	(845,000)
7e	Estimated Debt Service on FY28 CIP (\$10 million)	-	-	-	-	-	(1,200,000)	(1,169,000)	(1,138,000)	(1,107,000)	(1,076,000)
8	Cash Program - CWMP	(2,250,000)	(3,000,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)
9	Cash Program (Public Roads)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,750,000)	(3,850,000)	(3,950,000)	(4,050,000)
10	Total Current Year Commitments (Debt & Cash)	(15,498,556)	(15,715,393)	(17,310,288)	(17,761,513)	(17,878,793)	(18,354,598)	(18,017,247)	(17,446,302)	(16,914,592)	(16,331,522)
11	Net Increase (Decrease) in Trust Fund Balance	(2,114,173)	(1,295,276)	(1,811,109)	(1,165,964)	(895,656)	(968,196)	(218,499)	790,578	1,791,663	2,875,469
12	Ending Trust Fund Balance	\$ 11,070,383	\$ 9,775,107	\$ 7,963,998	\$ 6,798,034	\$ 5,902,378	\$ 4,934,183	\$ 4,715,683	\$ 5,506,261	\$ 7,297,924	\$ 10,173,393
13	Commitments as a % of Available Resources (max = 80%)	58%	62%	68%	72%	75%	79%	79%	76%	70%	62%

This table illustrates the Capital Trust Fund’s (CTF) cash flow incorporating all existing loan payments on previously authorized projects (lines 5 and 6) and the recommended projects for FY 2024. Cash funded projects in FY24 total \$6 million (lines 8 and 9) and bond funded projects total \$5.3 million (line 7a). The bonds will be issued in FY24 and the first estimated loan payment of \$503,465 million is anticipated to be made in FY25. Lines 7b through 7e illustrate the estimated loan payments on a \$10 million bond issue for projects authorized in FY25 through FY28. The percentage of the trust fund’s current year resources that are committed in any year are less than the Administrative Code limit of 80% (line 13) indicating that the fund has the capacity to absorb \$45 million in new debt service over the next 5 years (\$5 million in FY24 and \$10 million for FY25 through FY28).

DEBT POSITION ANALYSIS

A. Type And Purpose Of Debt

The Town sells bonds to finance major capital improvements that require large cash outlays. General Obligation Bonds (G.O.B) have been sold to fund capital improvements managed by various municipal operations such as schools, public works, marine, recreation, conservation, and the Town's Enterprise Fund operations. General Obligation Bonds are supported by the full faith and credit of the Town and is repaid from property taxes collected from both current and future property owners throughout the term of the debt, except for the bonds issued to fund most capital improvements for Enterprise Fund operations. Although property taxes are pledged as collateral for Enterprise Funds, most of the GOB's are repaid with revenue generated by the Enterprise Funds and not property taxes. This arrangement provides for a more favorable borrowing rate on Enterprise Fund debt. Alternatively, Enterprise Funds would have to issue what are referred to as "Revenue Bonds", which would typically carry much higher interest rates because the collateral is Enterprise Fund revenue as opposed to property taxes.

Properly structured municipal debt is tax exempt. This feature is attractive to many investors who, in turn, require less interest than they would from non-tax-exempt investments. Typical rates for municipal bonds over the past several years have been in the 1.5% to 3% range. Rates have climbed as the economy is experiencing extraordinary inflation. The Federal Reserve has increased interest the federal funds target rate several times which translates into higher borrowing costs for all including the interest incurred on municipal bonds. However, when netted out against inflation, municipal borrowing costs, especially for strong credit worthy Towns such as Barnstable is desirable form of investment for many due to its income tax advantages.

The Town operates several Enterprise Funds that includes an airport, two golf courses, wastewater treatment facility, solid waste transfer station, water supply operations, four marinas, Sandy Neck Beach Park, the Hyannis Youth & Community Center, and the Public, Educational and Government Access channels. These funds are expected to repay their debt from the revenues they generate unless it is determined that a General Fund contribution is necessary to provide for some fee mitigation. In addition, the Town has borrowed on behalf of the Community Preservation Fund (CPF), which was created by general legislation to enable towns in the Commonwealth to acquire open space and to finance recreation, community housing, and historic preservation projects. The CPF, a special revenue fund, is funded with 3% surtax on each real estate tax bill. The Commonwealth provides a partial matching program for the surtax billed from a state trust account, which is funded by real estate transfer taxes. The matching program is expected to decline as more communities adopt the CPF.

B. Current Debt Position

As of June 30, 2022, the Town of Barnstable had total bonded debt outstanding of \$110.1 million. The Town issued \$11.475 million of long-term debt, of which \$8.37 million was for governmental activities and \$3.105 million was for business-type activities. The Town retired \$11.6 million of long-term debt.

Projected Debt Payments by Project and Fund

The following four tables set forth the projected General Obligation Bond (G.O.B.) payments by issue for both the Town's governmental funds and the enterprise funds. There are also several low-cost financing loans through the Massachusetts Clean Water Trust (MCWT) for sewer construction and water system improvements.

Bonds Payable Schedule – Governmental Funds (Excludes Enterprise Fund Debt)

	Maturities Through	Original Loan Amount	Interest Rate (%)	Outstanding at June 30, 2022
General Obligation Bonds Payable:				
Municipal Purpose Refunding of 2012	2023	\$10,037,900	2.00 - 4.00	\$ 799,500
Municipal Purpose Bonds of 2014	2024	6,248,000	2.00 - 3.00	1,005,000
Municipal Purpose Refunding of 2015	2027	5,265,500	2.00 - 4.50	1,749,000
Municipal Purpose Bonds of 2015	2035	3,089,000	2.00 - 4.50	1,905,000
Municipal Purpose Bonds of 2016	2036	12,113,000	2.00 - 4.00	7,635,000
Municipal Purpose Refunding of 2016	2028	1,674,000	2.00 - 4.00	466,000
Municipal Purpose Bonds of 2017	2037	5,105,700	3.00 - 4.00	2,950,000
Municipal Purpose Bonds of 2018	2038	6,380,000	3.00 - 5.00	5,920,000
Municipal Purpose Bonds of 2019	2039	8,266,800	3.00 - 5.00	6,335,000
Municipal Purpose Bonds of 2020	2040	8,049,100	2.00 - 5.00	6,980,000
Municipal Purpose Refunding of 2021	2031	2,529,450	4.00 - 5.00	1,733,500
Municipal Purpose Bonds of 2021	2041	4,315,100	2.00 - 5.00	4,000,000
Municipal Purpose Bonds 2022	2042	8,370,321	3.00 - 5.00	\$8,370,321
Subtotal Governmental General Obligation Bonds Payable				\$ 49,848,321
Direct Borrowings Payable:				
MCWT Title V Bond of 2002	2023	200,000	3.00 - 5.25	10,204
MCWT Title V Bonds of 2006	2026	400,000	0.00	80,000
MCWT Title V Bond of 2007	2027	200,000	0.00	50,000
Subtotal Governmental Direct Borrowings Payable				140,204
Special Assessment Bonds Payable:				
Roadway Improvement Bonds of 2021	2036	2,745,000	1.20 - 2.00	2,520,000
Total Bonds Payable				\$ 52,508,525
Add: Unamortized premium on bonds				3,692,115
Total Bonds Payable, net				\$ 56,200,640

Debt service requirements for principal and interest for **Governmental Bonds Payable** in future fiscal years are as follows:

Year	General Obligation Bonds Payable			Year	Direct Borrowings Payable		
	Principal	Interest	Total		Principal	Interest	Total
2023	6,071,321	1,881,107	7,952,428	2023	40,204	255	\$40,459
2024	4,959,000	1,643,134	6,602,134	2024	30,000	0	\$30,000
2025	4,210,500	1,431,010	5,641,510	2025	30,000	0	\$30,000
2026	3,881,500	1,237,930	5,119,430	2026	30,000	0	\$30,000
2027	3,407,000	1,067,766	4,474,766	2027	10,000	0	\$10,000
2028	3,116,000	922,283	4,038,283	Total	\$ 140,204	\$ 255	\$ 140,459
2029	3,001,500	786,464	3,787,964				
2030	2,978,000	660,756	3,638,756				
2031	2,728,500	537,256	3,265,756				
2032	2,580,000	443,414	3,023,414				
2033	2,355,000	361,212	2,716,212				

2034	2,280,000	289,520	2,569,520
2035	1,970,000	226,656	2,196,656
2036	1,705,000	173,094	1,878,094
2037	1,225,000	125,630	1,350,630
2038	1,100,000	91,184	1,191,184
2039	820,000	60,728	880,728
2040	690,000	39,070	729,070
2041	460,000	21,600	481,600
2042	310,000	9,300	319,300
Total	\$ 49,848,321	\$ 12,009,114	\$ 61,857,435

On February 9, 2021, the Town issued \$2,745,000 in taxable bonds for private road betterments, which are due to mature in 2036. The Commonwealth approved Special Legislation to allow the Town to issue special assessment debt for the repair of private roads. The Town has assessed betterments to the property owners who abut on the improved roadways. Betterment collections are used to pay the debt service associated with the special assessment debt. The Town is liable to pay the debt service costs regardless of whether the assessment payments are made by the property owners. The betterment is secured via the lien process and payment would be made upon transfer of the property if a balance were outstanding. As of June 30, 2021, there are no delinquent receivables.

Year	Special Assessment Bonds Payable		
	Principal	Interest	Total
2023	\$ 235,000	\$ 45,620	\$ 280,620
2024	230,000	40,930	270,930
2025	225,000	36,320	261,320
2026	225,000	31,830	256,830
2027	220,000	27,320	247,320
2028	215,000	22,930	237,930
2029	210,000	18,620	228,620
2030	205,000	14,430	219,430
2031	200,000	10,320	210,320
2032	195,000	7,930	202,930
2033	185,000	5,390	190,390
2034	80,000	2,800	82,800
2035	50,000	1,520	51,520
2036	45,000	720	45,720
Total	\$ 2,520,000	\$ 266,680	\$ 2,786,680

Bonds Payable Schedule – Enterprise Funds

	Maturities	Original	Interest	Outstanding
General Obligation Bonds Payable:	Through	Loan	Rate	at June 30,
		Amount	(%)	2020
Airport Enterprise Fund	2039	\$ 2,118,900	3.00 – 5.00	\$ 1,725,000
Golf Course Enterprise Fund	2037	3,580,379	2.00 - 5.00	1,852,179
Add: unamortized premium				37,505
Total Golf Course Enterprise Fund Bonds Payable, net				\$ 1,889,684
Solid Waste Enterprise Fund	2027	526,400	2.00 - 4.50	\$ 160,500
Wastewater Enterprise Fund	2041	6,459,200	2.00 - 5.00	\$ 5,190,500
Water Supply Enterprise Fund	2042	15,606,700	2.00 - 5.00	11,204,000
Add: unamortized premium				246,592
Total Water Supply Bonds Enterprise Fund Payable, net				\$ 11,450,592
Marina Enterprise Fund	2037	2,890,250	2.00 - 5.00	1,571,500
Add: unamortized premium				116,956
Total Marina Enterprise Fund Bonds Payable, net				\$ 1,688,456
Sandy Neck Enterprise Fund	2031	595,200	4.00 – 5.00	539,000
Add: unamortized premium				103,489
Total Sandy Neck Enterprise Fund Bonds Payable, net				\$ 642,489
Hyannis Youth and Community Center	2042	11,860,700	2.00 – 5.00	7,164,000
Add: unamortized premium				442,424
Total Hyannis Youth and Community Center Bonds Payable, net				\$ 7,606,434
Subtotal Enterprise Funds General Obligation Bonds Payable, net				\$ 30,353,645
Direct Borrowings Payable:				
Wastewater - MCWT	2033	19,391,750	0.00 - 2.00	7,721,025
Water Supply - MCWT	2046	24,431,223	2.00	19,527,647
Subtotal Enterprise Funds Direct Borrowings Payable				27,248,672
Total Bonds Payable, net				\$ 57,602,317

Debt service requirements for principal and interest for **Enterprise Bonds Payable** in future fiscal years are as follows:

General Obligation Bonds Payable				Direct Borrowings Payable			
Year	Principal	Interest	Total	Year	Principal	Interest	Total
2023	3,468,679	1,074,412	4,543,091	2023	1,964,074	504,024	2,468,098
2024	3,316,000	929,962	4,245,962	2024	1,969,569	461,822	2,431,391
2025	3,324,500	786,824	4,111,324	2025	1,850,822	427,297	2,278,119
2026	2,998,500	650,708	3,649,208	2026	1,887,853	392,027	2,279,880
2027	2,933,000	542,114	3,475,114	2027	1,925,672	356,006	2,281,678
2028	1,724,000	436,748	2,160,748	2028	1,964,297	319,210	2,283,507

2029	1,268,500	367,272	1,635,772	2029	1,565,527	286,012	1,851,539
2030	1,247,000	311,704	1,558,704	2030	1,554,931	256,895	1,811,826
2031	1,171,500	259,804	1,431,304	2031	1,586,226	227,563	1,813,789
2032	1,075,000	217,996	1,292,996	2032	1,245,979	201,306	1,447,285
2033	1,025,000	184,038	1,209,038	2033	1,271,137	178,195	1,449,332
2034	1,015,000	154,392	1,169,392	2034	861,135	158,038	1,019,173
2035	1,015,000	126,678	1,141,678	2035	877,952	142,666	1,020,618
2036	995,000	98,964	1,093,964	2036	895,151	126,943	1,022,094
2037	830,000	71,716	901,716	2037	789,446	110,860	900,306
2038	580,000	48,862	628,862	2038	713,505	96,877	810,832
2039	515,000	34,364	549,364	2039	727,178	84,396	811,574
2040	450,000	21,826	471,826	2040	576,700	73,270	649,970
2041	340,000	11,400	351,400	2041	587,433	63,526	650,959
2042	115,000	3,450	118,450	2042	464,209	53,550	517,759
Totals	\$ 29,406,679	\$ 6,333,234	\$ 35,739,913	2043	475,247	43,338	518,585
				2044	486,548	32,882	519,430
				2045	498,118	22,178	520,296
				2046	509,963	11,220	521,183
				Totals	\$ 27,248,672	\$ 4,630,099	\$ 31,878,771

The Town has entered into several loan agreements with the Massachusetts Clean Water Trust (MCWT) for which the Town has recorded the total amount of debt outstanding. However, as of June 30, 2022, the Town has not incurred \$21,803,779 of the eligible construction costs related to the projects and as a result has not yet received the corresponding loan proceeds from MCWT. Accordingly, the Town has recorded \$21,803,779 as an intergovernmental receivable in the basic financial statements, as of June 30, 2022.

The Town is scheduled to be subsidized by the MCWT on a periodic basis for principal for costs for \$98,971. The principal subsidies are guaranteed and therefore a \$98,971 intergovernmental receivable has been reported in the business-type financial statements. Since the Town is legally obligated for the total amount of the debt, such amounts have been reported in the basic financial statements. The 2022 principal and interest subsidies totaled \$49,138 and \$15,919, respectively.

The Town is subject to various debt limits by statute and may issue additional general obligation debt under the normal debt limit. At June 30, 2022, the Town had the following authorized and unissued debt:

Purpose	Amount
Sewer projects	\$ 37,524,175
Water projects	12,083,443
Airport projects	35,336,050
School improvements	9,571,084
Cotuit Bay entrance channel dredging project	4,075,233
Private road repairs	1,165,736
Clear vegetation and obstruction project	300,000
Golf Course Improvements	414,000
Town Hall improvements	2,025,853
Police Facility	1,167,321
HYCC Facility Improvements	1,770,000

Ocean St. Sidewalks & Kalmus Beach Entrance	2,950,000
Snows Creek Culvert Replacement	1,400,000
Centerville Recreation Site Improvements	827,376
Hathaways Pond Bath House & Site Improvements	450,000
Totals	\$ 111,060,270

C. General Obligation Debt – Credit Ratings

Several factors determine the amount of debt the Town can afford to maintain. These include the strength of the local economy, the wealth of the community, and the amount of debt sold by overlapping jurisdictions (Barnstable County Government, Cape Cod Regional Transit Authority, and Cape Cod Regional Technical High School), future capital needs, the local economy as well as the Town's financial position, administrative capabilities, and level of planning. These factors, as well as many others, influence the Town's bond rating - an evaluation of the Town's ability to repay debt as determined by the rating agencies. System improvements such as programmatic budgeting, an administrative code, policy planning based on a five-year forecast, and financial fund management have helped the Town's position.

In February 2022, the Town Treasurer conducted a \$12.8 million bond sale, which required a rating to be assigned to it prior to the sale. In their most recent bond rating analysis dated February 18, 2022 Standard & Poor's (S&P) affirmed the 'AAA' rating on the Town's outstanding debt with a stable outlook. S&P cited the following reasons for their rating and stable outlook:

“The rating reflects our opinion of Barnstable's very strong economy, supported by a wealthy tax base and high income. In addition, we think the town's continued maintenance of very strong budgetary flexibility, with available reserves averaging about 25% of expenditures in the past three fiscal years, due to positive financial performance and very strong management further support our view of the rating. In addition, we understand Barnstable's performance remained very strong throughout the COVID-19 pandemic with the town generating a \$5.6 million surplus in fiscal 2021, as well as an expected surplus in fiscal 2022. Although we think long-term retirement liabilities and costs and potential additional debt could pressure the budget, we believe that the town will likely manage these costs appropriately and that additional debt will likely remain relatively affordable due to Barnstable's size and wealthy taxbase.

Under our criteria, titled “Ratings Above The Sovereign: Corporate And Government Ratings—Methodology And Assumptions,” published Nov. 19, 2013, we rate Barnstable higher than the nation because we think the town can maintain better credit characteristics than the U.S. in a stress scenario based on its predominantly locally derived revenue base and our view that pledged revenue supporting bond debt service is at limited risk of negative sovereign intervention. In 2020, local property taxes generated nearly 70% of revenue, which demonstrated a lack of dependence on central government revenue.

The town's general creditworthiness reflects our opinion of Barnstable's:

- *Coastal residential community in Cape Cod, with strong wealth and income indicators, albeit with some exposure to environmental hazards;*
- *Comprehensive set of formalized financial policies and practices;*
- *History of strong financial performance with the maintenance of very strong reserves;*
- *Low overall debt and contingent liability profile; and*
- *Strong institutional framework.”*

The descriptor used by S&P for this rating is “Prime Investment Grade”. Strong bond ratings generally reduce interest expense to service the debt as well as bond insurance costs. Additionally, strong bond ratings enhance the prestige of the community within the financial markets and are a vote of confidence by the rating agency that the municipality is pursuing a sound financial course. This AAA rating reflects sound credit quality with associated very low risk and should result in future low borrowing costs for the Town.

The Town of Barnstable has maintained its bond rating from Standard & Poor's of AAA which was upgraded in June of 2007.

It is important to understand that no single ratio or factor determines a General Obligation Bond rating or fully encompasses the fiscal health of a municipality. The factors must be taken as a group. Other debt ratios, as well as economic and administrative factors account for the differences in ratings. A growing community can afford more debt than a non-growth community, and a community with more income wealth can afford more debt than a poorer community can.

Generally, bond ratings do not change suddenly but respond more to long-range trends. The stable outlook reflects S&P's view of the town's very strong budgetary flexibility and liquidity, further supported by a strong economy. As such, they do not expect to change the rating in the next two years. However, dramatic changes are key indicators of fiscal health and can result in an immediate rating change. In projecting bond ratios, it is important to review the sensitivity of the ratios to changes in the economy.

D. General Obligation Debt - Limitations

There are legal limitations that govern the issuance of municipal debt. Under Massachusetts statutes, the debt limit of the Town of Barnstable is 5 percent of the valuation of taxable property as last equalized by the State Department of Revenue. The Town can authorize debt up to this amount without State approval. The current debt limitation for the Town of Barnstable is \$911 million, which is significantly higher than the Town's outstanding general obligation debt that is subject to this limitation. It should be pointed out that much of the existing Town debt does not factor into this limitation. There are categories of general obligation debt that are exempt from, and do not count against the debt limit such as certain school bonds, water bonds, solid waste disposal facility bonds, and water pollution abatement revenue bonds.

Town's Equalized Valuation (EQV)	<u>\$16,221,137,000</u>
Debt Limit – 5% of EQV	\$911,056,850
Less:	
Outstanding Debt Applicable to Limit	\$70,822,512
Authorized and Unissued Debt	<u>\$111,060,270</u>
Legal Debt Margin	<u>\$729,174,068</u>
% of debt limit debt applicable to the limit	19.96%

E. General Obligation Debt - Affordability

Debt analysis, future debt projections, and general obligation bond ratios help determine the amount of general obligation debt the Town can afford to issue and support. The table on the following page illustrates the various debt ratios compared to national medians reported by Standard and Poor's. As shown, Barnstable's ratios show moderate amounts of debt. However, there are a number of factors not directly under the control of the Town, which can influence key General Obligation (G.O.) bond ratios. Several of the G.O. bond ratios are very sensitive to these uncontrollable factors, and the assumptions used to project their growth can play an important role in future debt policy. Some of these factors are:

Overlapping Debt. Overlapping debt is the G.O. debt that is issued by other government entities whose jurisdictions include the citizens of Barnstable. The Town also has to be aware of the debt management practices of overlapping jurisdictions. The primary entities that have an impact on the Town are Barnstable County, Cape Cod Regional Vocational Technical School District, fire districts, and the regional transportation authority. Overlapping debt combined with the Town's own direct debt is a true measure of the G.O. debt burden placed on the citizens. To determine an issuer's overall G.O. debt burden, overlapping debt is added to the issuer's own outstanding G.O. debt. If other overlapping jurisdictions pursue aggressive capital improvements programs, some of the Town's debt ratios will

increase. Therefore, it is important to be aware of not only our G.O. debt issuance plans, but also those of other surrounding jurisdictions.

**Direct and Overlapping Governmental Activities Debt
As of June 30, 2022**

Town of Barnstable, Massachusetts	Debt Outstanding	Percentage Applicable (1), (2)	Share of Overlapping Debt
Debt repaid with property taxes and user charges:			
Barnstable County	\$ 19,117,890	20.45%	\$ 3,909,609
Cape Cod Regional Technical High School	62,730,000	27.00%	16,937,100
Barnstable Fire District	1,800,000	100.00%	1,800,000
Centerville-Osterville-Marston Mills Fire District	1,310,000	100.00%	1,310,000
Cotuit Fire District	3,299,472	100.00%	3,299,472
Hyannis Fire District	15,660,000	100.00%	15,660,000
Subtotal, overlapping debt			42,916,181
Town direct debt			56,200,640
Total direct and overlapping debt			\$ 99,116,821

(1) County expenses, including debt service, are assessed upon the towns within the county in proportion to their taxable valuation.

(2) The fire districts are special governmental units. The Town serves as a collecting agent for taxes and transfers funds directly to the fire districts on a weekly basis.

Property Assessments. Several key debt ratios use property valuations in the calculation of debt burden. If the Town's property values were to rise, debt ratios will continue to improve.

Town of Barnstable Debt Ratios

<u>Current Status</u>	<u>Criteria</u>
0.35%	Direct Debt - General Fund Debt as a % of the Town's Equalized Property Valuation as calculated by the state. Formula – Total Government Obligation Bonds Debt Service ÷ Equalized Valuation Standard & Poor's rates this as Low (Less than 3%)
3.64%	Municipal Debt Burden – Current Year Formula - Total Government Obligation Bonds Debt Service ÷ Total General Fund Expenditures Standard & Poor's rates this as Low (Below 8%)
\$302	Net Debt Per Capita Formula – Governmental Fund Debt (Short + Long Term Debt- Cash & Cash Equivalents) ÷ Town population Standard & Poor's rates this as Low (below \$2,000)
\$331,612	Per Capita Market Value Formula – Equalized Valuation ÷ Population Standard & Poor's rates this as Extremely Strong (Above \$100,000)

F. Administrative Polices In Relation To Debt

This section provides policies governing the management of debt for the Town that are included in the Town's Administrative Code.

Debt Refinancing

Refunding (or refinancing) bonds are characterized as either current refunding's or advance refunding's. A current refunding is one in which the outstanding (refunded) bonds are redeemed within 90 days of the date the refunding bonds are issued. In an advance refunding, the refunded bonds are redeemed more than 90 days from the date the refunding bonds are issued. Changes to federal tax law in late 2017 eliminated the ability of governments to issue tax-exempt advance refunding bonds. Taxable advance refunding's of tax-exempt or taxable bonds are still permitted. However, if this opportunity is reintroduced, an advance refunding of outstanding debt shall only be considered when present value savings of at least 3% of the principal amount of the refunded bonds are produced, unless: (1) a debt restructuring is necessary or (2) bond covenant revisions are necessary in order to facilitate the ability to provide services or to issue additional debt. The Town, in collaboration with its Financial Advisor, will continually monitor the municipal bond market conditions to identify refinancing opportunities. An analysis shall be conducted when necessary to determine whether debt financing, cash purchase, or leasing is the most cost effective method of financing for the Town.

General Obligation Debt

1. All debt shall be financed within the limitations of Proposition 2½ with the exception of debt related to Enterprise Funds, gifts, and betterments. The requirements for such financing shall be an expenditure of at least \$250,000 and a useful life in excess of five years.
2. The term of long-term debt generally shall not exceed the expected useful life of the capital asset being financed and, in no case, shall it exceed twenty years.
3. The ratio of Net Debt (Total outstanding Town of Barnstable General Obligation debt less reimbursements) to Total Assessed Valuation shall not exceed 1.5%. This excludes debt of overlapping jurisdictions.

The debt-to- assessed value ratio for the Town of Barnstable is 0.35%.

4. The ratio of Debt Service to Total Expenditures (operating expenditures and debt service combined) shall not exceed 15%.

The Town's debt coverage ratio is 3.64%.

5. The Town shall target a debt to income ratio of 8%. The S&P ratio is calculated by dividing Overall Net Debt per Capita by Income per Capita.

The Town's debt-to-income per capita ratio is 4.9%.

6. Current revenue should be committed annually to provide sufficient "Pay-as-you-go" financing so that at the end of five years, annual contributions from current revenues amount to 10% of new debt to be issued.

The Town currently exceeds this requirement by a significant margin. The Town intends to spend over \$28 million in the next five years as "pay-as-you-go" and anticipates financing about \$87 million in capital with new debt issues resulting in a 35/65 ratio.

7. Excess appropriated bond issues shall be placed into a "bond repayment fund account" at the end of a project completion. The only purpose of the "bond repayment fund account" shall be 1) to make bulk principal pay-downs against general bond debt, or 2) to be used to pay down the principal on any bond issue at the time of refinancing as provided for in Section 1.04C herein.

The Town currently has no balance in this fund. Unspent bond proceeds are redirected to new eligible projects.

Capital Trust Fund

A Capital Trust Fund has been established for the purpose of financing debt service for recommended Capital Improvements Program projects, as contained within the Town's five-year capital improvements plan.

1. The Capital Trust Fund will be funded through a general operation set aside of at least \$1.9 million annually. The estimated commitment for FY 2023 is approximately \$12 million. This is expected to increase by 2.5% for the next 5 years.
2. The Capital Trust Fund shall not be utilized for any purpose other than that stated herein.
3. The criteria for reviewing capital project eligibility for Capital Trust Fund borrowing include the following:
 - a. The capital project shall have a financing term of 20 years or less,
 - b. The capital project shall have a minimum project cost of \$250,000,
 - c. The capital project is approved by the Town Council for funding through an appropriation and loan order submitted by the Town Manager.
4. The Capital Trust Fund will have a commitment restriction on the fund, such that obligated estimates from authorized orders shall not exceed, at any one time, more than 80% of the amount in the fund as of the close of the fiscal year prior to the next debt service authorization, unless recommended by the Town Manager.
5. The Capital Trust Fund shall otherwise function in accordance with related financial policies of the Town.

G. Debt Summarized

A responsible debt management program is an integral part of municipal finance. A Town's debt must be structured to reflect the underlying, long-term economic prospects of the community. There are statutory requirements and market forces at work to regulate a community's ability to borrow. Continuing disclosure, as required on an annual basis to the bond markets, provides a powerful incentive for a municipality to keep its financial house in order. This analysis has emphasized the importance of credit ratings because, in effect, these are municipal finance report cards. A good credit rating should be guarded jealously, since it is not easily obtained, but can be lost quickly without vigilance and sound financial management.

PART V – TOWN MANAGER RECOMMENDATIONS

Project Recommendation Rationale

Several factors were taken into consideration when determining which projects to recommend for funding in Fiscal Year 2024. In addition to the scoring by the senior staff, funding considerations are directed towards projects that had received previous funding, and therefore, are ready for the next stage of development; projects that would contribute to the economic development of the Town; projects that would preserve important infrastructure components of the Town; projects that improve high usage assets; projects that have outside funding available to offset the costs or can be covered by user fees; and projects that have an important public safety component associated with them. The recommended projects total \$67.6 million. The General Fund totals \$12.3 million, the Enterprise Funds total \$21.7 million, and the CWMP totals \$33.6 million. Funding for the Enterprise Funds’ program consists of using \$1.4 million of Enterprise Fund reserves; \$370,106 in transfers from balances remaining in completed projects, and \$19.9 million in new borrowing authorizations. Grant funds from the Federal Aviation Administration and the Massachusetts Department of Transportation are expected to offset the borrowing authorizations for the Airport Enterprise Fund projects. Once received, this will allow the town to rescind these borrowing authorizations. The remaining bonds issued for the Enterprise Fund projects are expected to be paid back with Enterprise Fund revenues with the exception of the HYCC Mechanical Improvements. Funding for the General Fund portion of the program consists of \$3.9 million in General Fund reserves, \$3.7 million Capital Trust Fund (CTF) reserves, \$681,154 in transfers from existing capital appropriations no longer needed, and \$3.5 million in new borrowing authorizations. Lastly, it is recommended to use \$1.15 million in reserves and \$30.9 million in new borrowing authorizations under the Sewer Construction & Private Way Improvement Special Revenue Fund, and \$1.5 million in Capital Trust Fund reserves for the Comprehensive Wastewater Management Plan (CWMP).

Enterprise Funds Recommendations

Council Order Number	Project Name	Funding Source			
		Reserves	Bond Issue	Transfers	Total
2023-119	HVAC Upgrades to Terminal & Tower	50,793	965,071		1,015,864
2023-120	Master Plan Updates	26,250	498,750		525,000
2023-121	Security Camera Upgrades	34,450	654,550		689,000
2023-122	Replace SRE Equipment 10-wheeler - Airport #47	19,150	363,850		383,000
2023-123	SRE Equipment Storage Facility		1,120,580		1,120,580
2023-124	Electric Aircraft Support Vehicle & Charging Station	25,250	479,750		505,000
2023-125	Jet A Fuel Storage Tank	71,000	284,000		355,000
Total Airport Enterprise Fund Projects		226,893	4,366,551	-	4,593,444
2023-108	HGC Turf Maintenance Equipment	482,935		9,335	492,270
2023-109	OBF Irrigation Sprinkler Replacement	82,561			82,561
2023-110	OBF Cart Barn Roof Replacement	161,757			161,757
Total Golf Course Enterprise Fund Projects		727,253	-	9,335	736,588
2023-073	Sandy Neck Facility Reconfiguration - Final Design	50,000			50,000
Total Sandy Neck Enterprise Fund Projects		50,000	-	-	50,000
2023-074	Prince Cove Marina Improvements - Design	139,000		56,000	195,000
Total Marina Enterprise Fund Projects		139,000	-	56,000	195,000
2023-100	HYCC Facility Mechanical Improvements		1,752,400		1,752,400
Total Hyannis Youth & Community Center Enterprise Fund Projects		-	1,752,400	-	1,752,400

Enterprise Funds Recommendations Continued

Council Order Number	Project Name	Funding Source			
		Reserves	Bond Issue	Transfers	Total
2023-082	License Plate Reader Technology	26,829		23,171	50,000
2023-083	Container Replacement	50,000			50,000
Total Solid Waste Facility Improvements		76,829	-	23,171	100,000
2023-092	Pipe Replacement and Upgrade Program		1,500,000		1,500,000
2023-093	Wells, Pump Stations, Treatment Plant Upgrades	200,000			200,000
2023-094	Mary Dunn 1: Water Storage Tank Rehabilitation		927,000		927,000
2023-095	New Well Exploration Program		472,400	147,600	620,000
2023-096	Mary Dunn 4 Well Building		1,000,000		1,000,000
2023-097	Mary Dunn Rd Water Main Replacement		3,000,000		3,000,000
Total Water Supply Enterprise Fund Projects		200,000	6,899,400	147,600	7,247,000
2023-084	Pump Station Rehabilitation Program		1,616,000	134,000	1,750,000
2023-085	Water Pollution Control Facility Improvements		4,500,000		4,500,000
2023-086	Downtown Hyannis Force Main Rehabilitation		800,000		800,000
Total Water Pollution Control Enterprise Fund Projects		-	6,916,000	134,000	7,050,000
Total All Enterprise Funds		1,419,975	19,934,351	370,106	21,724,432

General Fund Recommendations

Council Order Number	Project Name	Funding Source			
		Reserves	Bond Issue	Transfers	Total
2023-075	Barnstable Harbor Marina Revetment - Design & Permitting	172,000			172,000
2023-102	Public Roads Maintenance	3,750,000			3,750,000
2023-106	Raised Crosswalks in Cotuit	175,000			175,000
2023-107	Hawes Ave. Culvert Reconstruction - Design	131,500			131,500
Total Infrastructure Projects		4,228,500	-	-	4,228,500
2023-098	Town Hall Roof Analysis & Repair	185,235			185,235
2023-099	School Administration Building Mechanical Cooling Upgrades		1,141,929		1,141,929
2023-101	Department of Public Works Office Administration Building Expansion	26,680		373,320	400,000
Total Municipal Facilities Projects		211,915	1,141,929	373,320	1,727,164
2023-076	Scudder's Lane Boat Ramp Reconstruction		496,000		496,000
2023-077	Little River Fish Passage Restoration - Evaluation Phase	90,000			90,000
2023-078	Rosa Lane Fish Passage Culvert Replacement Design	225,000			225,000
2023-079	Lake Elizabeth Fish Run, Dam & Culvert Improve. Design & Permitting	125,000			125,000
2023-080	McCarthy's Landing Dinghy Dock Construction	295,000			295,000
2023-081	Cotuit Town Dock Improvements - Design & Permitting	41,430		58,570	100,000
Total Waterways Projects		776,430	496,000	58,570	1,331,000
2023-103	Monitoring & Management Plan for Fresh Water Ponds	164,560		105,440	270,000
2023-104	Mystic Lake Alum Treatment	195,000			195,000
2023-105	Municipal Separate Storm Sewer System	95,000			95,000
Total Water Quality Projects		454,560	-	105,440	560,000

The recommended projects for the General Fund - Continued

Council Order Number	Project Name	Funding Source			
		Reserves	Bond Issue	Transfers	Total
2023-111	EIFS Wall Replacement - Coob Astro Park		400,000		400,000
2023-112	Campus Wide Door & Window Replacement		1,000,000		1,000,000
2023-113	Campus Wide Paving & Sidewalk Repair	350,000			350,000
2023-114	BHS Culinary Arts Kitchen		500,000		500,000
2023-115	Campus Wide Mechanical Upgrades	250,000			250,000
2023-116	Knight Hall and PAC Chillers	250,000			250,000
2023-117	BHS Fields Upgrades: Phases 2 and 3	1,000,000			1,000,000
2023-118	West Villages Elementary Carpet Replacement	68,846		681,154	750,000
Total School Facilities Projects		1,918,846	1,900,000	681,154	4,500,000
Total General Fund Projects		7,590,251	3,537,929	1,218,484	12,346,664

Comprehensive Wastewater Management Plan Recommendations

Council Order Number	Project Name	Funding Source			
		Fund Reserves	Bond Issue	Savings/Transfers	Total
Comprehensive Wastewater Management Plan					
2023-087	PCW Route Sewer Expansion Construction		30,900,000		30,900,000
2023-088	Old Craigville Rd Sewer Expansion - Design & Permitting	1,500,000			1,500,000
2023-089	Long Beach Sewer Expansion - Preliminary Design & Survey	350,000			350,000
2023-090	Old Yarmouth Rd Sewer Expansion - Final Design & Permitting	650,000			650,000
2023-091	Warren's Cove Aquaculture Feasibility Study	150,000			150,000
Total Comprehensive Wastewater Management Plan		2,650,000	30,900,000	-	33,550,000
Grand Total Capital improvement Plan		11,660,226	54,372,280	1,588,590	67,621,096

Additional Project Recommendations

Applications for the following list of projects are expected to be submitted to the Community Preservation Committee for consideration of funding from the Community Preservation Fund. Once the Community Preservation Committee has acted upon the request, an appropriation order will be presented to the Town Council for its consideration. These funding requests will fall outside of the Capital Program funding cycle.

Projects to be Submitted to the Community Preservation Committee for Funding						
DEPT	PRIORITY	PROJECT TITLE	GENERAL FUND	CPC SHARE	TOTAL	
CSD	1	Centerville Recreation Multipurpose Field Reconstruction	\$ 178,680	\$ 246,322	\$ 425,002	
CSD	3	Skate Park Master Plan, Design & Construction	373,575	1,984,321	2,357,896	
CSD	4	Bay Lane Ball field Improvements	79,443	678,368	757,811	
CSD	6	Osterville Playground	363,207	989,129	1,352,336	
CSD	8	Kennedy Memorial Renovation	85,307	2,089,029	2,174,336	
DPW	14	Armory Building Exterior Improvements	-	3,100,000	3,100,000	
DPW	29	Marstons Mills Playground & Parking	-	660,648	710,648	
DPW	30	West Barnstable Railroad Depot Restoration	138,305	531,695	670,000	
TOTAL CPC MATCHED PROJECTS			\$ 1,218,517	\$ 10,279,512	\$ 11,548,029	

Sandy Neck Enterprise Fund Projects Description

PROJECT: SN-24

DEPARTMENT PRIORITY: 1 of 1

2023-073

Project Working Title: Sandy Neck Beach Facility Reconfiguration – Final Design

Project Location: 425 Sandy Neck Road, West Barnstable

Project Description: The project will involve a managed site reconfiguration in order to provide a more resilient, long-term solution to the existing parking lot, ORV trail, gate house and other facilities at Sandy Neck Beach. This request is for final design and permitting costs.



Project Justification: A detailed analysis of the long-term viability of the Sandy Neck beach parking and supporting facilities was completed as part of a grant from Coastal Zone Management (CZM) in the fall of 2016. The analysis demonstrated that to provide adequate protection of the vertical infrastructure and maintain the viability of the parking, a relocation of the parking area was the most viable alternative. In order to supplement the information contained in the report, the Town retained the Woods Hole Group to prepare a more detailed evaluation of alternatives to manage the parking lot, gatehouse, and off-road vehicle trail. The recommended solution is currently being designed and permitted. This funding request will complete the final designs and prepare a bid plan set which will make the project more likely to receive grant funds and will put the Town in a position to act quickly should a future storm damage the existing parking lot and facilities.

Impact of Denial/Postponement: Without a long-term solution, the parking lot will continue to be vulnerable, potentially resulting in damage to the parking area and cause concern about the surviving septic system and the use of the beach itself for the public. Further, through multiple and lengthy talks with the regulatory agencies (DEP and NHESP), it has become apparent the Town should not assume a recovery of lost parking spaces, due to storm damage, is guaranteed under the current regulatory framework. Annual parking lot revenue equates to approximately \$250,000. This revenue source is potentially in jeopardy due to erosion from future storms.

Project Cost Estimates:		FY 2024	Future FY
	Final Design		\$50,000
Construction or Acquisition		-	\$3,500,000
Project Management		-	-
Project Contingency		-	\$800,000
All Other Cost		-	-
Total Project Cost		\$50,000	\$4,300,000

Basis for Cost Estimates: Planning Level Costs from Current Evaluation Study

Project Estimated Completion Date: TBD		Design & Permit (months)	12	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$50,000	Design / Construction			

2025	\$4,300,000	Construction
2026	-	-
2027	-	-
2028	-	-

Source of Funding: Sandy Neck Enterprise Fund Reserves.

Operating Budget Impact now or in future: Reduction of the use of screened sand to restore the dune after major storm events.



Aerial Photo of Sandy Neck Existing Conditions



Lower Lot after a rain event



Nourished section of dune March 2021



Post Storm Dune Erosion



Post nourishment December 2013



Post Nor' Easter (Jan. 02, 2014)

Marina Enterprise Fund Projects Description

PROJECT: MAR-24

DEPARTMENT PRIORITY: 1 of 3

2023-074

Project Working Title: Prince Cove Marina Improvements - Design

Project Location: 235 Cedar Tree Neck Road, Marstons Mills

Project Description: The project will make improvements to Prince Cove Marina including: installation of a new tight tank, installation of a new pump out facility, renovation of existing building including bathroom improvements, parking lot improvements, and expansion/replacement of the floating docks. This project is anticipated to be completed in phases. This request is for design and permitting.



Project Justification: Prince Cove Marina is a popular Town Owned marina with access to Prince Cove. However, the marina is lacking modern facilities that are in need of improvements. The marina building is underutilized, in need of rehabilitation and in need of upgraded, accessible restrooms. The marina is lacking a pump out station. A new tight tank is warranted for the facility to handle improved restrooms and a pump out station in order to prevent/reduce nutrient loading to Prince Cove. The parking area is inefficient and could be expanded and new stormwater facilities installed. Finally, there is a desire to investigate the expansion of the floating docks in order to maximize use of the facility.

However, the marina is lacking modern facilities that are in need of improvements. The marina building is underutilized, in need of rehabilitation and in need of upgraded, accessible restrooms. The marina is lacking a pump out station. A new tight tank is warranted for the facility to handle improved restrooms and a pump out station in order to prevent/reduce nutrient loading to Prince Cove. The parking area is inefficient and could be expanded and new stormwater facilities installed. Finally, there is a desire to investigate the expansion of the floating docks in order to maximize use of the facility.

Impact of Denial/Postponement: Denial will result in the facility remaining underutilized and outdated.

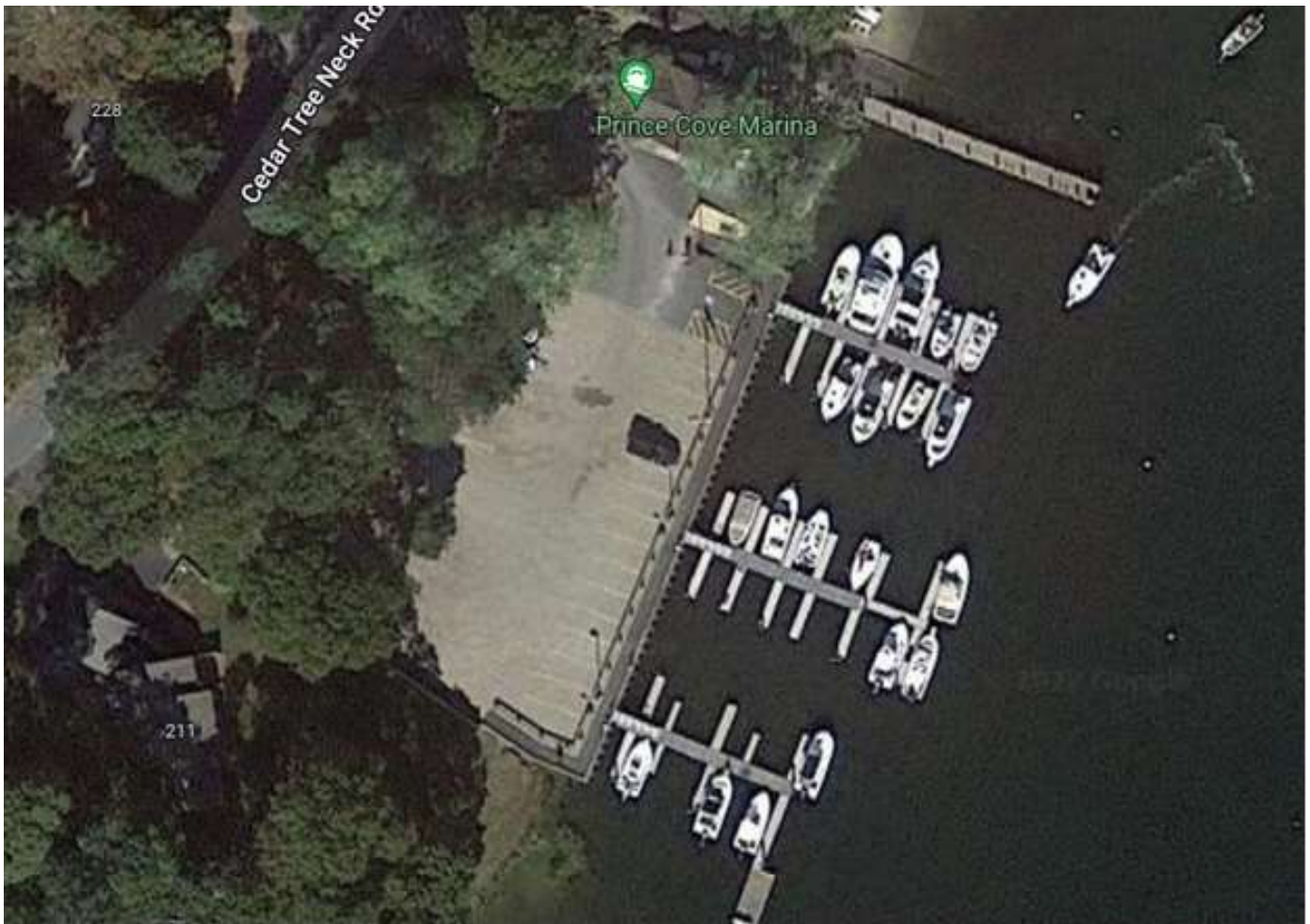
Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting		\$175,000
Construction or Acquisition		-	\$1,075,000
Project Management		\$15,000	\$100,000
Project Contingency		\$5,000	\$315,000
All Other Cost		-	-
Total Project Cost		\$195,000	\$1,490,000

Basis for Cost Estimates: Consultant and DPW Engineering

Project Estimated Completion Date: TBD		Design & Permit (months)	12	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$195,000	Design / Permitting			
2025	-	-			
2026	\$819,500	Construction Phase 1 (Tight Tank, Pump Out, Building Rehab/Bathrooms)			
2027	-	-			
2028	\$670,500	Construction Phase 2 (Parking Lot Improvements, Expand Replace Docks)			

Source of Funding: Marina Enterprise Fund Reserves and Transfer from Existing Projects.

Operating Budget Impact now or in future: None



Prince Cove Marina

Marine & Environmental Affairs Department Projects Description

PROJECT: MAR-24

DEPARTMENT PRIORITY: 2 of 3

2023-075

Project Working Title: Barnstable Harbor Marina Revetment – Design & Permitting

Project Location: 110 Freezer Road, Barnstable Village

Project Description: The project scope includes removing slope armoring on the west bank; resetting existing or installing new buttress boulders; resetting existing or installing new slope armoring on geotextile and aggregate base and filling voids; increasing the elevation of the top of revetment to address the scarp and reduce risks of overtopping; improving drainage and correcting erosion along the access road above the revetment.

Project Justification: The revetment reinforces the western bank of Barnstable Harbor Marina, protecting it from erosion and scouring. In turn, the revetment protects the access road immediately above the revetment, which serves public and private facilities; and the revetment maintains adequate area and water depth in the inner marina for numerous vessels to navigate and berth.

Impact of Denial/Postponement: If repairs are not made there is an increased risk the revetment may fail, in which case use of the two dozen adjacent boat slips may be impaired, and this would possibly constitute a waterways permit violation. Failure of the revetment would also jeopardize stability of the access road immediately above the revetment, which provides slip holders access, access to public parking and public rest rooms, and access to Barnstable Marine Service, a private berthing, fueling, and maintenance facility.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$134,000	-
	Construction or Acquisition	-	\$676,000
	Project Management	\$12,000	\$14,000
	Project Contingency	\$26,000	\$169,000
	All Other Cost	-	-
	Total Project Cost	\$172,000	\$859,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$172,000	Design and Permitting			
2025	-	-			
2026	\$859,000	Construction			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Short term maintenance cost reductions.



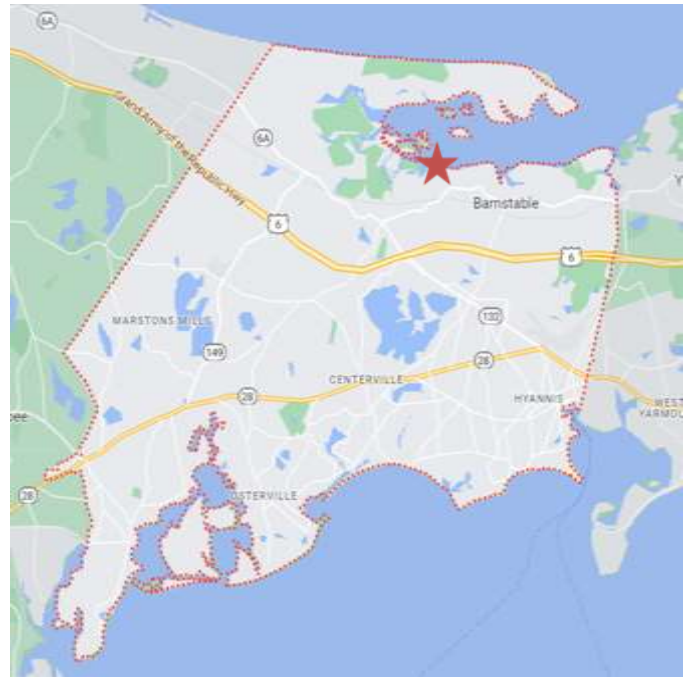
Project Working Title: Scudder’s Lane Boat Ramp Reconstruction

Project Location: 210 Scudder’s Lane, Barnstable

Project Description: Replace existing failing asphalt boat ramp and associated parking lot and storm water management improvements.

Project Justification: The boat ramp is very old and the asphalt is collapsing creating a safety hazard. The failing boat ramp may eventually render the ramp unusable, restricting this important access for recreational and commercial (shellfish) users.

Impact of Denial/Postponement: Denial will result in further deterioration of the infrastructure which could result in closure of the ramp, thus restricting access to important commercial shell fishing operations and recreational boating.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$386,000	-
	Project Management	\$14,000	-
	Project Contingency	\$96,000	-
	All Other Cost	-	-
	Total Project Cost	\$496,000	-

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	-	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$496,000	Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Bond Issue

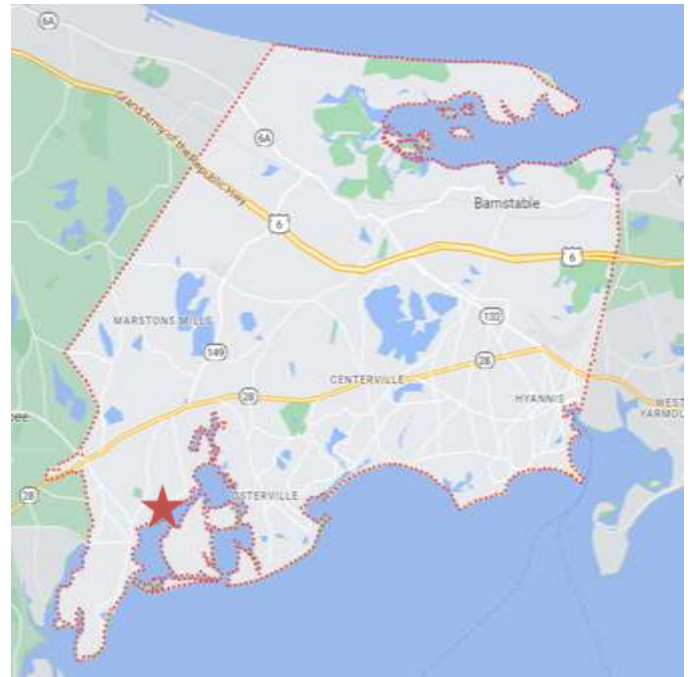
Operating Budget Impact now or in future: None



Project Working Title: Little River Fish Passage Restoration

Project Location: Little River, Cotuit

Project Description: A comprehensive assessment of restoring fish passage in Little River. Little River was historically a vibrant herring run with fish traveling to spawn in Lovell’s Pond in Cotuit. However, current conditions prohibit the migration of fish into the herring run in multiple locations, most notably at the mouth of the river at Lovell’s Pond, but also at multiple culverts that have been installed throughout the system. The Natural Resources Department worked with Massachusetts Division of Marine Fisheries (DMF) to perform a 2 year habitat assessment on Lovell’s Pond to determine if the pond provides favorable spawning habitat and water quality for herring. The results of the assessment were satisfactory despite recent concerns of eutrophication. DMF provided a letter of support and a memorandum summarizing the results of the study. Little River is a major watershed of Cotuit Bay. Restoring this herring run would minimize these limiting issues and rebuild the river's herring population.



Project Justification: The goal of this project is to prepare a comprehensive evaluation of the necessary restoration to improve the ecological health of Little River by enhancing and naturalizing the existing river in the context of the current landscape. The river was once a viable and successful herring run but due to alterations in flow of the river, herring populations no longer exist in this system. In addition, American eel have been observed in the system but it is unlikely they are able to make it to Lovell’s Pond due to the numerous physical obstructions that restrict flow especially during times of low water. Evaluation is the first step in making this system a thriving fish passage again. Understanding restoration requirements will put the Town in position to seek potential future grant funding.

Impact of Denial/Postponement: Little River will remain inaccessible for fish passage.

Project Cost Estimates:		FY 2024	Future FY
	Evaluation and Feasibility Study	\$90,000	TBD
	Design & Permitting	-	TBD
	Construction or Acquisition	-	TBD
	Project Management	-	TBD
	Project Contingency	-	TBD
	All Other Cost	-	TBD
	Total Project Cost	\$90,000	TBD

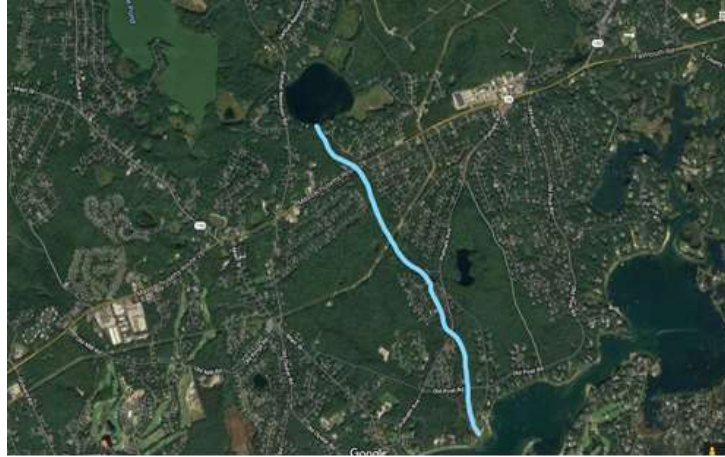
Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2024		Design & Permit (months)	12	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$90,000	Evaluation and Feasibility Study			
2025	TBD	Design & Permitting			

2026	-	-
2027	TBD	Construction
2028	-	-

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: This project has potential to minimize routine maintenance as some culverts are undersized and require routine maintenance to remove debris.

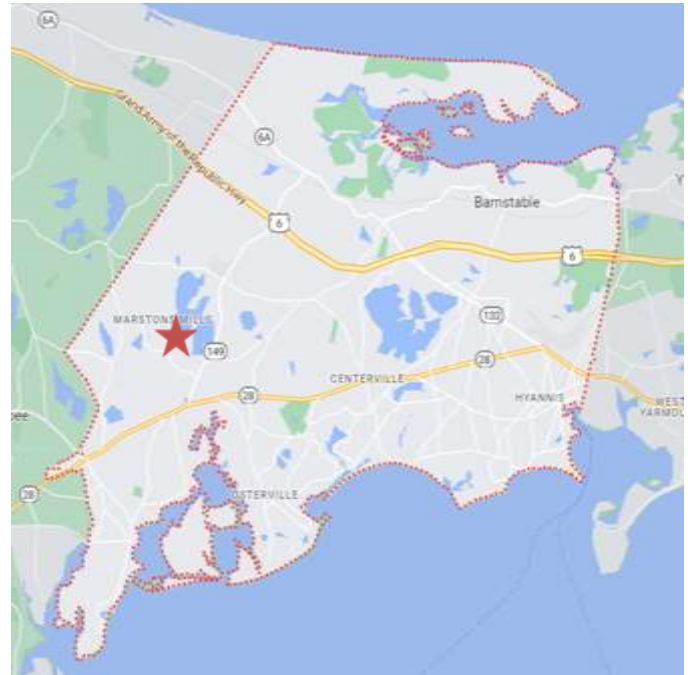


Project Working Title: Rosa Lane Fish Passage Culvert Replacement

Project Location: Rosa Lane, Marstons Mills

Project Description: This project will design and permit the replacement of the culvert under Rosa Lane in order to improve fish passage in the Marstons Mills River.

Project Justification: The Marstons Mills River is an active herring run and supports the Town's largest herring counts every year. In recent years, up to 80,000 fish have been counted entering Mill Pond on their way to Middle Pond. The culvert under Rosa Lane is undersized and restrictive to fish passage. In order to improve fish passage, this culvert needs to be replaced with a larger culvert. The project is listed on the Cape Cod Water Resources Restoration Project Priorities List and as such is in position for grant funding from NRCS. The project is located on private property which will require the Town to secure easements to perform the work. Securing the easements, designs, and permits for this project will put the Town in a position to obtain grant funds.



Impact of Denial/Postponement: Little River will remain inaccessible for fish passage.

Project Cost Estimates:		FY 2024	Future FY
	Evaluation and Feasibility Study	-	TBD
	Design & Permitting	\$225,000	-
	Construction or Acquisition	-	\$800,000
	Project Management	-	TBD
	Project Contingency	-	\$200,000
	All Other Cost	-	TBD
	Total Project Cost	\$225,000	\$1,000,000

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	24	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$225,000	Design & Permitting			
2025	-	-			
2026	\$1,000,000	Construction			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: This project has potential to minimize routine maintenance since undersized culverts tend to require routine maintenance to remove debris.



Photo 1: Looking at culvert (nearly underwater) on upstream side of Rosa Lane.



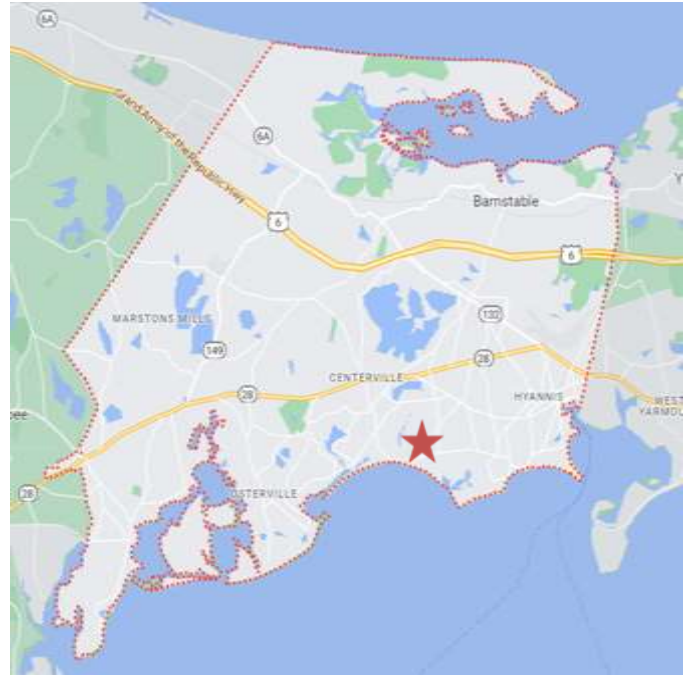
Photo 2: Looking at completely submerged culvert on downstream side of Rosa Lane.

Project Working Title: Lake Elizabeth Fish Run, Dam & Culvert Improvements

Project Location: Lake Elizabeth Drive, Centerville

Project Description: This request will cover the design and permitting required for conveying river herring into and out of Lake Elizabeth. The project will include replacement of the culvert under Lake Elizabeth Drive and reconstruction of the dam and fish ladder into Lake Elizabeth. The Red Lily Pond Protective Association, a non-profit organization in this area, has indicated they will be able to secure the necessary easements to allow the Town to conduct this work.

Project Justification: For at least the last six years, river herring counts into Lake Elizabeth have found no fish are able to enter the pond. Previous evaluations have identified barriers impeding fish passage into Lake Elizabeth. First, the culvert under Lake Elizabeth Drive is undersized and is generally impassable by fish. Second, in the event some fish made it past the culvert, they become trapped at the dam / fish ladder located at the outlet of Lake Elizabeth. Several attempts have been made to repair and improve the dam and fish ladder to allow fish passage with little success. Unfortunately, flow and geologic conditions in this area require significant reconstruction to provide fish passage. In order to restore fish passage and create spawning habitat for river herring, the culvert under Lake Elizabeth Drive needs to be replaced and the dam/fish ladder into Lake Elizabeth reconstructed.



Impact of Denial/Postponement: Without funding, the dam failure and culvert restriction will continue to prevent river herring from entering Lake Elizabeth/Red Lily Pond. In addition, the current dam failure has resulted in lower lake levels (~6" lower), which may increase aquatic vegetation in the shallow areas of the ponds.

Project Cost Estimates:		FY 2024	Future FY
	Evaluation and Feasibility Study		-
Design & Permitting		\$100,000	-
Construction or Acquisition		-	\$400,000
Project Management		-	-
Project Contingency		\$25,000	\$100,000
Total Project Cost		\$125,000	\$500,000

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	24	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$125,000	Design & Permitting			
2025	-	-			
2026	\$500,000	Construction			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Routine maintenance will be reduced as the current infrastructure is failing. However, routine maintenance will still be necessary to operate the fish run and dam. There is the potential to coordinate the culvert replacement with planned sewer expansion on Lake Elizabeth Drive which is scheduled for construction in FY2026 as part of the Long Beach Road Sewer Expansion Project.



Location of Fish Ladder/Dam and Lake Elizabeth Drive (between “Elizabeth Up/Down”)



Culvert under Lake Elizabeth Drive (Restriction 1)



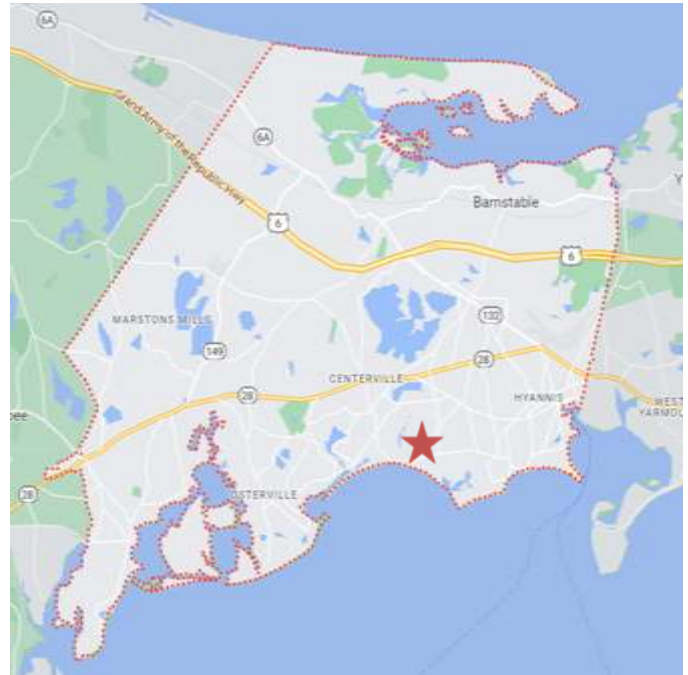
Fish Ladder/Dam at Lake Elizabeth (Restriction 2)

Project Working Title: McCarthy’s Landing Dinghy Dock

Project Location: McCarthy’s Landing, Hayward Road, Centerville

Project Description: Replacement of the dinghy dock at McCarthy’s Landing.

Project Justification: The existing dinghy dock that is affixed to the pier at McCarthy’s Landing is in need of replacement. The dinghy dock is utilized by residents to tie up small vessels (“dinghys”) which are then utilized to access boats that are stored on moorings in the Centerville River. Upon researching the dinghy dock, it was determined that there is not an active permit / license approving the installation of the dock. Permitting requirements for a dock are relatively significant and include Conservation Commission, Army Corps of Engineering, DEP/Chapter 91 License and potentially MEPA review. The dock is in a state of disrepair and requires replacement. In addition, the dock is currently accessed by a wooden ladder, which will be replaced with a new gangway to improve access.



Impact of Denial/Postponement: Currently the dinghy dock is not properly permitted/licensed. In addition, the infrastructure is in poor condition and is in need of replacement. Failure to replace the dinghy dock with a new, properly permitted dock will result in restricted access to the adjacent mooring fields.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$255,000	-
	Project Management	\$5,000	-
	Project Contingency	\$35,000	-
	All Other Cost	-	-
	Total Project Cost	\$295,000	-

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2024		Design & Permit (months)	-	Construction (months)	3
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$295,000	Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: None

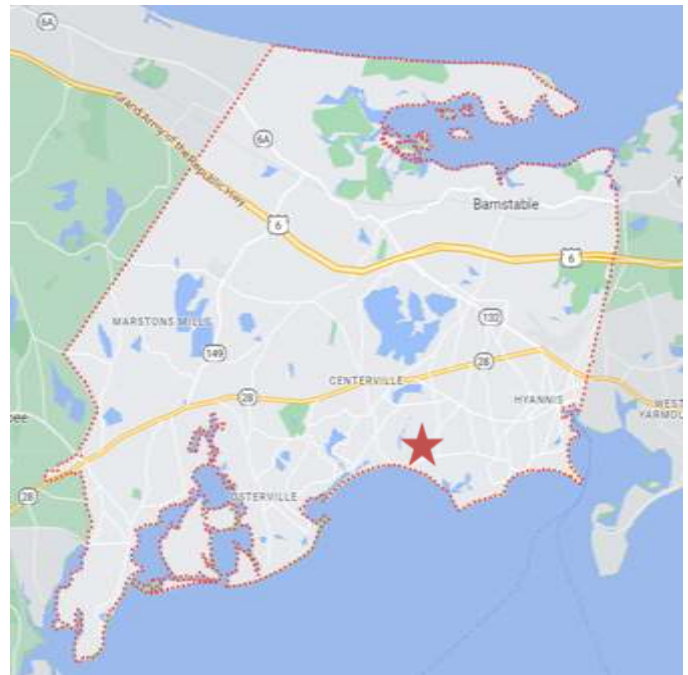


Project Working Title: Cotuit Town Dock Replacement and Structural Improvements

Project Location: 37 Oyster Place Rd, Cotuit

Project Description: This project would fund replacement of the Cotuit Town Dock to increase the docks current weight capacity to accommodate the loading associated with historic usage.

Project Justification: In 2021 an assessment of the Cotuit Town Dock determined that the allowable weight limit should be restricted to 10,000 lbs. As a result, vehicles have been restricted from using the dock. Previous operations for de-masting and masting sail boats used vehicles with cranes in excess of 10,000 lbs (33,000 lbs based on vehicle information). A follow-up alternatives analysis concluded that the dock will require replacement within the next 3-5 years. The estimated cost to replace the dock in kind is only about 7% less than the estimated cost to replace the dock with an improved load rating.



Impact of Denial/Postponement: Without funding, the dock would remain limited to traffic with a maximum gross weight of 10,000 lbs.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$90,000	-
	Construction or Acquisition	-	\$1,250,000
	Project Management	\$5,000	\$25,000
	Project Contingency	\$5,000	\$325,000
	All Other Cost	-	-
	Total Project Cost	\$100,000	\$1,600,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	18	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$100,000	Design/Permitting			
2025	\$1,600,000	Costruction			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves and Transfer from existing projects.

Operating Budget Impact now or in future: None



Solid Waste Enterprise Fund Projects Description

PROJECT: SW-24

DEPARTMENT PRIORITY: 1 of 4

2023-082

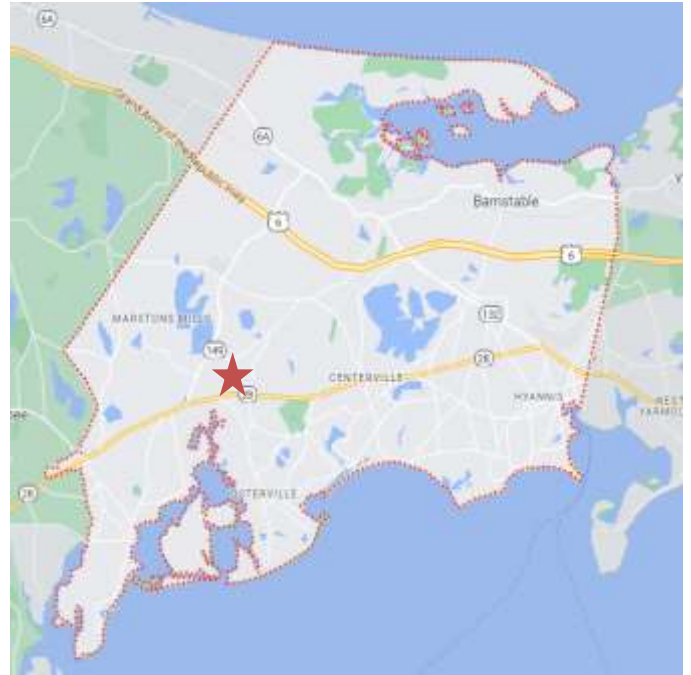
Project Working Title: License Plate Reader Technology

Project Location: Transfer Station & Recycling Center 45 Flint Street Marstons Mills, MA 02648

Project Description: Purchase and installation of License Plate Reader Technology

Project Justification: This project will refine and heighten efficiency of the permitting and entry process at the Transfer Station. This technology will eliminate the need for physical Stickers and will significantly reduce processing time associated with Sticker Sales and provide improved account management for our customers. It will also allow Gate Attendants to focus on monitoring incoming materials instead of specifically looking for Stickers.

Impact of Denial/Postponement: Denial of this request will result in a less than favorable customer experience at SWD. The current system is inefficient and confusing to the public. The office staff is overwhelmed during the 3 months of Sticker Sales and there is a need for additional staff during this time period.



Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	\$50,000	-
	Total Project Cost	\$50,000	-

Basis for Cost Estimates: Quote received from vendor.

Project Estimated Completion Date: Sept 2023		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$50,000	Construction			
2025	-				
2026	-				
2027	-				
2028	-				

Source of Funding: Solid Waste Enterprise Fund Reserves and Transfers from Existing Projects.

Operating Budget Impact now or in future: Yearly Maintenance fees. The project will significantly increase efficiency of the sales process and eliminate the need for extra office help during “renewal season”. It will also increase efficiency at the gate house and allow for a more fluid customer experience. It will eliminate the need to purchase physical stickers and other office supplies thereby approx. \$5000 per year.

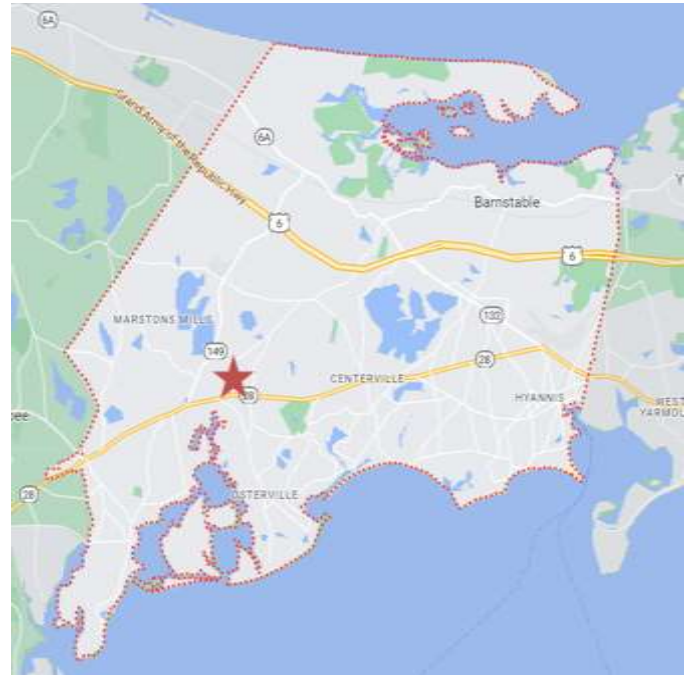
Project Working Title: Container Replacement (2 Units)

Project Location: Transfer Station & Recycling Center 45 Flint Street Marstons Mills MA 02648

Project Description: Replacement of 2 Container Units

Project Justification: The containers hold compacted household trash and recyclables for hauling and disposal. The current containers are nearing the end of their useful life, and beginning to show wear & tear and deterioration. They have large areas of rust and corrosion, and their support structure and frames are beginning to be compromised. If the containers continue to deteriorate, they will reach a point where they are no longer safe to use.

Impact of Denial/Postponement: Denial or postponement of this request could severely impact efficient operations of the Transfer Station & Recycling Center. Containers are used to collect and compact household trash and recyclables in order to transport to other facilities. Without containers, we do not have a way to transfer material from the Transfer Station to any other facility. The number of containers we have to use is enough to keep material moving but does not leave much room for error. If containers are lost due to age and deterioration, we will not be able to keep up with the amount of material that residents dispose of.



Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	\$50,000	\$250,000
	Total Project Cost	\$50,000	\$250,000

Basis for Cost Estimates: Similar equipment purchased in FY2022 and including potential increase to cost seen in other equipment purchased for the Transfer Station & Recycling Center.

Project Estimated Completion Date: Sept. 2023	Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	\$50,000	Replacement of 2 container units		
2025	\$55,000	Replacement of 2 container units		
2026	\$60,000	Replacement of 2 container units		
2027	\$65,000	Replacement of 2 container units		
2028	\$70,000	Replacement of 2 container units		

Source of Funding: Solid Waste Enterprise Fund Reserves

Operating Budget Impact now or in future: Maintenance needed to maintain the usefulness of the current containers will be reduced with their replacement. Welding and metal fabrication materials will be needed when the containers age and rust begins to show. The project can help with improved efficiencies and reduce the possibility of container failure which would limit the ability to accept and transport materials.



Water Pollution Control Enterprise Fund Projects Description

PROJECT: WPC-24

DEPARTMENT PRIORITY: 1 of 7

2023-084

Project Working Title: Pump Station Rehabilitation Program

Project Location: WPCD Pump Stations in Hyannis and Barnstable Village

Project Description: The purpose of this project is to carry out critical repairs to the Town’s sewage pump stations as identified in the Town’s 2019 Wastewater Pump Station Asset Management Plan. The focus in FY24 is the rehabilitation of the Ocean Street, Bayshore Road, Gosnold Street, Marks Path, Bearses Way, and Vacuum Sewer Pump Stations. The repairs planned for the Ocean Street, Bayshore Road, and Gosnold Street Pump Stations will include mechanical and electrical repairs aimed to extend the useful life of these stations by another 30 years while also targeting coastal resiliency improvements to harden the pump stations and protect against extreme flood events. The Bearses Way and Vacuum Sewer Pump Station repairs will improve HVAC and odor control systems. The Marks Path Pump Station will undergo design for future improvements that are necessary to address both the condition of the pump station and its capacity to accept future flows. This request may cover the cost of design and construction for repairs to other WPCD pump stations as immediate needs arise.



Project Justification: The 2019 Wastewater Pump Station Asset Management Plan evaluated 27 Town-owned sewage pump stations and prioritized the necessary improvements over a 20-year planning cycle. The pump stations were evaluated based on equipment condition, age, capacity, coastal resiliency, and energy efficiency. Necessary repairs were prioritized based on the likelihood and consequence of pump station failure. This request targets improvements that are deemed critical and in need of immediate repair. The Ocean Street, Bayshore Road, and Gosnold Street Pump Stations were constructed in 1968 and pump a combined flow of over 200,000 gallons per day of sewage to the Water Pollution Control Facility (WPCF). These pump stations fall within the 100-year flood zone and require resiliency improvements to protect against coastal flooding and to allow for quicker recovery after major storm events. The Bearses Way and Vacuum Sewer Pump Stations have ventilation and odor control systems that are nearing the end of their design lives and are in need of upgrades. The Marks Path Pump Station was constructed in 1989 and is approaching the end of its design life. The Town’s 2019 Wastewater Pump Station Asset Management Plan has identified this pump station as being at its pumping capacity and unable to accept new flows. The Town’s Comprehensive Wastewater Management Plan (CWMP) plans to add new flows to the Marks Path Pump Station, so design efforts will seek to improve the capacity of this pump station as well as its condition.

Impact of Denial/Postponement: If this project is not funded, critical components of the Town’s sewage pump stations would be at increased risk of failure. Pump station failure could result in sanitary sewer overflow into Town roadways, waterways, or into private properties, putting public health at risk.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$350,000	\$300,000
	Construction or Acquisition	\$1,100,000	\$4,100,000
	Project Management	\$100,000	\$400,000

	Project Contingency	\$200,000	\$400,000
	Total Project Cost	\$1,750,000	\$5,200,000

Basis for Cost Estimates: Engineers Cost Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	12	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,750,000	Pump Station Rehabilitation			
2025	\$2,500,000	Pump Station Rehabilitation			
2026	\$1,900,000	Pump Station Rehabilitation			
2027	\$400,000	Pump Station Rehabilitation			
2028	\$400,000	Pump Station Rehabilitation			

Source of Funding: Water Pollution Control Enterprise Fund Bond Issue and \$134,000 will be transferred from the remaining balance in Town Council order 2019-132. An application has been submitted to the Clean Water State Revolving Fund for a low interest loan, which may be eligible for principal forgiveness. Subsidies may also be available from the Cape and Islands Water Protection Fund.

Operating Budget Impact now or in future: New pumps and valves will reduce the need to carry out mechanical repairs. Ventilation upgrades will improve the operating environment within the pump station, making it less susceptible to corrosion. This project will improve the overall efficiency of the Town’s sewage pumping system. New equipment will breakdown less frequently and use less electricity. Time that was previously spent making emergency repairs can be reallocated towards preventative maintenance on other WPCD assets.



Photo 1: Ocean Street Pump Station



Photo 2: Bayshore Road Pump Station



Photo 3: Gosnold Street Pump Station



Photo 4: Marks Path Pump Station

Project Working Title: Water Pollution Control Facility Improvements – Phase I Construction

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: The purpose of this project is to carry out critical repairs to the Town’s Water Pollution Control Facility over a five year period, as identified in the Town’s 2021 Water Pollution Control Facility Asset Management Plan. The identified improvements include structural, electrical, mechanical, HVAC and process improvements to the facility. This request is for the construction of improvements to the WPCF plant water system, effluent pumping system, as well as roof replacements and HVAC improvements for the primary and secondary pump rooms.



Project Justification: The Barnstable Water Pollution Control Facility was originally constructed in the 1930’s and has been upgraded numerous times since. The most comprehensive upgrade occurred in 1980 and many of those processes continue to operate today. In order to ensure that the plant can continue to operate to its peak potential as equipment approaches the end of its design life, the Town carried out an Asset Management evaluation for the Water Pollution Control Facility. This grant funded evaluation project identified improvements to be carried out over the next five years. While many recent upgrade projects have improved specific components of the treatment process (generator, clarifiers, sludge processing building) the improvements planned for this project target equipment that falls in between those project areas. Carrying out these improvements will extend the useful life of this equipment by at least twenty years and will put the Town in excellent position to accommodate the new flows proposed in the Town’s Comprehensive Wastewater Management Plan.

Impact of Denial/Postponement: If this project is not approved, equipment will continue to operate past its expected design life. WPCD staff will continue to fix things as the break which could result in extended equipment downtime and an increased likelihood of a DEP Groundwater Discharge Permit Violation.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$150,000
	Construction or Acquisition	\$3,600,000	\$1,500,000
	Project Management	\$550,000	\$250,000
	Project Contingency	\$350,000	\$150,000
	Total Project Cost	\$4,500,000	\$2,050,000

Basis for Cost Estimates: Engineers Cost Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	0	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$4,500,000	Phase 1 of Improvements			
2025	-	-			
2026	\$200,000	Design of Phase 2 Improvements			

2027	\$1,850,000	Phase 2 of Improvements
2028	-	-

Source of Funding: Water Pollution Control Enterprise Fund Bond Issue. Construction may be eligible for State Revolving Fund (SRF) funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Routine preventative maintenance will continue with less time spent carrying out reactive maintenance and equipment repair.



Primary Pump Room



WPCD Effluent Pumps, installed in 1980

Project Working Title: Downtown Hyannis Force Main Rehabilitation – Evaluation, Design & Permitting

Project Location: Force main pipes from the running from the Ocean Street, Bayshore Road, and Old Colony Pump Stations to the Water Pollution Control Facility (WPCF) on Bearses Way.

Project Description: The purpose of this project is to complete an evaluation of alternatives, survey, and design for the rehabilitation or replacement of the Ocean Street/Bayshore Road and Old Colony Road Pump Station force mains. The Ocean Street and Bayshore Road Pump Stations share a 10-inch cast iron force main that is approaching 90 years in age. The Old Colony Road force main ranges in size from 16 to 20-inches, is constructed of asbestos cement, and is nearly 70 years old. Once a preliminary analysis of alternatives is completed and the preferred rehabilitation method is identified, the project will be designed and prepared for bidding. The goal of this project is to extend the life of these force mains by another 50+ years. These improvements will also help to provide redundancy to these critical components of the downtown Hyannis sewage collection system.



Project Justification: The Ocean Street/Bayshore Road Pump Station force main is approaching 90 years in age and is past the end of its expected design life. The Old Colony Road Pump Station force main is approaching 70 years old and is nearing the end of its design life. These mains are critical components of the downtown Hyannis sewage collection system, transporting over 850,000 gallons per day of sewage to the WPCF. These two force mains are inter-connected with a valve cluster at the intersection of South Street and Ocean Street, allowing each force main to back up the other in the event of an emergency. There are several available options for the rehabilitation of these pipes, and a proper assessment will determine which method is the most cost effective and least disruptive for Town. Options may include pipe bursting, pipe relining, a traditional dig and replacement, or a combination of these methods.

Impact of Denial/Postponement: If this project is not funded, these pipes will continue to operate past their expected design lives at increased risk of failure. Breaks in these pipes could result in overflow into Town roadways, waterways, or into private properties putting public health at risk.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$600,000
Construction or Acquisition		-	\$6,000,000
Project Management		-	\$750,000
Project Contingency		-	\$600,000
All Other Cost		\$200,000 (survey)	\$150,000
Total Project Cost		\$800,000	\$7,500,000

Basis for Cost Estimates: Engineers cost estimate. The cost estimate for future construction work is a preliminary estimate used as a placeholder for planning purposes. Once the analysis of alternatives is complete and design is underway, the cost estimate may be updated.

Project Estimated Completion Date: Summer 2024	Design & Permit (months)	12	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	\$800,000	Evaluation, Survey, Design		
2025	-	-		
2026	\$7,500,000	Construction		
2027	-	-		
2028	-	-		

Source of Funding: Water Pollution Control Enterprise Fund Bond Issue.

Operating Budget Impact now or in future: Maintenance levels will remain consistent with current levels. The likelihood of a costly emergency repair will be greatly reduced upon the completion of this project. Addressing both of these force mains provides redundancy across both pumping systems, as each force main is capable of backing up the other. If the pipes require replacement, they could both be replaced as part of the same project and within the same trench, saving on project costs.

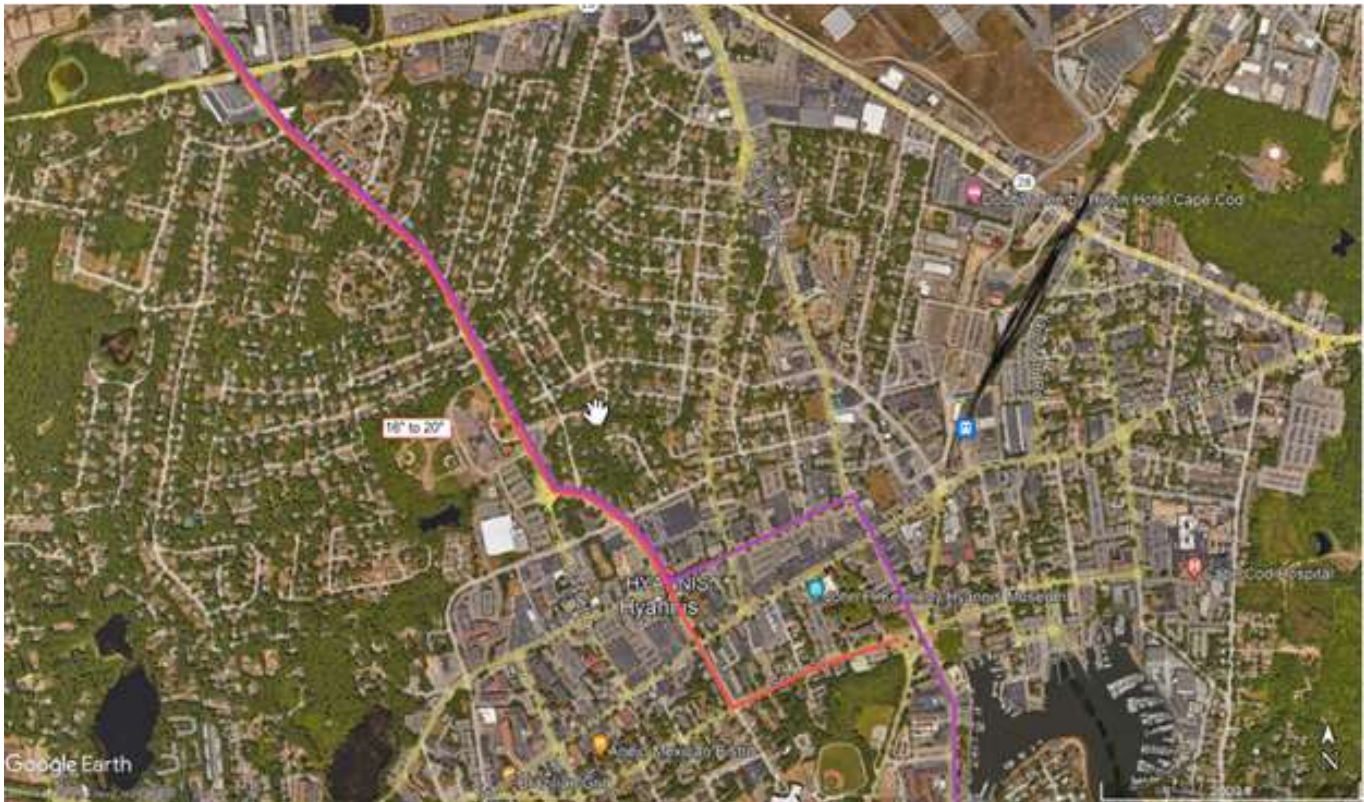


Photo 1: Location of Force Mains in Downtown Hyannis

Comprehensive Wastewater Management Plan Projects Description

PROJECT: CWMP-24

DEPARTMENT PRIORITY: 1 of 18

2023-087

Project Working Title: Park City Wind Route Sewer Expansion

Project Location: Centerville (Craigville Beach Road, Main Street Centerville, Old Stage Road, Phinneys Lane, Mother’s Park Road, and Shootflying Hill Road).

Project Description: This project will fund the install of section of sewer infrastructure along the proposed Park City Wind duct bank route. Additionally, sewer infrastructure will be installed from the intersection of Old Stage and Main Street to the proposed pump station in the area of Mother’s Park, and from Route 28 southerly on Phinney’s Lane to the proposed pump station in the area of Mother’s Park. The project will require the installation of at least five (5) new sewer pump stations.

Project Justification: The Park City Wind Route is located within areas identified in the Comprehensive Wastewater Management Plan as requiring sewer expansion. Similar to the Strawberry Hill Road Sewer Expansion Project, which was designed and executed in coordination with the Vineyard Wind 1 construction, there will be cost savings, efficiencies and reduced disturbance realized by installing sewers in coordination with the Park City Wind construction. The Host Agreement with Vineyard Wind requires Vineyard Wind to repave all of the disturbed roadways, which will result in substantial savings to the Town’s sewer expansion project.



A portion of the sewer to be installed along the Park City Wind Route requires a proposed pump station in the area of Mother’s Park.

The southern portion of the project is identified in the CWMP as a needs area for nitrogen removal within the Centerville River Watershed based upon Massachusetts Estuaries Program (MEP) modeling. The northerly portions of the project are a needs area for pond protection as residences in this area are located in close proximity to Lake Wequaquet. This project will install approximately 5.3 miles of sewers, connect approximately 350 properties to municipal sewer, collect approximately 66,000 gallons per day of wastewater and remove approximately 6.6 kg/day of nitrogen from the Centerville River Watershed.

Impact of Denial/Postponement: The Town will miss out on the opportunity to realize the cost savings, and efficiencies associated with installing the sewers in coordination with the Park City Wind Project. The area would remain unsewered which is inconsistent with the Town’s CWMP. Furthermore, the Centerville River Watershed and Lake Wequaquet would continue to receive nutrients and pollutants from septic systems.

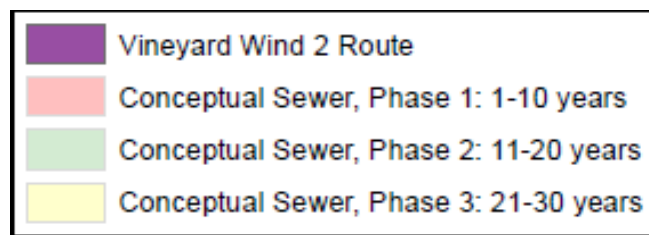
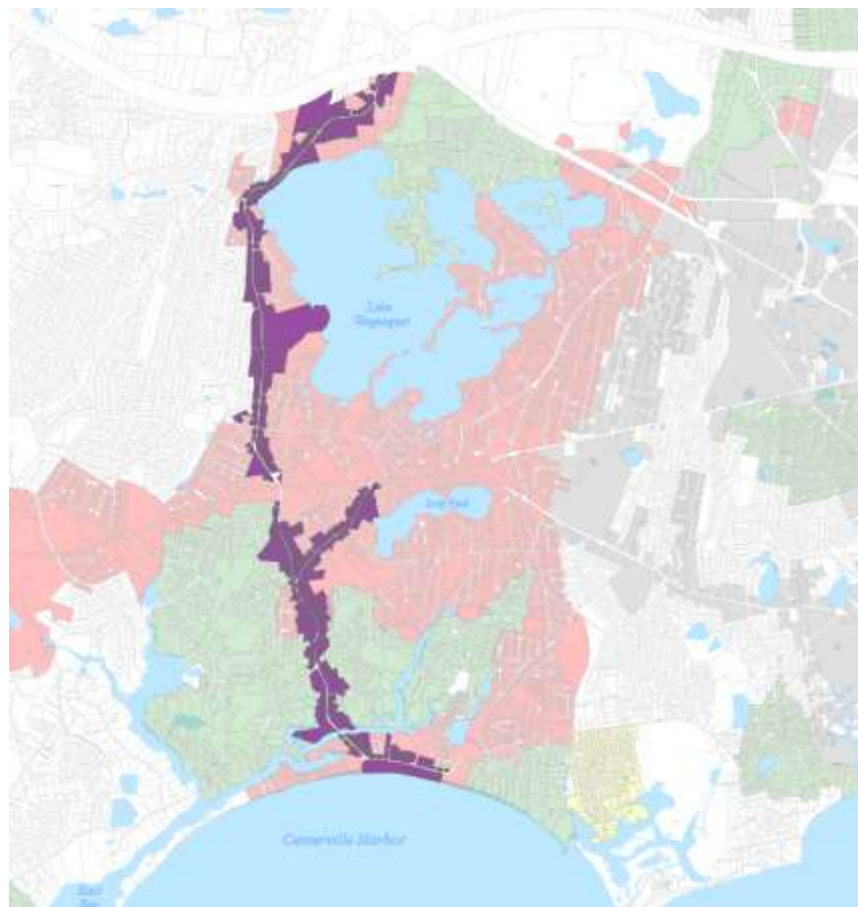
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$0	\$0
	Construction or Acquisition	\$30,900,000	\$0
	Total Project Cost	\$30,900,000	\$0

Basis for Cost Estimates: In-House Cost Estimate.

Project Estimated Completion Date: FY 2027		Design & Permit (months)	24	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$30,900,000	Construction and Construction Management			
2025					
2026					
2027					
2028					

Source of Funding: Sewer Construction and Private Way Fund Bond Issue. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Construction of the project will increase routine maintenance for the WPCD as a result of the new infrastructure being added to the system. Maintenance materials including replacement parts, specifically for pump stations. Construction of the project is anticipated to require an additional 1.0 FTE.



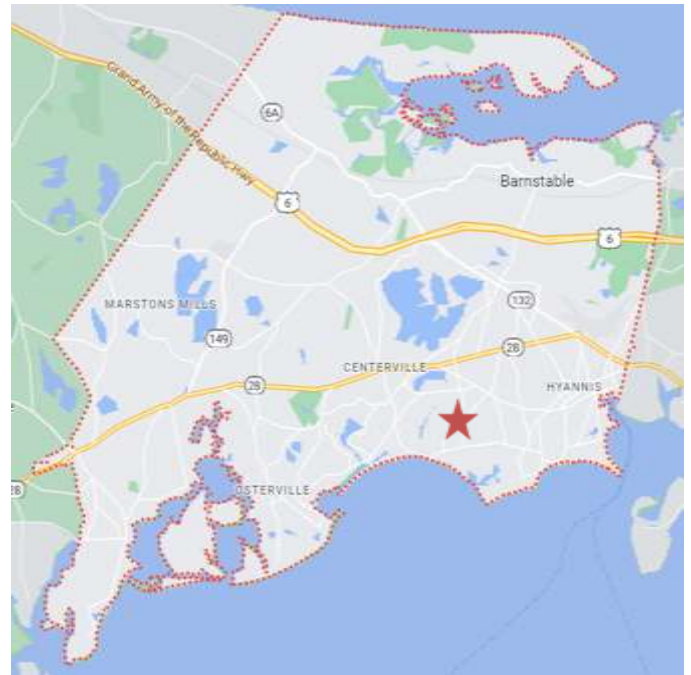
Project Working Title: Old Craigville Rd Sewer Expansion

Project Location: Old Craigville Road and adjacent neighborhoods, Centerville

Project Description: The project will expand municipal sewer to properties located on Old Craigville Road and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low pressure sewer and at least one municipal pump station. The properties served will feed to the infrastructure to be installed as part of the Strawberry Hill Road Sewer Expansion Project. This request is to fund final design of the project. Construction is anticipated to begin in FY2026.

Project Justification: The northern portions of the project area have been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling as well as drinking water well protection (COMM Water supply wells). The southerly portion of the project area has been identified as a needs area for pond protection as residences in this area are located in close proximity to Red Lily Pond and Lake Elizabeth and are completely dependent upon on-site solutions to address their wastewater. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project has been identified in Phase 1 of the CWMP as requiring sewer expansion. This project will install approximately 6.6 miles of sewers, connect approximately 440 properties to municipal sewer, collect approximately 49,000 gallons per day of wastewater and remove approximately 4.9 kg/day of nitrogen from the Centerville River Watershed.

Impact of Denial/Postponement: The area would remain unsewered which is inconsistent with the Town’s CWMP. Furthermore, the Centerville River Watershed, COMM drinking water wells, Red Lily Pond and Lake Elizabeth would continue to receive nutrients and pollutants from septic systems.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$1,500,000	0
	Construction or Acquisition	-	\$16,500,000
	Project Management	-	\$500,000
	Project Contingency	-	\$750,000
	All Other Cost	-	\$500,000 (Police Details)
	Total Project Cost	\$1,500,000	\$18,250,000

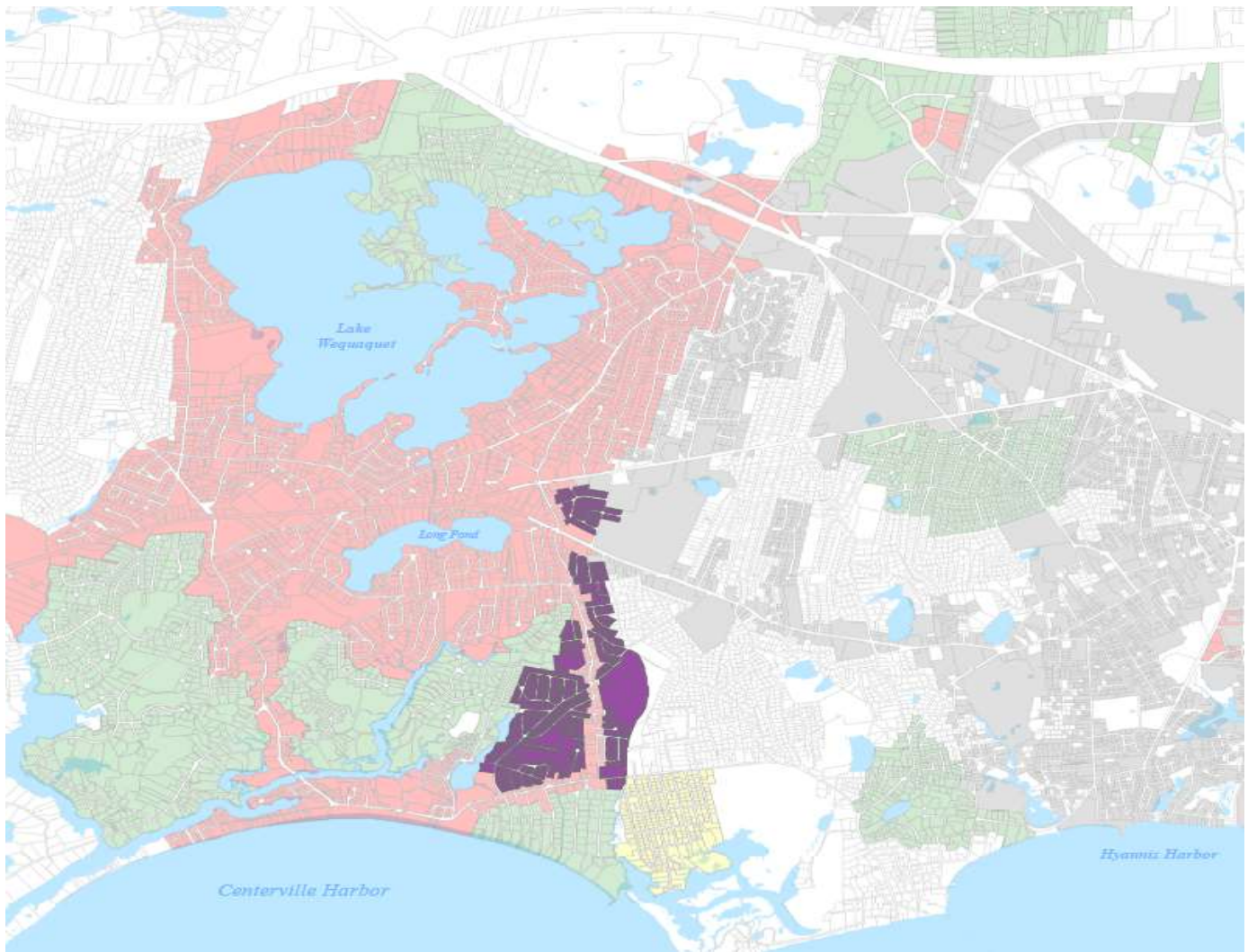
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2024	Design & Permit	36	Construction (months)	36-48
(design/permitting)	2029 (construction)	(months)			
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,500,000	Final Design and Permitting			
2025	-	-			
2026	\$18,250,000	Construction			

2027	-	-
2028	-	-

Source of Funding: Sewer Construction and Private Way Fund Reserves. Design/permitting is not eligible for State Revolving Fund (SRF) funding.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in F 2029 so operating expenses and revenue is not projected until that time.



Project Working Title: Long Beach Sewer Expansion - Preliminary Design & Survey

Project Location : Long Beach Road, Short Beach Road, Lake Elizabeth Drive and adjacent roadways

Project Description: This project will expand sewer to properties in the vicinity of Craigville Beach, Long Beach, Short Beach and Lake Elizabeth. This project will include both gravity sewer and low pressure sewer, at least one municipal pump station, and the decommissioning of the shared septic system near Lake Elizabeth. This project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY2027.

Project Justification: Residences in this area are completely dependent on on-site solutions to address their wastewater. Many of the properties in this area are within flood zones and velocity zones and have high groundwater, making replacing on-site septic systems very expensive. Additionally, the project will eliminate the need to maintain the Lake Elizabeth shared septic system. The project will utilize the sewer infrastructure being installed as part of the Strawberry Hill Road Sewer Expansion Project and the sewers associated with the Park City Wind Route Sewer Expansion Project, further utilizing the investment in those assets. As a result, this project was identified in Phase 1 of the CWMP. This project will install approximately 2.5 miles of sewers, connect approximately 160 properties to municipal sewer, collect approximately 31,000 gallons per day of wastewater and remove approximately 3.1 kg/day of nitrogen.



Impact of Denial/Postponement: The area would remain un-sewered, residents would be subject to high costs to replace failed septic systems and the Town would continue to have to maintain the Lake Elizabeth shared septic system. The pump station installed as part of the Strawberry Hill Road Sewer Expansion Project will experience low flow conditions for a longer period of time, thus not fully utilizing that asset.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$350,000	\$750,000
	Construction or Acquisition	-	\$7,000,000
	Project Management	-	\$200,000
	Project Contingency	-	\$1,050,000
	All Other Cost	-	\$250,000 (Police Details)
	Total Project Cost	\$350,000	\$9,250,000

Basis for Cost Estimates: Department of Public Works Engineering

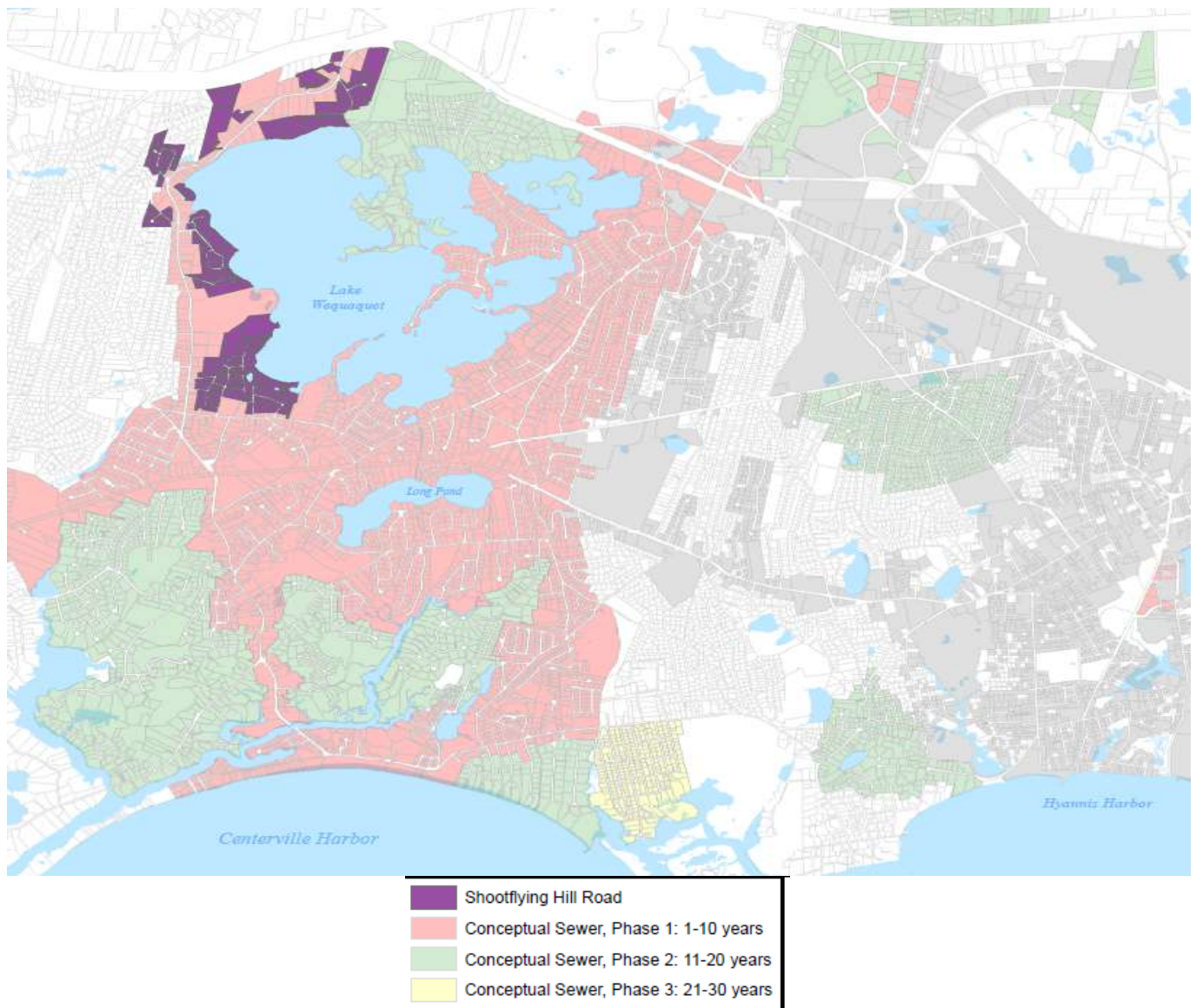
Project Estimated Completion Date: 2024 (survey), 2026 (design/permitting), 2028 (construction)	Design & Permit (months)	36	Construction (months)	24
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	\$350,000	Survey and Preliminary Design

2025	\$750,000	Final Design and Planning
2026	-	-
2027	8,500,000	Construction
2028	-	-

Source of Funding: Sewer Construction and Private Way Fund Reserves. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY2028 so operating expenses and revenue is not projected until that time.



Project Working Title: Old Yarmouth Road Sewer Expansion – Final Design and Permitting

Project Location: Old Yarmouth Road, Yarmouth Road, Joaquim Road, Bodick Road, Rosary Lane, Ferndoc Street and Route 28 from Cedar Street to Town Line.

Project Description: The project will expand municipal sewer to the north of Route 28 and east of Yarmouth Road. This project would provide municipal sewer to businesses and residences on Old Yarmouth Road, Yarmouth Road, Joaquim Road, Bodick Road, Rosary Lane, Ferndoc Street and Route 28 from Cedar Street to Town Line. The Planning and Development Department has identified this area as a region requiring sewer expansion to promote economic development. The Hyannis Water Systems Maher drinking water wells, which have experienced contamination over the years, are located immediately adjacent to the proposed sewer expansion area. As a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP) to address economic development and drinking water protection. This request is to fund survey and final design and permitting for the project. Construction is anticipated to begin in FY2026.



Project Justification: Businesses and residences in this area are completely dependent on on-site solutions to address their wastewater, which has restricted economic growth in the area. Additionally, the proposed sewer expansion area is entirely located within the Zone II to the Hyannis Water System’s Maher drinking water wells, which have experienced contamination over the years. As a result, this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP) to address economic development and drinking water protection. This project will install approximately 3.2 miles of sewers, connect approximately 130 properties to municipal sewer, collect approximately 22,000 gallons per day of wastewater and remove approximately 2.2 kg/day of nitrogen from the Lewis Bay Watershed.

Impact of Denial/Postponement: The area would remain unsewered, growth would be limited to what traditional on-site wastewater systems could sustain, and the adjacent drinking water wells would remain vulnerable to pollutants from septic systems.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$650,000	-
	Construction or Acquisition	-	\$6,500,000
	Project Management	-	\$250,000
	Project Contingency	-	\$950,000
	All Other Cost	-	\$250,000 (Police Details)
	Total Project Cost	\$650,000	\$7,950,000

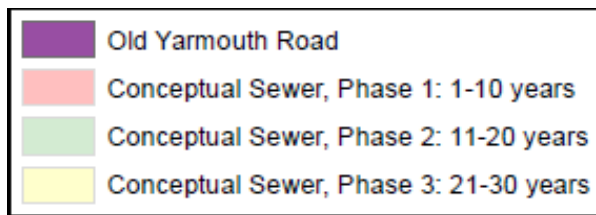
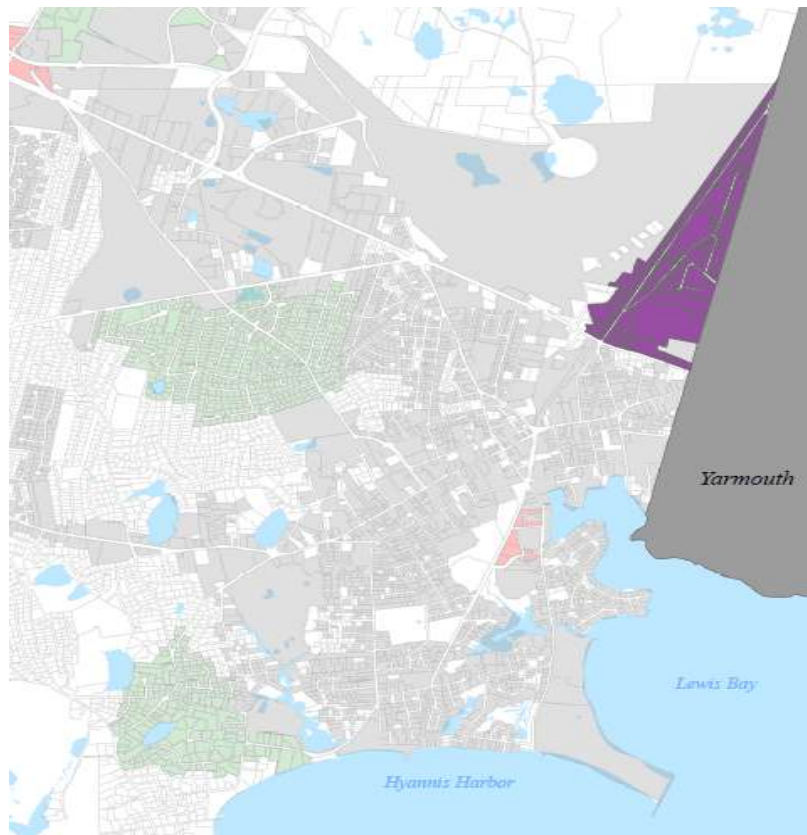
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2023 (survey), 2025 (design/permitting) 2027 (construction)	Design & Permit (months)	36	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:				

Fiscal Year	Cost	Project Description/Components
2024	\$650,000	Final Design and Permitting
2025	-	-
2026	7,950,000	Construction
2027	-	-

Source of Funding: Sewer Construction and Private Way Fund Reserves. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase routine maintenance for the WPCD because of the new infrastructure being added to the system. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY 2027 so operating expenses and revenue is not projected until the following year.



Project Working Title: Warren’s Cove Aquaculture - Feasibility Study

Project Location: Warren’s Cove, Three Bays Estuary

Project Description: This project will perform a study to evaluate the feasibility and benefit of dredging Warren’s Cove for the purpose of becoming a suitable habitat for shellfish. This study will determine suitable areas and methods for dredging these sediments and identify permitting needs and costs for construction. If restoration is feasible, then future phases will include the design, permitting, dredging of this area for the purposes of using the area for shellfish aquaculture to reduce the nitrogen load to the Three Bays Estuary.



Project Justification: The Town’s Comprehensive Wastewater Management Plan (CWMP) identified Warren’s Cove as a potential location for deploying shellfish aquaculture to reducing the nitrogen load from the Marstons Mills River into the Three Bays Estuary. However, in its current condition, Warren’s Cove is unsuitable for shellfish habitat. Therefore removal of sediments via dredging is necessary to improve the area for shellfish aquaculture. The addition of shellfish in this area can help reduce the nitrogen load to the Three Bays Estuary, improve water quality and potentially reduce the number of properties that need to connect to sewer in the Three Bays Watershed.

Impact of Denial/Postponement: Restoration of Warren’s Cove is identified as an ideal project to be implemented in the first phase (years 0-10) of the CWMP to allow for monitoring and determination of any potential sewer offsets in the second phase (years 10-20). Postponement would extend potentially extend implementation of this project beyond phase 1.

Project Cost Estimates:		FY 2024	Future FY
	Feasibility Study	\$150,000	TBD
	Design & Permitting	-	TBD
	Construction or Acquisition	-	TBD
	Project Management	-	TBD
	Project Contingency	-	TBD
	Total Project Cost	\$150,000	TBD

Basis for Cost Estimates: Consultant and DPW Engineering Department

Project Estimated Completion Date: Feasibility Study: 2024		Design & Permit (months)	TBD	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$150,000	Feasibility Study			
2025	TBD	Design & Permitting			
2026	-	-			
2027	TBD	Construction			

Source of Funding: Sewer Construction and Private Way Fund Reserves.

Operating Budget Impact now or in future: The deployment of aquaculture in Warren's Cove may require additional personnel for MEA to manage the site. If aquaculture can be successful in this location it could reduce the amount of homes that need to connect to municipal sewer in the Three Bays Watershed.



Floating algae in Warren's Cove



Ulva below the surface in Warren's Cove

Water Supply Enterprise Fund Projects Description

PROJECT: WS-24

DEPARTMENT PRIORITY: 1 of 8

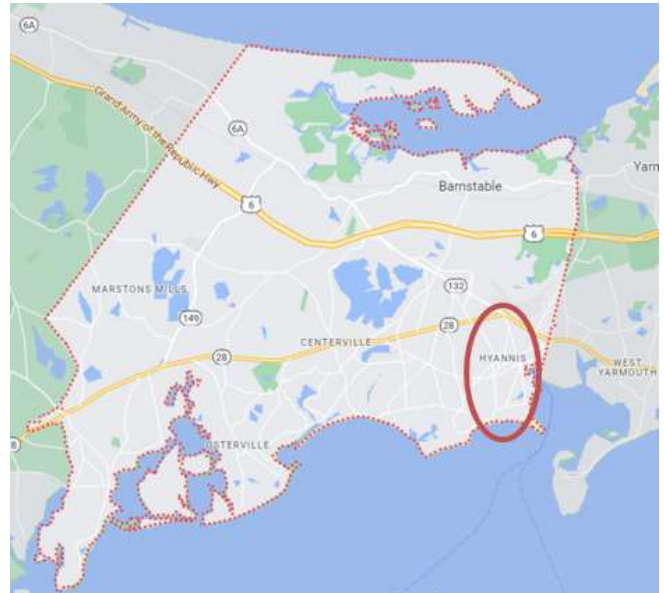
2023-092

Project Working Title: Pipe Replacement and Upgrade Program

Project Location: The drinking water distribution system for Hyannis, Hyannis Port, and West Hyannis Port.

Project Description: This is a continuation of a 30 year, phased, pipe replacement and upgrade program for the Hyannis Water System; as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan.

Project Justification: It is important to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are over 100 years old. This program is in addition to the routine maintenance and repair program to be performed by the contracted water system operator. The proposed capital budget for this pipe replacement and upgrade program is \$1,500,000 per year, and includes a capially funded water works project manager to oversee and implement this program. This continuing project will ensure the long term ability of the Hyannis Water System to provide sufficient drinking water and fire readiness protection for all its customers.



Impact of Denial/Postponement: Water distribution capacity will continue to be less reliable over time, which would limit water supply availability during emergencies, for existing customers, and preclude the ability for economic growth.

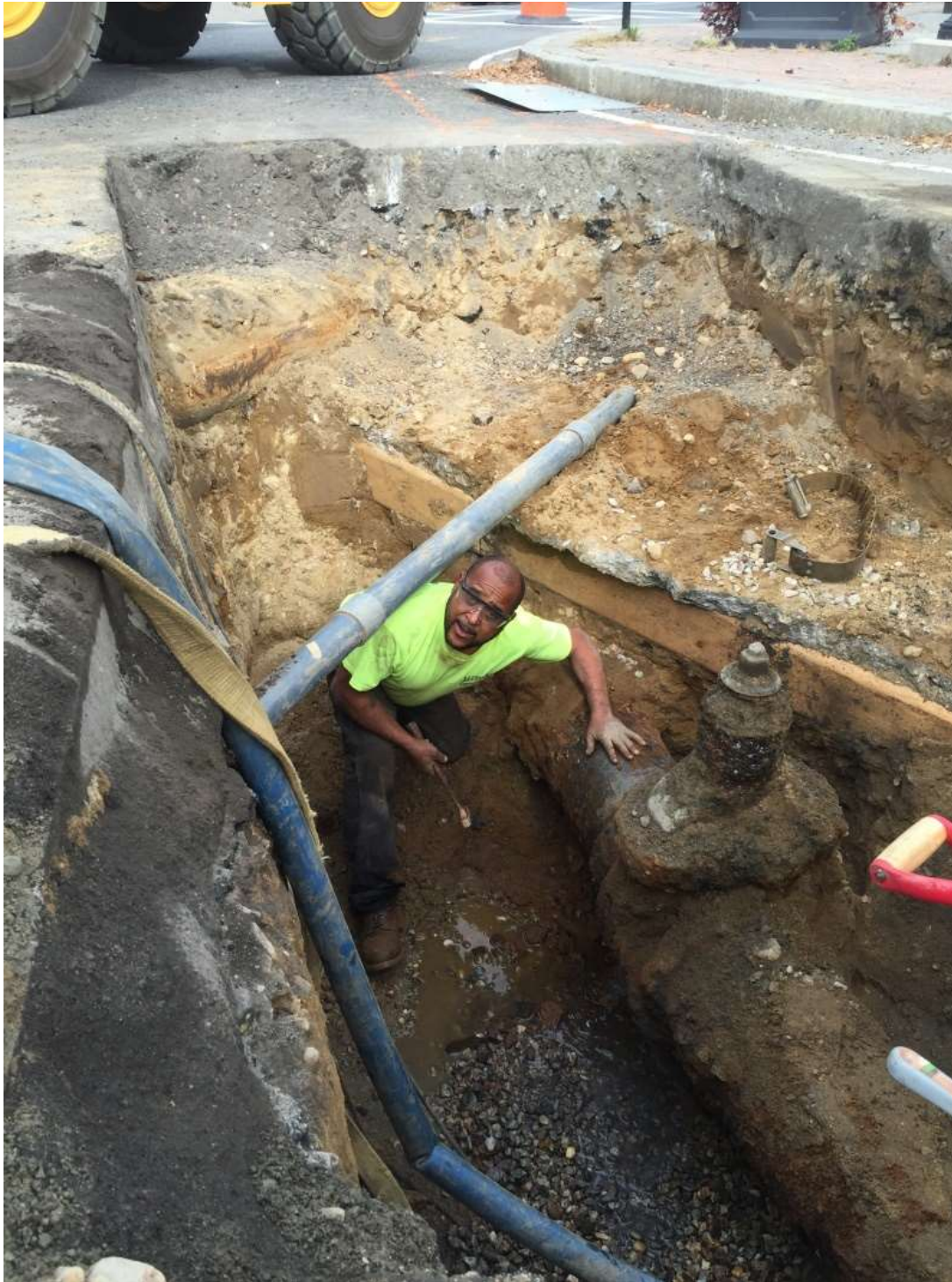
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$75,000	-
	Construction or Acquisition	\$1,425,000	\$6,000,000
	Total Project Cost	\$1,500,000	\$6,000,000

Basis for Cost Estimates: Previous years' experience.

Project Estimated Completion Date: 2024		Design & Permit (months)	4	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,500,000	Design & Construction			
2025	\$1,500,000	Design & Construction			
2026	\$1,500,000	Design & Construction			
2027	\$1,500,000	Design & Construction			
2028	\$1,500,000	Design & Construction			

Source of Funding: Water Supply Enterprise Fund Bond Issue

Operating Budget Impact now or in future: This project will not reduce routine maintenance. The synergies of executing this project in conjunction with the sewer expansion program will result in construction cost savings.

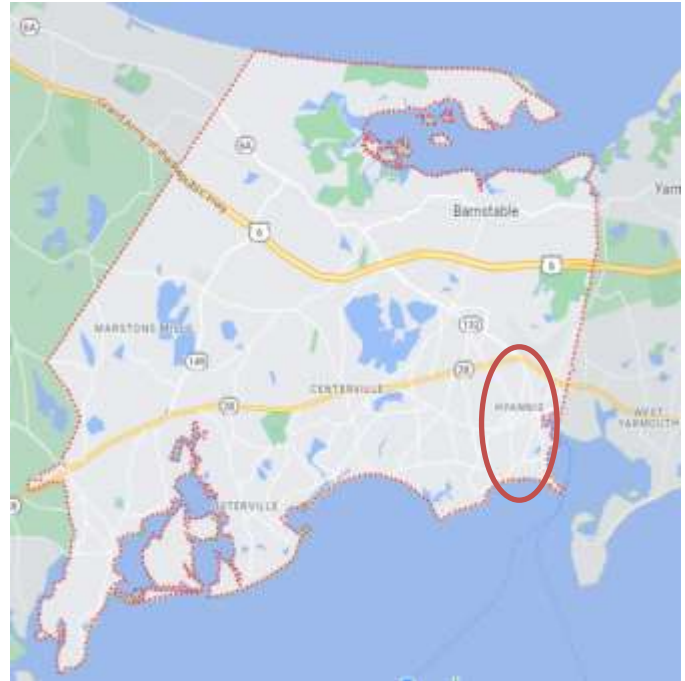


Pipe Replacement Project

Project Working Title: Wells, Pump Stations, Treatment Plant Repair and Upgrade Program

Project Location: Existing wells, pumping stations, water-treatment and other facilities in the Hyannis Water System.

Project Description: This CIP is a continuation of the repairs and upgrades program started in FY2007. With the exception of the Straightway well #2, all of the wells were constructed in the early to mid-1970. The prior year’s monies were used to install emergency generators, lighting, and fencing and implement paving improvements. Starting in FY2014 the Hyannis Water Board approved the recommendation to implement a structured rehabilitation program dealing with major facility components needing upgrades or replacements. These facility components and cost allocations are: \$45,000 for buildings, \$40,000 for process control equipment, \$40,000 for safety and security components and \$45,000 for electrical equipment. Project management and oversight will be provided by a project engineer, partially funded out of this program in the amount of approximately \$30,000.



Project Justification: It is appropriate to implement a structured program to repair and upgrade the wells, pump stations, treatment plants and other Hyannis Water System facilities as many of these components are approximately 50 years old. This program is in addition to, and may supplement, the routine maintenance program to be performed by the contracted water system operator.

Impact of Denial/Postponement: Water supply and pumping capacity will become less reliable over time, thus limiting water supply availability for all customers, and during emergencies.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$20,000	-
	Construction or Acquisition	\$141,500	-
	Project Management	\$30,000	-
	Project Contingency	\$8,500	-
	Total Project Cost	\$200,000	-

Basis for Cost Estimates: Previous years’ experience.

Project Estimated Completion Date: 2024		Design & Permit (months)	2	Construction (months)	10
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$200,000	Design & Construction			
2025	\$200,000	Design & Construction			
2026	\$200,000	Design & Construction			
2027	\$200,000	Design & Construction			
2028	\$200,000	Design & Construction			

Source of Funding: Water Supply Enterprise Fund Reserves.

Operating Budget Impact now or in future: This project will reduce routine maintenance.

Project Working Title: Mary Dunn 1 Water Storage Tank Rehabilitation Project, Construction.

Project Location: Mary Dunn Water Storage Tanks, 1230 Mary Dunn Road, Barnstable.

Project Description: Construction related to the rehabilitation and painting of the Mary Dunn 1 water storage tank.

Project Justification: The Mary Dunn 1 water storage tank is in need of some minor repairs and a new coating on the interior and exterior of the tank. This issue was described in the tank inspection report by Advanced Solutions, dated March 30, 2021. This 370,000 gallon tank was built in 1911 and is in good structural shape. It serves together with the Mary Dunn 2 tank (1,000,000 gallons) as the distribution water storage facility for the Hyannis Water System. The roof was replaced and site improvement work was done in 2018. This CIP is a funding request for the construction related to the rehabilitation and painting project.



Impact of Denial/Postponement: The Mary Dunn 1 water storage tank will continue to corrode and eventually start leaking. This water storage tank is critical for the Hyannis Water System when any maintenance or repairs need to be done on the Mary Dunn 2 water storage tank.

Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting, Evaluation		-
Construction or Acquisition		\$720,000	-
Project Contingency		\$72,000	-
Project Management		\$135,000	-
All Other Cost		-	-
Total Project Cost		\$927,000	-

Basis for Cost Estimates: An estimate from Dewberry Engineers.

Project Estimated Completion Date: 2025		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$927,000	Construction			

Source of Funding: Water Supply Enterprise Fund Bond Issue

Operating Budget Impact now or in future: This project will not reduce routine maintenance. This project does not require an additional full-time equivalent (FTE) position to monitor.



Project Working Title: New Well Exploration Program, Planning & Permitting

Project Location: Various locations in the Town of Barnstable.

Project Description: This CIP is a funding request for the continuation of the new well exploration program to find additional drinking water wells for the Town owned water system.

Project Justification: The 2019 new sources alternatives evaluation report by Weston & Sampson Engineers confirmed the need to find new drinking water wells for the municipal water system. An initial round of test well drilling and sampling was completed on various parcels in the Town of Barnstable and a few preferred parcels were identified. The requested funds are needed to supplement existing funding and finalize the planning and permitting phase of the project.

Impact of Denial/Postponement: The impact of the denial or postponement of this funding request will delay the new well exploration program further to solve the water production deficiency in the municipal water system.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$527,000	-
	Construction or Acquisition	-	-
	Project Management	-	-
	Project Contingency	\$93,000	-
	Total Project Cost	\$620,000	-

Basis for Cost Estimates: Previous years' experience.

Project Estimated Completion Date: 2031		Design & Permit (months)	72	Construction (months)	36
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$620,000	Planning & Permitting			
2025	-	-			
2026	-	-			
2027	-	-			

Source of Funding: Water Supply Enterprise Fund Bond Issue and Transfers from existing Projects.

Operating Budget Impact now or in future: This project will not reduce routine maintenance.

Project Working Title: Mary Dunn 4 Well Building, Construction.

Project Location: 789 Mary Dunn Road

Project Description: Construction of the Mary Dunn 4 Well building, motor & pump, driveway, fencing & gates, electric & gas utility hook-up, generator, SCADA and security systems.

Project Justification: The Mary Dunn 4 Well building project funding is needed to finalize the well re-activation project started in 2017 as an interim response measure to the PFAS contamination event. Recent bid price escalations and SRF requirements have made it necessary to make this funding request. The remaining funds in previously approved appropriations for this purpose will be returned to the water supply reserve fund.

Impact of Denial/Postponement: The impact of the denial or postponement of this funding request will delay the urgently needed completion of an additional well to help solve the water production deficiency in the municipal water system.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$760,750	-
	Construction Contingency	\$134,250	-
	Project Management	\$100,000	-
	All Other Costs	\$5,000	-
	Total Project Cost	\$1,000,000	-

Basis for Cost Estimates: Weston & Sampson engineers proposal and previous project’s experience.

Project Estimated Completion Date: 2025		Design & Permit (months)	2	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,000,000	Construction			
2025	-	-			

Source of Funding: Water Supply Enterprise Fund Bond Issue

Operating Budget Impact now or in future: This project will not reduce routine maintenance. No future materials will need to be purchased.

Project Working Title: Mary Dunn Road Water Main Replacement, Construction.

Project Location: Mary Dunn Road

Project Description: Construction of the Mary Dunn Road water main replacement from the intersection with Airport Way and the water storage tanks on the North-side of the Route 6 bridge.

Project Justification: The Mary Dunn Road water main project funding is needed to replace a 16 inch drinking water transmission pipe built in 1911. This water line connects the water storage tanks with the water production facilities on Mary Dunn Road and delivers water to the Hyannis area.

Impact of Denial/Postponement: The impact of the denial or postponement of this funding request will delay the needed water main replacement and does not resolve a redundancy issue.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		-
Construction or Acquisition		\$2,282,250	-
Construction Contingency		\$402,750	-
Project Management		\$240,000	-
All Other Costs		\$75,000	-
Total Project Cost		\$3,000,000	-

Basis for Cost Estimates: Previous project’s experience.

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$3,000,000	Construction			
2025	-	-			

Source of Funding: Water Supply Enterprise Fund Bond Issue

Operating Budget Impact now or in future: This project will not reduce routine maintenance. No future materials will need to be purchased.

Department of Public Works Project Descriptions

PROJECT: DPW-24	DEPARTMENT PRIORITY: 2 of 55	2023-098
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Project Working Title: Town Hall Roof Analysis and Repair

Project Location: 367 Main Street and 230 South Street

Project Description: During the masonry cleaning and sealing project at Town Hall and the School Administration Building movement was discovered in the masonry on the South West corner of the Town Hall. Further investigation found a new crack in the masonry in the attic that carried through all layers of masonry. This crack indicates movement and separation of masonry elements due to structural forces from the roof. This project would investigate the failure and install structural reinforcing to compensate. The slate roofs on both the Town Hall and School Administration Building are at a point where inspection and spot repairs are necessary.



Project Justification: During masonry cleaning and sealing a newly formed crack was found. Structural review of the condition revealed that the movement occurred through the entire width of masonry and could be seen in the attic. At the time the condition was documented but funding did not allow and in-depth analysis and reinforcement design. Measures need to be taken to analyze the movement and make corrective action.

Impact of Denial/Postponement:

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$25,000	-
	Construction or Acquisition	\$113,850	-
	Project Management	\$25,000	-
	Project Contingency	\$11,385	-
	All Other Costs	\$10,000	-
	Total Project Cost	\$185,235	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: Sumer 2024	Design & Permit (months)	6	Construction (months)	8
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	\$185,235	Design and Construction
2025	-	-
2026	-	-
2027	-	-
2028	-	-

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: An existing facility will be fully utilized.

Project Working Title: School Administration Building Mechanical Cooling Upgrades – Phase II**Project Location:** 230 South Street, Hyannis**Project Description:** Constructed in 1897 and remodeled in the 1960's and 1980's many building systems at the School Administration Building are outdated and in need of improvements.

Funding for mechanical system improvements was broken into three stages at the request of the finance department in 2018: Stage 1, life safety & emergency mechanical upgrades. Stage 2, HVAC improvements, Stage 3, elevator replacement. Stage 4, 250 KW emergency generator installation

Stage 1 elements were funded in FY20 and are under construction.

Stage 2 elements are in design.

Stage 3 work is being requested as part of this FY24 Capitol Improvement Request and includes:

- First floor restroom upgrades and expansion to meet handicap access requirements.
- Installation of vestibule doors
- Elevator replacement, including security improvements to controls.
- Slate roof repairs
- Hazardous materials abatement
- Replacement of the buildings backflow preventers
- Unforeseen improvements exposed as part of the work.

Any remaining design funds will be utilized for unforeseen items discovered during the design process or subsequent phases.

Project Justification: A recently completed elevator report recommends its replacement. Working components are aged. Some elevator elements cannot be inspected. Replacement of the elevator has become a priority

The Slate roof systems need periodic inspection and spot maintenance. It has been 9 years since any repair work was done to the roof. Some slates need to be replaced, others secured. There are a number of hip shingles that are missing.

Due to the configuration of the building, securing the first floor is difficult. We propose installing a set of doors to create a secure vestibule.

The basement restroom has been upgraded for accessibility. FY24 funding will allow handicapped access upgrades to the first floor restrooms which are accessed by the public.

Impact of Denial/Postponement: The building condition study indicates the need for significant mechanical, elevator and accessibility improvements. If left as is, further deterioration will occur with increased scope of mechanical repairs resulting in additional inflation and restoration cost.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$102,484	\$54,000
	Construction or Acquisition	\$854,040	\$450,000
	Project Contingency	\$85,404	\$45,000
	Project Management	\$50,000	\$36,000
	All Other Costs	\$50,000	\$30,000
	Total Project Cost	\$1,141,929	\$615,000

Basis for Cost Estimates: Professional cost estimate

Project Estimated Completion Date: -	Design & Permit (months) -	Construction (months) 18
Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	\$1,141,929	Design and construction stage 3
2025	\$615,000	Design and construction stage 4
2026	-	-
2027	-	-
2028	-	-

Source of Funding: General Fund Bond Issue

Operating Budget Impact now or in future: There is a 5% to 8% energy savings expected from mechanical upgrades.



Project Working Title: Hyannis Youth and Community Center Facility Mechanical Improvements**Project Location:** 141 Bassett Ln, Hyannis

Project Description: This project has been divided into multiple years of work, each addressing specific elements of repair as identified by consultants. Some of the repairs may yet to be discovered. This project continues to replace and upgrade worn mechanical systems as discovered under analysis funded in FY20.

FY24 funding will replace units ERV2 which serves the gym and locker rooms. This unit will be replaced with the inclusion of CO2 demand control, and volume dampers. All units will have stainless steel interiors and E coating on all coils. Supply air will include ultra-violet light sterilization. Any remaining project funds will be used to implement improvements scheduled for following years as deemed appropriate.

FY25 funding will replace the MAU1 unit which provides makeup air to parts of the building. Currently the unit is not providing adequate temperatures and humidity to the interior spaces. An interlock with the kitchen vent system will be installed.

FY26 funding will replace the DH1 unit which provides dehumidification to rink 1.

FY27 funding will address interior finish and life safety element replacements as outlined in the facility management plan completed by Facility Dude in 2018.

Project Justification: The Department Of Public Works assumed maintenance responsibilities for the Hyannis Youth and Community Center in October of 2016. DPW immediately commissioned a facility condition assessment to develop a comprehensive action plan. This capital improvement program is based on that engineering evaluation. Engineering funds appropriated in FY19 have been used to engineer replacement of deteriorated building and mechanical elements. Funding in FY20 replaced portions of the flat roof and provided for mechanical designs. Funding in FY21 replaced shingled roof systems and designs for improved police presence. FY22 and FY23 funding replaced critical mechanical units. This funding request for FY24 continues the improvement effort with replacement of ERV 2 which serves the gym and locker rooms.

Impact of Denial/Postponement: Continued deterioration of indoor air quality, temperature and humidity control.

Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting	\$136,125	\$212,651
	Construction or Acquisition	\$1,361,250	2,126,512
	Project Management	\$108,900	\$170,121
	Project Contingency	\$136,125	\$212,651
	All Other Cost	\$10,000	\$30,000
	Total Project Cost	\$1,752,400	\$2,751,935

Basis for Cost Estimates: Facilities Management Report. Mechanical engineer evaluation.



Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	10
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,752,400	ERV2 Replacement, MAU1 Replacement, Balancing, Controls			
2025	\$802,000	Control System Upgrades			
2026	\$1,409,200	DH1 Replacement with demand control and duct modifications			
2027	\$540,735	Interior Improvements per facility management plan			
2028	-	-			

Source of Funding: HYCC Enterprise Fund Bond Issue.

Operating Budget Impact now or in future: Reduction of routine maintenance.



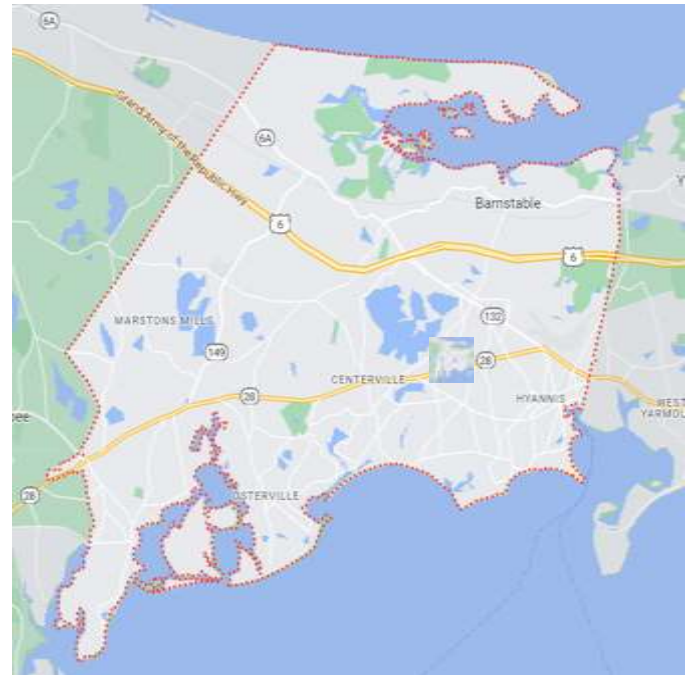
Project Working Title: DPW Admin Building Office Expansion

Project Location: 382 Falmouth Road, Hyannis

Project Description: This project will continue expansion of office areas into a portion of the existing garage space and allow the renovation of the existing women’s restroom. This project continues renovation and expansion work to meet expanding department space demands.

Project Justification: The DPW is projected to add an additional 20 to 25 technical staff to help manage the CWMP. The current facility does not have room for this increase. Additionally, this project will provide much needed accommodations for our growing female staff, currently there is only one toilet for all female employees in the building, and office space is needed as staff has filled every available slot in the building.

\$200,000 appropriated in FY22 for this project will be added to the FY24 request to allow for design and construction.



Impact of Denial/Postponement: The DPW feasibility study has shown that greater efficiency will be realized through consolidation of the Administrative and Highway offices at this site. Once the work is completed, the remaining staff trailer will then be demolished. Decreased operational and utility costs will be realized by elimination of the last trailer with the renovation

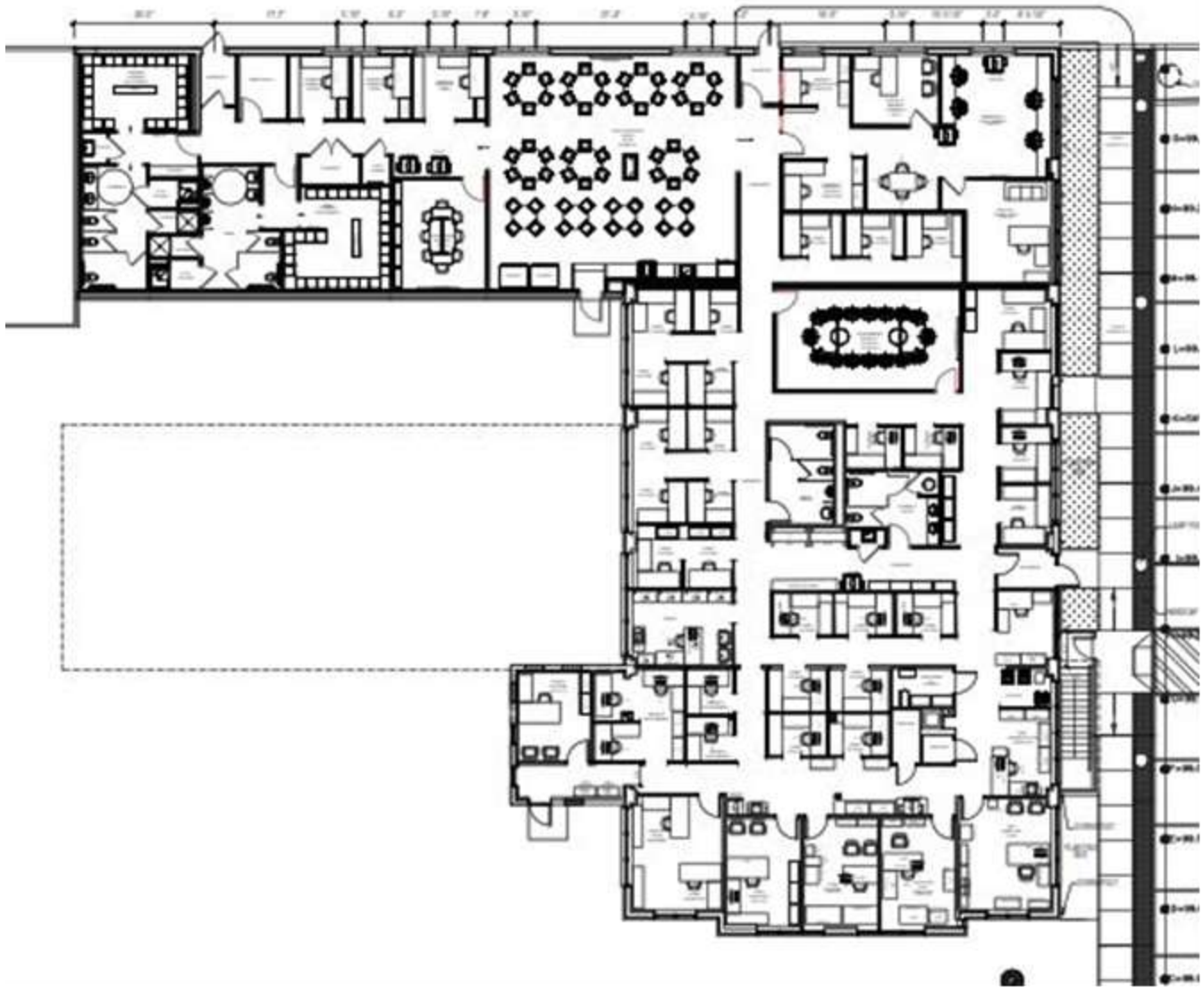
Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting & Implementation	\$20,000	-
	Construction	\$300,000	-
	Project Management	\$20,000	-
	Project Contingency	\$50,000	-
	All Other Costs	\$10,000	-
	Total Project Cost	\$400,000	-

Basis for Cost Estimates: DPW Engineering

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$400,000	Design and Construction			
2025	TBD	-			
2026	TBD	-			
2027	TBD	-			
2028	TBD	-			

Source of Funding: General Fund Reserves and Transfer from Existing Projects.

Operating Budget Impact now or in future: TBD



Project Working Title: Public Roads Maintenance

Project Location: Road rehabilitation work, milling, reclaiming, reconstructing and/or repaving of Town roadways. This year's program anticipates repairs to the following roadways: Old Stage Road, Centerville/W. Barnstable; Gosnold Street, Hyannis; Main Street and Old Falmouth Road in Marstons Mills; Eel River Road and Parker Road in Osterville. Other roads may be substituted if necessary due to accelerated deterioration rates, unexpected damages, opportunities to address certain roads with other funding, or other factors. Drainage projects (approx. 20 locations), chipsealing and preventive maintenance are also planned for various roads town-wide (approx. 6-8 miles) to extend their service life. Associated costs, including personnel, are included in this project.

Project Description: Repairs may include one of several different approaches including full depth reconstruction, reclamation, asphalt overlay, milling and overlay, applying a chipseal surface layer or cracksealing. In addition to surface repairs, projects typically include installation or upgrading of drainage systems, curbing and sidewalks wherever practicable. Traffic calming and ADA accessibility will also be incorporated where possible and as appropriate.

Project Justification: The Pavement Management Program's current backlog is approximately \$21 million for public road repairs. The Town also has a backlog of approximately 150 locations where drainage improvements are required. The DPW receives numerous requests for speed evaluations on public roads, and traffic calming investigations which take resources to assess. There are numerous locations where pedestrian safety and ADA accessibility improvements are warranted. Continued investment in roadway maintenance projects prevents accelerated deterioration of the roadway network which would otherwise result in the more costly need to reconstruct of roadways.

Impact of Denial/Postponement: The impact of denial or postponement will be accelerated deterioration of our public roadway network resulting in public safety hazards and liability, potential damage to private property, and increased repair costs. One example is the chipseal projects that are proposed; allowing these roads to deteriorate would require more expensive maintenance operations such as milling and placing an asphalt overlay that would cost significantly more than the proposed preventative maintenance.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$75,000	\$300,000
	Construction or Acquisition	\$2,800,000	\$12,600,000
	Project Management	\$450,000	\$1,800,000
	Project Contingency	\$350,000	\$1,400,000
	All Other Costs	\$75,000	\$300,000
	Total Project Cost	\$3,750,000	\$16,400,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$3,750,000	Design and Construction			
2025	\$3,950,000	Design and Construction			
2026	\$4,050,000	Design and Construction			
2027	\$4,150,000	Design and Construction			
2028	\$4,250,000	Design and Construction			

Source of Funding: Capital Trust Fund Reserves

Operating Budget Impact now or in future: Investments in roadway maintenance projects can prevent more costly roadway improvements, such a full roadway reconstruction.

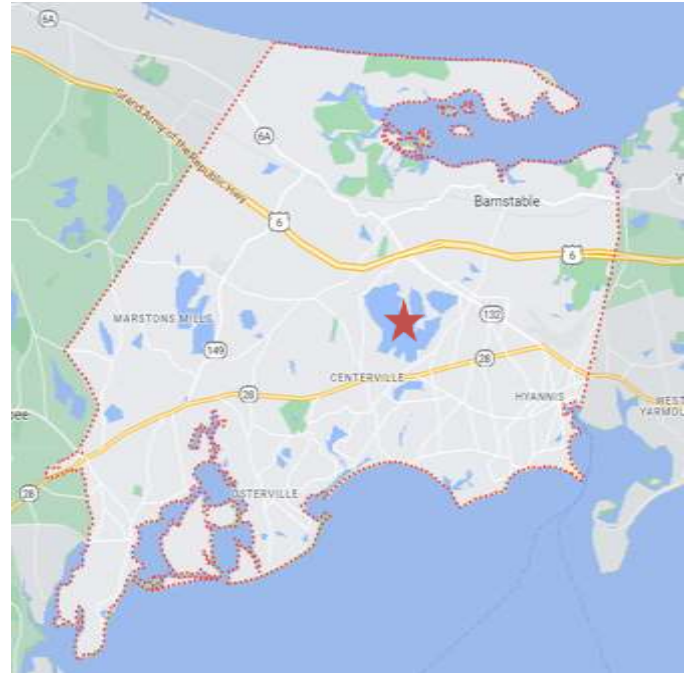


Public Roads in need of Repair

Project Working Title: Freshwater Ponds –Wequaquet Lake, Bearses Pond, and Gooseberry Pond Monitoring & Management Plan Program

Project Location: Freshwater Ponds –Wequaquet Lake, Bearses Pond, and Gooseberry Pond Monitoring & Management Plan Program

Project Description: This project will fund the continuation of the water quality monitoring and management plan development program which will allow the Town to better understand sources that impair our freshwater ponds and recommend solutions. The management plan is developed in a two phase cycle. The first phase consists of monitoring all nutrient sources, including: in-pond water quality, sediment nutrient release, stormwater inputs, groundwater input, dissolved oxygen, phytoplankton composition (including cyanobacteria), and stream inputs, when applicable. The second phase involves the development of a management plan report (included in this request) that will be presented following the completion of the monitoring, recommending solutions and cost estimates for restoring pond water quality and mitigating algae blooms.



To date, the Shubael Pond, Long Pond Marstons Mills, and Lovells Pond management plans have been funded, along with continued sample collection in the spring and fall at 25 Great Ponds through the Pond and Lake Stewards Program (PALS). It is envisioned that this will be a recurring project for developing pond and lake management plans, which will ultimately be used to guide the Town in future management/implementation of solutions for its freshwater resources. FY24 funds are anticipated to be used to perform water quality monitoring and development of a management plan report for Wequaquet Lake, Bearses Pond, and Gooseberry Pond. These three ponds must be performed together because they are hydrologically connected.

Project Justification: Many of the Town’s ponds are impaired. These water quality issues can cause pond closures and are unpalatable to residents and visitors who utilize the pond for swimming, boating, fishing, and other recreational activities. Several citizens groups have approached the Town looking for solutions to poor water quality in freshwater ponds, in particular cyanobacteria. In many cases the specific cause is unknown or not fully quantified, preventing the Town from understanding which sources need to be remedied in order to restore pond health. Through these management plan reports, the Town aims to take a holistic approach to understanding the issues that impair our fresh water resources and ultimately how to appropriately manage them based on their unique characteristics.

Impact of Denial/Postponement: The impact of anticipated sewer infrastructure on Lake Wequaquet, Bearses, and Gooseberry will be better understood by studying the ponds prior to sewer connections. This will effort will identify the solutions that are needed to manage these ponds.

Project Cost Estimates:		FY 2024	Future FY
	Monitoring & Management Plan	\$245,000	\$670,000
	Project Contingency	\$25,000	\$70,000
	Total Project Cost	\$270,000	\$740,000

Basis for Cost Estimates: Costs based on scope of work provided by the UMASS Dartmouth school for Marine Science

and Technology in 2022.

Project Estimated Completion Date: 2026		Design & Permit (months)	-	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$270,000	Wequaquet, Bearses, and Gooseberry Pond Management Plan			
2025	\$135,000	Long Pond Centerville (anticipated) Management Plan			
2026	\$405,000	Mystic Lake, Middle Pond, Hamblin Pond (anticipated) Management Plan			
2027	\$200,000	Hinckley Pond, Parker, No Bottom Pond (anticipated) Management Plan			
2028	TBD	TBD Pond Management Plan			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Not applicable. This project is an evaluation.



Cyanobacteria scum at Lovells Pond Beach



Cyanobacteria scum at Holly Point Beach, Bearse's Pond on 06/08/2022



Shubael Pond, cyanobacteria bloom on 7/19/20

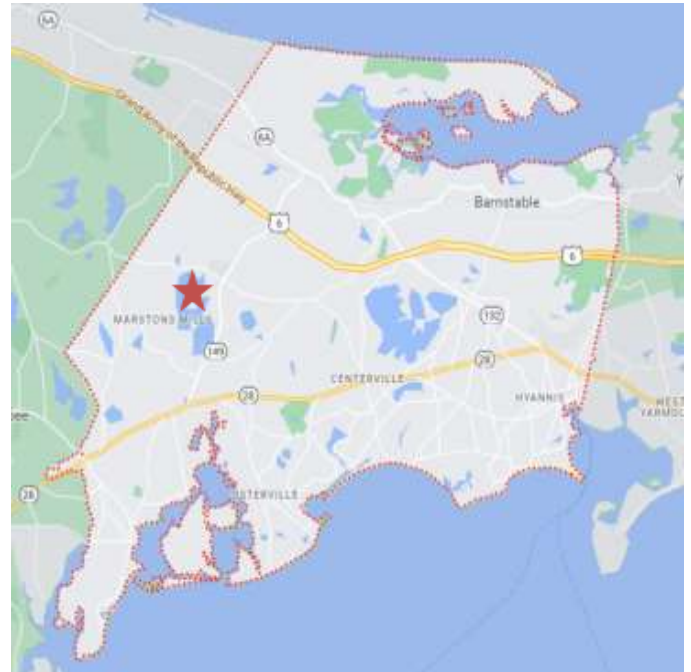


Long Pond Marstons Mills, cyanobacteria picture featured on Boston news channel 5 on 7/9/2020

Project Working Title: Mystic Lake Alum Treatment

Project Location: Mystic Lake, Marstons Mills

Project Description: This project will fund the permitting and treatment of Mystic Lake with alum, including associated water quality monitoring before, during, and after the treatment. Alum (aluminum sulfate) application must be permitted through the local conservation commission and will require additional permits to ensure environmental conditions remain safe for wildlife, including endangered species. Water quality samples will be measured before, during and after treatment to ensure safe implementation and tracking of water quality improvements associated with the alum treatment.



Project Justification: Mystic Lake was treated with alum in the Fall of 2010, after experiencing two cyanobacteria blooms that resulted in the death of over 2 million mussels, including some endangered species. The National Heritage of Endangered Species Program (NHESP) restricted the alum treatment to less than what was originally proposed to control phosphorus release from the sediments of Mystic Lake. Water quality evaluations completed since 2011 have found that the 2010 alum treatment resulted in reduced phosphorus concentrations in the bottom water, but not as much as desired, based on periodic lower water clarity and occasional visible cyanobacteria accumulations. A report commissioned by the Indian Ponds Association recommends another alum treatment for Mystic Lake (Mystic Lake Status Update 2020 by Water Resource Services, Inc.).

Impact of Denial/Postponement: Phosphorus levels will not decrease without management. Management of the pond and or watershed needs to be performed in order to maintain low phosphorus levels and prevent the occurrence of cyanobacteria.

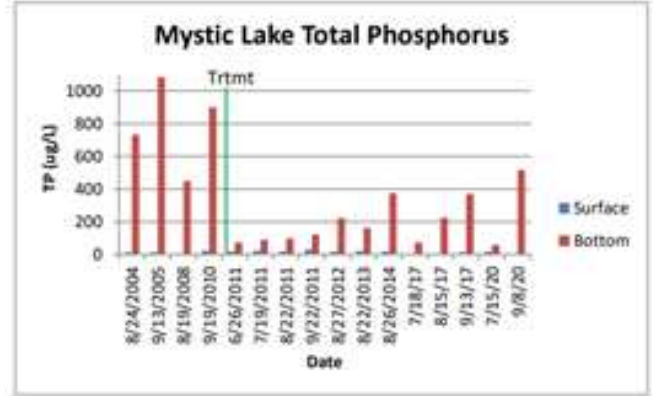
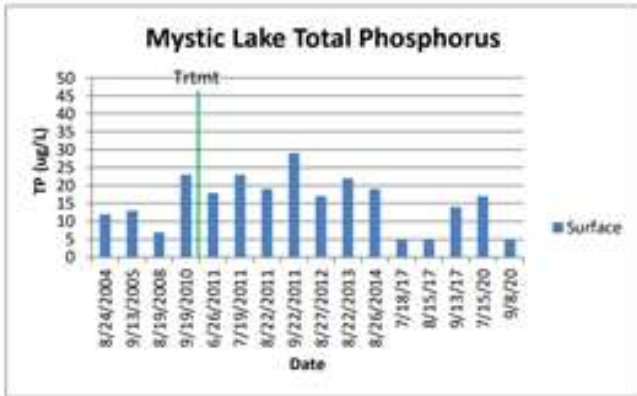
Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting & Implementation	\$145,000	-
	Monitoring	\$25,000	-
	Project Contingency	\$25,000	-
	Total Project Cost	\$195,000	-

Basis for Cost Estimates: Costs based on scope of work provided by the UMASS Dartmouth school for Marine Science and Technology in 2022.

Project Estimated Completion Date: Spring 2024		Design & Permit (months)	12	Construction (months)	1
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$195,000	Permitting, Alum Treatment, and Follow-Up Monitoring for Mystic Lake			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

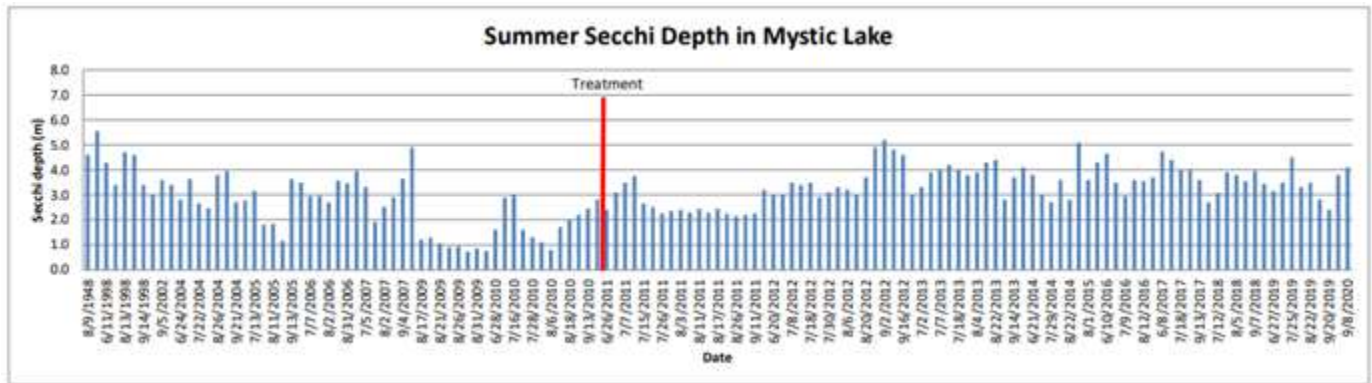
Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Not applicable.



Mystic Lake surface summer phosphorus data for selected summer dates. Mystic Lake Status Update 2020 Report.

Mystic Lake bottom summer phosphorus data for selected summer dates. Mystic Lake Status Update 2020 Report.



Historical summer secchi disk transparency record for Mystic Lake. Mystic Lake Status Update 2020 by WRS, Inc



Mystic Lake. Taken July 2021.

Project Working Title: Municipal Separate Storm Sewer System

Project Location: Various – Town Wide

Project Description: This project will fund multiple studies/plans/reports which are required for the Town of Barnstable to maintain compliance with the recent EPA National Pollution Discharge Elimination System Phase II Municipal Separate Storm Sewer Systems (MS4) Permit.

FY2024 CIP requirements will focus on:

- Continue to update Stormwater Mapping and Investigations
- Phosphorus Source ID Report Continuation (Lovells Pond)
- Updated Notice of Intent
- BMP Design, Lovells Pond #1
- System Vulnerability Source Assessment #2
- Assistance with IDDE Training and Adoption of Stormwater Regulations



Project Justification: The United States Environmental Protection Agency has identified Disturbance of Land and polluted stormwater runoff as major sources of water pollution. Regulation of illicit connections and discharges to the municipal storm drain system is necessary for the protection of the Town of Barnstable’s water bodies and groundwater resources and to safeguard the public health, safety, and welfare and the natural resources of the Town.

Impact of Denial/Postponement: Potential implementation of fines for non-permit compliance

Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting & Implementation	\$75,000	TBD
	Project Management	\$10,000	TBD
	Project Contingency	\$10,000	TBD
	Total Project Cost	\$95,000	TBD

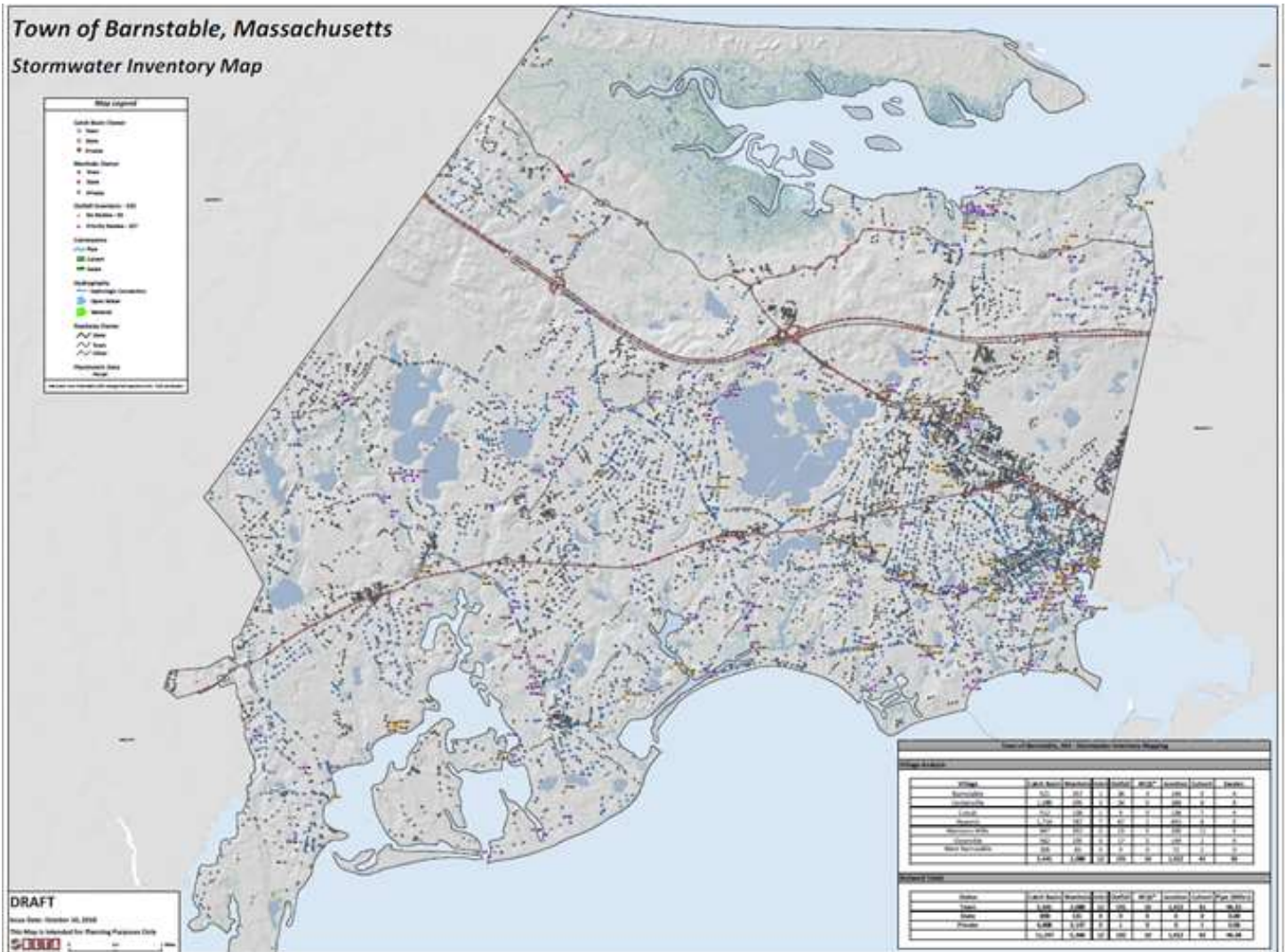
Basis for Cost Estimates: Developed by DPW Engineering based on review of previously received quotes.

Project Estimated Completion Date: 2024		Design & Permit (months)	12	Construction (months)	N/A
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$95,000	Study, Planning, Reports			
2025	TBD	-			
2026	TBD	-			
2027	TBD	-			
2028	TBD	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Permit requirements require increased maintenance such as sweeping of roads, cleaning of catch basins and maintenance of BMP’s installed on Town property. Increased maintenance costs for

street sweeping and catch basin cleaning have been previously requested through Highway Ops Budget.



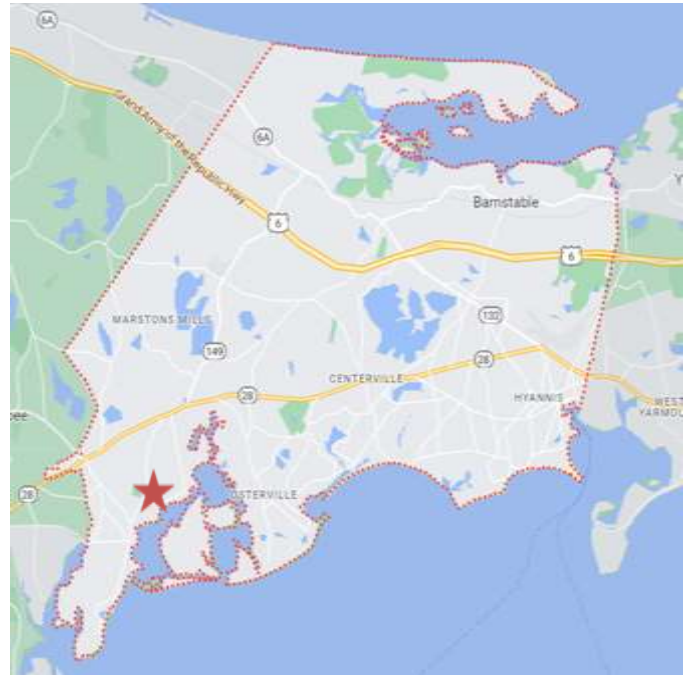
Project Working Title: Raised Crosswalks in Cotuit

Project Location: Southerly of the Intersection of Main St & Old Shore Rd, Cotuit

Project Description: Installation of a raised pedestrian crosswalk southerly of the intersection of Main Street at Old Shore Road in Cotuit.

Project Justification: Pedestrian crossings on Main Street at Old Shore Road can be hazardous. Raised pedestrian crossings will make individuals entering the roadways more visible to motorists and therefore improve pedestrian safety. In addition, rapid flashing beacons will be installed in this location to alert motorists that an individual is entering the roadway.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling/crossing in these areas.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$15,000	
	Construction or Acquisition	\$135,000	-
	Project Management	\$5,000	-
	Project Contingency	\$15,000	-
	All Other Cost	\$5,000	-
	Total Project Cost	\$175,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$175,000	Design and Construction			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: The raised crosswalks will increase routine maintenance.



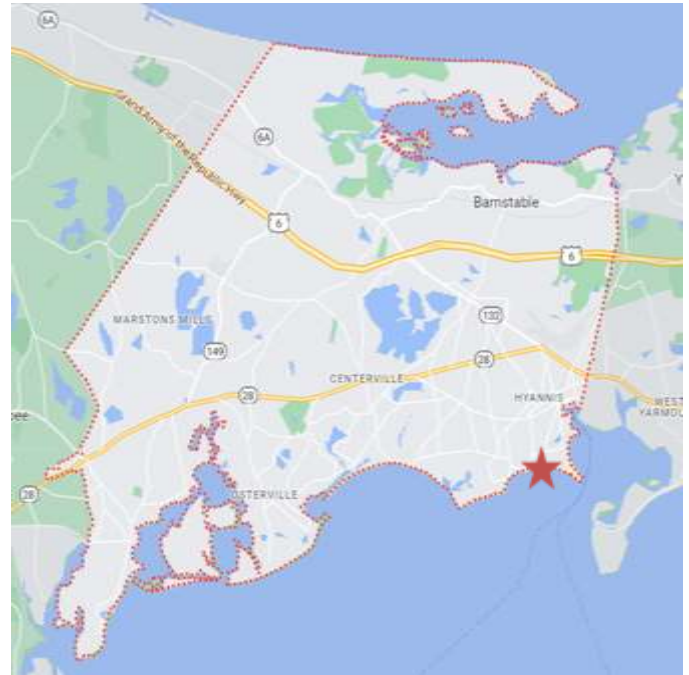
Project Working Title: : Hawes Avenue Culvert Reconstruction

Project Location: 0 Ocean Street and 11 Hawes Avenue, Hyannis

Project Description: This project will complete the evaluation, permitting, and design necessary to repair or replace a failing culvert underneath Hawes Avenue, Hyannis.

Project Justification: Sinkholes underneath and adjacent to Hawes Avenue have been continually worsening over the years due to an old and degraded culvert that conveys water from Hyannis Harbor to an up-gradient salt marsh. The culvert is in need of repair or replacement in order to prevent further degradation of the roadway and/or catastrophic failure of the roadway.

Impact of Denial/Postponement: Failure to construct this project will mean further deterioration of the infrastructure and Hawes Avenue. If conditions worsen, there may be a need for emergency repair to maintain Hawes Avenue or the crumbling pipe and roadway could restrict flow to the adjacent salt marsh potentially leading to a loss of aquatic and land based species.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$115,000	-
	Construction or Acquisition	-	\$1,250,000
	Project Management	\$5,000	\$50,000
	Project Contingency	\$11,500	\$100,000
	Total Project Cost	\$131,500	\$1,400,000

Basis for Cost Estimates: Proposal provided by a consultant.

Project Estimated Completion Date: 2026		Design & Permit (months)	18	Construction (months)	3
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$131,500	Design, Permitting			
2025	\$1,400,000	Construction			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: Reduced repairs to the existing sinkholes and patches to the roadway when conditions require so.



Culvert headwall and up-gradient salt marsh (taken 3-15-22).



Asphalt and rock patches on Hawes Avenue due to broken culvert pipe under roadway (taken 3-15-2022).



Junction manhole at the connection of an older culvert to a newer culvert that allows salt water connection to the up gradient salt marsh (taken 3-15-22).

Golf Enterprise Fund Projects Description

PROJECT: GC-24

DEPARTMENT PRIORITY: 1 of 4

2023-108

Project Working Title: Hyannis Golf Course Turf Maintenance Equipment Replacement/Acquisition

Project Location: Hyannis Golf Course, 1800 Iyannough Rd, Hyannis, MA 02601

Project Description: Replace numerous integral golf course maintenance equipment, including two triplex greens mowers, two fairway mowers, two rough mowers, one sand trap grooming machine, one 200 gallon turf spray applicator, an aerification core sweeper, and a high powered debris blower. New equipment acquisition includes one Workman HDX utility vehicle and two complete sets of grooming frames, spikers, and verti-cutters to be used in conjunction with new greens triplex mowers.



Project Justification: The turf maintenance equipment we are requesting to be replaced is mostly over 10 years old and is in need of replacement. The current turf spray applicator and sand trap groomer are both 15 years old. The core sweeper is over 20 years old. This new equipment is crucial to our ability to properly maintain the golf course at the conditions expected from membership and users. This equipment package will also allow for continued success in implementing the Environmentally Sustainable Land Management Plan. Newer, more efficient equipment not only cuts down on repair costs, but also greatly minimizes course opening delays and/or closures.

Impact of Denial/Postponement: The current equipment is at the end of, or in some cases, past its useful life expectancy. Repair and maintenance costs are rapidly increasing. Frequent breakdowns of equipment and components lead to long, expensive downtime. A diminished quality of cut, loss of productivity and reliability are concerns. Postponing the acquisition of new equipment will lead to excessive and costly repairs, decreased quality of playing conditions, inability to effectively continue the Environmentally Sustainable Land Management Plan, and a potential loss in revenue. Delivery on new equipment is estimated to be 14 months caused by ongoing supply chain issues.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$492,270	-
	Project Management	-	-
	Project Contingency	-	-
	All Other Cost	-	-
Total Project Cost	\$492,270	-	

Basis for Cost Estimates: Quotes with vendors.

Project Estimated Completion Date: July 2024		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$492,270	Construction or Acquisition			

2025	-	-
2026	-	-
2027	-	-
2028	-	-

Source of Funding: Golf Enterprise Fund Reserves and Transfers from Existing projects.

Operating Budget Impact now or in future: The current equipment is at the end of, or in some cases, past its useful life expectancy. Repair and maintenance costs are rapidly increasing. Frequent breakdowns of equipment and components lead to long, expensive downtime. A diminished quality of cut, loss of productivity and reliability are concerns. Postponing the acquisition of new equipment will lead to excessive and costly repairs, decreased quality of playing conditions, inability to effectively continue the Environmentally Sustainable Land Management Plan, and a potential loss in revenue. Delivery on new equipment is estimated to be 14 months caused by ongoing supply chain issues.



Project Working Title: Olde Barnstable Fairgrounds Golf Course Irrigation Sprinkler Replacement

Project Location: Olde Barnstable Fairgrounds Golf Course, 1460 Rt. 149, Marstons Mills, MA 02648

Project Description: Replace original sprinkler heads. Acquisition includes three hundred Rainbird model 702 irrigation sprinklers, PVC adapters for swing joints, direct burial electrical connection kits, and individual yardage markers.

Project Justification: The current irrigation sprinklers are over thirty years old and have reached the end of their useful life. The existing sprinklers no longer provide accurate coverage and precipitation rates. Replacement parts are costly and difficult to obtain. The requested replacement sprinklers are far superior in precipitation rates, distribution and the conservation of water usage. The installation of the new irrigation sprinklers is an integral part of the Environmentally Sustainable Land Management Plan and will reduce incidence of turf diseases caused by prolonged leaf saturation. Purchasing replacement sprinklers for the entire golf course at the same time provides a significant discount.



Impact of Denial/Postponement:

As the current irrigation sprinklers continue to fail, the lack of accurate coverage, uniformity and efficiency is becoming more noticeable. Replacing costly antiquated parts for outdated sprinklers is not fiscally responsible. Postposing the acquisition of new irrigation sprinklers would make adherence to the Environmentally Sustainable Land Management Plan extremely difficult. Golf course conditions will become compromised as there will be more localized dry spots as well as more environmental conditions conducive to disease occurrence.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$82,561	-
	Project Management	-	-
	Project Contingency	-	-
	All Other Cost	-	-
	Total Project Cost	\$82,561	-

Basis for Cost Estimates: In-House Estimates.

Project Estimated Completion Date: Nov 2025		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$82,561	Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Golf Enterprise Fund Reserves.

Operating Budget Impact now or in future: After the installation of new sprinklers is complete it will require less repair and maintenance of the irrigation system. This will allow improved maintenance to other aspects of the golf course as less time will be focused on repairing irrigation sprinklers.



Project Working Title: Old Barnstable Fairground Cart Barn Roof Replacement

Project Location: Olde Barnstable Fairgrounds Golf Course, 1460 Rt. 149, Marstons Mills, MA 02648

Project Description: The existing three tab asphalt roof on the cart barn is in a state of failure and needs to be replaced. A large hole was temporarily repaired, but new areas of shingle delamination have begun.

Project Justification: The cart barn is used to store golf carts. The old three tab asphalt roof is deteriorated and in need of replacement.

Impact of Denial/Postponement: Failure of building will result in possible loss and accelerated wear of assets (Carts).



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$13,402	-
	Construction or Acquisition	\$111,686	-
	Project Management	\$25,000	-
	Project Contingency	\$11,169	-
	All Other Cost	\$500	-
	Total Project Cost	\$161,757	-

Basis for Cost Estimates: In-House Estimates.

Project Estimated Completion Date: 2024		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$161,757	Design / Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Golf Enterprise Fund Reserves.

Operating Budget Impact now or in future: Preservation of existing assets. Minimal reduction to routine maintenance.



School Department General Fund Projects Description

PROJECT: SCH-24	DEPARTMENT PRIORITY: 2 of 12	2023-111
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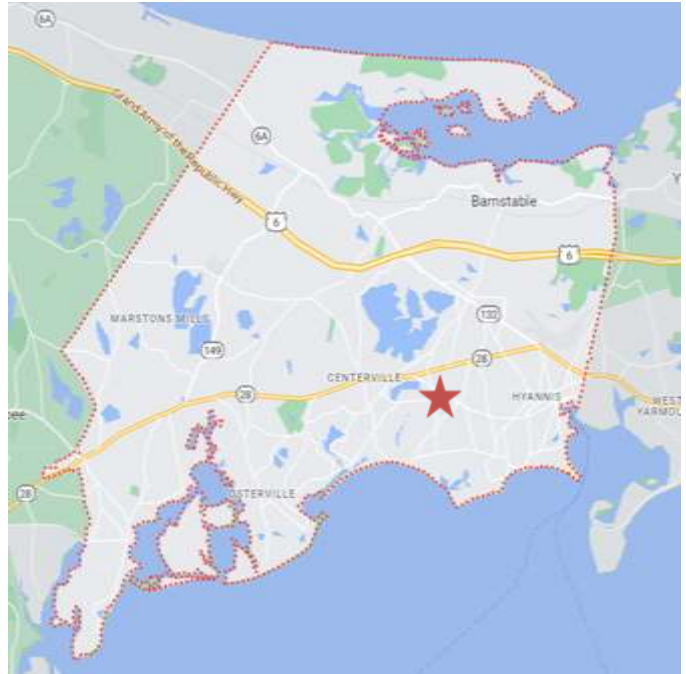
Project Working Title: EIFS Wall Replacement Project

Project Location: 744 West Main Street, Hyannis

Project Description: This project involves replacing a damaged wall in the Barnstable High School Cobb Astro Park. As well as assessing the condition of the remaining exterior insulation finish system (EIFS) at BHS.

Project Justification: The wall has experienced leaks and de-bonded exterior insulation finish system (EIFS). These leaks are continuing to deteriorate the wall framing.

Impact of Denial/Postponement: Failure to replace will result in more safety and security concerns, maintenance and energy consumption issues.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	-
	Construction or Acquisition	\$275,000	-
	Project Management	-	-
	Project Contingency	\$75,000	-
	All Other Cost	-	-
	Total Project Cost	\$400,000	-

Basis for Cost Estimates: Architectural estimate

Project Estimated Completion Date: Sept 2024		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$400,000	Design/Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Bond Issue

Operating Budget Impact now or in future: None



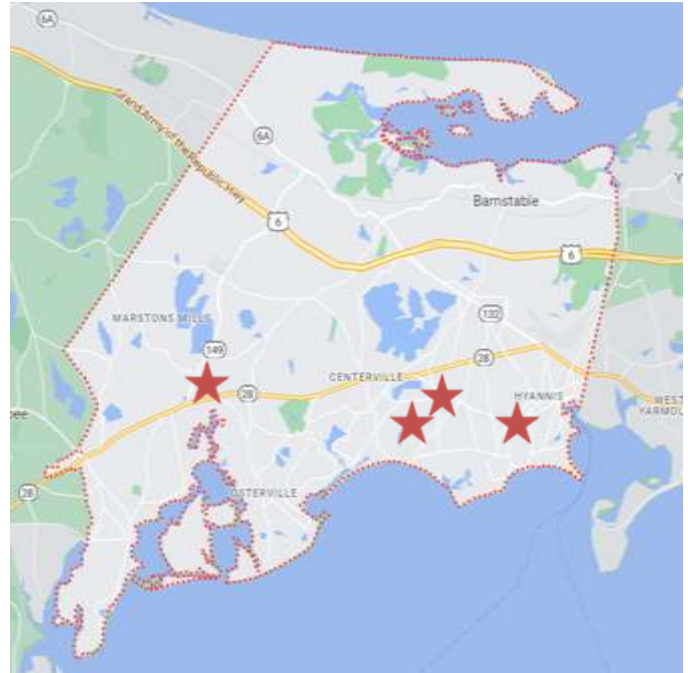
Project Working Title: District Wide Door and Window Replacement

Project Location: BCIS, Centerville, BUE, & BIS

Project Description: This project involves replacing windows that have increasingly become inoperable. Many of these windows have been secured closed because they have blown open on several occasions. Current windows and doors are drafty and damp and will be replaced with energy efficient units. Existing doors are increasingly difficult to upgrade to our district wide RFID entry system.

Project Justification: Existing units are becoming a safety concern and one has even fallen on a student. Failure to replace will result in more safety and security concerns, maintenance and energy consumption issues. Upgrades to doors in order to work with district wide RFID entry system will become costly.

Impact of Denial/Postponement: Failure to replace will result in more safety and security concerns, maintenance and energy consumption issues.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$50,000
Construction or Acquisition		\$765,000	-
Project Management		\$35,000	-
Project Contingency		\$150,000	-
All Other Cost		-	-
Total Project Cost		\$1,000,000	-

Basis for Cost Estimates: Department Estimate

Project Estimated Completion Date: Sept 2026		Design & Permit (months)	6	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,000,000	Design/Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Bond Issue

Operating Budget Impact now or in future: None



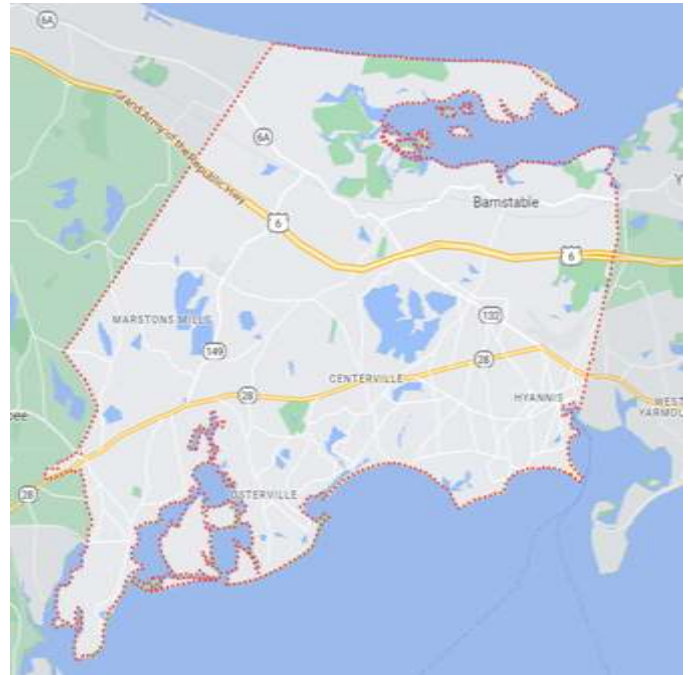
Project Working Title: BPS Campus Wide Paving and Sidewalk Repair

Project Location: Districtwide

Project Description: Pave and repair campus parking lots and sidewalks as needed.

Project Justification: Safety and Maintenance. Several locations have large cracks which have lead to incidents of tripping.

Impact of Denial/Postponement: Denial or postponement of this project will allow for further deterioration of existing conditions which could potentially lead to injury(s).



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$350,000	\$350,000
	Project Management	-	-
	Project Contingency	-	-
	All Other Cost	-	-
	Total Project Cost	\$350,000	\$350,000

Basis for Cost Estimates: Department Estimate

Project Estimated Completion Date: Sept 2023		Design & Permit (months)	-	Construction (months)	3
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$350,000	Construction			
2025	\$350,000	Construction			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: None



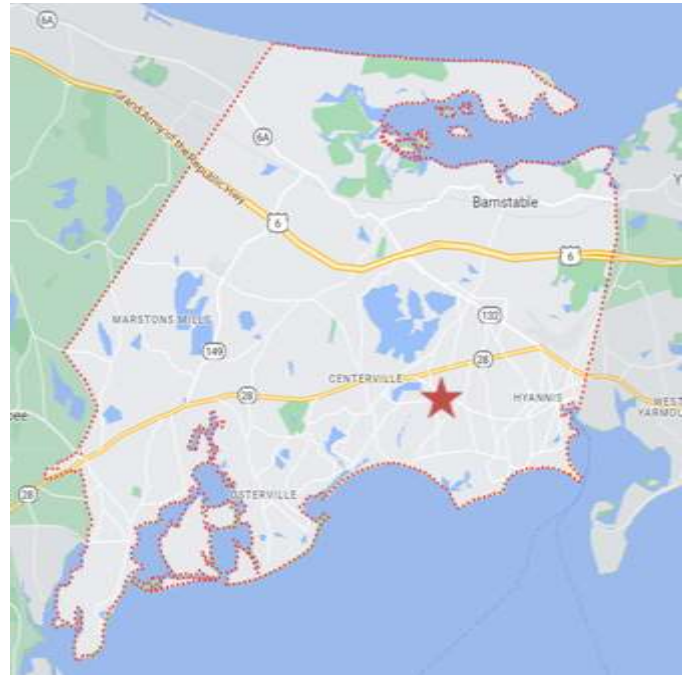
Project Working Title: Barnstable High School Culinary Arts Kitchen

Project Location: 744 West Main Street, Hyannis

Project Description: Design and installation of a full service commercial/culinary arts type kitchen at the Barnstable High School. The project would include HVAC, commercial exhaust, equipment and all necessary infrastructure to support a Culinary Arts/Massachusetts Skills Capital Grant Program.

Project Justification: Addition of this facility would provide the necessary teaching space to prepare students who are interested in pursuing a career in the food service industry. Barnstable public schools has already received a matching grant for \$50,000 for equipment and design.

Impact of Denial/Postponement: Denial or postponement of this project will leave the current program in unsafe and non-compliant spaces for the use.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	-
	Construction or Acquisition	\$350,000	-
	Project Management	\$50,000	-
	Project Contingency	\$50,000	-
	All Other Cost	-	-
	Total Project Cost	\$500,000	-

Basis for Cost Estimates: Budgetary estimate provided by CBI Consulting and GGD Mechanical.

Project Estimated Completion Date: TBD		Design & Permit (months)	12	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$500,000	Design / Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Bond Issue

Operating Budget Impact now or in future: None

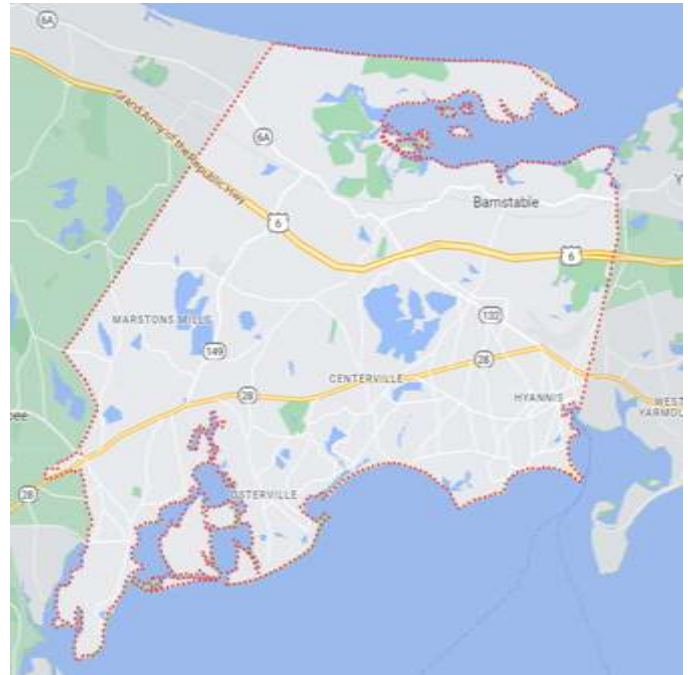
Project Working Title: Campus Wide Mechanical Upgrades (Burners, Boilers, HVAC & Pump Systems)

Project Location: Districtwide

Project Description: District Wide Boiler, Burners and Pump Upgrades.

Project Justification: Much of our existing equipment is over 30 years old and requires replacement and/or upgrade.

Impact of Denial/Postponement: Denial or postponement of this project could result in heating system failure with the possibility of facility damage due to frozen pipes, etc.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		-
Construction or Acquisition		\$250,000	\$750,000
Project Management		-	-
Project Contingency		-	-
All Other Cost		-	-
Total Project Cost		\$250,000	\$750,000

Basis for Cost Estimates: Budgetary estimate provided by CBI Consulting and GGD Mechanical.

Project Estimated Completion Date: 2025		Design & Permit (months)	-	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$250,000	Boiler & Pump Replacement			
2025	\$250,000	Boiler & Pump Replacement			
2026	\$250,000	Boiler & Pump Replacement			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: None



BWB Boiler

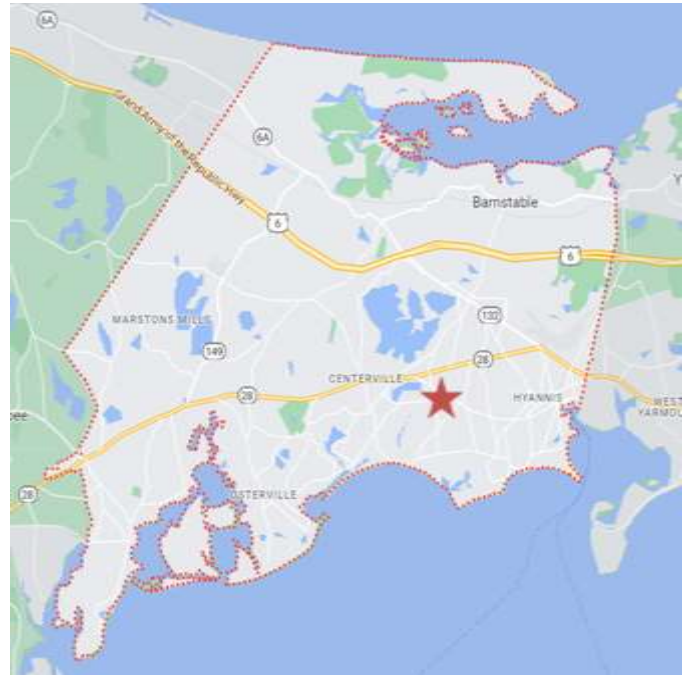
Project Working Title: Knight Hall Chiller / PAC Chiller

Project Location: 744 West Main Street, Hyannis

Project Description: Replacement of the Knight Hall and Performing Art Center (PAC) Chillers

Project Justification: The Knight Hall chiller is no longer operational leaving the space without proper cooling until replaced.

Impact of Denial/Postponement: Underutilized space during summer / shoulder months.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$25,000	-
	Construction or Acquisition	\$200,000	\$500,000
	Project Management	-	-
	Project Contingency	\$25,000	-
	All Other Cost	-	-
	Total Project Cost	\$250,000	\$500,000

Basis for Cost Estimates: Budgetary estimate based upon prior projects.

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$250,000	Knight Hall Chiller Replacement			
2025	-	-			
2026	-	-			
2027	-	-			
2028	\$500,000	PAC Chiller Replacement			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: None

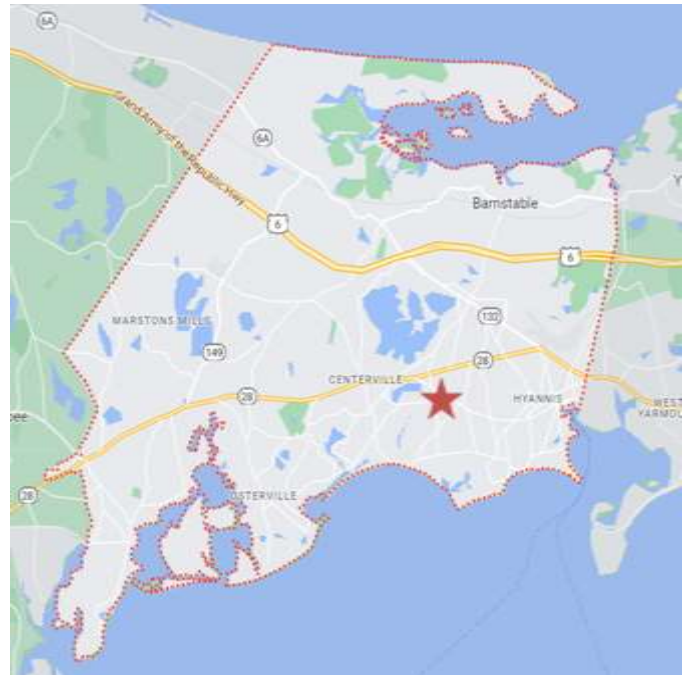
Project Working Title: Sports Fields Upgrades, Phases II

Project Location: 744 West Main Street, Hyannis

Project Description: This project is a continuation of a 3 phase plan to improve the athletic playing fields at Barnstable High School (BHS). The FY 20 appropriation would be used for the engineering and planning segment of Phase 2 Field Improvements. This phase includes improvement to the varsity softball The work would consist of leveling/grading/reorientation of current field and improvements to natural turf surfaces and irrigation system.

Project Justification: Upgrades to our sports facilities will bring the playing areas to Division I standards proving safer conditions while attracting student athletes and pay for play sports organizations. Softball is the only outdoor sports team that has not had an upgrade to their playing fields thus far.

Impact of Denial/Postponement: Softball will remain the only outdoor sports field yet to receive an upgrade.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$65,000	-
	Construction or Acquisition	\$785,000	\$2,000,000
	Project Management	-	-
	Project Contingency	\$150,000	-
	All Other Cost	-	-
	Total Project Cost	\$1,000,000	\$2,000,000

Basis for Cost Estimates:

Project Estimated Completion Date: TBD		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,000,000	Softball Field Upgrade			
2025	-	-			
2026	\$2,000,000	BHS Phase III			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: None



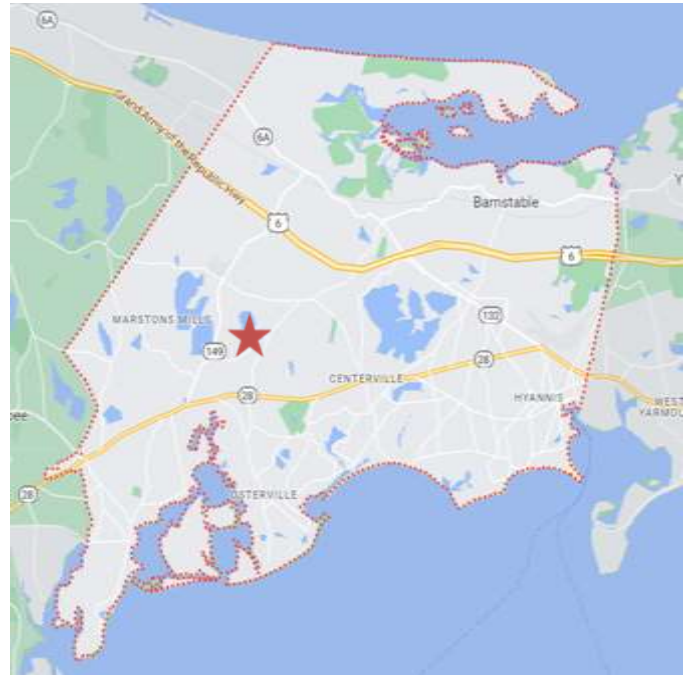
Project Working Title: West Villages Elementary Carpet Removal

Project Location: 760 Osterville West Barnstable Rd

Project Description: Removal all carpeting through the school and replace with a resilient flooring system.

Project Justification: This is our only school remaining with carpet in every classroom. These carpets are original to the building and becoming more and more yearly. Removal of carpets will improve the Indoor Air Quality of the entire school.

Impact of Denial/Postponement: Not an optimal learning space. Health and safety concerns.



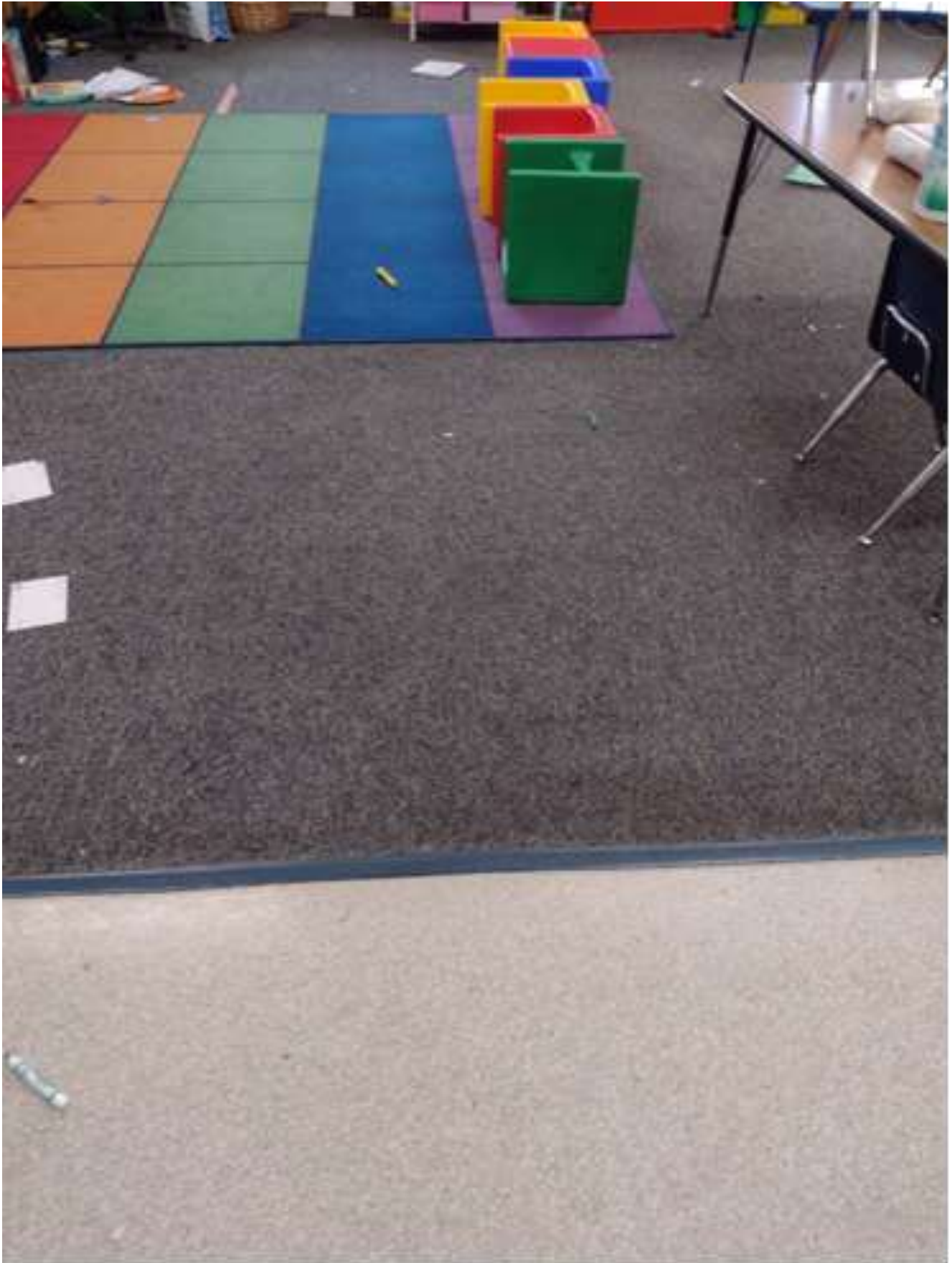
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	-
	Construction or Acquisition	\$500,000	-
	Project Management	-	-
	Project Contingency	\$200,000	-
	All Other Cost	-	-
	Total Project Cost	\$750,000	-

Basis for Cost Estimates:

Project Estimated Completion Date: 2024		Design & Permit (months)	-	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$750,000	Carpet Removal / Flooring Replacement			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: General Fund Reserves and Transfers from existing projects.

Operating Budget Impact now or in future: None



Airport Enterprise Fund Projects Description

PROJECT: AIR-24

DEPARTMENT PRIORITY: 1 of 14

2023-119

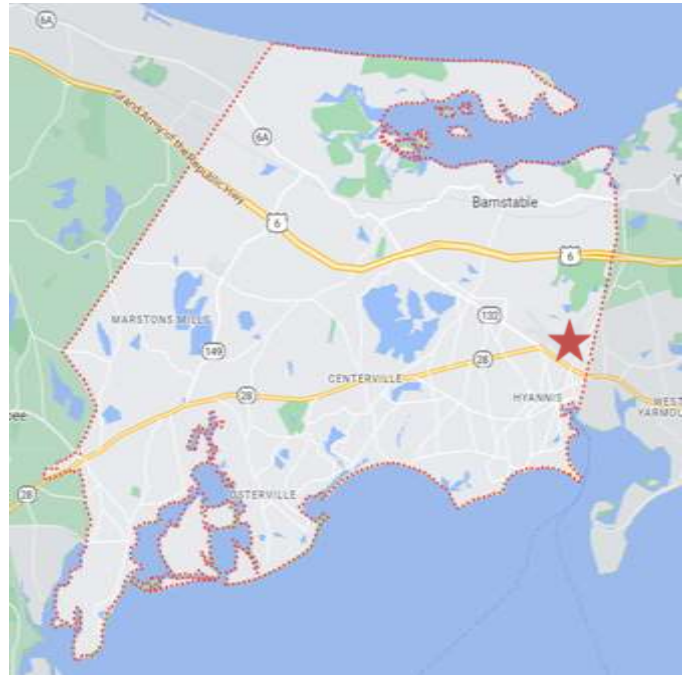
Project Working Title: Upgrade Heating and Air Condition Systems – Airport Terminal & Tower

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Construction of the Airport Terminal and Air Traffic Control Tower was completed in the fall of 2011. Both facilities are over 11 years old and some of the appliances such as the Heating and Air Condition Systems (HVAC) are showing their age and need replacement.

Project Justification: Construction of the Airport Terminal and Air Traffic Control Tower was completed in the fall of 2011. Both facilities are over 11 years old and some of the appliances such as the Heating and Air Condition Systems (HVAC) are showing their age and need replacement.

Over the past year, the airport has been required to conduct more than routine maintenance on its HVAC units for both the Airport Terminal and Air Traffic Control Tower. Although contracted maintenance is performed twice per year, the systems are starting to fail. Additionally, the systems are no longer supported and parts are hard to come by.



Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be operational for the general public and/or in full compliance with Federal, State, and Local agencies and may also have long term financial consequences with regard to receipt of future Federal and State grants.

Construction of the Airport Terminal and Air Traffic Control Tower was completed in the fall of 2011. Both facilities are over 11 years old and some of the appliances such as the Heating and Air Condition Systems (HVAC) are showing their age and need replacement.

Over the past year, the airport has been required to conduct more than routine maintenance on its HVAC units for both the Airport Terminal and Air Traffic Control Tower. Although contracted maintenance is performed twice per year, the systems are starting to fail. Additionally, the systems are no longer supported and parts are hard to come by. A failure of these systems would be catastrophic and perhaps mean closure for airport facilities, namely the Air Traffic Control Tower and Terminal.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	1,015,864	-
	All Other Cost	-	-
	Total Project Cost	1,015,864	-

Basis for Cost Estimates: Engineering on-call

Project Estimated Completion Date: FY 2025	Design & Permit (months)	-	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:				

Fiscal Year	Cost	Project Description/Components
2024	\$1,015,864	Upgrade Heating and Air Condition Systems – Airport Terminal & Tower
2025	-	-
2026	-	-
2027	-	-
2028	-	-

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%). Airport share is \$50,793.20.

Operating Budget Impact now or in future: Reduction to routine maintenance. Newer units will meet various efficiency improvements and maintenance costs will decrease.

Project Working Title: Master Plan Updates

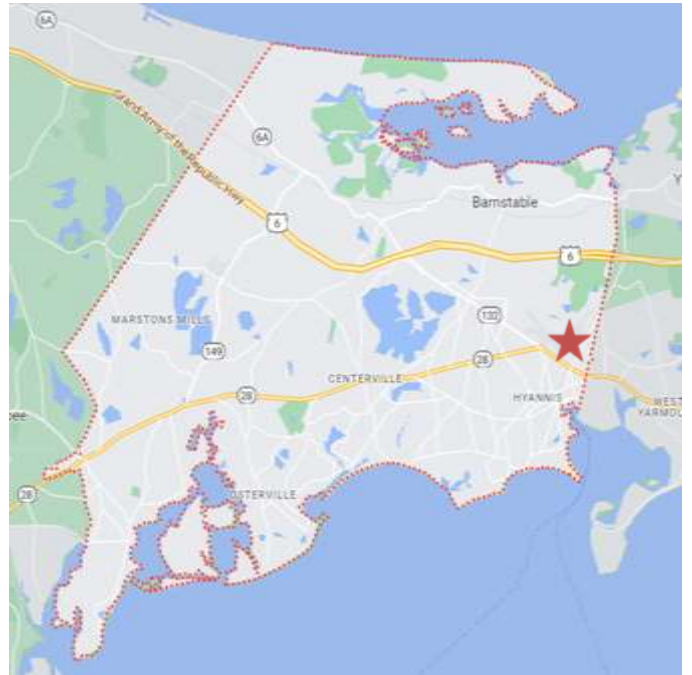
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Environmental permitting associated with various airfield safety improvements proposed at the Cape Cod Gateway Airport as part of the Airport Master Plan Update. The scope of the project will include any identified permitting requirements for Short-term Airport Master Plan Update Projects.

Project Justification: The environmental permitting as required by Federal, State, and Local agencies for implementation of proposed improvements.

Permitting may be needed and necessary to implement development alternatives that improve the airport and future operations whether it is safety or capacity related. It may consider the following airport projects:

- Viability of and options for extending Runway 15/33;
- Review of the taxiway geometry and develop options for compliance with design standards for Taxiway B, D, & E;
- Review of Runways 15/33 & 6/24 Enhancements & Improvements;
- Analysis of access road improvements;
- Identification of on-airport and off-airport commercial development;
- Development of alternatives to meet aircraft parking demand for apron space;
- Reviewing obstruction analysis of FAR Part 77 surfaces and obstruction removal options; and
- Examining other issues as detailed in the Airport Master Plan.



Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be in full compliance with environmental permitting as required by Federal, State, and Local agencies and may also have long term financial consequences with regard to receipt of future Federal and State grants if permits are not processed and approvals provided as dictated via various environmental regulations.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$525,000	-
	Construction or Acquisition	-	-
	All Other Cost	-	-
	Total Project Cost	\$525,000	-

Basis for Cost Estimates: Horsley Witten Group (on-call airport environmental consulting firm) conducted cost estimates based on past reporting and monitoring requirements as of July 2020. These were updated in July 2021 and again in July 2022.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	18	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$525,000	Permitting			

2025	-	-
2026	-	-
2027	-	-
2028	-	-

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%). Airport share is \$26,250.

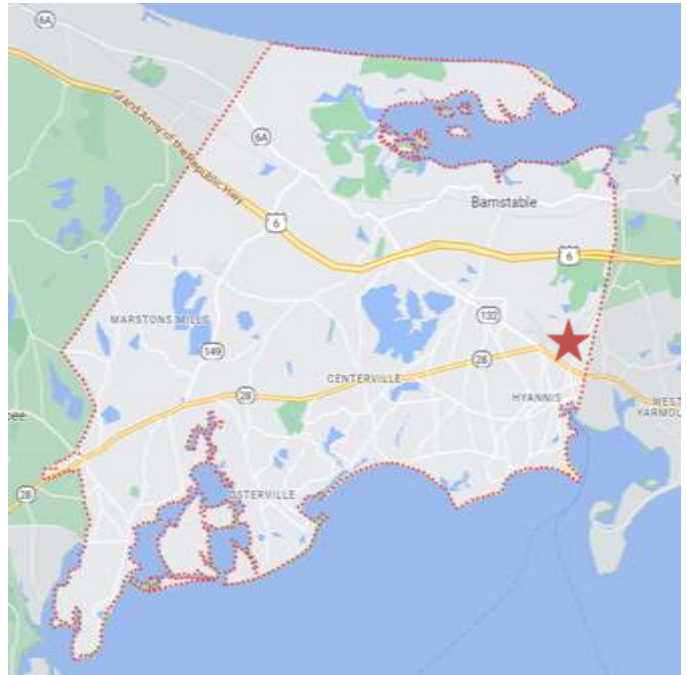
Operating Budget Impact now or in future: None

Project Working Title: Airport Security Camera Upgrades

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Airport security equipment must be maintained regularly to protect airport staff and the traveling public and when certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, such equipment must be evaluated and replaced as necessary. This project is to replace 40 airport cameras in various locations throughout the airport.

Project Justification: The Airport has 55 cameras in various locations throughout the airport which will require replacement over the next several years. Nine were added in FY2016 by MassDOT Aeronautics, three were replaced in FY2019 by the Airport, and another three were replaced in FY2020 by the Airport. A number of the cameras are older less capable analog cameras with limited capabilities for detection and monitoring of security areas and the overall airport. The new digital cameras now on the market provide greatly enhanced capabilities for security and airport operations observation, monitoring and detection. The new camera capability includes:



- The ability to take excellent still photos, control each camera individually with zoom capability to read license plates, aircraft numbers and perhaps even security badges.
- Higher resolution and low light capability that will improve overall airport security and the ability to better monitor airport traffic.
- Better review of security breaches, theft and/or monitoring tenants and their use of common space for payment/revenue purposes.

The intent was a multi-year program that would replace a number of cameras per year unless the project is eligible for funding from MassDOT Aeronautics Division, FAA or Transportation Security Administration (TSA) grants. FAA has indicated that the vast majority of the cameras, but not all, are eligible for Federal and State funding. Up until this point, the Airport has funded camera replacement 100% out of the Operating Capital Budget.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA/TSA regulations for security and airport operations observation, monitoring and detection and could be decertified; the airport would not be able to maintain operations; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield security breaches as quickly and efficiently and would unnecessarily endanger lives and property.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$275,000	-
	Construction or Acquisition	\$409,000	-
	All Other Cost	\$5,000	-
	Total Project Cost	\$689,000	-

Basis for Cost Estimates: McFarland Johnson (on-call airport planning consulting firm) conducted cost estimates based

on past reporting and monitoring requirements as of August 2020. Updates were made to the cost estimate in July 2021 and based on a recent similar project in the summer of 2021 at Nantucket Airport and again increased in October 2022.

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$689,000	Design & Implement			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%). Airport share is \$34,475.

Operating Budget Impact now or in future: More efficient security review and capture throughout terminal.



Digital



Analog

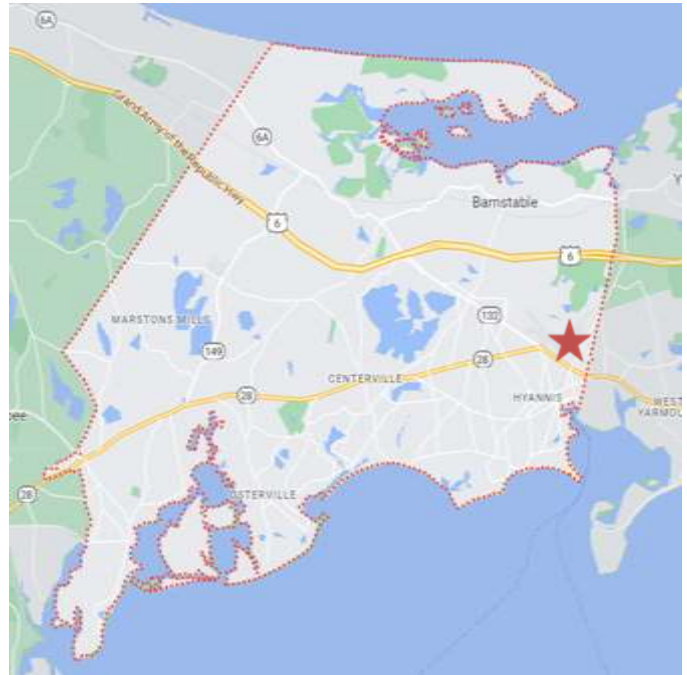
Project Working Title: Replace SRE Equipment 10-wheeler - Airport #47

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace SRE Equipment 10-wheeler - Airport #47 (Sterling Carrier Vehicle with plow and sander circa 2006)

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	-
	Construction or Acquisition	\$330,000	-
	All Other Cost	\$3,000	-
	Total Project Cost	\$383,000	-

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other equipment purchases and recent purchases at other airports as of August 2020. These estimates were reviewed again in October 2022.

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$383,000	Acquisition			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Funding by FAA (90%), MassDOT AD (5%), and local share (5%) from airport enterprise funds. Airport share is \$19,150

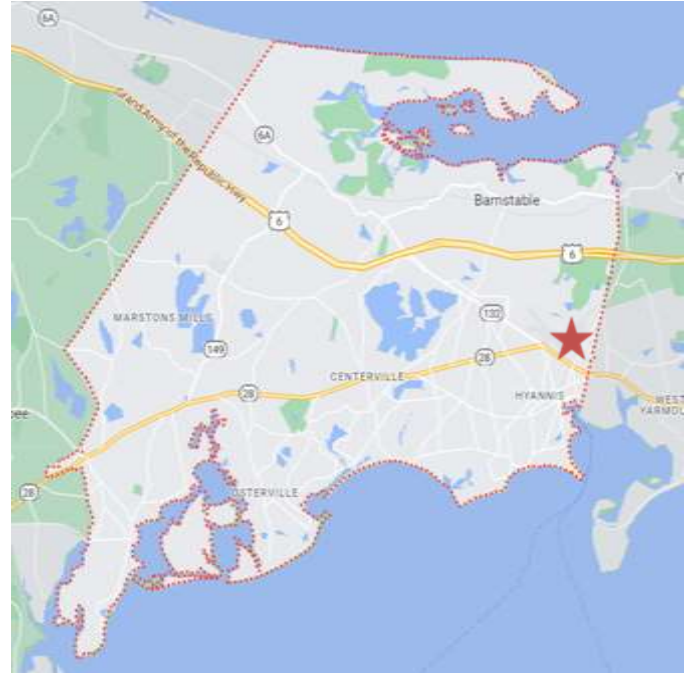
Operating Budget Impact now or in future: None



Project Working Title: SRE Equipment Storage Facility**Project Location:** 480 Barnstable Road, Hyannis, MA 02601**Project Description:** Maintenance of the 639 acre airport facility plus its 8 structures requires a lot of equipment and vehicles such as:

- Snow removal equipment,
- Mowing equipment,
- Pavement maintenance equipment,
- Operations and Maintenance vehicles,
- Building supplies, and
- Small tools and equipment.

Not all of that equipment is stored in a covered shelter. This project is to develop a storage facility to house equipment that is currently stored outdoors. This equipment is not in excess of what is needed. The airport just simply has a number of pieces of equipment to maintain the facility on a year-round basis.



Project Justification: Airport support equipment helps ensure efficient ground operations. This includes equipment that can supply aircraft with power, mow the airfield, maintain pavements, clear snow, respond to emergencies, respond to airport security, maintain buildings and grounds and much more. Construction of a storage facility will elongate the life of the 30 plus vehicles and equipment in the airport fleet as well as other tools and equipment that the Airport must maintain on-hand for various airport structures. Even when we surplus old vehicles and assets, the Airport still has various pieces of equipment stored outdoors that need the protection of indoor coverage. Because Airport staff conduct the vast majority of on-site maintenance, various tools and equipment is needed year round. We try to avoid outside contractors when in-house staff have the capability and knowhow to complete and maintain various structures, grounds and equipment.

The detriment to outdoor storage includes the following:

- Increased equipment maintenance activities,
- Reduction in vehicle life expectancy, accelerating vehicle replacement schedules,
- Loss of productivity associated with cold weather and storm event impacts, and
- Rapid deterioration of equipment in a salt air environment.

The Airport wants to elongate the life expectancy of equipment by providing for better storage options.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be operational for the general public and/or in full compliance with Federal, State, and Local agencies if equipment fails or is not properly maintained and stored and may also have long term financial consequences with the need to replace equipment quicker.

The detriment to outdoor storage includes the following:

- Increased equipment maintenance activities,
- Reduction in vehicle life expectancy, accelerating vehicle replacement schedules,
- Loss of productivity associated with cold weather and storm event impacts, and
- Rapid deterioration of equipment in a salt air environment.

The Airport wants to elongate the life expectancy of equipment by providing for better storage options.

Over the past several years, the airport has been required to conduct more than routine maintenance on its equipment. A failure of these systems would be catastrophic and perhaps mean closure for airport facilities if the proper equipment and maintenance of that equipment is not conducted properly. We want to protect and maintain Airport equipment in a manner that allows for elongated use and replacement.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$1,120,580	-
	All Other Cost	-	-
	Total Project Cost	\$1,120,580	-

Basis for Cost Estimates: Engineering on-call

Project Estimated Completion Date: FY 2025		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,120,580	Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

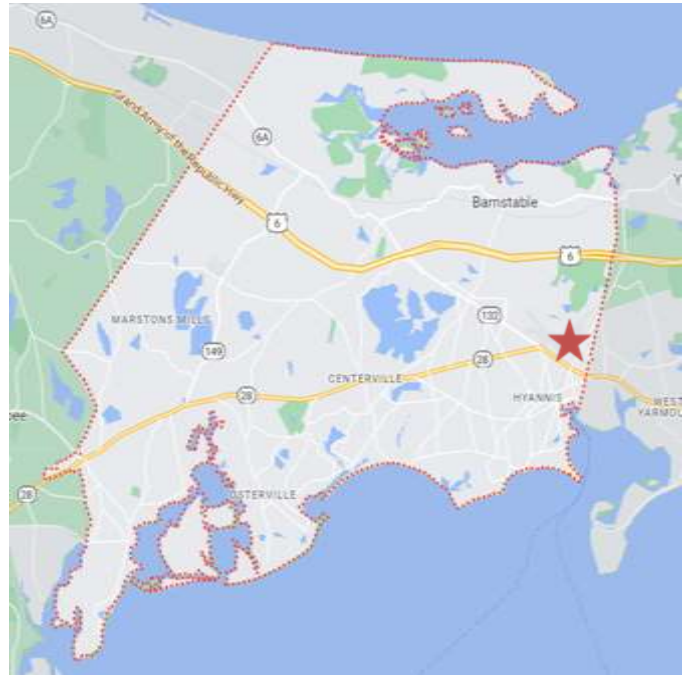
Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%). Airport share is \$0.00 (Funding 100% by ARPA Grant).

Operating Budget Impact now or in future: Protection of airport assets.

Project Working Title: Electric Aircraft Support Vehicle/Charging Station

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Although the electric aviation program is new, funding is earmarked for FY2024 but the amount of funding and project type needs to be flexible until we have an understanding of the needs for the industry and that of future users. Cape Air and Southern Airways Express, two of the Airports existing airlines a very serious about transitioning their fleet to electric once the market is sound. Two of the four known electric aircraft companies are seeking federal certification by 2024/2025. Additionally, United Airlines recently provided funding to Archer and its electric aircraft, the Midnight, for 100 aircraft once it has reached federal certification (anticipated for Winter 2024/2025) <https://www.archer.com/>. And BETA of Vermont is seeking the same timeframe <https://www.beta.team/aircraft/>.



There is potential Federal Aviation Administration (FAA) Voluntary Airport Low Emissions (VALE) Program Funding. VALE is available to commercial service airports located in areas that are in non-attainment or maintenance of National Ambient Air Quality Standards (NAAQS). Eligible project types include mobile and stationary equipment that reduce on-airport emissions, such as low-emission vehicles and infrastructure upgrades. Airport sponsors can fund VALE projects using Passenger Facility Charges (PFCs) or Airport Improvement Program (AIP) grants. Both entitlements and discretionary AIP funds may be available for VALE projects. There are stationary recharging units available for aircraft but mobile units make more sense so that we can recharge fleets in different locations, similar to a mobile fuel truck. A stationary charger is also an option.

Project Justification: The airport is keen on looking for all ways to be for “green” and environmentally responsible. Reductions in greenhouse gases drive this initiative. Additionally, this may be a market that supplements our jet fuel cost center, the largest revenue producer for the airport. The airport must be ready for a transition in fuel sources for aviation, especially since two of our airlines are moving in this direction.

Impact of Denial/Postponement: The airport is keen on looking for all ways to be for “green” and environmentally responsible. Reductions in greenhouse gases drive this initiative. Additionally, this may be a market that supplements our jet fuel cost center, the largest revenue producer for the airport. The airport must be ready for a transition in fuel sources for aviation, especially since two of our airlines are moving in this direction. Denial of the project would impact the airport’s ability of responding to infrastructure needs for our tenant airlines in a timely manner and the ability to quickly transition from fossil fuel use to electric vehicle use to reduce greenhouse gas emissions.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$505,000	-
	All Other Cost	-	-
	Total Project Cost	\$505,000	-

Basis for Cost Estimates: Cost estimates based on other stationary equipment.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$505,000	Construction / Acquisition			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Funding by FAA (90%), MassDOT AD (5%), and local share (5%) from airport enterprise funds. Airport share is \$25,250

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.

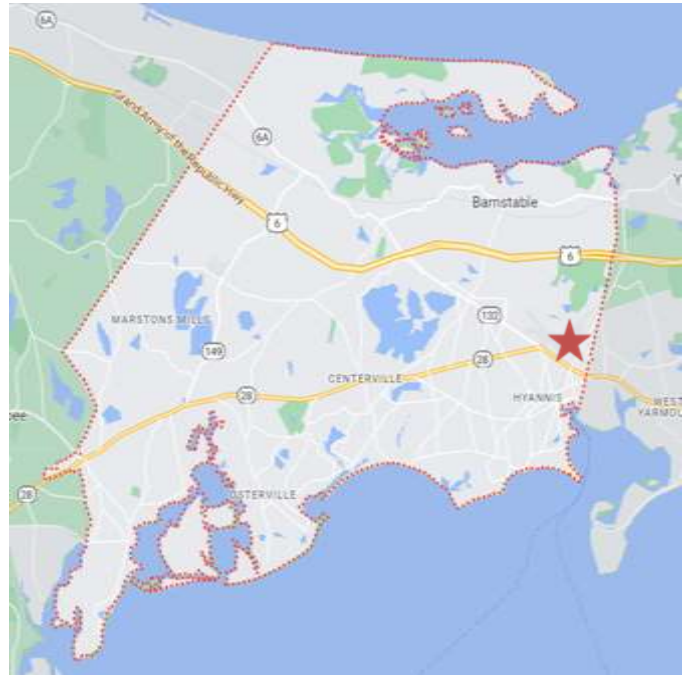


Project Working Title: Jet A Fuel Storage Tank

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Although the Airport is seeking to transition to an electric aviation program, this is mainly for a smaller fleet of aircraft that are piston driven and that now use avgas and not Jet-A fuel. The aircraft using Jet-A fuel will continue to do so as the technology is not quite efficient for larger and heavier aircraft.

The airport tracks year-over-year and month-over-month the average fuel loads purchased and sold. This tracking allows the operation to identify the number of fuel loads typically needed year-over-year and month-over-month and is used for forecasting purposes. With the onset of COVID-19, there has been an increase in aviation jet fuel sales with more corporate aircraft utilizing the facility and purchasing fuel in FY 2021, FY 2022. We are starting to normalize our sales in FY 2023 but there have been multiple occasions when deliveries have been delayed or non-existent due to driver shortages or issues up line at the Boston or New York refineries causing not only this Airport but Martha’s Vineyard and Nantucket Airport to run out of fuel.



Project Justification: The airport is keen on protecting its jet fuel cost center, the largest revenue producer for the airport, and must be able to supply the consumer with reliable fuel. This project will allow the airport to have more fuel on-hand in the attempt to respond more efficiently to fuel delivery delays.

Impact of Denial/Postponement: The airport is keen on protecting its jet fuel cost center, the largest revenue producer for the airport, and must be able to supply the consumer with reliable fuel. This project will allow the airport to have more fuel on-hand in the attempt to respond more efficiently to fuel delivery delays. Denial would mean that the Airport could potentially be out of fuel and cannot sell one of its highest revenue producers.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$355,000	-
	All Other Cost	-	-
	Total Project Cost	\$355,000	-

Basis for Cost Estimates: Cost estimates based on other stationary equipment.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$355,000	Design, Permitting & Construct Jet-A 20,000 gallon tank			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Funding by FAA (0%), MassDOT AD (80%), and local share (20%) from airport enterprise funds. Airport share is \$355,000 unless eligible for MassDOT funding, then the Airport share would be 20% or \$71,000

Operating Budget Impact now or in future: Unknown at this time but there will be maintenance fees associated with this project to maintain system.



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PART VI –DETAILED DESCRIPTIONS OF DEFERRED PROJECTS

Comprehensive Wastewater Management Plan Projects

PROJECT: CWMP-24	DEPARTMENT PRIORITY: 6 of 18
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Project Working Title: Effluent Disposal Alternatives – Design & Permitting

Project Location: TBD

Project Description: This project will continue the Town’s efforts to identify, evaluate, design, permit and eventually construct expanded effluent disposal facilities. This request is for design and permitting of a recommended solution.

Project Justification: The CWMP calls for an additional 2.1 MGD to be treated at the Barnstable WPCF over the course of the next 30 years. In 2020, the Town completed a groundwater modeling project to quantify the amount of effluent that can be disposed of at the Barnstable WPCF. The study concluded that the WPCF is nearing the limits of its disposal capacity and that additional effluent disposal capacity will be required to accommodate the significant increase in flows proposed in the Town’s Comprehensive Wastewater Management Plan (CWMP). The Town has continued to advance alternatives analyses and anticipates arriving at a recommended solution in FY2024. Without resolution of this issue, the CWMP cannot proceed beyond Phase 1.

Impact of Denial/Postponement: Locating and developing expanded effluent disposal facilities is one of the most critical components of the CWMP. Failing to successfully permit expanded effluent disposal capacity would delay wastewater expansion efforts. Water quality will continue to degrade in the Town’s waterways as sewer projects are put on hold.

Project Cost Estimates:	FY 2024	Future FY
Construction or Acquisition	-	\$TBD
Project Management	-	\$TBD
Project Contingency	-	\$TBD
All Other Cost	-	\$TBD
Total Project Cost	-	\$TBD

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2030	Design & Permit (months)	36	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	-	-		
2025	\$TBD	Design, Permitting		

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This project is expected to increase routine maintenance, the extents of which will be dependent upon selected technology.

Project Working Title: Route 28 West Sewer Expansion - Construction

Project Location: Route 28 from Phinney’s Lane to Route 149; East Osterville Road; Old East Osterville Road; & Marstons Mills Wastewater Treatment Facility

Project Description: The proposed project will extend municipal sewer on Route 28 from Phinney’s Lane to Route 149 in Marstons Mills. Also included in this project would be the conversion of the existing Marstons Mills Wastewater Treatment Plant (MMWWTP) to a municipal wastewater pump station, which would be, designed to sewer the nearby properties, as part of a future Phase 1 project, and associated sewers in East Osterville Road and Old East Osterville Road. The project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2025. This project will install approximately 5.2 miles of sewers, connect approximately 150 properties to municipal sewer, collect approximately 36,000 gallons per day of wastewater, and remove approximately 3.6 kg/day of nitrogen.



Project Justification: The project will install critical infrastructure, which will facilitate sewer expansion to the western portion of the Town as required by the CWMP. Additionally, the project will decommission the MMWWTP, which was constructed in 1993 and is beyond its 20-year design life. Without the infrastructure to be installed as part of this project, the further western expansion of the municipal sewer system as required in the CWMP cannot be achieved.

Impact of Denial/Postponement: The western sewer expansion required in the CWMP would be delayed, resulting in continued water quality degradation in the western part of Town. In addition, the Town would continue to invest money into the MMWWTP which has reached its expected life cycle and will likely require capital improvements if treatment at the facility is to continue.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$30,000,000
	Project Management	-	\$750,000
	Project Contingency	-	\$3,750,000
	All Other Cost	-	\$500,000 (Police Details)
	Total Project Cost	-	\$35,000,000

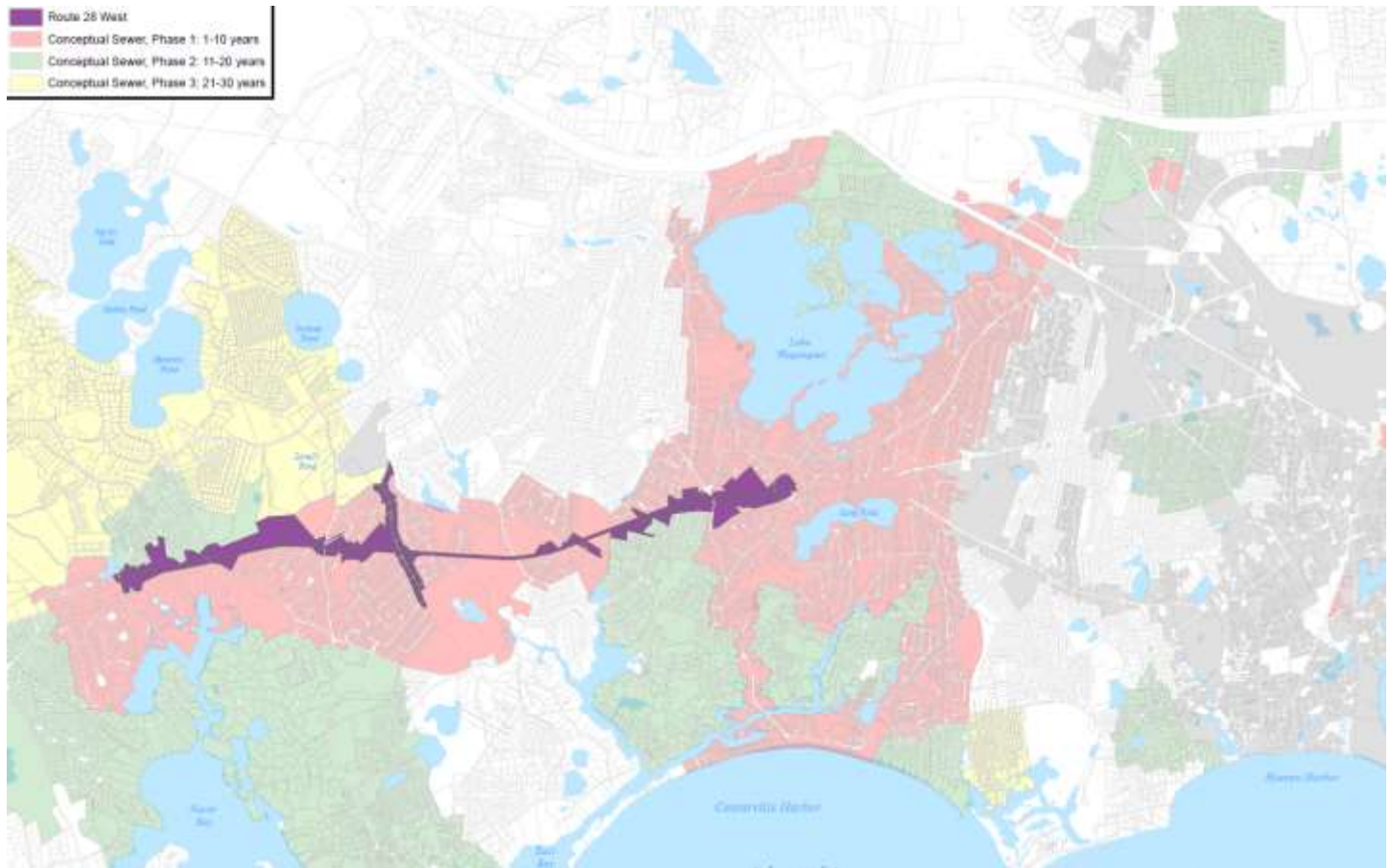
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2024	Design & Permit (months)	36	Construction (months)	36
	(design/permitting) 2027 (construction)				
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$35,000,000	Construction			

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund

(SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Construction of the project will increase routine maintenance for the WPCD because of the new infrastructure being added to the system. This request is for engineering. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY27 so operating expenses and revenue are not projected until the following year.



Project Working Title: Nitrogen Removal Improvements at Water Pollution Control Facility

Project Location: Water Pollution Control Facility (WPCF)

Project Description: This project involves improvements to the WPCF process with a goal of reducing the average total nitrogen concentration of the treated effluent discharge from the facility to an average of 3 mg/L or less. In 2022, Wright-Pierce evaluated the WPCF's nitrogen removal process and has recommended that the facility be upgraded to a 4-stage Bardenpho process followed by a membrane bioreactor process. This recommendation was determined to provide the best effluent quality.

Project Justification: The WPCF is currently permitted to discharge treated effluent at a maximum nitrogen concentration of 10 mg/L. The average concentration achieved by the facility is currently 6 mg/L. The intent of this project is to reduce this concentration to an average of 3 mg/L or less. The Town's Comprehensive Wastewater Management Plan (CWMP) calls for an additional 2.1 MGD wastewater to be treated at the WPCF over the next thirty years. Reducing nitrogen concentration in plant effluent will reduce the total nitrogen load to the Lewis Bay watershed and minimize the number of required sewer projects in the Hyannis area to offset the nitrogen load. Additionally, reduced nitrogen concentrations will expand the Town's options for effluent disposal expansion alternatives. Finally, the recommended 4-stage Bardenpho process followed by a membrane bioreactor process will provide a very high quality treated effluent which is expected to provide improved opportunities for unanticipated additional treatment processes that may be required by regulators in the future to address contaminants of emerging concern. This project is identified in the Town's CWMP.

Impact of Denial/Postponement: The Town will continue to treat to a total nitrogen concentration of 6 mg/L, limiting the ability to find viable alternative effluent disposal locations and potentially requirement further sewer expansion within Lewis Bay Watershed.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$30,000,000
	Project Management	-	\$1,000,000
	Project Contingency	-	\$5,000,000
	Total Project Cost	-	\$36,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2025	Design & Permit (months)	24	Construction (months)	24
(design/permitting) 2027 (construction)					
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$36,000,000	Construction			

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: the project will increase routine maintenance as it will add a new, tertiary treatment process to the WPCF. The membranes being installed have a 10-year life cycle and will need to be replaced accordingly. Membrane replacements will cost approximately \$3,500,000 (in present day dollars) every 10 years.

Project Working Title: Headworks Improvements at Water Pollution Control Facility - Construction

Project Location: Barnstable Water Pollution Control Facility (WPCF)

Project Description: The purpose of this project is to construct improvements to the headworks station at the Water Pollution Control Facility. The improvements will address the condition, capacity and performance of the headworks building while making necessary upgrades to support the construction of future nitrogen removal improvements.

Project Justification: The headworks building at the Water Pollution Control Facility (WPCF) is the beginning of the wastewater treatment process. Wastewater is screened, grit and debris are removed, and flow is metered at this location. The headworks station includes odor control systems and chemical delivery systems. The existing headworks building was originally constructed in 1973 and the building has been expanded and upgraded once since it was put into service. In recent years, the building has shown advanced signs of degradation requiring emergency repairs including leaking channel walls, grit system failures, failing concrete and a failing odor control system. The Town recently carried out an evaluation of nitrogen removal technologies and the selected alternative requires improvements to the WPCF screening process in order to function properly. This project aims to design improvements to the WPCF headworks building that will extend the useful life of this process by approximately 30 years.

Impact of Denial/Postponement: If this project is not funded, the condition of the headworks building will continue to deteriorate. Grit and debris removal systems could fail resulting in the need for costly emergency repairs. The odor control system will operate at an increased risk of failure which could result in excessive odors in the area surrounding the treatment plant. Future nitrogen removal improvements will need to be put on hold until screening improvements are constructed.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$23,000,000
	Project Management	-	\$1,000,000
	Project Contingency	-	\$5,800,000
	All Other Cost	-	-
	Total Project Cost	-	\$29,800,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2025	Design & Permit (months)	24	Construction (months)	24
(design/permitting) 2027 (construction)					
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$29,800,000	Construction			

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This project would lead to less reactive maintenance to failures at the headworks building allowing for staff time to be reallocated to other preventative maintenance activities. Future operational cost impacts cannot be quantified until the design is complete. A major impact to the operational budget is not anticipated.



Photo 1: Mechanical Bar Screen



Photo 2: Odor Control System Access



Photo 3: Grit Cyclone



Photo 4: Grit Pumps

Project Working Title: Phinney’s Lane Sewer Expansion - Construction

Project Location: Neighborhoods to the west and east of Phinney’s Lane between Route 28 and Route 132

Project Description: Sewer expansion into neighborhoods on the west and east side of Phinney’s Lane between Route 28 and Route 132. The project will include gravity sewer, and some low-pressure sewers. This project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). This project will install approximately 10 miles of sewers, connect approximately 630 properties to municipal sewer, collect approximately 100,000 gallons per day of wastewater, and remove approximately 10 kg/day of nitrogen from the Centerville River Watershed.

Project Justification: Residences in this area are completely dependent on on-site solutions to address their wastewater, which has had a negative effect on Lake Wequaquet and the Centerville River. The project will utilize the sewer infrastructure being installed as part of the Strawberry Hill Road Sewer Expansion and the Route 28 East Sewer Expansion, further utilizing the investment in those assets. As a result, the CWMP has identified this project in Phase 1.



Impact of Denial/Postponement: If this project is not approved, homes in this area will have to continue to rely on on-site wastewater systems. As a result, Lake Wequaquet and the Centerville River will continue to receive nutrients at higher than recommended levels.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$27,000,000
	Project Management	-	\$800,000
	Project Contingency	-	\$3,200,000
	All Other Cost	-	\$1,000,000 (Police Details)
	Total Project Cost	-	\$32,000,000

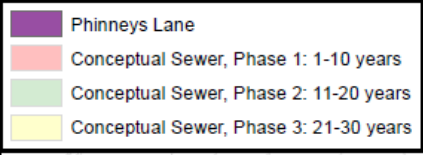
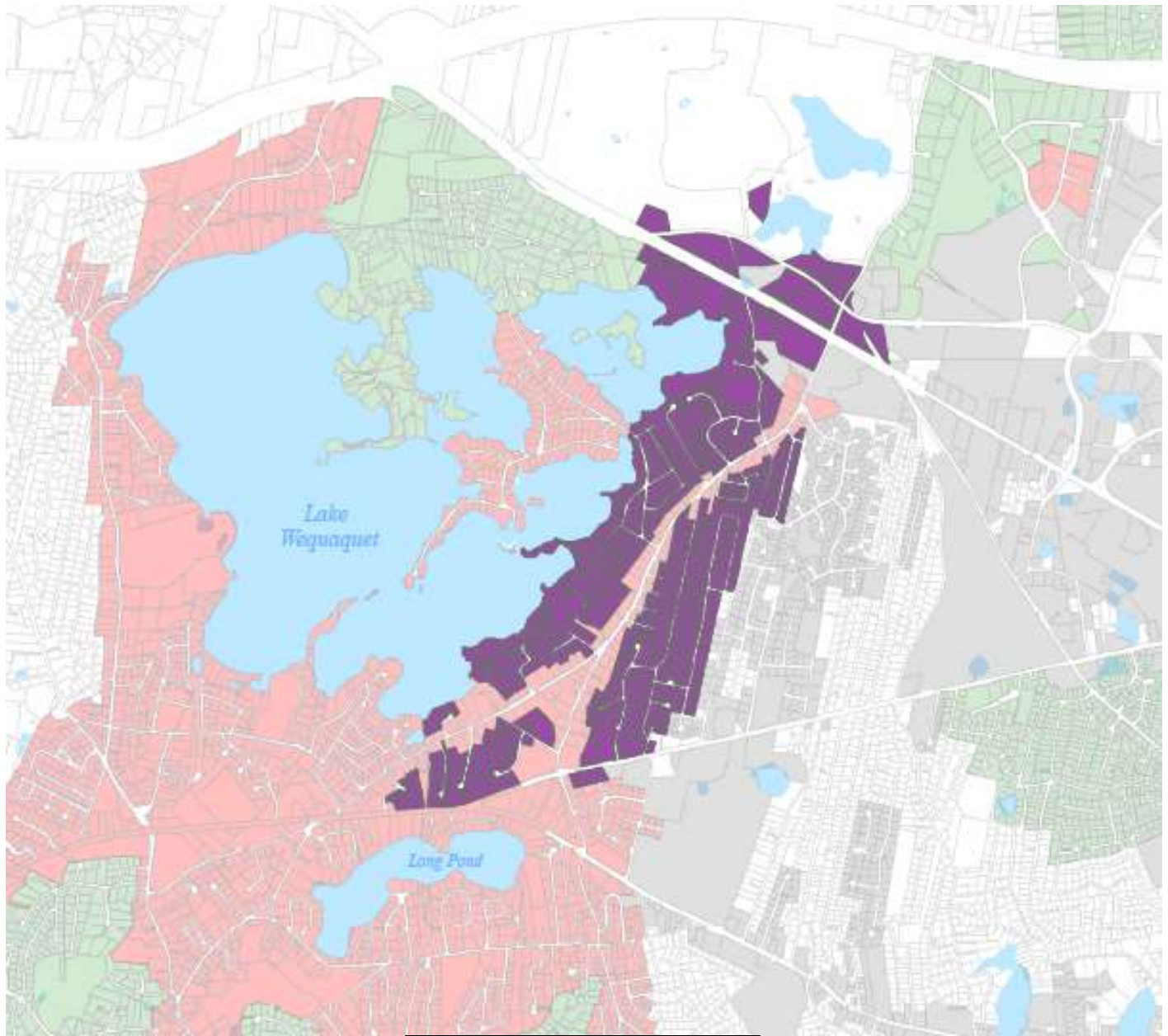
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024 (design/permitting) 2028 (construction)	Design & Permit (months)	36	Construction (months)	48
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	-	-		
2025	\$25,000,000	Construction		

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Construction of the project will increase routine maintenance for the WPCD

as a result of the new infrastructure being added to the system. Construction of the project will increase WPCD operating costs as a result of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY28 so operating expenses and revenue are not projected until that time.



Project Working Title: Shootflying Hill Road Sewer Expansion – Final Design & Permitting

Project Location: Shootflying Hill Road and adjacent neighborhoods, Centerville

Project Description: Expanding sewer to properties located within the roadways adjacent to Shootflying Hill Road. This project will include the installation of mostly gravity sewer, some low pressure sewer and multiple municipal pump stations. The project area has been identified as a needs area for nitrogen removal and pond protection and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). This request is to fund final design of the project. Construction is anticipated to begin in FY2027.

Project Justification: Shootflying Hill Road is anticipated to be sewerred in coordination with the Park City Wind Route Sewer Expansion Project. The Shootflying Hill Road Sewer Expansion Project would utilize the infrastructure installed in Shootflying Hill Road to reduce nutrient loading in the Centerville River Watershed as well as to Lake Wequaquet. The southern half of the project area has been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling. Additionally, many residences in this project area are located in close proximity to Lake Wequaquet and are completely dependent on-site solutions to address their wastewater needs. Most properties close to the lake have high groundwater, making replacing on-site septic systems very expensive. In recent years, Lake Wequaquet has experienced declining water quality. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP. This project will install approximately 4.0 miles of sewers, connect approximately 240 properties to municipal sewer, collect approximately 34,000 gallons per day of wastewater and remove approximately 3.4 kg/day of nitrogen from the Centerville River Watershed.

Impact of Denial/Postponement: The area would remain unsewered, the Centerville River Watershed and Lake Wequaquet would continue to receive nutrients and pollutants from septic systems, and residents adjacent to the lake would be subject to high costs to replace failed septic systems.

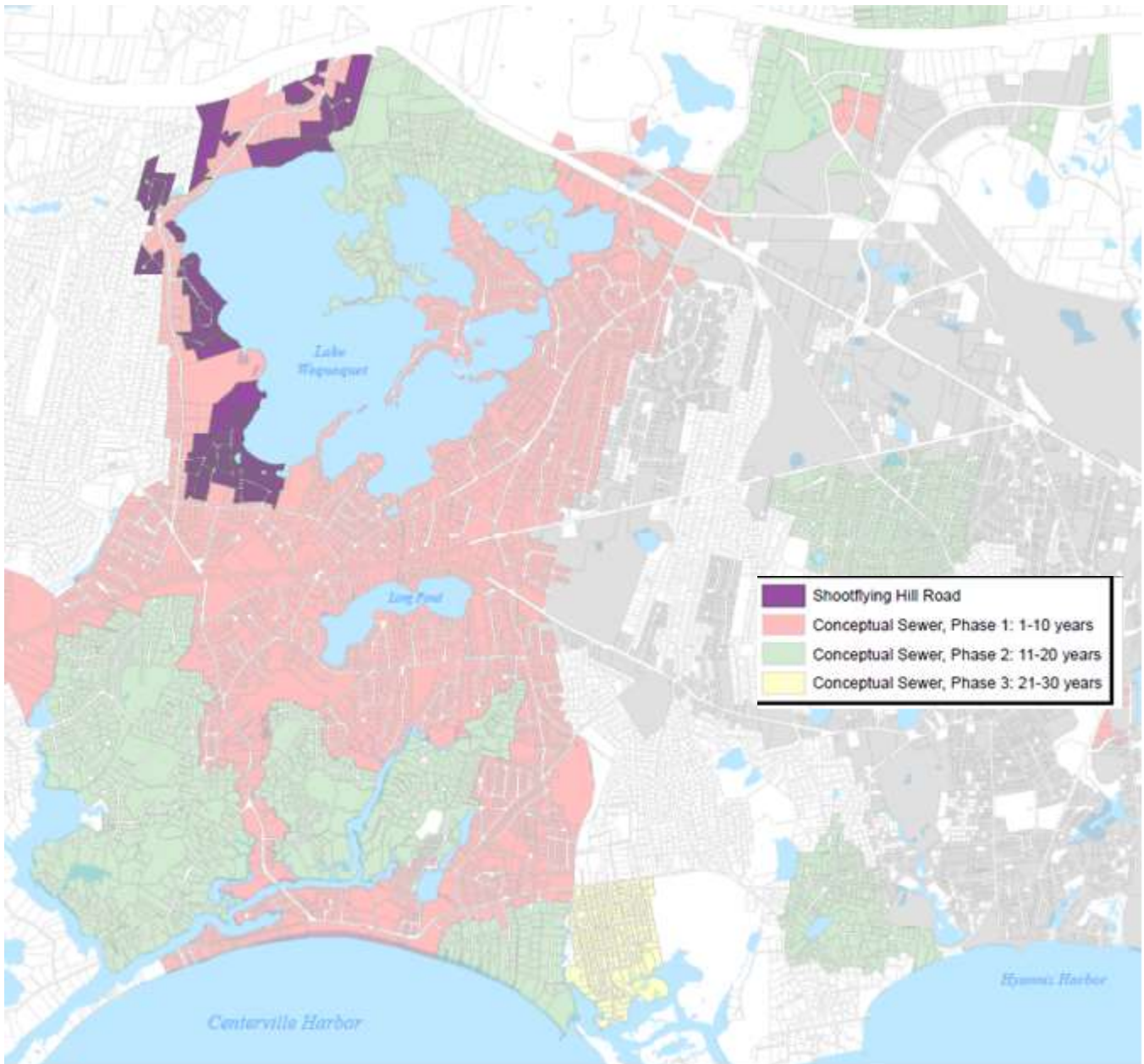
Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting	-	\$900,000
Construction or Acquisition	-	\$7,500,000	
Project Management	-	\$300,000	
Project Contingency	-	\$1,250,000	
All Other Cost	-	\$500,000	
Total Project Cost	-	\$10,450,000	

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	Design & Permit (months)	36	Construction (months)	24
2026 (design/permitting) 2028 (construction)				
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	-	-		
2025	\$900,000	Final Design and Permitting		
2026	-	-		
2027	\$9,500,000	Construction		
2028	-	-		

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase WPCD operating costs as a result of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY28 so operating expenses are not projected until that time.



Project Working Title: Great Marsh Road Sewer Expansion – Survey and Preliminary Design

Project Location: Great Marsh Road and adjacent neighborhoods, Centerville

Project Description: The project will expand municipal sewer to properties located on Great Marsh Road and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low pressure sewer and multiple municipal pump stations. The project area has been identified as a needs area for nitrogen removal and pond protection and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY2028.

Project Justification: The project area has been identified as a needs area for nitrogen removal within the Centerville River Watershed by Massachusetts Estuaries Program (MEP) modeling. Residences in this area are located in very close proximity to Lake Wequaquet and are completely dependent on on-site solutions to address their wastewater and as a result the project area has also been identified as a needs area for pond protection. Most properties close to the lake have high groundwater, making replacing on-site septic systems very expensive. In recent years, Lake Wequaquet has experienced declining water quality. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP. This project will install approximately 5.5 miles of sewers, connect approximately 350 properties to municipal sewer, collect approximately 48,000 gallons per day of wastewater and remove approximately 4.8 kg/day of nitrogen from the Centerville River Watershed.



Impact of Denial/Postponement: The area would remain unsewered, the Centerville River Watershed and Lake Wequaquet would continue to receive nutrients and pollutants from septic systems, and residents adjacent to the lake would be subject to high costs to replace failed septic systems.

Project Cost Estimates:	FY 2024	Future FY
Design & Permitting	-	\$1,700,000
Construction or Acquisition	-	\$12,000,000
Project Contingency	-	\$1,800,000
Project Management	-	\$1,000,000
All Other Costs	-	\$700,000
Total Project Cost	-	\$17,200,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2027 (design/permitting) 2030 (construction)	Design & Permit (months)	36	Construction (months)	36
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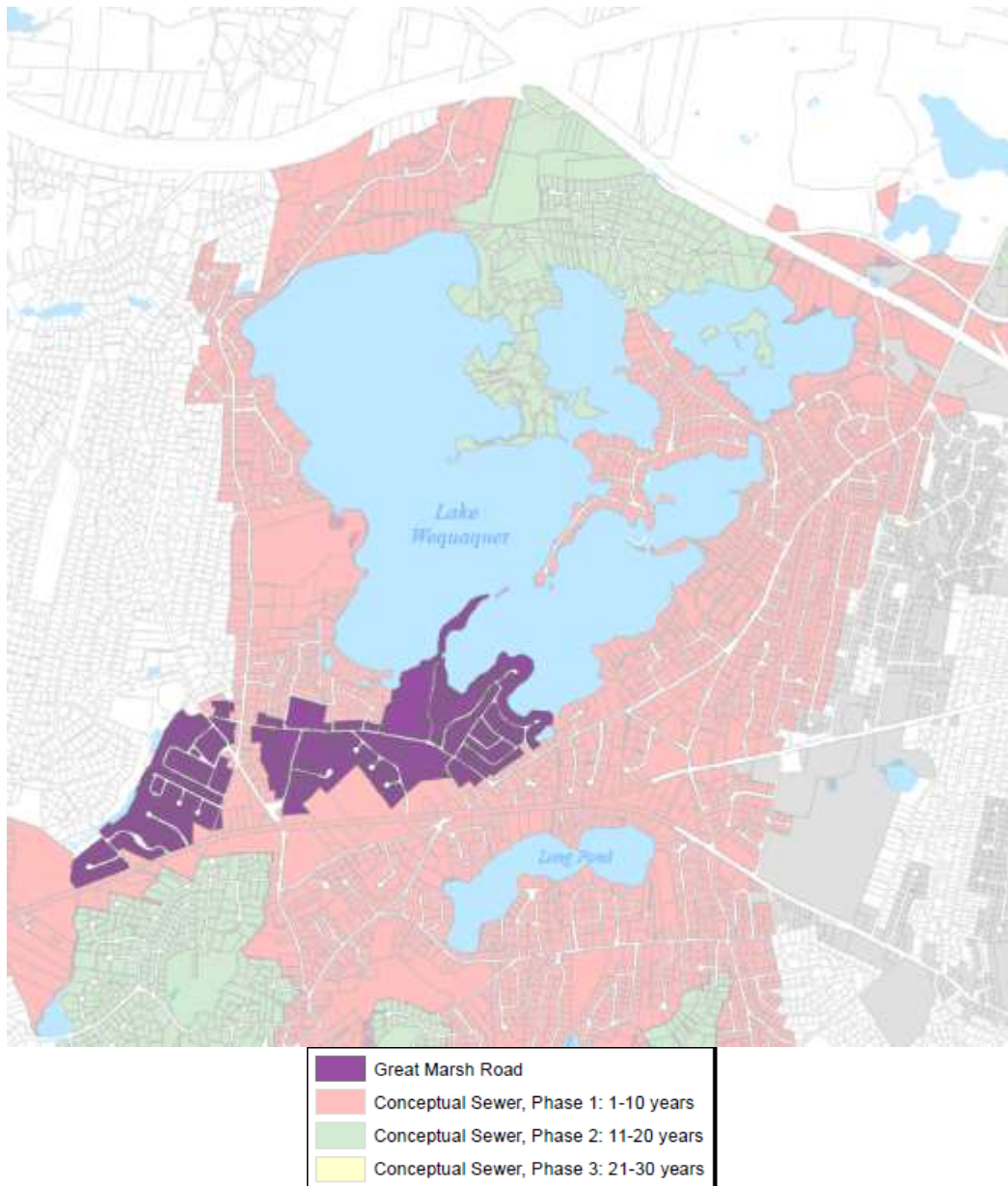
Cost/Description FY 2024 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	\$500,000	Survey and Preliminary Design
2026	\$1,200,000	Final Design and Permitting (Construction FY28)

2027	-	-
2028	\$15,500,000	Construction

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY 2030 so operating expenses and revenue is not projected until that time.



Project Working Title: Osterville Woods Sewer Expansion – Survey and Preliminary Design

Project Location: Osterville Woods neighborhoods, Osterville

Project Description: The project will expand municipal sewer to the residential properties located in the Osterville Woods neighborhood and adjacent neighborhoods. This project will include the installation of mostly gravity sewer, some low pressure sewer and at least one municipal pump station. The properties served will feed to the infrastructure to be installed as part of the Route 28 West and East projects. This project area has been identified as a needs area for nitrogen removal and drinking water well protection and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). This project will install approximately 4.5 miles of sewers, connect approximately 300 properties to municipal sewer, collect approximately 55,000 gallons per day of wastewater and remove approximately 5.5 kg/day of nitrogen.



Project Justification: The western portion of the project area has been identified as a needs area for nitrogen removal within the Three Bays Watershed by Massachusetts Estuaries Program (MEP) modeling. The entire project area has been identified as a needs area for drinking water well protection as the project area is located within the Zone II to COMM Water supply wells. As a result, the project area was identified as a needs area for nitrogen removal and pond protection and the project was identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain unsewered and the Three Bays Watershed and COMM drinking water wells would continue to receive nutrients and pollutants from septic systems.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$2,000,000
	Construction or Acquisition	-	\$14,500,000
	Project Contingency	-	\$2,250,000
	Project Management	-	\$750,000
	All Other Costs	-	\$1,000,000
	Total Project Cost	-	\$20,500,000

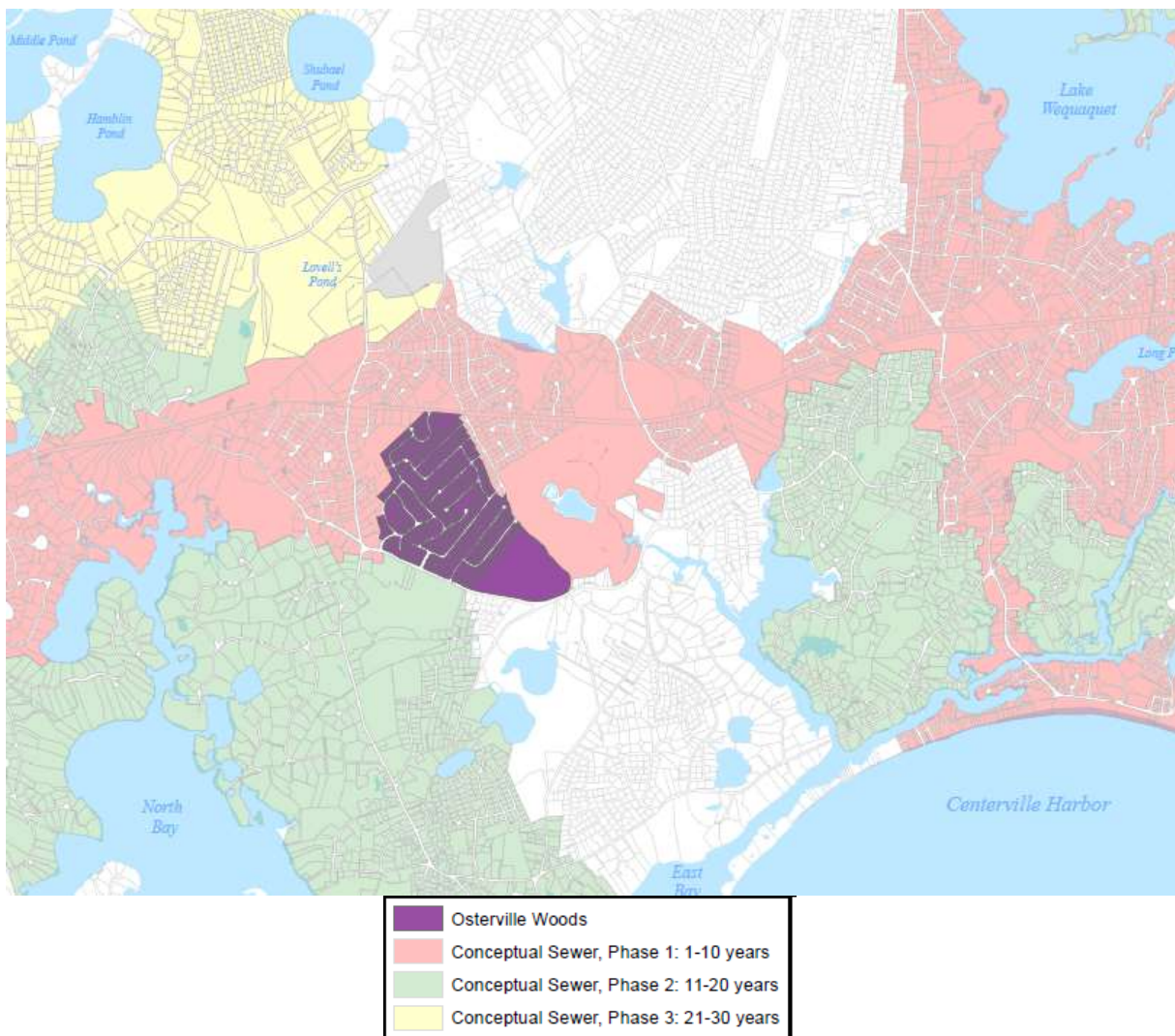
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2027 (design/permitting) 2030 (construction)	Design & Permit (months)	36	Construction (months)	36
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	\$600,000	Survey and Preliminary Design
2026	\$1,400,000	Final Design and Permitting (Construction FY28)
2027		
2028	\$18,500,000	Construction

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase routine maintenance for the WPCD because of the new infrastructure being added to the system. Construction of the project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY 2030 so operating expenses and revenue is not projected until that time.



Project Working Title: South County Road Sewer Expansion – Survey and Preliminary Design

Project Location: South County Road, Osterville West Barnstable Road (south of Route 28), and adjacent neighborhoods



Project Description: Expanding sewer to the properties located off South County Road and Osterville West Barnstable Road (south of Route 28). This project area has been identified as a needs area for nitrogen removal and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2030.

Project Justification: The project area have been identified as a needs area for nitrogen removal within the Three Bays Watershed by Massachusetts Estuaries Program (MEP) modeling. As a result, the project area has been identified in Phase 1 of the CWMP. This project will install approximately 3.6 miles of sewers, connect approximately 160 properties to municipal sewer, collect approximately 35,000 gallons per day of wastewater, and remove approximately 3.6 kg/day of nitrogen from the Three Bays Watershed.

Impact of Denial/Postponement: The area would remain unsewered and the Three Bays Watershed would continue to receive nutrients and pollutants from septic systems.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$1,000,000
	Construction or Acquisition	-	TBD Beyond 5 Years
	Total Project Cost	-	\$1,000,000

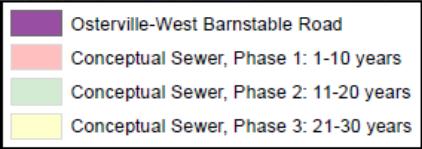
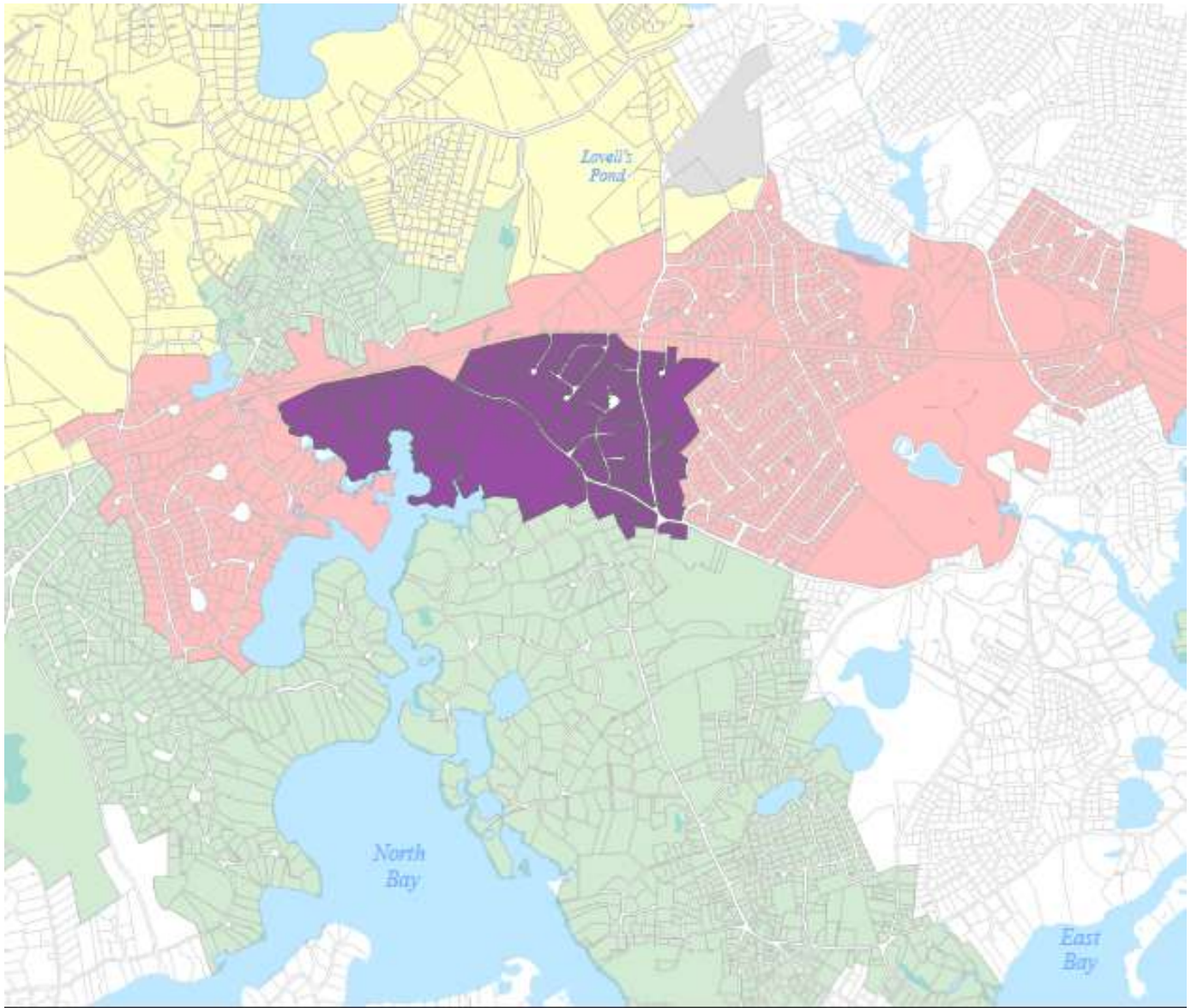
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2028	Design & Permit (months)	36	Construction (months)	24
(design/permitting) 2030 (construction)					
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	-	-			
2026	\$300,000	Survey and Preliminary Design			
2027	\$700,000	Final Design and Permitting (Construction FY30)			

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase routine maintenance for the WPCD because of the new infrastructure being added to the system. Construction of the

project will increase WPCD operating costs because of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY30 so operating expenses and revenue are not projected until that time.



Project Working Title: Long Beach Sewer Expansion – Construction

Project Location: Long Beach Road, Short Beach Road, Lake Elizabeth Drive and adjacent roadways

Project Description: Construction of sewer expansion to the south of Route 28 around Long Pond in Centerville. It will include gravity sewer, low-pressure sewer, and multiple pump stations. This project is identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). This project will install approximately 9 miles of sewers, connect approximately 530 properties to municipal sewer, collect approximately 100,000 gallons per day of wastewater and remove approximately 10 kg/day of nitrogen from the Centerville River Watershed.

Project Justification: Businesses and residences in this area are completely dependent on on-site solutions to address their wastewater, which has had a deleterious effect on Long Pond and the Centerville River. As a result, the project is identified in Phase 1 of the Comprehensive Wastewater Management Plan.



Impact of Denial/Postponement: Homes and businesses will continue to have to rely on on-site wastewater solutions. Long Pond and Centerville River will continue to receive unhealthy levels of nutrients. The Town ultimately may find that it is forced into this work by regulators or lawsuits due to the Centerville River TMDL.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$30,000,000
	Project Management	-	\$750,000
	Project Contingency	-	\$4,000,000
	All Other Cost	-	\$250,000 (Police Details)
	Total Project Cost	-	\$35,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date:	2024 (survey), 2026 (design/permitting), 2030 (construction)	Design & Permit (months)	48	Construction (months)	48
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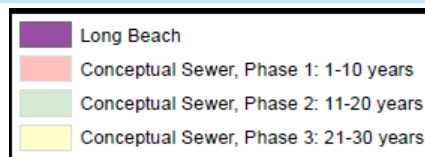
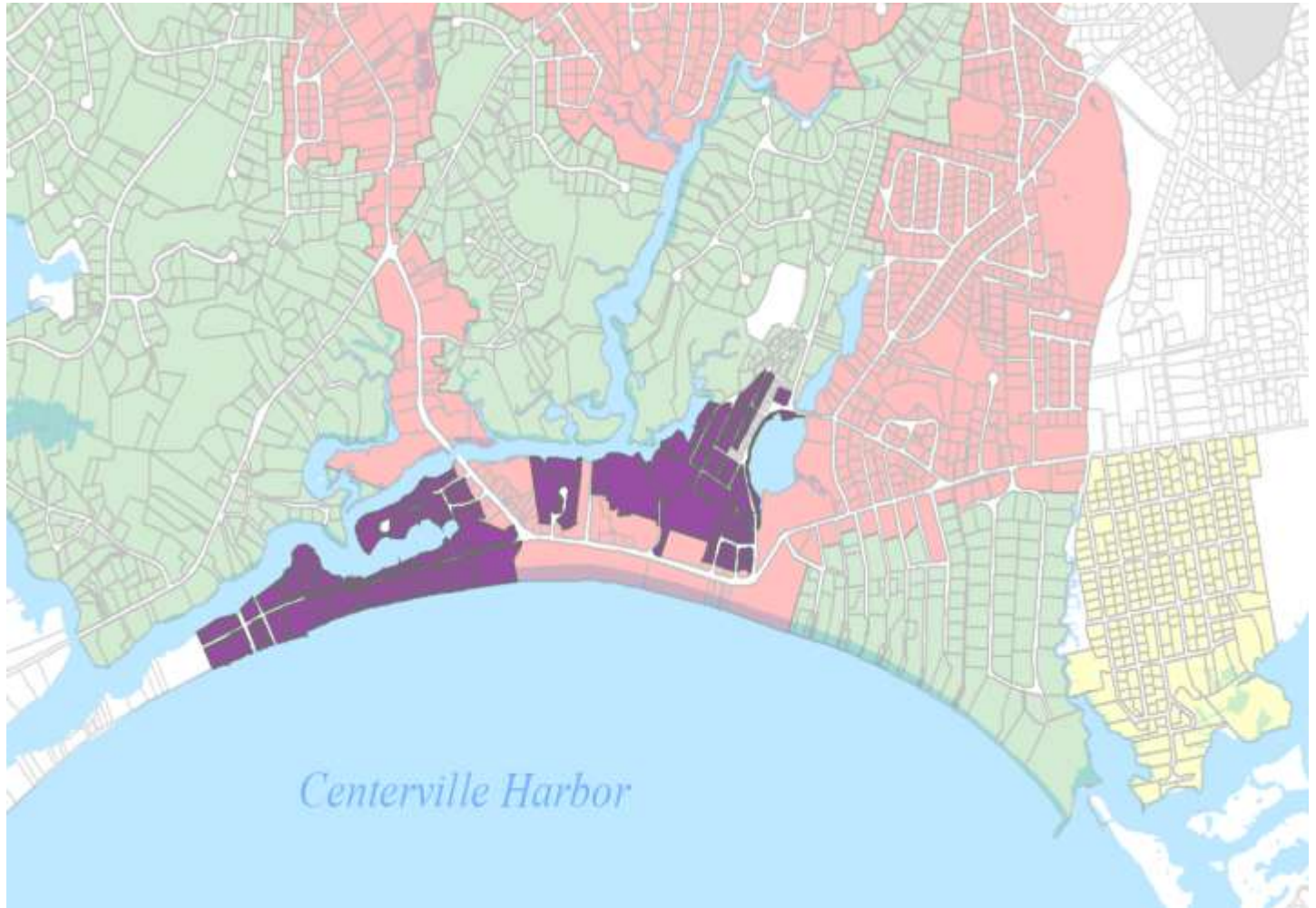
Cost/Description FY 2024 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	-	-
2026	-	-
2027	\$35,000,000	Construction
2028		

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund

(SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Construction of the project will increase WPCD operating costs as a result of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY30 so operating expenses and revenue are not projected until that time.



Project Working Title: Prince Cove Sewer Expansion – Survey and Preliminary Design

Project Location: Properties on the north and east side of Prince Cove, Marstons Mills

Project Description: Expanding sewer to the properties located on the north and east side of Prince Cove. This project area has been identified as a needs area for nitrogen removal and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). This project will install approximately 5 miles of sewers, connect approximately 200 properties to municipal sewer, collect approximately 45,000 gallons per day of wastewater and remove approximately 4.5 kg/day of nitrogen from the Three Bays Watershed. Construction is anticipated to begin in FY 2030.



Project Justification: The project area has been identified as a needs area for nitrogen removal within the Three Bays Watershed by Massachusetts Estuaries Program (MEP) modeling. As a result, the project area has been identified in Phase 1 of the CWMP.

Impact of Denial/Postponement: The area would remain unsewered and the Three Bays Watershed would continue to receive nutrients and pollutants from septic systems.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$1,400,000
	Construction or Acquisition	-	TBD Beyond 5 Years
	Total Project Cost	-	\$1,400,000

Basis for Cost Estimates: Department of Public Works Engineering

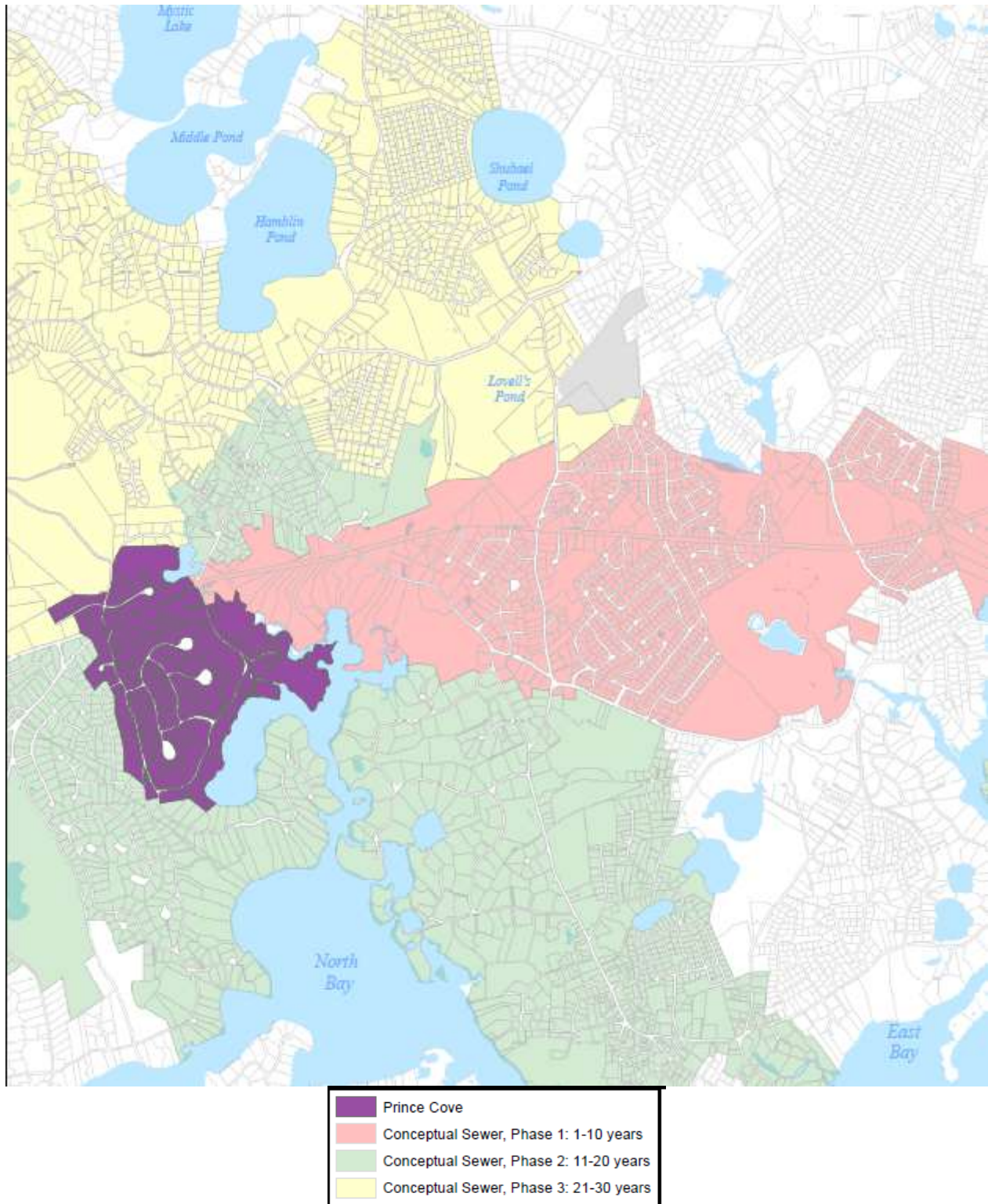
Project Estimated Completion Date: 2028 (design/permitting) 2030 (construction)	Design & Permit (months)	36	Construction (months)	24
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	-	-
2026	-	-
2027	\$400,000	Survey and Preliminary Design (Construction FY30)
2028	\$1,000,000	Final Design

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase routine maintenance for the WPCD as a result of the new infrastructure being added to the system. Construction of the

project will increase WPCD operating costs as a result of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY30 so operating expenses and revenue are not projected until that time.



Project Working Title: Huckins Neck Road Sewer Expansion – Survey and Preliminary Design

Project Location: Huckins Neck Rd Barnstable, MA 02632

Project Description: Expanding sewer to properties located on Huckins Neck, adjacent to Lake Wequaquet, Shallow Pond, and Bearse Pond. This project will include the installation of mostly gravity sewer, some low pressure sewer, and at least one municipal pump station. The project area was identified as a needs area for pond protection and as a result this project was identified in Phase 1 of the Comprehensive Wastewater Management Plan (CWMP). Construction is anticipated to begin in FY 2030.

Project Justification: Residences in this area are located in very close proximity to Lake Wequaquet, Shallow Pond, and Bearse Pond and are completely dependent upon on-site solutions to address their wastewater. Additionally, most properties in this area have high groundwater, on replacing on-site septic systems is very expensive. In recent years, Lake Wequaquet, Shallow Pond, and Bearse Pond have experienced declining water quality. As a result, the project area was identified as a needs area for pond protection and the project was identified in Phase 1 of the CWMP. This project will install approximately 2.0 miles of sewers, connect approximately 150 properties to municipal sewer, collect approximately 21,500 gallons per day of wastewater and remove approximately 2.1 kg/day of nitrogen from the Centerville River Watershed.



Impact of Denial/Postponement: The area would remain unsewered and the Three Bays Watershed would continue to receive nutrients and pollutants from septic systems.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$1,000,000
	Construction or Acquisition	-	TBD Beyond 5 Years
	Total Project Cost	-	\$1,000,000

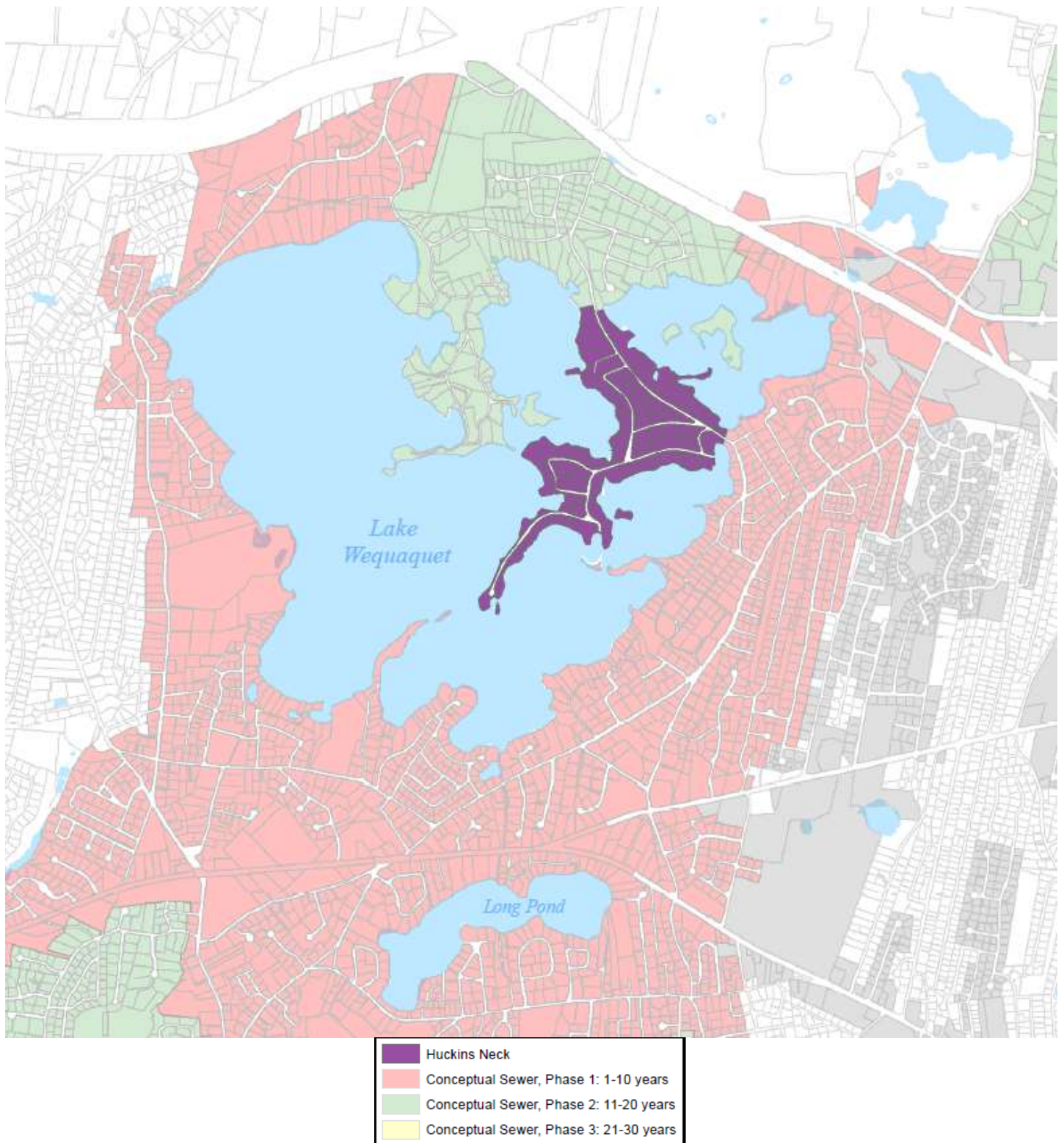
Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2029 (design/permitting) 2031 (construction)	Design & Permit (months)	36	Construction (months)	24
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	-	-
2026	-	-
2027	\$300,000	Survey and Preliminary Design (Final Design FY29 & Construction FY30)
2028	\$700,000	Final Design

Source of Funding: Sewer Construction and Private Way Fund. Design/permitting is not eligible for State Revolving Fund (SRF) funding. Construction may be eligible for SRF funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This request is for engineering. Construction of the project will increase routine maintenance for the WPCD as a result of the new infrastructure being added to the system. Construction of the project will increase WPCD operating costs as a result of increased routine maintenance, personnel needs, electricity, etc. associated with the new infrastructure. Revenue will be generated in the form of sewer assessments and sewer usage fees. Construction is anticipated to be completed in FY 2031 so operating expenses and revenue is not projected until that time.



Project Working Title: Mill Pond Dredging Project

Project Location: Mill Pond, Marstons Mills

Project Description: This project will continue the Town's efforts to enhance the natural nitrogen treatment abilities within the Three Bays watershed by using a series of nontraditional projects in a way that acts as a comprehensive treatment system. The first project is to dredge Mill Pond to the extent permissible, thereby increasing the water residence time and improving nitrogen removal of the pond. It is anticipated that this project will involve the removal of up to 30,000 cubic yards of material from the pond.

Project Justification: Mill Pond has progressively been filling with silt and debris since its creation, to the point that it is in danger of becoming a bog with a stream meandering through it. Its nitrogen removal capacity has been on the decline from a measured 20% removal to 10% removal during the past 20 years. By comparison, healthy ponds have exhibited 30% to 50% nitrogen removal. Additional nitrogen removal resulting from this project will be quantified through post dredging water quality monitoring, which will be used to set the new baseline of nitrogen removal from Mill Pond into the Three Bays estuary and determine if the amount of proposed sewer expansion in Phase 3 can be reduced.

Impact of Denial/Postponement: Restoration of Mill Pond is identified as an ideal project to be implemented in the first phase (years 0-10) of the CWMP and is one of few opportunities to reduce the nitrogen load to the Three Bays over the near term. Postponement would extend nitrogen reduction in the Three Bays beyond phase 1.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$50,000
	Construction or Acquisition	-	\$4,000,000
	Project Contingency	-	\$1,000,000
	Monitoring	-	\$150,000
	Total Project Cost	-	\$5,200,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: March 2026	Design & Permit (months)	24	Construction (months)	TBD
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Cost/Description FY 2024 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	\$50,000	Permitting
2026	\$5,000,000	Construction
2027	\$150,000	Post Restoration Monitoring
2028	-	-

Source of Funding: Sewer Construction and Private Way Fund. Grants will be pursued for the project once permits are acquired.

Operating Budget Impact now or in future: None



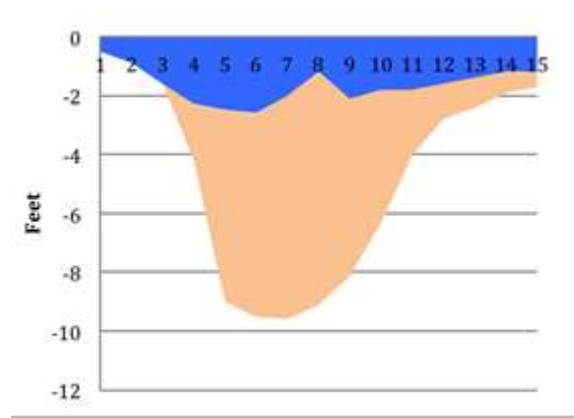
Surface of Mill Pond with aquatic vegetation overgrowth.



Surface of Mill Pond with aquatic vegetation overgrowth.



Mill Pond is located adjacent to the intersection of Route 149 and Route 28.



Total depth of soft sediments (peach) versus the total depth of water (blue)

Enterprise Fund Projects

Airport Enterprise Fund

PROJECT: AIR-24

DEPARTMENT PRIORITY: 8 of 14

Project Working Title: Design, Construct, Relocate and Extend Taxiway B (Approx. 4,500ft x 50ft) between the East Ramp and RWY 6-24 (not including the Glide Slope critical area)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: As part of the Federal Aviation Administration’s (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project serves to correct major deterioration associated with taxiway Bravo (circa 1962) as well as realigning, reconstructing, shifting and extending the taxiway to insure compliance with regulatory guidance.

Project Justification: This project is among the final steps in a multi-year process to modify and bring the airport runways and associated taxiways into compliance with FAA airport design criteria; and to meet the requirements of the FAA Airport Layout Plan and the Airport Master Plan. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Bravo as having a pavement condition index (PCI) of 34, with 0 being the worst condition, to 100 being the best condition. A PCI of 85 to 100 normally requires only preventative maintenance. A PCI of 55 to 70 requires major rehabilitation. The project is also subject to the Airport Master Plan Update review and permitting which may identify the project to include realigning, reconstructing, shifting and extending the taxiway.



The project increased in scope in 2021 due to the results of the airport master plan and the length of pavement to be replaced (from 1,600ft x 50ft to 4,500ft x 50ft).

Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect aircraft and airport operations for the airport, and the airport will not be in compliance with FAA airport design criteria.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$600,000
	Construction or Acquisition	-	\$8,195,000
	All Other Cost	-	\$5,000
	Total Project Cost	-	\$8,800,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other runway rehabilitations recently installed at other airports and construction costs and rates as of July 2020. Updates were provided in July 2021.

Project 2025/26	Estimated Completion Date: FY	Design & Permit (months)	12	Construction (months)	10-12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$8,800,000	Design, Construct, Relocate and Extend Taxiway B (Approx. 1,600ft x 50ft) between the East Ramp and RWY 6-24 (not including the Glide Slope critical area)			

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%) from airport enterprise funds. Airport share is \$440,000.

Operating Budget Impact now or in future: New pavement will reduce labor and maintenance costs.



Relocate and Extend Taxiway B (Approx. 4,500ft x 50ft)

Project Working Title: Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow for EMAS circa 2004).

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly to better serve their function and quickly and efficiently respond to airfield snow removal tasks and emergencies; and if certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace the 2004 ASV Diesel Skid Steer Plow for use on the EMAS system).

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.



Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$27,000
	Construction or Acquisition	-	\$70,000
	All Other Cost	-	\$3,000
	Total Project Cost	-	\$100,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other equipment purchases and recent purchases at other airports as of August 2020. Updates estimates were provided in July 2021.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	6-12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$100,000	Replace SRE Equipment - Airport #38 (ASV Skid Steer Plow for EMAS circa 2004).			

Source of Funding: Funding by MassDOT AD (80%), and local share (20%) from airport enterprise funds. Airport share is \$20,000.

Operating Budget Impact now or in future: Routine vehicle maintenance.



Airport #38 (ASV Skid Steer Plow for EMAS circa 2004)

Project Working Title: Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) must be maintained regularly to better serve their function and quickly and efficiently respond to airfield snow removal tasks and emergencies; and if certain Federal Aviation Administration (FAA) approved equipment is eligible for replacement with FAA grant assistance, SRE vehicles and equipment must be evaluated and replaced as necessary. This project is to replace Airport #32 (Chevy 2500HD circa 2001)

Project Justification: With approximately 1.5 million square feet of pavement, that includes two active runways, several aircraft taxiways and aircraft parking ramps that must be maintained and opened as soon as possible during snow events and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.



Impact of Denial/Postponement: The airport may not be able to meet mandated FAA FAR Part 139 certification requirements and would be decertified; the airport would not be able to maintain operations, nor remove snow in order to keep the runways open and safe for operation; the airport would be unable to provide a safe operation for the continuation of commerce as part of the national airspace plan; the airport would be unable to respond to airfield emergencies, with the potential for decreased flight safety, increased property damage, and would unnecessarily endanger lives and property.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$77,000
	All Other Cost	-	\$3,000
	Total Project Cost	-	\$80,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other equipment purchases and recent purchases at other airports as of August 2020. Updates were provided in July 2021.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$80,000	Replace SRE Equipment - Airport #32 (Chevy 2500HD circa 2001)			
2026	-	-			

Source of Funding: Funding by MassDOT AD (80%), and local share (20%) from airport enterprise funds. Airport share is \$16,000

Operating Budget Impact now or in future: Routine vehicle maintenance.



Airport #32 (Chevy 2500HD circa 2001)

Project Working Title: Design & Construct Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Although passenger activity at the Airport does not necessitate a jet bridge or jetway a passenger boarding bridge may be needed in the future as the airport strives to entice airline activity. Currently, JetBlue uses roll up stairs that do not connect to the terminal. An enclosed, movable connector, which most commonly extends from an airport terminal gate to an airplane, allowing passengers to board and disembark without going outside and being exposed to harsh weather is ideal.

The project is to design and install a jet bridge or jetway passenger boarding bridge.

Project Justification: The Airport Business Plan identifies priority marketing and business efforts with targeted goals to increase development, passenger throughput, and airport use.

The Business Plan goals include:

- Improving General Aviation Services
- Diversifying Airport Revenue Stream
- Becoming a Leader in Air Transportation Options for the Cape, Islands and Southeastern Massachusetts
- Developing Airport Branding

With these goals in mind, there are a number of projects that can be implemented at the airport to help establish or improve existing facilities and to better market the airport, such as this proposed project. This project would respond to the need to improve Air Transportation Options for the Cape, Islands and Southeastern Massachusetts while also allowing for additional revenue potential from airlines who we do not currently serve.

Impact of Denial/Postponement: This project is being proposed to improve commercial aviation services and to assist in the further development of the airport. This will allow the airport to meet Business Plan goals to increase development, passenger throughput and airport use mainly by Improving Air Transportation Options for the Cape, Islands and Southeastern Massachusetts.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$375,000
	Construction or Acquisition	-	\$1,120,000
	All Other Cost	-	\$5,000
Total Project Cost	-	\$1,500,00	

Basis for Cost Estimates: Fennick & McCredie (on-call airport architectural firm) conducted cost estimates based on other equipment purchases and recent purchases at other airports as of August 2020. Updates to the estimates were provided in July 2021.

Project Estimated Completion Date: FY 2025	Design & Permit (months)	6	Construction (months)	6-12
Cost/Description FY 2024 and Follow-On Years:				

Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	\$1,500,000	Design & Construct Terminal Upgrades - Jetway/Gate Expansion/Hold room expansion
2026	-	-

Source of Funding: Funding by MassDOT AD (80%), and local share (20%) from airport enterprise funds. Airport share is \$300,000

Operating Budget Impact now or in future: Facility routine maintenance is expected.

Project Working Title: Design & Construct Reconstruction and Re-Alignment of Taxiways Delta and Echo at Runway 15 (includes Run-Up Pit). Consider environmental factors.

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: As part of the Federal Aviation Administration’s (FAA) goals to improve and correct airport layout deficiencies, enhance aircraft safety, and insure compliance with regulatory guidance, this project serves to correct major operational aircraft ground and runway safety area (RSA) deficiencies associated with a portion of taxiway Delta (circa 1998) and taxiway Echo (circa 1980) where they intersect with Runway 15-33.

Project Justification: This reconstruction project for approximately 1,300 foot by 50 foot portion of Taxiway D (between Taxiway Charlie and Runway 15-33) and the entire 800 foot x 50 foot Taxiway Echo and aircraft engine run-up pit of approximately 54,000 square feet in size, are among the final steps in a multi-year process to modify and bring the airport runways and associated taxiways into compliance with FAA airport design criteria; and to meet the requirements of the FAA Airport Layout Plan and the Airport Master Plan. In June of 2013, the MassDOT Aeronautics Division completed a statewide pavement management report that shows Taxiway Delta as having a pavement condition index (PCI) of 86, with 0 being the worst condition, to 100 being the best condition. A PCI of 85 to 100 requires normally requires only preventative maintenance. Taxiway Echo was identified in the same report as having a PCI of 59. A PCI of 55 to 70 requires major rehabilitation. A new MassDOT pavement condition index report is being conducted to update and confirm the earlier study. The project is also subject to the Airport Master Plan Update review and permitting.



Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect aircraft and airport operations for the airport, and the airport will not be in compliance with FAA airport design criteria.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$660,000
	Construction or Acquisition	-	\$4,635,000
	All Other Cost	-	\$5,000
	Total Project Cost	-	\$5,300,000

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates based on other runway rehabilitations recently installed at other airports and construction costs and rates as of July 2020. Cost estimates were updated in July 2021.

Project Estimated Completion Date:	FY	Design & Permit (months)	6-12	Construction (months)	6-10
2025/26					
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	-	-			
2026	\$5,300,000	Design & Construct Reconstruction and Re-Alignment of Taxiways Delta and Echo at			

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%) from airport enterprise funds. Airport share is \$265,000.

Operating Budget Impact now or in future: New pavement will reduce labor and maintenance costs.



Taxiway E



Taxiway D

Project Working Title: Terminal Upgrades - Restroom remodel (BIL Act Funds)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: As part of the Bipartisan Infrastructure Law (BIL), Federal Aviation Administration (FAA) has allowed airports to make improvements to terminal facilities. Through BIL, \$5 billion has been granted to provide competitive grants for airport terminal development projects that address the aging infrastructure of the nation’s airports. These grants will fund safe, sustainable and accessible airport terminals. Cape Cod Gateway Airport was awarded \$1,015,864 in FY2022 under BIL and this will be an annual funding source (although the amount may fluctuate up in other fiscal years or if approved for funding by the FAA).

Project Justification: Construction of the Airport Terminal and Air Traffic Control Tower was completed in the fall of 2011. Both facilities are over 11 years old and some of the appliances and infrastructure such as the restrooms are showing their age and need replacement.



Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect the public’s view of the airport. The Airport must be an inviting space for the public as they visit on vacation or their secondary summer homes.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$1,015,864
	Total Project Cost	-	\$1,015,864

Basis for Cost Estimates: Airport Solutions Group (on-call airport engineering firm) conducted cost estimates.

Project Estimated Completion Date: 2026/27	FY	Design & Permit (months)	12-36	Construction (months)	-
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Cost/Description FY 2024 and Follow-On Years:		
Fiscal Year	Cost	Project Description/Components
2024	-	-
2025	-	-
2026	\$1,015,864	Terminal Upgrades - Restroom remodel (BIL Act Funds)

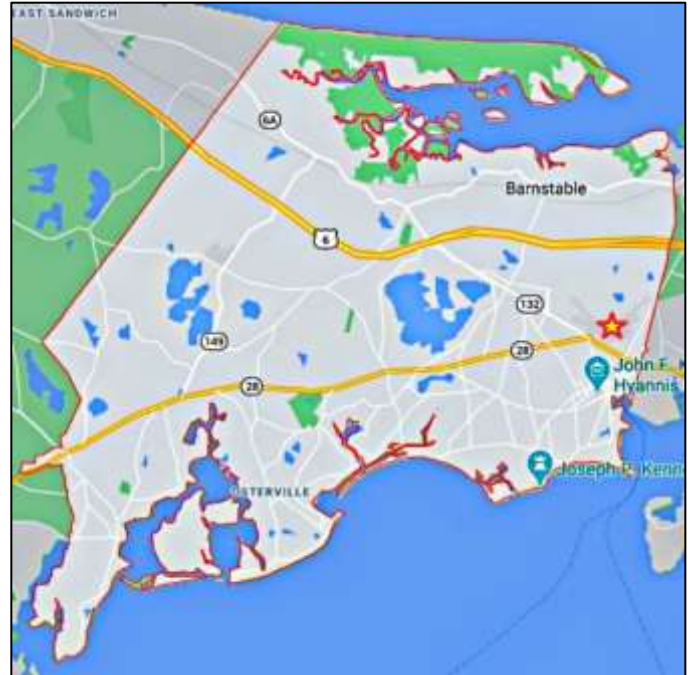
Source of Funding: Funding by FAA (90%) (AIP and /or FAA Supplemental Funding), MassDOT AD (5%), and local share (5%) from airport enterprise funds. Airport share is \$50,793.20.

Operating Budget Impact now or in future: N/A

Project Working Title: Design & Acquire Easements/Acquisition for Future Construction/Runway extension - acquisition will be implemented on a phased approach as properties become available or easements acquired.

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Airport owners occasionally need to acquire land for expansion of the airport or to protect the approaches to the runways. The Federal Aviation Administration (FAA) provides funding for these purposes. It is always preferable for an airport to be surrounded by a buffer of vacant property. However, when adjacent property has already been developed, the FAA may conclude that an aviation easement is appropriate to control any future land use that might be hazardous to flight and protect the airspace from obstructions. When public airports receive federal funds for improvement projects, the airport must agree to abide by FAA regulations. Certain regulations require the acquisition of sufficient property rights that will protect both pilots and the people on the ground.



An aviation easement is a property right acquired from a landowner which protects the use of airspace above a specified height, and imposes limitations on use of the land subject to the easement. Generally, uses that attract birds or interfere with pilot visibility and instrumentation are prohibited. Whether or not existing uses and structures are permitted to remain often is a function of the distance from the runway. Any manmade structures or natural growth which penetrates the specified heights must be removed. A typical aviation easement not only describes the rights acquired and restrictions on the use of the property, it will also include a document called Exhibit A, which provides a graphic depiction of the elevations and dimensions of the easement.

Recent updates to federal requirements for runway protection zones (RPZ) require the addition of a number of potential parcels and thus costs for this project has increased.

Project Justification: Easements may be needed and necessary to implement development alternatives that improve the airport and future operations whether it is safety or capacity related. The following projects that are part of the Airport Master Plan Update may require easements:

- Viability of and options for extending Runway 15/33;
- Review of Runways 15/33 & 6/24 Enhancements & Improvements;
- Analysis of access road improvements;
- Reviewing obstruction analysis of FAR Part 77 surfaces and obstruction removal options; and
- Examining other issues as detailed in the Airport Master Plan.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will not allow the Airport to be in full compliance with Federal, State, and Local agencies and may also have long term financial consequences with regard to receipt of future Federal and State grants.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$13,500,000
	Total Project Cost	-	\$13,500,000

Basis for Cost Estimates: McFarland Johnson (on-call airport planning consulting firm) conducted cost estimates based on past reporting and monitoring requirements as of August 2020.

Project 2027/28	Estimated Completion Date: FY	Design & Permit (months)	12-36	Construction (months) -
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	-	-		
2025	-	-		
2026	-	-		
2027	\$6,750,000	Design & Acquire Easements for Future Construction/Runway extension		
2028	\$6,750,000	Design & Acquire Easements for Future Construction/Runway extension		

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%). Airport share is \$174,932.

Operating Budget Impact now or in future: N/A

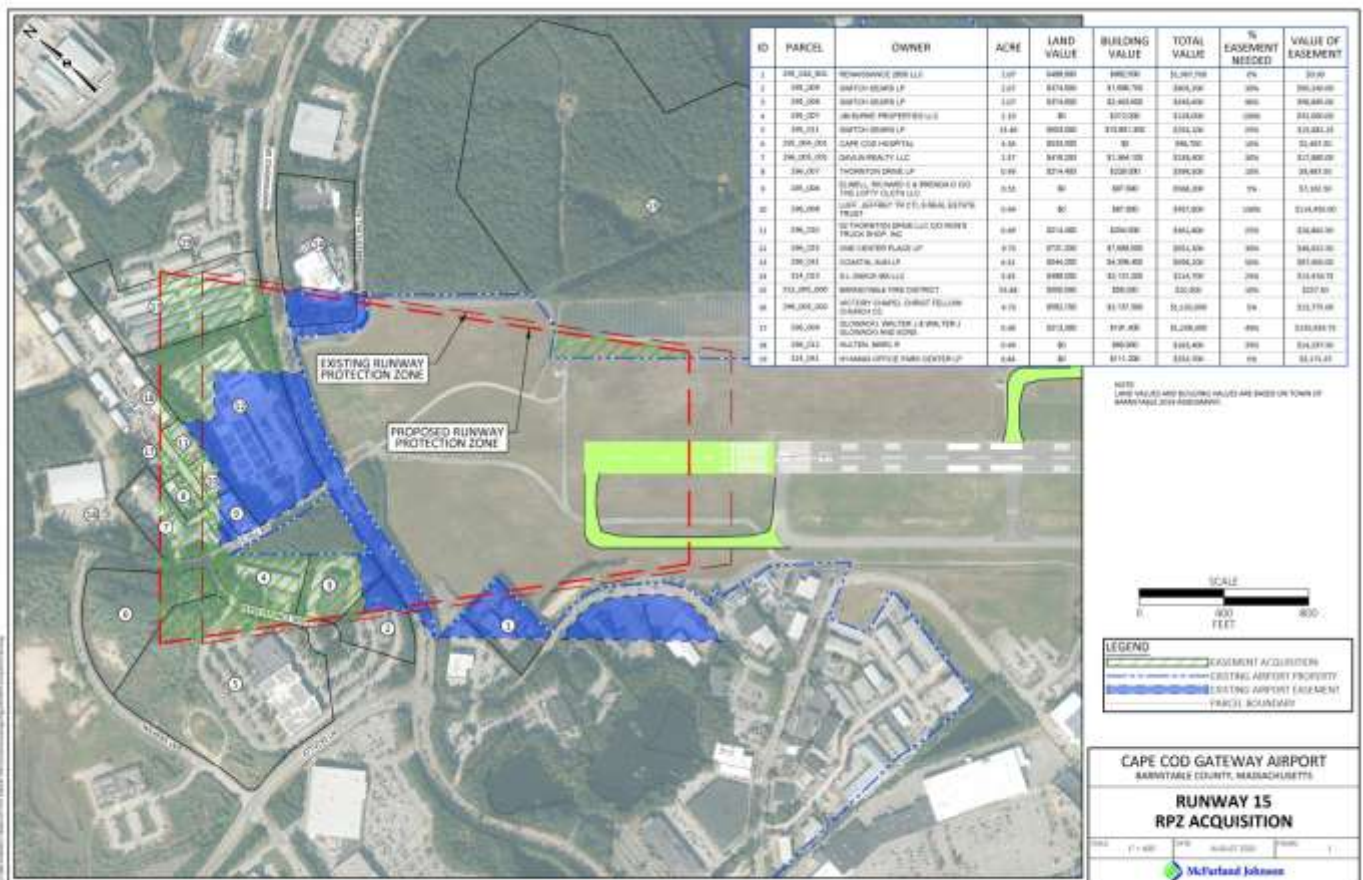


Exhibit A provides a graphic depiction of the elevations and dimensions of the easement.

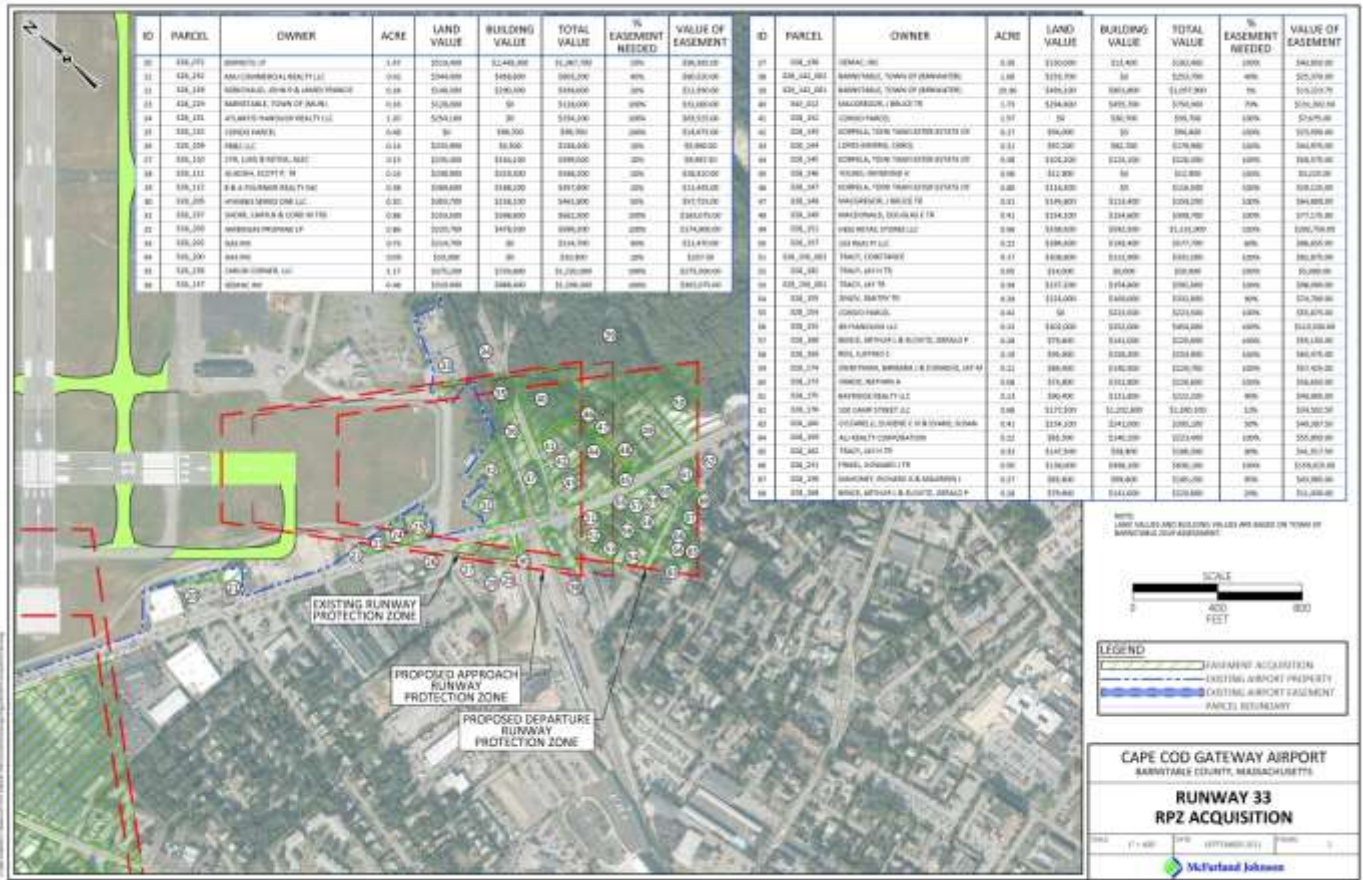


Exhibit B provides a graphic depiction of the elevations and dimensions of the easement.

Marina Enterprise Fund

PROJECT: MAR-24

DEPARTMENT PRIORITY: 3 of 3

Project Working Title: Bismore Park Bulkhead & Marina Improvements Project

Project Location: Hyannis Harbor adjacent to Ocean Street, Hyannis

Project Description: Construction of a new steel bulkhead along the Town-owned sections of Bismore Park Marina, associated bulkhead cap, pilings and docks, and repairs / modifications / improvements to all affected utilities and adjacent walkways, parking lots, and associated infrastructure. The project goals are to improve public safety and accessibility, enhance user experience, replace aging infrastructure, and increase resiliency.

Project Justification: Bismore Park Marina is located within Hyannis Harbor in the Town of Barnstable, MA. This facility is home to the Office of the Harbormaster and is essential to supporting the user needs of the local commercial fishing fleet, transient vessels, adjacent ferry operations to Nantucket and Martha’s Vineyard, local events, visitor attractions, and local commerce. Revenues from these various activities support the facility and generate revenues for the local economy. The bulkhead experienced a partial collapse in the 1990’s and repairs were made that are now approaching the end of their useful life.



Impact of Denial/Postponement: If the bulkhead is not replaced it could become compromised, resulting in a catastrophic failure that would disrupt business interests and tourist access at one of Barnstable’s busiest marinas. Obviously, such an outcome would be unacceptable.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$7,700,000
	Project Management	-	\$25,000
	Project Contingency	-	\$2,040,000
	All Other Cost	-	-
	Total Project Cost	-	\$9,765,000

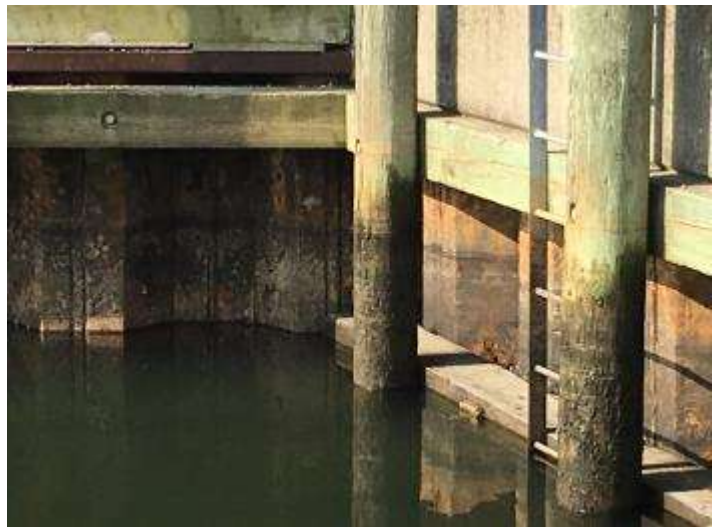
Basis for Cost Estimates: Consultant and DPW Engineering Department.

Project Estimated Completion Date: FY 2026		Design & Permit (months)	18	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2025	\$9,765,000	Bulkhead Construction			
2026	-	-			

Source of Funding: Marina Enterprise Fund Bond Issue and/or possible grant opportunities include Seaport Economic Council Infrastructure Grant, which the Town received a \$465,600 grant in 2021 for design and permitting of the project. This will make the project a strong candidate for construction grants (up to \$1M) through the Seaport Economic Council.

Potential increase in slips, specifically transient slips could result in increased revenue for the Marina Enterprise Fund.

Operating Budget Impact now or in future: In the short term a new bulkhead would require less maintenance.



Bismore Park Marina Bulkhead

Hyannis Youth & Community Center Enterprise Fund

PROJECT: HYCC-24

DEPARTMENT PRIORITY: 2 of 3

Project Working Title: HYCC Security System Upgrade

Project Location: 141 Bassett Ln Hyannis, MA 02601

Project Description: Physical and digital upgrades to the existing Paradox access control system.

Project Justification: Completed in 2009 the buildings security system is thirteen years old. Upgrades to the system are now needed. The existing access control system is currently managed in-house. Changes in personnel has made it difficult to maintain. Structures and grounds is centralizing access control of all buildings managed by the Department, this project will install panic alarms at various locations in the building. Upgrades to hardware and communication to an on-line control system are now required.

Impact of Denial/Postponement:



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$25,038	-
	Construction or Acquisition	\$208,656	-
	Project Management	\$30,000	-
	Project Contingency	\$20,865	-
	All Other Cost	\$500	-
	Total Project Cost	\$285,059	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2023 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$285,059	Design and Construction			

Source of Funding: Capital Trust Fund Bond Issue

Operating Budget Impact now or in future: None



Project Working Title: Hyannis Youth and Community Center Rink Slab - Design

Project Location: 141 Bassett Ln Hyannis, MA 02601

Project Description: The Hyannis Youth And Community Center is undergoing changes to its programming and utilization. As such it has been determined that the sand base rink could be better utilized if it had a concrete slab base. This concrete base would allow alternate uses of the rink by allowing additional sporting events currently not supported in the space even with the temporary floor installed. Volley ball, pickle ball, tennis, music, and other events could take place in a stadium setting.

Project Justification: Completed in 2009 this state of the art facility was projected to be self-funding. Recent research has shown a 35% to 45% decrease in interest in hockey among teenagers, and a 30% decrease in adults since 1990. This is partially attributed to the shift of competitive interests of Millennials, and partly to do with decreased physical activity associated with Covid. With hockey decreasing in popularity, and a decreasing demand for Ice time, the facility director is making programming changes to better utilize the facility. Additionally, differing depths of refrigeration piping along the existing sand bed have been creating ice making difficulties. Installation of a concrete slab in the Kennedy Rink will allow utilization of the space in a more dynamic way as well as improve the quality of ice.



Impact of Denial/Postponement:

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$195,976
Construction or Acquisition		-	\$2,,596,911
Project Management		\$30,000	-
Project Contingency		-	-
All Other Cost		\$30,000	-
Total Project Cost		\$255,976	\$2,596,911

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: FY 2027		Design & Permit (months)	24	Construction (months)	36
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$255,976	Design			
2025	\$2,595,911	Construction			

Source of Funding: Capital Trust Fund Bond Issue

Water Pollution Control Enterprise Fund

PROJECT: WPC-24

DEPARTMENT PRIORITY: 4 of 7

Project Working Title: Effluent Sand Bed Valve Rehabilitation

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project includes the design and construction of improvements to the effluent distribution valves at the Water Pollution Control Facility. This project will replace effluent distribution valves, motorized valve actuators, and the valve control panel.

Project Justification: The Barnstable Water Pollution Control Facility discharges highly treated effluent into 36 rapid infiltration sand beds. The beds are rotated frequently in order to prevent overgrowth and to allow for routine sand bed maintenance. There are twelve 24-inch valves used for distributing water around the sand bed network, and another sixty-three 6-inch valves used to distribute flow within the individual sand beds. Over the years, the majority of the 6-inch valves have failed and WPCD staff has used plugs to control flow within those beds. The larger valves are becoming increasingly difficult to operate and most of the motorized valve actuators have failed. This requires operators to enter confined spaces to manually open and close the valves, presenting a safety hazard to WPCD employees. The control panel for the valves has failed and is in need of replacement. If the valves are replaced and the automation is restored, the valves will be able to open and close automatically through computer programming. This will allow flow to be spread more uniformly across the entire network of sand beds, potentially reducing the effects of on-site groundwater mounding.



Impact of Denial/Postponement: If unfunded, the effluent distribution valves will continue to degrade to the point of failure. Costly emergency repairs will be necessary in order to repair valves as they fail. Flow will not be able to be distributed equally around the sand beds until repairs are made. Staff will continue to enter confined spaces to manually actuate the existing valves, leaving a safety hazard unaddressed.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$50,000
	Construction or Acquisition	-	\$300,000
	Project Management	-	\$20,000
	Project Contingency	-	\$30,000
	Total Project Cost	-	\$400,000

Basis for Cost Estimates: In House Cost estimate based on similar valve replacement projects.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2023 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$400,000	Evaluation, design, and construction of valve improvements			

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Proper control over effluent disposal will allow WPCD staff to rotate beds more frequently and more effectively. Frequent rotation of the sand beds may help reduce localized groundwater mounding issues during periods of high groundwater.



Valve Structure #6



Valve Structure #7

Project Working Title: Sewer System Rehabilitation

Project Location: Sewers in Hyannis and Barnstable Village

Project Description: The purpose of this project is to carry out sewer rehabilitation targeting areas within the sewer collection system that are in need of repair. Efforts may include pipe relining, pipe replacement, and manhole rehabilitation. Project areas to be addressed as part of this program include Barnstable Road and South Street.

Project Justification: The Town’s sewer collection system dates back to 1935 and is in need of targeted rehabilitation certain areas. As part of the Town’s infiltration and inflow analysis and subsequent sewer system evaluation survey (SSES) work, several pipe defects were located. These defects are currently being addressed as part of the first round of sewer system rehabilitation. Typical defects include cracks in pipes, manhole degradation, cross connections between storm water and sewer infrastructure, and other related issues. The repairs that are planned for the next phases of this program include improvements to Barnstable Road sewers which are planned to be carried out in conjunction with future water pipe rehabilitation work on the road. This will help to save on overall project cost and minimize disruption to residents and businesses in the area. Future repair efforts also include relining the sewers on South Street after capacity improvements are completed to shed flow from those sewers.



Impact of Denial/Postponement: If left unfunded, sewer repairs will be deferred until funding is made available. Sources of infiltration and inflow would remain in place, meaning that storm water will continue to find its way into the sewer system, taking up existing system capacity and creating operational issues during wet weather events.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$50,000
	Construction or Acquisition	-	\$725,000
	Project Management	-	\$50,000
	Project Contingency	-	\$50,000
	Total Project Cost	-	\$875,000

Basis for Cost Estimates: Engineers cost estimate.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2023 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2025	\$225,000	Rehabilitation of Barnstable Road Sewers			
2026	-	-			
2027	-	-			
2028	\$650,000	Reline South Street Sewers			

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Carrying out portions of this project in conjunction with planned water pipe rehabilitation efforts will save the Town money with overall project cost and will help minimize disruption to area residents and local businesses.

Project Working Title: MSB Generator Design and Construction

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: This project involves the design and construction of a second emergency backup generator at the Water Pollution Control Division’s “MSB” Switchgear.

Project Justification: A 2014 backup power evaluation recommended replacing the generator at switchgear MSA with a 750kw diesel powered generator and constructing a 450kw generator at switchgear MSB when future loads dictate. The MSA generator construction was completed in 2017. It is anticipated that the WPCF will be taking on additional flows and constructing process improvements as the Town executes its Comprehensive Wastewater Management Plan, increasing electrical demand at the facility. In order to provide enough backup power to energize the treatment plant in the event of a power outage, an additional generator will be necessary. This generator will also provide redundancy in the event that the MSA generator fails.



Impact of Denial/Postponement: Denial of this project could result in a lack of adequate backup power for the wastewater treatment plant under future conditions. In the event of a MSA generator failure, portable backup generators can be used to power up small pieces of equipment such as the effluent pumps. This would allow the WPCD to continue to move water through the plant, however it would remain mostly untreated and this would likely result in effluent violations and a notice of non-compliance from the DEP.

Project Cost Estimates:		FY 2023	Future FY
	Design & Permitting	-	\$65,000
	Construction or Acquisition	-	\$650,000
	Project Management	-	\$65,000
	Project Contingency	-	\$70,000
	Total Project Cost	-	\$850,000

Basis for Cost Estimates: Engineering Cost Estimate

Project Estimated Completion Date: FY 2026		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2026	-	-			
2027	\$750,000	MSB Generator Design and Construction			
2028	-	-			

Source of Funding: Enterprise Fund Reserves. Construction may be eligible for State Revolving Fund (SRF) funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: This project will add a layer of resiliency to the Town’s wastewater treatment process and allow for process upgrades and increases in flow.

Project Working Title: Tractor 259 Replacement

Project Location: 617 Bearses Way Hyannis, MA 02601

Project Description: Replacement of Tractor 259

Project Justification: Tractor 259 was purchased in 2007 and is approaching the end of its useful life. The tractor is used to maintain the WPCF’s rapid infiltration basins, to move heavy equipment around the facility, to clear snow during major storm events, and other maintenance activities. This tractor will be 19 years old at the time of replacement. Based on the condition of the tractor and its usage, the DPW Fleet Maintenance has recommended this tractor be replaced in FY27.

Impact of Denial/Postponement: Tractor 259 will be 19 years old at the time of replacement. It is likely that the tractor could fail in the future if it is not replaced. This would leave WPCD staff without adequate machinery to maintain the facility.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$100,000
	Project Management	-	-
	Project Contingency	-	-
	Total Project Cost	-	\$100,000

Basis for Cost Estimates: Engineering Cost Estimate

Project Estimated Completion Date: FY 2026	Design & Permit (months)	-	Construction (months)	3
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Cost/Description FY 2024 and Follow-On Years:

Fiscal Year	Cost	Project Description/Components
2026	-	-
2027	\$100,000	Tractor Replacement
2028	-	-

Source of Funding: Enterprise Fund Reserves. Construction may be eligible for State Revolving Fund (SRF) funding and funding from the Cape Cod and Islands Water Protection Fund.

Operating Budget Impact now or in future: Less maintenance to the tractor can be expected during the first five to six years of service.

Water Supply Enterprise Fund

PROJECT: WS-24

DEPARTMENT PRIORITY: 7 of 8

Project Working Title: Straightway Filtration Plant Construction.

Project Location: Straightway Treatment Plant, 217 Straightway, Hyannis.

Project Description: Construction of the new filtration facility at the Straightway location.

Project Justification: This CIP is the next phase regarding the implementation of the recommendations put forward in the new sources alternatives evaluation report, produced by Weston & Sampson Engineers in March 2019. One of the recommendations was to provide for additional treatment of the Straightway wells to improve water quality. This option was explored in more detail in a report by Kleinfelder; Evaluation of Treatment Options for Straightway and Hyannis Port Facilities dated August 2020. Currently, Kleinfelder is wrapping-up the most current version of the pilot testing report. This CIP will fund the construction of the new filtration facility at the Straightway location.

Impact of Denial/Postponement: Water supply capacity and quality is severely curtailed by not treating these wells for 1,4 Dioxane and Iron & manganese removal. The interim carbon filters are outside and can only operate in the summer season, which provides a strain on water supply operations.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$19,490,000
	Project Contingency	-	\$4,000,000
	Project Management	-	\$1,500,000
	All Other Costs	-	\$10,000
	Total Project Cost	-	\$25,000,000

Basis for Cost Estimates: The Kleinfelder memorandum: "Evaluation of a single plant option and hybrid phased option"

Project Estimated Completion Date: FY 2028		Design & Permit (months)	-	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$25,000,000	Construction			
2026	-	-			

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Estimated O&M cost, first year: \$781,000. Future materials like activated carbon, treatment chemicals will need to be purchased.

Project Working Title: Airport & Mary Dunn 1 Filtration Plant Design

Project Location: Mary Dunn Water Treatment Plant, 656 Mary Dunn Road, Barnstable 02601

Project Description: This CIP will fund the preliminary and final design of the new filtration facility at the Mary Dunn location.

Project Justification: This CIP is the next phase regarding the implementation of the recommendations put forward in the new sources alternatives evaluation report, produced by Weston & Sampson Engineers in March 2019. One of the recommendations was to provide for additional treatment of the Airport and Mary Dunn wells to improve water quality. This option was explored in more detail in a report by Tata & Howard; Preliminary Evaluation of Treatment Options for the Mary Dunn Wells and Airport Well dated August 2020. Currently, Kleinfelder is wrapping-up the most current phase of the project, pilot testing of the recommended water treatment techniques and finalizing the pilot testing report. This CIP will fund the preliminary and final design of a new filtration facility at the Mary Dunn location.



Impact of Denial/Postponement: Water supply capacity and quality is severely curtailed by not treating these wells for 1,4 Dioxane and Iron & manganese removal. The interim carbon filters are outside and can only operate in the summer season, which provides a strain on water supply operations.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$1,000,000
	Construction or Acquisition	-	\$25,000,000
	Total Project Cost	-	\$26,000,000

Basis for Cost Estimates: The Tata & Howard report: “Preliminary Evaluation of Treatment Options for the Mary Dunn Wells and Airport Well”.

Project Estimated Completion Date: 2029		Design & Permit (months)	36	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$1,000,000	Design			
2026	-	-			
2027	\$25,000,000	Construction			

Source of Funding: Enterprise Fund Bond Issue

Operating Budget Impact now or in future: Future materials like activated carbon, treatment chemicals will need to be purchased. Estimated O&M cost, first year: \$118,500

Solid Waste Enterprise Fund

PROJECT: SW-24

DEPARTMENT PRIORITY: 3 of 4

Project Working Title: Compactor Unit Replacement

Project Location: Transfer Station & Recycling Center 45 Flint Street Marstons Mills MA 02648

Project Description: Replacement of (2) Compactor Units for Transfer Station

Project Justification: The compactor units are a vital piece of equipment for the collection of trash and recyclables. These units wear down over time and need to be replaced. We have performed repairs on the units in our trash area to extend their useful life. The units in the recycle area are closing in on their useful life and will need replacement.

Impact of Denial/Postponement: Denial or postponement of this request could severely impact efficient operations of the Transfer Station & Recycling Center. The compactors were from McClain, who is now out of business. This will make obtaining replacement parts difficult if not impossible. Maintenance of these systems will become expensive because parts will need to be custom made to fit obsolete machinery. Failure of this equipment severely impacts the ability to accept and transfer sticker holders' household trash and the efficiency of our operations.



Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$675,000
	Total Project Cost	-	\$675,000

Basis for Cost Estimates: Quotes and conversations with vendor on State contractor list.

Project Estimated Completion Date: FY 2025		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$225,000	Replacement of Compactor Units (2 Units)			
2026	\$150,000	Replacement of Compactor Units (1 Unit)			
2027	\$150,000	Replacement of Compactor Units (1 Unit)			
2028	\$150,000	Replacement of Compactor Units (1 Unit)			

Source of Funding: Enterprise Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: The project can help with improved efficiencies and reduce the possibility of closure due to equipment failure.



Compactor Units at Transfer Station

Project Working Title: Solid Waste Facility Improvements

Project Location: Transfer Station & Recycling Center 45 Flint Street Marstons Mills, MA 02648

Project Description: The work to be done under this project consists of upgrades to the Solid Waste Facility and recycling center including installation of a new compaction system, installation of site sewer and drainage, associated pavement and concrete demolition, site preparation with new pavement and fencing, concrete work, and electrical work. This year’s request is to finalize the design of the facility and secure permits.

Project Justification: The Solid Waste Facility is a highly utilized facility drawing high traffic volumes from all seven Villages in Barnstable. The existing location of the weigh scale, layout of the various sheds and buildings, drop off zones and traffic patterns throughout the complex make usage of the facility inefficient for both customers and staff. Paved areas within the facility have deteriorated and need attention and existing drainage systems are not sufficient to capture stormwater from substantial rain events. All of these concerns result in reduced safety for everyone using and traveling through the facility.

Impact of Denial/Postponement: The Solid Waste Facility will continue to operate with an inefficient layout and the infrastructure will continue to degrade. Similarly, the Town will be in better position to seek potential grant opportunities for construction of the project once the project is designed and permitted.



Project Cost Estimates:		FY 2024	Future FY
	Design	\$50,000	-
	Construction or Acquisition	-	\$2,680,000
	Total Project Cost	\$50,000	\$2,680,000

Basis for Cost Estimates: Consultant Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$50,000	Design			
2025	\$2,680,000	Construction			

Source of Funding: Project will improve efficiency of the facility and reduce the need to make frequent spot repairs to the parking lot.

Operating Budget Impact now or in future: None

General Fund Projects

Marine & Environmental Affairs General Fund Projects

PROJECT: MEA-24

DEPARTMENT PRIORITY: 2 of 16

Project Working Title: Marine & Environmental Affairs Storage Facility

Project Location: 1189 Phinney’s Lane, Centerville, MA 02632

Project Description: The project consists of funding for the design of a 2,500 square foot storage addition to the existing Marine Environmental Affairs building and associated site work upgrades. FY24 appropriation will fund design of the project.

Project Justification: The Marine and Environmental Affairs building currently do not have adequate room to accommodate MEA’s needed equipment. Because of various reorganizations and repositioning of staffing over the years, MEA has had to create office space in the existing facility garage area, which reduced working area and storage space for vehicles and boats. This project will provide the needed space

Impact of Denial/Postponement: The Town’s boats and other equipment being stored outside will continue to deteriorate at an undesirable rate and, as such, their useful life shortened.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$110,000	-
	Construction or Acquisition	-	\$1,100,000
	Project Management	\$40,000	\$46,000
	Project Contingency	-	\$110,000
	Total Project Cost	\$150,000	\$1,256,000

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	10	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$150,000	Design & Project Management			
2025	\$1,256,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: Routine Maintenance



Marine & Environmental Affairs Storage Facility Location

Project Working Title: MEA Parking Lot Improvements - Construction

Project Location: 1189 Phinney’s Lane, Centerville, MA 02632

Project Description: Reclaim/regrade parking lot, provide new asphalt paving in existing gravel areas, apply new line striping for formalized, delineated parking, ADA improvements and drainage improvements. In addition, the project will include some landscape renovations at the entrance and along site fencing for screening.

Project Justification: This parking lot is the hub of activity for employee and visitors parking at the MEA main office. Staff and working vehicles use the lot extensively. There is limited delineated parking as most of the parking is on a gravel area that was installed several years ago to expand the lot. The existing paved sections of the parking lot have deteriorated with many areas of spider cracking, which indicates signs of subgrade issues, and irregularities in need of repairs. The recently completed ADA Self Evaluation and Transition Plan identifies some site related ADA deficiencies that will be addressed as part of the project.



Impact of Denial/Postponement: Failure to repair the parking lot will result in further damage to the surface from vehicle and snow removal activities. The parking lot will become difficult to use for critical functions and become a safety hazard for vehicles and pedestrians..

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	\$225,000	-
	Project Contingency	40,000	-
	Project Management	\$10,000	-
	All Other Cost	-	-
	Total Project Cost	\$275,000	-

Basis for Cost Estimates: DPW Engineering Dept.

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$275,000	Construction			
2025	-	-			
2026	-	-			
2027	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: None



Project Working Title: Stormwater Improvements at Shellfish Sites

Project Location: 1189 Phinney's Lane, Centerville, MA 02632

Project Description: Various Locations

Project Justification: The sites included in this project have been identified as discharging directly to shellfish habitat, potentially negatively impacting these habitats. This project is listed on the Cape Cod Water Resources Restoration Project Priorities List and as such is in position for grant funding from NRCS. If awarded an NRCS grant, the Town is responsible for the permitting, design, and 25% of the construction costs. This request has been structured assuming those expenses.

Impact of Denial/Postponement: Stormwater would continue to discharge to shellfish habitats. The Town would not have the matching funds necessary to be eligible for an NRCS grant for the project.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$350,000
Construction or Acquisition		\$520,000	-
Project Management		\$60,000	
Project Management		-	-
All Other Cost		-	-
Total Project Cost		\$930,000	-

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: 2027		Design & Permit (months)	12	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$930,000	Design / Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. The project is listed on the Cape Cod Water Resources Restoration Project Priorities List and as such is in position for grant funding from NRCS.

Operating Budget Impact now or in future: Routine maintenance is required for all stormwater systems.

Project Working Title: Bay Shore Road Boat Ramp

Project Location: Bay Shore Road, Hyannis MA 02601

Project Description: The existing boat ramp will be replaced and the adjacent parking area will be reconstructed with improved stormwater systems. Engineering design plans and environmental permitting will be completed prior to a future request for construction.

Project Justification: The Bay Shore Road boat ramp and associated parking area serve important mooring fields within Hyannis Harbor and are heavily used by the boating population in the neighborhood. The existing asphalt ramp is deteriorated and needs replacement. Stormwater facilities will be improved as determined to be necessary.

Impact of Denial/Postponement: If repairs are not made the ramp will continue to deteriorate and will eventually become unsafe and unusable. A ramp that is poor condition poses a safety hazard and could prove to be a liability should an accident occur due to the condition of the ramp.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$165,000	-
	Construction or Acquisition	-	\$484,000
	Project Management	\$10,000	\$15,000
	Project Contingency	\$15,000	\$121,000
	Total Project Cost	\$190,000	\$620,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2026		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$190,000	Design & Permitting			
2025	\$620,000	Construction & Construction Management			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, but grant opportunities will be pursued.

Operating Budget Impact now or in future: Maintenance costs should be reduced in the short term.



Bay Shore Road Boat Ramp

Project Working Title: Channel Dredging Program

Project Location: Various Town-owned navigational channels

Project Description: This project involves the ongoing design, permitting, and maintenance dredging of Town-owned navigational channels.

Project Justification: The Town completed a Comprehensive Dredge Plan in 2017 based on surveyed conditions and historic dredging frequencies. The plan identifies dredge needs in multiple channels during this five-year CIP. These channels provide important navigational access for significant numbers of recreational and commercial boats, as well as regulatory and emergency response vessels. The failure to maintain these channels can result in very dangerous conditions, which can threaten the safety of our residents and risk serious damage to boats, in addition to impairing commercial and recreational activities.



Impact of Denial/Postponement: The channels will continue to shoal and eventually completely close off access for recreational and commercial boating.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$500,000
	Construction or Acquisition	-	\$8,000,000
	Project Management	-	\$250,000
	Project Contingency	-	\$1,110,000
	Total Project Cost	-	\$9,860,000

Basis for Cost Estimates: Comprehensive Dredge Plan and Department Public Works Engineering

Project Estimated Completion Date: N/A		Design & Permit (months)	-	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$2,675,000	Blish Point Boat Ramp (\$450,000), Barnstable Harbor Mid-Entrance Channel (\$750,000), Bismore Park Pier Basin (\$625,000), Gateway Marina Channel (\$750,000), Project Management/Surveys/Permitting/Contingency (\$100,000)			
2026	\$2,125,000	West Bay Inner Entrance Channel (\$1,750,000), East Bay Entrance Channel (\$150,000), Centerville River Channel – Lower Reach (\$125,000), Project Management/Surveys/Permitting/Contingency (\$100,000)			
2027	\$1,750,000	Barnstable Harbor Outer Entrance Channel (\$600,000), Cotuit Bay Embayment Channels - 7', 9', & 11' (\$950,000), West Bay Outer Entrance Channel (\$185,000), West Bay Spur Channel (\$100,000), Project Management/Surveys/Permitting/Contingency (\$100,000)			
2028	\$2,600,000	East Bay Outer Embayment Channel (\$1,350,000), East Bay Inner Embayment Channel (\$1,150,000), Project Management/Surveys/Permitting/Contingency (\$100,000)			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and possibly Massachusetts Dredging Grants

Operating Budget Impact now or in future: The project is routine maintenance of the Town's navigational channels.



West Bay Harbor



Cotuit Bay Harbor



Barnstable Harbor



Hyannis/Bismore Harbor



Project Working Title: Evaluation of Little River Fish Passage Restoration

Project Location: 5 Route 149, Marstons Mills, MA

Project Description: This project will fund the construction for rehabilitating or reconstructing the Mill Pond Fish Ladder. The focus of the project will be to develop and implement a fish ladder that meets modern day design standards.

Project Justification: The fish ladder at this location is outdated, not meeting modern day fish passage standards, and currently impedes fish passage into the Marstons Mills River. This project will provide the designs and acquire the permits necessary to poise the Town to pursue grants potentially available for this work.

Impact of Denial/Postponement: Without funding, the Town may lose an opportunity to improve this ladder with federal funding and the existing ladder will continue to degrade.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$2,083,000
	Project Management	-	-
	Project Contingency	-	\$100,000
	Total Project Cost	-	\$2,183,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	-	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$2,183,000	Design & Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. The project is listed on the Cape Cod Water Resources Restoration Project Priorities List and as such is in position for grant funding from NRCS.

Operating Budget Impact now or in future: This project will reduce the required maintenance by improving the fish run.



Mill Pond Dam and Fish Ladder



Stone damage and missing stones around the water control structure.
Taken on 4/28/2021



Water flow from pond under the sidewalk caused undermining.
Taken on 4/28/2021



Worn steps and pools along fish ladder.

Taken on 4/28/2021

Project Working Title: Hyannis Breakwater Evaluation & Preliminary Design

Project Location: Hyannis Harbor MA, 02601

Project Description: Evaluation, design and permitting of improvements to the Hyannis Harbor Breakwater.

Project Justification: Support stones have been displaced along the breakwater resulting in gaps in the structure therefore reducing its effectiveness of protecting the harbor. The poor condition of the breakwater is a safety hazard for navigation, and the public who walk upon it. Harbormaster staff, Fire Dept., and other Public Officials have been called to rescue people trapped on the breakwater. In addition, a private study commissioned by residents of Hyannisport has indicated that the poor condition of the breakwater may be contributing to accretion of adjacent mooring fields and beach loss of residential properties. Portions of the existing breakwater are Federally owned, and this portion was recently repaired by Army Corps of Engineers (ACOE) within the next year. This project will fund design of repairs necessary for the State/Town owned portion of the breakwater.



Impact of Denial/Postponement: Postponing study and analysis of the breakwater will allow more deterioration of the breakwater structure. Future storms will reduce the function of the breakwater allowing potential shoreline damage. The safety of the public walking on the breakwater will not be addressed, as the Towns portion of the breakwater is accessible from land.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$235,000
	Construction or Acquisition	-	TBD
	Total Project Cost	-	TBD

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2027		Design & Permit (months)	18	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$235,000	Design & Permitting			
2026	TBD	Final Design & Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issues.

Operating Budget Impact now or in future: N/A



Hyannis Breakwater

Project Working Title: West Bay Breakwater Improvements

Project Location: West Bay, Osterville

Project Description: A report prepared by Ocean & Coastal Consultants published in March 2014 recommended repairs to reset the armor stones currently displaced and recommended a second layer of armor stones designed to accommodate the 100-year storm be integrated into the existing stone to increase the thickness and “soften” the side slopes of the breakwaters.

Project Justification: Numerous storms, heavy seas and constant wave action have damaged the breakwaters that protect both sides of the channel entering West Bay from Nantucket Sound. The integrity of the structures is now compromised; the breakwaters have lost stones and have settled. The breakwaters provide for safe navigation in the area and prevent shoaling of the entrance channel.

Impact of Denial/Postponement: If not remedied, the structures will continue to deteriorate and the shoaling in the inlet will worsen as a result and the channel become non-navigable. Water quality in the bay could become compromised.



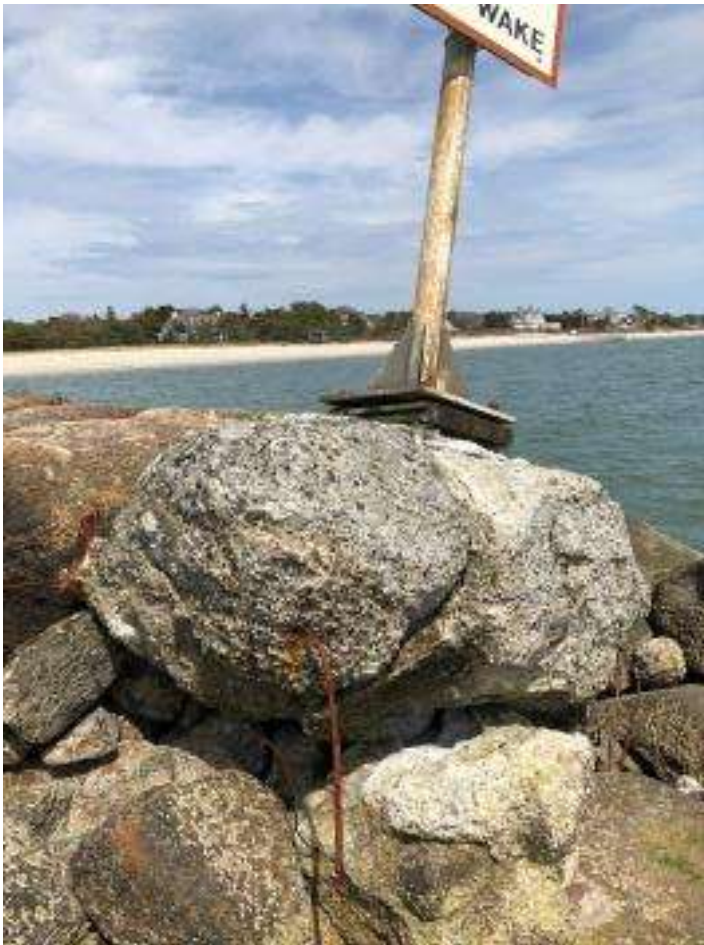
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$250,000
	Construction or Acquisition	-	\$4,900,000
	Project Management	-	-
	Project Contingency	-	-
	Total Project Cost	-	\$5,150,000

Basis for Cost Estimates: Consultant and Department of Public Works Engineering

Project Estimated Completion Date: 2028		Design & Permit (months)	18	Construction (months)	4
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2025	\$250,000	Design & Permitting of Breakwater Repairs			
2026	-	-			
2027	\$4,900,000	Construction of Breakwater Repairs			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: N/A



West Bay Breakwaters

Project Working Title: Blish Point Boat Ramp Improvements

Project Location: 269 Millway, Barnstable, MA 02630

Project Description: The project scope is anticipated to include demolishing the existing boat ramp and constructing a new boat ramp; constructing a stormwater management system; paving the existing gravel parking lot; repaving the access drives; installing guardrail along the beach frontage; demolishing the existing timber stairs and constructing an accessible ramp to the beach.

Project Justification: The existing boat ramp is deteriorated, does not extend far enough at the bottom end, and lacks V-grooves for proper traction; in addition, the Town is obligated to maintain the boat ramp under an agreement with the Commonwealth. Adding a stormwater management system and paving the gravel parking area will better protect surface water quality and groundwater quality, as well as improve the user experience. Adding guardrails along the beach frontage will improve public safety and help to reduce parking in unauthorized areas. Replacing the stairs with an accessible ramp to the beach is necessary to comply with federal and state requirements, and with the Town’s universal accessibility objectives; it will also improve public safety and the user experience. Further, it is anticipated that these improvements could reduce the frequency of required dredging of the boat ramp channel, which is currently required every 1-3 years.



Impact of Denial/Postponement: If the project is not funded in the near term, there is an increased risk the boat ramp may become unusable, in which case many users, particularly the recreational saltwater fishing community, would have to use alternate landings which may not be as convenient. In addition, closure of the boat ramp (if it came to that) may constitute a breach of contract with the Commonwealth; and failure to maintain the facilities might constitute a waterways license violation.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$165,000	-
	Construction or Acquisition	-	\$885,000
	Project Management	\$20,000	-
	Project Contingency	\$33,000	177,000
	Total Project Cost	\$218,000	\$1,062,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$218,000	Design			
2025	1,062,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: N/A



Project Working Title: Blish Point Construction for Long Term Solution

Project Location: Millway Beach, 399 Millway, Barnstable, MA 02630

Project Description: Final design of a long term solution to stabilize the coastal bank with stone revetment, if approved by regulators, or other permitable alternative.

Project Justification: The unarmored coastal bank has experienced severe erosion on about a 2-year frequency in recent years due to severe storms, extreme high tides, and storm surges. This may be contributing to the recurring need to dredge accumulated sand/sediment from the Barnstable Harbor entrance channel with regular frequency. A study by Woods Hole Group recommends a stone revetment as the best engineering solution. Over a longer term life cycle, a hardened revetment (if approved by regulators), similar to the one on the private side of the same beach is anticipated to be more cost effective and has been a proven approach for protecting Town assets at the Millway Beach parking lot.



Impact of Denial/Postponement: The cycle of erosion, sand replacement, or erosion will continue, and is expected to worsen due to the predictions of more frequent severe storms and sea level rise. This is costly and eventually the erosion will be severe enough to damage or destroy the observation deck, bathhouse, parking lots, roads and release fine grained materials from prior dredging effort into the harbor.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$75,000
	Construction or Acquisition	-	\$2,000,000
	Total Project Cost	-	\$2,075,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2026		Design & Permit (months)	18	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$75,000	Final Design			
2026	\$2,000,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Also, grant opportunities to be pursued include Municipal Vulnerability Preparedness (MVP) and Coastal Zone Management (CZM).

Operating Budget Impact now or in future: TBD based on technology employed.



Millway Beach

Community Services General Fund Projects

PROJECT: CSD-24

DEPARTMENT PRIORITY: 2 of 14

Project Working Title: Adult Community Center Master Plan Development

Project Location: 825 Falmouth Rd Hyannis, MA 02601

Project Description: This project will fund development of a master plan for the Barnstable Adult Community Center grounds. Possible improvements to the site may include senior housing development, pickle ball court location, outdoor exercise stations, expanded outdoor recreational space, lawn activity areas, and develop an accessible path and viewing platform at Dunns Pond. Other development options will be discussed and reviewed. Any remaining design funds would be used towards the improvements.

Project Justification: The Barnstable Adult Community Center is a heavily used facility that provides services to a large number of citizens. The center continues to receive requests for additional services that the facility currently does not provide. The Center is striving to meet the needs of its growing constituents.



Impact of Denial/Postponement: The Adult Community Center property will continue to be underutilized

A		FY 2024	Future FY
	Design & Permitting	\$93,500	-
	Construction or Acquisition	-	-
	Project Management	\$35,000	-
	Total Project Cost	\$128,500	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	5	Construction (months)	TBD
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$128,500	Study and Schematic Design			
2025	TBD	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Could be eligible for Community Preservation Funding as recreation use.

Operating Budget Impact now or in future: Future routine maintenance will be required.



Adult Community Center

Project Working Title: Automatic Beach Gate Project

Project Location: Kalmus Beach, Covell’s Beach, Craigville Beach, Hathaway’s Pond

Project Description: Beach access for citizens of Barnstable is a priority with the Recreation Department. Currently manual gates exist at several Town Beaches. This project replaces manual gates with automatic gates which will operate during beach hours without an attendant. Beaches to receive automatic gates under this proposal include: Kalmus Beach, Covell;s Beach, Carigville Beach, and Hathaway’s Pond.

Project Justification: Currently access to beaches is manually controlled. An attendant needs to show up at each beach location and unlock the gate. The project will allow automatic operation.

Impact of Denial/Postponement:

		FY 2024	Future FY
	Design & Permitting	\$15,397	-
	Construction or Acquisition	\$153,972	-
	Construction Contingency	\$15,397	-
	Project Management	\$20,000	-
	Total Project Cost	\$207,266	-

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	8	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$207,266	Design & Construction			
2025	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Future routine maintenance will be required.



Project Working Title: Salt Water Beach House Improvements – Evaluation and Preliminary Design

Project Location: Dowses, Sea Street, Kalmus, Covells, Loops Beaches



Project Description: This project will fund evaluation, design, and improvements to the Town’s salt-water beach houses. This multi-year project is a continuation of a beach program to revitalize the town’s salt-water beach facilities. FY23 funding for architectural and engineering services finalizes scope and analysis of five beach facility locations.

Project Justification: The Town’s Salt Water Beach Houses have been patched, repaired, and painted. Heavier renovations are now necessary. The beach houses are in need of component improvements for accessibility, plumbing, electrical, ventilation, and structural. Interior and exterior conditions will be evaluated and improved. Improvements will address safety related concerns. It is expected that in some cases the recommendation may require demolish and replacement.

Impact of Denial/Postponement: Continued deferred maintenance of these facilities will contribute to their deterioration. Replacement of worn facilities with new ones will insure the high standard of recreational use in our town.

Project Cost Estimates:	FY 2024	Future FY
Design & Permitting	\$165,000	\$587,622
Construction or Acquisition	-	\$5,876,222
Project Management	\$40,000	\$293,811
Project Contingency	\$30,000	\$53,422
All Other Cost	\$30,000	\$117,524
Total Project Cost	\$235,000	\$7,462,803

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
FY 2024	\$235,000	Evaluation & Design			
FY 2025	\$2,030,505	Dowses Beach – New Bathhouse			
FY 2026	\$2,451,309	Sea Street Beach – New Bathhouse			
FY 2027	\$2,384,854	Covell’s Beach – New Bathhouse			
FY 2028	\$596,135	Loops Beach – New Bathhouse			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: Reduced routine maintenance cost.



Beach House Facilities

Project Working Title: Veterans Park Improvements – Parking Improvements

Project Location: 480 Ocean St, Hyannis, MA 02601

Project Description: GPI landscape architects spent a year working with the community and town officials to develop schematic designs to improve Veterans Park. Recommended improvements included parking and traffic flow pattern changes, the creation and organization of memorial spaces, concession, seating, and performance spaces, protection of the wooded picnic areas, boardwalk, and replacement of bathhouses, creation of changing rooms, and expansion of lifeguard facilities. The project has been broken into four phases of renovation consisting of parking improvements, bathhouse replacement, terrace installation, and boardwalk construction between the beach and parking lot. FY24 construction will include alterations to traffic flow, creation of a new parking area, and improvements to the existing parking lots.



Project Justification: Veterans Park serves as a picnic area for beachgoers, a playground for children, and as a memorial area for reverence and reflection. The Town of Barnstable owns and operates the park and recognizes that a variety of capital improvements and upgrades are required. Significant issues and design elements that require attention include, pedestrian / automobile conflicts, clarification/separation of uses, pedestrian circulation, safe drop-off areas, and emergency / maintenance access and amenity enhancements. The existing toilet facilities are out dated and are in need of replacement.

Impact of Denial/Postponement: The park will continue to operate in its existing state. Facilities will continue to age and not properly serve the public.

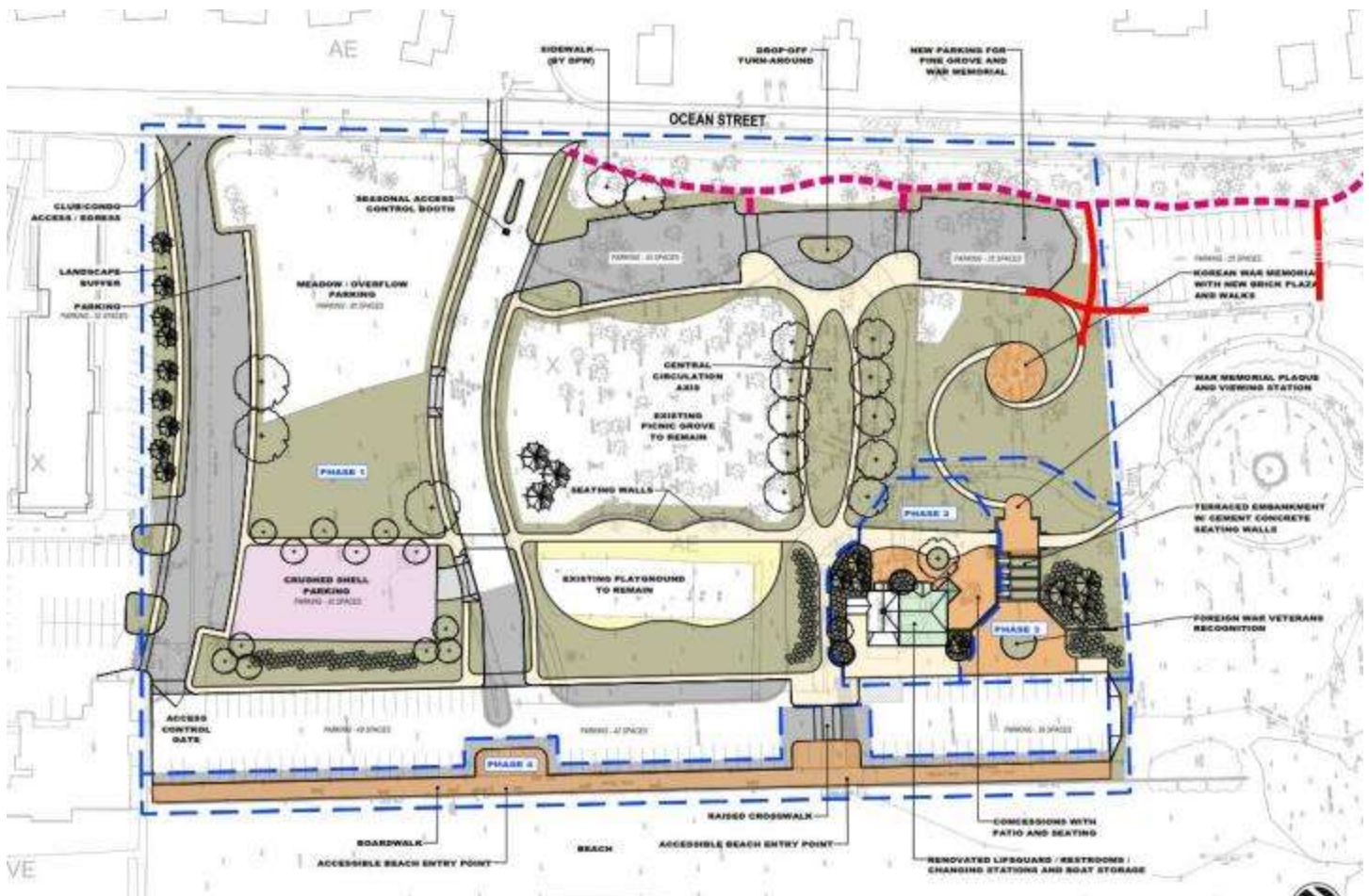
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$198,186	\$549,266
	Construction or Acquisition	\$1,981,861	\$5,492,663
	Project Management	\$59,456	\$183,315
	Project Contingency	\$198,186	\$549,266
	All Other Cost	\$50,000	\$50,000
	Total Project Cost	\$2,487,689	\$6,824,510

Basis for Cost Estimates: Consulting Architect and in-house estimate

Project Estimated Completion Date: FY 2027		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$2,487,689	Parking Improvements			
2025	\$3,839,148	Bathhouse Improvements			
2026	\$898,640	Terrace & Memorial Improvements			
2027	\$2,086,722	Boardwalk Design And Installation			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, however, construction is eligible for Community Preservation Funding.

Operating Budget Impact now or in future: Future routine maintenance will be required.



Veterans Park and Schematics

Project Working Title: Hamblin Pond Bathhouse and Site Improvements

Project Location: 415 Route 149, Marstons Mills, MA 02648

Project Description: This project revitalizes Habmlin Pond Park. FY23 funding allows for the design and permitting for the park. The scope of work will include but may not be limited to: (a) demolish the existing bathhouse and construct a new, larger bathhouse which meets current building code and accessibility requirements and recreational programming needs; (b) install a new pavilion with outdoor showers, picnic tables, benches, landscaping, and associated amenities; (c) restore beach frontage along the entire shoreline of the property and improve the beach elevation and width; (d) reconfigure and pave the parking area, constructing accessible walkway(s) to the beach and picnic areas (e) Repave the access drive, installing a new gate, improving drainage, storm water management and erosion controls, and associated infrastructure improvements.



Project Justification: A comparison of historical and current aerial photos shows that the beach at Hamblin Pond is less than half the size it was 50 years ago due to encroaching vegetation. The increasing frequency of high intensity rain storms in recent years has caused substantial erosion on the site, creating hazardous ruts, the need for substantially more maintenance, and potential impacts to natural resources. The bathhouse is outdated and does not meet current standards or the needs of the recreation department. The site lacks accessible facilities, lacks clear delineation of areas where vehicles are off-limits, and lacks additional amenities beachgoers expect to have. Picnic areas are unorganized with pitched tables. The project will address these and other deficiencies to improve public safety, access, and enjoyment of this resident-only freshwater beach.

Impact of Denial/Postponement: The condition of the property will continue to deteriorate, resulting in escalating maintenance costs, reduced utility, and lower public satisfaction.

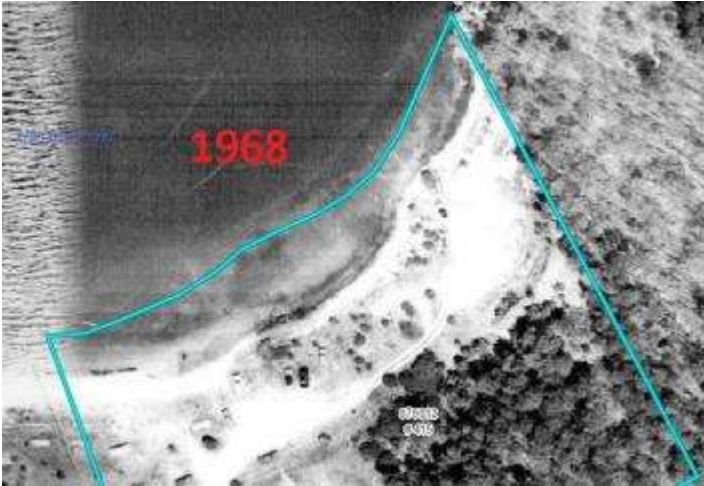
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$210,000	-
	Construction or Acquisition	-	\$1,320,000
	Project Management	\$60,000	\$60,000
	Project Contingency	\$45,000	\$250,000
	Total Project Cost	\$315,000	\$1,630,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2024		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$315,000	Design & Permitting			
2025	\$1,630,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: There is currently an annual effort to repair eroded grading and water infiltration into the pond.



Hamblin Pond Bathhouse and Site

Project Working Title: Hathaway's Pond Bathhouse and Site Improvements - Construction

Project Location: 1431 Phinney's Lane, Barnstable Village

Project Description: This project revitalizes Hathaway's Pond Park. Improvements will include: (a) Demolition of the old bathhouse and construction of a new one in a new larger bathhouse that meets current building code and accessibility standard, and addresses expanding recreational programming needs; (b) installation of a new pavilion with outdoor showers, picnic tables, benches, landscaping, and associated amenities; (c) restoration of beach frontage along the entire shoreline of the property and improving the beach elevation and width; (d) reconfiguration of the parking lot(s), constructing accessible walkway(s) to the beach, repaving the access drive, installing a new gate, improving drainage, stormwater management and erosion controls, and associated infrastructure improvements. (e) Design and construction of a new playground for two age groups (2 to 5 years) and (5 to 12 years). Design funding was appropriated in FY23. Preliminary design is being developed.

Project Justification: Park, bathhouse, and amenities are aged and in an accelerated state of decay. Uncontrolled storm water runs from the deteriorated parking areas directly into the pond. Large erosion ditches have formed which exasperate erosion of the beach into the pond. The parking lots consist of broken aged pavement and stone which has settled into the soil. The increasing frequency of high intensity rain storms in recent years has caused substantial erosion on the site, creating hazardous ruts, the need for substantially more maintenance, and potential impacts to natural resources. The bathhouse is outdated and is not satisfying programmatic needs. The site lacks accessible facilities and additional amenities beachgoers expect to have. This park is heavily used with visitors attempting to park along driveways and in the street. Picnic areas are improperly designed resulting in picnic tables that are not level and pitch to the side. Metal grills are rusted out and have become a hazard. There has been an increased interest in creating a modern playground at the site. The project will address these and other deficiencies to improve public safety, access, and enjoyment of this public freshwater beach.

Impact of Denial/Postponement: The condition of the property will continue to deteriorate, resulting in escalating maintenance costs, reduced utilization, and lower public satisfaction.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$1,817,541
	Project Management	-	\$45,439
	Project Contingency	-	\$181,754
	Total Project Cost	-	\$2,044,734

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	14
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$2,044,734	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: TBD



Project Working Title: Community Building Security System

Project Location: West Barnstable, Centerville, and Osterville Community Buildings

Project Description: This project will install a remote security access system that can be controlled through the cloud. Access doors in each building will be equipped with FOB readers that will only allow authorized building access. This project will do away with the current key system. New wireless access points will be installed at important access doors.

Project Justification: Currently end users receive a key to access doors at the community buildings, which are not always returned. Installation of a FOB access system will allow the recreation department to disable an access FOB remotely if it is not returned thus limiting access to building to only currently authorized individuals. Given the concern for security in the current social climate, providing increased security for public buildings is very important.



Impact of Denial/Postponement: Currently there are unaccounted for keys to the community buildings. Community building security will continue to be compromised.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$13,510	-
	Construction or Acquisition	\$135,102	-
	Project Management	\$30,000	-
	Project Contingency	\$13,510	-
	All Other Cost	\$45,000	-
	Total Project Cost	\$237,122	-

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$237,122	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: It will reduce the need for re-keying of doors.

Project Working Title: Joshua's Pond Handicap Accessibility and Beach Improvements

Project Location: 290 Tower Hill Rd Osterville, MA 02655

Project Description: The project will fund design and permitting to construct a handicapped accessible ramp from the parking lot to the beach, stabilize the embankment between the parking lot and the beach, and enhance the beach by increasing its area and elevation with respect to fluctuating water levels.

Project Justification: Some residents have requested a ramp to the beach as access is currently limited to stairs down a steep embankment. In addition, during 2018 the pond level rose several feet higher than normal, submerging the beach, causing the stairs to separate, and creating large cracks in the mortared stone armoring on the embankment. These issues significantly limit recreational use of the beach and recreational programming such as swimming lessons. The ramp and beach improvements will complement improvements to the access drive and parking lot completed in 2017, allowing more utilization and enjoyment of this resident-only freshwater beach.



Impact of Denial/Postponement: Continuing the liability of user groups attempting to use the inadequate infrastructure to traverse onto the beach safely, and the possibility that the beach may have to be closed for public safety due to the compromised slope armoring.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$275,000
Construction or Acquisition		-	\$1,480,500
Project Management		\$30,000	\$30,000
Project Contingency		-	\$148,050
Total Project Cost		\$305,000	\$1,658,550

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$305,000	Design & Permitting			
2025	\$1,658,550	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Portions of the project may be eligible for CPC funds.

Operating Budget Impact now or in future: N/A



Joshua's Pond

Project Working Title: Osterville Recreation Building Construction

Project Location: 93 1st Ave Osterville, MA 02655

Project Description: Construction of a new recreation building in Osterville

Project Justification: The existing recreation building and site elements have reached the end of their useful life and are beyond repair. New building plans have been developed and approved by the Osterville Civic Association. Funds were appropriated in FY17 for demolition of the Bay School and recreation building. The Bay School building has been demolished and two new tennis courts constructed in its location. Construction of the new softball field is in progress. This request continues the process of restoring the site and constructing a new facility

Impact of Denial/Postponement: Usefulness of the existing recreation building will eventually be lost.



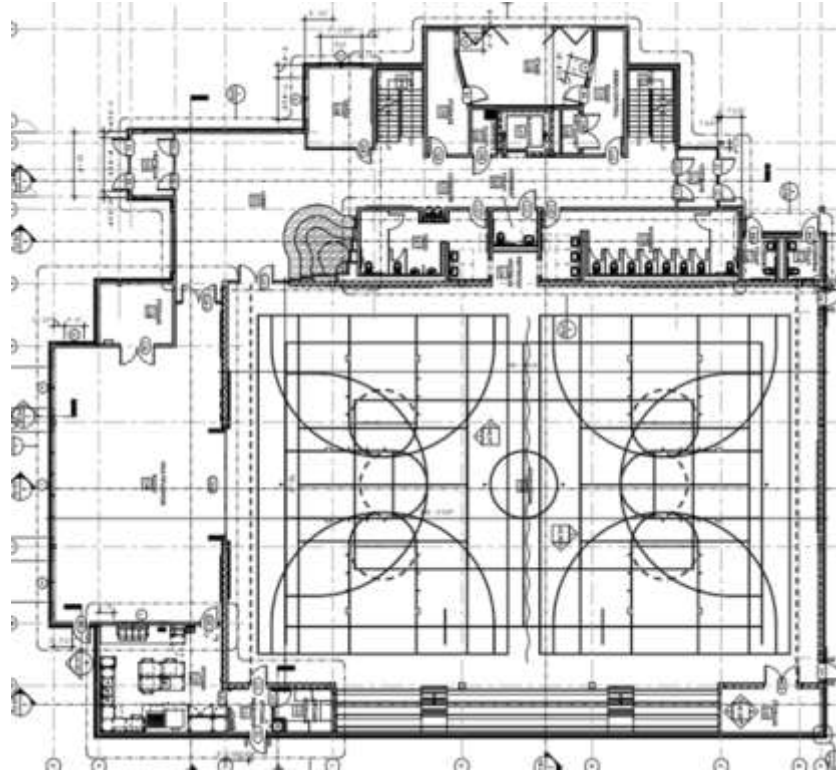
Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition		-
Project Management		-	\$794,008
Project Contingency		-	\$1,260,030
All Other Cost		-	\$35,000
Total Project Cost		-	\$15,322,503

Basis for Cost Estimates: Professional design development estimate

Project Estimated Completion Date: 2028		Design & Permit (months)	8	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2028	\$15,322,803	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: A full time custodian would be required to clean the facility.



Osterville Recreation Building & Design

Barnstable Police Department General Fund Projects

PROJECT: BPD-24

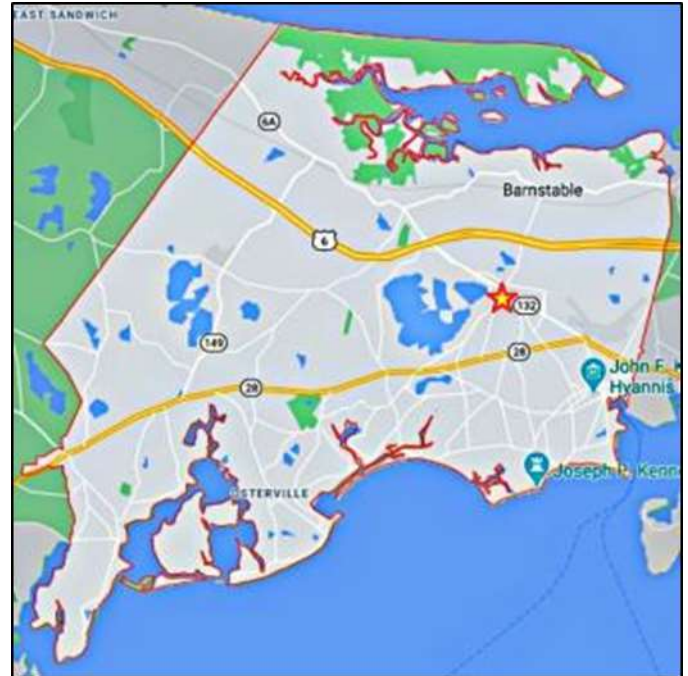
DEPARTMENT PRIORITY: 1 of 1

Project Working Title: Barnstable Police Department Improvements

Project Location: 1200 Phinney's Lane, Hyannis

Project Description: This project will update mechanical systems for the Training Room, Gymnasium, and Men's room shower spaces and garage and the replacement of 70 failing windows and overhead garage doors. The failing chimney will be removed and selective interior finishes replaced. This funding will include master space planning for the facility and parking areas in order to create a plan to reorganize and better use the 41 year old building.

Project Justification: Constructed in 1981, the Police Department Facility is one of the most heavily used buildings in Town. The facility is utilized 24/7 and as such building elements are worn out and need to be replaced. This building will need to service Barnstable for a very long time into the future.



The Training Room has a failing ventilation fan that needs to be replaced with an ERV unit that will bring in outside air as well as ventilate the space. The Training Room is heavily used by staff and outside groups. The space needs to be upgraded to provide the required amount of air exchanges and ultraviolet light sterilization of room air.

The Gymnasium has a dehumidification unit that was donated and is not operating correctly. Currently the unit drips condensate into a bucket and is inadequate for the space. A new ERV unit needs to be installed that will provide makeup air as well as dehumidify the space.

The 1981 aluminum windows are overdue for replacement. The 41 year old windows have broken window seals which decreases their insulation value. The windows have also allowed vermiculite wall insulation to infiltrate into the building. Vermiculite is considered an asbestos containing material by the DEP and requires special handling when contacted. Installation of new windows will decrease heat loss and resolve the vermiculite issue.

Some of the garage doors need replacement, along with redesign and replacement of the garage ventilation system.

The Barnstable Police Station is a hub of activity. As such, the 1981 interior layout and parking is limited and spatial relationships do not meet today's standards. This funding request includes study of the layout of the facility to coordinate future space needs. Expansions of the front parking lot will also be considered.

The Police Department facility was constructed over 41 years ago. Significant facility improvements are required. The work has been broken into four consecutive priority phases as prioritized by the Police Chief. This project continues sequential improvement work to the facility.

Impact of Denial/Postponement: The potential for vermiculite migration into interior spaces will continue. The succession of improvements to the existing facility will stall.

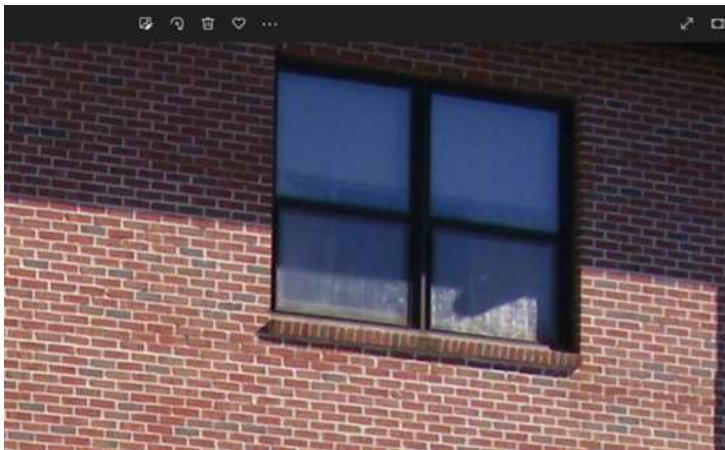
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$210,514	\$238,133
	Construction or Acquisition	\$1,754,280	\$1,984,440
	Project Management	\$70,171	\$59,533
	Project Contingency	\$210,514	\$238,133
	All Other Cost	\$50,000	\$30,000
	Total Project Cost	\$2,295,479	\$2,550,239

Basis for Cost Estimates: Architect-assisted in-house estimate

Project Estimated Completion Date: Fall 2024		Design & Permit (months)	8	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$2,295,479	Window Replacement, Hazardous Materials Removal, Mechanical			
2025	\$2,550,239	Interior Improvements			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Reduction of maintenance.



Public Works General Fund Projects

PROJECT: DPW-24

DEPARTMENT PRIORITY: 7 of 55

Project Working Title: Emergency Generator Implementation Plan

Project Location: Town Hall, School Administration Building, Hyannis Youth & Community Center, West Barnstable Community Building.

Project Description: This project (FY24) continues implementation of emergency generator installations with the installation of a new generator for the Hyannis Youth And Community Center. Future requests (FY25) will replace existing aging generators at the Barnstable Town Hall

Project Justification: HUREX 2019 exercises revealed that in the case of hurricane or major storm landfall the town's generator inventory is lacking. This CIP addresses the need for emergency standby generator enhancements at the Hyannis Youth and Community Center. This facility contains lockers, showers, food service, meeting space, and open areas that could be utilized during power loss by the community if emergency power exists at the site. Currently during power outages the facility is unusable. The addition of a generator at this building will allow operation of the facility during power outages at a key location in Town.



Impact of Denial/Postponement: Previous years funding allowed installation or replacement generators at the DPW Fleet Maintenance and Marine Environmental Affairs facilities. Generators for the West Barnstable Community Building and School Administration Building are in design. Transfer switches for various buildings as well as calculations to size the portable generator are in design, If not funded the Hyannis Youth And Community Center will continue to be unusable during power outage events and loss of ice in the rinks possible.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$95,288	\$40,950
	Construction or Acquisition	\$794,063	\$341,250
	Project Management	\$63,525	\$30,000
	Project Contingency	\$79,406	\$34,125
	All Other Cost	\$1,000	\$1,000
	Total Project Cost	\$1,033,282	\$447,325

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,033,282	HYCC Generator			
2025	\$447,325	Town Hall Generator and Auxiliary Fuel Trailer			
2026					

Source of Funding: General Fund Reserves

Operating Budget Impact now or in future: This project makes existing facilities more versatile.



Project Working Title: Public Bridge Maintenance and Repairs

Project Location: Centerville River Bridge (Craigville Beach Road, Centerville); Maraspin Creek Bridge (Millway, Barnstable Village); Mill Creek Bridge (Keveney Lane, Barnstable Village); Santuit River Bridge (School Street, Cotuit); Oyster Harbors Bridge (Bridge Street, Osterville).

Project Description: Maintenance and repairs for the bridges listed above, which are owned by the Town of Barnstable (or co-owned with neighboring towns) and inspected by MassDOT. This project predominantly involves specialized maintenance and repairs that DPW Highway Division cannot readily perform, including but not limited to repairing or replacing structural elements, railings, concrete decking, and sidewalks, correcting scour at bridge abutments, replacing expansion joints, repairing or replacing railings, etc. This project will fund repairs prioritized by the MassDOT inspections.

Project Justification: MassDOT inspects Town bridges every 2 years and provides inspection reports, which identify repairs needed to these bridges. MassDOT expects the Town to repair deficiencies in a timely manner, and it is the Town's responsibility to do so. It is also in the Town's best interests to address deficiencies when they are relatively minor, before they become safety concerns and potentially much more costly.

Impact of Denial/Postponement: Commerce Road will continue to overtop during flooding events, rendering it impassable and preventing residents from evaluating.

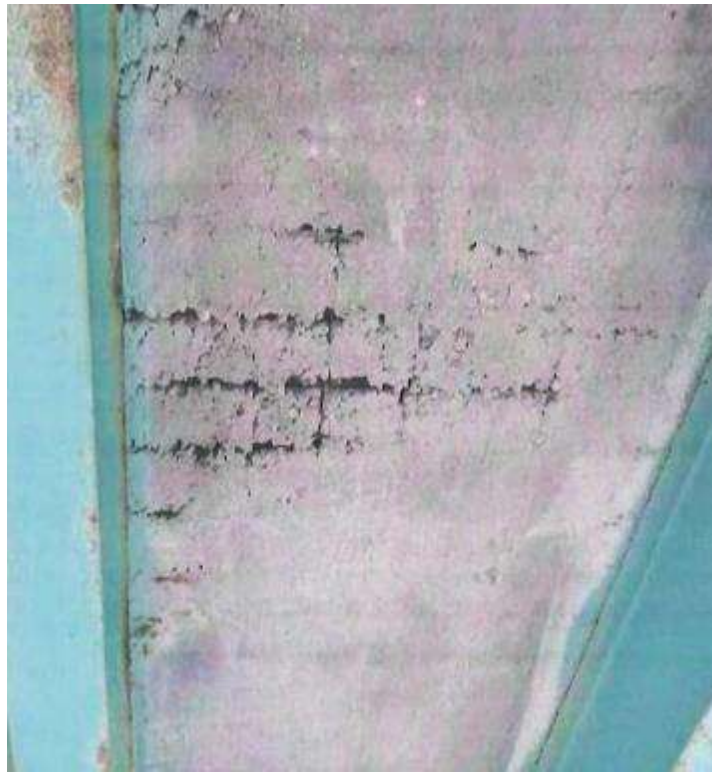
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	\$100,000
	Construction or Acquisition	\$375,000	\$750,000
	Project Management	\$25,000	\$50,000
	Project Contingency	\$50,000	\$100,000
	Total Project Cost	\$500,000	\$1,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2027		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$500,000	Design and Construction			
2025	-	-			
2026	\$500,000	Design and Construction			
2027	-	-			
2028	\$500,000	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and possible Chapter 90 funding.

Operating Budget Impact now or in future: Regular maintenance will be through operating budget



Public Bridge Needed Repairs

Project Working Title: Signalized Intersection Improvements Program

Project Location: Town-wide

Project Description: The project scope is generally anticipated to include (but is not necessarily limited to) installing/replacing/modifying aging or outdated traffic signal equipment, upgrading pedestrian signal equipment, pedestrian curb ramps, sidewalks, crosswalks, traffic signs, and pavement markings; modifying intersection geometry; and associated work (for example, improving drainage at curb ramps).

This year's request anticipates the improvements at the following prioritized traffic signals:

- o Main Street & Camp Street/Lewis Bay Road*
- o Main Street & Center Street/Old Colony Road*
- o South Street & Ocean Street/Old Colony Road*

Project Justification: Many of the Town's traffic signals are aging, outdated, and/or antiquated. In addition, many do not have safe, ADA compliant, or any pedestrian accommodations. This work is necessary to improve public safety and convenience; to provide universal accessibility and to comply with state and federal accessibility requirements; to replace deteriorated, damaged, deficient, or outdated infrastructure; and to upgrade infrastructure for improved capabilities and performance.

Impact of Denial/Postponement: Traffic signal equipment will continue to age. Motorists will continue to experience safety concerns and unnecessary delays. Pedestrians will continue to have to navigate intersections an unsafe manner.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$25,000	\$50,000
	Construction or Acquisition	\$175,000	\$350,000
	Project Management	\$5,000	\$10,000
	Project Contingency	\$5,000	\$90,000
	All Other Cost	-	-
	Total Project Cost	\$250,000	\$500,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	6	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$250,000	Design and Construction			
2025	-	-			
2026	\$250,000	Design and Construction			
2027	-	-			
2028	\$250,000	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and potential Chapter 90 funding.

Operating Budget Impact now or in future: New equipment would be expected to result in reduced man hours needed to be devoted to routine maintenance. Changes in electric costs are expected to be negligible.



Project Working Title: West Main Street & Pine Street Intersection Improvements – Design & Permitting

Project Location: West Main Street & Pine Street / Barnstable High School Driveway, Hyannis

Project Description: The project scope is anticipated to include (but is not necessarily limited to) installing traffic and pedestrian signal equipment, pedestrian curb ramps, sidewalk, crosswalks, traffic signs, and pavement markings; modifying intersection geometry; and associated work.

Project Justification: This project is necessary to improve public safety and convenience; to provide universal accessibility and to comply with state and federal accessibility requirements; and to replace deteriorated, damaged, deficient, or outdated infrastructure. Traffic signals are warranted at this location based on traffic volumes and crash history criteria in the Federal Highway Administration’s Manual on Uniform Traffic Control Devices.

Impact of Denial/Postponement: If the proposed improvements are not funded it is likely that this intersection will continue to experience a higher number of crashes and near crashes, and a lack of proper pedestrian facilities.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$172,000	-
	Construction or Acquisition	-	\$955,000
	Project Management	\$23,000	\$30,000
	Project Contingency	\$34,000	\$191,000
	All Other Cost	-	\$20,000
	Total Project Cost	\$229,000	\$1,196,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$229,000	Design and Permitting			
2025	\$1,196,000	Construction			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and potential Chapter 90 funding.

Operating Budget Impact now or in future: Maintenance costs should be reduced in the short term.



Project Working Title: Crosswalk Improvements

Project Location: Main Street & Old Colony Road, Hyannis; South Street & Old Colony Road, Hyannis; and various locations along South Street (including several school zones), Hyannis; Other locations may be added as needs arise and as funding allows.

Project Description: The project scope is anticipated to include (but is not necessarily limited to) installing / improving pedestrian signals, pedestrian flashing beacons, pedestrian curb ramps, sidewalk, crosswalks, and traffic signs.

Project Justification: This project is necessary to improve public safety and convenience; to provide universal accessibility and to comply with state and federal accessibility requirements; and to replace deteriorated, damaged, deficient, or outdated infrastructure.

Impact of Denial/Postponement: If the proposed projects are not funded pedestrian safety will not be improved at these locations, and these facilities will not comply with current federal and state accessibility requirements.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$72,000	-
	Construction or Acquisition	\$623,000	-
	Project Management	\$16,000	-
	Project Contingency	\$139,000	-
	All Other Cost	-	-
	Total Project Cost	\$850,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$850,000	Design, Permitting and Construction			
2025	-	-			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and potential Chapter 90 funding.

Operating Budget Impact now or in future: Maintenance costs should be reduced in the short term.



Project Working Title: Stormwater Improvements at Impaired Ponds

Project Location: Various Locations

Project Description: This project will fund the design, permitting and construction of stormwater improvement projects to remove untreated stormwater discharges to ponds. The project will focus on activities that can be completed within public property (i.e. roadway layouts, town landings, parking areas, etc.).

It is envisioned that this would be a reoccurring project for these types of stormwater improvements and this request is the fourth request in this program. This project will fund the evaluation, design, and permitting (if needed) of stormwater improvements at five sites at Long Pond (Centerville), Mill Pond (West Barnstable), Garretts Pond, and Round Pond. Future phases of this work will include construction of stormwater improvements at the various sites. Having these projects “shovel-ready” projects will better position them for potential grant funding.

Project Justification: In recent years many ponds in Town have seen a decrease in water quality resulting in pet advisories, warnings, and pond closures to swimming due to algae blooms (most notably cyanobacteria). One of the causes of reduced water quality in ponds is unmitigated and untreated stormwater runoff to ponds, resulting in surges of nutrients and pollutants to the ponds which can exacerbate water quality issues. There are possibly dozens of locations where these conditions exist.

The ponds listed are used for fishing, boating, swimming, and/or provide herring spawning. Each pond has experienced some type of impairment and evaluation of potential stormwater improvements at each pond is a necessary first step to identifying areas where nature based solutions can be implemented to reduce stormwater runoff to these ponds.

Impact of Denial/Postponement: Stormwater runoff to ponds will remain untreated and water quality in ponds will continue to decline.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$250,000	-
	Construction or Acquisition	-	\$1,000,000
	Project Contingency	-	\$200,000
	Total Project Cost	\$250,000	\$1,250,000

Basis for Cost Estimates: DPW Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	18	Construction (months)	-
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$250,000	Design, Permitting, Construction			
2025	\$350,000	Construction			
2026	\$300,000	Construction			
2027	\$300,000	Construction			
2028	\$300,000	Construction			

Source of Funding: General Fund Reserves. Grants will be pursued such as SNEP Watershed Grant.

Operating Budget Impact now or in future: Operation and maintenance is necessary for all stormwater systems to keep them functioning appropriately. Green infrastructure (dry swales, bioretention, etc.) solutions require less O&M than grey infrastructure (leaching catch basins).



Shubael Pond. Taken February 2021



Runoff from Santuit Newtown Road under the guardrail to Lovells Pond. Taken February 2021.

Project Working Title: Town Hall Security Implementations

Project Location: 367 Main St Hyannis, MA 02601

Project Description: This improvement plan continues phased implementation of the recommendations contained within the Internal Security Evaluation. The work will include:

- Upgrade exterior protection of the Town Hall building and exterior gas valves.
- Secure the half-moon walking path from vehicular access.
- Install metal detector at the main entrance
- Install a CCTV system to monitor the internal and external sides of all entrances
- Other related security measures.



Project Justification: FY15 Town Council approved a CIP to evaluate the security risks in Town Hall. During initial project meetings between Town leaders, the Barnstable Police Department (BPD), the Department of Public Works (DPW) it was decided that the actual evaluation could be handled internally, and the monies in that CIP should be used for implementation of identified security measures. The evaluation has been completed, and the FY15 money was used for the FY17 portion implementation plan.

Impact of Denial/Postponement: The Town will still face the same risks, but without thoughtful proactive measures in place to mitigate those risks, it is vulnerable to a potentially horrible, preventable, outcome.

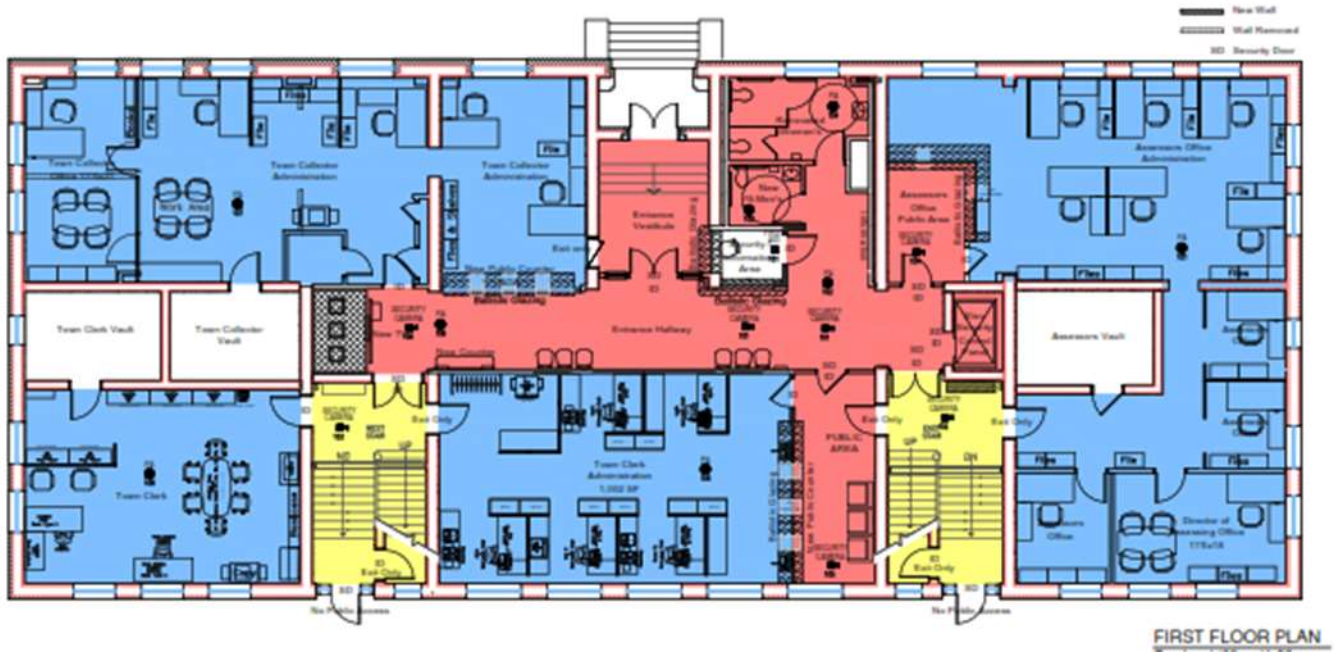
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$34,800	\$89,400
	Construction or Acquisition	\$301,600	\$774,800
	Project Management	\$30,000	\$59,600
	Project Contingency	\$23,200	\$47,680
	All Other Cost	\$20,000	\$50,000
	Total Project Cost	\$409,600	\$1,021,480`

Basis for Cost Estimates: In-house estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	8	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$409,600	Town Hall Security Implementation			
2025	\$1,021,480	School Administration Building Security Improvements			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: This project requires the hire of one security position in FY24



Town Hall

Project Working Title: Mosswood Cemetery Columbarium Project

Project Location: 280 Putnam Ave, Cotuit, MA 02635

Project Description: This project will expansion the existing columbarium with four new columbarium each containing twenty three niches for a total of 128 new burial locations. Installation will include new sidewalks, new stone bases, granite benches, columbarium units, lighting, landscape.

Project Justification: Completed in 2015 the original two unit columbarium each containing 32 niche are in high demand. As of the writing of this capital improvement request 90% are sold. The cemetery is expecting a deficit in a couple of years. The master plan developed by DPW has space for up to 13 columbarium units. DPW is requesting the construction of four additional units, in keeping with the master plan.

Impact of Denial/Postponement: There is a danger that columbarium space will run out.



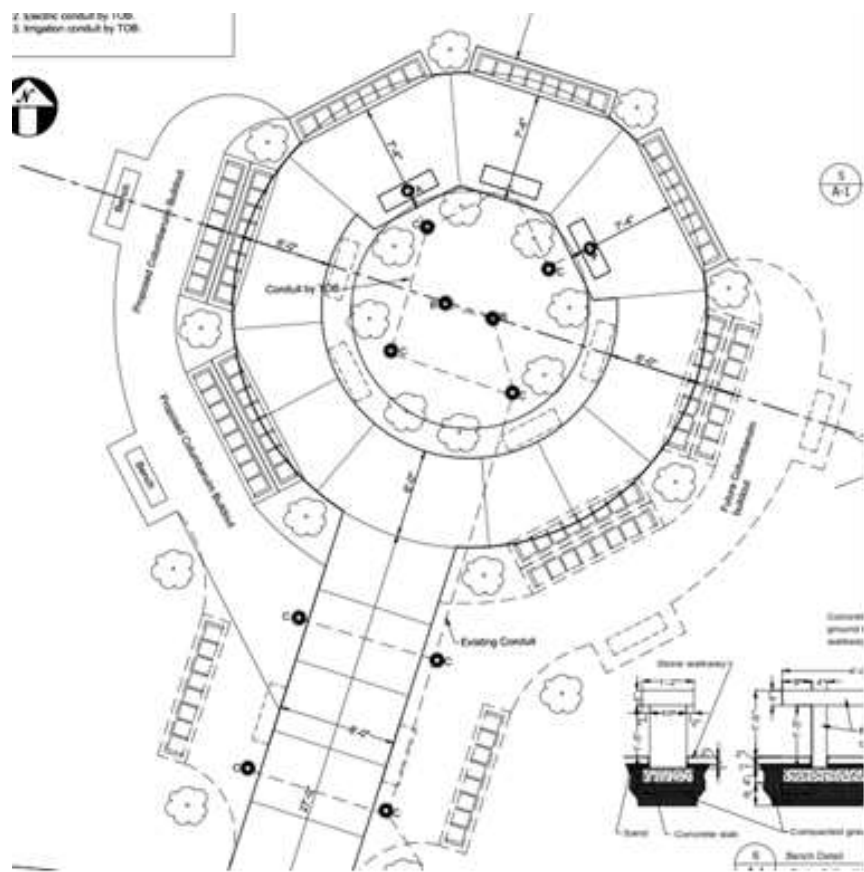
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$22,493	-
	Construction or Acquisition	\$224,928	-
	Project Management	\$17,994	-
	Project Contingency	\$22,493	-
	All Other Cost	\$1,500	-
	Total Project Cost	\$289,408	-

Basis for Cost Estimates: Department of Public Works In-house Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	4	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$289,408	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Kirkman Trust Funding may be available.

Operating Budget Impact now or in future: No



Project Working Title: Mosswood Cemetery Building Improvements

Project Location: 280 Putnam Ave, Cotuit, MA 02635

Project Description: This project includes addition and renovation to the Mosswood Cemetery Office to provide ADA accessibility and restroom facilities.

Project Justification: Mosswood Cemetery, our largest cemetery, has a single inadequate restroom that is used by employees, visitors, and mourners while they conduct business at the office and attend burial services. The renovation would provide a new toilet that will be handicapped accessible, and provide public handicap access to the building. In order to renovate, modifications to the front entrance will be required. A small addition to the side of the building will accomplish this necessity.

Impact of Denial/Postponement: We will continue to not have an accessible public restroom or acceptable access to the building. Customers and residents will continue to be inconvenienced by the existing conditions. There will be continued use of inadequate facilities by our employees.



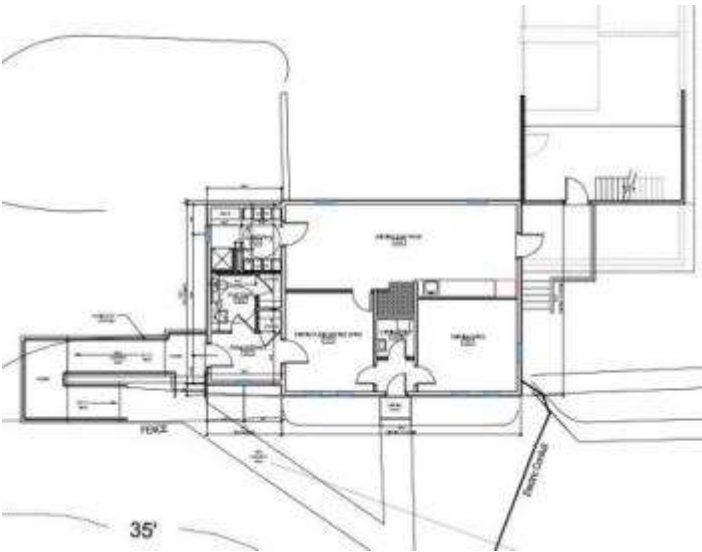
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$35,000	-
	Construction or Acquisition	-	\$244,635
	Project Management	\$30,000	\$30,000
	Project Contingency	-	\$25,365
	All Other Cost	\$25,300	-
	Total Project Cost	\$90,300	\$300,000

Basis for Cost Estimates: Department of Public Works In-house Estimate

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$90,300	Design			
2025	\$300,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Kirkman Trust Funding may be available.

Operating Budget Impact now or in future: There will be some minor increase in utility costs associated with the addition, estimated at \$800 per year.



Mosswood Cemetery Building

Project Working Title: Sidewalk Improvements: West Main Street – Design & Permitting

Project Location: West Main Street, Hyannis, between the intersections with Pitchers Way on the east and Rt. 28 on the west

Project Description: Replacement of existing sidewalk sections along both sides of West Main Street that have deteriorated and are not ADA compliant.

Project Justification: There is a high volume of pedestrian traffic along both sides of West Main Street due to the large number of businesses on the street and, in particular, students walking to and from the Barnstable High School and Hyannis West Elementary School. Many of the sidewalk sections that service this segment of the street have deteriorated over time, are too narrow for snow removal equipment to access and are not ADA compliant.

Impact of Denial/Postponement: Denial of the project will perpetuate unsafe conditions for pedestrians traveling/crossing in this section of West Main Street

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$85,000	-
	Construction or Acquisition	-	\$640,000
	Project Management	-	\$20,000
	Project Contingency	-	\$64,000
	All Other Cost	-	\$30,000
	Total Project Cost	\$85,000	\$754,000

Basis for Cost Estimates: Department of Public Works In-house Estimate

Project Estimated Completion Date: 2025		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$85,000	Design			
2025	\$754,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Chapter 90; Complete Streets

Operating Budget Impact now or in future: Maintenance will be reduced in general and snow removal equipment will facilitate and expedite clearing of the sidewalks for pedestrian traffic.



Project Working Title: Oyster Harbors Bridge Improvements

Project Location: Bridge Street at North Bay, Osterville

Project Description: The existing Oyster Harbors Bridge is a three-span draw bridge which is the sole access to Grand Island. The bridge was constructed in 1946 and requires significant repairs in order to remain operational. This project will include the design, permitting and ultimately construction of repairs/rehabilitations to the bridge in order to extend the useful life of the bridge. These repairs/rehabilitations include, but are not limited to, significant improvements to structural, mechanical, and electrical systems; painting of the bridge superstructure; and pedestrian accommodations including sidewalks, railings, ADA compliance, etc.



Project Justification: Federal regulations (33 CFR 117.622) require that the draw span of the Oyster Harbors Bridge remain operational in order to maintain navigation. Each year the bridge requires significant maintenance in order to be functional during the busy summer months. Even with significant investment and attention, each year the bridge encounters operational issues which are a direct result of the age of the infrastructure. Every two years MassDOT inspects the bridge and provides inspect reports listing dozens of necessary repairs. In addition, in 2020 the Town commissioned a more detailed inspection by a bridge engineer consultant which identified over 115 defects, totaling millions of dollars in necessary repairs. In 2021, the Town invested over \$1,000,000 to address the most immediate and critical structural and safety issues. However, there remain significant defects that require capital investment to keep the bridge operational.

Impact of Denial/Postponement: The bridge will have more regular operational failures, resulting in inconvenience to those reliant on the bridge. Continued postponement of these repairs risks significant failure of the bridge systems, which would ultimately result in isolation of Grand Island from the mainland.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$450,000	-
	Construction	-	\$3,750,000
	Project Contingency	-	\$525,000
	Project Management	-	\$250,000
	All Other Costs	-	\$25,000
	Total Project Cost	\$225,000	\$4,550,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	18	Construction (months)	36
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$450,000	Design & Permitting			
2025	\$ 2,800,000	Construction (Priority Structural/Mechanical/Electrical/Pedestrian Rehabilitations)			
2026	\$ 0				
2027	\$ 1,750,000	Construction (Superstructure Painting)			

Source of Funding: Capital Trust Fund and/or Bond Issue. Potential Chapter 90 funding.

Operating Budget Impact now or in future: This phase of the project is a study. However, eventual replacement of the bridge would be expected to significantly reduce maintenance.



Oyster Harbors Bridge

Project Working Title: Bismore Park Improvements – Design & Permitting

Project Location: Bismore Park, Hyannis

Project Description: This project redevelops the pedestrian walkways and replaces worn shanties in a new configuration. New electric services and lighting will be included at new locations and walkway. FY24 funding will allow for designing the improvements. Construction funding will be sought following years.

Project Justification: Considered temporary structures the existing shanties were relocated on an annual basis. As such the buildings are deteriorating, and the existing walkway needs continual repair. The Planning and Development Department has been working on schematic designs to improve the park, and pedestrian experience at the water front. This project begins the process of bringing that vision to fruition.

Impact of Denial/Postponement:

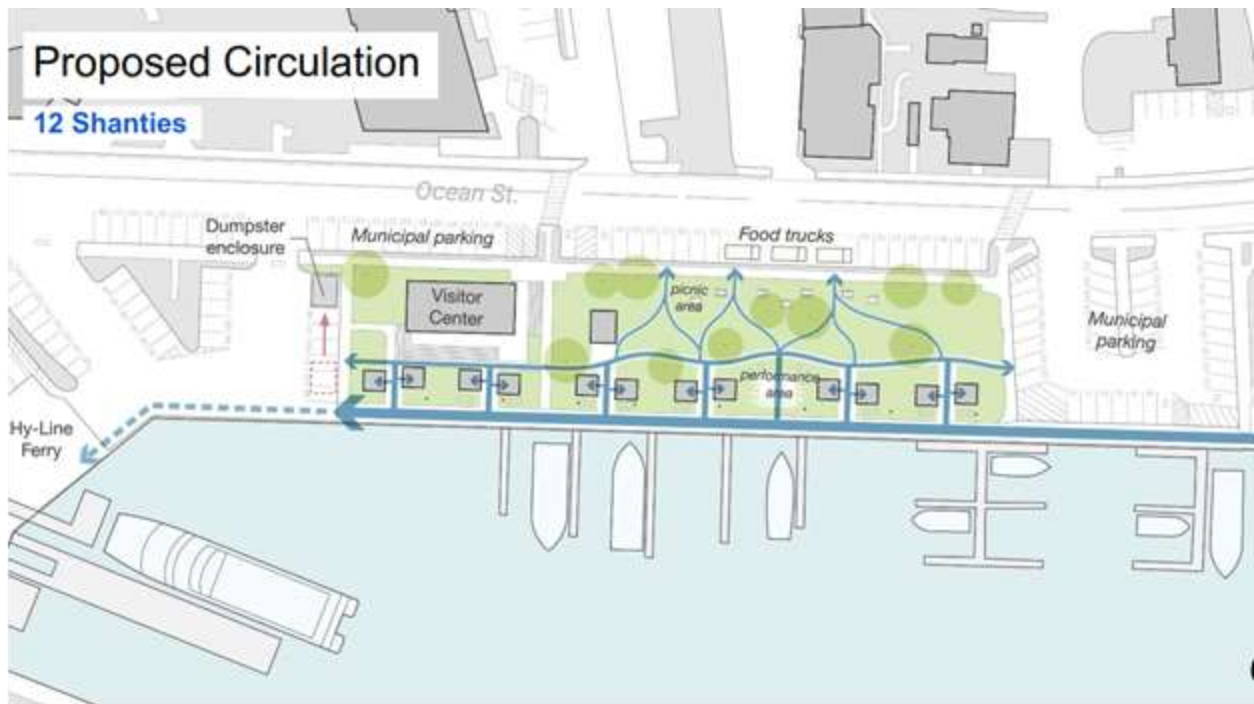
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$103,723	-
	Construction or Acquisition	-	\$864,360
	Project Management	\$30,000	\$39,149
	Project Contingency	-	\$86,436
	All Other Cost	\$30,000	-
	Total Project Cost	\$163,723	\$989,945

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2027		Design & Permit (months)	24	Construction (months)	36
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$163,723	Design and Permitting			
2025	\$989,945	Construction			
2026	-	-			
2027	-	-			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and part of this project could be funded through Community Preservation Funding.

Operating Budget Impact now or in future: Maintenance costs should be reduced in the short term.



Waterfront walkway enhancement strategies

- Replace the traditional pedestrian pole lights with an overhead canopy of lights spanning poles on either side of the walkway
- Explore different paving strategies such as hexagonal asphalt pavers for the main waterfront walkway
- Explore raising the elevation of the walkway in conjunction with the bulkhead project



Promenade of lights at San Jacinto Plaza



Light poles and lights at the Lawn on D in Boston



Union Square pavers, New York City

Project Working Title: Town Hall Improvements

Project Location: 367 Main St Hyannis, MA 02601

Project Description: This project continues improvements to the Town Hall building by replacing antiquated fire suppression elements, and performing interior renovation work. Due to overall project costs, this project has been broken down into several phases. Overall scope includes:

- Asbestos remediation
- Limited office space reconfiguration.
- Interior finish upgrades
- Installation of new ceiling systems in affected spaces
- Fire suppression system upgrades.

Project Justification: In FY16 funding was approved to replace the existing steam heating system, at Town Hall, with a hot water based heating system. A review of mechanical systems revealed the need for multiple systems upgrades throughout the building. Heating, air-conditioning, hot water, and makeup air systems all require replacement.



In addition, space planning of office areas revealed extensive asbestos related issues at various locations throughout the building that will affect renovations in multiple locations.

Funding appropriated in FY16 and FY20 will replace heating and air-condition systems. This project continues that work by funding replacement of the fresh air distribution system.

Funding appropriated in FY23 continues mechanical systems upgrades to the makeup system and coal bin structural issues.

This project continues the work of remediating asbestos, upgrading finishes and interior office layouts.

Impact of Denial/Postponement: Postponement of improvements will result in increased replacement costs. This project continues a phased approach to interior building improvements.

Project Cost Estimates:		FY 2024	Future FY
	Design, Permitting	\$157,084	\$112,196
	Construction or Acquisition	\$1,570,842	\$1,121,954
	Project Management	\$78,542	\$56,097
	Project Contingency	\$157,084	\$112,195
	All Other Cost	\$62,300	\$62,300
	Total Project Cost	\$2,025,852	\$1,464,742

Basis for Cost Estimates: Engineer-assisted DPW cost estimate

Project Estimated Completion Date: Fall 2024		Design & Permit (months)	8	Construction (months)	10
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$2,025,852	Design and Construction - Fresh Air System			
2025	\$1,464,743	Design and Construction – Interior Improvements			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: This project requires the hire of one security position in FY24



Town Hall

Project Working Title: Town Hall Campus Parking Garage - Design

Project Location: 367 Main St, Hyannis, MA 02601

Project Description: This project would design and construct a two story 200 parking space, parking garage. The project will consist of reconfiguration of the parking area, driveways, and access points and includes the construction of a parking structure. Additional site improvements and utility relocations are included.

Project Justification: The Town Hall Campus parking lot provides parking for the Town’s administrative offices as well as parking for local businesses on Main Street and the arts complex. During the summer months, the parking lot is at full capacity, and parking is difficult to find. Additional parking is needed. This project supports ease of access to Town offices and increased foot traffic to local businesses. This project will also support parking for renovations to the Armory and expansion of the Town office complex.



Impact of Denial/Postponement: Parking issues will not be addressed.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$1,104,427	-
	Construction or Acquisition	-	\$13,805,348
	Project Management	\$103,540	\$103,540
	Project Contingency	-	\$1,380,534
	All Other Cost	\$35,000	-
	Total Project Cost	\$1,242,967	\$15,289,422

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2026		Design & Permit (months)	8	Construction (months)	16
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,242,967	Design and Testing			
2025	\$15,289,422	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Additional staff would be required to monitor the parking area

Project Working Title: Town Office Relocation Project

Project Location: 367 Main St, Hyannis, MA 02601

Project Description: Consolidation and relocation of town offices from 200 Main Street into the School Administration Building and Barnstable Town Hall.

Project Justification: The Town of Barnstable is in the process of consolidating and relocating offices from 200 Main Street into the School Administration Building and the Barnstable Town Hall. Physical improvements to the building are needed to accommodate the relocation. Customer windows systems, counter tops, ballistic protection, door relocations, data and electrical improvements along with security control of the elevators will be implemented as part of the relocation of town departments.

Impact of Denial/Postponement: N/A



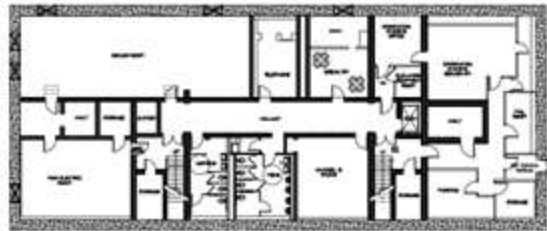
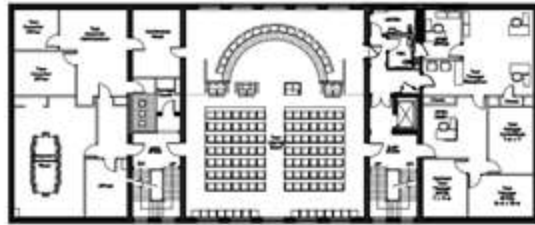
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$22,824	-
	Construction or Acquisition	\$456,470	-
	Project Management	\$36,518	-
	Project Contingency	\$45,647	-
	All Other Cost	\$57,300	-
	Total Project Cost	\$618,759	-

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	18
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$618,759	Design & Construction			
2025	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Savings from consolidated buildings.



Project Working Title: Sidewalk on Pitcher’s Way (Bears’s Way to Route 28) Design & Construction

Project Location: Pitcher’s Way from Bears’s Way to Route 28

Project Description: Provide pedestrian connection for residents along Pitcher’s Way and its abutting streets to the commercial area north on Route 132 and to the south via the Route 28 bike path.

Project Justification: The section of Pitcher’s Way from Route 28 to Bears’s Way is heavily populated and an attractive pedestrian way to various locations on Route 132. A pedestrian fatality due to a motor vehicle collision on this section of Pitcher’s Way in 2016 highlights the need for a sidewalk.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$100,000	-
	Construction or Acquisition	-	\$850,000
	Project Management	\$25,000	\$20,000
	Project Contingency	\$40,000	\$130,000
	Total Project Cost	\$165,000	\$1,000,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2026		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$165,000	Design			
2025	\$1,000,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Potential Chapter 90 funding.

Operating Budget Impact now or in future: Maintenance of the sidewalk will be increased (i.e. snow removal).



Pitcher's Way (Bearse's Way to Route 28)

Project Working Title: Cape Cod Airfield Hangar Repair

Project Location: 1000 Race Lane West Barnstable, MA 02668

Project Description: This project would fund needed structural, exterior, and hangar door repairs to the 1920 hangar building. Work will include repair / replacement of the metal roof and siding, cleaning, repair, and painting of interior corroded structural steel, and repair of the existing partially failed hangar door. These funds would provide for design, renovation, and construction.

Project Justification: Originally constructed in 1920, the hangar building has been used extensively for 100 years. Roof leaks have caused structural deterioration of columns and metal roof trusses. Metal roof and siding panels are deteriorated and in some cases missing. A structural assessment of the building was conducted in 2008. The assessment revealed extensive deterioration of structural elements along with additional issues. Temporary repairs and patching will no longer protect the building contents. CPA Funds were sought in 2008 but not granted due to the age of the building not being 100 years old thus not considered historic at that time.



Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its inevitable loss.

Project Cost Estimates:	FY 2024	Future FY
Design & Permitting	\$45,936	-
Construction or Acquisition	-	\$382,800
Project Management	\$20,000	\$18,280
Project Contingency	-	\$38,280
All Other Cost	\$39,140	\$640
Total Project Cost	\$105,076	\$440,000

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$105,076	Design and testing			
2025	\$440,000	Construction			

Source of Funding: Capital Trust Fund and/or Bond Issue, however, portions of this project are eligible for Community Preservation Funding

Operating Budget Impact now or in future: Repairs will reduce the need for staff repairs.



Cape Cod Airfield Hangar

Project Working Title: Centerville Recreation Interior Improvements

Project Location: 524 Main Street, Centerville

Project Description: This project replaces worn mechanical equipment at the facility. The work has been broken down into multi-year projects.

FY24 funding will replace immediate building needs including: Replacement of the steam heat boiler, including work on all steam pipes and radiators. Replacement of the failed makeup air system, and other items as discovered during the mechanical system replacement design.

FY25 funding would replace lighting, doors, ceiling areas, kitchen cabinet and counter tops, and chalk board restoration

FY26 funding would address restoration of the historic windows

FY27 funding would address installation of attic insulation

Project Justification: The Centerville Community Building with its adjoining playground (now in design) and play field, is one of the busiest Town facilities used by the recreation department and town residents. For the past several years, improvements have been made to the interior and exterior of the building and adjoining program areas. Continued improvements would alleviate high energy costs and greatly improve the interior environment of the facility. Given the heavy use of this location, the interior needs a significant amount of upgrade which has been deferred for years. The building is a historic structure that contributes to the historic district.

Impact of Denial/Postponement: N/A

Project Cost Estimates:		FY 2024	Future FY
	Design	\$146,412	\$99,180
	Construction	\$1,220,103	\$826,500
	Project Management	\$73,206	\$49,590
	Project Contingency	\$122,010	\$82,650
	Total Project Cost	\$1,593,031	\$1,151,820

Basis for Cost Estimates: In-house Architect Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,593,031	Permitting, Alum Treatment, and Follow-Up Monitoring for Mystic Lake			
2025	\$686,097	Interior restoration to remainder of building			
2026	\$397,303	Complete window replacement			
2027	\$68,420	Attic insulation			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: TBD



Project Working Title: Old Town Hall - JFK Museum Improvements

Project Location: 397 Main St, Hyannis, MA 02601

Project Description: Replacement of electrical supply, electrical distribution, fan coil units, elevator controls, plumbing, fire alarm upgrades, exterior lighting, roof repairs / replacement, mechanical, HVAC, and other needed physical improvements. This project implements the facility management study completed in 2018.

Project Justification: The Town Of Barnstable constructed the building in 1926 as the Barnstable Town Hall. The building currently leased to the John F Kennedy Museum. In 2018 a facility management study was completed for the building. Numerous building elements and systems were identified as overdue for replacement. The electric supply, electric distribution, tar and gravel roof system, boilers, fan coil units backflow preventers, plumbing elements, pumps, water heater, fire alarm and numerous other items are in need of replacement. As a leased property the museum receives over 50,000 visitors per year.



Installed in 2002 the fan coil units that heat and cool the Old Town Hall have exceeded their useful life. The boiler system is aged and at the end of its useful life. Although currently operating, replacement parts for these units are no longer available.

Impact of Denial/Postponement: Mechanical systems will continue to degrade and risk increases of a system failure.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$150,734	-
	Construction or Acquisition	\$1,507,342	-
	Project Management	\$100,000	-
	Project Contingency	\$150,734	-
	All Other Cost	\$70,000	-
	Total Project Cost	\$1,978,810	-

Basis for Cost Estimates: 2018 Facility Study and In-house Estimate

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,978,810	Design and Construction			
2025	-	-			
2026	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Portions of this project are eligible for Community Preservation Funding

Operating Budget Impact now or in future: N/A



JFK Museum A/C and heater unit

Project Working Title: U.S. Custom House Interior Work Building Improvements

Project Location: 3353 Main St, Barnstable, MA 02630

Project Description: Designed by Ammi B. Young, the first architect of the U.S. Treasury Department, and erected in 1856, the building and site are in the process of phased restoration. Exterior restoration of the Custom House received the Massachusetts Historic Preservation award in 2017. This project continues the restoration of the Custom House by upgrading mechanical and plumbing systems, and provides compliant handicapped access and bathroom. This building is one of the few buildings listed in the State Building Code as a “House Museum.” and has a preservation restriction held by the Massachusetts Historic Commission.



Project Justification: This property contributes significantly to the historic character of the Village of Barnstable and the Old Kings Highway Historic District. It is currently a leased property and as such mechanical system condition responsibility falls on DPW. With exterior preservation work complete on the Custom House and associated Carriage House, work on the interior of the building is now necessary. The bathroom does not meet accessibility requirements and is in need of upgrades. Handicap ramp access does not meet code and needs to be addressed. The building still operates on an old outdated steam heat system, which needs to be upgraded, and the limited toilet facilities do not meet accessibility requirements. The wood handicapped access ramp is in need of repair.

Impact of Denial/Postponement: Continued deferred repair of the interior of this facility will contribute to its deterioration, and could ultimately result in an increase in repair costs, or require the emergency replacement of existing building systems in the future while limiting the public's use of the building.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$58,991	-
	Construction or Acquisition	\$589,908	-
	Project Management	\$47,193	-
	Project Contingency	\$58,991	-
	All Other Cost	\$8,800	-
	Total Project Cost	\$763,883	-

Basis for Cost Estimates: Architect-assisted in-house estimate

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	10
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$763,883	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Exterior elements may be eligible for community preservation funding.

Operating Budget Impact now or in future: This project continues improvements on previously invested funds. Routine maintenance is anticipated to continue.



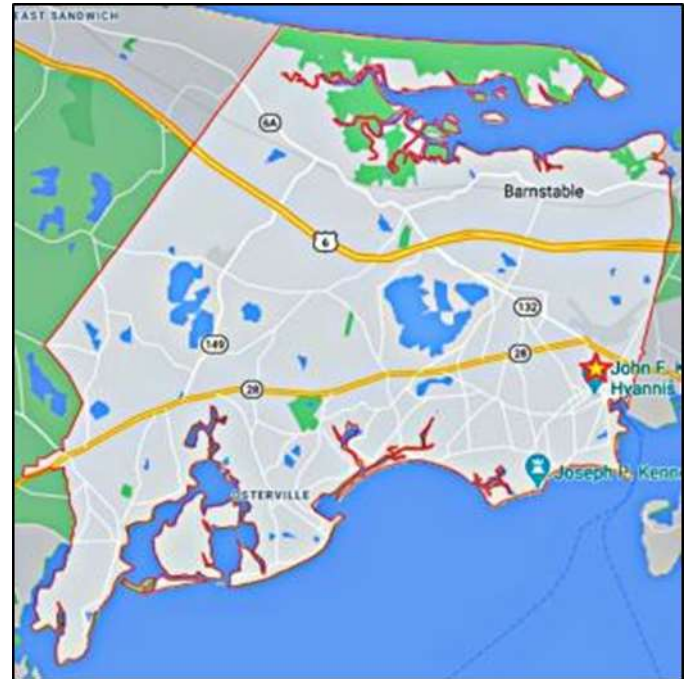
U.S. Custom House

Project Working Title: Barnstable Road Streetscape Improvements – Design & Permitting

Project Location: Barnstable Road, Hyannis

Project Description: The project will consist of the design and permitting for a streetscape reconstruction of Barnstable Road in Hyannis. This request is to cover the design of roadway improvements including stormwater, curbs/sidewalk, pedestrian/bike accommodations, landscaping, lighting, ADA and road reconstruction. It is anticipated that utility improvements, including significant water main improvements, will be designed and constructed in coordination with this effort.

Project Justification: Barnstable Road is a critical connection between the Airport Rotary and Main Street, Hyannis. The condition of Barnstable Road is deteriorating and the streetscape is tired and in need of enhancement. This area was identified in the Town’s ADA Self-Evaluation and Transition Plan as an area of major concern for ADA accessibility. The April 2007 Water Division Master Plan recommended that the 3,200 feet water main in Barnstable Road be replaced. Water Pollution Control Division (WPCD) performed an evaluation in 2019 which indicated only minor repairs are required for the sewer in Barnstable Road. Coordinating all necessary work into one construction effort will limit disturbance to citizens.



Impact of Denial/Postponement: The roadway will continue to deteriorate, the streetscape will remain unenhanced, and pedestrian accommodations will remain inadequate. Utility work will be accomplished in a piece-meal way. The water work will proceed, leaving a large trench patch in the road. Sewer work will be accomplished within the next 5 years leaving yet another trench patch. Storm drainage will not be addressed and the road will deteriorate.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$475,000	-
	Solution Implementation	-	\$5,700,000
	Project Management	-	\$100,000
	Project Contingency	-	\$600,000
	All Other Costs	-	\$100,000
	Total Project Cost	\$475,000	\$6,500,000

Basis for Cost Estimates: DPW Engineering Dept.

Project Estimated Completion Date: 2027		Design & Permit (months)	24	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$475,000	Design and Permitting			
2025	-	-			
2026	\$6,500,000	-			
2027	-	-			
2028	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Chapter 90. Potentially TIP funding for construction

Operating Budget Impact now or in future: TBD



Project Working Title: Three Bays Stormwater BMP Design & Construction

Project Location: Various locations throughout Town.

Project Description: Design, permitting and construction of improvements to various existing Town properties to address stormwater runoff into the Three Bays Watershed by installing BMP's to treat for nitrogen and phosphorus removal. This project includes the analysis of the study completed in 2017 and re-prioritization of the proposed sites, and design and permitting of the two (2) selected sites.

Project Justification: The Three Bays Watershed is one of eight (8) watersheds within the Town of Barnstable that are listed as impaired due to excess nitrogen contributions. The Town's CWMP includes sewerage properties within this watershed, however non-traditional solutions need to be explored for nitrogen removal as this area of Town is not scheduled to receive sewer improvements for another 20-years. The Town has completed seven (7) locations in the watershed through grant opportunities and completing the design and permitting of the next two (2) systems, will make any future grant opportunities more advantageous for potential construction funding.

Impact of Denial/Postponement: Continued outfall of untreated stormwater into the Three Bays Watershed

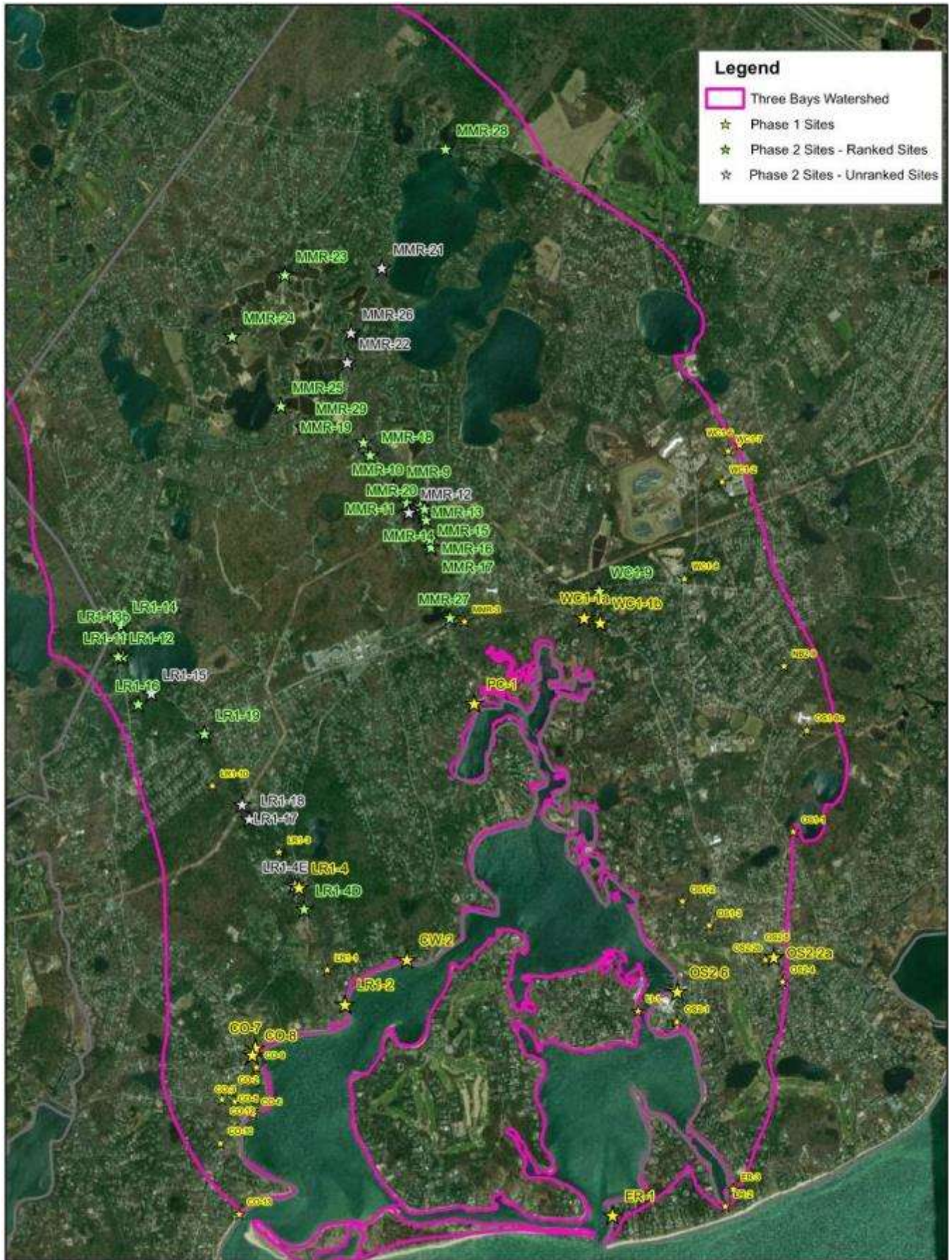
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$150,000	-
	Construction or Acquisition	-	TBD
	Total Project Cost	\$150,000	TBD

Basis for Cost Estimates: Consultant

Project Estimated Completion Date: FY 2026		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$150,000	Design			
2025	TBD	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Grants available through SNEP and/or CZM

Operating Budget Impact now or in future: MS4 treatment/removal of untreated stormwater outfalls. Operation and maintenance is necessary for all stormwater systems to keep them functioning appropriately.



Project Working Title: Old Town Hall Basement Storage

Project Location: 397 Main St, Hyannis, MA 02601

Project Description: Conversion of the existing basement area into a temperature and humidity controlled space. Moisture controlling coatings will be installed on masonry walls and floors. Mechanical systems will be updated to manage moisture and temperature. Fire alarm and suppression systems will be updated. Lighting and controls will be added. Hazardous materials will be removed.

Project Justification: Storage needs for town departments are continually increasing. There is a lack of moisture and temperature controlled storage space town.

Impact of Denial/Postponement: The basement in the Old Town Hall is underutilized with hazardous materials exposed and in need of remediation.



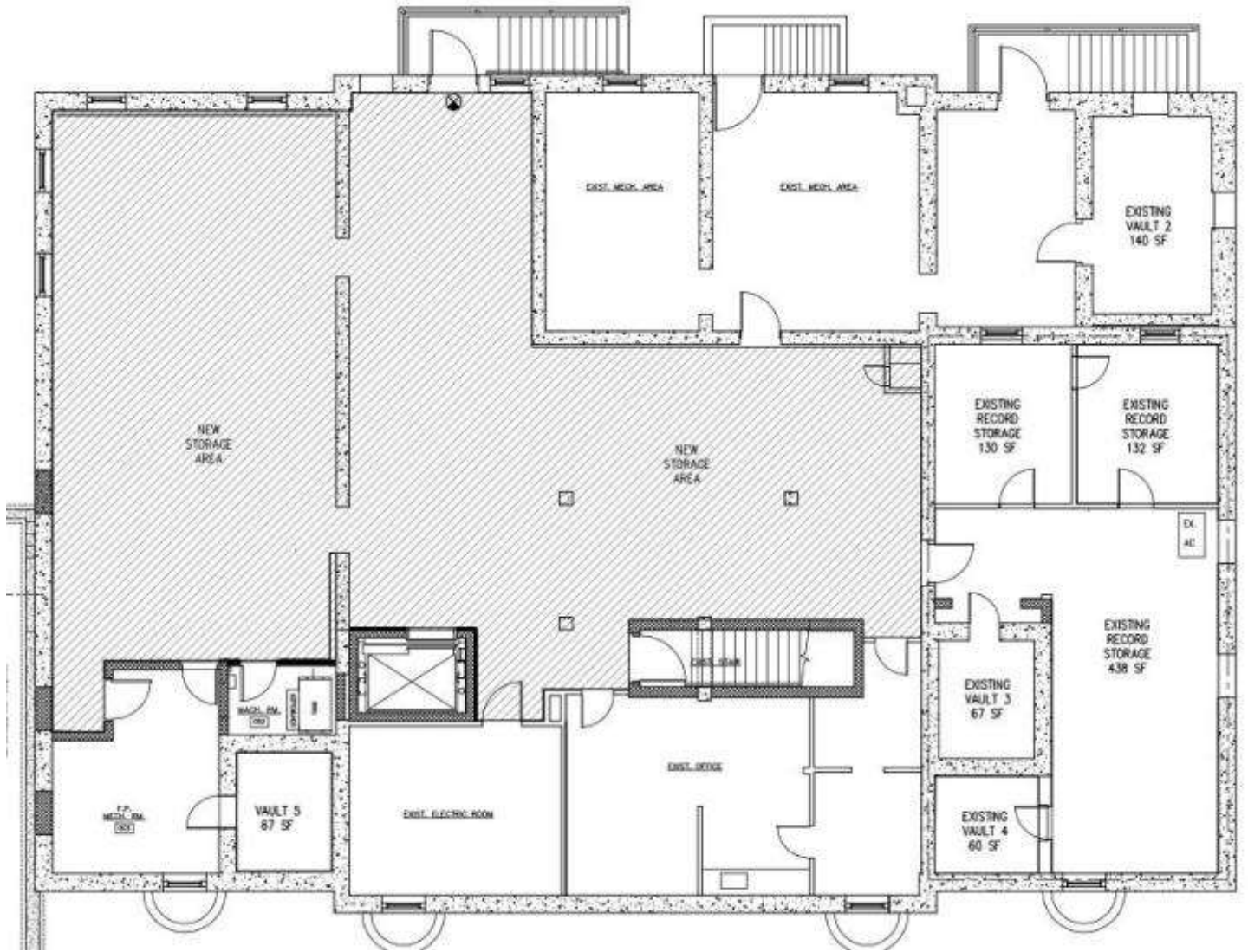
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$45,188	-
	Construction or Acquisition	\$451,882	-
	Project Management	\$35,000	-
	Project Contingency	\$45,188	-
	All Other Cost	\$57,300	-
	Total Project Cost	\$634,558	-

Basis for Cost Estimates: Department of Public Works In-house Estimate

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$634,558	Design and construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Mechanical upgrades will replace some worn equipment that would need maintenance.



Old Town Hall Basement

Project Working Title: DPW 382 Falmouth Rd Facility Parking Lot Repairs

Project Location: 382 Falmouth Rd, Hyannis, MA 02601

Project Description: Reclaim/regrade existing parking lot, provide new asphalt paving, and line striping and drainage improvements.

Project Justification: This parking lot is the hub of activity for employee and visitors parking at the DPW Administration and Highway facility. Working vehicles use the lot extensively and the parking lot is the hub of the Town’s Snow and Ice operations. The parking lot has deteriorated with many cracks and irregularities. Improved stormwater management facilities are warranted.

Impact of Denial/Postponement: Failure to repair the parking lot will result in further damage to the surface from vehicle and snow removal activities. The parking lot will become difficult to use for critical functions and become a safety hazard for vehicles and pedestrians alike.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$50,000	-
	Construction or Acquisition	\$340,000	-
	Project Contingency	\$40,000	-
	Total Project Cost	\$430,000	-

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$430,000	Design and Construction			

Source of Funding: Capital Trust Fund and/or Bond Issue.

Operating Budget Impact now or in future: N/A



DPW 382 Falmouth Rd Facility Parking Lot

Project Working Title: Sidewalks on Commerce Road (George Street to Route 6A) – Construction

Project Location: Commerce Road from George Street to Route 6A.

Project Description: Installation of a new sidewalk on Commerce Road from the termination of the existing side at George Street to Route 6A.

Project Justification: Commerce Road is an attractive and frequently used pedestrian way. This project would provide a safe pedestrian connection between Route 6A and the Commerce Road residential neighborhoods as well as Barnstable Harbor, Millway Beach and the other nearby destination.

Impact of Denial/Postponement: Failure to implement this project construction will perpetuate unsafe conditions for pedestrians traveling along the road



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
	Construction or Acquisition	-	\$1,250,000
	Project Management	-	\$30,000
	Project Contingency	-	\$250,000
	All Other Cost	-	\$50,000
	Total Project Cost	-	\$1,580,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$1,580,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and potentially Chapter 90 funding.

Operating Budget Impact now or in future: Addition of a sidewalk will require additional associated maintenance (snow plowing, etc.).



Commerce Road (George Street to Route 6A)

Project Working Title: Guyer Barn Improvements

Project Location: 250 South Street, Hyannis, MA 02601

Project Description: Emergency lighting, Interior wall finishes, water heater replacement, exit lighting, exterior lighting, and historic window restoration are scheduled to be completed at this time. This project implements the recommendations from the facility management study completed October 15, 2018.

Project Justification: The Guyer Barn is currently utilized as a year round community art space for established and emerging artists. This space is used for visual and performing arts experiences providing support for the arts and culture program. It is the hub of the pearl street arts and culture complex. This 156-year old structure requires on-going restoration and improvements to preserve its historical significance and continued use for the arts program. Some of these items are required to meet life safety requirements.

Impact of Denial/Postponement: Life safety improvements will be deferred. Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future costs.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$43,450	-
	Construction or Acquisition	\$217,250	-
	Project Management	\$30,000	-
	Project Contingency	\$21,725	-
	All Other Cost	\$30,000	-
	Total Project Cost	\$342,425	-

Basis for Cost Estimates: EMG Facilities Condition Assessment

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$342,425	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. It is estimated that this project may be eligible for \$137,000 in community preservation funding

Operating Budget Impact now or in future: This project continues improvement from previously funded projects, reduced routine maintenance is expected.



Guyer Barn

Project Working Title: 46 Pearl Street Repairs

Project Location: 46 Pearl Street, Hyannis, MA 02601

Project Description: Improvements include window replacement, exterior door repairs / replacement, roof replacement, rear deck replacement, and other improvements as discovered during repair. This project implements recommendation from the facility management study completed in October 2018. Future funds will be required to upgrade interior elements

Project Justification: The building at 46 Pearl Street is currently utilized as an artist residence and work space for artists. The facility is dedicated to promoting the arts in Barnstable. As such it provides housing and art spaces for artists. The building provides a vital role in the success of the arts and culture program. Constructed in 1920 and converted into an artist studio in 2007, the building has welcomed art enthusiasts for 15 years. Building elements of the 102 year old structure are worn and in much need of replacement or restoration. The rear deck is not accessible and has deteriorated. The failing Windows and are in need of restoration or replacement.



Impact of Denial/Postponement: Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future expenditures.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$31,680
Construction or Acquisition		\$211,200	\$77,000
Project Management		\$31,680	\$11,550
Project Contingency		\$21,120	\$7,700
All Other Cost		\$1,000	-
Total Project Cost		\$296,680	\$107,800

Basis for Cost Estimates: EMG facilities condition assessment

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$296,680	Design and construction - Exterior			
2025	\$107,800	Design and construction - Interior			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, and \$80,000 is eligible for Community Preservation Funding

Operating Budget Impact now or in future: This project relocates and upgrades an existing space within the building. Staffing will remain the same.



46 Pearl Building

Project Working Title: 50 Pearl Street Repairs

Project Location: 50 Pearl Street, Hyannis, MA 02601

Project Description: This project implements recommendation from the facility management study completed in October 2018. The proposed FY24 Improvements are limited to exterior envelope and interior mechanical work. Included are basement wall leak repairs, exterior shingle replacement, exterior door restoration, plumbing fixture replacement, water heater replacement, electric distribution system upgrade, fire alarm system repairs, and other elements as discovered during the design and construction process. FY25 improvements would encompass Interior work, including, wall, ceiling, and floor finishes, signage, and interior lighting work.



Project Justification: The building at 50 Pearl Street is currently utilized as an art gallery and workspace for established and emerging artists. The facility provides individual spaces for multiple artists to display and sell their work. Nautical-themed Vernon Coleman murals decorate the basement walls. Basement wall leaks continue to degrade the murals. This building is the only dedicated art gallery in the art complex. This building provides a vital role in the success of the arts and culture program. The 189-year-old structure is open to the public and needs to meet public safety requirements.

Impact of Denial/Postponement: Life safety improvements will be deferred. Building and site elements will continue to deteriorate due to deferred improvements resulting in greater future costs

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$25,794	\$8,759
	Construction or Acquisition	\$214,951	\$72,989
	Project Management	\$21,495	\$7,299
	Project Contingency	\$21,495	\$7,299
	All Other Cost	\$10,000	\$10,000
Total Project Cost	\$293,735	\$106,346	

Basis for Cost Estimates: EMG Facilities Condition Assessment

Project Estimated Completion Date: 2024		Design & Permit (months)	8	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$293,735	Design and construction - Exterior			
2025	\$106,346	Design and construction - Interior			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Some items may be eligible for Community Preservation Funding.

Operating Budget Impact now or in future: Reduced maintenance costs.



50 Pearl Street

Project Working Title: Sidewalk Installation: East Bay Road

Project Location: East Bay Road and Wianno Ave

Project Description: Installation of new sidewalks on East Bay Road from Bates Street to Wianno Avenue and on Wianno Avenue from East Bay Road to Sea View Avenue.

Project Justification: East Bay Road and Wianno Avenue in Osterville Village are heavily used by pedestrians. However, portions of these roadways do not have adequate pedestrian facilities. Residents of Osterville Village have requested that sidewalks be installed on the portions of East Bay Road and Wianno Avenue where there are currently no sidewalks. Engineering staff has reviewed this request and recommends the installation of sidewalks in order to improve pedestrian safety.

Impact of Denial/Postponement: Denial of the project will result in a lack of sidewalks for pedestrians along these routes, which will adversely affect pedestrian safety and access.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$132,650	-
	Construction or Acquisition	-	\$1,306,000
	Project Management	-	\$26,000
	Project Contingency	-	\$326,000
	All Other Cost	-	\$30,000
	Total Project Cost	\$132,650	\$1,658,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$132,650	Design			
2025	\$1,658,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Potential Chapter 90 funding.

Operating Budget Impact now or in future: Maintenance will be increased due to increase length of sidewalk (i.e. plowing)



East Bay Road

Project Working Title: Cotuit Memorial Park Restoration

Project Location: Main Street, Cotuit

Project Description: This project will fund the design and restoration of the existing Park. Work will include the installation of new brick walks, relocation of one war memorial, installation of a new flagpole, tree replacements, benches, landscaping. This project will correct handicapped accessibility issues and replace decaying Norway maple trees.

Project Justification: The Cotuit Memorial park is the focal point for the village connecting the library, waterfront, playground, and post office. It provides support for local events including the artisan fair, village day, craft festivals, and non-profit fund raising activities. The Cotuit Civic Association has requested the rejuvenation of the park and has worked with the Town Architect and Grounds division to develop preliminary designs for the enhancement of the site. These plans will improve pedestrian accessibility by bringing non-conforming walks into compliance with ADA, as well as replacing park benches, deteriorated flag pole, diseased trees, and asphalt walks and other site improvements.



Impact of Denial/Postponement: The condition of the park and trees will continue to decline. The asphalt walkways will continue to be displaced by tree roots and settling. The use of the park will continue to be limited.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$58,212
Construction or Acquisition		\$485,100	-
Project Management		\$43,659	-
Project Contingency		\$48,510	-
Total Project Cost		\$635,481	-

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$635,481	Design & Construction			
2025	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Portions of this project are eligible for Community Preservation Funding.

Operating Budget Impact now or in future: N/A



Cotuit Memorial Park

Project Working Title: Private Road Repairs – School Street & Old Mill Road Marstons Mills

Project Location: School Street and Old Mill Road, Marstons Mills

Project Description: Legislation passed in 2014 (Chapter 339 of the Acts of 2014 - signed by the Governor on 10/3/2014) allows that "the Town of Barnstable may from time to time, for the purpose of ensuring the safety of the general public, enter and make expenditures for undertaking maintenance and improvements within the layout, or any portion thereof, of one or more private ways within the Town". To do this the Town must make "a declaration of common usage of such private way by the general public by vote of the Town Council". Common usage is defined as "a road or any portion thereof that has been commonly used by the general public for a period of at least 20 consecutive years of travel directly from 1 public road or area to another public road or area."



The FY24 request would address School Street and Old Mill Road in Marstons Mills. These roads have degraded to the point where they require frequent maintenance and cause safety concerns for vehicles and pedestrians traveling on the street. In addition, drainage improvements are necessary on these roadways. This project also anticipates a FY25 request to fund repairs to Asa Meigs Road in Marstons Mills and Banfield Drive in Cotuit which have deteriorated significantly.

Project Justification: The roads in question are in common usage, in need of repair, and are heavily traveled. All proposed roads will be reclaimed and repaved. In addition to surface repairs, projects typically include installation or upgrading of drainage systems. Traffic calming and ADA accessibility will also be incorporated where possible and as appropriate.

Impact of Denial/Postponement: The roads will continue to deteriorate, possibly leading to unsafe and ultimately impassable conditions.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	\$1,025,000	\$400,000
	Project Management	\$35,000	\$20,000
	Project Contingency	\$153,000	\$50,000
	All Other Cost	\$20,000	\$10,000
	Total Project Cost	\$1,233,000	\$480,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2027		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,233,000	Construction – School Street and Old Mill Road, Marstons Mills			
2025	\$480,000	Construction – Asa Meigs Road, Marstons Mills and Banfield Drive, Cotuit			

Source of Funding: Sewer Construction & Private Way Improvements Fund.

Operating Budget Impact now or in future: Maintenance will be through operating budget, but anticipate reduced routine maintenance.



School Street & Old Mill Road Marstons Mills

Project Working Title: Town Hall Parking Lot Improvements - Design

Project Location: 367 Main St, Hyannis, MA 02601

Project Description: The project will fund the design of paving, curbing, landscaping, lighting, stormwater improvements and ADA improvements to resolve issues with circulation and traffic conflicts, multiple curb cuts, optimize parking layout, and improve security.

Project Justification: Town Hall parking lot is the central parking facility for town and school offices, art and historical museum activities, and overflow parking for Main Street commerce. The pavement within the parking lot is in poor condition and is in need of repairs. The proposed project would also correct deficiencies in the current automobile traffic pattern and provide safe pedestrian access to associated connection points. Current vehicular and pedestrian traffic practices, and the interaction between the two, are dangerous and inconvenient. In addition, lighting improvements are warranted within the parking lot. The proposed alterations are designed to correct these issues.



Impact of Denial/Postponement: We will continue to have problems with pedestrian and vehicular traffic. The public will continue to endure poor lighting conditions and security issues while attending evening meetings.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$85,000
Construction or Acquisition		-	\$700,000
Project Management		-	\$30,000
Project Contingency		-	\$140,000
Total Project Cost		\$85,000	\$870,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	6
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$85,000	Design and Permitting			
2025	\$870,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Additional electrical cost may occur if additional site lighting is included.



Town Hall Parking Lot

Project Working Title: U.S. Custom House Site Improvements

Project Location: 3353 Main St, Barnstable, MA 02630

Project Description: Designed by Ammi B. Young, the first architect of the U.S. Treasury Department, and erected in 1856, the building and site are in the process of phased restoration. Exterior restoration of the Custom House received the Massachusetts Historic Preservation award in 2017. The site contains three structures, the U.C. Custom House, currently used by the US Coastguard Heritage Museum, the carriage house which contains the village blacksmith, and the Old Jail which dates back to the 1600's. The site is visited by summer residents and visitors and the master plan includes converting the outhouse in the blacksmith's building to a gift shop for their wares. Additionally, the project continues the restoration of the property by restoring iron fencing, improving the decayed parking areas, relocating utilities, and upgrading signage. A comprehensive Class 1 survey is required to allow for a sitewide analysis of the site in guiding future planning.



Project Justification: This property contributes significantly to the historic character of the Village of Barnstable and the Old Kings Highway Historic District. It is currently a leased property and as such parking conditions and site restoration responsibility falls on DPW. With exterior preservation work complete on the Custom House and associated Carriage House, work to the historic site and landscape is now necessary. The extant ADA ramp that provides access to the Custom House is aging and in dire need of replacement. Additionally, there is need of an accessible dais for outdoor public lectures and presentations for which the ramp will provide a platform. Parking on the site is in disarray and not clearly defined. Stone parking areas have deteriorated. The historic cast iron fence is corroding and missing pieces and continues to deteriorate. Given the significant historical resources found at this site, it is important for the town to develop a master plan to guide the phased work towards an ultimate goal of achieving a cohesive, thoughtful approach for maximizing the public use and benefit of this landmark location.

Impact of Denial/Postponement: Continuing to defer maintenance on this facility will contribute to its deterioration and will result in increased future repair costs.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$90,718	-
	Construction or Acquisition	-	\$604,785
	Project Management	\$42,072	-
	Project Contingency	\$60,479	-
	All Other Cost	\$30,000	-
	Total Project Cost	\$223,269	\$604,785

Basis for Cost Estimates: Department of Public Works Architect In-house Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	10
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$223,269	Site restoration design			

2025	\$604,785	Site restoration construction
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Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Portions of this project are eligible for community preservation funding.

Operating Budget Impact now or in future: This project is a continuation of restoration work of the building and site



U.S. Custom House

Project Working Title: Burgess Barn Improvements

Project Location: 559 Route 149, Marstons Mills

Project Description: This project would fund interior renovations and stabilization of the building interior and access points the Burgess Barn. The work will consist of interior construction, mechanical, electrical, thermal insulation, interior improvements, and installation of new ADA accessible restroom in order to make the space occupiable by groups using the property. A seating area of 25 to 35 chairs is possible in the space with standing room for 40. Those numbers could increase based on the pending desing. A septic system for the building would be installed as part of the work.

Project Justification: Erected in the late 1700's, the building was is in a state of significant disrepair and in danger of being lost. CPA funding was approved in FY14 to fund extensive preservation of the exterior of the building. Windows and doors have been restored and new siding has been installed. The roof was replaced in 2016. Additional funding would allow the renovation of the interior to allow the building to be occupied. Renovations would include an ADA accessible entrance and restrooms, and would modify the interior so it is usable as a community space. The Marstons Mills Village Association that utilizes the Burgess House envisions use of the barn for larger meetings and events. The new space could be designed so accessible toilet facilities could be accessed from Burgess park. Without additional funding, the building will remain suitable for cold storage only and underutilized.



Impact of Denial/Postponement: Continued deferred renovation of this building will continue its non-use resulting in deterioration of work previously funded by the Community Preservation Board

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$56,070	-
	Construction or Acquisition	-	\$560,700
	Project Management	\$30,000	\$20,000
	Project Contingency	-	\$56,070
	All Other Cost	\$5,000	\$5,000
	Total Project Cost	\$91,070	\$641,770

Basis for Cost Estimates: Department of Public Works In-house Estimate

Project Estimated Completion Date: 2024		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$91,070	Design			
2025	\$641,770	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Portions of this project are eligible for Community Preservation Funding.

Operating Budget Impact now or in future: The building is maintained by the current leaseholder.



Burgess Barn

Project Working Title: Hyannis West End Rotary Study Design and Construction

Project Location: West End Rotary, Main Street, Hyannis

Project Description: At the request of the Town, the Cape Cod Commission (CCC) completed a Road Safety Audit (RSA) of the rotary, which identifies safety issues and potential improvements to address these issues. This project will fund further evaluation and design of recommended improvements at the rotary.

Project Justification: The West End Rotary is an important “gateway” to downtown Hyannis and is need of improvements in order to improve safety. Barnstable Police Department has identified the West End Rotary as the #4 highest ranked crash locations in Town. The RSA identifies many observation and potential safety enhancements including:

- Improvements to multi-modal accommodations, particularly; pedestrian and bicycle;
- Geometric improvements;
- Improved signage and pavement markings;
- Reduction in curb cuts, and;
- Growth in the area is likely to exacerbate these concerns unless properly addressed.



Impact of Denial/Postponement: Work will be accomplished in a piece-meal way. The water work will proceed, leaving a large trench patch in the road. Sewer work will be accomplished within the next 5 years leaving yet another trench patch. Storm drainage will not be addressed and the road will deteriorate.

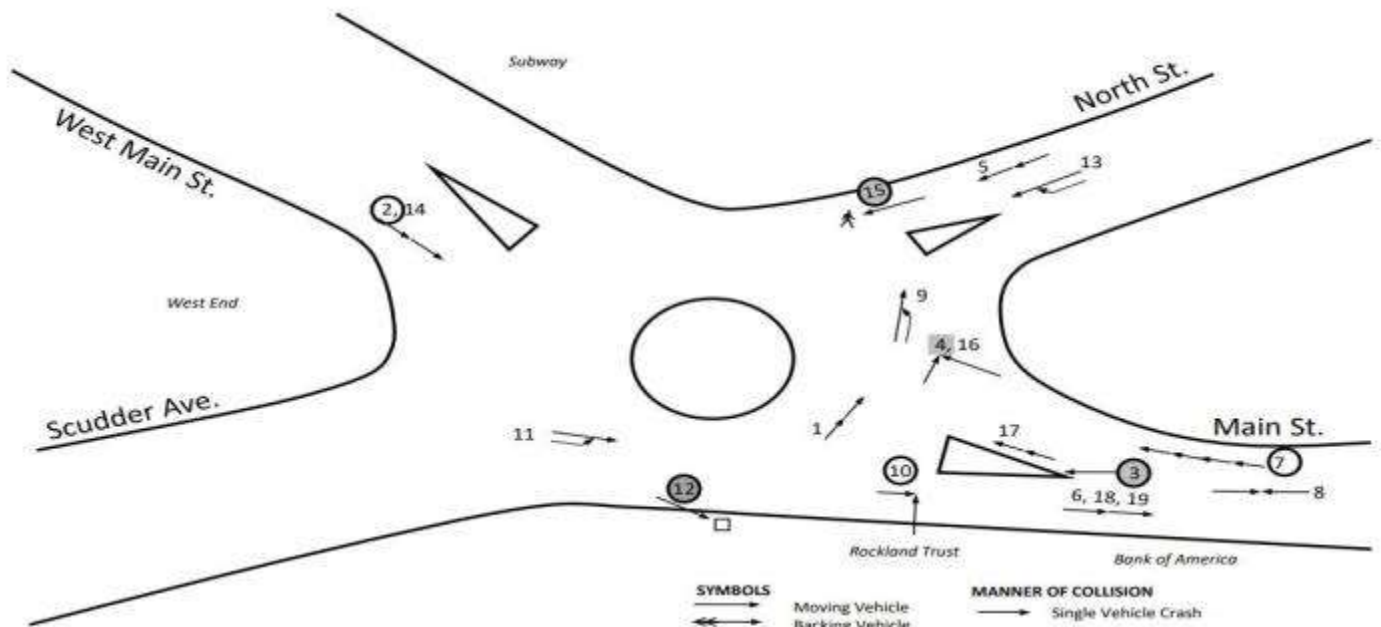
Project Cost Estimates:	FY 2024	Future FY
Design & Permitting	-	\$250,000
Construction or Acquisition	-	\$2,500,000
Project Management	-	\$100,000
Project Contingency	-	\$350,000
All Other Cost	-	\$100,000
Total Project Cost	-	\$3,300,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$250,000	Design and Permitting			
2026	\$3,050,000	Construction			

Source of Funding: Capital Trust Fund and/or Bond Issue. Also, potential Chapter 90. Potentially TIP funding for construction.

Operating Budget Impact now or in future: N/A



CRASH DIAGRAM

Location: West End Rotary
 Town: Barnstable
 Date of Crash Data: 1/1/16 - 12/31/20
 Total Crashes: 19 Injury Crashes: 6 Fatal Crashes: 0
 Note:

SYMBOLS

- Moving Vehicle
- ← Backing Vehicle
- ↔ Lane Change
- ↘ Turning Vehicle
- ∞ Out of Control Vehicle
- ⋯ Indirectly Involved Vehicle
- 🚲 Bicycle
- 🚶 Pedestrian
- ▭ Parked Vehicle
- ◻ Fixed Object

MANNER OF COLLISION

- Single Vehicle Crash
- ↔ Rear-end
- ↘ Angle
- ↔ Sideswipe
- Head on
- ↔ Rear to Rear

SEVERITY

- Injury Crash
- ◐ Nighttime Crash
- Fatal Crash



Hyannis West End Rotary

Project Working Title: Equipment Storage Building - Barnstable Police Department, Marine & Environmental Affairs, Weights & Measures Equipment Storage Building

Project Location: Phinney’s Lane, Centerville, MA

Project Description: This project will fund the design and construction of a 7,000 square foot storage building to be used by the Barnstable Police Department, Marine Environmental Affairs, and the Weights and Measures departments.

Project Justification: Currently, various pieces of expensive equipment are stored at various locations throughout the Town. Some of these locations can only be temporarily used and, in some instances, the equipment is being stored outside. Additionally, there is no place to store the police command post, an expensive asset, which is being exposed to the elements, accelerating its deterioration. The weights and measures prover truck needs to be stored indoors. It is currently located in the armory, which is now being renovated. MEA boats that have traditionally been stored in the Armory need a storage location as well.



Impact of Denial/Postponement: Town assets will continue to deteriorate at an accelerated pace.

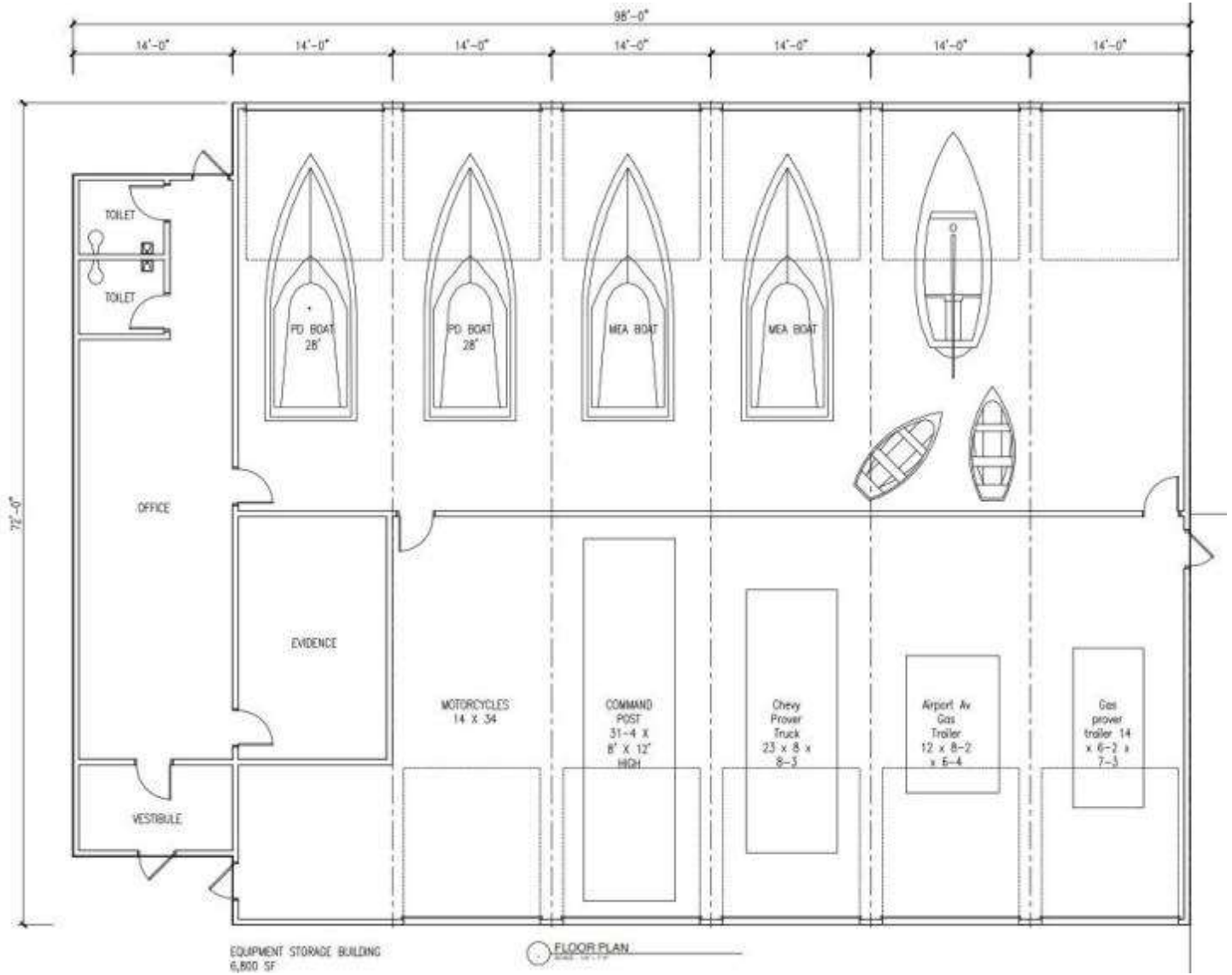
Project Cost Estimates:	FY 2024		Future FY	
	Design & Permitting	\$249,588	-	-
Construction or Acquisition	-	-	\$2,495,880	-
Project Management	\$30,000	-	\$30,000	-
Project Contingency	-	-	\$249,588	-
All Other Cost	\$57,300	-	-	-
Total Project Cost	\$336,888	\$336,888	\$2,775,468	\$2,775,468

Basis for Cost Estimates: Department of Public Works Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$336,888	Design			
2025	\$2,775,468	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: This project continues to improve existing facilities that would otherwise cost more to replace. A custodian would be needed for cleaning the additional square footage.



Storage Facility Diagram

Project Working Title: Concrete Guardrail Replacement

Project Location: Town wide

Project Description: This project funds the installation of new guardrail or removal and replacement of deteriorated concrete post with and without steel cable and damaged guardrails. Locations for this work will be determined by inspection coordinated between Highway and Engineering Divisions of the Department of Public Works. The program is anticipated to be implemented over 5-years.

Project Justification: The Town of Barnstable has approximately 9.2 miles of guardrail, some of which does not meet the MUTCD standards and others that need replacing. Current guardrail throughout the Town consists of concrete posts w/o steel cables, timber, steel backed timber, weathered steel and galvanized steel. Replacement allows various locations to meet MassDOT standards and damaged location to be repaired.

Impact of Denial/Postponement: Pedestrian and vehicle safety can be impacted by allowing current guardrail to age without a replacement plan.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	\$145,000	\$725,000
	Project Contingency	\$20,000	\$80,000
	Total Project Cost	\$165,000	\$805,000

Basis for Cost Estimates: In-house estimate

Project Estimated Completion Date: FY 2024	Design & Permit (months)	-	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:				
Fiscal Year	Cost	Project Description/Components		
2024	\$165,000	Design and Construction		
2025	\$190,000	Design and Construction		
2026	\$220,000	Design and Construction		
2027	\$280,000	Design and Construction		
2028	\$115,000	Design and Construction		

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue, potential Chapter 90 funding.

Operating Budget Impact now or in future: This is existing infrastructure which is already being maintained. This work should decrease the need for expenditure in the short term.



Concrete Guardrail Removal

Project Working Title: South Street Improvements - Design

Project Location: South Street Hyannis (Sea Street to Lewis Bay Road)

Project Description: Design and permitting of a complete street renovation, involving traffic flow analysis, roadway base and sub base analysis, bicycle and pedestrian movement analysis, ADA improvements and an evaluation of the sidewalks, roadway surface and storm water systems.

Project Justification: South Street is one of the main transportation arteries in Hyannis. The roadway carries traffic from the west enabling access to the Cape Cod Hospital, Hyannis waterfront, arts centers, museums, and the center of Town government. Several years ago, the water mains were upgraded in the roadway but only a thin overlay was provided to cover the resulting trenches. In recent years, the gas utilities were replaced. Next, sewer work is scheduled. At the end of all this work, the road surface will need to be addressed. Additionally, the major signalized intersection at Old Colony, South, and Ocean Street needs upgrading. The adjacent curbing and sidewalks are showing signs of disrepair. Lighting should be provided for pedestrian and vehicle safety. Drainage systems in the roadway are inadequate, resulting in flooding in the road at times of heavy rainfall. Allocation of space in the road layout for bicycles and pedestrians will result in addressing the needs for these modes of travel and increase the accessibility to the many attractions along the roadway for local users and visitors alike.



Impact of Denial/Postponement: Failure to fund South Street improvements will result in continued deterioration of the roadway surface features and underground utilities. An opportunity to upgrade the corridor to provide excellent access to the many businesses, cultural attractions, and Municipal offices will be lost. Safety issues with curb ramps and sidewalks will be exacerbated and excessive maintenance funds required to provide a minimum level of service.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$400,000
	Construction or Acquisition	-	\$5,635,000
	Project Management	-	\$500,000
	Project Contingency	-	\$465,000
	All Other Cost	-	\$100,000
	Total Project Cost	-	\$7,100,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: FY 2028		Design & Permit (months)	12	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$400,000	Design and Permitting			
2026	-	-			
2027	\$6,700,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: Over the past 18 months, DPW Highway has occurred approximately \$10,000 in emergency repairs to the road. Additional electrical cost will occur if decorative lighting is added. Drainage maintenance and additional lighting potentially.



South Street

Project Working Title: Commerce Road Improvements

Project Location: Commerce Road, Barnstable Village

Project Description: This project will raise portions of Commerce Road (from approximately house #281 to approximately #383) above the flood zone elevation to increase the ability of residents to evacuate the neighborhood when flooding occurs. The project also includes the replacement of the existing, aging culvert.

Project Justification: Commerce Road, like many coastal roads/neighborhoods has experienced an increase in flooding in recent years. This has led to residents being trapped in their homes due to that flooding, and emergency services workers having to make rescues during the heights of the storms. Based on predictions concerning sea level rise, it is expected that these types of incidents will only increase with time. This proposal will provide improved egress for residents to evacuate the neighborhood during flooding events, and improved access for emergency services to reach residents during these events, but will not prevent flooding from happening within the residential areas near Maraspin Creek/Commerce Road or the associated property damage.



Impact of Denial/Postponement: Commerce Road will continue to overtop during flooding events, rendering it impassable and preventing residents from evaluating.

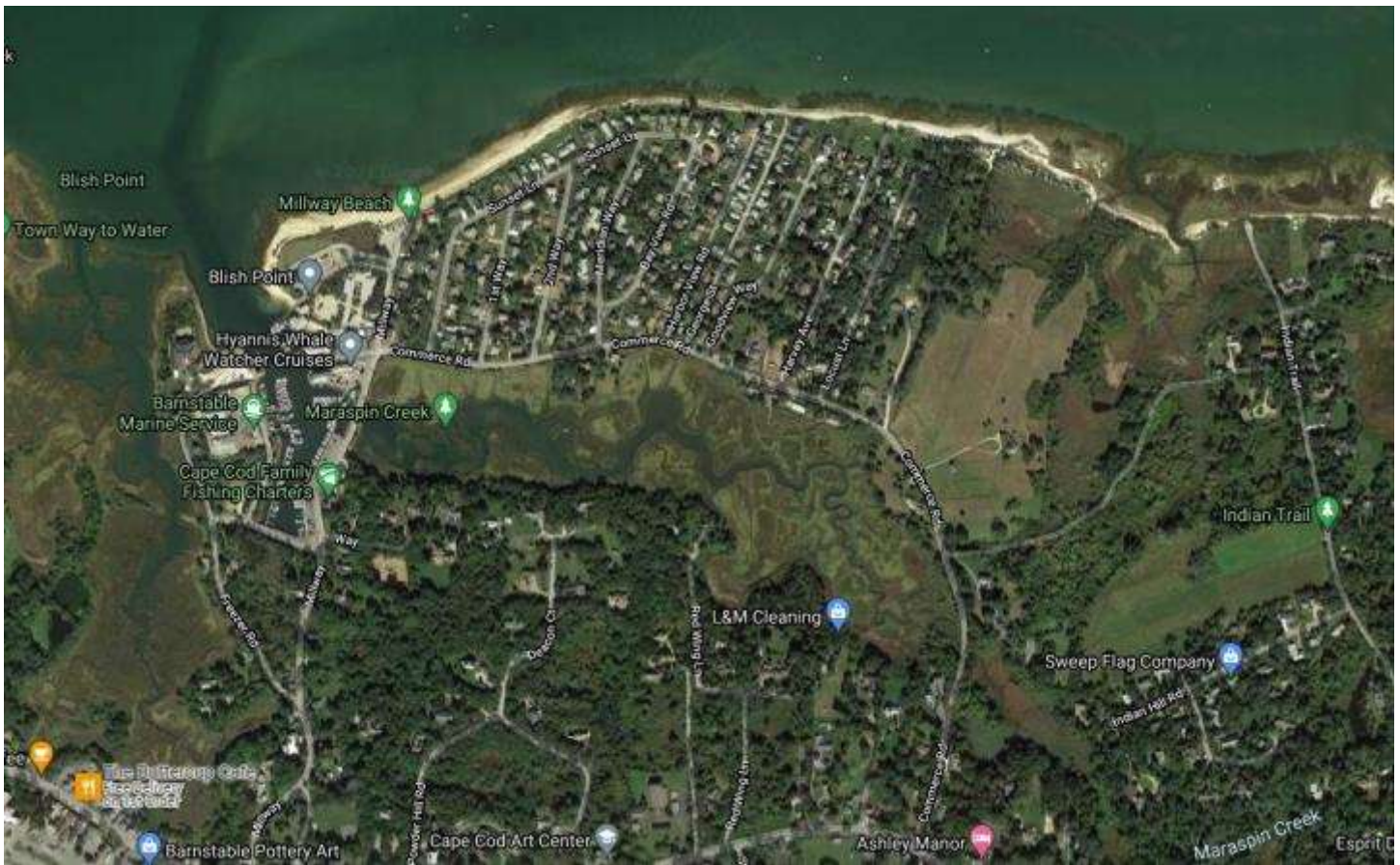
Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	-
Construction or Acquisition	-	\$3,250,000	
Project Management	-	\$70,000	
Project Contingency	-	\$650,000	
All Other Cost	-	\$100,000	
Total Project Cost	-	\$4,070,000	

Basis for Cost Estimates: Consultant

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$4,070,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Potential grants available through NRCS, MVP and other culvert replacement grant opportunities.

Operating Budget Impact now or in future: Maintenance for new culvert and sidewalk will be through operating budget



Maraspin Creek

Project Working Title: Culvert Improvements

Project Location: Various locations throughout Town

Project Description: Design, permitting and construction of improvements to various existing culverts in need of repair throughout the Town of Barnstable. This project is intended to be a recurring effort to repair existing culverts throughout the Town, based on prioritization created by Department of Public Works.

Project Justification: The Engineering department receives many requests each year repair or replace problematic drainage culverts throughout the town. When culvert issues are not addressed the results can be ponding of stormwater onto roads, damage to private properties and damage to roadway infrastructure. This project would allow the Engineering department to address these requests based on prioritization.

Impact of Denial/Postponement: Failure to repair the listed culverts will result in further deterioration of the culverts, potentially resulting in un-passable roads and flooding. They will become a safety risk to residents and visitors of the Town of Barnstable.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	-	\$75,000
	Construction or Acquisition	-	\$475,000
	Project Management	-	\$20,000
	Project Contingency	-	\$30,000
	Total Project Cost	-	\$600,000

Basis for Cost Estimates: Department of Public Works Engineering

Project Estimated Completion Date: 2026		Design & Permit (months)	12	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$600,000	Design and Construction			
2026	-	-			
2027	-	-			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. Culvert Replacement grants are available and DPW will continue to apply.

Operating Budget Impact now or in future: Several culverts require routine maintenance to install safety measures due to failing culverts or surrounding slopes. Culverts are maintained through Highway Operating budget.



Culverts

Project Working Title: Old Jail Repairs

Project Location: 3365 Main St, Barnstable, MA 02630

Project Description: Built in the late 1600’s and one of the oldest wooden jails in the state, this project would fund needed structural, accessibility, exterior and site improvements to the building. These funds would provide for design and renovation / construction. There is renewed interest in expanding access and viewing of the old jail as part of expanding operations of the Coast Guard Heritage Museum campus and Blacksmith Shop. FY24 funding request will develop construction drawings. FY25 funding request will provide funds for construction.

Project Justification: In 2011 CBI Consulting completed a historic building study for this building. Originally constructed in 1690, the building has been moved, patched, repaired and painted, but additional renovations are now necessary. Extensive deterioration of original floor supports has been observed in the basement. Repair work identified as needing to be done in 2011 is included as part of this project.



Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its further deterioration and increased cost of repair. At some point the structural deterioration will become a life safety issue and the building will not be habitable.

Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$45,738
Construction or Acquisition		-	\$304,920
Project Management		\$20,000	\$10,492
Project Contingency		-	\$30,492
All Other Cost		\$30,000	-
Total Project Cost		\$95,738	\$345,904

Basis for Cost Estimates: Department of Public Works Architect In-house Estimate

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$95,738	Design			
2025	\$345,904	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue. This project is eligible for Community Preservation Funding

Operating Budget Impact now or in future: These renovations are not expected to have a measurable impact on the Operating Budget.



Old Jail

Project Working Title: Cotuit Elementary School Demolition

Project Location: Cotuit

Project Description: This funding request will fund hazardous materials abatement, design, bidding, and demolition of the school building. The project includes foundation removal, loam and seeding of the project site

Project Justification: The former elementary school was closed in 2009 by the Barnstable Public Schools during a major reconfiguration of the schools districts. The Waldorf School utilized the building until 2019 at which time the property was declared surplus and now sits vacant. The property contains tennis courts, ballfields, and parking areas that are used by the village residents. Removal of the building will open the site for other use opportunities

Impact of Denial/Postponement: If not addressed, the building will continue to deteriorate, and become un-occupyable. The building, although secured, will become a target of vandalism. Some interior finishes containing asbestos have failed and will continue to deteriorate costing more to resolve in the future. As the building continues to deteriorate, water infiltration and mold growth will increase creating a larger problem.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting	\$89,560	-
	Construction or Acquisition	\$746,333	-
	Project Management	\$37,317	-
	Project Contingency	\$74,633	-
	All Other Cost	\$92,100	-
	Total Project Cost	\$1,039,943	-

Basis for Cost Estimates: Consultant estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	6	Construction (months)	8
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$1,039,943	Design and Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue.

Operating Budget Impact now or in future: An ageing facility will be removed, and therefore, maintenance will be eliminated



Cotuit Elementary School

School Department Projects

PROJECT: SCH-24

DEPARTMENT PRIORITY: 1 of 12

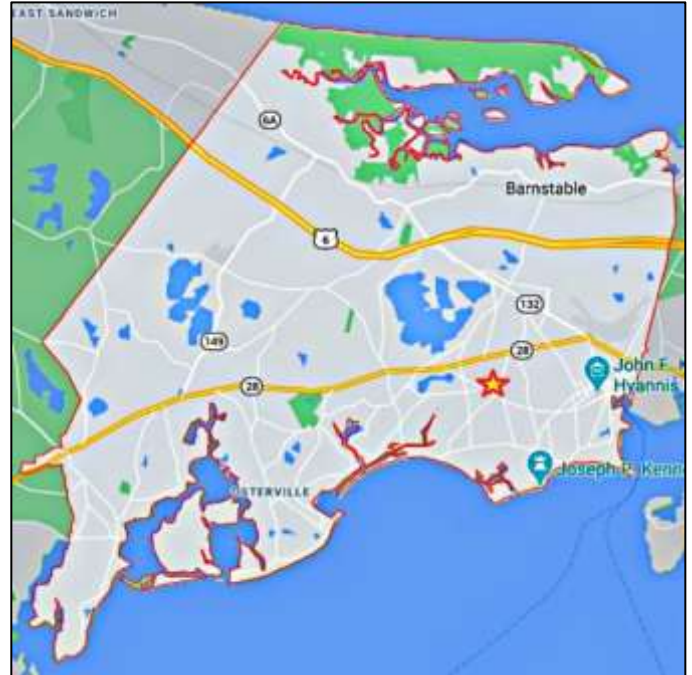
Project Working Title: Barnstable High School/Barnstable Intermediate School (BHS/BIS) Roof Top Unit Ventilator (RTU) Replacement

Project Location: 744 W Main St Hyannis, MA 02601

Project Description: Multi-phased plan to replace and upgrade existing RTU at BHS & BIS, (BIS RTU's 1,2,13,14 & 15.

Project Justification: Existing RTU's at both locations are greater than 20 years old. In many units the air conditioning compressors have failed and replacement parts are not available leaving areas of the building without ample cooling. Additionally, the chassis, frame, and cabinet components of the units are deteriorating allowing infiltration into the unit causing eventual leaks within the building.

Impact of Denial/Postponement: Denial or postponement of this project will result in continued deterioration of existing equipment with eventual permanent loss of heating and cooling.



Project Cost Estimates:		FY 2024	Future FY
	Design & Permitting		\$300,000
Construction or Acquisition		\$2,200,000	\$16,000,000
Project Management		\$125,000	-
Project Contingency		\$375,000	-
Total Project Cost		\$3,000,000	\$16,000,000

Basis for Cost Estimates: In-House Estimate

Project Estimated Completion Date: FY 2025		Design & Permit (months)	12	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$3,000,000	Design/Construction			
2025	\$4,000,000	Design/Construction			
2026	\$4,000,000	Design/Construction			
2027	\$4,000,000	Design/Construction			
2028	\$4,000,000	Design/Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: N/A



Project Working Title: Transportation Building / District Storage

Project Location: 845 Falmouth Rd, Barnstable, MA 02601

Project Description: This project is for Design and Engineering to add additional space to the facilities shop/offices. This will both allow the transportation department space to conduct business with the public that meets ADA standards. While also providing much needed storage to our Schools.

Project Justification: The current transportation department offices and public access is not ADA compliant. Lastly, the storage of materials will continue to take up educational spaces in many schools.

Impact of Denial/Postponement: Denial or postponement will result in a unsatisfactory public experience and limited district storage of property.



Project Cost Estimates:		FY 2024	Future FY
	Design	\$150,000	
	Construction or Acquisition	-	\$1,850,000
	Total Project Cost	\$150,000	\$1,850,000

Basis for Cost Estimates: Budgetary costs based on previous projects and vendor estimates.

Project Estimated Completion Date: 2025		Design & Permit (months)	6	Construction (months)	12
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	\$150,000	Design			
2024	\$1,850,000	Construction			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: N/A

Project Working Title: Network Server Upgrades

Project Location: District Wide

Project Description: Upgrades to district network servers

Project Justification: Upgrades necessary to maintain reliability and performance of district information network.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$200,000
	Total Project Cost	-	\$200,000

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: 2026		Design & Permit (months)	-	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	\$100,000	Server Upgrades			
2026	\$100,000	Server Upgrades			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: N/A

Project Working Title: Wireless Access Upgrades

Project Location: District Wide

Project Description: Upgrades to district wireless access network

Project Justification: Upgrades necessary to maintain reliability and performance of district information network.

Impact of Denial/Postponement: Denial or postponement of this project will render the courtyard space unusable with loss of educational programming opportunities.

Project Cost Estimates:		FY 2024	Future FY
	Construction or Acquisition	-	\$100,000
	Total Project Cost	-	\$100,000

Basis for Cost Estimates: In-house Estimate

Project Estimated Completion Date: FY 2024		Design & Permit (months)	-	Construction (months)	24
Cost/Description FY 2024 and Follow-On Years:					
Fiscal Year	Cost	Project Description/Components			
2024	-	-			
2025	-	-			
2026	\$100,000	Wireless Upgrades			

Source of Funding: Capital Trust Fund Reserves and/or Bond Issue

Operating Budget Impact now or in future: N/A

APPENDIX A – FISCAL YEAR 2024 CAPITAL BUDGET APPROPRIATIONS ORDERS

2023-073 APPROPRIATION ORDER

Sandy Neck Enterprise Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$50,000** be appropriated for the purpose of funding the Final Design of the Sandy Neck Facility Reconfiguration Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$50,000** be provided from the Sandy Neck Enterprise Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-074 APPROPRIATION AND TRANSFER ORDER

Marina Enterprise Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$195,000** be appropriated for the purpose of funding the Design of the Prince Cove Improvements Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$56,000** be transferred from the remaining balance in Town Council order 2016-109, and that **\$139,000** be provided from the Marina Enterprise Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-075 APPROPRIATION ORDER

General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$172,000** be appropriated for the purpose of funding the Design and Permitting of the Barnstable Harbor Marina Revetment Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$172,000** be provided from the General Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-076 APPROPRIATION AND LOAN ORDER

General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$496,000** be appropriated for the purpose of funding the Scudder's Lane Boat Ramp Reconstruction Project as outlined in the FY 2025 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$496,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-077 APPROPRIATION ORDER

General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$90,000** be appropriated for the purpose of funding the Little River Fish Passage Restoration Evaluation Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of

costs incidental or related thereto; and that to meet this appropriation, that **\$90,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-078 APPROPRIATION ORDER
General Fund Capital improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$225,000** be appropriated for the purpose of funding the Rosa Lane Fish Passage Culvert Replacement Design Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$225,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-079 APPROPRIATION ORDER
General Fund Capital improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$125,000** be appropriated for the purpose of funding the Lake Elizabeth Fish Run, Dam and Culvert Replacement Design Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$125,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-080 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$295,000** be appropriated for the purpose of funding the McCarthy's Landing Dinghy Dock Construction Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$295,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-081 APPROPRIATION AND TRANSFER ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$100,000** be appropriated for the purpose of funding the Design and Permitting of the Cotuit Town Dock Improvements Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$58,570** be transferred from the remaining balance in Town Council order 2019-150 and that **\$41,430** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-082 APPROPRIATION AND TRANSFER ORDER
Solid Waste Enterprise Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$50,000** be appropriated for the purpose of funding the License Plate Reader Technology Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$14,681** be transferred from the remaining balance in Town Council order 2019-140, that **\$8,490** be transferred from the remaining balance in Town Council order 2020-125, and that **\$26,829** be provided from the Solid Waste Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-083 APPROPRIATION ORDER
Solid Waste Enterprise Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$50,000** be appropriated for the purpose of funding the Container Replacement Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$50,000** be provided from the Solid Waste Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-084 APPROPRIATION, TRANSFER AND LOAN ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,750,000** be appropriated for the purpose of funding the Pump Station Rehabilitation Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$134,000** be transferred from the remaining balance in Town Council order 2019-132, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,616,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-085 APPROPRIATION AND LOAN ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$4,500,000** be appropriated for the purpose of funding the Water Pollution Control Facility Improvements Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$4,500,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-086 APPROPRIATION AND LOAN ORDER
Water Pollution Control Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$800,000** be appropriated for the purpose of funding the Downtown Hyannis Force Main Rehabilitation Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$800,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-087 APPROPRIATION AND LOAN ORDER
Comprehensive Wastewater Management Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$30,900,000** be appropriated for the purpose of funding the Park City Wind Sewer Expansion Construction Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$30,900,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-088 APPROPRIATION ORDER
Comprehensive Wastewater Management Plan (Two-Thirds Vote Full Council)

ORDERED: That the amount of **\$1,500,000** be appropriated for the purpose of funding the Design and Permitting of the Old Craigville Road Sewer Expansion Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$1,500,000** be provided from the Capital Trust Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-089 APPROPRIATION ORDER
Comprehensive Wastewater Management Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$350,000** be appropriated for the purpose of funding the Preliminary Design and Survey of the Long Beach Sewer Expansion Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$350,000** be provided from the Sewer Construction and Private Way Improvement Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-090 APPROPRIATION ORDER
Comprehensive Wastewater Management Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$650,000** be appropriated for the purpose of funding the Final Design and Permitting of the Old Yarmouth Road Sewer Expansion Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$650,000** be provided from the Sewer Construction and Private Way Improvement Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-091 APPROPRIATION ORDER
Comprehensive Wastewater Management Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$150,000** be appropriated for the purpose of funding the Warren’s Cove Aquaculture Feasibility Study Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$150,000** be provided from the Sewer Construction and Private Way Improvement Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-092 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,500,000** be appropriated for the purpose of funding the Pipe Replacement and Upgrade Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,500,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-093 APPROPRIATION ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$200,000** be appropriated for the purpose of funding the Wells, Pump Stations, Treatment Plant Repair and Upgrade Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$200,000** be provided from the Water Supply Enterprise Fund reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-094 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$927,000** be appropriated for the purpose of funding the Mary Dunn 1 Water Storage Tank Rehabilitation Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$927,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-095 APPROPRIATION, TRANSFER AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$620,000** be appropriated for the purpose of funding the New Well Exploration Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$147,600** be transferred from the remaining balance in Town Council order 2017-080, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$472,400** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-096 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,000,000** be appropriated for the purpose of funding the Mary Dunn 4 Well Building Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,000,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-097 APPROPRIATION AND LOAN ORDER

Water Supply Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$3,000,000** be appropriated for the purpose of funding the Mary Dunn Road Water Main Replacement Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$3,000,000** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-098 APPROPRIATION ORDER

General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$185,235** be appropriated for the purpose of funding the Town Hall Roof Analysis and Repair Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$185,235** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-099 APPROPRIATION AND LOAN ORDER

General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,141,929** be appropriated for the purpose of funding the School Administration Building Mechanical Cooling Upgrades Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,141,929** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-100 APPROPRIATION AND LOAN ORDER

Hyannis Youth and Community Center Enterprise Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,752,400** be appropriated for the purpose of funding the Hyannis Youth & Community Center Mechanicals Improvements Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,752,400** under and pursuant to M.G.L. c. 44, §7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-101 APPROPRIATION AND TRANSFER ORDER

General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$400,000** be appropriated for the purpose of funding the Department of Public Works Office Administration Building Expansion Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$373,320** be transferred from the remaining balance in Town Council order 2021-097 and that **\$26,680** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-102 APPROPRIATION ORDER

General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$3,750,000** be appropriated for the purpose of funding the Public Roads Maintenance Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$3,750,000** be provided from the Capital Trust Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-103 APPROPRIATION AND TRANSFER ORDER

General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$270,000** be appropriated for the purpose of funding the Monitoring and Management Plan for Freshwater Ponds Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$105,440** be transferred from the remaining balance in Town Council order 2013-114 and that **\$164,560** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-104 APPROPRIATION ORDER

General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$195,000** be appropriated for the purpose of funding the Mystic Lake Alum Treatment Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$195,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-105 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$95,000** be appropriated for the purpose of funding the Municipal Separate Storm Sewer System (MS4) Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$95,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-106 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$175,000** be appropriated for the purpose of funding the Raised Crosswalks in Cotuit Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$175,000** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-107 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$131,500** be appropriated for the purpose of funding the Design of the Hawes Ave. Culvert Reconstruction Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$131,500** be provided from the General Fund Reserves, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-108 APPROPRIATION AND TRANSFER ORDER
Golf Enterprise Fund (Majority Vote Full Council)

ORDERED: That the amount of **\$492,270** be appropriated for the purpose of funding the Hyannis Golf Course Turf Maintenance Equipment Replacement Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$9,335** be transferred from the remaining funds in Town Council order 2021-096 and that **\$482,935** be provided from the Golf Enterprise Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-109 APPROPRIATION ORDER
Golf Enterprise Fund (Majority Vote Full Council)

ORDERED: That the amount of **\$82,561** be appropriated for the purpose of funding the Olde Barnstable Fairgrounds Irrigation Sprinkler Replacement Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$82,561** be provided from the Golf Enterprise Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-110 APPROPRIATION ORDER
Golf Enterprise Fund (Majority Vote Full Council)

ORDERED: That the amount of **\$161,757** be appropriated for the purpose of funding the Olde Barnstable Fairgrounds Cart Barn Roof Replacement Project as outlined in the FY 2024- FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$161,757** be provided from the Golf Enterprise Fund surplus, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes.

2023-111 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$400,000** be appropriated for the purpose of funding the Cobb Astro Park Exterior Insulation Finish System (EIFS) Replacement project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$400,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-112 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,000,000** be appropriated for the purpose of funding the Campus-wide Door and Window Replacement project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,000,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-113 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$350,000** be appropriated for the purpose of funding the Campus-wide Paving and Sidewalk Repair Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to fund this appropriation that **\$350,000** be provided from the General Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-114 APPROPRIATION AND LOAN ORDER
General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$500,000** be appropriated for the purpose of funding the Barnstable High School Culinary Arts Kitchen Improvements project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the

payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$500,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-115 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$250,000** be appropriated for the purpose of funding the Campus-wide Mechanical Upgrades Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to fund this appropriation that **\$250,000** be provided from the General Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-116 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$250,000** be appropriated for the purpose of funding the Knight Hall Chiller Replacement Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$250,000** be provided from the General Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-117 APPROPRIATION ORDER
General Fund Capital Improvement Plan (Majority Vote Full Council)

ORDERED: That the amount of **\$1,000,000** be appropriated for the purpose of funding the Barnstable High School Phase II Softball Field Upgrade Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$1,000,000** be provided from the General Fund Reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-118 APPROPRIATION AND TRANSFER ORDER
General Fund Capital Improvement Plan (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$750,000** be appropriated for the purpose of funding the West Villages Elementary Carpet Removal project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$441,549** be transferred from the remaining available balance in Town Council order 2019-101, and that **\$239,605** be transferred from the remaining available balance in Town Council order 2019-102, and that **\$68,846** be provided from the General Fund reserves; and that the Barnstable School Committee is authorized to contract for and expend the appropriation made available for these purposes.

2023-119 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,015,864** be appropriated for the purpose of funding the HVAC Upgrades to the Airport Terminal and Tower Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$50,793** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$965,071** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-120 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$525,000** be appropriated for the purpose of funding the Master Plan Updates Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$26,250** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$498,750** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-121 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$689,000** be appropriated for the purpose of funding the Security Camera Upgrades Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$34,450** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$654,550** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-122 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$383,000** be appropriated for the purpose of funding the Replacement of Snow Removal Equipment Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$19,150** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$363,850** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be

borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-123 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$1,120,580** be appropriated for the purpose of funding the Snow Removal Equipment Storage Facility Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,120,580** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-124 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$505,000** be appropriated for the purpose of funding the Electric Aircraft Support Vehicle and charging Station Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$25,250** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$479,750** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

2023-125 APPROPRIATION AND LOAN ORDER
Airport Enterprise Fund (Two-thirds Vote Full Council)

ORDERED: That the amount of **\$355,000** be appropriated for the purpose of funding the Jet A Fuel Storage Tank Project as outlined in the FY 2024 - FY 2028 Capital Improvement Plan, including the payment of costs incidental or related thereto; and that to meet this appropriation, that **\$71,000** be provided from the Airport Enterprise Fund surplus, and that the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$284,000** under and pursuant to M.G.L. c. 44, §§7 or 8, or pursuant to any other enabling authority, and to issue bonds or notes of the Town therefor; and that in accordance with M.G.L. c. 44, §20, any premium received by the Town upon the sale of any bonds or notes authorized by this order, less any such premium applied to the payment of the costs of issuance of such bonds and notes, may be applied to pay such project costs, thereby reducing the amount authorized to be borrowed by this order by a like amount; and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and to accept any gifts or grants in relation thereto.

**APPENDIX B - DEBT AMORTIZATION SCHEDULES AS OF JUNE
30, 2022**

GENERAL FUND OUSTANDING BONDS

SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF Advance Refund 6/15/2003 School Remodel II	04/18/12	09/15/22	193,400	15,300	-	-	-	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 School Remodel I	04/18/12	09/15/22	242,700	20,196	-	-	-	-	-	-	-	-	-
CTF School Roof Repairs	11/22/13	11/15/23	600,000	62,250	60,750	-	-	-	-	-	-	-	-
CTF HS Library AC Units	11/22/13	11/15/23	450,000	46,688	45,563	-	-	-	-	-	-	-	-
CTF School Fire & Communications System	11/22/13	11/15/23	200,000	20,750	20,250	-	-	-	-	-	-	-	-
CTF School Computer Network Infrastructure	11/22/13	11/15/23	189,000	15,563	15,188	-	-	-	-	-	-	-	-
CTF Early Learning Center Modular Facility	02/17/15	02/15/35	2,000,000	141,125	137,125	133,125	129,125	126,125	123,125	120,625	118,000	115,000	112,000
CTF School Health & Safety Improvements \$478,000 Refunded	02/17/15	02/15/26	193,400	21,740	19,980	19,260	18,540	-	-	-	-	-	-
CTF MME Roof Replacement (I) \$750,000 Refunded	02/17/15	02/15/26	329,800	43,240	40,720	34,240	32,960	-	-	-	-	-	-
CTF School Upgrades 2 (I) \$150,000 Refunded	02/17/15	02/15/27	47,400	5,820	5,620	4,920	4,240	4,120	-	-	-	-	-
CTF BHMCPs Roof (I) \$910,000 Refunded	02/17/15	02/15/27	426,900	50,610	48,890	46,170	44,490	42,230	-	-	-	-	-
CTF Elementary School Modular Classroom (#2015-115)	02/25/16	06/30/36	3,720,000	265,706	258,306	250,906	243,506	236,106	232,406	227,781	223,850	218,300	212,750
CTF BIS Façade & Roof Improvements (#2015-116)	02/25/16	06/30/36	3,353,000	242,781	235,981	229,181	222,381	210,581	207,281	203,156	199,650	194,700	189,750
CTF BCHMCPs Façade & Roof Improvements (#2015-117)	02/25/16	06/30/26	260,000	29,000	28,000	27,000	26,000	-	-	-	-	-	-
CTF High School & Middle School Boiler Upgrades (#2015-119)	02/25/16	06/30/26	350,000	40,600	39,200	37,800	36,400	-	-	-	-	-	-
CTF W Village Elementary A/C Replacement (#2015-120)	02/25/16	06/30/26	250,000	29,000	28,000	27,000	26,000	-	-	-	-	-	-
CTF School Facility Improvements 1 (I) \$916,600 Refunded	06/21/16	06/30/28	295,700	34,800	33,600	32,400	31,800	31,200	30,600	-	-	-	-
CTF School Parking Lot Light Pole Replacement (I) (#2016-082)	02/23/17	06/30/27	435,000	53,400	51,600	44,800	43,200	41,600	-	-	-	-	-
CTF School Unit Ventilator Upgrade (I) (#2016-083)	02/23/17	06/30/27	230,000	29,200	23,200	22,400	21,600	20,800	-	-	-	-	-
CTF Horace Mann Roof (I) (#2016-081)	02/27/18	06/30/38	2,350,000	191,119	187,519	181,519	175,519	169,519	163,519	152,519	147,919	143,319	139,869
CTF Barnstable Public Schools Unit Ventilator (I) (#2017-062)	02/27/18	06/30/28	225,000	30,750	25,000	24,000	23,000	22,000	21,000	-	-	-	-
CTF Barnstable High School Learning Center (I) (#2017-063)	02/27/18	06/30/38	2,968,500	239,856	235,356	227,856	220,356	212,856	205,356	197,856	191,856	185,856	176,356
CTF Barnstable Public Schools Asbestos Abatement (I) (#2017-066)	02/27/18	06/30/28	270,000	32,000	31,250	30,000	28,750	27,500	26,250	-	-	-	-
CTF Barnstable High School Stadium Bleachers (I) (#2017-067)	02/27/18	06/30/33	966,000	93,950	92,000	88,750	85,500	82,250	79,000	75,750	73,150	70,550	63,600
CTF Barnstable High School Cafeteria Window (I) (#2017-068)	02/27/18	06/30/38	400,000	32,125	31,525	30,525	29,525	28,525	27,525	26,525	25,725	24,925	24,325
CTF Hyannis West Elementary School Roof Truss System (2019-058)	02/26/19	06/30/39	850,000	73,800	71,550	69,300	67,050	64,800	62,550	60,300	53,050	51,050	49,850
CTF Barnstable High School Sports Field Upgrade (#2018-064)	02/26/19	06/30/34	4,600,000	469,100	453,600	433,100	417,850	402,600	387,350	372,100	356,850	341,600	332,450
CTF Barnstable High School Engineering Phase 2 Sports Field (#2019-093)	02/25/20	06/30/25	144,000	34,250	32,750	26,250	-	-	-	-	-	-	-
CTF Barnstable Public Schools Mechanical Upgrades (#2019-096)	02/25/20	06/30/40	250,000	23,225	22,475	21,725	20,975	20,225	19,475	18,725	17,975	12,375	12,075
CTF Barnstable Public Schools Environmental Lab (#2019-097)	02/25/20	06/30/40	222,000	21,775	21,025	15,275	14,775	14,275	13,775	13,275	12,775	12,375	12,075
CTF BPS & BIS Roof Top Ventilators (#2019-098)	02/25/20	06/30/40	1,500,000	122,063	118,313	114,563	110,813	107,063	103,313	99,563	95,813	92,813	90,563
CTF Centerville Elementary Ventilator (#2019-099)	02/25/20	06/30/40	500,000	40,688	39,438	38,188	36,938	35,688	34,438	33,188	31,938	30,938	30,188
CTF Hyannis West Elementary School Roof (#2019-101)	02/25/20	06/30/40	450,000	39,500	38,250	37,000	35,750	34,500	33,250	32,000	30,750	24,750	24,150
CTF Centerville Elementary Roof (#2019-102)	02/25/20	06/30/40	250,000	23,225	22,475	21,725	20,975	20,225	19,475	18,725	17,975	12,375	12,075
CTF Barnstable High School Sports Field Upgrades (#2019-211)	02/25/20	06/30/35	1,100,000	113,350	109,600	105,850	102,100	98,350	94,600	90,850	87,100	79,100	77,000
CTF School Building Improvements Refi 6/15/10	03/15/21	06/30/30	337,450	51,525	50,200	48,850	46,975	45,600	43,700	41,800	39,900	-	-
CTF School Improvement (I) Refi 6/15/11	03/15/21	06/30/26	133,250	31,825	30,500	29,175	28,350	-	-	-	-	-	-
CTF School Facilities Upgrades/Repairs II Refi 6/15/11	03/15/21	06/30/26	44,400	10,275	10,350	9,900	9,450	-	-	-	-	-	-
CTF School Facilities Upgrades/Repairs III Refi 6/15/11	03/15/21	06/30/26	44,400	10,275	10,350	9,900	9,450	-	-	-	-	-	-
CTF School Facilities Upgrades/Repairs V (I) Refi 6/15/11	03/15/21	06/30/31	358,750	52,690	50,840	49,490	48,115	46,215	39,315	37,665	36,515	34,840	-
CTF School District-Wide Communication, Surveillance, and Entry Improvement	03/15/21	06/30/26	404,500	96,000	92,000	88,000	84,000	-	-	-	-	-	-
CTF Elementary School HVAC Chiller Replacement (#2020-084)	03/15/21	06/30/41	400,000	33,000	32,000	31,000	30,000	29,000	28,000	27,000	26,000	25,000	24,200
CTF BHS and BIS Rooftop Ventilator Replacement (I) (#2021-084)	03/15/22	03/15/42	3,205,000	291,650	278,400	270,400	262,400	256,000	248,000	240,000	232,000	224,000	216,000
Total Schools Interest & Principal				3,325,784	3,178,738	2,911,543	2,788,858	2,429,953	2,243,303	2,089,403	2,018,790	1,893,865	1,799,275

LAND ACQUISITION INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF Land Acquisition (I) - Hyannis Golf Course \$748,000 Refunded	02/17/15	02/15/26	325,200	43,040	35,520	34,240	32,960	-	-	-	-	-	-
CTF Land Acquisition - CAP \$365,200 Refunded	06/21/16	06/30/23	115,000	21,840	-	-	-	-	-	-	-	-	-
Total Land Acquisition Interest & Principal				64,880	35,520	34,240	32,960						
PUBLIC WAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF Advance Refund 6/15/2003 Drainage 1 (i)	04/18/12	09/15/22	193,200	15,504	-	-	-	-	-	-	-	-	-
CTF Private Road Repairs (I) \$633,000	11/22/13	11/15/23	633,000	62,250	60,750	-	-	-	-	-	-	-	-
CTF Sidewalk Overlays	11/22/13	11/15/23	190,000	15,563	15,188	-	-	-	-	-	-	-	-
CTF Bumps River Bridge Repair	11/22/13	11/15/23	120,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF Guardrail Improvements (#2015-098)	02/25/16	06/30/36	170,000	17,400	16,800	16,200	15,600	-	-	-	-	-	-
CTF Sidewalk Improvements (#2015-098)	02/25/16	06/30/36	230,000	23,200	22,400	21,600	20,800	-	-	-	-	-	-
CTF Road Repairs (#2015-102)	02/25/16	06/30/31	518,000	44,719	43,319	41,919	40,519	39,119	38,419	37,544	31,800	30,900	-
CTF Road Repairs - Governor's Way (#2016-037)	02/25/16	06/30/31	304,000	25,725	24,925	24,125	23,325	22,525	22,125	21,625	21,200	20,600	-
CTF Private Road Repairs \$1,607,900	06/21/16	06/30/23	509,000	104,000	-	-	-	-	-	-	-	-	-
CTF Private Roads Repairs (I) \$167,300	02/23/17	06/30/31	167,300	13,400	13,000	12,600	12,200	11,800	11,400	11,000	10,600	10,300	-
CTF Guardrail & Sidewalk Improvement Program (I) (#2016-103)	02/23/17	06/30/32	680,750	61,650	59,850	58,050	56,250	54,450	52,650	50,850	49,050	47,700	46,350
CTF Guardrail & Sidewalk (I) (#2017-073)	02/27/18	06/30/33	287,000	28,550	27,950	26,950	25,950	24,950	23,950	22,950	22,150	16,350	15,900
CTF Sidewalk Improvements (#2019-125)	02/25/20	06/30/35	314,000	30,400	29,400	28,400	27,400	26,400	25,400	24,400	23,400	22,600	22,000
CTF Crosswalk Improvements (#2019-128)	02/25/20	06/30/35	113,100	13,850	13,350	12,850	12,350	11,850	6,350	6,100	5,850	5,650	5,500
CTF Baxter's Neck Road - Private Way Refi 6/15/11	03/15/21	06/30/26	138,338	21,050	20,175	19,800	18,900	-	-	-	-	-	-
CTF Bumps River Bridge Repair (#2019-124)	03/15/21	06/30/41	900,000	74,250	72,000	69,750	67,500	65,250	63,000	60,750	58,500	56,250	54,450
CTF Public Bridge Maintenance and Repairs (I) (#2021-111)	03/15/22	03/15/32	500,000	74,000	71,500	69,000	66,500	64,500	62,000	59,500	57,000	54,500	52,000
CTF Emergency Generator Implementation Plan (I) (#2021-112)	03/15/22	03/15/32	615,250	94,813	91,300	88,050	79,800	77,400	74,400	71,400	68,400	65,400	62,400
Total Public Ways Interest & Principal				730,698	592,031	489,294	467,094	398,244	379,694	366,119	347,950	330,250	258,600

PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF Advance Refund 6/15/2003 Building Improvements	04/18/12	09/15/22	96,600	6,732	-	-	-	-	-	-	-	-	-
CTF Advance Refund 6/15/2003 Police Facility Addition	04/18/12	09/15/22	626,900	61,200	-	-	-	-	-	-	-	-	-
CTF Tennis Courts	11/22/13	11/15/23	500,000	51,875	50,625	-	-	-	-	-	-	-	-
CTF US Custom House upgrades	11/22/13	11/15/23	263,000	25,938	25,313	-	-	-	-	-	-	-	-
CTF Osterville Community Building Upgrades	11/22/13	11/15/23	200,000	20,750	20,250	-	-	-	-	-	-	-	-
CTF Police Station Upgrades	11/22/13	11/15/23	168,000	15,563	15,188	-	-	-	-	-	-	-	-
CTF Town Hall Interior Upgrades	11/22/13	11/15/23	150,000	15,563	15,188	-	-	-	-	-	-	-	-
CTF Guyer Barn Upgrades	11/22/13	11/15/23	148,000	15,438	10,125	-	-	-	-	-	-	-	-
CTF MEA Facility Upgrades	11/22/13	11/15/23	131,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF Pearl St Building Upgrades	11/22/13	11/15/23	114,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF S&G Facility Roof Repairs	11/22/13	11/15/23	103,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF West Barnstable Community Building Upgrades	11/22/13	11/15/23	72,000	5,188	5,063	-	-	-	-	-	-	-	-
CTF Highway Operations Facility Construction	11/22/13	11/15/23	66,000	5,188	5,063	-	-	-	-	-	-	-	-
CTF Centerville Recreation Building	02/17/15	02/15/35	185,000	13,663	13,263	12,863	12,463	12,163	11,863	11,613	11,350	11,050	10,750
CTF Senior Center - Parking Lot Expansion	02/17/15	02/15/30	290,000	24,925	24,125	23,325	22,525	21,925	21,325	20,825	10,300	-	-
CTF Police Facilities	02/17/15	02/15/35	288,000	20,719	20,119	19,519	18,919	18,469	18,019	17,644	17,250	16,800	16,350
CTF Police Station Construction (I) \$400,000 Adv Refunded 6-15-05	02/17/15	02/15/25	181,650	20,160	19,440	18,720	-	-	-	-	-	-	-
CTF Senior Center - Garden Level \$457,000 Refunded	02/17/15	02/15/27	195,000	22,420	21,660	20,900	20,140	19,570	-	-	-	-	-
CTF Town Building Repairs & Renovations \$685,000 Refunded	02/17/15	02/15/27	317,600	38,410	37,090	30,770	29,650	27,810	-	-	-	-	-
CTF Bismore Park Visitor Center - CAP \$150,000	06/21/16	06/30/23	48,000	10,400	-	-	-	-	-	-	-	-	-
CTF Bismore Park Visitor Center \$465,000 Refunded	06/21/16	06/30/23	147,500	29,120	-	-	-	-	-	-	-	-	-
CTF Municipal Building Improvements \$297,000 Refunded	06/21/16	06/30/28	49,300	5,800	5,600	5,400	5,300	5,200	5,100	-	-	-	-
CTF Police Station Remodeling (#2015-100)	02/25/16	06/30/36	355,000	27,444	26,644	25,844	25,044	24,244	18,844	18,469	18,150	17,700	17,250
CTF Town Hall Remodeling (#2015-101)	02/25/16	06/30/36	939,000	69,831	62,831	61,031	59,231	57,431	56,531	55,406	54,450	53,100	51,750
CTF Joshua's Pond Recreational Facility (#2015-111)	02/25/16	06/30/31	282,000	25,194	24,394	23,594	22,794	21,994	16,594	16,219	15,900	15,450	-
CTF Craigville Beach Bathhouse (#2016-031)	02/25/16	06/30/36	450,000	34,525	33,525	32,525	31,525	25,525	25,125	24,625	24,200	23,600	23,000
CTF Beach Facility Improvement (I) (#2016-110)	02/23/17	06/30/27	438,000	53,400	51,600	44,800	43,200	41,600	-	-	-	-	-
CTF Osterville Bay Elem School Improvements (I) (#2016-112)	02/23/17	06/30/37	724,300	53,594	52,194	50,794	49,394	47,994	46,594	45,194	43,794	42,744	41,694
CTF Lombard Field Improvements (I) (#2016-113)	02/23/17	06/30/37	895,000	68,738	66,938	65,138	63,338	61,538	59,738	57,938	56,138	54,788	53,438
CTF West Barnstable Shooting Range (I) (#2017-074)	02/27/18	06/30/28	314,000	38,400	37,500	36,000	34,500	33,000	31,500	-	-	-	-
CTF Design and Hazmat Removal Project Armory Building (2018-096)	02/26/19	06/30/24	461,750	99,000	94,500	-	-	-	-	-	-	-	-
CTF Senior Center Renovations (#2018-076)	02/26/19	06/30/39	659,000	57,288	55,538	53,788	52,038	50,288	48,538	46,788	45,038	38,288	37,388
CTF Osterville Recreation Building Design & Construction (#2017-086)	02/26/19	06/30/39	675,000	57,888	56,138	54,388	52,638	50,888	49,138	47,388	45,638	43,888	42,838
CTF Town Hall Restroom Renovations	02/26/19	06/30/39	560,000	49,056	47,556	46,056	44,556	43,056	41,556	40,056	38,556	37,056	31,156
CTF Former Marston Mills Elementary School Demo (2018-094)	02/26/19	06/30/24	176,050	38,500	36,750	-	-	-	-	-	-	-	-
CTF School Administration Building (#2018-092)	02/26/19	06/30/24	285,000	60,500	57,750	-	-	-	-	-	-	-	-
CTF School Administration Building Remodeling (#2019-148)	02/25/20	06/30/40	996,000	81,263	78,763	76,263	73,763	71,263	68,763	66,263	63,763	61,763	60,263
CTF Craigville Bath House (#2019-116)	02/25/20	06/30/40	255,000	23,375	22,625	21,875	21,125	20,375	19,625	18,875	18,125	17,525	12,075
CTF Craigville Parking Lot (#2019-116)	02/25/20	06/30/35	160,000	15,200	14,700	14,200	13,700	13,200	12,700	12,200	11,700	11,300	11,000
CTF Marston Mills Tennis Courts (#2019-117)	02/25/20	06/30/35	620,000	66,300	64,050	56,800	54,800	52,800	50,800	48,800	46,800	45,200	44,000
CTF Public Bridge Improvements and Repairs (#2019-122)	02/25/20	06/30/40	500,000	40,688	39,438	38,188	36,938	35,688	34,438	33,188	31,938	30,938	30,188
CTF Police Facility Refi 6/15/10	03/15/21	06/30/30	187,450	28,850	27,825	26,800	26,275	25,225	24,175	23,125	22,575	-	-
CTF Municipal Facility Improvements Refi 6/15/10	03/15/21	06/30/29	33,750	5,475	5,275	5,075	4,875	5,175	4,950	4,725	-	-	-
CTF Town Hall Security Improvements (#2019-129)	03/15/21	06/30/41	480,000	40,850	39,600	38,350	37,100	35,850	34,600	33,350	32,100	30,850	29,850
CTF Osterville Field Construction & Site Improvement (#2019-146)	03/15/21	06/30/36	705,600	75,750	73,250	70,750	68,250	60,750	58,500	56,250	54,000	51,750	49,950
CTF 200 Main Street Mansard Evaluation & Repair (#2020-106)	03/15/21	06/30/41	374,000	32,400	31,400	30,400	29,400	28,400	27,400	26,400	25,400	24,400	23,600
CTF Salt Storage Facility Design & Construction (#2020-107)	03/15/21	06/30/41	345,000	31,750	30,750	29,750	28,750	27,750	26,750	25,750	24,750	18,750	18,150
CTF Police Facility Improvements (I) (#2021-098)	03/15/22	03/15/42	806,432	78,354	69,600	67,600	65,600	64,000	62,000	60,000	58,000	56,000	54,000
CTF Police Site Security Fence (I) (#2021-099)	03/15/22	03/15/42	340,032	33,834	32,800	31,800	30,800	30,000	29,000	28,000	27,000	21,000	20,250
CTF Marston Mills School Demolition (I) (#2021-113)	03/15/22	03/15/27	360,011	87,262	78,750	85,500	81,750	78,750	-	-	-	-	-
CTF Town Hall Mechanical Improvements (I) (#2021-114)	03/15/22	03/15/42	1,908,596	179,076	165,300	160,550	155,800	152,000	147,250	142,500	137,750	133,000	128,250
Total Public Facilities Interest & Principal				1,993,954	1,796,465	1,379,353	1,316,178	1,263,918	1,051,413	981,588	934,663	856,938	807,188

WATERWAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF East Bay Dredging	11/22/13	11/15/23	600,000	62,250	60,750	-	-	-	-	-	-	-	-
CTF Hyannis Harbor Bulkhead Construction	11/22/13	11/15/23	142,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF Millway Boat Ramp & Dock Upgrades	11/22/13	11/15/23	133,000	10,375	10,125	-	-	-	-	-	-	-	-
CTF Marstons Mills Fish Run Reconstruction	02/17/15	02/15/30	326,000	25,225	24,425	23,625	22,825	22,225	21,625	21,125	20,600	-	-
CTF Pleasant St. Dock - 1 \$350,000 Refunded	06/21/16	06/30/23	109,500	21,840	-	-	-	-	-	-	-	-	-
CTF Pleasant St. Dock - 2 \$350,000 Refunded	06/21/16	06/30/23	110,000	21,840	-	-	-	-	-	-	-	-	-
CTF Boat Ramps - CAP \$927,000 Refunded	06/21/16	06/30/23	290,000	57,200	-	-	-	-	-	-	-	-	-
CTF Paving: Bay Street Boat Ramp (#2015-099)	02/25/16	06/30/26	142,000	17,000	16,400	10,800	10,400	-	-	-	-	-	-
CTF Channel Dredging- Barnstable Harbor (#2016-035)	02/25/16	06/30/26	490,000	57,600	55,600	48,600	46,800	-	-	-	-	-	-
CTF Blish Point Boat Access Channel Dredging (I) (#2016-111)	02/23/17	06/30/37	943,900	74,506	72,506	70,506	63,506	61,706	59,906	58,106	56,306	54,956	53,606
CTF Dredging Refi 6/15/10	03/15/21	06/30/24	78,800	30,550	24,150	-	-	-	-	-	-	-	-
CTF Prince Cove/Hayward Rd. Boat Ramp Refi 6/15/11	03/15/21	06/30/26	177,650	42,100	40,850	39,075	37,800	-	-	-	-	-	-
CTF Channel Dredging - (#2019-119)	03/15/21	06/30/41	406,000	33,000	32,000	31,000	30,000	29,000	28,000	27,000	26,000	25,000	24,200
CTF Patrol Vessel Replacement (I) (#2021-103)	03/15/22	03/15/32	310,000	49,900	48,150	41,400	39,900	38,700	37,200	35,700	34,200	32,700	31,200
Total Waterways Interest & Principal				513,761	395,081	265,006	251,231	151,631	146,731	141,931	137,106	112,656	109,006
WATER QUALITY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
CTF Advance Refund 6/15/2003 Drainage 2 (i)	04/18/12	09/15/22	96,700	6,834	-	-	-	-	-	-	-	-	-
CTF Water Quality Evaluation	11/22/13	11/15/23	230,000	20,750	20,250	-	-	-	-	-	-	-	-
CTF Hamblin Pond Alum Treatment (#2015-112)	02/25/16	06/30/31	300,000	25,725	24,925	24,125	23,325	22,525	22,125	21,625	21,200	20,600	-
CTF Lake Treatment Refi 6/15/10	03/15/21	06/30/25	54,350	15,550	14,875	14,700	-	-	-	-	-	-	-
CTF Stormwater Improvements - Impaired Ponds (#2020-110)	03/15/21	06/30/41	300,000	24,750	24,000	23,250	22,500	21,750	21,000	20,250	19,500	18,750	18,150
CTF Stormwater Improvements - Impaired Ponds (#2021-110)	03/15/22	03/15/32	325,000	50,600	48,850	47,100	45,350	43,950	37,200	35,700	34,200	32,700	31,200
Total Water Quality Interest & Principal				144,209	132,900	109,175	91,175	88,225	80,325	77,575	74,900	72,050	49,350
TOTAL GENERAL FUND BOND OBLIGATIONS				6,773,286	6,130,735	5,188,610	4,947,495	4,331,970	3,901,465	3,656,615	3,513,409	3,265,759	3,023,419

AIRPORT INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Airport Terminal Ramp Construction - Phase 2 (O) (#2013-0101)	02/23/17	06/30/37	428,000	32,413	31,613	30,813	30,013	29,213	28,413	27,613	26,813	26,013	25,213
Airport New Fuel Farm (I) (#2013-102)	02/23/17	06/30/36	634,500	47,875	46,675	45,475	44,275	43,075	41,875	40,675	39,475	38,275	37,075
Airport East Ramp Design & Construction (O) (#2014-053)	02/23/17	06/30/37	641,200	43,169	42,169	41,169	40,169	39,169	38,169	37,169	36,169	35,169	34,169
Runway Reconstruction & Generator Replacement	02/26/19	06/30/39	355,500	32,144	31,144	30,144	29,144	28,144	27,144	26,144	25,144	24,144	23,144
Airfield Improvements	02/26/19	06/30/31	59,700	7,150	6,900	6,650	6,400	6,150	5,900	5,650	5,400	5,150	4,900
Total Airport Fund Bonds				162,750	163,500	159,050	154,600	155,150	150,500	155,850	150,800	146,700	138,100
GOLF COURSE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Hyannis Golf Course Acquisition \$3,900,000 Refunded	02/17/15	02/15/25	1,951,500	288,200	291,960	290,160	-	-	-	-	-	-	-
Olde Barnstable Building Improvements (#2015-105)	02/25/16	06/30/26	174,000	23,200	22,400	21,600	20,800	-	-	-	-	-	-
Hyannis Building Improvements (#2015-106)	02/25/16	06/30/26	140,000	17,400	16,800	16,200	15,600	-	-	-	-	-	-
Olde Barnstable Fairgrounds Golf Course (I) (#2016-107)	02/23/17	06/30/37	245,000	21,113	20,513	19,913	19,313	13,713	13,313	12,913	12,513	12,213	11,913
Hyannis Golf Course Improvements (I) (#2016-108)	02/23/17	06/30/37	292,700	22,475	21,875	21,275	20,675	20,075	19,475	18,875	18,275	17,875	17,375
Hyannis Golf Course Turf Maintenance (I) (#2017-085)	02/27/18	06/30/23	310,000	61,800	-	-	-	-	-	-	-	-	-
Olde Barnstable Turf Maintenance Equipment Replacement (I) (#2021-096)	03/15/22	03/15/32	467,179	69,688	65,150	52,900	51,150	49,750	68,000	65,250	62,500	59,750	52,000
Total Golf Course				503,875	438,698	422,048	127,538	83,538	100,788	97,038	93,288	89,788	81,288
WATER POLLUTION CONTROL INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	30,750	-	-	-	-	-	-	-	-	-
Shallow Well Injection - CW-00-60 - Pool 8 (Subsidy)	08/25/04	08/01/22	(subsidy)	(9,028)	-	-	-	-	-	-	-	-	-
Sewer 98-44A	07/14/06	08/01/23	1,582,178	120,681	115,000	-	-	-	-	-	-	-	-
Sewer 98-44A (Subsidy)	07/14/06	08/01/23	(subsidy)	(38,360)	(34,430)	-	-	-	-	-	-	-	-
Sewer 98-49A	12/14/06	08/01/23	556,458	41,976	40,000	-	-	-	-	-	-	-	-
Sewer 98-49A (Subsidy)	12/14/06	08/01/23	(subsidy)	(13,463)	(12,096)	-	-	-	-	-	-	-	-
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	326,668	326,668	326,668	326,668	326,668	326,668	-	-	-	-
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	41,636	41,637	41,637	41,637	41,636	41,637	41,636	-	-	-
Sewer CW-04-35A Pool 13	06/06/12	07/15/27	1,469,137	107,259	107,247	107,234	107,221	107,207	107,193	-	-	-	-
Rehab Clarifiers (#2015-091)	06/21/16	06/30/28	251,000	26,080	33,200	27,000	26,500	26,000	25,500	-	-	-	-
Pump Station/Sewer Main Const (#2009-132)	02/25/16	06/30/36	1,000,000	71,813	69,813	67,813	65,813	63,813	62,813	61,563	60,500	59,000	57,500
Wastewater Treatment Plant Clarifiers Rehab (O) (#2016-097)	02/23/17	06/30/37	1,146,000	90,019	87,619	85,219	82,819	75,419	73,219	71,019	68,819	67,169	65,519
Wastewater Treatment Plant Backup Generator (O) (#2016-098)	02/23/17	06/30/37	862,000	67,650	65,850	64,050	62,250	60,450	58,650	56,850	50,050	48,850	47,650
Sewer System Evaluation Surveys (#2019-131)	02/25/20	06/30/25	343,500	80,250	76,750	68,250	-	-	-	-	-	-	-
Rendezvous Lane Pump Station Replacement (#2019-132)	03/15/21	06/30/41	1,160,000	98,200	95,200	92,200	89,200	86,200	83,200	80,200	77,200	74,200	71,800
Pump Station Rehabilitation (#2020-175)	03/15/21	06/30/29	40,300	6,750	6,500	6,250	6,000	5,750	5,500	5,250	-	-	-
720 Main Street Sewer Pump Station Replacement (#2021-125)	03/15/22	03/15/26	23,500	9,625	5,700	5,450	5,200	-	-	-	-	-	-
Total Water Pollution Control Enterprise Fund				1,058,505	1,024,657	891,769	813,307	793,143	784,379	316,518	256,569	249,219	242,469
SOLID WASTE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Advance Refund 6/15/2003 Transfer Station Improvements	04/18/12	09/15/22	241,500	20,910	-	-	-	-	-	-	-	-	-
Solid Waste Facility (I) \$630,000 Refunded	02/17/15	02/15/27	284,900	33,040	31,920	30,800	29,680	28,840	-	-	-	-	-
Total Solid Waste Fund				53,950	31,920	30,800	29,680	28,840	-	-	-	-	-

WATER SUPPLY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	169,184	169,184	169,185	169,184	169,184	169,184	169,184	169,184	169,184	-
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	34,285	34,332	34,382	34,431	34,482	34,534	34,587	34,641	34,698	34,754
Water Co. (Level Debt) (O) \$10,000,000 Refunded	02/17/15	02/15/27	5,704,800	692,070	691,870	689,750	692,750	692,160	-	-	-	-	-
Water Main Loop	02/17/15	02/15/35	540,000	40,538	39,338	38,138	36,938	36,038	35,138	34,388	23,600	23,000	22,400
DW-09-02 Series 16	05/14/15	07/15/32	533,117	35,213	35,256	35,300	35,346	35,391	35,439	35,487	35,536	35,586	35,637
DWP-11-09 Series 17A	05/14/15	01/15/33	793,438	52,831	52,904	52,980	53,057	53,135	53,215	53,298	53,381	53,466	53,553
Pipe Replacement Upgrade FY17 (#2015-085)	02/25/16	06/30/36	900,000	64,631	62,831	61,031	59,231	57,431	56,531	55,406	54,450	53,100	51,750
Hyannis Water System Pipe Replacement (O) (#2016-093)	02/23/17	06/30/37	858,400	67,450	65,650	63,850	62,050	60,250	58,450	51,650	50,050	48,850	47,650
DWP-14-09 Mass Clean Water Trust (#2014-071, 2013-085, 2013-088)	04/13/17	07/15/37	1,467,339	89,240	89,354	89,471	89,591	89,713	89,838	89,966	90,096	90,229	90,366
Well Reactivation (O) (#2017-080)	02/27/18	06/30/38	276,000	23,313	22,863	22,113	21,363	20,613	19,863	19,113	18,513	17,913	17,463
Water Pipe Replacement (O) (#2017-081)	02/27/18	06/30/38	468,000	39,075	38,325	37,075	35,825	34,575	33,325	32,075	31,075	30,075	24,325
Mary Dunn Water Storage Tank Site Work (O) (#2017-083)	02/27/18	06/30/38	600,500	48,188	47,288	45,788	44,288	42,788	41,288	39,788	38,588	37,388	36,488
Water Carbon Filter Units (O) (#2017-079)	02/27/18	06/30/18	440,000	57,100	55,750	53,500	51,250	44,000	42,000	-	-	-	-
Pipe Replacement Upgrade FY19 (#2018-081)	02/26/19	06/30/39	1,050,000	90,563	87,813	85,063	82,313	79,563	76,813	74,063	66,313	63,813	62,313
Carbon Treatment System Construction at Maher Wellfield (2017-099)	02/26/19	06/30/28	318,500	45,500	43,750	42,000	40,250	38,500	36,750	-	-	-	-
Well Exploration Program (2013-087)	02/26/19	06/30/28	489,500	71,000	68,250	65,500	62,750	55,000	52,500	-	-	-	-
MCWT Series 19 DWP-13-01 Reamortization	04/11/19	07/15/36	1,736,865	120,740	120,898	121,059	121,225	121,394	121,566	121,742	121,922	122,106	122,294
Water Pipe Replacement (#2019-135)	02/25/20	06/30/40	950,500	80,188	77,688	75,188	72,688	70,188	67,688	65,188	62,688	55,688	54,338
MCWT Bonds; Series 21 DWP-16-17 (#2014-073, 2016-146, 2016-163 & 2017-099)	09/25/20	06/30/39	2,428,471	159,306	159,479	159,656	159,837	160,021	160,209	160,403	160,599	160,800	161,006
New Well Exploration Program (#2018-083)	03/15/21	06/30/41	314,500	30,000	24,000	23,250	22,500	21,750	21,000	20,250	19,500	18,750	18,150
CTF 50% Water Infrastructure Construction (#2019-212)	03/15/21	06/30/41	1,000,000	82,500	80,000	77,500	75,000	72,500	70,000	67,500	65,000	62,500	60,500
Pipe Replacement & Upgrades (#2020-120)	03/15/21	06/30/41	750,000	64,950	62,950	60,950	58,950	56,950	54,950	52,950	50,950	48,950	42,350
MCWT DWP-18-10 (#2017-099, 2018-173)	05/11/21	01/15/46	9,754,852	505,248	505,776	506,318	506,872	507,439	508,019	508,614	509,223	509,846	510,484
MCWT DWP-19-28 (#2019-215)	05/11/21	01/15/41	2,642,303	130,437	130,632	130,828	131,025	131,221	131,418	131,616	131,813	132,011	132,209
Water Pipe Replacement and Upgrades (O) (#2021-119)	03/15/22	03/15/42	946,000	88,800	85,250	82,750	80,250	78,250	75,750	73,250	70,750	68,250	60,750
Total Water Enterprise Fund				2,882,347	2,851,431	2,822,621	2,798,961	2,762,534	2,045,466	1,890,515	1,857,870	1,836,200	1,638,776
MARINA INTEREST & PRINCIPAL													
Advance Refund 6/14/2004 Prince Cove Marina Acquisition	04/18/12	09/15/22	864,000	91,800	-	-	-	-	-	-	-	-	-
Gateway Marina Dredging (#2015-108)	02/25/16	06/30/26	280,000	29,000	28,000	27,000	26,000	-	-	-	-	-	-
Prince Cove Marina Bulkhead (#2015-109)	02/25/16	06/30/36	570,000	42,188	40,988	39,788	38,588	37,388	36,188	36,038	35,400	29,500	28,750
Gateway Marina Maintenance Dredging (I) (#2016-109)	02/23/17	06/30/37	476,500	37,475	36,475	35,475	34,475	33,475	32,475	31,475	30,475	29,725	28,975
CTF Marina Bulkhead Repair I Refi 6/15/11	03/15/21	06/30/30	271,950	45,400	38,725	37,800	36,350	35,400	33,925	32,450	30,975	-	-
Marina Bulkhead Repair II Refi 6/15/11	03/15/21	06/30/30	243,800	34,975	33,775	32,575	31,875	35,650	34,175	32,700	36,225	-	-
Marina Bismore Park Bulkhead Imp. Design (I) (#2021-101)	03/15/22	03/15/27	184,000	52,850	41,650	39,900	38,150	36,750	-	-	-	-	-
Total Marina Enterprise Fund				333,688	219,613	212,538	205,438	178,663	137,363	132,663	133,075	59,225	57,725
SANDY NECK INTEREST & PRINCIPAL													
Sandy Neck Beach House I Refi 6/15/11	03/15/21	06/30/31	470,600	63,315	58,690	56,190	55,715	64,665	62,065	58,965	59,890	55,640	-
Sandy Neck Beach House II Refi 6/15/11	03/15/21	06/30/26	26,250	5,100	4,900	5,200	9,975	-	-	-	-	-	-
Sandy Neck Beach House III Refi 6/15/11	03/15/21	06/30/31	98,350	11,870	11,495	11,120	10,745	10,870	15,470	14,820	14,170	13,520	-
Total Sandy Neck Enterprise Fund				80,285	75,085	72,510	76,435	75,535	77,535	73,785	74,060	69,160	-
HYCC INTEREST & PRINCIPAL													
CTF HYCC 1 (I) \$1,000,000 Refunded	02/17/15	02/15/27	474,900	56,470	53,550	51,670	49,790	47,380	-	-	-	-	-
CTF HYCC 2 (I) \$8,000,000 Refunded	02/17/15	02/15/27	3,794,400	447,650	430,450	413,330	396,290	380,070	-	-	-	-	-
CTF HYCC 3 (I) \$1,600,000 Refunded	02/17/15	02/15/27	759,000	89,550	86,510	82,470	79,470	76,220	-	-	-	-	-
CTF HYCC 4 (I) \$6,765,000 Refunded	06/21/16	06/30/28	3,320,000	384,480	374,200	360,800	344,100	332,600	316,200	-	-	-	-
CTF HYCC Roof, HVAC, and Parking & Security (#2019-115)	02/25/20	06/30/40	679,000	56,425	54,675	52,925	51,175	49,425	47,675	45,925	44,175	42,775	41,725
CTF HYCC Facility Improvements (#2020-103)	03/15/21	06/30/41	674,700	62,450	60,450	58,450	51,450	49,700	47,950	46,200	44,450	42,700	36,300
CTF HYCC Facility Improvements (I) (#2021-106)	03/15/22	03/15/42	1,484,000	137,850	129,900	126,150	122,400	119,400	115,650	111,900	108,150	104,400	100,650
Total HYCC Enterprise Fund				1,234,875	1,189,735	1,145,795	1,094,675	1,054,795	527,475	204,025	196,775	189,875	178,675

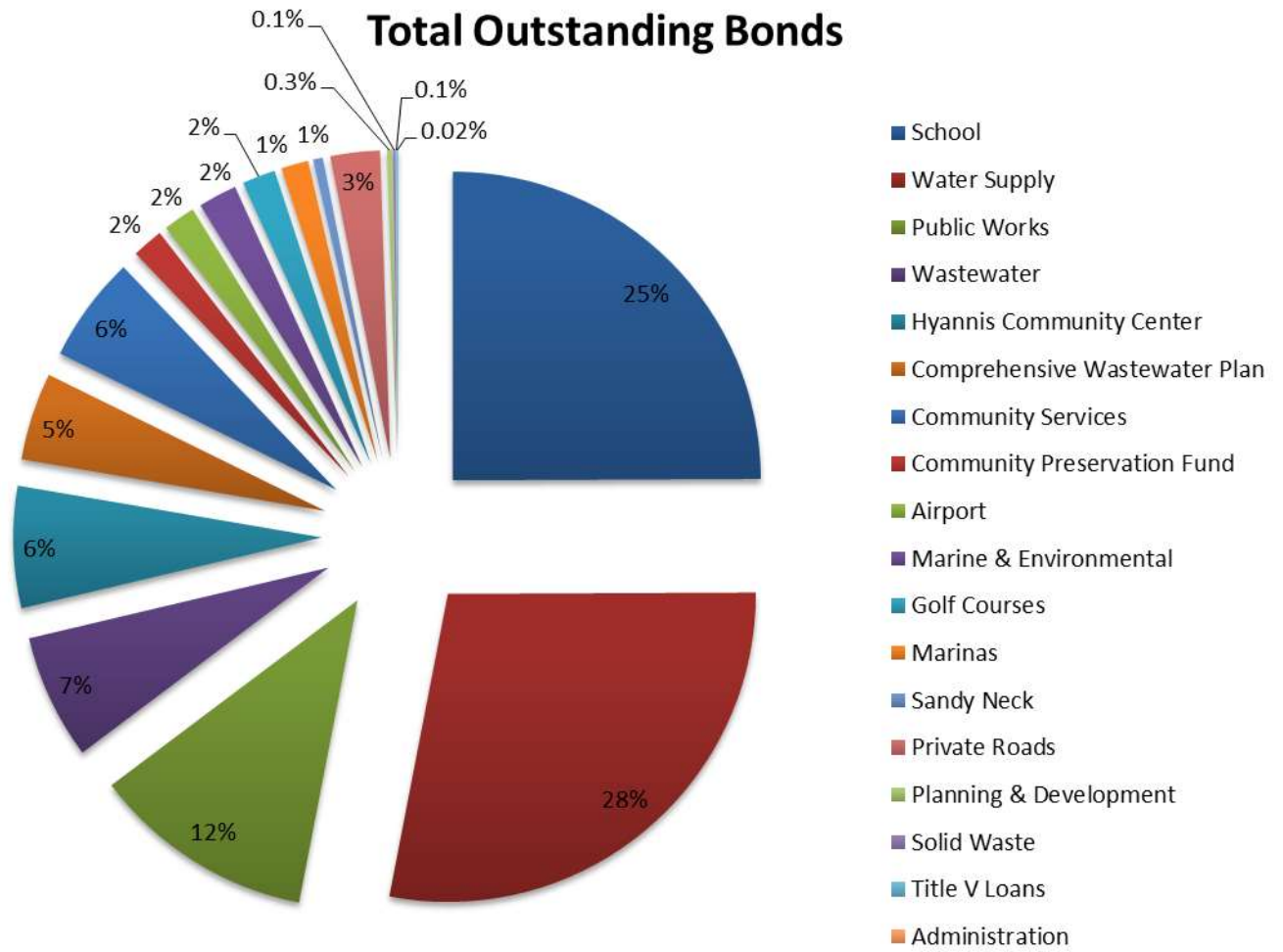
ROAD BETTERMENT REVOLVING FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Gleneagle Drive Private Road Repairs (#2019-197)	02/25/20	06/30/30	675,000	96,100	92,600	89,100	80,600	77,350	74,100	70,850	67,600	-	-
Crosby Circle Private Road Repairs (#2017-148)	02/25/21	06/30/30	44,000	5,800	5,700	5,600	5,500	5,400	5,300	5,200	5,100	-	-
Pine Ridge & Waquoit Private Road (#2017-149)	02/25/21	06/30/33	113,200	11,920	11,720	11,520	11,320	11,120	10,920	10,720	10,520	10,320	10,200
Woodland Avenue Private Road Repair (#2017-150)	02/25/21	06/30/33	71,900	11,095	5,895	5,795	5,695	5,595	5,495	5,395	5,295	5,195	5,135
Bunker Hill Private Road Repair (#2017-168)	02/25/21	06/30/33	296,450	29,905	29,405	28,905	28,405	27,905	27,405	26,905	26,405	25,905	25,605
Beach Plum & Smoke Valley Private Road (#2017-169)	02/25/21	06/30/33	447,600	47,465	46,665	45,865	45,065	44,265	43,465	42,665	41,865	41,065	40,265
Ice Valley & Fox Island Private Road (#2017-170)	02/25/21	06/30/33	512,300	53,560	52,660	51,760	50,860	49,960	49,060	48,160	47,260	46,360	45,460
Locust Lane Private Road (#2018-140)	02/25/21	06/30/29	38,750	5,700	5,600	5,500	5,400	5,300	5,200	5,100	-	-	-
Multiple Temporary Private Road (#2018-151)	02/25/21	06/30/34	335,300	35,575	34,975	34,375	33,775	33,175	32,575	31,975	31,375	30,775	30,175
Laura Road Private Road (#2018-167)	02/25/21	06/30/26	28,500	5,400	5,300	5,200	5,100	-	-	-	-	-	-
Wheeler Road Private Road (#2020-045)	02/25/21	06/30/36	510,650	43,485	42,785	42,085	41,385	40,685	39,985	39,285	38,585	37,885	37,185
Goodview Way Private Road (#2020-080)	02/25/21	06/30/36	218,850	18,625	18,325	18,025	17,725	17,425	17,125	16,825	16,525	16,225	16,045
Nyes Neck Private Road (#2020-189)	02/25/21	06/30/36	127,500	12,095	11,895	11,695	11,495	11,295	11,095	10,895	10,695	10,495	5,375
Total Road Betterment Revolving Fund				376,725	363,525	350,425	337,425	324,675	312,025	299,475	287,025	210,325	202,925
COMMUNITY PRESERVATION FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Advance Refund 6/15/2003 Landbank Acquisitions	04/18/12	09/15/22	964,600	96,492	-	-	-	-	-	-	-	-	-
Advance Refund 6/15/2004 Landbank Acquisitions 3	04/18/12	09/15/22	5,385,600	567,732	-	-	-	-	-	-	-	-	-
Advance Refund 6/15/2004 Landbank Acquisitions 2	04/18/12	09/15/22	227,300	25,500	-	-	-	-	-	-	-	-	-
Land Acquisition - 2004-105 Bone Hill \$200k Refunded	02/17/15	02/15/25	90,850	10,080	9,720	9,360	-	-	-	-	-	-	-
Land Acquisition - 06-15-05 - 2004-106 \$180k Refunded	02/17/15	02/15/25	73,600	4,480	4,320	4,160	-	-	-	-	-	-	-
Land Acquisition - Hyannis Golf \$5,500,000 Refunded	02/17/15	02/15/25	2,496,300	277,620	266,700	255,320	-	-	-	-	-	-	-
Land Acquisition - Archibald \$500,000 Refunded	02/17/15	02/15/26	212,100	26,450	25,530	24,610	23,690	-	-	-	-	-	-
Town Hall Renovations Refi 6/15/10	03/15/21	06/30/30	487,550	74,675	72,525	70,350	67,650	65,450	62,725	60,500	57,750	-	-
Total Community Preservation Fund				1,083,029	378,795	363,800	350,340	337,450	324,725	312,025	300,000	287,750	-
TITLE V FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	10,459	-	-	-	-	-	-	-	-	-
Title V - Phase I - 97-1131 Series 6 (Subsidy)	07/01/04	08/01/22	(subsidy)	(255)	-	-	-	-	-	-	-	-	-
Title V - Phase III - Pool 11 T5-97-1131-2	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	-	-	-	-	-	-
Title V - Phase IV - Pool 11 T5-97-1131-3	10/31/05	07/15/25	200,000	10,000	10,000	10,000	10,000	-	-	-	-	-	-
Title V - Phase V - Pool 12 97-1131-4D	12/14/06	07/15/26	200,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	-
Total Title V				40,204	30,000	30,000	30,000	30,000	10,000	-	-	-	-
SEWER CONSTRUCTION & PRIVATE WAY MAINT. IMP. FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2023	Pymts FY 2024	Pymts FY 2025	Pymts FY 2026	Pymts FY 2027	Pymts FY 2028	Pymts FY 2029	Pymts FY 2030	Pymts FY 2031	Pymts FY 2032
MWPAT CWS-09-07	07/08/10	07/15/30	3,285,646	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	199,318	-
Sewer CWS-09-07-A Series 16	05/14/15	07/15/32	4,592,367	303,329	303,701	304,082	304,471	304,868	305,273	305,688	306,111	306,544	306,986
310 Main Street, Barnstable (Centerville) Acquisition (#2020-025)	02/25/20	06/30/40	549,000	47,438	45,938	44,438	42,938	41,438	39,938	38,438	36,938	35,438	34,188
1456 Falmouth Road, Route 28, Barnstable (Centerville) Acquisition (#2020-02)	02/25/20	06/30/40	283,900	23,975	23,225	22,475	21,725	20,975	20,225	19,475	18,725	18,125	17,675
RT 28 East Sewer Expansion Pump Station, Roadway & Utility Work (#2020-03)	03/15/21	06/30/41	800,000	66,000	64,000	62,000	60,000	58,000	56,000	54,000	52,000	50,000	48,400
Total Sewer Construction & Private Way Maintenance and Improvement Fund				640,059	636,182	632,313	628,451	624,598	620,753	616,918	613,073	609,228	605,383
TOTAL ENTERPRISE FUND AND OTHER FUND BOND OBLIGATIONS				8,450,292	7,403,139	7,133,668	6,387,849	6,156,920	4,819,008	3,847,286	3,715,303	3,455,416	2,943,207
GRAND TOTAL TOWN OF BARNSTABLE BOND OBLIGATIONS				15,223,578	13,533,874	12,322,278	11,335,344	10,488,890	8,720,473	7,503,901	7,228,712	6,721,174	5,966,625

SCHOOLS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF Early Learning Center Modular Facility	02/17/15	02/15/35	2,000,000	109,000	106,000	103,000	-	-	-	-	-	-	-
CTF Elementary School Modular Classroom (#2015-115)	02/25/16	06/30/36	3,720,000	207,200	201,650	196,100	190,550	-	-	-	-	-	-
CTF BIS Façade & Roof Improvements (#2015-116)	02/25/16	06/30/36	3,353,000	184,800	179,850	174,900	169,950	-	-	-	-	-	-
CTF Horace Mann Roof (I) (#2016-081)	02/27/18	06/30/38	2,350,000	136,419	132,969	129,519	126,069	122,475	118,738	-	-	-	-
CTF Barnstable High School Learning Center (I) (#2017-063)	02/27/18	06/30/38	2,968,500	172,066	167,656	163,306	158,956	154,425	149,713	-	-	-	-
CTF Barnstable High School Stadium Bleachers (I) (#2017-067)	02/27/18	06/30/33	966,000	61,800	-	-	-	-	-	-	-	-	-
CTF Barnstable High School Cafeteria Window (I) (#2017-068)	02/27/18	06/30/38	400,000	23,725	23,125	22,525	21,925	21,300	20,650	-	-	-	-
CTF Hyannis West Elementary School Roof Truss System (2019-058)	02/26/19	06/30/39	850,000	48,650	47,450	46,250	45,050	43,850	42,600	41,300	-	-	-
CTF Barnstable High School Sports Field Upgrade (#2018-064)	02/26/19	06/30/34	4,600,000	323,300	314,150	-	-	-	-	-	-	-	-
CTF Barnstable Public Schools Mechanical Upgrades (#2019-096)	02/25/20	06/30/40	250,000	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	-	-
CTF Barnstable Public Schools Environmental Lab (#2019-097)	02/25/20	06/30/40	222,000	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	-	-
CTF BPS & BIS Roof Top Ventilators (#2019-098)	02/25/20	06/30/40	1,500,000	88,313	86,063	84,563	83,063	81,563	79,969	78,375	76,688	-	-
CTF Centerville Elementary Ventilator (#2019-099)	02/25/20	06/30/40	500,000	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	-	-
CTF Hyannis West Elementary School Roof (#2019-101)	02/25/20	06/30/40	450,000	23,550	22,950	22,550	22,150	21,750	21,325	20,900	20,450	-	-
CTF Centerville Elementary Roof (#2019-102)	02/25/20	06/30/40	250,000	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	-	-
CTF Barnstable High School Sports Field Upgrades (#2019-211)	02/25/20	06/30/35	1,100,000	74,900	72,800	71,400	-	-	-	-	-	-	-
CTF Elementary School HVAC Chiller Replacement (#2020-084)	03/15/21	06/30/41	400,000	23,600	23,200	22,800	22,400	22,000	21,600	21,200	20,800	20,400	-
CTF BHS and BIS Rooftop Ventilator Replacement (I) (#2021-084)	03/15/22	03/15/42	3,205,000	209,600	203,200	198,400	193,600	188,800	184,000	179,200	174,400	169,600	164,800
Total Schools Interest & Principal				1,751,625	1,644,175	1,297,325	1,094,625	715,975	697,238	398,450	348,575	190,000	164,800
PUBLIC WAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF Guardrail & Sidewalk (I) (#2017-073)	02/27/18	06/30/33	287,000	15,450	-	-	-	-	-	-	-	-	-
CTF Sidewalk Improvements (#2019-125)	02/25/20	06/30/35	314,000	21,400	20,800	20,400	-	-	-	-	-	-	-
CTF Crosswalk Improvements (#2019-128)	02/25/20	06/30/35	113,100	5,350	5,200	5,100	-	-	-	-	-	-	-
CTF Bumps River Bridge Repair (#2019-124)	03/15/21	06/30/41	900,000	53,100	52,200	51,300	50,400	49,500	48,600	47,700	46,800	45,900	-
Total Public Ways Interest & Principal				95,300	78,200	76,800	50,400	49,500	48,600	47,700	46,800	45,900	-
PUBLIC FACILITIES INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF Centerville Recreation Building	02/17/15	02/15/35	185,000	5,450	5,300	5,150	-	-	-	-	-	-	-
CTF Police Facilities	02/17/15	02/15/35	288,000	10,900	10,600	10,300	-	-	-	-	-	-	-
CTF Police Station Remodeling (#2015-100)	02/25/16	06/30/36	355,000	16,800	16,350	15,900	15,450	-	-	-	-	-	-
CTF Town Hall Remodeling (#2015-101)	02/25/16	06/30/36	939,000	50,400	49,050	47,700	46,350	-	-	-	-	-	-
CTF Craigville Beach Bathhouse (#2016-031)	02/25/16	06/30/36	450,000	22,400	21,800	21,200	20,600	-	-	-	-	-	-
CTF Osterville Bay Elem School Improvements (I) (#2016-112)	02/23/17	06/30/37	724,300	40,644	39,594	38,456	37,319	36,181	-	-	-	-	-
CTF Lombard Field Improvements (I) (#2016-113)	02/23/17	06/30/37	895,000	52,088	50,738	49,275	47,813	41,350	-	-	-	-	-
CTF Senior Center Renovations (#2018-076)	02/26/19	06/30/39	659,000	36,488	35,588	34,688	33,788	32,888	31,950	30,975	-	-	-
CTF Osterville Recreation Building Design & Construction (#2017-086)	02/26/19	06/30/39	675,000	41,788	40,738	34,688	33,788	32,888	31,950	30,975	-	-	-
CTF Town Hall Restroom Renovations	02/26/19	06/30/39	560,000	30,406	29,656	28,906	28,156	27,406	26,625	25,813	-	-	-
CTF School Administration Building Remodeling (#2019-148)	02/25/20	06/30/40	996,000	58,763	57,263	56,263	55,263	54,263	53,200	52,138	46,013	-	-
CTF Craigville Bath House (#2019-116)	02/25/20	06/30/40	255,000	11,775	11,475	11,275	11,075	10,875	10,663	10,450	10,225	-	-
CTF Craigville Parking Lot (#2019-116)	02/25/20	06/30/35	160,000	10,700	10,400	10,200	-	-	-	-	-	-	-
CTF Marston Mills Tennis Courts (#2019-117)	02/25/20	06/30/35	620,000	42,800	41,600	40,800	-	-	-	-	-	-	-
CTF Public Bridge Improvements and Repairs (#2019-122)	02/25/20	06/30/40	500,000	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	-	-
CTF Town Hall Security Improvements (#2019-129)	03/15/21	06/30/41	480,000	29,100	28,600	28,100	27,600	27,100	21,600	21,200	20,800	20,400	-
CTF Osterville Field Construction & Site Improvement (#2019-146)	03/15/21	06/30/36	705,600	48,600	47,700	46,800	45,900	-	-	-	-	-	-
CTF 200 Main Street Mansard Evaluation & Repair (#2020-106)	03/15/21	06/30/41	374,000	23,000	22,600	22,200	16,800	16,500	16,200	15,900	15,600	15,300	-
CTF Salt Storage Facility Design & Construction (#2020-107)	03/15/21	06/30/41	345,000	17,700	17,400	17,100	16,800	16,500	16,200	15,900	15,600	15,300	-
CTF Police Facility Improvements (I) (#2021-098)	03/15/22	03/15/42	806,432	52,400	50,800	49,600	48,400	47,200	46,000	44,800	43,600	42,400	41,200
CTF Police Site Security Fence (I) (#2021-099)	03/15/22	03/15/42	340,032	19,650	19,050	18,600	18,150	17,700	17,250	16,800	16,350	15,900	15,450
CTF Town Hall Mechanical Improvements (I) (#2021-114)	03/15/22	03/15/42	1,908,596	124,450	120,650	117,800	114,950	112,100	109,250	106,400	103,550	100,700	97,850
Total Public Facilities Interest & Principal				775,738	755,638	733,188	645,888	500,138	407,544	397,475	297,300	210,000	154,500

WATERWAYS INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF Blish Point Boat Access Channel Dredging (I) (#2016-111)	02/23/17	06/30/37	943,900	52,256	50,906	49,444	47,981	46,519	-	-	-	-	-
CTF Channel Dredging - (#2019-119)	03/15/21	06/30/41	406,000	23,600	23,200	22,800	22,400	22,000	21,600	21,200	20,800	20,400	-
Total Waterways Interest & Principal				75,856	74,106	72,244	70,381	68,519	21,600	21,200	20,800	20,400	-
WATER QUALITY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF Stormwater Improvements - Impaired Ponds (#2020-110)	03/15/21	06/30/41	300,000	17,700	17,400	17,100	16,800	16,500	16,200	15,900	15,600	15,300	-
Total Water Quality Interest & Principal				17,700	17,400	17,100	16,800	16,500	16,200	15,900	15,600	15,300	-
TOTAL GENERAL FUND BOND OBLIGATIONS				2,716,219	2,569,519	2,196,656	1,878,094	1,350,631	1,191,181	880,725	729,075	481,600	319,300
AIRPORT INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Airport Terminal Ramp Construction - Phase 2 (O) (#2013-0101)	02/23/17	06/30/37	428,000	29,363	28,613	27,800	31,988	31,013	-	-	-	-	-
Airport New Fuel Farm (I) (#2013-102)	02/23/17	06/30/36	634,500	45,425	44,225	47,925	46,463	-	-	-	-	-	-
Airport East Ramp Design & Construction (O) (#2014-053)	02/23/17	06/30/37	641,200	46,619	45,419	44,119	42,819	46,519	-	-	-	-	-
Runway Reconstruction & Generator Replacement	02/26/19	06/30/39	355,500	18,244	17,794	17,344	16,894	16,444	15,975	15,488	-	-	-
Total Airport Fund Bonds				139,650	136,050	137,188	138,163	93,975	15,975	15,488	-	-	-
GOLF COURSE INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Olde Barnstable Fairgrounds Golf Course (I) (#2016-107)	02/23/17	06/30/37	245,000	11,613	11,313	10,988	10,663	10,338	-	-	-	-	-
Hyannis Golf Course Improvements (I) (#2016-108)	02/23/17	06/30/37	292,700	16,925	16,475	10,988	10,663	10,338	-	-	-	-	-
Total Golf Course				28,538	27,788	21,975	21,325	20,675	-	-	-	-	-
WATER POLLUTION CONTROL INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Pump Station/Sewer Main Const (#2009-132)	02/25/16	06/30/36	1,000,000	56,000	54,500	53,000	51,500	-	-	-	-	-	-
Wastewater Treatment Plant Clarifiers Rehab (O) (#2016-097)	02/23/17	06/30/37	1,146,000	63,869	62,219	60,431	58,644	56,856	-	-	-	-	-
Wastewater Treatment Plant Backup Generator (O) (#2016-098)	02/23/17	06/30/37	862,000	46,450	45,250	43,950	42,650	41,350	-	-	-	-	-
Rendezvous Lane Pump Station Replacement (#2019-132)	03/15/21	06/30/41	1,160,000	70,000	63,800	62,700	61,600	60,500	59,400	58,300	57,200	56,100	-
Total Water Pollution Control Enterprise Fund				236,319	225,769	220,081	214,394	158,706	59,400	58,300	57,200	56,100	-
WATER SUPPLY INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
DWP-11-10 Series 17A	05/22/13	01/15/33	560,761	34,812	-	-	-	-	-	-	-	-	-
Water Main Loop	02/17/15	02/15/35	540,000	21,800	21,200	20,600	-	-	-	-	-	-	-
DW-09-02 Series 16	05/14/15	07/15/32	533,117	35,689	-	-	-	-	-	-	-	-	-
DWP-11-09 Series 17A	05/14/15	01/15/33	793,438	53,643	-	-	-	-	-	-	-	-	-
Pipe Replacement Upgrade FY17 (#2015-085)	02/25/16	06/30/36	900,000	50,400	49,050	47,700	46,350	-	-	-	-	-	-
Hyannis Water System Pipe Replacement (O) (#2016-093)	02/23/17	06/30/37	858,400	46,450	45,250	43,950	42,650	41,350	-	-	-	-	-
DWP-14-09 Mass Clean Water Trust (#2014-071, 2013-085, 2013-088)	04/13/17	07/15/37	1,467,339	90,505	90,647	90,791	90,939	91,091	-	-	-	-	-
Well Reactivation (O) (#2017-080)	02/27/18	06/30/38	276,000	17,013	11,563	11,263	10,963	10,650	10,325	-	-	-	-
Water Pipe Replacement (O) (#2017-081)	02/27/18	06/30/38	468,000	23,725	23,125	22,525	21,925	21,300	20,650	-	-	-	-
Mary Dunn Water Storage Tank Site Work (O) (#2017-083)	02/27/18	06/30/38	600,500	35,588	34,688	33,788	32,888	31,950	30,975	-	-	-	-
Pipe Replacement Upgrade FY19 (#2018-081)	02/26/19	06/30/39	1,050,000	60,813	59,313	57,813	56,313	54,813	53,250	51,625	-	-	-
MCWT Series 19 DWP-13-01 Reamortization	04/11/19	07/15/36	1,736,865	122,486	122,682	122,882	123,087	-	-	-	-	-	-
Water Pipe Replacement (#2019-135)	02/25/20	06/30/40	950,500	52,988	51,638	50,738	49,838	48,938	47,981	47,025	46,013	-	-
MCWT Bonds; Series 21 DWP-16-17 (#2014-073, 2016-146, 2016-163 & 2017-092)	09/25/20	06/30/39	2,428,471	161,216	161,430	161,649	161,873	162,103	162,336	162,575	-	-	-
New Well Exploration Program (#2018-083)	03/15/21	06/30/41	314,500	17,700	17,400	17,100	16,800	16,500	16,200	15,900	15,600	15,300	-
CTF 50% Water Infrastructure Construction (#2019-212)	03/15/21	06/30/41	1,000,000	59,000	58,000	57,000	56,000	55,000	54,000	53,000	52,000	51,000	-
Pipe Replacement & Upgrades (#2020-120)	03/15/21	06/30/41	750,000	41,300	40,600	39,900	39,200	38,500	37,800	37,100	36,400	35,700	-
MCWT DWP-18-10 (#2017-099, 2018-173)	05/11/21	01/15/46	9,754,852	511,137	511,805	512,490	513,191	513,908	514,641	515,394	516,164	516,952	517,759
MCWT DWP-19-28 (#2019-215)	05/11/21	01/15/41	2,642,303	132,408	132,607	132,806	133,005	133,205	133,405	133,605	133,805	134,006	-
Water Pipe Replacement and Upgrades (O) (#2021-119)	03/15/22	03/15/42	946,000	58,950	57,150	55,800	54,450	53,100	51,750	50,400	49,050	47,700	46,350
Total Water Enterprise Fund				1,627,620	1,488,146	1,478,793	1,449,470	1,272,407	1,133,313	1,066,624	849,031	800,658	564,109

MARINA INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Prince Cover Marina Bulkhead (#2015-109)	02/25/16	06/30/36	570,000	28,000	27,250	26,500	25,750	-	-	-	-	-	-
Gateway Marina Maintenance Dredging (I) (#2016-109)	02/23/17	06/30/37	476,500	23,225	22,625	21,975	21,325	20,675	-	-	-	-	-
Total Marina Enterprise Fund				51,225	49,875	48,475	47,075	20,675	-	-	-	-	-
HYCC INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
CTF HYCC Roof, HVAC, and Parking & Security (#2019-115)	02/25/20	06/30/40	679,000	40,675	39,625	38,925	33,225	32,625	31,988	31,350	30,675	-	-
CTF HYCC Facility Improvements (#2020-103)	03/15/21	06/30/41	674,700	35,400	34,800	34,200	33,600	33,000	32,400	31,800	31,200	30,600	-
CTF HYCC Facility Improvements (I) (#2021-106)	03/15/22	03/15/42	1,484,000	97,650	94,650	92,400	90,150	87,900	85,650	78,400	76,300	74,200	72,100
Total HYCC Enterprise Fund				173,725	169,075	165,525	156,975	153,525	150,038	141,550	138,175	104,800	72,100
ROAD BETTERMENT REVOLVING FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Pine Ridge & Waquoit Private Road (#2017-149)	02/25/21	06/30/33	113,200	5,070	-	-	-	-	-	-	-	-	-
Woodland Avenue Private Road Repair (#2017-150)	02/25/21	06/30/33	71,900	5,070	-	-	-	-	-	-	-	-	-
Bunker Hill Private Road Repair (#2017-168)	02/25/21	06/30/33	296,450	20,280	-	-	-	-	-	-	-	-	-
Beach Plum & Smoke Valley Private Road (#2017-169)	02/25/21	06/30/33	447,600	35,490	-	-	-	-	-	-	-	-	-
Ice Valley & Fox Island Private Road (#2017-170)	02/25/21	06/30/33	512,300	40,560	-	-	-	-	-	-	-	-	-
Multiple Temporary Private Road (#2018-151)	02/25/21	06/30/34	335,300	25,750	25,400	-	-	-	-	-	-	-	-
Wheeler Road Private Road (#2020-045)	02/25/21	06/30/36	510,650	37,010	36,520	30,960	30,480	-	-	-	-	-	-
Goodview Way Private Road (#2020-080)	02/25/21	06/30/36	218,850	15,850	15,640	15,400	10,160	-	-	-	-	-	-
Nyes Neck Private Road (#2020-189)	02/25/21	06/30/36	127,500	5,310	5,240	5,160	5,080	-	-	-	-	-	-
Total Road Betterment Revolving Fund				190,390	82,800	51,520	45,720	-	-	-	-	-	-
SEWER CONSTRUCTION & PRIVATE WAY MAINT. IMP. FUND INTEREST & PRINCIPAL	Issue Date	Maturity Date	Original Amount	Pymts FY 2033	Pymts FY 2034	Pymts FY 2035	Pymts FY 2036	Pymts FY 2037	Pymts FY 2038	Pymts FY 2039	Pymts FY 2040	Pymts FY 2041	Pymts FY 2042
Sewer CWS-09-07-A Series 16	05/14/15	07/15/32	4,592,367	307,438	-	-	-	-	-	-	-	-	-
310 Main Street, Barnstable (Centerville) Acquisition (#2020-025)	02/25/20	06/30/40	549,000	29,438	28,688	28,188	27,688	27,188	26,656	26,125	25,563	-	-
1456 Falmouth Road, Route 28, Barnstable (Centerville) Acquisition (#2020-02)	02/25/20	06/30/40	283,900	17,225	16,775	16,475	16,175	10,875	10,663	10,450	10,225	-	-
RT 28 East Sewer Expansion Pump Station, Roadway & Utility Work (#2020-03)	03/15/21	06/30/41	800,000	47,200	46,400	45,600	44,800	44,000	43,200	42,400	41,600	40,800	-
Total Sewer Construction & Private Way Maintenance and Improvement Fund				401,300	91,863	90,263	88,663	82,063	80,519	78,975	77,388	40,800	-
TOTAL ENTERPRISE FUND AND OTHER FUND BOND OBLIGATIONS				2,848,766	2,271,365	2,213,820	2,161,783	1,802,026	1,439,244	1,360,937	1,121,794	1,002,358	636,209
GRAND TOTAL TOWN OF BARNSTABLE BOND OBLIGATIONS				5,564,985	4,840,884	4,410,476	4,039,877	3,152,657	2,630,425	2,241,662	1,850,869	1,483,958	955,509

Total Outstanding Bonds



FY 2024 Budget Action Calendar

DATE	ACTION
Monday, September 19, 2022	Town Manager issues instructions to Municipal Departments for FY24 Operating & Capital budgets
Tuesday, October 11, 2022	Municipal Departments submit preliminary listing of any proposed FY24 position changes with supporting justification to Human Resources (HR) with copy to Town Manager
Thursday, October 20, 2022	Town Council conducts joint meeting with School Committee in accordance with Town Charter to review financial condition and financial policies of the Town
Monday, October 31, 2022	Town Manager & School Superintendent develop annual policy agreement on allocation of projected FY24 General Fund revenue growth
Monday, October 31, 2022	Municipal Departments submit Calendar Year fee change requests to Town Manager
Monday, November 7, 2022	Departments (including School) submit Capital Improvements Project (CIP) data sheets <i>with supporting photos</i> and review of existing capital projects to Town Manager
Tuesday, November 15, 2022	Town Manager conducts public hearing on any proposed changes to <u>Calendar Year fees</u>
Wednesday, November 16, 2022	Human Resources submits position changes summary including comments to Town Manager
Wednesday November 16, 2022	School Committee Meeting – Strategic Plan and Priorities
Monday, November 28, 2022	CIP Task Force provided copy of CIP submissions
Friday, November 25, 2022	Superintendent issues Operating budget instructions for School Department
Thursday, December 8, 2022	Municipal Department Managers submit Operating Budget <i>Decision Packages</i>
Thursday, December 1, 2022	Annual Organization of Town Council (TM must submit budget to Town Council within 170 days per M.G.L. 44 § 32) (Friday, May 19, 2023)
Thursday, December 8, 2022	CIP Task Force conducts workshop on CIP submissions (Date Subject to Change)
Wednesday, December 23, 2022	School site/department submit Operating Budget requests
Wednesday, January 4, 2023	Municipal Department Managers submit Operating Budget <i>Narratives</i> including photos
Wednesday, January 11, 2023	School Committee Workshop (FY24 Budget Introduction/ Confirming Strategic Direction of Budget)
Wednesday, January 18, 2023	Municipal Departments submit Fiscal Year fee change requests to Town
Wednesday, February 1, 2023	School Committee Meeting – Initial Presentation of FY23 Budget
Wednesday, February 15, 2023	School Committee Workshop (Round Table Review of Budget)
Wednesday, March 1, 2023	School Committee Meeting – FY23 Budget Review
Monday, March 6, 2023	Town Manager submits recommended FY24 Capital Budget to Town Council per Part VI, Section 6-5 (d) of the Charter <i>(TC must adopt plan BEFORE June 1, 2022)</i>
Wednesday, March 15, 2023	FY24 School Operating Budget Public Hearing
Tuesday, March 21, 2023	Town Manager conducts public hearing on any proposed changes to <u>Fiscal Year fees</u>
Wednesday, April 5, 2023	School Committee meeting to adopt FY23 Operating budget
Thursday, April 6, 2023	School Department submits adopted FY23 School budget to Town Manager
Thursday, April 6, 2023	Town Council conducts first reading of FY24 Capital Budget Orders. Capital Budget presentation made to the Town Council
Monday, April 10, 2023	CFAC submits their review of recommended FY24 Capital Budget to Town Manager & Town Council
Thursday, April 27, 2023	Town Council conducts first public hearing on FY24 Capital Budget
Thursday, May 4, 2023	Town Council conducts second public hearing on FY24 Capital Budget
Tuesday, May 9, 2023	Town Manager submits recommended FY24 Operating Budget to the Town Council. Town Council must adopt budget within 45 days (by June 23, 2023) otherwise it becomes part of FY24 appropriations per Section 6-3 (b) of the Charter)
Monday May 15, 2023	CFAC submits their review of recommended FY24 Operating Budget to Town Manager & Town Council
Thursday, May 18, 2023	Last Town Council meeting to adopt FY24 proposed Capital Budget (Must be adopted by June 1, 2022)
Thursday, May 18, 2023	Town Council conducts first reading of the FY24 Operating Budget Orders. Operating Budget presentation made to Town Council.
Thursday, June 1 2023	Town Council conducts first public hearing on FY24 Operating Budget
Thursday, June 15, 2023	Town Council conducts second public hearing on FY24 Operating Budget
Thursday, June 22, 2023	Special Town Council meeting (if needed) to complete public hearings on FY24 proposed Operating Budget.

Town Council Action
 Town Manager Action
 Municipal & School Dept./CFAC Action