

*Town of Barnstable
Massachusetts*

FY 2013 CAPITAL BUDGET

AND

FY 2013 – FY 2017

CAPITAL IMPROVEMENTS PLAN



Thomas K. Lynch
Acting Town Manager
March 15, 2012



GOVERNMENT FINANCE OFFICERS ASSOCIATION

*Distinguished
Budget Presentation
Award*

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**Town of Barnstable
Massachusetts**

For the Fiscal Year Beginning

July 1, 2011

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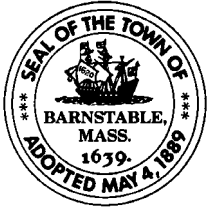
President

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*The Government Finance Officers Association of the United States and Canada (GFOA) has presented a Distinguished Budget Award to the Town of Barnstable for its annual budget for the fiscal year beginning July 1, 2011. 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. This is the **tenth consecutive year** that the Town of Barnstable has been presented with this prestigious award.*

The criterion on which the award for fiscal year 2011 was based is that which has been used as a guide in preparing the budget for fiscal year 2012. Therefore, it is my belief that the Capital and Operating budgets presented for fiscal year 2012 conform to program requirements, and I will submit them to GFOA to determine their eligibility for another award. Former Town Manager John C. Klimm and my Staff, Mark Milne, Finance Director, and Bob O'Brien, Budget Director are to be congratulated for their parts in this and the previous nine awards.

Thomas K. Lynch
Acting Town Manager



The Town of Barnstable

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TO: Town Council

FROM: Thomas K. Lynch, Acting Town Manager *tkl*

RE: FY 2013 Capital Budget and FY 2013 – FY 2017 Capital Improvements Plan

DATE: March 15, 2012

In accordance with Section 6-5, *Capital Improvements Plan*, of the Town Charter, I hereby submit the Town's FY 2013 Capital Budget and FY 2013 – FY 2017 Capital Improvements Plan for your review and action. In forwarding this document, I would be remiss in not mentioning the work that went into its development by my department heads, their staff and, in particular, the members of the Comprehensive Finance Advisory Committee who spent many hours reviewing and commenting on the numerous projects submitted.

BARNSTABLE TOWN COUNCIL

Frederick Chirigotis, President, Precinct 4

Janice L. Barton, Vice President, Precinct 10

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Barbara A. Ford, Acting Council Administrator

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Thomas K. Lynch, Acting Town Manager

Mark A. Milne, C.P.A., Finance Director

Robert L. O'Brien, Budget Director

FY 2013 – FY 2017 CAPITAL IMPROVEMENTS PLAN

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Front Cover Photo: New Barnstable Municipal Airport Terminal (Opened December 2011)

Back Cover Photo: New Bathhouse Sandy Neck Beach (Opened June 2011)

PART I. CAPITAL IMPROVEMENTS FY 2013 – FY 2017

A. PROJECT REQUESTS SUBMITTED

The capital projects identified by Town departments in this year's CIP process represent a total of **\$21,571,920** for FY13, and a combined total of **\$206,862,236** over a five-year period. The Capital Trust Fund's cash flow projections indicate that there are limitations on the amount of funds that can be allocated to capital projects. Over the next five years approximately \$30 million will be available to finance projects from the fund. This is also true of enterprise funded programs where there is insufficient revenue to support exceptionally large capital expenditures.

A spreadsheet (Exhibit 1) is provided on pages 28-29 that lists the projects comprising the capital plan for FY13 – FY17; recommended funding sources for FY13; and project costs over the following five years. Part IV of this report includes a more detailed summary of each project.

The following is a summary of the total projects by fiscal year (all funds):

FY 2013	\$21,571,920
FY 2014	\$89,557,349
FY 2015	\$33,613,450
FY 2016	\$48,039,077
FY 2017	\$14,080,440
Five year total	\$206,862,236

B. TOWN MANAGER RECOMMENDATIONS

Having reviewed the scoring of projects by both my Senior Staff and the Comprehensive Finance Advisory Committee and the project recommendations of the latter, I am recommending that the Town Council approve a total of **\$9,570,102** in capital projects for FY 2013 as follows: **\$4,441,102** for enterprise accounts and **\$5,129,000** for the General Fund program. Funding for the General Fund portion of the program consists of **\$3,285,000** in Capital Trust Fund (CTF) reserves and **\$1,844,000** in remaining project balances from prior appropriations as follows:

Remaining project balances from prior appropriations:

Funding Source	Council Order #	Project Name	Remaining Balance
CTF Reserves	2002-079	Boat Ramp Renovations	145
CTF Reserves	2005-043	Oyster Harbor Bridge Repairs	7,548
CTF Reserves	2007-148	Water Quality Study II	21,500
CTF Reserves	2007-149	West Bay Tower Repairs	6,323
CTF Reserves	2008-105	Demo Portable Classrooms	19,173
CTF Reserves	2008-107	Dredging	3,894
G.O. Bond	2001-087	Main St Hyannis Streetscape	3,160
G.O. Bond	2001-087	Walkway To The Sea	22,099
G.O. Bond	2001-087	Parking Lot Improvements	24,832
G.O. Bond	2001-087	Sewer Collection System Expansion Design	468,190
G.O. Bond	2002-080	Police Facility Addition	469
G.O. Bond	2002-080	Design & Specs HYCC	32,637
G.O. Bond	2002-080	Roundabout - Scudder/Smith/Marstons	145,377
G.O. Bond	2005-085	West Bay Bridge Repairs	2,380
G.O. Bond	2005-085	Police Facility Improvements	4,295
G.O. Bond	2005-085	School Facility Repairs & Improvements	5,907
G.O. Bond	2005-085	WB Comm Center Improvements	9,950
G.O. Bond	2005-085	200 Main St 2nd Floor Design	76,558
G.O. Bond	2006-096	School Improvements	4,096
G.O. Bond	2007-093	Lidar Survey	625
G.O. Bond	2007-095	Craigville Beachhouse	70,580
G.O. Bond	2007-095	Town Hall Improvements	84,461
G.O. Bond	2007-096	Coastal Discharge Mitigation	133,018
G.O. Bond	2007-097	Mystic Lake	1,637
G.O. Bond	2007-098	Pleasant St Dock Improvements	235
G.O. Bond	2007-099	School Facility Repairs	1,101
G.O. Bond	2007-099	School Safety Improvements	25,959
G.O. Bond	2008-019	Private Road Repairs	201,780
G.O. Bond	2008-108	Highway Division Complex	183
G.O. Bond	2008-108	Police Facility Fuel Tanks	24,545
G.O. Bond	2008-108	Town Hall Improvements	58,564
G.O. Bond	2008-109	Mystic Lake Alum Treatment	5,020
G.O. Bond	2008-110	School Maint/Repairs	6,941
G.O. Bond	2008-110	School Safety	58,956
G.O. Bond	2009-010	Dredging	43,167
G.O. Bond	2009-022	West Bay Bulkhead	47,464
G.O. Bond	2009-095	Athletic Facility Upgrades	123,390
G.O. Bond	2010-109	School Boilers	60,000
Sch Savings Act.	2009-069	Hyannis West Cleanup	37,840
		Total project balances to be returned	\$1,844,000

The recommended projects for the General Fund are as follows:

	Capital Trust Fund Reserves	Expiring Capital Appropriations	Project Totals
Public Roads Program	\$3,250,000		\$3,250,000
Emergency Center Generators (Highway and Landfill Office)	\$35,000	\$328,000	\$363,000
Hathaway's Pond Beach House Septic System		\$85,000	\$85,000
Town Hall Interior Improvements		\$153,000	153,000
Long Pond /Mystic Lake Hydrilla Control and Lovell's Pond Diagnostic Study		\$80,000	\$80,000
WB Community Center Septic System		\$50,000	\$50,000
Sidewalk Overlay (Approx. 13,000 Lin Ft)		\$70,000	\$70,000
Centerville Community Bldg (Painting & fire escape)		\$80,000	\$80,000
Highway Bldg Roof Replacement		\$60,000	\$60,000
Project Design (School Street Bulkhead repair, Snows Creek Culvert, Bumps River Bridge repair, Bay Street Ramp repair, Trayser Museum, West Bay Breakwaters, & Old Town Hall repair)		\$345,000	\$345,000
Marine & Environmental Affairs Bldg Septic System Improvements		\$55,000	\$55,000
Structures & Grounds Bldg (Septic System Design & Construct)		\$75,000	\$75,000
Ocean Street Parking Lot Improvements		\$115,000	\$115,000
School Facility Upgrades/Repairs		\$348,000	\$348,000
Total General Fund Capital Program	\$3,285,000	\$1,844,000	\$5,129,000

The recommended projects for the Enterprise Funds are as follows:

	Enterprise Fund Reserves	Grants	Expiring Capital Approp.	New Bond Issues	Project Total
Airport					
Test, Design, Construct Runway 6 Engineered Material Arresting System (EMAS)	\$40,000	\$760,000			\$800,000
Runway 15 Visual Zone Clearing	\$20,000	\$380,000			\$400,000
Replace Snow Removal Equipment	\$20,000	\$380,000			\$400,000
East Ramp Sewer Extension (Design)	\$13,200	\$52,800			\$66,000
Airport Terminal Enhancements	\$10,000	\$190,000			\$200,000
Total Airport Enterprise Fund	\$103,200	\$1,762,800			\$1,866,000
Marinas					
Gateway Marina Dredging (Design & Permitting)	\$80,000				\$80,000
Total Marina Enterprise Fund	\$80,000				\$80,000
Water					
Pipe Replacement & Upgrade (Design & Const)				\$1,050,000	\$1,050,000
Water Main Looping & Connection (Highland St to Cook Circle)	\$54,000				\$54,000
Construct New 8" Water Main on Scudder Ave (Greenwood Ave to Craigville Beach Rd)				\$1,070,000	\$1,070,000
Hyannis Port Well Repair (Design & Permitting)	\$80,000				\$80,000
Ocean Street Water Main Upgrade (Design)	\$67,600				\$67,600
Pay-off Lease of Emergency Generator	\$12,226		\$84,276		\$96,502
Total Water Enterprise Fund	\$213,826		\$84,276	\$2,120,000	\$2,418,102
Waste Water					
Project Design (Staff Locker Room Upgrade, Bearses Way Vacuum Station Back-up Pump, Portable Generator Storage Building)	\$77,000				\$77,000
Total Waste Water Enterprise Fund	\$77,000				\$77,000
Total Enterprise Funds	\$474,026	\$1,762,800	\$84,276	\$2,120,000	\$4,441,102

C. DESCRIPTIONS OF RECOMMENDED PROJECTS

a. GENERAL FUND CAPITAL PROJECTS (*Proposed Projects Totaling \$5,129,000*)

\$3,250,000 FOR PUBLIC ROADS MAINTENANCE

This is a continuing essential program aimed at combating the progressive deterioration of the Town's roads and provision of new storm water handling capacity. Depending on physical conditions and analysis using the Pavement Management software, the repairs may include one of several methods of repair including: full depth reconstruction, asphalt overlay, milling and paving or applying a chip seal surface layer. In addition to surface repair, improvement projects usually include installation of upgraded or new drainage systems as well as sidewalk rehabilitation wherever practicable. Through the use of the Pavement Management System, we have identified a backlog of over \$30,000,000 of needed road repairs. This equates to over 100 miles of Town roads that need more than routine maintenance or repair. In addition, the Town has a backlog of approximately 250 locations where drainage improvements are required to protect public safety or prevent property damage.

Repair projects for FY 2013 are as follows:

- Resurfacing of Merion Way from Country Club Drive to Midpine Road, and sections of Midpine Road in Barnstable.
- Resurfacing of Pleasant Street in Hyannis.
- Preventive maintenance chip seal: Wequaquet Lane in Centerville, Tea Lane, Parsley Lane, Ginger Lane, Thyme Lane, Cinnamon Lane, Curry Lane, Spice Lane and Nutmeg Lane in Osterville, Cammet Road and Old Falmouth Road in Marstons Mills.
- Preventive maintenance crack seal of various town roads to maintain service life of roads.
- Engineering Design and Permitting Services for road rehabilitation of South Main Street/Rushy Marsh Area of Cotuit.
- Design services for various construction quality control measures such as soil tests, pavement corings, concrete cylinder samples and roadwork inspection. Multiple road drainage sites town wide in known problem areas.

Source of Funding: Capital Trust Fund Reserves \$3,250,000

\$363,000 FOR EMERGENCY GENERATORS AT HIGHWAY AND SOLID WASTE

This proposal consists of the following two projects:

- 1. New Standby Generator at Highway Complex.** This involves the replacement of the existing standby generator and wiring systems which is coming to the end of its useful life with a larger unit (100kw). It was refurbished in FY2006 but now needs to be replaced with a larger unit as much of the facility is not on the current generator in the event of a major power supply failure. The systems cannot be run on battery back-ups or UPS's, and the essential replacement of the emergency power generation is needed to adequately service all public safety, communications and facility systems during emergency conditions. The Highway Department with the Emergency Center and DPW Administration is one of the most heavily used buildings we have. The building is utilized 24/7 during emergencies. The new upgraded standby generator is essential if the facility is to continue providing full service during major power outages and during emergency situations. **Total cost is \$287,000**
- 2. New Standby Generator at Solid Waste.** The Solid Waste Support Building houses the emergency response group stationed in the westerly portion of the Town. This request involves the design and installation of a 45kw emergency generator to provide electrical power for communications for the facility and staff during emergencies. DPW operations during storm

conditions depend on its ability to respond to community needs from this facility. The building is utilized 24/7 during such emergencies. The new generator is essential if the facility is to continue providing emergency service during major power outages and other emergency situations. After storm events this facility must remain operational as the residents will want to dispose of debris immediately after such events. **Total cost is \$76,000**

Source of Funding: Expiring prior Capital Appropriations (\$328,000) and Capital Trust fund Reserves (\$35,000)

\$85,000 FOR HATHAWAYS POND BEACH HOUSE SEPTIC SYSTEM

This project will fund the replacement of the Hathaway's Pond septic system. The existing system is failing.

Source of Funding: Expiring prior Capital Appropriations

\$153,000 FOR TOWN HALL INTERIOR IMPROVEMENTS

This project continues the interior work needed to maintain the existing building. Work planned for FY 2013 will include the following: Phase IA - stairwell restoration and renovation work, including architectural, mechanical, electrical, sprinkler, fire safety, space enclosure with new rated doors and hold open devices, related finishes and improvements which will bring the public stair into code compliance and repair the water damage. Floor and railing finishes are not included in this scope due to limited funding.

Source of Funding: Expiring prior Capital Appropriations

\$80,000 FOR POND PROTECTION AND IMPROVEMENT

This proposal consists of the following two projects:

- 1. Hydrilla Control Long Pond, Centerville and Mystic Lake, Marstons Mills.** This is the 11th year of controlling invasive hydrilla at Long Pond. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It can spread from pond to pond. The Town and MA DCR are partnering on this control project to help Long Pond and to reduce the chance of hydrilla spreading to other ponds in Barnstable. As a result, hydrilla has been drastically reduced in Long Pond. A small-scale hydrilla infestation was discovered in Mystic Lake in 2010. With MA DCR and Indian Ponds Assoc. assistance, the plants have been hand-pulled and the areas covered in opaque plastic screens. More extensive hand pulling by divers will be required again in FY2013.

Total Cost is \$30,000



Long Pond Centerville – Hydrilla control in progress

2. Diagnostic Feasibility Study Lovell's Pond, Cotuit

Analysis of pond nutrient balance post-aeration. The aeration system installed in 2010 has provided superb oxygen levels and mixing within the pond. However, severe blue-green algae blooms have persisted, resulting in closures of the swimming beach. This project will provide a better understanding of the water quality issues at Lovell's, and methods that can be implemented in concert with, or instead of aeration (for example, alum injection) to prevent severe algae blooms. **Total Cost is \$50,000 (\$35,000 for study and \$15,000 for operation and maintenance of aeration system)**



Lovell's Pond during summer 2010 algae bloom

Source of Funding: Expiring Capital Appropriations

\$50,000 FOR WEST BARNSTABLE COMMUNITY BUILDING IMPROVEMENTS

In the past four years, the West Barnstable Community Center building has seen an increase in its utilization and public interest. The residents have been attracted to this facility and continued repairs & improvements are required. The septic system is in poor condition and continues to back-up during peak hours of operations. Failure to replace the system may lead to closure of the facility.

Source of Funding: Expiring Capital Appropriations

\$70,000 FOR SIDEWALK CONSTRUCTION/OVERLAY PROGRAM

This is a continuation of the ongoing program to expand and solidify the Town's sidewalk network in order to provide a safe way for people to walk along our streets. Priority for new sidewalks is given to locations near our schools and public recreation facilities. This program was also designed to make repairs to existing sidewalks. As a result of a comprehensive field survey conducted, this year sections of existing sidewalks that have been identified as being in poor condition will be repaired and rehabilitated. Locations are the following: Hyannis: 1) Old Colony Rd. from South St to Main St., 1004 Lin Ft., 2) Walton Ave From Rte 28 to Bearses Way, 1577 lf., 3) Ocean St. from Main St. to South St.(both sides), 1274 lf., Marstons Mills: River Rd from Cash market to Lovell's Lane, 2325 lf., Osterville: Main St from Parker Rd. to Bay View Circle, 1977 lf., and Centerville: 1) Phinneys Lane from Main St. to Rte. 28, 1406 lf., and 2) Main St. from Phinneys Lane to Pine Street, 3383 lf.

Source of Funding: Expiring Capital Appropriations

\$80,000 FOR CENTERVILLE COMMUNITY BUILDING IMPROVEMENTS

This project will assist in funding the on-going historic adaptive reuse improvements to the Centerville Community Building. For the past several years, we have been making improvements to the interior and exterior of the building and adjoining program areas. These funds will continue repair tasks including painting of the exterior and repair/replacement of the wood fire escape.

Source of Funding: Expiring Capital Appropriations

\$60,000 FOR HIGHWAY BUILDING ROOF REPLACEMENT

The roof on the main building at the Highway Facility is in very poor condition and needs replacement. Various storms have damaged roof shingles, and combined with age, the roof shingles and underlying plywood sheathing need to be replaced to avoid interior damage to the new offices/equipment/ERC Center. This request is for the labor to purchase underlying sheathing and install the roof shingles. Roof shingles have already been purchased.

Source of Funding: Expiring Capital Appropriations

\$345,000 FOR PROJECT DESIGN

This request is for design and permitting (as required) for the following projects:

- 1. School Street Hyannis Bulkhead.** The steel bulkhead is showing signs of distress with flaking of the steel sheets and actual penetration of the steel where old drainage ways have eroded the backfill behind the steel. Surface collapse has occurred requiring repair work immediately above the bulkhead. Lack of corrective action will result in a continued deterioration of the bulkhead, potentially resulting in a future collapse with extreme costs. **Total cost for design and permitting is \$50,000.**



- 2. Snows Creek Culvert.** This involves the design and permitting for replacement of the culvert and mouth-of-creek dredging to enhance tidal flow to Snow's Creek estuary. Water quality in the creek continues to worsen. Correcting the restrictions to flow at the culvert and at the mouth hold the best chance of improving the estuary's health for the long run. **Total cost of design and permitting is \$75,000**



3. **Bumps River Bridge.** The Massachusetts Department of Transportation in their field report dated July 9, 2010 identified a number of deficiencies. Items to be addressed include cracks across the bridge deck, open joints in the sidewalks, delamination of the concrete railings, deficient or non-existent guardrail systems and broken brace supports in the sub structure. **Total cost of design and permitting is \$29,000**
4. **Bay Street Ramp.** The Bay Street Boat Ramp is one of the Town's important marine assets, providing direct access to North Bay, marinas, prime shellfish habitat, and some of our designated mooring fields. The ramp is on need of repair, as the hot top has deteriorated extensively throughout. If repairs to the ramp are not made, it will continue to deteriorate, and will eventually become unusable. A ramp that is poor condition poses a safety hazard and could prove to be a liability should an accident occur because of the condition of the ramp. **Total cost of design and permitting is \$25,000**



5. **Trayser Museum/Old Customs House.** Erected in 1856 the building has been patched, repaired and painted but heavier renovations are now necessary. Masonry and exterior metal deterioration continues to allow moisture penetration into the structure. Windows need restoration work immediately. These funds would provide for design services for selective masonry repairs and window restoration. Additional improvements listed in the historic building study will follow as funding becomes available. **Total cost of design and permitting is \$40,000**
6. **West Bay Breakwaters.** The stone breakwaters that protect either side of the channel entering West Bay from Nantucket Sound have been damaged by numerous storms, heavy seas, and constant turbulence over the years. The integrity of the structure is now compromised. The breakwaters have lost stones from their sides and have settled. The breakwaters provide for safe navigation in the area and prevent shoaling of the entrance channel. If not remedied, the shoaling will worsen and the channel will be blocked. Further, water quality in West Bay and all of the Three Bays area will be compromised. **Total cost of design and permitting is \$75,000**
7. **Old Town Hall.** The Old Town Hall (OTH) has been the center for many badly needed renovations, repairs and improvements in the past 5 years. Today it is on the verge of becoming a completely updated facility - particularly with the addition of the Cape Cod Baseball League Hall of Fame as a tenant in the basement. Since the Chamber of Commerce has leased the building, the day to day maintenance has been taken over by that organization; however, the more costly responsibility of the building itself and its equipment remains with the Town. The renovations of paint, repairs, and bathroom renovations would help the Town keep the OTH as functional as it is aesthetically pleasing. The mold problem in portions of the basement of the OTH is a condensate type mold found in most basements of Cape Cod which needs to be addressed through remediation and de-humidification, and is considered a potential public health safety hazard. **Total cost of design and permitting is \$51,000**

Source of Funding: Expiring Capital Appropriations

\$55,000 FOR MEA FACILITY – SEPTIC SYSTEM IMPROVMENTS

Marine & Environmental Affairs Facility. The present onsite septic system has reached its life expectancy and needs replacement. The system has required pumping-out five times recently.

Source of Funding: Expiring Capital Appropriations

\$75,000 FOR STRUCTURES AND GROUNDS BUILDING CONNECTION TO TOWN SEWER

The existing Structures & Grounds building was constructed over 25 years ago and is in need of renovations and upgrades to extend its useful life. Although it has a number of needs, the first is replacement of the onsite septic system which, like the MEA facility, has reached its life expectancy and requires replacement.

Source of Funding: Capital Trust Fund Reserves

\$115,000 FOR OCEAN STREET HYANNIS PARKING LOT

Parking areas, whether associated with a Municipal facility or Beach area are often the first contact that residents and visitors have with the Town. Most of our parking areas consist of the original pavement surface which, in addition to being worn out on the surface is often of inadequate thickness and has little gravel base support. Attempts to maintain the parking lot surfaces by means of crack sealing and pavement overlays are not recommended as these areas are too far deteriorated and money would be wasted on short term fixes. Reclamation (grinding up) of existing surfaces, to alleviate pot holes and uneven areas, and paving with an adequate thickness of asphalt will ensure useable, safe and aesthetically pleasing “gateways” to our Town facilities. This year’s project will include only the Ocean Street parking area. Other priority sites will be addressed in subsequent years.

Source of Funding: Expiring Capital Appropriations

\$348,000 FOR SCHOOL FACILITY IMPROVEMENTS

This proposal consists of the following five projects:

- 1. Bathroom Stall Replacements at BIS, Centerville, Hyannis West, BWB, BCHMCPS.** This project will allow us to replace rusted, skewed, and non-conforming bathroom stall partitions at the above schools. The bathrooms in all of our schools, especially the elementary schools are ORIGINAL to the building. BIS was installed during the renovation 20 years ago. These stalls have served us well, but the time is now to replace them. In the elementary schools, the stall partitions have been repaired many times, and in some cases, have gaping holes in them, not allowing our young students the dignity and security they deserve and require when using the bathroom facilities. The doors do not latch properly and the cracks between the partitions allow youngsters to peer in on their friends while they are in what should be a private moment. The district has gone through MANY toilet tissue suppliers, and there are numerous mounting holes left exposed from the myriad of different tissue dispensers. We now have standardized a supplier, so this will not likely occur again. Since these schools were built before the Americans with Disabilities Act, there were no handicap stalls designed. When this was required, the Maintenance Dept just removed a partition, removed a toilet, and added a couple of hand rails and it was deemed ADA Compliant. This also will be rectified with this project. As for BIS, the materials used for these partitions were inferior and have rusted away. In some cases, the rust has left holes and is a danger to students cutting themselves. If approved, this project will replace all of the stall partitions with a recycled high density plastic material. This material will not rust or corrode and will be easily cleaned. **Total cost is \$132,000.**

- 2. Tennis Court Renewal at Barnstable High School and West Villages.** This project will fund renewal and maintenance on the tennis courts at these two schools. If they go any longer, a full rebuild will be needed at costs of up to \$500,000. The tennis courts at BHS serve an entire community, not just school needs. Starting in early spring and running until early December, these courts are used by sports, tennis instruction by Coach Smith, senior tennis matches most mornings. If one drives by they will see the courts in action from 7 AM until dark on most days. This valuable asset must be maintained. Right now we have minor cracks showing up. As these cracks widen, (anything over 1/8") they allow water to permeate the surface and wash out the base. As this happens year round, the water infiltrates and in the winter freezes and the surface cracks and becomes a safety hazard for tripping and falling. At this point, the courts can be resurfaced and sealed for a modest sum of money versus a rebuild. Maintaining what we have is far less expensive than having to design and rebuild. **Total cost is \$55,000.**
- 3. Electrical Upgrades To School Facilities.** This project will upgrade electrical panels, service and maintain safety in our school buildings. Technology has grown many-fold since our schools were built. Once a 200 amp panel was sufficient. Now with computers, audio-visual equipment, food preparation equipment and building systems, electrical service is not adequate. Several schools have electrical panels that no longer carry the UL listing since they are deemed unsafe and have been suspect in causing fires. Numerous classrooms have only one or two receptacles for power. Circuit breakers have been "piggy backed" for lack of space in panels. The Maintenance Department cannot operate a saw and vacuum at the same time as we will trip circuit breakers. Our yearly fire inspections note continuously that we have power strips and extension cords unsafely running across the floors. To maintain the safety of the occupants of the buildings, we need to provide adequate service that will not overload and trip out, and rid our schools of dangerous power strips and trip hazard cords. **Total cost is \$55,000**
- 4. Interior Painting of BHS and BIS.** In the past years, interior painting has been done sporadically, usually when renovations have made it necessary. We are now working on having the interior of BHS painted. It has not been done since the 1999 remodel, and some areas in over 20 years! The fresh look has done wonders. Most of our buildings have not seen fresh paint in years! This project will address sprucing up the buildings over a five year period starting with BHS and BIS. **Total cost is \$50,000.**
- 5. BCHMCPS Upgrades and Repairs.** This project will address the rotted trim and fascia boards, gutters, new down spouts and masonry repairs of BCHMCPS located on Bearse's Way Hyannis. The school, aka Hyannis East Elementary, was built in 1950 and has been a fine building for us. The original roof was replaced about 20 years ago and little else has been done until two years ago. At that time, we made a commitment to the building and replaced the entire heating system and last year, we had all of the asbestos abated. Now we need to tend to the structural needs. The building has most of the fascia and trim boards rotted beyond repair. The gutters have fallen askew and the down spouts have also fallen off. This allows the water to drain off the roof in all areas and splash to the ground at the foundation line, infiltrating into the crawl space area under the building. This is not only a nuisance, but unhealthy inasmuch as we can attribute it to mold and mildew growth. We also will address the failing masonry joints at the lintels, corners and façade where the mortar has disintegrated and crumbled, leaving large gaps in the bricks. Any excess funds will be used for similar type exterior repairs at our other elementary schools.

Source of funding: Expiring Capital Appropriations

b. ENTERPRISE FUND CAPITAL PROJECTS (Proposed Projects *Totaling \$4,437,102*)

\$800,000 FOR RUNWAY 6 ENGINEERED MATERIAL ARRESTING SYSTEM (EMAS) RETROFIT/RECONSTRUCTION

The original Runway 6 Engineered Material Arresting System (EMAS) bed was installed in 2003 to prevent concerns related to aircraft overshoots and undershoots on runways that do not meet FAA Runway Safety Area (RSA) requirements. The installation on Runway 6 primarily consists of light weight concrete blocks with a concrete cement top board. This project would consist of conducting a field strength test, and if suitable, replacing the existing top board with a new and improved top board and/or reconstruction as may be required. The Barnstable Municipal Airport (BMA) EMAS is a “first generation” system with a projected 10-year lifespan. The BMA was visited by the Engineered Arresting Systems Corporation (ESCO), who originally installed Runway 6 EMAS bed, in 2009 as part of an FAA project to investigate and determine if airports which have EMAS beds are qualified to receive this new top board. It was determined that Barnstable Municipal Airport is eligible for this replacement. This new top board will extend the life of the EMAS bed and provide better adherence of paint requiring less maintenance by the Airport.

Source of Funding: : FAA Airport Improvement Program and/or Discretionary grant funds (90%), MassDOT grant (5%); and Airport Reserves (5%)



Engineered Material Arresting System (EMAS) bed

\$400,000 FOR RUNWAY 15 RUNWAY VISUAL ZONE (RVZ) CLEARING – PHASE 2

The Runway Visibility Zone (RVZ) should be cleared of obstructions to enhance aviation safety. This phase of overall project completes the design for removal of existing vegetation and completes tree clearing to enhance aviation safety by clearing obstructions from within the Runway Visibility Zone (RVZ) that pose risks to aircraft operations. All land within the airport boundaries must comply with land uses permitted by the Federal Aviation Administration (FAA). The RVZ is a line of sight safety requirement established by the FAA for pilots to be able to view crossing air traffic on runways while operating on an adjacent or connecting runway in order to prevent runway or mid-air collisions. The RVZ is located on the northeast side of the airport, between both runways and is bounded by wetland buffer zones surrounding the Upper Gate Pond and Lewis Pond with tree growth that directly impedes the ability of pilots to see other aircraft operating in the airport environment, particularly during the hours between 10:00PM and 6:00AM when the Air Traffic Control Tower is not manned and the airport operates essentially as uncontrolled airspace.

Source of Funding: FAA Airport Improvement Program and Discretionary grant funds (90%), MassDOT grant (5%); and Airport Reserves (5%)

in greater detail in the August 2010 Draft Master Plan, and are required by the Town of Barnstable Growth Management Department and Water Department.

Source of Funding: MassDOT AD ASMP grant (80%), with the Airport Reserves (20%). (Potential betterments, impact fees, user fees, development fees, connection fees, and so forth, to be developed.)

\$200,000 FOR AIRPORT PASSENGER TERMINAL ENHANCEMENTS (CANOPY, IRRIGATION SYSTEM AND SIGN).

The recently constructed Airport passenger terminal is a wonderful new fully operational structure, built on a limited budget, and is in need of a few additional enhancements to ensure that we continue to operate a safe, comfortable and efficient facility for the benefit of our customers – whether they are passengers on our air carriers, or they are tenants that operate within the new terminal, or they are employees of the airport. In FY2013, we are recommending adding back into the project an exterior canopy over the Air Carrier areas, adding back into the project a new irrigation system, and adding an additional “Welcome to Cape Cod” sign on the air side of the terminal. During the design and construction phases of the new passenger terminal, many items in the original design were either eliminated or reduced in size in order for the project to remain within budget. This included such items as a new baggage carousel, exterior canopies over the Air Carrier operating areas, extended ticketing baggage belt, polished concrete instead of terrazzo floors, brick exterior siding instead of terra cotta wall cladding, elimination of an expensive landscape irrigation system, and so forth. This project is to continuously review the operational status of the facility and as funding permits to add some of these amenities back into the new terminal and surrounding grounds, and add enhancements as necessary.

Source of Funding: For FAA and MassDOT eligible issues, FAA Airport Improvement Program grant funds (90%), MassDOT Aeronautics grant (5%) and Airport Reserves (5%); potential increase in Passenger Facility Charges (PFCs), and/or Customer Facility Charges (CFCs). For ineligible items, full cost would be born by the Airport Reserves.

\$80,000 FOR DREDGING GATEWAY MARINA

The project consists of dredging the area in the vicinity of the Gateway Marina located behind the Maritime Museum in Hyannis. The area around and leading to the floats at the Gateway Marina has become increasingly shallower. It is becoming more difficult to access the marina during periods of low water.

Source of Funding: Marina Enterprise Fund Reserves

\$1,050,000 FOR PIPE REPLACEMENT AND UPGRADE PROGRAM

This 30-year phased improvement program is a continuous pipe replacement and upgrade program for the Hyannis Water System as recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan. It is appropriate to implement a structured program to replace and upgrade the water pipes in the distribution system, some of which are approaching 100 years of age. 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 \$1,050,000 per year; and includes a capially funded water works project manager, to oversee and implement this program in coordination with the Town roads program and other public utilities. The FY 2013 phase of the program will involve the water distribution system for Hyannis, Hyannis Port and West Hyannis Port sections of the Town.

Source of Funding: Water Enterprise Fund borrowing authorization.

\$50,000 FOR DESIGN OF WATER MAIN LOOPING AND CONNECTION FROM HIGHLAND STREET TO COOK CIRCLE

This water works project will provide for looping the water main from Highland Street to Cook Circle with 2000 feet of new ductile iron water main.

Source of Funding: Water Enterprise Fund reserves

\$1,070,000 FOR CONSTRUCTION OF A NEW 8" WATER MAIN ON SCUDDER AVENUE IN HYANNIS PORT FROM GREENWOOD AVENUE TO CRAIGVILLE BEACH ROAD.

This water works project will replace the existing 6" unlined, cast iron water main on Scudder Avenue installed around 1927 with a ductile iron, cement lined water main.

Source of Funding: Water Enterprise Fund borrowing authorization.

\$80,000 FOR DESIGN AND PERMITTING HYANNIS PORT WELL

This project will construct a test well and provide for the design and permitting for a new well adjacent to the existing well which was found to be in deteriorated condition. This project was recommended by Tighe & Bond Engineers, Maher Well Services and United Water, our operations contractor, after standard well rehabilitation, found that the well had major corrosion problems between the well casing collar and the screen. A temporary repair was done in December 2010.

Source of Funding: Water Enterprise Fund reserves

\$67,600 FOR DESIGN OF OCEAN STREET WATER MAIN

This water works project will provide for the upgrade of the water main on Ocean Street from Main Street to Channel Point Road in conjunction with the Town's plans for the area.

Source of Funding: Water Enterprise Fund reserves

\$96,502 FOR PAYING OFF EMERGENCY GENERATOR PURCHASE

This expenditure will provide for full ownership of two (2) emergency power generators leased and installed by the County after the discovery of Perchlorate contamination at the Barnstable County Fire Training Academy.

Source of Funding: Water Enterprise Fund reserves (\$12,226) and expiring capital appropriations (\$84,276)

\$77,000 FOR WASTE WATER PROJECTS DESIGN

This proposal consists of the design of the following three waste water projects:

- 1. Upgrade/Replacement of Staff Locker Room at the Sewer Plant.** The locker room serves as a changing, showering, lunch and division meeting center. Given the nature of wastewater operations, the staff needs a facility in order to clean up after work. The present locker room is a trailer put into service in the early 1980's and moved in 1997. The trailer is a conglomeration of parts and is of dubious construction. At 25 years old, it is the end of its serviceable life. During the summer of 2010, the entire front exterior wall was replaced, including its siding, plywood, studs, insulation and interior wallboard, all of which had rotted away. **Total design cost is \$30,000**

2. Bearse's Way Vacuum Station Back-Up Pump. The present pump station is now seven years old and is in good operating order. However there is no back up pump. During school vacations and the summer season the two pumps now in operation are both forced to run together at times to maintain the necessary vacuum. If one vacuum pump should fail, the system will fail. The concern is that as the equipment ages one of the vacuum pumps will fail. The present plan is to quickly install a spare pump that is stored on site, purchased FY2009, this would take a day or two. This procedure is too problematic to maintain reliable service to the customer base. The Cape Codder, Holiday Inn, Cape Crossroads Condominiums, Christmas Tree complex and Marriott Hotel are all on this system and therefore demand a reliable disposal system. Eventually one of the existing vacuum pumps will fail and possibly result in back-up and overflow of raw sewage to homes, businesses, and roadways resulting in a health hazard. **Total design cost is \$23,000**

3. Generator Storage Building. The Water Pollution Control Division has 6 large portable generators which must be available for use throughout the community to provide emergency power for the sewer pump system and need to be stored in a secure and dry area and be ready for use during poor weather. Currently the generators are stored in poor conditions which can deteriorate the equipment and thus not be available for use. It is proposed to design a new building which will provide the necessary level of protection. **Total design cost is \$24,000**

Source of Funding: Waste Water Enterprise Fund reserves

D EXHIBIT 1

COMPLETE LISTING OF CAPITAL IMPROVEMENT PROJECTS FOR FY 2013

PROJECT NUMBER	DEPT PRIORITY	DEPT	DIV	FY 2013 PROJECT TITLE	FY 2013 SOURCE OF FUNDING			FIVE YEAR COSTS					PROJECT TOTALS				
					General Fund		Enterprise Fund	2013	2014	2015	2016	2017					
					Cash	Borrow								Combination GF Grant, CPA CPC, BETMINTS	Surplus/ Reserve	Combination EF CRS, FAA AIP MDOT, etc	
ENTERPRISE FUND PROJECTS																	
AIR 13	1	Airport	AP	Test, Design & Reconstruct Runway 6 Engineered Material Arresting System (EMAS)				40,000		760,000	800,000					800,000	
AIR 13	2	Airport	AP	Runway 15 Visual Zone (RVZ) Clearing Phase 2				20,000		380,000	400,000					400,000	
AIR 13	3	Airport	AP	Replace Snow Removal Equip (SRE) & Aircraft Rescue and Fire Fighting Equip (ARFF)				20,000		380,000	400,000		290,000		650,000	1,880,000	
AIR 13	4	Airport	AP	East Ramp Sewer Extension Design & Construct				13,200		52,800	66,000	595,000				661,000	
AIR 13	5	Airport	AP	New Airport Terminal (Arrival Canopy, Irrigation Sys, Welcome Sign)				10,000		190,000	200,000					200,000	
AIR 13	6	Airport	AP	New Fuel Farm								810,000				810,000	
AIR 13	7	Airport	AP	Design & Construct Main Terminal Ramp 220,000 sq ft Phase 2 & 43,000 sq ft Deicing Pad								4,200,000				4,200,000	
AIR 13	8	Airport	AP	Design & Construct Taxiway Alpha Relocation from Taxiway Delta to End of Runway 15								2,800,000				2,800,000	
AIR 13	9	Airport	AP	Airport Utilities GIS Survey								300,000				300,000	
AIR 13	10	Airport	AP	FAA Part 150 Noise Exposure Map Update								75,000				75,000	
AIR 13	11	Airport	AP	Runway and Taxiway Crack Repair Program								100,000	100,000	100,000	100,000	400,000	
AIR 13	12	Airport	AP	Permit, Design, Rehab and Extend East Ramp								600,000	600,000	4,000,000		4,600,000	
AIR 13	13	Airport	AP	Design & Reconstruct Taxiway Charlie									2,300,000			2,300,000	
AIR 13	14	Airport	AP	Design & Construct New T-Hangar									650,000			650,000	
AIR 13	15	Airport	AP	Design & Construct Relocated Taxiway Bravo and Rebuild Taxiway Delta Stub										3,500,000		3,500,000	
AIR 13	16	Airport	AP	Reconstruct Runway 15-33 and Taxiway Echo										5,500,000		5,500,000	
AIR 13	17	Airport	AP	Land Acquisition for Runway 33 Safety Area/Protection Zone (RSA/RPZ)										2,500,000		2,500,000	
AIR 13	18	Airport	AP	Reconstruct Runway 6-24											5,000,000	5,000,000	
TOTAL AIRPORT																	
CS 13	1	Cmty Services	MEA	Gateway Marina Dredging				103,200		1,762,800	1,866,000	9,420,000	3,940,000	15,600,000	5,750,000	5,750,000	36,576,000
CS 13	2	Cmty Services	MEA	Barnstable Inner Harbor Dredging				80,000			80,000			750,000		1,200,000	
CS 13	3	Cmty Services	MEA	Prince Cove Bulkhead Repair								1,200,000				450,000	
TOTAL COMMUNITY SERVICES MARINA & SANDY NECK																	
DW 13	1	Public Works	SW	Support Building Emergency Generator				80,000			80,000	1,200,000	450,000	750,000			2,480,000
DW 13	2	Public Works	SW	Maintenance Garage Emergency Generator				75,596			75,596						75,596
DW 13	3	Public Works	SW	Roll-off Truck				66,146			66,146						66,146
TOTAL PUBLIC WORKS SOLID WASTE																	
PW 13	1	Public Works	WS	Pipe Replacement & Upgrade				321,742			321,742						321,742
PW 13	2	Public Works	WS	Water Main Looping & Connection (Highland St to Cook Circle) (FY13 design)				1,050,000			1,050,000	1,050,000	1,050,000	1,050,000	1,050,000	5,250,000	
PW 13	3	Public Works	WS	Construct New 8" Water Main on Scudder Ave (Greenwood Ave to Craigville Beach Rd)				54,000			54,000	540,000				594,000	
PW 13	4	Public Works	WS	Hvannis Port Well Repair (FY 13 design & permitting)				1,070,000			1,070,000					1,070,000	
PW 13	5	Public Works	WS	Ocean Street Water Main Upgrade (FY 13 design)				38,000			38,000					38,000	
PW 13	6	Public Works	WS	Pay off Lease Emergency Generators (\$84.3K from prior projects remainder fm Reserve)				67,600			67,600	676,400				744,000	
TOTAL PUBLIC WORKS WATER SUPPLY																	
PW 13	1	Public Works	WPC	Staff Locker Room - Upgrade/Replace (FY13 design & bid)				28,000			28,000	160,000					188,000
PW 13	2	Public Works	WPC	Bearse's Way Vacuum Station - Back-up Vacuum Pump (FY13 design & bid)				20,000			20,000	80,000					100,000
PW 13	3	Public Works	WPC	Generator Storage Building (FY13 design & bid)				22,900			22,900	108,800					131,700
PW 13	4	Public Works	WPC	Evaluate Pretreatment Bldg Walls & Channels & Clarifier Steel Work - Resurface & Paint								240,000					240,000
PW 13	5	Public Works	WPC	T.O.C. & >.4mg/l Total nitrogen Effluent Evaluation								800,000		10,000,000			10,800,000
PW 13	6	Public Works	WPC	Sewer System Expansion Areas of Concern (FY14 AOC CE4 Lake Wequaquet Area)								46,890,000	550,000	5,500,000	590,000		53,530,000
PW 13	7	Public Works	WPC	Sewerage Building Capacity Upgrade								100,000	350,000	3,500,000			3,950,000
TOTAL PUBLIC WORKS WASTE WATER																	
TOTALS - ENTERPRISE FUNDS																	
								583,185		2,120,000	1,762,800	4,787,727	61,265,200	6,340,000	36,400,000	7,390,000	116,182,927

D EXHIBIT 1

COMPLETE LISTING OF CAPITAL IMPROVEMENT PROJECTS FOR FY 2013

PROJECT NUMBER	DEPT PRIORITY	DEPT	DIV	FY 2013 PROJECT TITLE	FY 2013 SOURCE OF FUNDING					FIVE YEAR COSTS					PROJECT TOTALS	
					General Fund		Enterprise Fund		2013	2014	2015	2016	2017			
					Cash	Borrow	Combination GF Grant, CPA, CPC, BETMINTS	Surplus/Reserve						Borrow		Combination EF CRS, FAA AIP, MDOT, etc
GENERAL FUND PROJECTS																
AD 13	1	Admin Services	FI	Permanent Records Archive	90,000						90,000				90,000	
AD 13	2	Admin Services	IS	Arial Flyover & Mapping Update								100,000			208,000	
AD 13	3	Admin Services	IS	Summer Arial Flyover of Waterways										86,500	86,500	
TOTAL ADMINISTRATIVE SERVICES GENERAL FUND					90,000	-	-	-	-	-	90,000	-	100,000	86,500	384,500	
CS 13	1	Cmty Services	CS	Beach House Renovations (FY 2013 Hathaway's Pond)	84,130						84,130	3,488,152	1,553,760	3,087,477	9,230,759	
CS 13	2	Cmty Services	CS	Senior Center Parking Lot Expansion	232,000										232,000	
CS 13	3	Cmty Services	CS	Bay Street Ramp Repairs (FY 12 Design)	25,000						25,000	150,000			175,000	
CS 13	4	Cmty Services	CS	West Bay Breakwater Repair	75,000						75,000		2,000,000		2,075,000	
CS 13	5	Cmty Services	CS	West Barnstable Tennis Courts (2) - Reconstruct	168,000						168,000				168,000	
CS 13	6	Cmty Services	CS	Cotuit Tennis Courts (2) - Reconstruct	168,000						168,000				168,000	
CS 13	7	Cmty Services	CS	MEA Facility Upgrade (FY 13 new septic system or sewer connection)	85,000						55,000	94,600	114,000	219,500	483,100	
CS 13	8	Cmty Services	CS	Lombard Field Improvements (FY 13 design - press box, parking lot expand, bleachers, etc.)	44,000						44,000	295,000			339,000	
CS 13	9	Cmty Services	CS	MEA Bldg Addition	144,849						144,849	830,308			975,157	
CS 13	10	Cmty Services	CS	Senior Center Café Construct	142,385						142,385				142,385	
CS 13	11	Cmty Services	CS	Lowell Park Comfort Station Replacement (FY 13 design)	95,668						95,668	477,202			572,870	
CS 13	12	Cmty Services	CS	West Barnstable Community Building Interior Improvements	175,326						175,326				175,326	
CS 13	13	Cmty Services	CS	Centerville Community Building Improvements (FY 13 painting and replace fire escape)	80,000						80,000	128,000	100,000	191,500	715,700	
CS 13	14	Cmty Services	CS	Hyannis Breakwater Repair (FY 13 design & permitting)	75,000						75,000	1,400,000			1,475,000	
CS 13	15	Cmty Services	CS	Bismore Park Phase II - Site Improvements (FY13 design)	55,000						55,000	540,000			595,000	
TOTAL COMMUNITY SERVICES GENERAL FUND					1,619,358	-	-	-	-	-	1,619,358	6,003,262	5,167,760	3,498,477	1,233,440	17,522,297
COL 13	1	Police	FDL	Police Facility Improvements	225,800						225,800				225,800	
TOTAL POLICE - GENERAL FUND					225,800	-	-	-	-	-	225,800	-	-	-	225,800	
PW 13	1	Public Works	PW	Public Roads Maintenance	3,250,000						3,250,000	3,250,000	3,250,000	3,250,000	16,250,000	
PW 13	2	Public Works	PW	Highway Building Roof Replacement (design & construct)	60,000						60,000				60,000	
PW 13	3	Public Works	PW	Emergency Center Highway Bldg Generator Replacement		287,300					287,300				287,300	
PW 13	4	Public Works	PW	West Bay Bridge Repairs		498,842					498,842	718,842	1,025,200		2,242,884	
PW 13	5	Public Works	PW	School Street Hyannis Bulkhead	50,000						50,000	136,000			186,000	
PW 13	6	Public Works	PW	Sidewalk Construction Program (Ost/West Barn Rd & Cherry St.Hy)	70,000						70,000	250,000	250,000	250,000	1,070,000	
PW 13	7	Public Works	PW	Town Hall Interior Improvements (FY13 phases 1A stairwell & 1B design interior renovation)		620,000					620,000	1,000,000	1,000,000	1,000,000	3,620,000	
PW 13	8	Public Works	PW	West Main & Pitchers Way Intersection Signal Upgrade	33,030						33,030	297,290			330,320	
PW 13	9	Public Works	PW	Survey Field Equipment & Mapping Software	64,349						64,349				64,349	
PW 13	10	Public Works	PW	200 Main Street Building Improvements (basement, 1st & 2nd floors)		335,271					335,271	4,691,419			5,026,690	
PW 13	11	Public Works	PW	Structures & Grounds Facility Upgrade	153,000						153,000	80,000	82,000	71,100	187,000	
PW 13	12	Public Works	PW	School Administration Bldg - Mechanical Sys Improvements (FY13 design Phase 1)		312,340					312,340	1,250,000	1,561,700		3,124,040	
PW 13	13	Public Works	PW	Public Town Hall (FK Museum) Repairs (painting, electrical, roofing, windows, bathroom/FY13 design)	51,000						51,000	195,000			246,000	
PW 13	14	Public Works	PW	Bumpas River Bridge Repair (deck, sidewalks, guard rails) (FY13 design)	28,825						28,825	111,181			140,006	
PW 13	15	Public Works	PW	Traffic Calming Measures	50,000						50,000	50,000	50,000	50,000	250,000	
PW 13	16	Public Works	PW	Mosswood Cemetery Building Improvements (handicap bathroom facilities & employee wash-up)		301,272					301,272				301,272	
PW 13	17	Public Works	PW	Parking Lot Improvements (FY13 Ocean st., Veterans Beach, Kennedy Memorial parking lots)	640,139						640,139	200,000	200,000	200,000	1,440,139	
PW 13	18	Public Works	PW	Highway Div Bldgs - Phase III Improvements (FY13 div mgr offices, employee lockers & showers)	687,910						687,910	743,400	4,496,250	500,000	6,427,560	
PW 13	19	Public Works	PW	Travser Museum Repairs	40,000						40,000	181,019			221,019	
PW 13	20	Public Works	PW	Burgess House Improvements (FY13 design & permitting)	91,064						91,064	343,756			434,820	
PW 13	21	Public Works	PW	Burgess Barn (FY13 design & permitting)	99,356						99,356	379,810			479,166	
PW 13	22	Public Works	PW	Guyer Barn Improvements (electrical, plumbing, HVAC)	140,466						140,466				140,466	
PW 13	23	Public Works	PW	Old Jail Repairs - Exterior & Site Repairs (FY13 design)	35,031						35,031	136,062			171,093	
PW 13	24	Public Works	PW	Travser Museum Carriage House Repairs (exterior enclosure, roofing, electrical, etc) (FY13 design)	51,616						51,616	138,720			190,336	
PW 13	25	Public Works	PW	50 Pearl Street Improvements (Roof, window restoration, electric modifications, etc)	115,301						115,301				115,301	
PW 13	26	Public Works	PW	46 Pearl Street Improvements (Roof, chimney, electrical, plumbing, heating, etc)	67,505						67,505				67,505	
PW 13	27	Public Works	PW	Roadway Guardrails (FY13 various locations Hyannis, Hyport, Centerville & Osterville)		297,000					297,000	100,000	100,000	100,000	697,000	
PW 13	28	Public Works	PW	Dowdes Beach Handicapped Pier Addition (add 40 feet to end)	35,000						35,000		210,000		245,000	
PW 13	29	Public Works	PW	Police Facility Town Sewer Connection								200,000			200,000	
PW 13	30	Public Works	PW	Main Street Hyannis (reconstruct two sections- Center to Park Sq & Sherman to West End)								700,000	1,242,000		1,942,000	
PW 13	31	Public Works	PW	Parkers Pond Osterville Dredging (FY14 Permitting)								40,000	1,300,000		1,340,000	
PW 13	32	Public Works	PW	Route 132 Town Section -Bearse's Way to Rotary (design & reconstruct)								500,000	5,000,000		5,500,000	
PW 13	33	Public Works	PW	Coastal Discharge Mitigation (various locations - Cotuit, Osterville & Barnstable)								250,000	250,000	250,000	1,000,000	
PW 13	34	Public Works	PW	Private Roads - Acceptance & Taking (Mary Dunn Barn, Old Strawberry Hill Cent & Wakeby MM)							250,000	1,208,000	1,024,000	1,770,000	4,250,000	
PW 13	35	Public Works	PW	Private Road Drainage Repair - 57 Stub Toe Road	43,500						43,500				43,500	
PW 13	36	Public Works	PW	Private Road Drainage Repair - 70 Homeport Drive Centerville	37,026						37,026				37,026	
TOTAL PUBLIC WORKS					4,566,069	3,980,074	-	-	-	-	8,796,143	17,148,499	21,041,150	7,441,100	4,287,000	58,713,892
RS 13	1	Reg Services	RS	Long Pond Centerville & Mystic Lake MM Hydrilla Control	30,000						30,000				60,000	
RS 13	2	Reg Services	RS	Lovell's Pond Diagnostic Feasibility Study	50,000						50,000				100,000	
RS 13	3	Reg Services	RS	Snow's Creek Restoration (Outlet replacement & dredging -permitting & design)	75,000						75,000				150,000	
RS 13	4	Reg Services	RS	Shooting Range Improvements (Noise abating berm & new pistol range-design & const)	195,000						195,000				390,000	
TOTAL REGULATORY SERVICES					350,000	-	-	-	-	-	350,000	30,000	-	-	770,000	
SCH 13	1	Schools	SCH	BIS, BCHMCPs, BWB, Centerville & Hyannis West - Replace Bathroom Stall Particians	132,000						132,000				132,000	
SCH 13	2	Schools	SCH	BHS Tennis Court - Repair & Resurface	50,500						50,500				50,500	
SCH 13	3	Schools	SCH	All Schools (as needed) Electrical Upgrades	55,000						55,000				55,000	
SCH 13	4	Schools	SCH	Interior Painting (FY13 BHS & BIS)	50,000						50,000				50,000	
SCH 13	5	Schools	SCH	BCHMCPs Exterior Upgrades & Repairs (rotted trim, gutters, down spouts, etc)	56,000						56,000				56,000	
SCH 13	6	Schools	SCH	BHS Performing Arts Center - Renewal Stage & Rigging	105,000						105,000				105,000	
SCH 13	7	Schools	SCH	HMCS 4/5 - Install NORA flooring 11 Classrooms, Ramps & Library	235,000						235,000				235,000	
SCH 13	8	Schools	SCH	BIS, BWB & Centerville Elementary -VAT & Carpet Replacement	235,000						235,000				235,000	
SCH 13	9	Schools	SCH	Barnstable Early Learning Center (BHS) - Replace Flooring in Hallway	55,000						55,000				55,000	
SCH 13	10	Schools	SCH	BCHM CPS & Centerville - Playground Equipment Upgrade	190,000						190,000				190,000	
SCH 13	11	Schools	SCH	BHS,BIS & HMCS 4/5 - Athletic Safety Upgrades	195,000						195,000				195,000	
SCH 13	12	Schools	SCH	All Schools - Upgrade & Replace Old/Defective Kitchen Equipment	75,300						75,300	62,500	67,500		205,300	
SCH 13	13	Schools	SCH	BHS,BIS & HMCS 4/5 - Parking Lot Maintenance & Repair	110,000						110,000				110,000	
SCH 13	14	Schools	SCH	District Wide - Upgrade HVAC Systems	245,000						245,000	235,000	90,000	55,000	680,000	
SCH 13	15	Schools	SCH	Various Schools - Improve Safety (FY13 BHS & Hyannis West)	100,000						100,000	125,000	75,000	75,000	450,000	
SCH 13	16	Schools	SCH	Various Schools - Exterior Masonry/Flashing Repairs (FY13 BHS)	145,000						145,000	350,000	350,000	255,000	1,295,000	
SCH 13	17	Schools	SCH	Centerville Elementary - Window Replacement (FY13 Bldg 4)		300,000					300,0					

PART II. CAPITAL TRUST FUND 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. In essence, this capital is financed through general taxation and user fees. All projects approved as part of this program have been financed with debt issues whose annual debt service payments are **not** excluded from the Proposition 2½ taxing limitations, or they are financed on a "pay-as-you-go" basis. Additionally, this fund in most cases is not the funding source for enterprise fund capital improvements. Enterprise funds traditionally pay 100% of their capital cost which is recovered through user fees. Enterprise fund capital improvements may be funded from general taxation, which is a policy decision. The two exceptions are the borrowing authorizations for the construction of the Hyannis Youth & Community Center (HYCC) and a portion of the borrowing authorizations for the Barnstable Harbor Marina bulkhead replacement.

The FY13 general fund Capital Improvement Program includes a combination of "pay-as-you-go" or cash financing and the transfer of unexpended project balances from previous capital appropriations which remain after project completion. The cash financing portion of the program pays mainly for road improvements with direct cash outflows from the unreserved portion of the CTF balance, after annual debt service requirements are met. This "pay-as-you-go" financing approach saves the Town thousands of dollars in the form of interest cost, provides the opportunity to have some capital program on an annual basis, and provides flexibility in its budgeting. With just a debt service program, the fund 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 resource allocation as future cash flows are committed to fixed annual loan payments.

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 or allocate \$1 million per year towards new debt service. This would pay for a bond issue of approximately \$7.7 million over 10 years.

Furthermore, the annual contribution from the general fund to the CTF could be decreased by the cash program portion, if the need for funding general fund operations is determined to be greater than the need for capital. There are an infinite number of scenarios that can be created to allocate the annual cash flow of the CTF between a cash and borrowing program.

The annual contribution to the CTF has grown from \$1.9 million per year to \$6.725 million. This amount is projected to increase by 2.5 percent per year 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 annual contribution are examined every year, however, to ensure its sustainability will most likely require fewer resources allocated to operating activities.

Table A demonstrates the CTF cash flow incorporating the FY13 proposed capital improvement program. Tables B and C provide the detailed amortization of the existing loan authorizations for both issued and unissued debt service associated with capital projects already approved by the Town Council.

TABLE A – PREVIOUSLY AUTHORIZED PROJECTS AND FY13 PROPOSED PROJECTS

This table illustrates the Capital Trust Fund’s (CTF) previously authorized projects as well as the recommended projects for FY13. The total projects previously authorized amount to \$116 million. Of this total, \$80 million (69%) has been financed through borrowing authorizations and \$36 million (31%) has been financed under the “pay-as-you-go” method. The administrative code requires that over a 5 year period, at least 10% of all capital appropriations be “pay-as-you-go” financing so that at the end of five years, annual contributions from current revenues amount to 10% of new debt issued. The Town is currently well within this provision.

The total recommended projects for the Capital Trust Fund in FY13 equal \$5,129,000. No new borrowing authorizations are proposed. These projects will be financed with CTF reserves and unexpended project balances from previously authorized projects which have been completed. Assumptions included in the schedule include the following:

- An annual contribution from the General Fund of \$6,725,000; increasing 2.5 percent each year
- A borrowing rate of 3.50% on the one remaining **unissued** borrowing authorizations
- Road betterments collected on private road repairs are added to the Capital Trust Fund to cover the payback of loans issued for the repairs
- Interest rate of 2% to 4% earned on Capital Trust Fund investments
- \$1 million of excess overlay reserves are added to the Capital Trust fund in FY16
- \$1,844,000 of unexpended funds from previously authorized projects that have been completed are used to fund the FY13 program
- \$3.25 million will be allocated to a public road improvement program every year

Under this scenario, the total recommended FY13 capital improvement program can be funded within the 80% limitation of the policy governing the CTF.

TABLE B - PREVIOUSLY AUTHORIZED AND ISSUED DEBT

This table illustrates the existing authorized and issued debt service requirements of the CTF. As these debt service requirements decline annually a lesser amount of the trust fund’s reserves are needed to fund loan payments as illustrated in Table A. The current level of loan payments requires a contribution from reserves to cover them. It isn’t until FY16 that the fund balance of the trust fund begins to grow and additional loans can be added.

TABLE A - PREVIOUSLY AUTHORIZED PROJECTS AND FY13 PROPOSED PROJECTS

Project Name		Project Cost	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19	FY 20	FY 21	FY 22
<u>PREVIOUSLY AUTHORIZED PROJECTS</u>												
<u>ISSUED DEBT</u>			Annual Debt Service									
130	TOTAL GENERAL FUND PROJECTS	\$61,737,689	\$3,772,934	\$3,319,374	\$2,854,243	\$2,741,236	\$2,272,934	\$2,088,198	\$1,910,833	\$1,807,243	\$1,610,587	\$1,178,579
138	TOTAL ENTERPRISE FUND PROJECTS	\$18,090,000	\$1,490,419	\$1,455,154	\$1,421,324	\$1,387,094	\$1,349,484	\$1,314,409	\$1,270,254	\$1,228,634	\$1,192,314	\$1,155,994
140	GRAND TOTAL ALL ISSUED DEBT (130 + 138)	\$79,827,689	\$5,263,352	\$4,774,528	\$4,275,567	\$4,128,330	\$3,622,417	\$3,402,606	\$3,181,087	\$3,035,876	\$2,802,901	\$2,334,573
<u>AUTHORIZED AND UNISSUED DEBT REMAINING</u>												
02-080	Stuart's Creek Dredging	\$329,000	\$48,071	\$46,791	\$45,512	\$44,232	\$42,953	\$41,673	\$40,394	\$39,114	\$37,835	\$0
	Temporary Interest on Bond Anticipation Notes		\$0	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
147	TOTAL AUTHORIZED - UNISSUED DEBT	\$329,000	\$48,071	\$46,791	\$45,512	\$44,232	\$42,953	\$66,673	\$65,394	\$64,114	\$62,835	\$25,000
149	TOTAL AUTHORIZED DEBT SERVICE REQUIREMENTS (140 + 147)	\$80,156,689	\$5,311,423	\$4,821,319	\$4,321,079	\$4,172,562	\$3,665,370	\$3,469,280	\$3,246,481	\$3,099,991	\$2,865,736	\$2,359,573
<u>CASH PROGRAM - NO BORROWING</u>												
	TOTAL PREVIOUSLY AUTHORIZED CASH PROGRAM	\$35,771,522	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
237	GRAND TOTAL - PREVIOUSLY AUTHORIZED PROJECTS	\$115,928,211	\$5,311,423	\$4,821,319	\$4,321,079	\$4,172,562	\$3,665,370	\$3,469,280	\$3,246,481	\$3,099,991	\$2,865,736	\$2,359,573
<u>FY13 PROPOSED PROGRAM</u>												
<u>CASH PROGRAM</u>												
FY13	Public roads program	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
FY13	Emergency generators	\$363,000	\$363,000									
FY13	Municipal and school facility improvements	\$957,000	\$957,000									
FY13	Water quality improvements to ponds	\$80,000	\$80,000									
FY13	Sidewalk overlays	\$70,000	\$70,000									
FY13	Bulkheads, breakwater, culvert, bridge, ramp & museum design	\$294,000	\$294,000									
FY13	Parking lot improvements	\$115,000	\$115,000									
250	TOTAL CASH PROGRAM	\$5,129,000	\$5,129,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
256	GRAND TOTAL PROPOSED FOR FY12 (row 250)	\$5,129,000	\$5,129,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000	\$3,250,000
258	TOTAL CAPITAL TRUST FUND COMMITMENT (237 + 256)	\$121,057,211	\$10,440,423	\$8,071,319	\$7,571,079	\$7,422,562	\$6,915,370	\$6,719,280	\$6,496,481	\$6,349,991	\$6,115,736	\$5,609,573
260	TRUST FUND BALANCE, BEGINNING OF YEAR		\$6,931,301	\$5,455,958	\$4,655,491	\$4,520,528	\$5,719,723	\$6,658,964	\$7,838,468	\$10,298,650	\$12,020,326	\$14,042,123
	INVESTMENT EARNINGS (2-4%)		\$155,954	\$136,399	\$128,026	\$135,616	\$185,891	\$233,064	\$293,943	\$411,946	\$480,813	\$561,685
	ESTIMATED PRIVATE ROAD BETTERMENTS COLLECTED		\$72,000	\$69,000	\$66,000	\$63,000	\$60,000	\$57,000	\$54,000	\$51,000	\$48,000	\$0
	PRIOR YEARS UNEXPENDED APPROPRIATIONS		\$1,844,000									
	ESTIMATED OVERLAY RESERVE CONTRIBUTION					\$1,000,000		\$1,000,000				
	GENERAL FUND BASE APPROPRIATION		\$6,893,125	\$7,065,453	\$7,242,089	\$7,423,142	\$7,608,720	\$7,608,720	\$7,608,720	\$7,608,720	\$7,608,720	\$7,608,720
275	TOTAL CURRENT YEAR RESOURCES		\$8,965,079	\$7,270,852	\$7,436,115	\$8,621,758	\$7,854,611	\$7,898,784	\$8,956,663	\$8,071,666	\$8,137,533	\$8,170,405
277	TOTAL AVAILABLE CAPITAL TRUST FUND (260 + 275)		\$15,896,381	\$12,726,810	\$12,091,606	\$13,142,285	\$13,574,334	\$14,557,748	\$16,795,131	\$18,370,316	\$20,157,859	\$22,212,528
279	TRUST FUND BALANCE, END OF YEAR (277 - 258)		\$5,455,958	\$4,655,491	\$4,520,528	\$5,719,723	\$6,658,964	\$7,838,468	\$10,298,650	\$12,020,326	\$14,042,123	\$16,602,955
	PERCENT OF TRUST FUND COMMITTED (MAX 80%) (258 ÷ 277)		66%	63%	63%	56%	51%	46%	39%	35%	30%	25%

TABLE B – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT

	Project Name	Years Borrowed	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19	FY 20	FY 21	FY 22
PREVIOUSLY AUTHORIZED PROJECTS			Annual Debt Service									
ISSUED DEBT												
95-159	Road Drainage Improvement Program	15	\$32,400	\$31,200	\$0							
97-146	Senior Center	20	\$94,990	\$91,990	\$88,990	\$85,990	\$82,990	\$79,790	\$26,250	\$0		
98-054	BUTAPS	18	\$196,545	\$189,295	\$183,350	\$177,188	\$166,025	\$159,725	\$153,425	\$147,125	\$5,475	\$5,238
98-097	Funding for Dredging Projects	15	\$33,600	\$32,400	\$31,200	\$0						
98-097	Funding for Dredging Projects (Advance Refunding)		\$40,930	\$38,820	\$37,100	\$36,050	\$0					
00-110	Town Hall Space Needs (Advance Refunded)		\$26,930	\$26,300	\$24,880	\$24,280	\$23,680	\$23,080	\$21,280	\$20,520	\$19,760	\$0
00-110	School Asbestos Tile Abatement (Advance Refunded)		\$6,700	\$6,550	\$6,450	\$6,300	\$6,150	\$6,000	\$5,800	\$5,600	\$5,400	\$5,200
00-110	Kennedy Rink Improvements	20	\$19,525	\$14,000	\$13,600	\$13,200	\$12,800	\$12,400	\$12,000	\$11,600	\$11,200	\$10,800
01-087	Town Hall Rehabilitation (Advance Refunded)		\$14,390	\$13,060	\$12,860	\$12,560	\$12,260	\$11,960	\$11,560	\$11,160	\$10,760	\$9,360
01-087	Main Street Hyannis Streetscape	20	\$111,500	\$28,000	\$27,200	\$26,400	\$25,600	\$24,800	\$24,000	\$23,200	\$22,400	\$21,600
02-080	School Health & Safety Improvements	20	\$28,700	\$28,000	\$27,200	\$26,400	\$25,600	\$24,800	\$24,000	\$23,200	\$22,400	\$21,600
02-080	School Facilities Repair	20	\$35,875	\$35,000	\$34,000	\$33,000	\$32,000	\$31,000	\$30,000	\$29,000	\$28,000	\$27,000
02-080	Road Drainage Repairs	20	\$6,775	\$6,600	\$6,400	\$6,200	\$6,000	\$5,800	\$5,600	\$5,400	\$5,200	\$0
02-080	Roundabout - Scudder/Smith/Marstons	18	\$19,525	\$14,000	\$13,600	\$13,200	\$12,800	\$12,400	\$12,000	\$11,600	\$11,200	\$10,800
02-080	Police Facility Addition	20	\$93,275	\$91,000	\$88,400	\$85,800	\$83,200	\$80,600	\$78,000	\$75,400	\$72,800	\$70,200
04-011	Police Facility	20	\$30,720	\$29,720	\$28,720	\$27,720	\$27,020	\$26,320	\$25,580	\$24,820	\$24,044	\$23,245
02-081	Nitrogen Management Program	15	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$82,893	\$0
02-081	Nitrogen Management Program	15	\$33,999	\$33,999	\$33,999	\$33,999	\$33,999	\$34,000	\$33,999	\$33,999	\$33,999	\$0
98-098	Open Space & Recreation	20	\$62,975	\$61,375	\$59,775	\$58,175	\$56,575	\$54,975	\$52,975	\$50,975	\$49,375	\$47,775
03-085	School Health & Safety Improvements	19	\$38,911	\$37,911	\$36,911	\$35,911	\$34,911	\$33,911	\$32,661	\$31,411	\$30,411	\$29,411
03-085	School Facility Repairs	10	\$41,400	\$40,000	\$33,600	\$32,400	\$31,200	\$0	\$0			
03-085	Roof Replacement - MME	19	\$63,185	\$61,585	\$59,985	\$58,385	\$56,785	\$55,185	\$53,185	\$51,185	\$49,585	\$47,985
03-085	Old Town Hall Renovation - Phase II	10	\$35,800	\$34,600	\$33,400	\$32,200	\$26,000	\$0				
05-085	Beach Facility Renovations	15	\$27,119	\$26,319	\$25,519	\$24,719	\$18,919	\$18,319	\$17,569	\$16,819	\$16,219	\$15,619
05-085	School Facility Improvements	15	\$63,350	\$61,550	\$59,750	\$57,950	\$56,150	\$54,350	\$52,100	\$44,850	\$43,250	\$41,650
05-085	BHMCS Roof Replacement	20	\$73,474	\$71,674	\$69,874	\$68,074	\$66,274	\$64,474	\$62,224	\$59,974	\$58,174	\$56,374
05-085	Town Building Repairs	20	\$56,509	\$55,109	\$53,709	\$52,309	\$50,909	\$49,509	\$47,759	\$46,009	\$44,609	\$43,209
06-093	Senior Center Garden Level	20	\$38,905	\$37,905	\$36,905	\$35,905	\$34,905	\$33,905	\$27,655	\$26,655	\$25,855	\$25,055
06-096	School Improvements	15-20	\$49,089	\$47,689	\$46,289	\$44,889	\$43,489	\$37,089	\$35,589	\$29,089	\$28,089	\$27,089
06-097	BHS Cogeneration	10	\$60,000	\$58,000	\$56,000	\$54,000	\$52,000	\$0				
07-061	Bismore Park Facility	15	\$44,601	\$43,516	\$42,431	\$41,346	\$39,951	\$38,789	\$37,316	\$36,076	\$34,836	\$33,596
07-093	GIS Updates	5	\$56,925	\$0								
07-095	Municipal Facilities Improvements	20	\$44,856	\$13,456	\$13,106	\$7,756	\$7,531	\$7,344	\$7,106	\$6,906	\$6,706	\$6,506
07-096	Coastal Discharge Mitigation	10	\$30,675	\$28,800	\$27,960	\$27,120	\$26,040	\$25,140	\$0			
07-097	Lake/Pond Restoration	10	\$30,675	\$28,800	\$27,960	\$27,120	\$26,040	\$25,140	\$0			
07-094	Sidewalk Improvements	5	\$51,750	\$0								
07-099	School Facilities Improvements	20	\$107,188	\$54,213	\$52,988	\$51,763	\$45,188	\$44,063	\$42,638	\$41,438	\$40,238	\$39,038

TABLE B – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT – CONTINUED

	Project Name	Years Borrowed	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19	FY 20	FY 21	FY 22
PREVIOUSLY AUTHORIZED PROJECTS			Annual Debt Service									
ISSUED DEBT												
08-016	Coastal Access Improvement Program	5-20	\$203,121	\$134,556	\$131,196	\$127,836	\$123,516	\$119,916	\$114,356	\$110,556	\$106,756	\$102,956
05-129	Rt. 132 Easment	5	\$12,420	\$0								
08-019	Private Road Repairs	15	\$153,946	\$150,201	\$146,456	\$142,711	\$137,896	\$133,884	\$128,801	\$124,521	\$120,241	\$115,961
07-061	Bismore Park Facility	4	\$15,600	\$15,300	\$0	\$0						
06-094	Police Facility Cell Block Renovations	20	\$40,594	\$40,094	\$39,594	\$39,094	\$37,844	\$36,594	\$35,969	\$34,719	\$33,969	\$33,219
08-108	Municipal Facility Improvements	19	\$85,919	\$84,319	\$7,719	\$7,619	\$7,369	\$7,119	\$6,994	\$6,744	\$6,594	\$6,444
08-110	School Facility Improvements	4	\$260,000	\$255,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
08-109	Mystic Lake Restoration	15	\$27,775	\$27,375	\$26,975	\$26,575	\$25,575	\$24,575	\$24,075	\$23,075	\$17,475	\$17,025
09-010	Barnstable Harbor Dredging	14	\$41,675	\$41,075	\$40,475	\$39,875	\$38,375	\$36,675	\$36,125	\$34,625	\$33,725	\$32,825
09-095	Municipal (15%) & School facilities (85%)	20	\$78,869	\$77,869	\$76,869	\$75,869	\$73,369	\$65,869	\$64,744	\$62,493	\$61,144	\$59,794
10-108	School Parking Lot	10	\$32,500	\$31,750	\$31,250	\$30,500	\$29,750	\$29,000	\$28,000	\$27,000	\$26,000	
10-109	School Facility Improvements	15	\$50,488	\$49,438	\$48,738	\$47,688	\$46,638	\$45,588	\$39,188	\$37,988	\$36,788	\$35,588
10-109	School Facility Improvements	5	\$44,100	\$42,900	\$37,100	\$36,050						
10-110	Municipal Facility Improvements	10	\$39,000	\$38,100	\$37,500	\$36,600	\$35,700	\$34,800	\$33,600	\$32,400	\$31,200	
10-111	West Bay Bridge Repairs	10	\$32,500	\$31,750	\$31,250	\$30,500	\$29,750	\$29,000	\$28,000	\$27,000	\$26,000	
10-112	Boat Ramps	10	\$32,500	\$31,750	\$31,250	\$30,500	\$29,750	\$29,000	\$28,000	\$27,000	\$26,000	
10-113	Comprehensive Wastewater Planning	5	\$133,200	\$129,600	\$127,200	\$123,600						
11-067	Mill Pond Dredging/Wequaquet Mapping	5	\$94,350	\$91,800	\$90,100	\$87,550						
11-068	Sidewalks	10	\$45,500	\$44,450	\$43,750	\$42,700	\$41,650	\$40,600	\$39,200	\$37,800	\$36,400	
11-068	Traffic Calming	5	\$11,100	\$10,800	\$10,600	\$10,300						
11-069	Dredge East Bay Entrance/Boat ramp & Blish Point	10	\$89,750	\$87,650	\$81,250	\$79,300	\$77,350	\$75,400	\$72,800	\$70,200	\$67,600	
11-070	Police Facility Generator	5	\$60,900	\$59,250	\$58,150	\$51,500						
11-071	Price Cove & Hayward Rd Boat Ramps	15	\$59,450	\$58,250	\$57,450	\$56,250	\$55,050	\$53,850	\$52,250	\$50,650	\$49,050	\$47,450
11-072	School Facility Repairs/Upgrades	5	\$16,350	\$15,900	\$10,600	\$10,300						
11-072	School Facility Repairs/Upgrades	15	\$20,413	\$19,963	\$19,663	\$19,213	\$13,763	\$13,463	\$13,063	\$12,663	\$12,263	\$11,863
11-072	School Facility Repairs/Upgrades	15	\$20,963	\$20,513	\$20,213	\$19,763	\$19,313	\$18,863	\$18,263	\$12,663	\$12,263	\$11,863
11-072	School Facility Repairs/Upgrades	10	\$44,700	\$43,650	\$42,950	\$41,900	\$40,850	\$34,800	\$33,600	\$32,400	\$31,200	
11-072	School Facility Repairs/Upgrades	20	\$75,019	\$73,669	\$72,769	\$71,419	\$70,069	\$68,719	\$66,919	\$65,119	\$63,319	\$61,519
11-072	MEA Roof Repair	5	\$27,350	\$21,600	\$21,200	\$20,600						
11-093	Private Road Repairs - Baxter's Neck Rd	15	\$36,225	\$35,475	\$34,975	\$34,225	\$33,475	\$32,725	\$31,725	\$30,725	\$29,725	\$23,725
TOTAL GENERAL FUND PROJECTS			\$3,772,934	\$3,319,374	\$2,854,243	\$2,741,236	\$2,272,934	\$2,088,198	\$1,910,833	\$1,807,243	\$1,610,587	\$1,178,579

TABLE B – CTF DEBT AMORTIZATION SCHEDULE OF AUTHORIZED AND ISSUED DEBT – CONTINUED

		Years										
Project Name		Borrowed	FY 13	FY 14	FY 15	FY 16	FY 17	FY18	FY 19	FY 20	FY 21	FY 22
<i>PREVIOUSLY AUTHORIZED PROJECTS</i>			Annual Debt Service									
ISSUED DEBT												
ENTERPRISE FUNDS												
02-080	Hyannis Youth & Community Center	19	\$865,358	\$844,158	\$822,958	\$801,758	\$780,558	\$759,358	\$732,858	\$706,358	\$685,158	\$663,958
07-150	Hyannis Youth & Community Center	19	\$560,630	\$547,765	\$535,935	\$524,105	\$508,895	\$496,220	\$480,165	\$466,645	\$453,125	\$439,605
09-094	Barnstable Harbor Steel Bulkhead Repair	19	\$64,431	\$63,231	\$62,431	\$61,231	\$60,031	\$58,831	\$57,231	\$55,631	\$54,031	\$52,431
TOTAL ENTERPRISE FUND PEJECTS			\$1,490,419	\$1,455,154	\$1,421,324	\$1,387,094	\$1,349,484	\$1,314,409	\$1,270,254	\$1,228,634	\$1,192,314	\$1,155,994
GRAND TOTAL ALL ISSUED DEBT (130 + 138)			\$5,263,352	\$4,774,528	\$4,275,567	\$4,128,330	\$3,622,417	\$3,402,606	\$3,181,087	\$3,035,876	\$2,802,901	\$2,334,573

PART III. DEBT POSITION ANALYSIS

A. TYPE AND PURPOSE OF DEBT

The Town sells bonds to finance capital improvements and other projects that require large cash outlays. General Obligation Bonds have been sold to fund general capital improvements for various municipal operations such as schools, public works, recreation, and conservation. General Obligation Debt, (G.O.D.), is 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. 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 3% to 5% range. Rates are currently lower in FY12 as the economy is making municipal bonds more attractive for highly rated communities. When netted out against inflation, municipal borrowing costs – especially for strong credit worthy Towns such as Barnstable – are enviable.

The Town operates the airport, two golf courses, a wastewater treatment facility, a solid waste transfer station, water supply operations, four marinas, Sandy Neck Park and the Hyannis Youth & Community Center as enterprise funds. These funds are expected to repay their debt from the revenues that 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) that was created by legislation to enable the Towns to acquire open space and to finance community housing and historic preservation projects. The CPF, a special revenue fund, is funded with a three percent surtax on each real estate tax bill. The Commonwealth provides a partial matching program of 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, real estate transactions declining as well as a decline in the State's trust fund balance.

B. CURRENT DEBT POSITION

As of June 30, 2011, the Town of Barnstable had \$137.4 million of outstanding long-term debt. New debt issued in FY11 was \$19 million and existing debt retired was \$21.6 million, representing a \$2.6 million net decrease in the outstanding long-term debt level from June 30, 2010. These debt figures include all debt incurred on behalf of the enterprise funds (\$54 million) and Community Preservation Fund (\$20.5 million).

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, the amount of debt sold by overlapping jurisdictions (the County, Cape Cod Regional Transit Authority and Cape Cod Regional Technical High School), and future capital needs. These factors influence the Town's bond rating - an evaluation of the Town's ability to repay debt as determined by the rating agencies. Rating agencies examine the local economy as well as the Town's financial position, administrative capabilities, and level of planning. System improvements such as programmatic budgeting, an administrative code, policy planning based on a ten-year forecast, and financial fund management have helped the Town's position. In their most recent bond rating analysis dated June 6, 2011, Standard & Poor's affirmed the 'AAA' rating on the Town's outstanding debt. This included a stable outlook. The rating reflects S&P's assessment of the Town's demonstrated market access and strong financial position and fiscal management, good income levels and high per capita market value and a primarily residential property tax base that is among the largest in Massachusetts.

Projected Debt Payments by Project and Fund

The following four tables set forth the projected General Obligation Debt (G.O.D.) payments by project for both the Town's governmental funds and the enterprise funds.

It is significant to note that the State reimburses for school construction projects at the rate of 64% including interest costs incurred, as well as several MWPAT loans for sewer construction, water system improvements and landfill capping loans. The State will contribute \$30.5 million in school building assistance grants and MWPAT subsidies over the remaining life of the outstanding bonds.

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

Project	Coupon Rate (%)	Outstanding at June 30, 2010	Issued	Redeemed	Outstanding at June 30, 2011
Land Acquisitions	3.51 – 5.00	\$2,787,000	\$1,102,000	(\$1,339,000)	\$2,550,000
Community Preservation Fund Land Acquisitions	3.25 – 5.00	\$22,295,000	\$7,065,000	(\$8,850,000)	\$20,510,000
Schools	2.50 – 5.00	\$43,904,505	\$2,630,000	(\$4,927,402)	\$41,607,103
Roads	2.74 – 5.00	\$3,626,730	\$1,000,000	(\$826,730)	\$3,800,000
Title V Loan Program	0.00	\$734,151		(\$50,420)	\$683,731
Public Buildings	3.39 – 5.00	\$6,397,820	\$965,000	(\$988,020)	\$6,374,800
Improvements	3.50 – 4.75	\$1,813,000	\$1,575,000	(\$182,000)	\$3,206,000
Dredging	4.20	\$1,121,250	\$1,839,000	(\$411,250)	\$2,549,000
Drainage	3.39 – 6.00	\$465,000		(\$145,000)	\$320,000
Sewer Planning	4.07	\$1,288,998		(\$229,517)	\$1,059,481
Arial Mapping	3.61	\$175,000		(\$65,000)	\$110,000
Lake Treatment	3.00	\$275,000		(\$20,000)	\$255,000
Total Bonds Payable		\$84,883,454	\$16,536,689	(\$18,034,339)	\$83,025,115

Debt service requirements for principal and interest for Governmental bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2012	\$9,931,989	\$3,211,910	\$13,143,899
2013	\$9,304,750	\$2,882,139	\$12,186,889
2014	\$9,000,922	\$2,542,467	\$11,543,389
2015	\$8,176,270	\$2,238,926	\$10,415,196
2016	\$7,918,450	\$1,939,054	\$9,857,504
Thereafter	\$38,692,734	\$6,053,779	\$44,746,513
Total	\$83,025,115	\$18,868,275	\$101,893,390

The Commonwealth of Massachusetts has approved school construction assistance to the Town. The assistance program, which is administered by the Massachusetts School Building Authority, provides resources for construction costs and debt service interest of general obligation bonds outstanding. The Town is currently receiving annual payments for 64% of eligible costs in relation to the construction of the Grade 4/5 Horace Mann Charter School and the renovation and expansion of the Barnstable Intermediate School and Barnstable High School. During fiscal year 2011, \$3,509,000 of such assistance was received. Approximately \$26,971,000 will be received in future years. Of this amount, \$3,329,000 represents reimbursement of future long-term interest costs and \$23,642,000 represents reimbursement of approved construction cost. These amounts are included in the school bonds payable presented on the previous page.

Bonds and Notes Payable Schedule – Enterprise Fund

Project	Interest Rate (%)	Outstanding at June 30, 2010	Issued	Redeemed	Outstanding at June 30, 2011
Golf Course	5.00	\$3,840,000		\$(220,000)	\$3,620,000
Wastewater Treatment	0.00 – 4.75	\$18,474,811	\$300,000	\$(1,573,266)	\$17,201,545
Solid Waste Transfer Station	0.00 – 4.50	\$4,338,727		\$(430,827)	\$3,907,900
Marinas	3.00 – 5.00	\$1,250,000	\$525,000	\$(100,000)	\$1,675,000
Water	4.00 – 5.00	\$11,753,911		\$(375,000)	\$11,378,911
Sandy Neck	4.00	\$30,000	\$1,265,000	\$(15,000)	\$1,280,000
Hyannis Youth & Community Center	3.375 – 5.00	\$15,092,000		\$(869,000)	\$14,223,000
Airport	2.00 – 4.12		\$730,000		\$730,000
Total Enterprise Fund Bonds Payable		\$54,779,449	\$2,820,000	(\$3,583,093)	\$54,016,356

Debt service requirements for principal and interest for enterprise bonds payable in future fiscal years are as follows:

Fiscal Year	Principal	Interest	Total
2012	\$3,891,430	\$1,878,201	\$5,769,631
2013	\$3,416,029	\$1,950,459	\$5,366,488
2014	\$3,625,021	\$1,628,662	\$5,253,683
2015	\$3,641,534	\$1,499,248	\$5,140,782
2016	\$3,526,973	\$1,365,091	\$4,892,064
Thereafter	\$35,915,369	\$7,290,675	\$43,206,044
Total	\$54,016,356	\$15,612,336	\$69,628,692

The Town is scheduled to be subsidized by the Massachusetts Water Pollution Abatement Trust (MWPAT) on a periodic basis for principal in the amount of \$2,057,253 and interest costs for \$1,495,632. Thus, net MWPAT loan repayments, including interest, are scheduled to be \$6,294,645. Since the Town is legally obligated for the total amount of the debt, such amounts are included in the tables above. The fiscal year 2011 principal and interest subsidies totaled \$336,467 and \$302,755, respectively.

The Town is subject to various debt limits by statute and may issue additional general obligation debt under the normal debt limit. On June 30, 2011, the Town had the following authorized and un-issued debt:

Wastewater Treatment & Expansion	\$14,049,813
Water Supply	\$7,408,863
Dredging Projects	\$329,000
Road Projects	\$6,827
Airport Projects	\$32,203,989
Security Fencing at Landfill	\$160,000
Effluent mitigation	\$1,393,950
Refunding bonds	\$13,258,000
Land Acquisitions	\$655,000
Energy Improvements	\$3,704,000
Facility Improvements	\$428,275
Total	\$73,597,717

C. GENERAL OBLIGATION DEBT – CREDIT RATINGS

In June 2011, the Treasurer conducted a \$19 million bond sale. This included \$8.6 million in refunding bonds and \$10.4 million in new money. This sale required a rating agency analysis of the Town’s financial condition and resulted in the Town maintaining its **AAA** credit from Standard and Poor’s on all of its outstanding debt obligations. The descriptor used by S&P for this rating is “Prime Investment Grade”. Only twenty other communities in Massachusetts have an AAA rating from S&P. 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. To achieve this rating upgrade, the Town has been following a prudent course of conservative financial management. Reserves are deemed so important by S&P (listed first of the ten most important factors that they examine) that a quote from their public finance literature is provided. “A formalized financial reserve policy is a consistent feature of most of S&P’s highly rated credits. As economic trends have weakened over the past year, the importance of reserves from a credit standpoint is again highlighted. It clearly provides a measure of financial flexibility to react to budget shortfalls in a timely fashion”. This AAA rating reflects sound credit quality with associated very low risk and should result in low borrowing costs for the Town. In August 2007, Moody’s Rating Services upgraded its bond rating for the Town from Aa3 to Aa1, a two-step increase.

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 area and a community with more income wealth can afford more debt than a poor community. The following is a list of additional factors that the financial community uses in evaluating an issuer's credit rating:

- Economic health and diversification
- Fund balances (free cash and other reserves)
- Evidence of regular planning for capital improvements by the issuer
- Review of the issuer's Capital Improvements Program for its effect on future debt needs
- The willingness of the community, from time to time, to approve Proposition 2½ overrides and/or debt exclusions
- Consideration of projected debt requirements
- The issuer's financial controls related to budgetary matters
- The issuer's long-range planning, particularly zoning and land-use planning
- The range and level of services provided by the issuer in relation to its capacity to provide services
- Flexibility in the ability to raise revenue.

Generally, bond ratings do not change suddenly but respond more to long-range trends. However, dramatic changes are key indicators of fiscal health and can result in a more 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 several legal limitations that govern the issuance of municipal debt. Under Massachusetts statutes, the General Debt Limit of the Town of Barnstable consists of a Normal Debt Limit and a Double Debt Limit. The Normal Debt Limit for the Town is 2½ 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. It can authorize debt up to twice this amount (Double Debt Limit) with the approval of the State's Municipal Oversight Board. The current debt limitation for the Town of Barnstable is in excess of \$700 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 many categories of general obligation debt that are exempt from, and do not count against, the General Debt Limit. To name a few among many; certain school bonds, water bonds, solid waste disposal facility bonds, and water pollution abatement revenue bonds are not subject to these debt limits.

Proposition 2 ½ (Chapter 580 of the Acts of 1980) also impacts the amount of municipal debt that can be issued. These limiting factors are the Primary Levy Limit and the Maximum Levy Limit and restrict the permitted amount of tax levy increase from year to year. In order to exceed these legal limits, an override initiative would need to be voted to exclude a particular debt issue or a portion of a debt issue from the effects of these limitations. The Town's primary levy limit for FY2012 was calculated as follows:

FISCAL YEAR 2011 PRIMARY LEVY			\$91,966,048
Add:			
2.5% of FY11 primary levy		\$2,299,151	
FY 2012 New Building Growth		588,694	
FY 2012 Debt Payments Excluded		2,099,658	
FY 2012 Cape Cod Commission		515,806	
Total Additions		\$5,503,309	
FISCAL YEAR 2012 TAX LEVY LIMIT			\$97,469,357

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. There are a number of factors not directly under the control of the Town that impact 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 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 improvement 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.

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>
0.56%	Ratio of Debt to E.V. (%). FY10 state equalized valuation. Definition - Overall Debt ÷ Equalized Valuation Standard & Poor's rates this as low (favorable)
8.3%	Municipal Debt Burden – Current Year Definition - Town's Debt Service ÷ Total Expenditures Standard & Poor's rates this as low (favorable)
\$1,313	Net Direct Debt Per Capita Definition – Governmental Fund Net Debt ÷ Town Population Standard & Poor's rates this as low (favorable)
\$330,711	Per Capita Market Value Definition – Equalized Valuation ÷ Population Standard & Poor's rates this as very high (favorable)

Extract from Standard & Poor's Credit Profile of Barnstable Printed June 10, 2011

"We do not expect the rating to change within the two-year outlook period given the town's very large and diverse tax base; very strong financial position; and strong, deeply embedded financial management policies and practices."

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

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, continually monitors 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 2 1/2 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 current ratio for the Town of Barnstable is 0.75%.

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

The Town's current ratio is 8.3%.

5. The Town shall target a Standard and Poor's (S&P) 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 current ratio is 8%.

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 \$16 million in the next five years as "pay-as-you-go" financing and anticipates financing about \$10 million in capital with new debt issues resulting in a 60/40 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.

Capital Trust Fund

A capital trust fund has been established for the purpose of financing debt service for recommended Capital Improvement Program projects, as contained within the Town's five-year capital improvement plan.

1. The Capital Trust Fund will be funded through a general operation set aside of at least \$1.9 million annually. The annual commitment for FY 2011 was \$6.725 million. This is expected to be repeated 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 debt service restriction on the fund, such that debt service estimates from authorized loan 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 IV. PROJECT DETAIL FY 2013 - FY 2017

A. GENERAL FUND PROJECTS

1. ADMINISTRATIVE SERVICES

PROJECT: ADMIN-13-07 (ASSESSING)

DEPARTMENT PRIORITY: 1 of 3

Project Working Title: PERMANENT RECORDS ARCHIVE
Project Location: Assessing Office

Project Description: Conversion of current form of permanent historical assessing records dating back to 1861 from microfiche cards and 35mm film to General Code laser fiche format. Elimination of mechanical search & print methodology to be replaced by electronic search & compilation of records via computer station.

Project Justification: Current microfiche records require viewing & printing machine combinations that are becoming obsolete, with repair parts difficult to find, resulting in the assessing office's inability to produce document requests within the required statutory time when the machines break down. Due to the 35mm film deterioration, the potential exists to be unable to access the records at all in the current format, which is forbidden by the Secretary of State's office. Conversion to laser fiche would satisfy the state's permanent record retention requirements and greatly improve the time to search & produce taxpayer requested documents, as required by law, reducing staff research time & the total costs to the taxpayer.

Impact of Denial/Postponement: 35mm film is deteriorating and may be rendered unreadable at some unknown point in the future, violating state law requiring accessible retention of these records. Reading & printing machines for both cards & film are 25 years old and replacement parts are not readily available, if at all, when they break down, which is happening more frequently. As a result of all this, it continues to get more difficult to meet the 10 day response requirement for public information requests and machine problems have already resulted in violation of that response time requirement.

Project Cost Estimates: Contract \$ 90,000

Project Estimated Completion Date: 3 months from delivery of film & cards to contractor

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$90,000	Charged by actual # of images copied

Source of Funding: General Fund

Operating Budget Impact: Machine maintenance & repair is eliminated. General Code Laser fiche is already contracted by the Town for all departments requiring such storage, such as Town Clerk.

PROJECT: ADMIN-13-02 (INFORMATION SYSTEMS)

DEPARTMENT PRIORITY: 2 of 3

Project Working Title: AERIAL FLYOVER & MAPPING UPDATE
Project Location: Town-wide

Project Description: The purpose of this project is to update the current maps in the Town's Geographic Information System. These GIS "base maps" depict features such as roads, buildings, water bodies, streams, marshes, vegetation, and topography. The maps were originally produced through a process called photogrammetry from aerial photographs taken in 1989. In keeping with a planned update interval of 6-7 years, subsequent aerial flyovers were completed in 1995, 2001, and 2008. The aim of this project for FY 2015 is to conduct an aerial flyover in the spring of 2015 to update features on the GIS base maps. Also as part of this project, new digital aerial photographs (orthophotos) would be generated from the flyover. New orthophotos would provide an up to date, accurate photographic backdrop for other GIS layers providing a "picture is worth a thousand words" type of enhancement to the GIS.

Project Justification: The last update to the GIS base maps occurred in 2008. As the Town continues to develop and change due to new construction, the GIS maps become more and more outdated. Most Town departments currently use the GIS maps as an aid to their decision making process. As time passes, and the maps become a less accurate representation of reality, the GIS will become a less valuable tool. There will be more risk of making decisions based on outdated information.

At this point, the most practical, cost effective, and accurate method of updating the GIS maps is to conduct an aerial flyover and subsequent photogrammetric mapping.

The GIS maps that would be updated by this project are used by nearly every Town department and division to support the Town's strategic goals as well as the Town's daily operational needs. Some specific examples include:

- Maintenance and management of roads including pavement management, transportation planning, parking, and snow & ice removal
- Infrastructure maintenance and management (water supply, sewer, & storm water)
- Management of natural resources and public health issues such as shellfish beds, drinking water supplies, and nutrient management
- Maps to support police and fire department operations
- Maps to support planning and Growth Management issues such as the Growth Incentive Zone, Local Comprehensive Plan, and economic development
- Management of Town properties and facilities such as the Solid Waste Transfer Station, the Water Pollution Control Facility, the Barnstable Municipal Airport, Sandy Neck, and Town Conservation areas
- Maps and analysis to identify potential open space land acquisitions

The GIS maps are also used extensively by outside consultants working on a myriad of Town projects such as the wastewater facilities plan, airport terminal expansion, road reconstruction projects, buildout analyses, etc. The Town saves considerable money on these projects because detailed GIS data are already available to the consultants. The general public also makes use of the GIS maps either through the interactive maps on the Town website or through the GIS office in Town Hall. Public uses of the GIS range from site maps for shed permits, to abutter notification mailing lists, to detailed topographic maps.

Impact of Denial/Postponement: If this project is not funded, Town departments will have to continually verify items on the GIS maps through time consuming field checks. This will result in more time lost in order to ensure that the information is up to date and correct. If the maps are not updated, the GIS will become a less effective aid to decision making and may lead to decisions being based on incorrect information. In summary, any type of analysis using the current information will become more obsolete as time passes. The usefulness of the Town's investment in GIS will diminish as time progresses.

Project Cost Estimates: Photography, ground survey, aero triangulation and digital compilation \$208,000

Project Estimated Completion Date: Spring 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$	
2015	\$100,000	aerial photography, ground control survey, aerotriangulation, orthophoto production
2016	\$108,000	digital map compilation

Source of Funding: General Fund

Operating Budget Impact: All work will be completed by an outside contractor and funded through the CIP budget. There will be no impact on the operating budget other than the overhead associated with existing town staff managing the project (project management & QA/QC). No additional salary or other operating costs will be incurred by this project and there will be no additional ongoing maintenance costs, etc.

PROJECT: ADMIN-13-03 (INFORMATION SYSTEMS)	DEPARTMENT PRIORITY: 3 of 3
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Project Working Title: SUMMER AERIAL FLYOVER OF WATERWAYS

Project Location: Town-wide

Project Description: The purpose of this project is to conduct a summertime aerial flyover to obtain new aerial photographs of the Town’s coastal and inland waterways. This project, to occur during the summer of 2015, would produce digital aerial photographs of the Town’s northern and southern coastal areas as well as inland lakes and ponds. The purpose is to accurately map the location of marine and natural resource items such as mooring fields, boating channels, buoys, shellfish grants, docks, piers, and floats. The summer time frame is necessary to capture seasonal items such as seasonal docks and mooring fields that are only in place during the summer months. This project was specifically requested by the Harbormaster and Conservation Divisions to assist with their management of coastal waterways and enforcement of dock, pier, and wetland regulations.

Project Justification: The purpose of this project is to provide information tools to enhance the management of our coastal waterways, lakes, ponds, and natural resources. The results of this project would benefit a variety of programs within the Harbormaster, Natural Resource, Conservation, and Engineering divisions. Such programs would include:

- Planning & managing the efficient use of mooring fields
- Management of shellfish resources & aquaculture grants
- Regulation & permitting of docks, piers, & floats
- Enforcement of wetland protection laws
- Planning & management of channel dredging projects
- Inventory of nautical infrastructure (i.e. buoys, beacons, boating channels)
- Management of Sandy Neck
- Monitoring of waterway sedimentation
- Monitoring of shoreline erosion

This project is separate from the *Aerial Flyover & Mapping Update* CIP request. That project must be photographed during a limited timeframe in the early spring – after the snow has melted and before the leaves have appeared on trees. This is to maximize the visibility of features on the ground such as roads and buildings. A flyover of coastal

and inland waterways must occur during the summer months when seasonal docks and floats are in place and mooring fields are utilized. In addition, the waterway flyover must occur in the early morning hours to minimize sun glare on the water surface. This same early morning time frame is not suitable for the Aerial Flyover & Mapping Update project – it would cause too many shadows obscuring features on the ground. In addition, the Summer Aerial Flyover must have strict limitations on tidal and wind / wave conditions in order to maximize visibility of waterways. Due to the unique constraints of each of the two projects, they cannot be combined into a single flyover.

Impact of Denial/Postponement: If this request is not funded, the Harbormaster, Natural Resources, Conservation, and Engineering Divisions will have to rely on outdated information for managing our waterways and natural resources. Since the last waterways flyover there has been significant change to our coastal resources. Shorelines and channels have shifted, new docks and piers have been constructed, aquaculture grants have been modified, and channels have been dredged. It is important to keep up with such changes and to provide current and accurate information for the management of the Town’s coastal and inland waterways.

Project Estimated Completion Date: Spring 2016

Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$0	
2016	\$86,500	aerial photography, aero triangulation, orthophoto production

Source of Funding: General Fund

Operating Budget Impact: All work will be completed by an outside contractor and funded through the CIP budget. There will be no impact on the operating budget other than the overhead associated with existing town staff managing the project (project management & QA/QC). No additional salary or other operating costs will be incurred by this project and there will be no additional ongoing maintenance costs, etc.

2. COMMUNITY SERVICES

PROJECT: CS-13-1	DEPARTMENT PRIORITY: 1 of 15
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Project Working Title: BEACH HOUSE RENOVATIONS
Project Location: Various Town Beaches

Project Description: This project would fund the improvements at several of our Beach Houses. This multi-year project is a continuation of our beach program to keep our bath houses updated on the interior & exterior, and be fully operational. These funds would provide for design and renovation/construction as identified hereinafter:

- Hathaway’s Pond Beach House Septic System Replacement
- Joshua’s Pond Bath House Site Improvements & Septic System Replacement
- Craigville Beach House
- Covell’s Beach House
- Osterville Beach House
- Pavilion at Kalmus Beach House
- Loop Beach House

Project Justification: These buildings have been patched, repaired and painted but heavier renovations are now necessary. The beach houses are in need of new fixtures and service systems throughout with regards to plumbing, electrical and air-handling equipment as well as structural: walls, ceilings and floors renovations. It is not solely cosmetic; many of the needs are safety related. In some cases, it is recommended that the structure be demolished and replaced with a new facility.

Work Accomplished Prior Project: A new septic system has been designed and permitted for Joshua's and Hathaway's Pond and await construction funding. Septic systems have been replaced at Covell's Beach; a new sewer connection and pumps at Kalmus Beach; and septic system designed at Craigville. Installed a new beach stairway at Joshua's Pond; renovated the exterior of Wequaquet and renovation completed at Millway; and an ADA observation deck completed at Millway. The Kalmus Pavillion is currently being repaired as the steel columns are in a state of failure. An RFQ for Design work at Craigville Beach will be developed by Fall, 2011 subject to TC re-authorization, with funding for construction sought herein in FY13.

Impact of Denial/Postponement: Continued deferred maintenance of these facilities will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$10,000 Construction: \$ 74,130

Project Estimated Completion Date: Fall, 2012

Project Cost/Description FY 2013 and Follow-On Years: Costs include pro-rated contingency and project management requirements shown in item 14.

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 84,130	Hathaway's Pond Septic System Replacement
2014	\$3,488,152	Craigville Beach House Additional Design +Construction
2015	\$1,553,760	Design and Construction for Covell's Beach House
2016	\$3,087,477	Design and Construction at Kalmus Beach House
2017	\$ 233,868	Design & Construction of Joshua's Pond Site Improvements
2017	\$ 391,686	Dowses Beach House Renovation
2017	\$ 391,686	Loop Beach House Renovations

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

CIP Project Cost Analysis:

Hathaway's Pond Septic System Replacement

Sq. Ft. Area	200			
Cost/ Sq. Ft.	\$ 180			\$ 0

Hard Costs with OH+P

	range	actual	<u>Construction</u>
Site Improvements-new septic system			\$ 65,000
Subtotal			\$ 65,000
General Conditions	7-12%	8%	\$ 5,600

Subtotal				\$	70,600
Contingency	15%	5%		\$	3,530
Subtotal				\$	74,130
Escalation	2-6%	0%		\$	-
Total Estimated Construction Hard Cost				\$	74,130

Soft Costs

Design

	range	actual			
Design Fees	6-10%	0%	\$	-	
Other Fees -environmental		I.s.			
FF&E		I.s.	\$		
Project Management	5%	5%	\$	5,000	
Contingency	5%	5%	\$	5,000	
Total Estimated Project Soft Cost			\$	10,000	
Total Estimated Project Cost					\$ 84,130

Craigville Beach house

Sq. Ft. Area	4,000				
Cost/ Sq. Ft.	\$ 350				\$ 1,400,000

Hard Costs with OH+P

Construction

	range	actual			
Site Improvements w/ septic + new pavement			\$	900,000	
Demolition, Haz-mat abatement			\$	85,000	
New Bathhouse			\$	1,400,000	
Subtotal			\$	2,385,000	
General Conditions	7-12%	12%	\$	286,200	
Subtotal			\$	2,671,200	
Contingency	15%	10%	\$	267,120	
Subtotal			\$	2,938,320	
Escalation	2-6%	0%	\$	-	
Total Estimated Construction Hard Cost			\$	2,938,320	

Soft Costs

Design

	range	actual			
Design Fees (excludes \$79,000 appropriation on hold)	6-10%	8%	\$	156,000	
Other Fees -environmental		I.s.	\$	90,000	
FF&E		I.s.	\$	10,000	
Project Management	5%	5%	\$	146,916	
Contingency	5%	5%	\$	146,916	
Total Estimated Project Soft Cost			\$	549,832	
Total Estimated Project Cost					\$ 3,488,152

Covell's Beach House Renovations

Sq. Ft. Area			2,000.00	
Cost/ Sq. Ft.			\$ 350.00	700,000

Hard Costs

	range	actual		<u>Construction</u>
Site Improvements w/ New Pavement				280,000
Demolition, Hazmat abatement				20,000
New Bathhouse				700,000
Subtotal				1,000,000
General Conditions	7-12%	12%		120,000
Subtotal				1,120,000
Contingency	15%	10%		112,000
Subtotal				1,232,000
Escalation	2-6%	0.0%		0
Total Estimated Construction Hard Cost				1,232,000

Soft Costs

	range	actual		<u>Design</u>
Design Fees	6-10%	8%	\$ 98,560.00	
Other Fees		I.s.	\$ 90,000.00	
FF&E		I.s.	\$ 10,000.00	
Project Management	5%	5%	\$ 61,600.00	
Contingency	10%	5%	\$ 61,600.00	
Total Estimated Project Soft Cost			\$ 321,760.00	
Total Estimated Project Cost				1,553,760

Kalmus Beach house

Sq. Ft. Area	4,000			
Cost/ Sq. Ft.	\$ 350			\$ 1,400,000

Hard Costs with OH+P

	range	actual		<u>Construction</u>
Site Improvements w/ new pavement				\$ 550,000
Demolition, Haz-mat abatement				\$ 105,000
New Bathhouse				\$ 1,400,000
Subtotal				\$ 2,055,000
General Conditions	7-12%	12%		\$ 246,600
Subtotal				\$ 2,301,600
Contingency	15%	10%		\$ 230,160
Subtotal				\$ 2,531,760
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$ 2,531,760

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	\$	202,541
Other Fees -environmental		I.s.	\$	90,000
FF&E		I.s.	\$	10,000
Project Management	5%	5%	\$	126,588
Contingency	5%	5%	\$	126,588
Total Estimated Project Soft Cost			\$	555,717
Total Estimated Project Cost			\$	3,087,477

Joshua's Pond Site Improvements

Sq. Ft. Area				
Cost/ Sq. Ft.			\$	-

Hard Costs with OH+P

Construction

	range	actual		
Site Improvements- parking lot expansion, pavement, landscaping			\$	180,000
Subtotal			\$	180,000
General Conditions	7-12%	6%	\$	10,800
Subtotal			\$	190,800
Contingency	15%	10%	\$	19,080
Subtotal			\$	209,880
Escalation	2-6%	0%	\$	-
Total Estimated Construction Hard Cost			\$	209,880

Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$	-
Other Fees -environmental		I.s.		
FF&E		I.s.	\$	3,000
Project Management	5%	5%	\$	10,494
Contingency	5%	5%	\$	10,494
Total Estimated Project Soft Cost			\$	23,988
Total Estimated Project Cost			\$	233,868

Dowse's Beach House Renovations

Sq. Ft. Area			800	
Cost/ Sq. Ft.			\$	250.00
				200,000

Hard Costs

Construction

	range	actual		
Site Improvements				95,000
Building Renovations				200,000

Subtotal				295,000
General Conditions	7-12%	6%		17,700
Subtotal				312,700
Contingency	15%	10%		31,270
Subtotal				343,970
Escalation	2-6%	0.0%		0
Total Estimated Construction Hard Cost				343,970

Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$ -	
Other Fees		I.s.	\$ -	
FF&E		I.s.	\$ 3,000.00	
Project Management	5%	8%	\$ 27,517.60	
Contingency	10%	5%	\$ 17,198.50	
Total Estimated Project Soft Cost			\$ 47,716.10	
Total Estimated Project Cost				391,686

Loop Beach House Renovations

Sq. Ft. Area	800			
Cost/ Sq. Ft.	\$ 250			\$ 200,000

Hard Costs with OH+P

Construction

	range	actual		
Site Improvements-				\$ 95,000
Building Renovations + Addition				\$ 200,000
Subtotal				\$ 295,000
General Conditions	7-12%	6%		\$ 17,700
Subtotal				\$ 312,700
Contingency	15%	10%		\$ 31,270
Subtotal				\$ 343,970
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$ 343,970

Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$ -	
Other Fees -environmental		I.s.		
FF&E		I.s.	\$ 3,000	
Project Management	5%	8%	\$ 27,518	
Contingency	5%	5%	\$ 17,199	
Total Estimated Project Soft Cost			\$ 47,716	
Total Estimated Project Cost				\$ 391,686

Joshua's Pond Site Improvements

Sq. Ft. Area				
Cost/ Sq. Ft.				\$ -

Hard Costs with OH+P

Construction

	range	actual		
Site Improvements- parking lot expansion, pavement, landscaping				\$ 180,000
Subtotal				\$ 180,000
General Conditions	7-12%	6%		\$ 10,800
Subtotal				\$ 190,800
Contingency	15%	10%		\$ 19,080
Subtotal				\$ 209,880
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$ 209,880

Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$ -	
Other Fees -environmental		I.s.		
FF&E		I.s.	\$ 3,000	
Project Management	5%	5%	\$ 10,494	
Contingency	5%	5%	\$ 10,494	
Total Estimated Project Soft Cost			\$ 23,988	
Total Estimated Project Cost				\$ 233,868

Project: **Dowses Beach** House Renovations

Sq. Ft. Area			800.00	
Cost/ Sq. Ft.			\$ 250.00	200,000

Hard Costs

Construction

	range	actual		
Site Improvements				95,000
Building Renovations				200,000
Subtotal				295,000
General Conditions	7-12%	6%		17,700
Subtotal				312,700
Contingency	15%	10%		31,270
Subtotal				343,970
Escalation	2-6%	0.0%		0

Total Estimated Construction Hard Cost		343,970
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Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$	-
Other Fees		I.s.	\$	-
FF&E		I.s.	\$	3,000.00
Project Management	5%	8%	\$	27,517.60
Contingency	10%	5%	\$	17,198.50
Total Estimated Project Soft Cost			\$	47,716.10

Total Estimated Project Cost		391,686
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Loop Beach House Renovations

Sq. Ft. Area	800			
Cost/ Sq. Ft.	\$ 250			\$ 200,000

Hard Costs with OH+P

Construction

	range	actual		
Site Improvements-			\$	95,000
Building Renovations + Addition			\$	200,000
Subtotal			\$	295,000
General Conditions	7-12%	6%	\$	17,700
Subtotal			\$	312,700
Contingency	15%	10%	\$	31,270
Subtotal			\$	343,970
Escalation	2-6%	0%	\$	-
Total Estimated Construction Hard Cost			\$	343,970

Soft Costs

Design

	range	actual		
Design Fees	6-10%	0%	\$	-
Other Fees -environmental		I.s.		
FF&E		I.s.	\$	3,000
Project Management	5%	8%	\$	27,518
Contingency	5%	5%	\$	17,199
Total Estimated Project Soft Cost			\$	47,716

Total Estimated Project Cost		\$ 391,686
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Covell's Beach House



Lovell's Pond Beach House



Loop's Beach House



Kalmus Beach House



PROJECT: CS-13-02

DEPARTMENT PRIORITY: 2 of 15

Project Working Title: BARNSTABLE SENIOR CENTER PARKING LOT EXPANSION

Project Location: Falmouth Road, Hyannis, MA

Project Description: The Senior Center has a very successful program and as such has developed a need for additional visitor parking.

Project Justification: Currently the size of the existing lot is too small to accommodate the additional parking needed at many of their events.

Impact of Denial/Postponement: With the increase in participants in Senior Center activities, finding parking is difficult for the elderly citizens. With poor weather conditions and many events occurring in the evening, it is important to have good smooth pavement, adequate parking and lighting so that the liability to the TOB is well managed.

Project Cost Estimates: Design: \$25,000 Construction: \$207,000

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$232,000	Design & Construction

Source of Funding: General Fund

Operating Budget Impact: Expenses - 3,000, site electrical energy

PROJECT: CS-13-03	DEPARTMENT PRIORITY: 3 of 15
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Project Working Title: BAY STREET RAMP REPAIRS
Project Location: Bay Street, Osterville

Project Description: A replacement boat ramp will be designed and installed.

Project Justification: The Bay Street Boat Ramp is one of the Town's important marine assets, providing direct access to North Bay, south side marinas, prime shellfish habitat, and some of our designated mooring fields. The ramp is on need of repair, as the hot top has deteriorated extensively throughout.

Impact of Denial/Postponement: If repairs to the ramp are not made it will continue to deteriorate, and will eventually become unusable. A ramp that is poor condition poses a safety hazard and could prove to be a liability should an accident occur because of the condition of the ramp.

Project Estimated Completion Date: May 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$25,000	Design & Permitting
2014	\$150,000	Construction

Source of Funding: General Fund Follow up on CAP

Operating Budget Impact: None

PROJECT: CS-13-04	DEPARTMENT PRIORITY: 4 of 15
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Project Working Title: REPAIR – WEST BAY BREAKWATERS
Project Location: West Bay, Osterville

Project Description: The proposed project would re-align existing stones, shore up the structures, add new stone where needed and replace any missing stones.

Project Justification: The stone breakwater that protect either side of the channel entering West Bay from Nantucket Sound have been damaged by numerous storms, heavy seas, and constant turbulence over the years. The integrity of the structure is now compromised. The breakwaters have lost stones from their sides 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 shoaling will worsen and the channel be blocked. Water quality in West Bay and all of the Three Bays area will be compromised.

Project Cost Estimates: Design: \$75,000

Project Estimated Completion Date: September 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$75,000	Design/ Permitting
2014	\$0	
2015	\$2,000,000	Construction

Source of Funding: General Fund

Operating Budget Impact: None



West Bay Breakwater

PROJECT: CS-13-05	DEPARTMENT PRIORITY: 5 of 15
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Project Working Title: BARNSTABLE WEST BARNSTABLE TENNIS COURTS
Project Location: Barnstable West Barnstable

Project Description: Re-Construction of two tennis courts including: site work prep., sub-grade prep., court re-construction, fencing, and outside perimeter clean-up. The two courts will be regulation in size.

The courts will be finished with a high grade seal coat along with the respective markings. The courts will be fenced and the area outside the courts will be landscaped.

Project Justification: The Barnstable West Barnstable tennis courts are used often by the general public and the Recreation Division for their youth tennis program. The courts have ruts and cracks throughout the surface that presents difficulty in playing but more importantly the facility becomes a liability for the Town of Barnstable. The Barnstable West Barnstable tennis courts have not received any maintenance for approximately 11 years.

Impact of Denial/Postponement: Failure to fund this Capital Improvement item will result in further problems with the court surface thus presenting a more liable situation for the Town. Also, the Town's Recreation Division will not hold the youth tennis program in the future as we are concerned with safety for the participant.

Project Cost Estimates: Design: \$21,000 Construction: \$147,000

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 168,000	Design and construction

Source of Funding: General Fund

Operating Budget Impact: Newly constructed courts will reduce annual maintenance costs and reduce liabilities.



BWB Tennis Court

PROJECT: CS-13-06	DEPARTMENT PRIORITY: 6 of 15
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Project Working Title: **COTUIT TENNIS COURTS**
Project Location: Cotuit

Project Description: Re-Construction of two tennis courts including: site work prep., sub-grade prep., court re-construction, fencing, and outside perimeter clean-up. The two courts will be regulation in size. The courts will be finished with a high grade seal coat along with the respective markings. The courts will be fenced and the area outside the courts will be landscaped.

Project Justification: The Cotuit tennis courts are used often by the general public and the Recreation Division for their youth tennis program. The courts have ruts and cracks throughout the surface that presents difficulty in playing but more importantly the facility becomes a liability for the Town of Barnstable. The Cotuit tennis courts have not received any maintenance for approximately 11 years.

Impact of Denial/Postponement: Failure to fund this Capital Improvement item will result in further problems with the court surface thus presenting a more liable situation for the Town. Also, the Town’s Recreation Division will not hold the youth tennis program in the future as we are concerned with safety for the participant.

Project Cost Estimates: Design: \$21,000 Construction: \$147,000

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 168,000	Design and construction

Source of Funding: General Fund

Operating Budget Impact: Newly constructed courts will reduce annual maintenance costs and reduce liabilities.

Supplemental Information:

Design:	\$21,000
Construction:	\$141,000

PROJECT: CS-13-07

DEPARTMENT PRIORITY: 7 of 15

Project Working Title: **MEA EXISTING FACILITY UPGRADES**

Project Location: 1189 Phinney’s Lane, Centerville

Project Description: The existing Marine and Environmental Affairs building was constructed over 20 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 20 employees working out of this facility not counting seasonal staff.

Project Justification: The Marine and Environmental Affairs facility has seen no major renovation work since its construction in 1979. An ongoing program of renovations is necessary in order to protect the Town’s building assets and assure reliability in the future for this unit’s operation. Many identified improvements below are life safety and code compliance issues.

- Design & Construction of new septic system or sewer connection (existing system pumped 5 times)
- Construct enclosure around generator with separate intake and exhaust
- Install new fire alarm system
- Provide permanent piped electrical outlets to the center of garage area
- Install 2 hour wall and UL rated doors
- Provide code compliant means of egress
- Install handicapped accessible restroom
- Upgrade Foundation Insulation
- Parking lot Expansion and Site Improvements

- Carpet Replacement
- Interior Painting
- Upgrade Ceiling Tiles & Lighting
- Office Renovation Plan

Describe Work Accomplished Prior Project: The overlay roof replacement has been completed. The HVAC system was replaced in FY 2008. HVAC system was replaced in order to resolve air quality issues within the building. The exterior has been painted. Commercial overhead doors have been replaced. Limited interior painted has been completed.

Impact of Denial/Postponement: Life safety concerns and the possible loss of use of the facility if upgrades not incorporated and the facility continues to deteriorate.

Project Cost Estimates: Design: \$15,000 Construction: \$40,000

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$55,000	Design & Construction of new septic system or sewer connection
2014	\$17,600	Construct enclosure around generator with separate intake and exhaust
	\$21,000	Install new fire alarm system
	\$ 6,300	Provide permanent piped electrical outlets to the center of garage area
	\$14,000	Install 2 hour wall and UL rated doors
	\$ 6,800	Provide code compliant means of egress
	<u>\$ 7,100</u>	<u>Install handicapped accessible rest rooms</u>
	\$72,800	
	<u>\$21,800</u>	<u>Project Management, Escalation, Contingency</u>
	\$94,600	Total
2015	\$ 9,600	Interior painting
	\$ 3,300	Carpet replacement
	\$ 7,100	Upgrade ceiling tile and lighting
	\$39,000	Parking lot expansion/pavement, site improvements
	<u>\$28,900</u>	<u>Upgrade Foundation Insulation</u>
	\$87,900	
	<u>\$26,400</u>	<u>Project Management, Escalation, Contingency</u>
	\$114,300	Total
2016	\$ 29,200	Upgrade Foundation Insulation
	<u>\$139,600</u>	<u>Office Renovation Plan</u>
	\$168,800	
	<u>\$ 50,700</u>	<u>Project Management, Escalation, Contingency</u>
	\$219,500	Total

Source of Funding: General Fund

Operating Budget Impact: Reduced maintenance costs and extended useful life of the facility.



MEA Building

PROJECT: CS-13-08	DEPARTMENT PRIORITY: 8 of 15
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Project Working Title: LOMBARD FIELD IMPROVEMENTS
Project Location: West Barnstable Community Building (WBCB) and Site

Project Description: These funds would provide for the re-construction of the Lombard Press Box; expanded parking with paving, storm water management; roadway to the Old Selectmen’s Building; site lighting and landscaping; new ball field bleachers. The access driveway should be widened to improve sightlines onto busy Route 149 and ADA parking located adjacent to the ADA ramp into the building and other relative site improvements.

Project Justification: The press box is termite and carpenter ant ridden and has become a safety issue because of its decay and deteriorating electrical system. It must be torn down and rebuilt with the electrical capability to power up proper field lighting. The parking lot is too small to handle the regular use of the WBCB and ball field. Additional storm water control for the expanded lot is required. With the use this facility gets, site lighting (dark sky fixtures) for the safety of visitors within the parking area is needed while keeping the light from offending the neighbors. The existing old and rusted bleachers need to be relocated and be replaced.

Describe Work Accomplished Prior Project: The parking lot has been reorganized to include timber guide rails to define parking areas and improve spectator safety. Press Box has been painted, but is in need of repairs. Luke’s Love Playground has been installed.

Impact of Denial/Postponement: The press box will soon become unusable and field lighting will no longer function properly. Poor parking organization and traffic flow contribute to an ongoing safety concerns especially with poor night lighting. With the new local housing development, and the new ADA playground and improvements to the WBCB, activity will increase on site; thus our concerns for additional site improvements and additional parking.

Project Cost Estimates: Design: \$44,000

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 44,000	Design
2014	\$295,000	New press box, parking lot expansion & pavement,

landscaping, drainage, site lighting, new bleachers fencing, etc

Source of Funding: General Fund Potential of future CPA funding

Operating Budget : New site lighting using energy saving luminaires will yield energy usage savings.



Lombard Field Press Box



Lombard Field Bleachers

PROJECT: CS-13-09

DEPARTMENT PRIORITY: 9 of 15

Project Working Title: MARINE ENVIRONMENTAL AFFAIRS (MEA) BUILDING ADDITION

Project Location: 1189 Phinney's Lane, Centerville

Project Description: The project consists of a 2,500 square foot storage addition to the existing Marine Environmental Affairs building.

Project Justification: The Marine and Environmental Affairs building currently is insufficient in size to accommodate existing staff and equipment. Because of various reorganizations and repositioning of staffing over the years, MEA has had to create office space in the garage area which further limits the ability to have a sufficient working area and space for the storage of vehicles and boats. This project will provide the needed additional space that will allow for the garaging of more of the division's vehicles and boats, protecting them from the elements; and allow for covered and protected maintenance on them. The office building should then be used for the growing office functions therein separating vehicle and boat storage areas from the office functions.

Work Accomplished Prior Project: The existing office and garage building HVAC system was replaced.

Impact of Denial/Postponement: The Town's boats and other equipment will continue to deteriorate at an undesirable rate and, as such, their useful life shortened.

Project Cost Estimates: Design: \$144,849

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$144,849	Design

2014

\$830,308

Construction

Source of Funding: General Fund, MEA Enterprise Fund (User fees from service provided)

Operating Budget Impact: Extended useful life of marine equipment.

Expenses: Increased utilities costs.

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2013	0	\$0	\$0	\$1,100	\$1,100
2014	0	\$0	\$0	\$1,100	\$1,100
2015	0	\$0	\$0	\$1,100	\$1,100
2016	0	\$0	\$0	\$1,100	\$1,100
2017	0	\$0	\$0	\$1,100	\$1,100

Project Cost Analysis:

MEA Building Addition

Sq. Ft. Area	2,500			
Cost/ Sq. Ft.	\$ 165			\$ 412,500

Hard Costs

Construction

	range	actual		
Site Improvements w/ new pavement				\$ 280,000
MEA Building Addition				\$ 412,500
Subtotal				\$ 692,500
General Conditions	7-12%	9%		\$ 62,325
Subtotal				\$ 754,825
Contingency	15%	10%		\$ 75,483
Subtotal				\$ 830,308
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$ 830,308

Soft Costs

Design

	range	actual		
Design Fees	6-10%	6%	\$ 49,818	
Other Fees -environmental		I.s.	\$ 10,000	
FF&E		I.s.	\$ 2,000	
Project Management	5%	5%	\$ 41,515	
Contingency	5%	5%	\$ 41,515	
Total Estimated Project Soft Cost			\$ 144,849	

Total Estimated Project Cost **\$ 975,157**

Project Working Title: SENIOR CENTER CAFE
Project Location: Barnstable Senior Center, 825 Falmouth Road, Hyannis

Project Description: This project would fund the renovation of the existing lobby into a café area. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: As part of the continuing senior program in the Town of Barnstable, funding of this project would continue to expand services provided to the town’s senior citizens.

Impact of Denial/Postponement: Loss of potential service.

Project Cost Estimates: Design & Permitting: \$ 31,889 Construction: \$ 110,496

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 142,385	Senior Center Cafe

Source of Funding: General Fund

Operating Budget Impact: Potential source of revenue and with new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Sq. Ft. Area		400	
Cost/ Sq. Ft.		175	70,000

Hard Costs

Construction

	range	actual	
Demolition - Limited - Wall, Floor, Ceiling			5,000
Interior Construction - Ceiling, Soffit, Wall			10,000
Finishes - Gypsum Board			8,000
Finishes - Cabinets & Counter Tops			30,000
Finishes - Flooring			8,000
Electric			10,000
Plumbing			15,000
Subtotal			86,000
General Conditions	7-12%	9%	7,740
Subtotal			93,740
Contingency	15%	15%	14,061
Subtotal			107,801
Escalation	2-6%	2.5%	2,695
Total Estimated Construction Hard Cost			\$110,496

Soft Costs

Design

	range	actual	
Design Fees	6-10%	8%	8,840

Other Fees		I.s.	10,000	
FF&E		I.s.	2,000	
Project Management	5%	5%	5,525	
Contingency	5%	5%	5,525	
Total Estimated Project Soft Cost				\$31,889

PROJECT: CS-13-11	DEPARTMENT PRIORITY: 11 of 15
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Project Working Title: **LOWELL PARK COMFORT STATION FACILITY**
Project Location: Lowell Avenue, Cotuit

Project Description: The Lowell Park Comfort Station Facility has outlived its useful life and needs to be replaced. This project will cover the demolition of the existing building, the repair/addition of the concrete footprint, and the construction of a new updated facility. Because of its poor physical condition and heavy use, it is extremely difficult to clean, to make presentable even when it is cleaned, and practically impossible to maintain. The facility contains not only the men's & women's restrooms but also a snack bar and store room.

Project Justification: The building is in very rough condition due to its age, the environment and its constant heavy use. It is woefully undersized for the amount of visitors to that park and is in dire need of updating. It has always been a heavily utilized facility because of the Cotuit Kettleers. Day lighting, photovoltaics and roof mounted solar panels supplying the domestic hot water are just a couple of means by which we can lower power consumption and cut costs.

Impact of Denial/Postponement: The poor condition of the facility will continue to be the impression that visitors will take away from the Town of Barnstable. The facility will only get worse. Continued inconvenience for people needing to use the restrooms.

Project Cost Estimates: Design: \$95,668 Construction: 0

Project Estimated Completion Date: Summer, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$95,668	Design of New Lowell Park Comfort Station Facility
2014	\$477,202	Construction of New Lowell Park Comfort Station Facility

Source of Funding: General Fund User fees and/or Town of Barnstable CPA Funds (total amount) if approved by the CPC. Cotuit Athletic Association will contribute \$75,000 to this project if funded by TOB.

Operating Budget Impact: It will be a new building, new and modern fixtures will be installed which will be able to be maintained properly. Energy efficiencies will be carefully planned into the construction of the facility from the beginning and not as an after thought.

Project Cost Analysis:

Sq. Ft. Area	1,200			
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Cost/ Sq. Ft.	\$ 290			\$ 348,000
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Construction				
	range	actual		
Site Improvements				\$ 50,000
New Building				\$ 348,000
Subtotal				\$ 398,000
General Conditions	7-12%	9%		\$ 35,820
Subtotal				\$ 433,820
Contingency	15%	10%		\$ 43,382
Subtotal				\$ 477,202
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$ 477,202

Soft Costs				
Design				
	range	actual		
Design Fees	6-10%	6%	\$ 28,632	
Other Fees-		I.s.	\$ 5,000	
FF&E		I.s.	\$ -	
Project Management	5%	8%	\$ 38,176	
Contingency	5%	5%	\$ 23,860	
Total Estimated Project Soft Cost			\$ 95,668	
Total Estimated Project Cost				\$ 572,870



PROJECT: CS-13-12 **DEPARTMENT PRIORITY: 12 of 15**

Project Working Title: WEST BARNSTABLE COMMUNITY BUILDING INTERIOR IMPROVEMENTS

Project Location: Route 149, West Barnstable

Project Description: In the past four years, the West Barnstable Community Center building has seen an increase in its utilization and public interest. The residents have been attracted to this facility and continued repairs & improvements are required. The septic system is in poor condition and needs to be replaced. The ADA ramp needs new railings. The front meeting room floor is beyond its useful life and needs to be fully replaced.

Project Justification: The interior paint has deteriorated badly in the hallway and is in need of paint as well as the refinishing of the floor. Interior renovations continue to bring this Town asset back to a well maintained and useful public facility. The septic system continues to back-up during peak hours of operations. The front meeting room floor can only be refinished once more and should be replaced.

Describe Work Accomplished Prior Project: 1) 3 new heating systems, plumbing fixtures & drainage improvements; and 2) roof repair/replacement, exterior sidewall, trim, new exterior entrance doors have been replaced have been completed in 2009. Interior ceilings have been restored and 22 new vintage school house lighting fixtures have been installed. The wood floors in the meeting rooms have been refinished and walls painted

Impact of Denial/Postponement: The interior of the building will continue to deteriorate without additional improvements to allow its heavy community use. Failure to replace the septic system may lead to closure of the facility.

Project Cost Estimates: Design: \$45,834 Construction: \$129,492

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$175,326	Design and restoration of the interior hallway painting and new floors in hallway and front room, replacement of the septic system and other needed building repairs

Source of Funding: General Fund Potential for future Town of Barnstable CPA funds

Operating Budget Impact: None identified at this time

Project Cost Analysis:

Hard Costs_with OH+P

Construction

	range	actual	
Site Improvements w/ replacement septic system+ site grading			\$40,000
Interior flooring replacement/refinishing			\$21,000
Interior renovations, electrical/mechanical/fire alarm, exterior railings			\$38,000
window blinds			\$9,000
Subtotal			\$108,000
General Conditions	7-12%	9%	\$9,720
Subtotal			\$117,720
Contingency	15%	10%	\$11,772
Subtotal			\$129,492
Total Estimated Construction Hard Cost			\$129,492

Soft Costs

Design

	range	actual	
Design Fees	6-10%	0%	\$ -
Other Fees- septic system design		I.s.	\$7,000

FF&E		I.s.	\$22,000	
Project Management	5%	8%	\$10,359	
Contingency	5%	5%	\$6,475	
Total Estimated Project Soft Cost			\$45,834	
Total Estimated Project Cost				\$175,326

PROJECT: CS-13-13	DEPARTMENT PRIORITY: 13 of 15
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Project Working Title: **CENTERVILLE COMMUNITY BUILDING IMPROVEMENTS**
Project Location: Main Street, Centerville

Project Description: This project will fund the on-going historic adaptive reuse improvements to the Centerville Community Building and surrounding facilities. For the past several years, we have been making improvements to the interior and exterior of the building and adjoining program areas. These funds will continue repair tasks of greatest concern for the upcoming years. These improvements include:

- New playground equipment
- Continue exterior siding replacement and painting
- Renovate restrooms to make ADA compliant
- Improvements to electrical service, lighting and power distribution
- Improvements to life safety electrical exit signage, lighting, and alarm systems
- Egress improvements at exterior stair
- Replacement of ineffective HVAC controls.
- Replace period windows with new energy saving units
- Additional wall and ceiling insulation for energy savings
- Window treatments (blinds)

Project Justification: The Centerville Community Center building is a facility that is heavily used by Recreation Department programs, as well as Senior Services' Adult Supportive Day program, and the public on a daily basis, with its adjoining playground and ball field, and is one of the busiest Town facilities used by our residents and programs. Continuing to renovate and maintain this town asset adds to the preservation of a historic town resource. Funding the improvements would alleviate these hazards and help to make it a safer facility.

The HVAC DDC (direct digital control) hook-up will ensure a reduction of operating costs by regulating, scheduling and controlling the energy being used in the building. This portion of the CIP utilizes an innovative method of monitoring the building giving us the ability to improve efficiency and help make the building comfortable without the need to send staff to make an adjustment on site.

Given the heavy use of this facility the interior needs a significant amount of upkeep and maintenance which has been deferred for years. Our intention is to bring the building up to standard for safe use by all the citizenry.

Work Accomplished Prior Project: Improvements to parking lots, including pavement, curbs, landscaping, site lighting and ADA access ramp; drainage improvements; and related site work have been completed. The roof has been replaced. and the chimney will be pointed and repaired. The septic system has been replaced with a Title V compliant system. Lead paint has been removed on the front portico. It has proven to be more cost effective, to remove and replace the old clapboard siding instead

of de-leading. Some clapboards have been removed and replaced. More removal and replacement is necessary. Interior painting and wood floor refinishing has been completed.

Impact of Denial/Postponement: Lack of funding may result in closure of the building for program use due to non-compliant building, fire safety code issues and emergency egress problems. Continued deferred maintenance will result in deterioration of interior finishes, electrical and mechanical systems. The exterior lead paint is badly peeling and the siding should be fully removed instead of attempting to remove just the lead paint. The existing playground equipment has deteriorated and is a liability

Project Cost Estimates: Design: \$18,000 Construction: \$150,000

Project Estimated Completion Date: summer, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$168,000	Removal/replace/painting old exterior clapboard replace exterior wood fire escape.
2014	\$128,000	New playground equipment Renovate Restrooms Emergency signage and lighting.
2015	\$ 100,000	Improvements to electrical service, lighting and power distribution Improvements to life safety electrical exit signage, lighting, and alarm systems
2016	\$191,500	Egress improvements at exterior stair DDC (Direct Digital Controls) installed A/C installation
2017	\$ 216,200	Wood floor refinishing Window treatments (blinds) Replace period windows and doors with new energy saving units Additional wall and ceiling insulation for energy saves Interior painting and restoration

Source of Funding: General Fund Potential additional Town of Barnstable CPA funds for future approved work.

Operating Budget Impact: Expenses Air Conditioning added expenses -

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2013	0	\$0	\$0	\$0	\$ 0
2014	0	\$0	\$0	\$0	\$ 0
2015	0	\$0	\$0	\$2,000	\$2,000
2016	0	\$0	\$0	\$2,000	\$2,000
2017	0	\$0	\$0	\$2,000	\$2,000

PROJECT: CS-13-14	DEPARTMENT PRIORITY: 14 of 15
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Project Working Title: HYANNISPORT BREAKWATER REPAIR
Project Location: Hyannis Harbor

Project Description: The project consists of repair of the Town's section of the stone breakwater at Hyannisport.

Project Justification: Stones have been lost from the breakwater reducing it's effectiveness. The poor condition of the breakwater is a safety hazard for fishermen who fish from the breakwater.

Impact of Denial/Postponement: Postponing the project will allow more deterioration of the breakwater and reduce its ability to protect the harbor as well as increasing the safety hazard for those who fish from it.

Project Cost Estimates: Design: \$75,000

Project Estimated Completion Date: January 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 75,000	Design / Permitting
2014	\$	
2015	\$1,400,000	Construction

Source of Funding: General Fund Possible funding assistance from Army Corps of Engineers

Operating Budget Impact: None

PROJECT: CS-13-15

DEPARTMENT PRIORITY: 15 of 15

Project Working Title: **BISMORE PARK PHASE II – SITE IMPROVEMENTS**
Project Location: Ocean Street, Hyannis

Project Description: The Town of Barnstable has constructed a new clean, attractive and safe comfort station and Dockmaster's Office and Visitor Center in FY2009. This site work, needed to complete the park renovation project includes new brick pavements, site lighting, landscaping, irrigation, security, and banners.

Project Justification: In order to make the park user friendly, the walk along the bulkhead should be improved with visitor friendly site elements including wider pavements for visitors and fishing vehicles benches, lighting, signage, bus stop and improved parking lots.

Impact of Denial/Postponement: The site is over stressed with its combined use of commercial operations and visitor traffic. The parking/walk/drive system needs to be designed to accommodate mixed uses in a safe and manageable design organization. The artist shanties need to be relocated closer to Aselton Park on the north edge of the harbor in order to open up the site vista of the harbor itself.

Project Cost Estimates: Design: \$55,000

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 55,000	Design
2014	\$540,000	Construction

<u>Hard Costs</u>	<u>Construction</u>
Remaining Scope Items:	\$ 52,800
New store front entry system, glazing	
Refurbishing elevator	\$ 38,000
New garage air compressor	\$ 10,400
Replace all overhead doors & related mechanicals	\$ 30,000
Installation of new water filtration system	\$ 5,900
Replace 2nd floor carpeting, interior finishes	\$ 12,000
Replace 4 rear doors, hardware, frames	\$ 19,600
Total Estimated Construction Cost	\$ 168,700

<u>Soft Costs</u>	range	actual	<u>Design</u>	
Design Fees	6-10 %	10%	\$16,800	
Other Fees			\$	
Project Management	5%	5%	\$ 8,400	
Contingency	15%	15%	\$ 8,400	\$ 16,800
Project Subtotal			\$ 33,600	\$ 16,800
Escalation	12%	4%		\$ 6,700
Project Design & Const			\$ 33,600	\$ 192,200
Total Project Cost				\$225,800



4. PUBLIC WORKS

PROJECT: PW-13-1

DEPARTMENT PRIORITY: 1 of 36

Project Working Title: PUBLIC ROADS MAINTENANCE

Project Location: Various locations in Town

Project Location: As follows:

- Resurfacing of Merion Way from Country Club Drive to Midpine Road, and sections of Midpine Road in Barnstable.
- Resurfacing of Pleasant Street in Hyannis.
- Preventive maintenance chipseal: Wequaquet Lane in Centerville, Tea Lane, Parsley Lane, Ginger Lane, Thyme Lane, Cinnamon Lane, Curry Lane, Spice Lane and Nutmeg Lane in Osterville, Cammet Road and Old Falmouth Road in Marstons Mills.
- Preventive maintenance crackseal of various town roads to maintain service life of roads.
- Engineering Design and Permitting Services for road rehabilitation of South Main Street/Rushy Marsh Area of Cotuit.
- Design services for various construction quality control measures such as soil tests, pavement corings, concrete cylinder samples and roadwork inspection. Multiple road drainage sites town wide in known problem areas.

Project Description: This is a continuing essential program aimed at combating the progressive deterioration of the Town’s roads and provision of new storm water handling capacity. Depending on physical conditions and analysis using the Pavement Management software, the repairs may include one of several methods of repair including: full depth reconstruction, asphalt overlay, milling and paving or applying a chip seal surface layer. In addition to surface repair, improvement projects usually include installation of upgraded or new drainage systems as well as sidewalk rehabilitation wherever practicable.

Project Justification: The condition of the Town’s road system is deteriorating each year. Adequate maintenance and reconstruction where necessary is essential to preserve this major capital asset. Through the use of the Pavement Management System, we have identified a backlog of over \$30,000,000 of needed road repairs. This equates to over 100 miles of Town roads that need more than routine maintenance or repair. In addition, the Town has a backlog of approximately 250 locations where drainage improvements are required to protect public safety or prevent property damage.

Project Status: Previous funding of this project -

Project #PW-12-01	\$3,250,000
Project #PW-11-01	\$3,250,000
Project # PW-10-01	\$3,250,000
Project # PW-09-01	\$3,250,000
Project # PW-08-01	\$3,250,000
Project # PW-07-01	\$2,775,000

Describe Work Accomplished FY11/12:

Barnstable: Resurfacing of Oakmont Road, Hamstead Lane and Old Jail Lane

West Barnstable: Resurfacing of a section of Osterville-West Barnstable Road. Chip sealed Berkshire Trail and Church Street.

Hyannis: Milling and Paving of South Street and Pearl Street. Chip sealed Fifth Avenue, Old Craigville Road, Lafrance Avenue, Airport Road and Bishops Terrace. 3 Miles of Various Roads treated with preventive maintenance crack sealing.

Centerville: Reconstruction of Old Post Road and a section of Old Strawberry Hill Road, Milling and Paving of a section of Bumps River Road following water main installation work. Resurfacing of Bacon Lane and Captain Lijahs Road. Chip sealed Cedric Road, Ansel Howland Road, Buckskin Path, Monomoy Circle and Thoreau Drive.

Osterville: Chip sealed Woodland Avenue.

Marstons Mills: Resurfacing of Evergreen Drive, Nelson Lane and Lakeside Drive. Chip sealed Barberrry Lane. 5.4 Miles of Various Roads treated with preventive maintenance crack sealing.

Cotuit: Resurfacing of Hopewell Lane. Chip sealed Capt. Samadrus Road.

Impact of Denial/Postponement: The impact will be accelerated deterioration of our public roadway network, with resulting public safety hazards and liability, damage to private property and increased repair costs.

Project Cost Estimates: Design: \$150,000 Construction: \$3,100,000

Project Estimated Completion Date: June 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 3,250,000	Design and Construction
2014	\$ 3,250,000	Design and Construction
2015	\$ 3,250,000	Design and Construction
2016	\$ 3,250,000	Design and Construction
2017	\$ 3,250,000	Design and Construction

Source of Funding: General Fund

Operating Budget Impact: Higher maintenance costs if roads left unattended.

Supplemental Information: The Road Repairs program continues to utilize funding for the combination of road and drainage repairs, with the request for funding included in one consolidated request, with the exception of roads being considered for reconstruction or rehabilitation with the use of Chapter 90 funds and Highway Division maintenance funds. The majority of design, inspection and limited construction of drainage site improvements will continue to be completed by in – house personnel. Road drainage improvement costs include contingency funds and police details.

PROJECT: PW-13-2	DEPARTMENT PRIORITY: 2 of 36
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Project Working Title: HIGHWAY BUILDING ROOF REPLACEMENT
Project Location: 382 Falmouth Road, Hyannis

Project Description: The roof needs to be replaced on the main building at the Highway Facility. Various storms have damaged roof shingles, and combined with age, the roof shingles and underlying plywood sheathing need to be replaced to avoid interior damage to the new offices/equipment/ERC Center. This request is for the labor to purchase underlying sheathing and install the roof shingles. Roof shingles have already been purchased.

Project Justification: Capital funding from prior years has resulted in significant interior improvements to the main building at the Highway facility and has allowed for the consolidation of department personnel. However, the 20+ yr. old roof was not improved, and recent storms have resulted in lost roof shingles and damage to the underlying plywood sheathing. To avoid further structural damage and damage to the new offices/equipment, funding is requested to purchase and install new sheathing and roof shingles.

Describe Work Accomplished Prior Project: The initial Highway Office Renovation Project completed a limited architectural review in FY2000 and FY2001. Balance of funds used in FY2005 to provide temporary trailers noted and improved ventilation for temporary truck parking in the old garage building. FY06 funds provided for a feasibility study, preliminary design of a new truck storage building, and the Phase I ERC renovation has been completed. Construction of Phase II DPW Administration and

engineering offices has been completed. Shingles for the Phase III reroof project has been purchased and now await the availability of funding for the labor to install the roof.

Impact of Denial/Postponement: Delay of the reroofing of the building will put the completed renovation work in peril and cause structural damage to the roof support system. Shingles were blown off of the roof during the past hurricane.

Project Cost Estimates: Design: \$5,000 Construction: \$55,000

Project Estimated Completion Date: Summer, 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$60,000	Design & Construct new roof

Source of Funding: General Fund

Operating Budget Impact: Improved working conditions

Project Cost Analysis:

Sq. Ft. Area	1920			
Cost/ Sq. Ft.	31.25		\$60,000.00	

Hard Costs with OH+P

Construction

	range	actual		
Site Improvement Costs			\$ -	
Roof installation (labor for removal & replacement)			\$45,000.00	
Roof Plywood			\$10,000.00	
Design			\$5,000.00	
TOTAL				\$60,000.00

PROJECT: PW-13-3

DEPARTMENT PRIORITY: 3 of 36

Project Working Title: ERC HIGHWAY GENERATOR REPLACEMENT

Project Location: 382 Falmouth Road, Hyannis

Project Description: Replace standby generator and wiring systems with larger unit. The Highway Garage was renovated into new ERC and DPW administration offices over the past two years. The original building generator is coming to the end of its useful life. The existing standby generator, refurbished in FY2006, needs to be replaced with a larger unit as over much of the facility is not on the current generator in the event of a major power supply failure. The systems cannot be run on battery back-ups or UPS's, and the essential replacement of the emergency power generation is needed to adequately service all public safety, communications and facility systems during emergency conditions.

Project Justification: The Highway Department with the ERC and DPW Administration is one of the most heavily used buildings we have. The building is utilized 24/7 during emergencies. The new upgraded standby generator is essential if the facility is to continue providing full service during major power outages and during emergency situations. To keep this building from degrading in function or operation in the near future, these necessary improvements and changes need to occur. This building

will need to service Barnstable for a very long time into the future. We need to make sure it can still operate effectively & efficiently

Work Accomplished Prior Project: Highway Phase I and II are complete with the ERC which is the control center for all emergencies. We are currently using the old standby generator of limited capacity for the facility.

Impact of Denial/Postponement: Without a new properly sized generator, the entire emergency center and DPW administration operation could be compromised without power for heating, air conditioning and computer operations.

Project Cost Estimates: Design: \$43,800 Construction: \$243,500

Project Estimated Completion Date: Winter, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$287,300	Design + Construction of emergency generator

Source of Funding: General Fund

Operating Budget Impact: None

Project Cost Analysis:

Sq. Ft. Area			
Cost/ Sq. Ft.			

Hard Costs with OH+P

Construction

	range	actual	
Site Improvement Costs			\$40,000
Stand-by Generator + related wiring, switches			\$165,000
Subtotal			\$205,000
General Conditions	7-12%	8%	\$16,400
Subtotal			\$221,400
Contingency	15%	10%	\$22,140
Subtotal			\$243,540
Escalation	2-6%	0%	\$ -
Total Estimated Construction Hard Cost			\$243,540

Soft Costs

Design

	range	actual	
Design Fees	6-10%	8%	\$19,483
Other Fees		l.s.	\$ -
FF&E		l.s.	
Project Management	5%	5%	\$12,177
Contingency	5%	5%	\$12,177

2015

\$1,025,200

Design & Construct Structural

Source of Funding: General Fund

Operating Budget Impact: None

Project Cost Analysis:

Technical Discipline	FY	Des.	Const.	Eng. Support	Cont.	Inspect./Police	Total Cost
					10%	10%	
Short Term Electrical	2011	(\$30,121)	\$94,000	\$20,000	\$9,400	\$9,400	\$132,800
Short Term Mechanical	2011	(\$30,121)	\$131,000	\$20,000	\$13,100	\$13,100	\$177,200
Short Term Structural	2013	\$30,121	\$239,500	\$20,000	\$11,750	\$11,750	\$313,121
Short-Term Architectural	2013	\$30,121	\$100,000	\$20,000	\$17,800	\$17,800	\$185,721
Inter.Term Electrical	2014	\$30,121	\$75,500	\$20,000	\$7,550	\$7,550	\$140,721
Inter.Term Mechanical	2014	\$30,121	\$440,000	\$20,000	\$44,000	\$44,000	\$578,121
Inter. Term Structural	2015	\$50,000	\$796,000	\$20,000	\$79,600	\$79,600	\$1,025,200
Total Estimated Cost							\$2,552,884

NOTE: As design and construction proceeds certain component conditions may be discovered that will necessitate work not anticipated and potentially "cross over" between the disciplines herein separated.

PROJECT: PW-13-5 DEPARTMENT PRIORITY: 5 of 36

Project Working Title: HYANNIS HARBOR BULKHEAD REPAIR
Project Location: Terminus of School Street, Hyannis

Project Description: Survey, Design & Replacement Construction of Steel Bulkhead, associated rails and drainage features.

Project Justification: The area of steel bulkhead under consideration is showing signs of distress with flaking of the steel sheets and actual penetration of the steel where old drainage ways have eroded the backfill behind the steel. In addition surface collapse has occurred requiring Highway Division staff to do repair work immediately above the bulkhead. Lack of corrective action will result in a continued deterioration of the bulkhead, potentially resulting in a future collapse with extreme costs.

Impact of Denial/Postponement: Impact will be continued extra maintenance in and around the bulkhead area. Potential collapse would incur more severe costs as an emergency situation. Use of the harbor area which presently serves emergency services and Steamship Authority activities would be affected adversely.

Project Cost Estimates: Design: \$ 50,000 Construction: \$

Project Estimated Completion Date: December 2012

Project Cost/Description FY 2013 and Follow-On Years:

FY	Cost	Project Description/Components
2013	\$50,000	Survey & Design & Permitting
2014	\$136,000	

Source of Funding: General Fund

Operating Budget Impact: Avoids costly maintenance and repair costs

PROJECT: PW-13-6 **DEPARTMENT PRIORITY: 6 of 36**

Project Working Title: **SIDEWALK CONSTRUCTION PROGRAM**
Project Location: Town-wide

Project Description: This is a continuation of the ongoing program to expand and solidify the Town’s sidewalk network in order to provide a safe way for people to walk along our streets. Priority for new sidewalks is given to locations near our schools and public recreation facilities. This program was also designed to make repairs to existing sidewalks. As a result of a comprehensive field survey conducted, this year sections of existing sidewalks that have been identified as being in poor condition will be repaired and rehabilitated. Locations are the following: **Hyannis:** 1) Old Colony Rd. from South St to Main St., 1004 lf., 2) Walton Ave From rte 28 to Bearses Way, 1577 lf., 3) Ocean St. from Main St. to South St.(both sides), 1274 lf., **Marstons Mills:** River Rd from Cash market to Lovell’s Lane, 2325 lf., **Osterville:** Main St from Parker Rd. to Bay View Circle, 1977 lf., and **Centerville:** 1) Phinneys Lane from Main St. to Rte. 28, 1406 lf., and 2) Main St. from Phinneys Lane to Pine St. 3383 lf.

Project Cost Estimates: Design: \$0 Construction \$70,000

Project Estimated Completion Date: November 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 70,000	Resurface/Repair existing sidewalks
2014	\$ 250,000	Resurface/Design/Construct – Town-wide
2015	\$ 250,000	Resurface/Design/Construct – Town-wide
2016	\$ 250,000	Resurface/Design/Construct – Town-wide
2017	\$ 250,000	Resurface/Design/Construct – Town-wide

PROJECT: PW-13-7 **DEPARTMENT PRIORITY: 7 of 36**

Project Working Title: **TOWN HALL INTERIOR IMPROVEMENTS**
Project Location: 367 Main Street, Hyannis

Project Description: This project continues the **interior work needed to maintain the existing building.** The design and renovation of the slate roof and major masonry repairs/replacement have been completed via CPA funds which now allow for the interior renovation work. Interior projects carried in this CIP request include renovations to the offices, public areas, corridors, restrooms and stairwells; including needed electrical, mechanical and HVAC upgrades. Several of these improvements are considered to be public health and safety issues needing immediate attention. These improvements will increase the value and effectiveness of this highly utilized and busy facility. The recommendations from the initial study by the historic architect are summarized as follows. These items are subject to further study and programming and will be later updated. Note that space programming changes as a result of the historic architect services has not been incorporated within this CIP.

Due to the magnitude of the scope of work for renovations and possible reconfigurations, it is proposed to accomplish this work under a multi-phased 5 year program. This will allow the Town Hall to function while in the renovation process.

Phase IA: Stairwell restoration and renovation work, including architectural, mechanical, electrical, sprinkler, fire safety, space enclosure with new rated doors and hold open devices, related finishes and improvements which will bring the public stair into code compliance and repair the water damage.

Phase IB: Conceptual architectural and engineering design and cost estimating services for the full interior renovation and possible reconfiguration of the Town Hall interior spaces. This concept study will identify the remaining phases II, III, IV. Also the contract and renovation work for the first floor offices, corridor and security improvements to the public counter areas.

Phase II, III, IV: Preparation of contract documents for a portion of the renovation/reconfiguration of the building including architectural, mechanical, electrical, sprinkler, life safety systems as determined in Phase IB.

The concept study will incorporate the corrections of the following conditions, but not limited to these:

- Replacement of the HVAC head-end and distribution systems
- Removal of original abandoned coal bin, structure and inoperable steam boilers
- ADA access to main floor of the building
- Upgrade the elevator to meet standards
- Improve stairs to meet code requirements
- Reorganize interior spaces per approved space program
- Upgrade all public counters to meet ADA requirements
- Renovate all public toilets to meet code requirements
- Renovate interior passageways to meet minimum clearances
- Relocate and install proper fire alarm devices throughout
- Modify railings at Hearing Room platform to standards
- Remove and replace damaged plaster; remove mold and repair as needed
- Install fire-rated drywall ceilings as required to meet code
- Waterproof basement walls and floor as required
- Install new ceiling mounted unit ventilators as needed
- Replace existing steam boiler and hot water boiler with modulating boilers
- Replace cast iron radiators with fin tube radiation and control valves
- Install direct digital control system
- Insulate all piping throughout
- Remove damaged concrete at vault and repair leaking basement vault reinstall new hot water indoor air handlers for ventilation
- Upgrade room lighting and power distribution
- Install new interior floor, wall and ceiling finishes throughout
- Renovate sprinkler system to suit revised floor plan

Project Justification: Town Hall is the public image of the Town. The building needs continual upgrades and improvements. The public areas in Town Hall are a poor impression of the Town of Barnstable, with chipped paint and peeling wallpaper. The restrooms all need renovation and ADA related improvements. The HVAC, plumbing, electrical and related systems and devices are at the end of their useful life and need full replacement. The fire alarm system and stairwell enclosures do not meet present code standards. Air quality concerns exist with mold within walls and ceilings due to a poor HVAC system and many years of moisture leaking thru the walls from the exterior. Any plan changes to suit a changed space program will require basic changes to building systems throughout.

received citizen requests for a pedestrian cycle to be incorporated at this location. In addition the existing traffic signal is over 20 years old and in need of upgrade to the control box and signal heads.

Impact of Denial/Postponement: Safety improvements for our roadways should always be a priority – intersections with a high pedestrian use contain an even higher safety risk. Denial or postponement of this request extends the potential for accidents. In addition, the traffic signal equipment at this location is old and needs replacement to ensure efficient traffic control.

Project Cost Estimates: Design: \$33,030 (FY13)

Project Estimated Completion Date: Design – Nov. 15, 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$33,030	Project Survey and Design
2014	\$297,290	Project Construction

Source of Funding: General Fund

Operating Budget Impact: All Town traffic signal installations require operating budget expenditures. By installing “state of the art” equipment upgrades at our traffic signals the maintenance costs will be reduced.

Supplemental Information: (use additional pages if needed)

COST ESTIMATE - TRAFFIC SIGNAL UPGRADE - WEST MAIN ST. /PITCHERS WAY INTERSECTION				
ITEM NO	QUANTITY	ITEM DESCRIPTION	UNIT PRICE	TOTAL
MHD 129	1350 SY	PAVEMENT MILLING	\$8.00	\$10,800
MHD 460.	155 TON	HMA PAVING	\$90.00	\$13,950
MHD 503	280 FT.	VERT. GRAN CURB	\$45.00	\$12,600
0.00000000	200 FT	NEW SIDEWALK	\$70.00	\$14,000
MHD 701.2	50 SY	WHEELCHAIR RAMP	\$80.00	\$4,000
MHD 816.01	1LS	TRAFFIC SIGNAL RECON.	\$160,000	\$160,000
MHD 832.1	4EA	WARNING SIGNS	\$200.00	\$800
MHD 852	250 SF	TEMP SAFETY SIGNAGE	\$15.00	\$3,750
MHD 865	200 SF	CROSS WALKS	\$1.50	\$300
			CONSTRUCTION	TOTAL
				\$220,200
			20% CONT.	\$44,040
			SOFT COSTS	
			DESIGN	15%
			PROJ.MAN.	5%
			INSPECTION	5%
			POLICE	5%
			TOTAL PROJECT COST	\$330,300

PROJECT: PW-13-9	DEPARTMENT PRIORITY: 9 of 36
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Project Working Title: SURVEY EQUIPMENT
Project Location: Survey & Technical Support, DPW Administration

Project Description: Purchase Survey Field Equipment and Mapping Software

Project Justification: The Survey Division is working with XX old survey field equipment that is both insufficient and outdated, resulting in manpower inefficiency, response delays and less accurate and detailed survey data that is used by several Town Departments. This Global Navigation Satellite System (GNSS) enabled equipment is designed to deliver reliable, precise land/property boundary coordinates as well as receive data from the office to assist the field staff. The accompanying computer software allows the delivery of field survey data instantaneously from the field to the office, thereby assuring quality assurance and quality control of data, security of data, expanded use (modeling) of the data, and enhanced file management.

Impact Of Denial/Postponement: Loss of efficiency/work productivity; delay in delivering receivables to various Town Departments; and, significantly less quality control/quality assurance of survey work.

Project Cost Estimates: Purchase: \$64,349

Project Estimated Completion Date: September 30, 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$64,349	Complete purchase cost

Source of Funding: General Fund

Operating Budget Impact:

<u>FY</u>	<u>Expenses</u>	
2013		
2014	\$3,135	Annual network maintenance cost
2015	\$3,135	Annual network maintenance cost
2016	\$3,135	Annual network maintenance cost
2017	\$3,135	Annual network maintenance cost

PROJECT: PW-13-10	DEPARTMENT PRIORITY: 10 of 36
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Project Working Title: 200 MAIN STREET TOWN OFFICES
Project Location: 200 Main Street, Hyannis, MA

Project Description: This phase of the project is to complete the reconstruction of the second floor, the remainder of the first floor, and the basement of the building.

Project Phases:

Phase I: The basement will be converted to climate controlled storage space for Town records, as requested by the Town Clerk, including secure vault storage, accessible by stairs and a new 3 stop elevator for access.

Phase II: The project would complete the renovation of the second floor area, The space would include a large Hearing Room to accommodate meetings of various boards with seating for the public and special facilities for television monitoring. The Hearing Room would be accessed by either the front main stairs or a new interior elevator that would be funded by this project. Bathroom facilities for the public will also be constructed at the front of the second floor for visitors

and board members attending the meetings and bathroom facilities for employees at the opposite end of the floor. The middle and back areas of the second floor will be renovated to hold additional relocated Town departments. The first floor area behind the existing conference room would be reconfigured for additional offices, custodial and equipment area, an access door. In addition to interior work, the back side of the building will get a face lift to match the side.

Lastly, but most importantly, we need to provide the new offices with adequate parking spaces. Without solving the parking issue, no additional improvements to the second floor area should occur. This may mean the acquisition of additional land for parking to support additional space, its preparation, and paving. The costs for this are not included in this CIP.

Describe Work Accomplished Prior Project: Feasibility study has been completed. The re-roofing of the building has been completed.

Impact of Denial/Postponement: The Town Clerk has recently specifically asked for a good, dry, and secure area for the storage of town records required by statute. There is no other area available to the clerk for this record storage. The Town offices at 200 Main Street, second floor will remain dry goods storage space. Meetings will need to be scheduled in the Town Hall Hearing Room, and departments that can be moved to the second floor of this new building will remain at their present locations. Inadequate, non-secure storage of Town records will continue. Inefficient use of a portion of the first floor will continue.

Project Cost Estimates: Design: \$51,143 Construction: \$284,128
Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 335,271	Phase I design & construction
2014	\$4,691,419	Phase II design & construction

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

(1) The existing parking facilities are not adequate to accommodate future expansion of office space at this site. As many as 60 additional parking spaces may be required. No cost has been carried for parking acquisition.

(2) Depending upon what repairs may be needed at the Town Hall and SAB Buildings, and if staff may need to be relocated for those projects, consideration should be given to completing the offices at 200 Main to be potentially available should that need be required during any interior renovation project at TH or SAB.

Project Cost Analysis Phase 1

Sq. Ft. Area	2440			
Cost/ Sq. Ft.	\$ 60		\$146,400	

Hard Costs with OH+P

Construction

	range	actual		
Interior renovations			\$146,400	

New 3 stop elevator			\$95,000	
Subtotal			\$241,400	
General Conditions	7-12%	7%	\$16,898	
Subtotal			\$258,298	
Contingency	15%	10%	\$25,830	
Subtotal			\$284,128	
Escalation	2-6%	0%	\$ -	
Total Estimated Construction Hard Cost			\$284,128	

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	\$22,730	
Other Fees		I.s.	\$ -	
FF&E		I.s.		
Project Management	5%	5%	\$14,206	
Contingency	5%	5%	\$14,206	
Total Estimated Project Soft Cost			\$51,143	

Total Estimated Project Cost

\$335,271

Project Cost Analysis Phase 2

Sq. Ft. Area	16,278			
Cost/ Sq. Ft.	\$195		\$3,174,210	

Hard Costs with OH+P

Construction

	range	actual		
Interior renovations			\$3,174,210	
Subtotal			\$3,174,210	
General Conditions	7-12%	8%	\$253,937	
Subtotal			\$3,428,147	
Contingency	15%	15%	\$514,222	
Subtotal			\$3,942,369	
Escalation	2-6%	0%	\$ -	
Total Estimated Construction Hard Cost			\$3,942,369	

Soft Costs

Design

	range	actual		
Design Fees	6-10%	9%	\$354,813	
Other Fees		I.s.	\$ -	
FF&E		I.s.		
Project Management	5%	5%	\$197,118	
Contingency	5%	5%	\$197,118	
Total Estimated Project Soft Cost			\$749,050	

Total Estimated Project Cost

\$4,691,419



2nd Floor 200 Main Street Town Offices

PROJECT: PW-13-11

DEPARTMENT PRIORITY: 11 of 36

Project Working Title: STRUCTURES & GROUNDS (S&G) EXISTING FACILITY UPGRADES
Project Location: 800 Pitcher's Way, Hyannis

Project Description: The existing Structures & Grounds building was constructed over 25 years ago and is in need of renovations and upgrades to extend its useful life. This program will focus on improving life safety systems and code issues. Later programs address both interior and exterior finishes of the facility which are in need of improvement. There are currently 34 employees working out of this facility not counting seasonal staff.

Project Justification: An ongoing program of renovations is necessary in order to protect the investments the Town has made in its capital assets. Many improvements identified are life safety and code compliance issues.

- Install roofing membrane over existing roof system
- Install new HV units, exhaust fans, and carbon monoxide detectors per code
- New oil/water separator and / or tight tank system for floor drains
- Install second floor means of egress
- Install second floor elevator
- New fire rated door and completion of fire separation wall
- Storage garage personnel egress door
- Replace/repair modified C shaped end rafter
- Replace missing wind bracing with portal framing
- Repair damaged siding

Impact of Denial/Postponement: It is necessary to extend the useful life of this facility by protecting it from water leakage into this core operational facility.

Project Cost Estimates: Design: \$23,000 Construction: \$130,000

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 65,000	Replace septic system or tie-in sewer line across Falmouth Road1.04
	\$ 65,000	Replace metal panel roof
	\$ 23,000	Project management, contingency & escalation
	\$153,000	
2014	\$31,000	Install new HV units, exhaust fans, and carbon monoxide detector
	\$31,000	New oil/water separator and / or tight tank system for floor drains
	\$18,000	Project management, contingency & escalation
\$80,000		
2015	\$55,000	Install second floor means of egress
	\$ 9,000	New fire rated door and completion of fire separation wall
	\$18,000	Project management, contingency & escalation
\$82,000		
2016	\$ 9,000	Storage garage personnel egress door
	\$18,300	Replace/repair modified C shaped end rafter
	\$18,300	Replace missing wind bracing with portal framing
	\$ 8,500	Repair damaged siding
	\$16,000	Project management, contingency & escalation
\$71,100		
2017	\$145,000	Install second floor elevator
	\$ 42,000	Project management, contingency & escalation
\$187,000		

Source of Funding: General Fund

Operating Budget Impact: Avoids costly maintenance costs and Extends useful life of the facility.

PROJECT: PW-13-12	DEPARTMENT PRIORITY: 12 of 36
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Project Working Title: SCHOOL ADMINISTRATION BUILDING MECHANICAL SYSTEM IMPROVEMENTS

Project Location: School Administration Building, 230 South Street, Hyannis

Project Description: A summary of improvements follows:

Phase I: Mechanical Head-end Upgrades at Lower Level

Emergency generator, cooling plant, sprinkler and hot water system equipment replacement

- Renovation and expansion of the existing basement mechanical room and egress paths to accommodate a replacement emergency generator (reuse of the B PD old generator) and 30 ton cooling plant including the head-end upgrade of the sprinkler service. Removal of the old, inoperable existing generator, related concrete mounting pad and other old equipment. Replacement of the existing electric hot water heater with a new gas fired hot water heater and thermostatic mixing valve. Relocation of the gas service from the electric room into the mechanical room (another code violation).

- Installation of new fire rated walls and ceilings throughout out the basement level including rated door improvements along the access ways and improvements to the exit (eliminate the fire escape) at the south stairway as required by code. This is a public safety issue needing attention.

Phase II: Interior Renovations to Building

- Limited interior reorganization of space, finishes, ADA access, toilet rooms. Work reflective of the historic architect’s programming and schematic design subject to approval **may** increase the actual cost for this work.
- Mechanical/electrical upper floor distribution, replacement, and energy conservation improvements throughout including new electrical service HVAC controls, communications, fire alarm, sprinkler, plumbing and related HVAC improvements, and new elevator.

Project Justification: The historic building study reported significant deficiencies in this building. The exterior restoration work is in design and will be accomplished utilizing part CIP and CPA funds. The Phase I work above would best be accomplished during the exterior restoration project and be incorporated with the requested funds herein. These recommendations are included in the two phases described above. The Phase II work should follow the completion of the exterior restoration work and will accommodate future program needs of the Town as approved.

Project Status: In FY09 CPA Funds were secured for the engineering assessment. FY10 provided funding of \$144,000 for the low roof repairs and replacement work. Currently there is \$161,000 identified to be used with the request CPA funds for the exterior restoration project moving into design at this time to take care of the roof replacement at SAB. CPC funds of \$1,042,000 were appropriated for use on the exterior restoration of the SAB.

Describe Work Accomplished Prior Project: Building study by the historic architect and his engineers has been completed. Additional funding from CPA for the exterior restoration work has been added into the project. The existing heating plant has been replaced with 3 high efficiency modulating boilers.

Impact of Denial/Postponement: The building condition study indicates the need for significant head-end mechanical and accessibility improvements. These would be best addressed along with the exterior restoration project. If left as is, further deterioration will occur with increased scope of repairs resulting in additional inflation and restoration cost.

Project Cost Estimates: FY13 Design & Soft Costs: \$312,340

Project Estimated Completion Date: Winter, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$312,340	Phase I: design
2014	\$1,250,000	Phase I: renovations
2015	\$1,561,700	Phase II: design and renovations

Source of Funding: General Fund. CPA Funds have been secured for the engineering assessment in the amount of \$66,700.00. These funds were used to retain the historical architect to do the study of the SAB. Further additional CPC funds have been appropriated by the TC of \$1,042,000 for the historic restoration of the exterior envelope identified during the assessment.

Operating Budget Impact: Utility savings will be realized by the mechanical improvements to the building mechanical and electrical systems.

Supplemental Information: The historic architect’s study of the SAB is complete and the cost estimates are reflective of their recommendations.

Project: SAB Phase I - Mechanical Upgrades

Sq. Ft. Area			
Cost/ Sq. Ft.			

Hard Costs with OH+P

Construction

	range	actual	
Reinstallation of B PD generator/ building			\$60,000
30 T Cooling Plant			\$80,000
Insulate all piping			\$40,000
Sprinkler head-end upgrade			\$28,000
Gas hot water heater system			\$9,800
Condensate piping			\$18,000
Structural demolition & renovations to walls, ceiling and enclosures			\$105,000
Replace fan coil units			\$40,000
HVAC upgrades, pumps, controls, piping, etc.			\$235,000
Fire alarm panel			\$44,000
Power distribution & life safety systems			\$110,000
Gas service			\$60,000
Subtotal			\$829,800
General Conditions	7-12%	12%	\$99,576
Subtotal			\$929,376
Contingency	15%	15%	\$139,406
Subtotal			\$1,068,782
Escalation	2-6%	0%	\$ -
Total Estimated Construction Hard Cost			\$1,068,782

Soft Costs

Design

	range	actual	
Design Fees	6-10%	15%	\$160,317
Other Fees		I.s.	\$ -
FF&E		I.s.	
Project Management	5%	5%	\$53,439
Contingency	5%	5%	\$53,439
Total Estimated Project Soft Cost			\$267,196

Total Estimated Phase I Project Cost

\$1,335,978

Project: SAB Phase II - Interior Renovations

Sq. Ft. Area	21,110		
Cost/ Sq. Ft.			

Hard Costs with OH+P

Construction

Based upon CBI study without major reconfiguration		range	actual	
Interior renovations including mechanical, electrical, plumbing, finishes, reconfiguration of some offices				\$800,000
Elevator				\$170,000
Subtotal				\$970,000
General Conditions	7-12%	12%		\$116,400
Subtotal				\$1,086,400
Contingency	15%	15%		\$162,960
Subtotal				\$1,249,360
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$1,249,360
<u>Soft Costs</u>		<u>Design</u>		
		range	actual	
Design Fees	6-10%	15%		\$ 187,404
Other Fees		I.s.		\$ -
FF&E		I.s.		
Project Management	5%	5%		\$ 62,468
Contingency	5%	5%		\$ 62,468
Total Estimated Project Soft Cost				\$ 312,340
Total Estimated Phase II Project Cost				\$1,561,700



Project Working Title: OLD TOWN HALL IMPROVEMENTS (JFK MUSEUM)

Project Location: Main Street, Hyannis

Project Description: These funds would provide for:

- Removal of lead paint on columns, prime and paint
- Painting of town seal
- Repairs to outside electrical fixtures
- Roofing & masonry repairs
- Selective masonry repairs to window lintels
- Renovations to the men's & women's restrooms on the 2nd floor
- Lead removal of existing paint at portico and entrance surround and repainting
- Minor renovations and repairs to 2nd floor
- Installation of new roof hatch and access ladder
- Mold remediation in remaining basement spaces
- Renovations to basement bathroom
- Painting of stairwell and portions of basement

Project Justification: The Old Town Hall (OTH) has been the center for many badly needed renovations, repairs and improvements in the past 5 years. Today it is on the verge of becoming a completely updated facility - particularly with the addition of the Cape Cod Baseball League Hall of Fame as a tenant in the basement. Since the Chamber of Commerce has leased the building, the day to day maintenance has been taken over by that organization; however, the more costly responsibility of the building itself and its equipment remains with the Town. The renovations of paint, repairs, and bathroom renovations would help the Town keep the OTH as functional as it is aesthetically pleasing. The mold problem in portions the basement of the OTH is a condensate type mold found in most basements of Cape Cod which needs to be addressed through remediation and de-humidification, and is considered a potential *public health safety hazard*.

Work Accomplished Prior Project: New energy efficient windows, new roof, new elevator, HVAC units, new alarm system, new fire sprinkler system, and accessibility remediation. A portion of the Basement has been renovated to accommodate the new baseball museum. The entry steps have been repaired.

Impact of Denial/Postponement: The exterior of the building is in need of repair as it is aging and continues to need regular attention to avoid deterioration. This facility will be without updated fully functional restrooms on the second floor, a growing mold and public health safety problem, and a lack of a building code compliant safe roof access.

Project Cost Estimates: Design: \$ 51,000

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$51,000	Design
2014	\$195,000	Construction

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

FY2013

- project management/contingency \$ 51,000

FY2014

- Masonry repairs at window lintels \$ 25,000
- renovations to 2nd floor restrooms w ADA considerations \$ 42,000
- renovations/repairs to 2nd floor general offices \$ 19,000
- Portico restoration, lead abatement \$ 28,000
- new roof access hatch and ladder \$ 8,000
- renovations to basement restroom \$ 28,000
- basement mold remediation \$ 27,000
- general painting basement/archives areas \$ 18,000



OTH Basement



OTH Portico

PROJECT: PW-13-14

DEPARTMENT PRIORITY: 14 of 36

Project Working Title: BUMPS RIVER BRIDGE REPAIR
Project Location: South Main Street, Centerville

Project Description: Repair of various deficiencies as identified by the Massachusetts Department of Transportation in their field report dated July 9, 2010. Items to be addressed include Cracks across the deck, open joints in the sidewalks, delamination of the concrete railings, deficient or non existent guardrail systems and broken brace supports in the sub structure. This request is for project design and permitting. Field survey will be performed in house

Project Justification: As with all our assets, attention to deteriorating conditions in a timely manner will save money in the long run. The Bumps River roadway bridge is vital to the transportation needs of the community and deficiencies have been identified by professionals at the State level.

Impact Of Denial/Postponement: The Bridge will further deteriorate over time and more extensive repairs will be needed. The lack of guardrails could allow serious accidents to occur.

Project Cost Estimates: Design: \$28,825

Project Estimated Completion Date: FY 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 28,824.67	Design & Permitting
2014	\$ 111,180.87	Construction

Source of Funding: General Fund

Project Cost Analysis:

ITEM	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL
MHD 107.47	90 FT	JOINT SEALER	75.40	\$6,786.00
MHD 129.6	16 SY	BRIDGE PAVEMENT EXC	23.40	\$374.40
MHD 455.71	5 TON	SUPERPAVE BRIDGE	180.00	\$1800.00
MHD 482.31	72 FT	SAWING AND SEALING JOINTS	15.60	\$1,123.20
MHD 622.1	800 FT	GUARD RAIL	40.00	\$32,000.00
MHD 628.1	2 EA	GUARD RAIL LEADING END	2,075.00	\$4,150.00
MHD 628.2	4 EA	BRIDGE RAIL TO GR TRANS	2,562.00	\$10,248.00
MHD 909.12	5 CF	POLYMER LATEX CONC. PATCH	3,135.00	\$15,675.00
0	LS	TIMBER REPLACEMENT & CLEANING	5,000.00	\$5,000.00
MHD 852.	LS	CONSTRUCTION SIGNAGE	500.00	\$500.00
		SUB TOTAL		\$82,356.20
		20% CONT.		\$16,471.24
		SOFT COSTS		
		DESIGN 20%		\$16,471.24
		PERMITTING 15%		\$12,353.43
		PROJ.MAN. 5%		\$4,117.81
		INSPECTION 5%		\$4,117.81
		POLICE 5%		\$4,117.81
		TOTAL PROJECT COST		\$140,005.54

Operating Budget Impact: None



Bumps River Bridge – Surface Cracking

Project Justification: Mosswood cemetery is the town's largest cemetery. The Grounds and Cemetery Team (15-20 employees) are stationed there and utilize a single tiny bathroom in the Cemetery Office area. This restroom is not only used by the employees and visitors conducting business at the cemetery office, but also by the mourners who are attending burial services at Mosswood. The addition would be two fold – providing toilets and wash up area for the Grounds/Cemeteries employees in a locker type area as well as providing a public handicap accessible comfort station with access from the exterior for the residents visiting the cemetery and attendees at burial services.

Work Accomplished Prior Project: The parking lot development has been bid and construction is scheduled to begin

Impact of Denial/Postponement: We will continue to have problems with not having a public restroom at this place of business that is not handicap accessible, as well as the inconvenience to our customers and residents with the present setup. Continued use of inadequate facilities for our employees.

Project Cost Estimates: Design: \$43,600 Construction: \$270,618

Project Estimated Completion Date: Spring, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$301,272	Design and construction

Source of Funding: General Fund with Possible transfer from the Kirkman Fund.

Operating Budget Impact: None

Project Cost Analysis:

<u>Hard Costs</u>			<u>Design</u>	<u>Construction</u>
Sq. Ft. Area		550		
Cost/Sq. Ft.		\$228		
Building	Estimated	Construction		
Cost				\$ 125,400
Site Improvement Costs				\$110,000
Total Estimated Construction Cost				\$235,400
<u>Soft Costs</u>				
	range	actual		
Design Fees	6-10 %	8%	\$ 18,832	\$ -
Other Fees				\$ 2,000
Project Management	5%		\$ 11,770	
Contingency	15%	10%	\$ 11,770	\$ 12,100
Project Subtotal			\$ 42,372	\$ 14,100
Escalation	12%	4%		\$ 9,400
Project Cost			\$ 42,372	\$ 258,900

Total Project Cost \$ 301,272



PROJECT: PW-13-17

DEPARTMENT PRIORITY: 17 of 36

Project Working Title: Parking Lots (Town – Owned)
Project Location: Town Wide

Project Description: Rehabilitation of existing parking Lot surfaces by means of appropriate repair based upon existing conditions to include pavement overlay or reclamation that includes pulverizing existing surface, fine grading, compacting and repaving. Existing surfaces are cracked, broken and sunken in areas resulting in inadequate drainage and safety hazards associated with the uneven surfaces.

Project Justification: Parking areas, whether associated with a Municipal Facility or Beach area are often the first contact that residents and visitors have with the Town. Most of our parking areas consist of the original pavement surface which, in addition to being worn out on the surface is often of inadequate thickness and has little gravel base support. Attempts to maintain the parking lot surfaces by means of crack sealing and pavement overlays are not recommended as these areas are too far deteriorated and money would be wasted on short term fixes. Reclamation (grinding up) of existing surfaces, regarding to alleviate puddling and uneven areas and paving with an adequate thickness of asphalt will ensure useable, safe and aesthetically pleasing “gateways” to our Beaches and Municipal facilities. This year’s project will include only the Ocean Street parking area. Other priority sites will be addressed in subsequent years.

Impact of Denial/Postponement: Each year that passes will result in the deterioration of our parking lot surfaces. Cracks and uneven surfaces will create unsightly and unsafe conditions for our many visitors and residents alike. Snow plowing in winter and sweeping of the surfaces will become more difficult and less effective. The poor conditions could impact revenue expectations and will result in higher maintenance and capital costs in the future.

Project Cost Estimates: Construction \$640,139.00

Project Estimated Completion Date: May 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$640,139	Reclamation & Repaving Existing Parking Lots
2014	\$200,000	Design & Construction Parking Lots
2015	\$200,000	Design & Construction Parking Lots

2016 \$200,000
 2017 \$200,000

Design & Construction Parking Lots
 Design & Construction Parking Lots

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information: FY 13 parking lot CIP request identifies priority lots with poor surface conditions – Ocean Street Hyannis, Veteran’s Beach Parking Lot, JFK Memorial Parking area and the DPW Highway parking and vehicle use lot.

Parking Lot Cost Estimates are based upon MADOT pricing for the various unit costs associated with this work as follows: Reclaim Pavement - \$5.00/SY, Fine Grade - \$3.35/SY, Add Stone - \$4.44/SY, Pave (4” for Reclaimed areas) -\$90.00/Ton Total cost = \$33.31/SY– Line striping included in contingencies

Based upon above, cost estimates for the 4 parking lots are as follows:

Ocean Street	\$114,919
Veteran’s Beach	\$324,687
Kennedy Memorial	\$51,139
DPW Highway	\$149,394
Total Repair Cost	\$640,139



Ocean Street



Veterans Beach



Kennedy Memorial



DPW Highway

PROJECT: PW-13-18

DEPARTMENT PRIORITY: 18 of 36

Project Working Title: HIGHWAY SITE BUILDINGS – REPLACEMENT/CONSOLIDATION

Project Location: 382 Falmouth Road, Hyannis

Project Description: This is a six phase project to correct serious deficiencies in working conditions within the Department of Public Works. Two phases have been completed. The ongoing feasibility study

Source of Funding: General Fund

Operating Budget Impact: None identified to date

Highway DPW Phase III

Sq. Ft. Area	1920		
Cost/ Sq. Ft.	225		\$432,000.00

Hard Costs with OH+P

Construction

	range	actual	
Phase III Highway Staff Lockers, Showers, Offices			\$432,000.00
Subtotal			\$487,000.00
General Conditions	7-12%	8%	\$38,960.00
Subtotal			\$525,960.00
Contingency	15%	10%	\$52,596.00
Subtotal			\$578,556.00
Escalation	2-6%	0%	\$ -
Total Estimated Construction Hard Cost			\$578,556.00

Soft Costs

Design

	range	actual	
Design Fees	6-10%	4%	\$23,142.24
FF&E		l.s.	\$10,000.00
Project Management	5%	8%	\$46,284.48
Contingency	5%	5%	\$28,927.80
Total Estimated Project Soft Cost			\$108,354.52
Total Estimated Phase III Project Cost			\$686,910

Highway DPW Phase IV & V

Sq. Ft. Area	16,000		
Cost/ Sq. Ft.	\$ 200		\$3,200,000

Hard Costs with OH+P

Construction

	range	actual	
Site Improvement Costs			\$550,000
Highway Garage			\$3,200,000
Subtotal			\$3,750,000
General Conditions	7-12%	9%	\$337,500
Subtotal			\$4,087,500
Contingency	15%	10%	\$408,750
Subtotal			\$4,496,250
Escalation	2-6%	0%	\$ -
Total Estimated Construction Hard Cost			\$4,496,250

Soft Costs

Design

	range	actual	
Design Fees	6-10%	6%	\$269,775
Other Fees		I.s.	\$20,000
FF&E		I.s.	\$4,000
Project Management	5%	5%	\$224,813
Contingency	5%	5%	\$224,813
Total Estimated Project Soft Cost			\$743,400
Total Estimated Phase IV & V Project Cost			\$5,239,650



Salt Shed

PROJECT: PW-13-19

DEPARTMENT PRIORITY: 19 of 36

Project Working Title: TRAYSER MUSEUM REPAIRS
Project Location: 3353 Main Street, Route 6A, Barnstable

Project Description: This project would fund needed limited masonry & fenestration repairs of the building. They would provide for design services only for such improvements for selective masonry repairs and window restoration. Additional improvements listed in the historic building study will follow as funding becomes available.

Project Justification: Erected in 1856 the building has been patched, repaired and painted but heavier renovations are now necessary. Masonry and exterior metal deterioration continues to allow moisture penetration into the structure. Windows need restoration work immediately.

Work Accomplished Prior Project:: A Historic building study was completed for this building under CPC funding. The following cost estimate is based on that study and reflect only a portion of work needed per the study report.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$40,000 Construction: \$ 181,019

Project Estimated Completion Date: Fall, 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 40,000	Design
2014	\$ 181,019	Repairs

Source of Funding: General Fund and CPC

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Soft Costs

	range	actual				
Architectural Fees - Contract Documents	8-15%	I.s.				\$ 20,000
Advertising, Printing, Postage		I.s.				\$ 700
Haz-Mat Consultant-Investigation/spec		I.s.				\$ 5,000
Project Management	4-5%	I.s.				\$ 7,000
Contingency						\$ 7,300
Total Estimated Soft Cost						\$ 40,000

Hard Costs

	range	actual	Remarks	Quantity	Cost	Subtotals
Window Restoration/Glazing/Painting						
Windows: 21 Window Restoration / Replication: \$125 Per SF				22	4,091	\$ 90,002
Interior Storm Units - Add / Alternate			10,352			\$ -
Repair Wood Sills & Trim						\$ 23,080
Paint Exterior Windows						\$ 2,760
Remove & Replace Painted Glass with Opaque Glass						\$ 120
Caulk						\$ 900
Masonry And Flashing Repairs						
Cut & Point 10% Of Masonry						\$ 8,844
Replacement of 20 SF of Brick						\$ 1,800
Pin & Replace Existing Metal Flashing						\$ 2,370
Staging Exterior / Lift						\$ 10,058
Subtotal						\$ 139,934
Contractors General Conditions	12%	12%				\$ 16,792
Subtotal						\$ 156,726
Contractors Overhead & Profit	10-15%	10%				\$ 15,673
Subtotal						\$ 172,399
Construction Contingency	5%-15%	5%				\$ 8,620
Subtotal						\$ 181,019
Total Estimated Project Cost						\$ 221,019

Project Working Title: BURGESS HOUSE IMPROVEMENTS
Project Location: 559 Route 149, West Barnstable

Project Description: This project would fund needed stabilization of the building structure and access improvements to the Burgess House. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: Erected in 1720 the building has been patched, repaired and painted but heavier renovations are now necessary. ADA access to the building is required as part of this work.

Work Accomplished Prior Project: Stabilization work to the building has been conducted by the Marstons Mills Village Association. A Historic building study was completed for this building under CPC funding. The cost estimates are based on that study.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$91,063.81

Project Estimated Completion Date: April 2013 (design and permitting)

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$91,064	Design & Permitting
2014	\$343,756	Burgess House Improvements

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Hard Costs

Construction

	range	actual	
Site Improvements			35,159
Superstructure, Exterior Walls, Windows, Doors			77,347
Roofing			28,507
Interior Construction			18,319
Interior Finishes			7,866
Plumbing			20,500
HVAC			24,500
Electrical			46,100
Selective Demolition, Hazardous Components Abatement			9,250
Subtotal			267,548
General Conditions	7-12%	9%	24,079
Subtotal			291,627
Contingency	15%	15%	43,744

Subtotal				335,371
Escalation	2-6%	2.5%		8,384
Total Estimated Construction Hard Cost				343,756

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	27,500	
Other Fees		l.s.	10,000	
FF&E		l.s.	2,000	
Project Management	5%	5%	17,188	
Contingency	10%	10%	34,376	
Total Estimated Project Soft Cost				91,064
Total Estimated Project Cost				\$434,820

PROJECT: PW-13-21

DEPARTMENT PRIORITY: 21 of 36

Project Working Title: BURGESS BARN IMPROVEMENTS
Project Location: 559 Route 149, West Barnstable

Project Description: This project would fund needed stabilization of the building structure and access improvements to the Burgess Barn. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: Erected in 1823 the building is in a state of disrepair and in danger of being lost. It has been patched and repaired, but heavier renovations are now necessary. It is the Towns desire to renovate and better utilize this structure.

Work Accomplished Prior Project: Minor maintenance to the building has been conducted by the Marstons Mills Village Association. A Historic building study was completed for this building under CPC funding. The cost estimates are based on that study.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$99,356

Project Estimated Completion Date: April 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$99,356	Design & Permitting
2014	\$379,810	Burgess Barn Improvements

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis

Hard Costs

Construction

	range	actual	
Site Improvements			4,800
Superstructure, Exterior Walls, Windows, Doors			73,427
Roofing			53,004
Interior Construction			10,988
Interior Finishes			9,140
Plumbing			15,000
HVAC			90,000
Electrical			13,136
Selective Demolition, Hazardous Components Abatement			16,800
Subtotal			286,295
General Conditions	7-12%	12%	34,355
Subtotal			320,650
Contingency	15%	15%	48,098
Subtotal			368,748
Escalation	2-6%	3.0%	11,062
Total Estimated Construction Hard Cost			379,810

Soft Costs

Design

	range	actual	
Design Fees	6-10%	8%	30,385
Other Fees		I.s.	10,000
FF&E		I.s.	2,000
Project Management	5%	5%	18,991
Contingency	10%	10%	37,981
Total Estimated Project Soft Cost			99,356
Total Estimated Project Cost			479,167



PROJECT: PW-13-22

DEPARTMENT PRIORITY: 22 of 36

Project Working Title: GUYER BARN IMPROVEMENTS

Project Location: 250 South Street, Hyannis

Project Description: This project would fund needed plumbing, electrical, HVAC, and interior improvements to the historic barn. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: As part of the continuing arts program in the Town of Barnstable, the Guyer Barn is utilized for artists studios and gallery space. The building is currently seasonal in use. The Town would like to extend the buildings usefulness by upgrading mechanical systems and insulating the building. As part of the project a exterior display area is proposed.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$36,022 Construction: \$ 104,444

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 140,466.	Design & Construct Guyer Barn Improvements

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Sq. Ft. Area			1,887	
Cost/ Sq. Ft.			100	188,700

Hard Costs

Construction

	range	actual		
Site Improvements / ADA Accessibility				15,000
Insulation, Exterior Doors				25,000
Interior Construction				5,000
Interior Finishes				10,000
Plumbing				8,000
HVAC				10,000
Electrical				5,000
Selective Demolition				1,500
Subtotal				79,500
General Conditions	7-12%	12%		9,540
Subtotal				89,040
Contingency	15%	15%		13,356
Subtotal				102,396
Escalation	2-6%	2.0%		2,048
Total Estimated Construction Hard Cost				104,444

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	8,356	
Other Fees		I.s.	10,000	
FF&E		I.s.	2,000	
Project Management	5%	5%	5,222	
Contingency	10%	10%	10,444	
Total Estimated Project Soft Cost			36,022	

Total Estimated Project Cost				140,466
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PROJECT: PW-13-23

DEPARTMENT PRIORITY: 23 of 36

Project Working Title: OLD JAIL REPAIRS
Project Location: 3365 Main Street, Route 6A, Barnstable

Project Description: This project would fund needed exterior and site improvements to the building. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: Originally constructed in 1690, the building has been moved, patched, repaired and painted but additional renovations are now necessary.

Work Accomplished Prior Project: A Historic building study was completed for this building under CPC funding. The cost estimates are based on that study.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$35,031

Project Estimated Completion Date: April 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$35,031	Design & Permitting
2014	\$136,062	Old Jail Repairs

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

CIP Project Cost Analysis:

Hard Costs

Construction

	range	actual		
Site Improvements				10,380
Superstructure				3,420
Exterior Enclosure - Walls, Windows, Doors				42,529
Interior Construction				1,400
HVAC				25,000
Electrical				21,504
Selective Demolition				4,000
Subtotal				108,233
General Conditions	7-12%	9%		9,741
Subtotal				117,974
Contingency	15%	15%		17,696
Subtotal				135,670
Escalation	2-6%	2.5%		3,392
Total Estimated Construction Hard Cost				139,062

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	11,125	
Other Fees		l.s.	10,000	
FF&E		l.s.	0	
Project Management	5%	5%	6,953	
Contingency	5%	5%	6,953	
Total Estimated Project Soft Cost			35,031	
Total Estimated Project Cost				174,093



Old Jail

PROJECT: PW-13-24

DEPARTMENT PRIORITY: 24 of 36

Project Working Title: TRAYSER CARRIAGE HOUSE REPAIRS

Project Location: 3353 Main Street, Route 6A, Barnstable

Project Description: This project would fund needed exterior masonry & fenestration repairs of the building. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: Erected in 1856 the building has been patched, repaired and painted but heavier renovations are now necessary. Masonry and exterior deterioration continues to allow moisture penetration into the structure, furthering deterioration.

Work Accomplished Prior Project: A Historic building study was completed for this building under CPC funding. The cost estimates are based on that study.

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to their deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$ 51,616

Project Estimated Completion Date: April, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$51,616	Design & Permitting
2014	\$138,720	Trayser Carriage House Repairs

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Hard Costs

Construction

	range	actual	
Superstructure			980
Exterior Enclosure - Walls, Windows, Doors			63,870
Roofing			8,660
Interior Construction			700
HVAC			8,500
Electrical			17,380
Selective Demolition			5,500
Subtotal			105,590
General Conditions	7-12%	12%	12,671
Subtotal			118,261
Contingency	15%	15%	17,739
Subtotal			136,000
Escalation	2-6%	2.0%	2,720
Total Estimated Construction Hard Cost			138,720

Soft Costs

Design

	range	actual	
Design Fees	6-10%	10%	13,872
Other Fees		l.s.	10,000
FF&E		l.s.	0
Project Management	5%	5%	6,936
Contingency	5%	15%	20,808
Total Estimated Project Soft Cost			51,616
Total Estimated Project Cost			\$ 190,336



Carriage House

PROJECT: PW-13-17

DEPARTMENT PRIORITY: 17 of 36

Project Working Title: 50 PEARL STREET IMPROVEMENTS
Project Location: 50 Pearl Street, Hyannis

Project Description: This project would fund needed exterior and interior improvements to the main building and accessory structures. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: As part of the continuing arts program in the Town of Barnstable, the buildings are utilized for artists studios and gallery spaces. As income producing properties for the town, exterior and interior improvements are required. An accessory building is currently utilized as a pottery barn. Necessary improvements to this structure are included.

Work Accomplished Prior Project: Property acquired with part of the following CPA Funds: \$115,000 – Housing, 375,000 Historic, \$260,000 Community Development block Grant

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$31,316 Construction: \$ 83,985

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 115,301	50 Pearl Street Improvements

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Hard Costs

Construction

	range	actual	
New Asphalt Roof			20,000
Window Restoration, Painting, Glazing			15,000
Exterior Trim			10,000
Basement Moisture Resolution			5,000
Electric Modifications			3,000
Pottery Shed Roof & Gutter Repair			4,000
Pottery Shed Water Service , Heat, Plumbing			10,000
Subtotal			67,000
General Conditions	7-12%	9%	6,030
Subtotal			73,030
Contingency	15%	15%	10,955
Subtotal			83,985
Escalation	2-6%	0%	0
Total Estimated Construction Hard Cost			83,985

Soft Costs

Design

	range	actual	
Design Fees	6-10%	8%	6,719
Other Fees		l.s.	10,000
FF&E		l.s.	2,000
Project Management	5%	5%	4,199

Contingency	5%	10%	8,398	
Total Estimated Project Soft Cost			31,316	
Total Estimated Project Cost				115,301



50 Pearl Street Hyannis

PROJECT: PW-13-26	DEPARTMENT PRIORITY: 26 of 36
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Project Working Title: 46 PEARL STREET IMPROVEMENTS
Project Location: 46 Pearl Street, Hyannis

Project Description: This project would fund needed exterior and interior improvements to the main building and accessory structures. These funds would provide for design and renovation/construction as identified hereinafter:

Project Justification: As part of the continuing arts program in the Town of Barnstable, the building is utilized for artists studios and gallery spaces and artist housing. As an income producing property for the town, exterior and interior improvements are required.

Work Accomplished Prior Project: Property acquired with part of the following CPA Funds: \$115,000 – Housing, 375,000 Historic, \$260,000 Community Development block Grant

Impact of Denial/Postponement: Continued deferred maintenance of this facility will contribute to its deterioration and demand a total and costly replacement.

Project Cost Estimates: Design & Permitting: \$ 22,379 Construction: \$ 45,126.00

Project Estimated Completion Date: Fall, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 67,505	46 Pearl Street Improvements

Source of Funding: General Fund

Operating Budget Impact: With new construction technology, we will realize continued savings in energy and maintenance costs.

Project Cost Analysis:

Hard Costs

Construction

	range	actual		
Spot Repair Existing Roof Singles				2,500
Limited Exterior Trim Replacement				8,000
Point Chimney				4,000
Basement Moisture Resolution				2,500
Electric Modifications				5,000
Plumbing Issues				4,000
Heating System Upgrade				10,000
Subtotal				36,000
General Conditions	7-12%	9%		3,240
Subtotal				39,240
Contingency	15%	15%		5,886
Subtotal				45,126
Escalation	2-6%	0%		0
Total Estimated Construction Hard Cost				45,126

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	3,610	
Other Fees		l.s.	10,000	
FF&E		l.s.	2,000	
Project Management	5%	5%	2,256	
Contingency	5%	10%	4,513	
Total Estimated Project Soft Cost			22,379	

Total Estimated Project Cost

67,505



PROJECT: PW-13-27

DEPARTMENT PRIORITY: 27 of 36

Project Working Title: GUARDRAILS

Project Location: Town-wide

Project Description: Removal and installation of damaged and deteriorated guardrails; and installation at new locations in various villages to insure the safety of the driving public.

Project Justification: There has been deferred maintenance and neglect in the past with regard to guardrail maintenance and minimum safety requirements. In many locations Town-wide, the situation

has become more serious and more dangerous with regard to public safety. The replacement of damaged guardrail by the insurance company of individuals who have accidents and damaged Town property is somewhat limited to reported accidents and availability of adequate insurance coverage. Planned locations for installation in FY2013 include varying amounts of guardrail in the following locations: Ocean and Hyannis Avenues, Hyannis; Iyannough and Washington Avenues, Hyannisport; Main and Pine Streets, and Shootflying Hill Road, Centerville; Main Street, Old Mill and Bumps River Road, Osterville; and River Road, Marstons Mills.

Impact of Denial/Postponement: Without a Town-wide effort to replace damaged and deteriorated guardrail, public safety will be compromised, and the Town may be subject to legal action if an accident occurs because of the lack of appropriate safety barriers.

Project Cost Estimates: Design: \$7,000 Construction: \$290,000 (1mile@\$55 per lf)

Project Estimated Completion Date: June 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 297,000	Design and Construction
2014	\$ 100,000	Design and Construction
2015	\$ 100,000	Design and Construction
2016	\$ 100,000	Design and Construction
2017	\$ 100,000	Design and Construction

Source of Funding: General Fund and Individual insurance when available and properly identified.

Operating Budget Impact: None

PROJECT: PW-13-28	DEPARTMENT PRIORITY: 28 of 36
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Project Working Title: HANDICAPPED PIER EXPANSION
Project Location: Dowses Beach, Osterville

Project Description: Addition of approximately 40 feet to the existing handicapped fishing pier at Dowses Beach.

Project Justification: The Town’s only handicapped accessible fishing pier has been very successful and has attracted many people, both handicapped and non-handicapped. This expansion will allow it to serve even more members of the community.

Impact of Denial/Postponement: Handicapped citizens will not be able to find room on the existing pier to be able to fish.

Project Cost Estimates: Design: \$35,000

Project Estimated Completion Date: September 2013 (design and permitting)

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 35,000	Design and permitting
2014	\$ 0	

2015

\$ 210,000

Construction

Source of Funding: General Fund, funds from the Disabilities Commission and possibly CDBG grant funds

PROJECT: PW-13-29 **DEPARTMENT PRIORITY: 29 of 36**

Project Working Title: BARNSTABLE POLICE FACILITY SEWER CONNECTION

Project Location: Barnstable Police Station, Phinney’s Lane, Hyannis

Project Description: Connect the Police Station to the Town’s sewer collection system. This requires the installation of a duplex pumping station and directional drilling to install a force main under Lyannough Road (Route 132) to the nearest gravity sewer. In addition, the project includes the removal of an existing oil/water separator (MDC trap).

Project Justification: The present onsite septic system that serves the facility has reached its life expectancy and should be replaced in the next several years. Present environmental regulations do not allow water from vehicle washing operations to be discharged to a septic system. If the septic system was to be replaced in kind, the BPD would have to install an additional tight tank for the wash water and pay to have it pumped regularly by a licensed hauler. By connecting the facility to the town sewer system, the need to replace the septic system is eliminated and the vehicle wash operations can continue without the need of a tight tank. The oil/water separator (MDC trap) that will be removed has out lived its useful life and needs to be removed

Work Accomplished Prior Project: Design is completed.

Impact of Denial/Postponement: The onsite septic system will have to be replaced. There will have to be a tight tank installed and pumped regularly or the Department will have to pay to have its vehicles washed elsewhere. The oil/water separator (MDC trap) will still have to be removed and disposed of.

Project Cost Estimates: Construction: \$200,000 (FY 2014)

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$200,000	Sewer connection installation; MDC trap removal

Source of Funding: General Fund

Operating Budget Impact: (

Expenses: Recurring utility cost increases for electricity and sewer fees.

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2013		\$	\$	\$0	\$0
2014		\$	\$	\$2,000	\$2,000
2015		\$	\$	\$1,000	\$1,000
2016		\$	\$	\$1,000	\$1,000
2017		\$	\$	\$1,000	\$1,000

Project Working Title: MAIN STREET, HYANNIS - ROAD IMPROVEMENTS
Project Location: Main Street, Hyannis

Project Description: This project is the reconstruction of two sections of Main Street, Hyannis that require improvements but are not presently included in approved capital improvement projects.

Project Justification: The Town has completed reconstruction of Park Square and has completed work on the portion of Main Street from Center Street to Sherman Square. The section of Main Street to be addressed in FY2013 is located between Center Street and the completed Park Square project. This would complete the Main Street upgrade east of the downtown Main Street rejuvenation project, leaving only the west end of Main Street from Sherman Square to the West End Rotary as a future year phase of the project.

Impact of Denial/Postponement: Traffic and pedestrian circulation will be negatively impacted.

Project Cost Estimates: See below

Project Estimated Completion Date: FY 2015

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$ 700,000	Design/Construct - Center Street to Park Square
2015	\$1,242,000	Construct - Sherman Square to West End Rotary

Source of Funding: General Fund

Operating Budget Impact: Reduction in emergency repairs

Project Working Title: PARKER’S POND DREDGING
Project Location: East Bay Road, Osterville

Project Description: Dredging 12,500 cubic yards of sediment and accumulated organics from Parker’s Pond.

Project Justification: For many years, road runoff has carried with it materials that have filled in and degraded the pond. The pond is now a source of bacteria which wash downstream during storm events, entering the shell fish beds around East Bay. Costs were estimated and predicated upon a favorable decision for disposal of dredge spoils on local land trust property abutting the pond. Costs and assumptions need to be revisited in FY2013.

Work Accomplished Prior Project: New Storm drain system installed in Main Street Osterville adjacent to pond and dredging feasibility study.

Impact of Denial/Postponement: Siltation and deterioration of water quality in Parker’s Pond and down gradient water bodies, and periodic closing of East Bay shellfish beds.

Project Cost Estimates: See below

Project Estimated Completion Date: FY 2015

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$40,000	Permitting
2015	\$1,300,000	Dredging

Source of Funding: General Fund

Operating Budget Impact: None

PROJECT: PW-13-32	DEPARTMENT PRIORITY: 32 of 36
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Project Working Title: ROUTE 132 CORRIDOR (TOWN SECTION)
Project Location: Hyannis, from Bearse’s Way to Route 28 Rotary

Project Description: Design and reconstruct approximately 6,500 linear feet of the town section of Route 132 as a four lane roadway with landscaped esplanade and/or physical separator with dedicated left turn lanes at signalized intersections. Provide for sidewalk/pedestrian facilities through easements. Limit private property curb cuts. The goal is to continue the landscaped parkway theme from the State section of Route 132 (currently awaiting construction) to the Town section (from Bearse’s Way to the Rotary), coordinate corridor design and access issues, improve roadway level-of-service (LOS) and improve community character by improved streetscape design.

Project Justification: The Barnstable LCP and the recommendations of the Barnstable/Yarmouth Transfer Station (BYTS) call for an expanded Route 132 through the development of a landscaped parkway with two full lanes of travel in each direction. Control of turning movements is critical to capacity (LOS) for the eventual build out of this regional commercial center. The State section of the roadway will be completed in FY2010. This project is intended to coordinate with the design of the State section; should be coordinated with the Regional Policy Plan; and with the Town’s Growth Management Department in FY2013. Initial cost estimates should also be revisited in FY2014.

Impact of Denial/Postponement: Incomplete roadway design upgrades to the Route 132 corridor, inability to adequately review projects proposed for the Route 132 corridor, loss of community character improvements, decreasing LOS and limitations of commercial development potential. Non-implementation of LCP capital projects could restrict projects that have a positive effect on the tax base.

Project Cost Estimates: See below

Project Estimated Completion Date: FY 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$500,000	Design coordinated with State section
2015	\$5,000,000	Construction

Source of Funding: Combinations of General Fund, Impact fees/private sector contribution, possible BID, place program on TIP after design complete, PWED grant, mitigation funds.

Operating Budget Impact: None identified at this time

PROJECT: PW-13-33	DEPARTMENT PRIORITY: 33 of 36
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Project Working Title: COASTAL DISCHARGE MITIGATION (INCLUDING NUTRIENT REMOVAL)
Project Location: Old Post Road, Cotuit, Bumps River Road, Osterville, Ocean View Avenue, Cotuit, and Millway, Barnstable

Project Description: This is an on-going program to improve coastal water quality by addressing road runoff and road related water quality problems affecting coastal waters.

Project Justification: Storm water runoff into coastal waters has been documented to adversely effect water quality of the receiving water to the point that bathing beaches and shellfish beds are vulnerable to closure by Board of Health and/or State regulatory authorities. The Town is subject to EPA TMDL and State Wetland regulations that require the removal of pollutants from storm water before discharge to water resources.

Work Accomplished Prior Project: Design work for Cordwood Landing was completed in 2009; and construction funding is needed to complete project. Projects previously completed under this program include road runoff and road related water quality improvements at: Bridge Street in Osterville; Main Street in Cotuit; Bay Shore Road in Hyannis; Old Post Road, Cotuit; Bumps River Road, Osterville; Ocean View Avenue, Cotuit; culvert replacement at Dowse’s Beach; etc.

Impact of Denial/Postponement: Bathing beaches and shellfish beds may close. Coastal water quality will be adversely affected by contamination from storm water runoff. Property values may decrease with a corresponding decline in tax revenues. Town faces possible fines under the NDPEs Phase II Stormwater Permitting Program.

Project Cost Estimates: Design: \$20,000 Construction: \$230,000

Project Estimated Completion Date: August 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$250,000	Coastal Discharge Mitigation Improvements
2015	\$250,000	Coastal Discharge Mitigation Improvements
2016	\$250,000	Coastal Discharge Mitigation Improvements
2017	\$250,000	Coastal Discharge Mitigation Improvements

Source of Funding: General Fund Possible 319 Grants (DEP) and/or CPR Grants (CZM)

Operating Budget Impact:

<u>FY</u>	<u>No. Positions</u>	<u>Salary Costs</u>	<u>Benefits</u>	<u>Expenses</u>	<u>Total</u>
2013	0	\$0	\$0	\$1,000	\$1,000
2014	0	\$0	\$0	\$1,000	\$1,000
2015	0	\$0	\$0	\$1,000	\$1,000
2016	0	\$0	\$0	\$1,000	\$1,000
2017	0	\$0	\$0	\$1,000	\$1,000

Highway Division will incur the extra operating expense for cleaning additional drainage systems annually.

PROJECT: PW-13-34	DEPARTMENT PRIORITY: 34 of 36
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Project Working Title: PRIVATE ROADS - ACCEPTANCE AND TAKING
Project Location: Sections of Mary Dunn Road, Barnstable Village; Old Strawberry Hill Road, Centerville; and Wakeby Road, Marstons Mills

Project Description: Certain roadways in Town have been identified by the Town Council Roads Sub-Committee as important high volume collector roads which include part public and part private mixed use sections, and some private roads, as in the case of Wakeby Road. In order to properly identify, improve and maintain these roads it is necessary to start the process in Phase I by authorizing acceptance of the roads by the process of Layout and Taking by easement. This involves survey work to establish the Layout, preparation of plans for recording and legal work involving negotiation and settlement with abutters for easement rights over the private portions of the roads. Phase II will be a multi-year phased number of projects, based upon Town priority, staff workload, roadway condition and length of the proposed road work, each with separate engineering and construction estimated costs.

Project Justification: When these roadways are taken by the Town, safety and maintenance would be assured; public expectations for repair and maintenance would be affirmed; and it will allow consistent budgetary, maintenance, and improvement functions to be performed. Currently, minimal Town funds and no State funds are available for private road upkeep. This results in degradation of the private road sections of important roads, causing frustrations for users and inefficient design and planning options. The first step in bringing these collector roads up to a reasonable standard is the Layout and Taking; so this should be achieved soon as possible to retard the continued degradation of these assets.

Project Cost Estimates: Design \$ 250,000

Project Estimated Completion Date: Spring, 2013 Layout & Taking

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 250,000	Layout and Taking of Certain Roads
2014	\$1,206,000	Design & Construction – Mary Dunn Road
2015	\$1,024,000	Design & Construction – Wakeby Road
2016	\$1,770,000	Design & Construction – Old Strawberry Hill Rd

Source of Funding: General Fund

Operating Budget Impact;

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2011		\$	\$	\$	\$0
2012		\$	\$	\$	\$0
2013		\$	\$	\$ 5,700	\$ 5,700
2014		\$	\$	\$17,100	\$17,100
2015		\$	\$	\$22,800	\$22,800

Estimate for increased roadway operating budget maintenance costs, based upon Transportation Research Board national recommendation of \$5,700 per lane mile for optimum level of maintenance.

PROJECT: PW-13-35	DEPARTMENT PRIORITY: 35 of 36
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Project Working Title: PRIVATE ROAD DRAINAGE REPAIR
Project Location: Stub Toe Road

Project Description: Design and Construction of Storm water systems

Project Justification: Residents in the vicinity of # 57 Stub Toe Road, a Private Road, have experienced severe property damage, caused by flooding. The roadway drainage systems are inadequate and the adjacent property owners have been forced to spend money on mitigation efforts on their property. Provision of new drainage systems will prevent the property damage and provide safe travel on the road. If the flooding is not addressed the property owners will continue to experience property damage including erosion of yard area and flooding of basements. Road users will be adversely affected by the flooded roadway.

Project Cost Estimates: Construction: \$47,334

Project Estimated Completion Date: May 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$47,334	

Source of Funding: General Fund

Operating Budget Impact: Elimination of emergency pumping

Supplemental Information:

Cost Estimates:

Item No.	Qty.	Unit	Description	Unit Price	Amount
120.1	60	CY	Unclassified Excavation	\$25.00	\$1,500.00
141.1		CY	Test Pit For Exploration	\$50.00	\$0.00
146	2	EA	Drainage Structure Removed	\$500.00	\$1,000.00
170	175	SY	Fine Grading And Compacting	\$2.00	\$350.00
201		EA	4 Foot Diameter Catch Basin	\$2,000.00	\$0.00
201.1		EA	Block Catch Basin / Manhole	\$2,000.00	\$0.00
201.3	2	EA	4 Foot Diameter Double Open Catch Basin	\$2,200.00	\$4,400.00
202		EA	Precast 1000 Gallon Catch Basin	\$2,000.00	\$0.00
204		EA	Gutter Inlet	\$1,000.00	\$0.00
205	6	EA	Precast 1000 Gallon Leaching Basin	\$3,000.00	\$18,000.00
205.1		EA	Precast 600 Gallon Leaching Basin	\$2,500.00	\$0.00
205.12		LF	12 Inch HDPE Slotted Leach Trench (2ft X 4ft)	\$100.00	\$0.00
205.4		EA	Precast Leach Galley	\$2,000.00	\$0.00

205.5		EA	6' x 3' Precast Leaching Chamber	\$1,200.00	\$0.00
221.4		EA	4 Inch Frame And Cover - 1" vent hole	\$450.00	\$0.00
221.8	3	EA	8 Inch Frame And Cover - 1" vent hole	\$500.00	\$1,500.00
222.4		EA	4 Inch Frame And Grate	\$450.00	\$0.00
222.8		EA	8 Inch Frame And Grate	\$500.00	\$0.00
222.28	2	EA	8 Inch Double Frame And Grate	\$900.00	\$1,800.00
223.1		EA	Frame And Grate (Or Cover) Removed and Reset	\$300.00	\$0.00
240.8		LF	8 Inch Ductile Iron Pipe Class 52	\$65.00	\$0.00
240.12		LF	12 Inch Ductile Iron Pipe Class 52	\$80.00	\$0.00
242.12	60	LF	12 Inch HDPE Plastic Pipe	\$35.00	\$2,100.00
252	1	EA	Catch Basin Elbow Trap	\$300.00	\$300.00
402	60	TON	Dense Graded Crushed Stone For Sub-Base	\$28.00	\$1,680.00
464		GAL	Bitumen For Tack Coat	\$10.00	\$0.00
472	40	TON	Bituminous Concrete For Miscellaneous Work	\$150.00	\$6,000.00
472.1		TON	Temporary Cold Patch	\$60.00	\$0.00
482.3	60	LF	Sawing Bituminous Concrete	\$4.00	\$240.00
697		LF	Sedimentation Fence w/ Haybales	\$10.00	\$0.00
751	10	CY	Loam Borrow	\$35.00	\$350.00
765	75	SY	Seeding	\$3.00	\$225.00
852		SF	Safety Signing For Construction Operations	\$14.00	\$0.00
859		DD	Reflectorized Drum	\$0.50	\$0.00
				Estimate SubTotal:	\$39,445.00
				10% Contingency:	\$3,944.50
				Admin. 5%	\$1972.25
				Police 5%	\$1972.25
				Total Cost	\$47,334.00

PROJECT: PW-13-36 **DEPARTMENT PRIORITY: 36 of 36**

Project Working Title: PRIVATE ROAD DRAINAGE REPAIR
Project Location: 70 Homeport Drive, Centerville

Project Description: Specific Drainage work to replace failed system installed as a part of a past Betterment Project

Project Justification: In xxxx homeowners living on Homeport Drive, a Private Road contributed to drainage work . at one particular location a drainage system that was constructed as part of the betterment in xxxx has failed. The result of the drainage system failure has been property damage at #70, an inconvenience for the owner with prolonged ponding in the street and a safety hazard in winter when the puddle freezes.

Impact of Denial/Postponement: The existing detrimental conditions will continue and property damage claims will be submitted to the town. In addition an unsafe roadway will be in place.

Project Cost Estimates: Construction: \$37,026

Project Estimated Completion Date: October 15, 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$37,026	

Source of Funding: General Fund

Operating Budget Impact: Elimination of claims.

Detailed Cost estimate for proposed work:

ITEM NO	QUANTITY	DESCRIPTION	UNIT PRICE	TOTAL PRICE
201	3 Each	Catch Basin	\$2750	\$8,250
205	3 Each	Leaching Basin	\$3,700	\$11,100
220	2 Each	Adjust Exist Structure	\$500	\$1,000
238.12	80 LF	12"Ductile Iron Pipe	\$55	\$4,400
472	65 Ton	Asphalt for Repair	\$90	\$5,850
			SUB TOT	\$30,600
			10% CONT.	\$3,060
			SUB TOTAL	\$33,660
			10%Cont.	\$3,366
			Admin. 5%	\$1,683
			Police 5%	\$1,683
			TOTAL COST	\$37,026

5. REGULATORY SERVICES

PROJECT: REG-13-1

DEPARTMENT PRIORITY: 1 of 4

Project Working Title: **HYDRILLA CONTROL**

Project Location: Long Pond, Centerville and Mystic Lake, Marstons Mills

Project Description: 11th year of controlling invasive hydrilla at Long Pond. Hydrilla is capable of causing devastating impact to freshwater ponds, due to its rapid growth rate. It can spread from pond to pond. The Town and MA DCR are partnering on this control project to help Long Pond and to reduce the chance of hydrilla spreading to other ponds in Barnstable. As a result, hydrilla has been drastically reduced in Long Pond. A small-scale hydrilla infestation was discovered in Mystic Lake in 2010. With MA DCR and Indian Ponds Assoc. assistance, the plants have been hand-pulled and the areas covered in opaque plastic screens. More extensive hand pulling by divers will be required again in FY2013.

Project Justification: Our efforts have resulted in drastic decline of hydrilla in Long Pond and Mystic Lake, and have discouraged its spread to other ponds.

Work Previously Accomplished this Project: Efforts to date have resulted in drastic decline of hydrilla in Long Pond and have discouraged its spread to other ponds.

Impact Of Denial/Postponement: Take-over of Long Pond and other Town lakes & ponds by hydrilla, and a much greater cost of control.

Project Cost Estimates: Construction \$ 60,000 for 2 years

Project Estimated Completion Date: Dec 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 30,000	Sonar treatment in Long Pond; Hand pulling in Mystic
2014	\$ 30,000	Sonar treatment in Long Pond; Hand pulling in Mystic

Source of Funding: General Fund and Grants or MA DCR participation as may be available. MA DCR-Lakes Program has contributed \$60,000 (not including in-kind contributions) since 2002.

Operating Budget Impact: None

PROJECT: REG-13-2

DEPARTMENT PRIORITY: 2 of 4

Project Working Title: **LOVELL'S POND DIAGNOSTIC-FEASIBILITY STUDY**

Project Location: Lovell's Pond, Santuit Newtown Rd., Cotuit

Project Description: Analysis of pond nutrient balance post-aeration. The aeration system installed in 2010 has provided superb oxygen levels and mixing within the pond. However, severe blue-green algae blooms have persisted, resulting in closures of the swimming beach. This project will provide a better understanding of the water quality issues at Lovell's, and methods that can be implemented in concert with, or instead of aeration (for example, alum injection) to prevent severe algae blooms.

Impact off Denial/Postponement: Severe algae blooms and beach closures will persist.

Project Cost Estimates: Design \$ 50,000

Project Estimated Completion Date:

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 50,000	Diagnostic-feasibility study (\$35,000); O&M of aeration system required during study (\$15,000)

Source of Funding: General Fund

PROJECT: REG-13-3

DEPARTMENT PRIORITY: 3 of 4

Project Working Title: **SNOW'S CREEK RESTORATION**

Project Location: Ocean St., Hyannis

Project Description: Design and permitting of culvert replacement and mouth-of-creek dredging to enhance tidal flow to Snow's Cr. estuary.

Project Justification: Snow's Creek water quality continues to be poor, years after the Area 5 sewer construction in 1990. Correcting the restrictions to flow at the culvert and at the mouth hold the best chance of improving the estuary's health for the long run.

<u>Hard Costs</u>		Model		<u>Construction</u>
	Sq. Ft. Area			
	Cost/Sq. Ft.			
	Building Estimated Construction Cost			\$0
	Site Improvement Costs - Phase I			\$110,000
	Total Estimated Construction Cost			\$110,000
<u>Soft Costs</u>		range	actual	<u>Design</u>
	Design Fees	6-10 %	8%	\$ 5,000
	Other Fees (acoustical,water,Pb)			\$ 35,000
	FF&E		l.s	\$8,000
	Project Management	5%		\$ 5,500
	Contingency	15%	\$16,500	\$ 5,500
	Project Subtotal			\$ 51,000
	Escalation	12%	10%	\$11,000
	Project Cost			\$ 51,000
	Total Project Cost		\$196,500	\$145,500



Pistol range in 2009, prior to flood-proofing

6. SCHOOLS

PROJECT: SCH-13-1

DEPARTMENT PRIORITY: 1 of 25

Project Working Title: BATHROOM STALL REPLACEMENT
Project Location: BIS, Centerville, Hyannis West, BWB, BCHMCPS

Project Description: This project will allow us to replace rusted, skewed, and non conforming bathroom stall partitions at the above schools

Project Justification: The bathrooms in all of our schools, especially the elementary schools are ORIGINAL to the building. BIS was installed during the renovation 20 years ago. These stalls have served us well, but the time is now to replace them. In the elementary schools, the stall partitions have

permeate the surface and wash out the base. As this happens year round, the water infiltrates and in the winter freezes and the surface cracks and becomes a safety hazard for tripping and falling. At this point, the courts can be resurfaced and sealed for a modest sum of money versus a rebuild. Maintaining what we have is far less expensive than having to design and rebuild!

Project Cost Estimates: Design \$5,500.00 Construction \$ 50,000.00

Project Estimated Completion Date: August 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$50,500.00	Repair and resurface both tennis courts as above.

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information:

Repair cracks and resurface BHS tennis court	\$50,000
Design	\$ 5,500
Total	\$55,500

PROJECT: SCH-13-3

DEPARTMENT PRIORITY: 3 of 25

Project Working Title: ELECTRICAL UPGRADES TO SCHOOL FACILITIES

Project Location: Various Schools District Wide

Project Description: This project will let us upgrade electrical panels, service and maintain safety in our school buildings

Project Justification: Technology has grown many-fold since our schools were built. Once a 200 amp panel was sufficient. Now with computers, audio-visual equipment, food preparation equipment and building systems, our electrical service is not adequate. Several schools have electrical panels that no longer carry the UL listing since they are deemed unsafe and have been suspect in causing fires. Numerous classrooms have ONE or TWO receptacles for power. Circuit breakers have been “piggy backed” for lack of space in panels. The Maintenance Department cannot operate a saw and vacuum at the same time as we will trip circuit breakers. Our yearly fire inspections note continuously that we have power strips and extension cords unsafely running across the floors. To maintain the safety of the occupants of the buildings, we need to provide adequate service that will not overload and trip out, and rid our schools of dangerous power strips and trip hazard cords.

Work Accomplished Prior Project: Outdated and unrated service subpanels at Centerville have been replaced and switch gear slated for replacement Summer 2012.

Project Cost Estimates: Construction \$ 55,000.00

Project Estimated Completion Date: January 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$55,000.00	Electrical upgrades at all schools as needed.

Source of Funding: General Fund

Operating Budget Impact: By funding this project, we will eliminate electrician calls and also gain the respect of the Barnstable Fire Departments

PROJECT: SCH-13-4 **DEPARTMENT PRIORITY: 4 of 25**

Project Working Title: INTERIOR PAINTING
Project Location: All schools within the district

Project Description: This project will address the interior painting of our schools.

Project Justification: In the past years, interior painting has been done sporadically, usually when renovations have made it necessary. We are now working on having the interior of BHS painted. It has not been done since the 1999 remodel, and some areas in over 20 years! The fresh look has done wonders. Most of our buildings have not seen fresh paint in over 20 years! This project will address sprucing up the buildings over a five year period and be used as need directs at all buildings.

Project Cost Estimates: Construction \$ 50,000.00

Project Estimated Completion Date: FY 2013 Portions of BHS & BIS

.Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$50,000.00	Continue painting portions of BHS & BIS
2014	\$65,000.00	Paint interior portions of various elementary schools
2015	\$65,000.00	Paint interior of BWB
2016	\$65,000.00	Paint selected interior West Villages and BHMCS 4/5

Source of Funding: General Fund

Operating Budget: The dollar savings will come from being able to maintain freshly painted surfaces rather than repairing and patching the same.

Supplemental Information:

2013: Paint interior portions of BHS, offices and hallways in need & areas of BIS	\$50,000
2014: Paint interior portions of elementary schools	\$65,000
2015: Paint interior of BWB Elementary School	\$65,000
2016: Paint selected areas of West Villages and BHMCS 4/5	\$65,000

PROJECT: SCH-13-5 **DEPARTMENT PRIORITY: 5 of 25**

Project Working Title: BCHMCPS Upgrades and Repairs
Project Location: 165 Bearse's Way, Hyannis, MA

Project Description: This project will address the rotted trim and facia boards, gutters, new down spouts and masonry repairs

2013

\$105,000

Renewal/replacement stage rigging & stage decking

Source of Funding: General Fund

Operating Budget Impact: None

PROJECT: SCH-13-7

DEPARTMENT PRIORITY: 7 of 25

Project Working Title: FLOORING REPLACEMENT AT HMCS 4/5

Project Location: 730 Osterville/West Barnstable RD

Project Description: This project will fund replacement of the lifted and worn out carpet and the replacement of the worn out and lifting ramp in the hallway.

Project Justification: The Horace Mann 4/5 was built approximately 15 years ago and as was the style of the time, it had carpeting installed. However, through a myriad of construction issues, the school is damp and has moisture issues. Some of the carpeting has been replaced with VCT, but more needs to be replaced. Although VCT is a bit less expensive, it requires a lot of maintenance and also to be stripped and waxed yearly. We have been installing NORA flooring district wide and it is a fine replacement for areas with moisture problems AND is virtually maintenance free! The initial costs are higher, but in the long run, we are getting a lot of value for our dollar. The NORA system also utilizes a moisture mitigation system that will help in preventing the moisture from coming up through the tile spaces. We have utilized this system at BHS and it has been a marked improvement in the areas with moisture concerns.

Impact of Denial/Postponement: By not funding this project, we will continually have to battle a mold problem each summer due to moisture infusion. This will result in us spending \$15,000.000 to \$20,000.00 for professional cleaning in the weeks before school begins.

Project Cost Estimates: Construction \$ 235,000

Project Estimated Completion Date: August 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$235,000	Install NORA flooring in 11 class rooms, ramps and the library

Source of Funding: General Fund

Operating Budget Impact: This project will allow the school system to save approx \$1,600.00 in cleaning supplies, 90 hours of labor and also savings of approx \$15,000.00/year in subcontractor mold cleaning costs.

PROJECT: SCH-13-8

DEPARTMENT PRIORITY: 8 of 25

Project Working Title: VAT AND CARPET REPLACEMENT

Project Location: BWB, BIS and Centerville Elementary School

Project Description: This project will further abate our schools of asbestos floor coverings and replace with durable, low maintenance rubber flooring by NORA Rubber Company.

Project Justification: We have been abating the asbestos (VAT) floor covering in all of our schools. We now have VAT remaining in two buildings, Centerville Elementary and BWB Elementary. Last year, we removed all of the tired carpeting at BWB and permanently covered the VAT with NORA rubber flooring. We also covered the cafeteria Vat at Centerville with the same. This next phase will allow us to remove/permanently cover the Vat on the second floor of Centerville, and the teacher’s lounge/workroom at BWB, and re floor the cafeteria at BWB. The final phase will allow us to remove defective VCT flooring at BIS, seal the concrete, and cover with NORA product. This will involve rooms 120, 121, 124, 125, 133, 134, 137, and the band hallway. By using this product, we will be eliminating the use of stripper and floor finish as this product does not require it. This project will also fund the purchase of newer non chemical floor scrubbers that use only water and ultra sonic movement to clean floors and remove stripper in schools that have serviceable VCT flooring. This will help us avoid nasty slip and fall accidents by custodians, resulting in lost time, and also continue to let Barnstable move forward on its quest to becoming a “greener” community.

Work Accomplished Prior Project: 12 rooms at BWB covered, Centerville cafeteria, and library covered with NORA product.

Impact of Denial/Postponement: By not funding this project, we will continue to have asbestos (VAT) flooring in our schools and we will continue to have slip and fall accidents resulting in lost time from work.

Project Cost Estimates: Construction \$ 235,000

Project Estimated Completion Date: FY 2013

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$235,000	Add'l phase at Centerville & purchase equipment
2014	\$ 85,000	Add'l phase at BWB
2015	\$100,000	Final phase at Centerville
2016	\$100,000	First phase at BIS
2017	\$100,000	Final phase at BIS

Source of Funding: General Fund

Operating Budget Impact: Barnstable will save funds from not having to buy stripper and floor finish and avoid lost time from accidents.

Project Cost Analysis:

2013: Re floor second floor of Centerville	\$175,000
Purchase 10 non chemical floor cleaning machines	<u>\$65,000</u>
	\$235,000
2014: Re floor BWB teacher’s lounge and cafeteria	\$ 85,000
2015: Re Floor remaining VAT classrooms at Centerville	\$100,000
2016: Remove defective flooring at BIS and re cover	\$100,000
2017: Complete project at BIS	\$100,000

Project Working Title: BARNSTABLE EARLY LEARNING CENTER REPAIRS
Project Location: Barnstable High School

Project Description: This project will upgrade the worn hallway floor leading to Barnstable Early Learning Center.

Project Justification: Barnstable High School hosts the Barnstable Early Learning Center (BELC) in a small wing of the building. This program helps infants and toddlers gain a good start on life with human interaction, hot, healthy meals, and stimulating exercise. BELC also provides day care for teachers and the public on a space available basis. Last year, we added long needed security doors to the classrooms and also replaced the tired and tattered carpets with premium NORA flooring. This flooring is unique since it is cleaned with water and neutral cleaner and NEVER needs waxing! We need to complete the project this year by refinishing the hallway floor with NORA. Then this wing will be complete. It will be an asset to this high traffic area and a commitment to the health and well being of the occupants of the area.

Impact of Denial/Postponement: This project is critical to the development of the infants and children who are in need of these vital services. Funding will also allow us to complete and entire area of BHS.

Project Cost Estimates: Construction \$55,000.00

Project Estimated Completion Date: FY 2013

Project Cost/Description FY 2012 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$55,000	Relay flooring in BELC hallway

Source of Funding: General Fund

Operating Budget Impact: None

Project Working Title: PLAYGROUND EQUIPMENT UPGRADE
Project Location: BCHMCPS and Centerville

Project Description: This project will replace the old and out of code play equipment at BCHMCPS and Centerville. These would be replaced under current Mass State Bid contract, which includes design services. Installation will be bid out to professional installers.

Project Justification: As our schools are hitting the half century mark, so are the aging play structures. Since we are a public district, our play areas are utilized by the general public and a multitude of ages visit, are challenged to accomplish, and use these areas. None of the above mentioned structures are ADA compliant, leaving some children not able to partake of these units. Our play structures are over 20 years old and are out of code for safety. They also were made of wood, which is pressure treated with arsenic, and creosote. These structures are havens for bees and yellow jackets and have certainly outlived their useful lives. The spacing of the boards, the dry rot and splintering of the wood are leaving our children with cuts, splinters, and of late broken bones due to the lack of ability finding proper replacement parts, and adequate fall zones. Codes regarding fall zones have increased in size, and ours

are grossly insufficient. These structures need to be replaced with ones that are age specific for elementary schools and also made of non hazardous materials. Replacing these will be a credit to our caring for the children that we serve. Any excess funds will be directed to West Villages Elementary and also the purchase of new basketball hoops for replacement throughout the district. The demolition and disposal of the current equipment will be handled by the Barnstable School Department Maintenance Department.

Impact of Denial/Postponement: By not funding this project, we will risk further injuries to our children and also a lack of space for exercise as the structures fail and parts are not available for replacement.

Project Cost Estimates: Construction \$ 190,000

Project Estimated Completion Date: FY 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$190,000	Replacement of playground equipment

Source of Funding: General Fund

Operating Budget Impact: None

Supplemental Information: As we educate our children mentally, we also need to provide for their physical education and to enhance their social skills, by allowing them to learn to play and act in groups.

PROJECT: SCH-13-11	DEPARTMENT PRIORITY: 11 of 25
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Project Working Title: Athletic Safety Upgrades
Project Location: BHS, BIS, HMCS 4/5

Project Description: This project will provide safe athletic facilities for Barnstable students, those competing from other districts and also the general public. It involves upgrading the facilities at BHS as well as BIS, and HMCS 4/5. This project includes replacing the visitors’ bleachers at BHS and also encompasses the upgrade/repair of the gym bleachers and basket ball backboards at BHS, BIS and HMCS 4/5.

Project Justification: Our 3 schools with interior bleachers in the gymnasiums need a lot of work to make them safe and bring them up to code. At present, they are opened by 2 or 3 custodians pulling on them or by using a floor washing machine as a “locomotive”. This is an accident waiting to happen with either injury to personnel or a broken \$13,000.00 floor scrubbing machine. The bleachers are also over 10 to 15 years old. There are no safety ends on the bleacher seats to keep spectators from falling off the ends and also the spaces between the foot area and the seating area are too widely spaced. This leaves room for a spectator to slip and fall between the rails and be severely hurt and/or mangled. Safety upgrades to these need to be addressed. The basketball backboards at all 3 schools are original and need to be upgraded with newer cables and clamps. Lastly, we have a new turf field at BHS, but are using the same original wooden non compliant bleachers. These need to be updated with ones with back and side rails, and also light enough for us to move from field to field for various sporting events.

Impact of Denial/Postponement: By not funding this project, we will run a grave risk of personal injury lawsuits from not doing our part by keeping up the maintenance, safety, and upgrade of equipment in our buildings.

Project Cost Estimates: Construction \$195,000

Project Estimated Completion Date: FY2013

Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$195,000	Upgrade interior bleachers and basketball backboards and replace visitor bleachers

Source of Funding: General Fund

Budget Impact: None at this time

Project Cost Analysis:

Safety upgrades to all interior bleachers	\$99,000
Replace dangerous visitors bleachers	\$65,000
Replace cables/motors/controls on backboards and service	\$18,000
Contingency:	\$13,000

PROJECT: SCH-13-12

DEPARTMENT PRIORITY: 12 of 25

Project Working Title: SCHOOL KITCHEN EQUIPMENT

Project Location: ALL schools within the district

Project Description: This project will enable us to upgrade and replace old and defective kitchen equipment within the district.

Project Justification: This is an additional phase of a project begun over 2 years ago which was not funded the last two years. We have replaced 3 dishwashers, 12 ovens, refrigeration equipment, and hot storage boxes. The age of all this equipment is beginning to show more and more. Some of the safety lock outs are non-functioning, by passed or non existent. Our repair costs are higher each year trying to make band aid repairs on equipment that in most cases is no longer in production. Some of our schools still have wooden prep tables that are not approved by the Board of Health as they are a breeding ground for bacteria. Most commercial equipment has a life of 20 years IF it is maintained. This project will also fund a comprehensive “tune up” each summer when our kitchens rest.

Work Accomplished Prior Project: Replaced ovens at 4 schools, 12 new hot boxes, food processor, and refrigeration at BCHMCPs

Project Cost Estimates: Construction \$ 75,300

Project Estimated Completion Date: FY 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$75,300	Elementary School upgrades
2014	\$62,500	Small equipment upgrades
2015	\$67,500	Equipment upgrades

Source of Funding: General Fund

Operating Budget Impact: Replacing equipment will lessen repair costs and also save energy as new equipment is more energy efficient.

Project Cost Analysis:

2013: Cooler and Walk In freezer replaced at Centerville	\$20,000
2 new double stacked convection ovens at West Villages	\$15,500
2 cook tops installed at Hyannis West and BCHMCPS	\$17,500
Mixers, food processors, and small hand equipment	\$10,500
Project management, installation, and contingency	\$11,800
Total	\$75,300
2014: Bus trays, stainless steel carts, mixing bowls	\$10,000
2 new walk in freezers installed at BHS	\$32,000
6 new stainless steel work tables	\$12,500
Contingency	\$7,500
Total	\$62,000
2015: Serving line replacement at Centerville	\$12,500
Reach in refrigerator (3 door) at Centerville	\$ 4,500
Cook Tops at Centerville and BWB	\$17,500
Serving line replacement at BHMCS 4/5	\$25,500
Contingency	\$ 7,500
Total	\$67,500

PROJECT: SCH-13-13 **DEPARTMENT PRIORITY: 13 of 25**

Project Working Title: **PARKING LOT RECONSTRUCTION**
Project Location: BHS, BIS and HMCS 4/5 parking lot maintenance and repairs

Project Description: Maintain the parking lots within our district. This project will allow us to maintain proper drainage, properly repair pot holes and speed bumps, and also seal any cracks to prevent water intrusion. This will also aide in safety for our students and staff.

Project Justification: In the past 3 years we have made a MAJOR investment in the parking lots at Hyannis West, BCHMCPS, Centerville, West Villages, and BWB by totally reconstructing them. Now, we need to turn our attention to our last three schools, BHS, BIS and HMCS 4/5. The pavement at these schools is in fair condition. However, by performing some maintenance on them, we can extend the life of them by another 10+ years! We have numerous pot holes at BHS that were not repaired properly, and many cracks at BIS and HMCS 4/5. These cracks are getting larger and allowing water to get in and freeze, which is exacerbating the situation. By allowing funding for this project, we can avoid the costs of future reconstruction of these lots and extend their life.

Impact of Denial/Postponement: Every year we wait, increases the further erosion of these last 3 parking lots. The snow plows are catching the raised cracks in the surface, tearing holes which just grow in size and depth. The cracks are filled with moisture which freezes and expands, thus heaving the pavement and creating larger cracks. Public safety of both those driving and those walking is being compromised. By funding this project, we will be able to greatly extend the useful life of these 3 parking lots.

Project Cost Estimates: Construction \$ 110,000

Project Estimated Completion Date: August 2012

Project Cost/Description FY 2011 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$110,000	Maintenance and repairs at BHS, BIS and HMCS 4/5
2014	\$50,000	System wide Maintenance
2015	\$50,000	System wide Maintenance
2016	\$50,000	System wide Maintenance
2017	\$50,000	System wide Maintenance

Source of Funding: General Fund

Operating Budget Impact: Reduction in routine maintenance and by maintaining our parking lots, we can extend the useful life and also protect the environment from runoff.

PROJECT: SCH-13-14

DEPARTMENT PRIORITY: 14 of 25

Project Working Title: UPGRADE AND RENEWAL OF HVAC SYSTEMS

Project Location: District Wide

Project Description: This project will upgrade, replace, and renew the various HVAC systems.

Project Justification: We have failed pumps, compressors and are running on our back up systems. Our rooftop units are aged and in some cases, the manufacturer no longer supports repairs, so we have gone to the secondary market for makeshift repairs. We have installed a new Honeywell Tridium Energy Management system at BHS (courtesy of the Cape Light Compact and their \$963,000.00 grant!) and now need to repair the circulating pumps, motors and compressors at BIS and BHMCS 4/5. These pumps are leaking and are running at full capacity, with a damper to slow down the water flow. This is akin to running your car at 40 MPH, but having the service brake half applied. It is very wasteful! At BIS and BHMCS we still have the antiquated Siemen's System that cannot be controlled remotely, and when we need to make a change, we need to physically go to that building and this costs us in overtime dollars.

Impact of Denial/Postponement: If we do not fund this project, we will not be able to save energy dollars and also replace failed equipment. This will limit us in the renting of our facilities and continue to cost the district overtime dollars.

Project Cost Estimates: Construction \$ 245,000.00

Project Estimated Completion Date: December 2012 (2013 items)

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$245,000	Large upgrades to BIS, BHMCS 4/5, & elementary schools.
2014	\$235,000	Upgrades to BIS, BWB, & elementary schools
2015	\$ 90,000	Upgrades to Centerville Elementary
2016	\$ 55,000	Upgrades to Hyannis West
2017	\$ 55,000	Add A/C to BCHMCPS offices & facilities assessment.

Source of Funding: General Fund

Operating Budget Impact: Savings in energy costs

Project Cost Analysis:

2013: Upgrade HVAC systems at BIS, BHMCS 4/5 & elementary schools	\$245,000
2014: Upgrade HVAC primary and secondary systems at BIS, BWB and elem schools	\$235,000
2015: Upgrade Univents at Centerville	\$ 90,000
2015: Upgrade systems at Hyannis West	\$ 55,000
2016: Add A/C to areas of BCHMCPS and facilities assessment	\$ 55,000

PROJECT: SCH-13-15

DEPARTMENT PRIORITY: 15 of 25

Project Working Title: IMPROVED SAFETY IN OUR SCHOOLS

Project Location: various schools district wide

Project Description: This project will allow us to install additional video surveillance at BHS, renew worn and defective doors and locking devices, add security lighting, and install smoke detecting devices in the student rest rooms. In future years we will upgrade systems at all elementary schools as per our 5 year improvement plan.

Project Justification: Small breaches of security in recent years and lack of preparedness have given way to unspeakable acts against citizens, including school aged children. Our school system needs to take precautions by being able to aid the police and also to be able to identify any perpetrators of any crimes. By being able to expand the video recording equipment at BHS, we will be able to further monitor entry and exit doors, and also safeguard the students from any shenanigans that may occur in the hallways. We will be able to better curb tobacco use in the restrooms by having detectors, freeing teachers from standing guard outside the doors, and also expanding outside safety lighting in parking lots. We will also be able to replace worn and tired doors and nonsecureable locks, which cost us overtime dollars to repair, as they always seem to fail at the end of shift.

Work Accomplished Prior Project: Installed 24 additional cameras at BHS, installed 12 additional cameras at BIS, installed video systems at Centerville and maintenance building, replaced athletic lockers and locks, added security lighting at BHS, upgraded alarm panels at all schools.

Impact of Denial/Postponement: If this project is not funded, we will run the risk of having crimes committed against our students and staff and not be able to help identify or prevent such.

Project Cost Estimates: Construction \$ 100,000

Project Estimated Completion Date: FY 2013 (FY13 project)

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$100,000	Expand video system at BHS, add security lighting And smoke detection at BHS restrooms and direct Excess funds to Hyannis West
2014	\$125,000	Upgrade video system at BCHMCPS and replace doors
2015	\$75,000	Upgrade video system and doors at Centerville
2016	\$ 75,000.00	Upgrade doors and locks at BWB
2017	\$ 75,000.00	Upgrade video system at Hyannis West

Source of Funding: General Fund

Operating Budget Impact: Reduction in crime related damage.

PROJECT: SCH-13-16

DEPARTMENT PRIORITY: 16 of 25

Project Working Title: EXTERIOR MASONRY/FLASHING REPAIRS

Project Location: All Schools District Wide

Project Description: This project will address the re pointing of bricks, chimneys, concrete and stucco walls, flashing, window repairs/normal replacement and the repair of loading docks

Project Justification: Our buildings are aging and without proper maintenance. At BHS, we have water intrusion through the bricks that have become porous and the concrete joints that have fallen out from age. This is the case with the chimneys, sidewalls, loading docks and oil tank covers at all of our schools. This project will allow us to tuck point defective brick joints, repour loading dock platforms, and add safety railings in the existing concrete, and waterproof and seal masonry and concrete surfaces. This funding will also allow us to re flash defective vent pipes and add thru wall flashing to redirect the flow of water away from the walls it is leaking into. BIS has large problems with the dryvit exterior walls. We have numerous leaks when it rains.

Impact of Denial/Postponement: If this project is not funded, then we will continue to have water intrusion into our buildings through defective mortar and flashing. This will allow the growth of mold and mildew and our concrete buildings will continue to erode faster than with proper maintenance.

Project Cost Estimates: Construction \$ 145,000

Project Estimated Completion Date: June 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 145,000	BHS repairs
2014	\$ 350,000	BIS repairs
2015	\$ 350,000	BIS repairs
2016	\$ 255,000	BWB, West Villages, Hyannis West BCHMCPS
2017	\$ 195,000	BHMCS 4/5

Source of Funding: General Fund

Operating Budget Impact: Completion of this project will allow the district to save money by lowering energy costs, by further tightening up our building envelopes.

Project Cost Analysis:

2013: Re point bricks at BHS and repair masonry walls as needed and Water proof bricks and façade as needed. Replace defective windows and flashings	\$145,000.00
2014: Repair defective flashing at BIS and waterproof	\$350,000
2015: Repair defective flashing at BIS and waterproof	\$350,000

2016: Repair defective concrete joints at BWB, West Villages & BCHMCPS	\$165,000
2017: Repair defective flashing and waterproof at BHMCS 4/5	\$195,000

PROJECT: SCH-13-17	DEPARTMENT PRIORITY: 17 of 25
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Project Working Title: Window replacement at Centerville Elementary
Project Location: Centerville

Project Description: This project will replace ORIGINAL windows in phases at Centerville Elementary School.

Project Justification: Centerville Elementary School is over 50 years old and has many of the original windows that were single pane windows when energy dollars were inexpensive. They bring in plenty of light, kept the rain out (most of the time!), and protected us from the weather. However, they have some downsides:

- o The original windows allow glaring sunlight that causes us to use roller shades. These shades have become a large maintenance item and costs for replacements are high. As they fade, they become an eyesore, as we have newer ones alongside 20 year old ones. This gives the building a neglected look.
- o Since Centerville does not have air conditioning, the solar gain is immense in the warm weather, causing overheating of the classrooms.
- o The single pane glass is easily breakable by vandals and costs us overtime dollars on off hours and weekends to make temporary repairs to keep the weather out.
- o The original windows allow precious energy dollars to escape, and in winter makes our students and staff wear jackets and hats while teaching and learning.

Today we have two schools, Hyannis West Elementary, which underwent a window replacement using modern materials several years ago, and BWB which had all of it's windows replaced last year. We have, along with the MSBA, funded a partial replacement at Centerville Elementary and cafeteria windows at the now closed Osterville Elementary. We need to continue this replacement. The new windows use a combination of clear double pane insulated glass as well as Kalwall, an opaque insulated structural building component used in the upper portions of the large window openings. Because the actual clear glass is limited to the lower section and Kalwall above:

- The glaring sun is no longer glaring in the classroom. The opaque window structure allows daylight through but stops all direct sun rays from entering no matter what the hour of the day. The insulated double pane operating glass panes at the bottom of the window structure allows for the daydreaming to continue and still allows for fresh air when necessary. Shades are no longer necessary at all which has eliminated both the expensive cost of material as well as the service call for custom sizing and installation. From the exterior, since the window grille pattern is built into the Kalwall opaque structure, the classrooms appear to have new window shades all drawn to the same uniform height.
- Solar gain is no longer an issue since the sun rays at certain hours that produced the uncontrolled heat near the windows is reflected out only allowing daylight in. This helps to keep the classrooms more comfortable especially in the shoulder months of fall and spring. An added advantage to this replacement is an energy savings of lighting. Since with the existing windows shades were utilized to block out the sun's rays, it also blocked out the sun's light necessitating the use of all the lights in the classrooms. With the opaque windows allowing and more correctly diffusing and reflecting the sun's rays off the ceiling and all walls, the use of lighting is reduced and so is the energy bill.
- At Hy West, all window structures at the rear of the building, historically one of the worst for vandals in the Town, were installed with a heavier Kalwall. Today we can see evidence of rocks,

bricks and baseballs that have attempted to break through the surface of the windows but only scratched the surface.

- The Kalwall has an R value of 20; that is higher than a structural 2 x 4 insulated wall. Because a portion of the window structure has been replaced with the highly efficient Kalwall and the remainder with a very good quality insulated glass, heat loss has been reduced and energy savings increased.
- Another factor being brought into the equation of window replacement is one of safety from harm. We are researching the possibility of installing an operating window large enough to be used as an easily accessible means of egress from every 1st floor classroom yet secure enough to keep others out. During an emergency lockdown situation, this would be a nice feature to get the students and staff out of harms way.

Our schools are on a course to be upgraded and improved. One of these improvements has been boiler replacements. Boilers that were installed 40+ years ago were sized for large energy inefficient buildings with plenty of heat loss, thus over sized expensive boilers. Today we need to work hand in hand with other projects making wise complete package improvements. This window project will allow for the proper sizing of efficient boilers in our schools in the future as well as protecting, keeping warm and providing the correct educational setting for our students. Windows installed today will be in use for 20+ years to come, a major improvement in our infrastructure protection as well as lowering operating cost, short term, and long, especially in regards to energy. All work in this project is done directly for the purpose of improving the structures used in educating the town's children.

Impact of Denial/Postponement: Denial of funding will result in our original windows staying in place and continue wasting energy dollars. We also will not be progressive in keeping our buildings up to date.

Project Cost Estimates: Construction \$ 300,000.00

Project Estimated Completion Date: Each phase completed by August of fiscal year

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$300,000	Window replacement Centerville remainder Bldg A
2014	\$99,000	Window replacement Centerville Wing Building B
2015	\$220,000	Window replacement Centerville Bldg C & S Side conn
2016	\$120,000	Window replacement Centerville Gym
2017	\$845,000	Window replacement Centerville Bldg D, No and So

Source of Funding: General Fund

Operating Budget Impact: Once the single pane windows have been replaced:

- Reduced time & material used by maintenance on repair work orders to glass and shades.
- Reduced need for over sized boilers
- Reduced energy consumption because of energy efficiencies gained with insulating materials.
- Better educational time spent on learning and not fighting with sun's rays and heat gain in areas of the class room.

Supplemental Information: This project will be completed over 5 years.

- We have replaced 27 windows at Centerville Elementary
- We have 209 remaining windows at Centerville to be replaced

2012: Additional phase at Centerville Elementary	\$300,000
Project Management and Contingency	<u>\$35,000</u>

	\$335,000
2013:	
Additional phase at Centerville	\$99,000
Project management and contingency	<u>\$35,000</u>
	\$134,000
2014: Additional phase at Centerville	\$220,000
Project management and contingency	<u>\$35,000</u>
	\$255,000
2015: Additional Phase at Centerville	\$120,000
Project Management and contingency	<u>\$35,000</u>
	\$155,000
2015: Final phase at Centerville	\$845,000
Project management and contingency	<u>\$75,000</u>
	\$920,000

PROJECT: SCH-13-18	DEPARTMENT PRIORITY: 18 of 25
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Project Working Title: COGENERATION MIDDLE SCHOOL
Project Location: Barnstable Middle School

Project Description: The installation of a 150kw cogeneration gas fired turbine at the Middle school will generate electricity at the facility which will be used on site to offset the purchase of electricity from NSTAR. The waste heat from the burning of the natural gas fuel will be used to heat the building, to preheat the boiler water, and assist in heating the domestic hot water used at the facility.

Project Justification: The payback on this investment can be felt within 4 to 5 years, or the savings can begin to accumulate immediately through one of several financing scenarios. This is also a part of the Town's overall reduction of greenhouse gas emissions and will support the town's goals of lower GH Gas emission by 20%. It also provides a living classroom environment where students can see renewable and alternative energy solutions first hand and at work in their environment. We have shown a savings at the Barnstable High School and should continue on with our quest for being a leader in the energy generating field.

Impact of Denial/Postponement: The school will continue to pay for electricity off of the deteriorating New England Power grid and will lose the potential to save over \$45,000 per year through the use of the secondary heat.

Project Cost Estimates: Design \$ 30,000 Construction \$ 320,000,000

Project Estimated Completion Date: April 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$350,000	Design, Install and tune for operation

Source of Funding: General Fund

Operating Budget Impact:

Project Justification: This building was renovated in 1999 along with the high school project. The total costs for both projects \$60,000,000.00, with Barnstable Intermediate School costing \$13,710,000.00. Although the project came in “on time and under budget” most of the workmanship performed at BIS was sub par resulting in moisture infiltration through improperly installed membranes, improper sheet metal flashings used on the roof, underlayment and exterior walls, and the use of sealants in the absence of flashings and other associated components around window assemblies. The number of active leaks is substantial. The roof insulation system is taking on moisture as a result of poorly installed membrane and sheet metal flashings. Exterior gypsum wall sheathings are taking on moisture as a result of poorly installed and/or defective underlayment, and the absence of window flashings and deteriorated window perimeter sealants. These leaks have infiltrated into interior occupied spaces throughout, and it can be anticipated that over a period of time moisture infiltration will result in accelerated deterioration of roof components, (insulation, securement fasteners) and wall components (gypsum sheathing, insulation, metal studs and interior finishes) and extended infiltration into occupied spaces.

Lastly, the basic design of the EIFS exterior walls appears to be non-compliant with basic industry standards for exterior wall construction. There are questions as to the use of felt underlayment behind the EIFS system, the lack of sheet metal head and sill pan flashings at windows/curtain walls in wall/storefronts, the lack of appropriate wall transitions to window openings, the inconsistency of underlayment behind the EIFS system and the absence of drip edges and end dams at window sill flashings, all appear to be major contributors to the leakage that we are experiencing.

Due to the multitude of leakage problems and unknown conditions beneath, it is the recommendation of our engineer, Gale Associates that the roof membrane and sheet metal flashings be removed and replaced at the perimeter and at the unit curb bases. This should be performed in conjunction with the installation of new skirt flashings where they are not currently installed. In addition, the upper roof scuppers and various roof drain components should be removed and replaced.

To cure the grave deficiencies in the EIFS wall system and lack of window flashings with a PERMANENT solution, we will also need to remove the EIFS, windows/curtain walls, interior insulation and vapor retarder and install new pressure equalized metal panel rain screen system, which includes new thermally broken windows.

Impact of Denial/Postponement: By not funding of this project, we will continue to have unsafe conditions, moisture infiltration, and the shortened life of one of our newest facilities.

Project Cost Estimates: Design \$ 250,000.00 Construction \$ 5,527,923.00

Project Estimated Completion Date: Late FY 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$1,533,480	Replace roof system with PVC roofing system
2014	\$3,994,443	Replace EIFS system and windows as below

Source of Funding: General Fund

Operating Budget Impact: Save on routine/emergency repairs and heating fuel.

Supplemental Information:

Replace existing roof system with new PVC system	\$1,277,900.00
20% contingency	\$ 255,580
Remove existing EIFS windows/curtain walls, interior insulation	

& vapor retarder, install new pressure equalized metal panel
 Rain screen system and new windows
 20% contingency

\$3,328,702.00
 \$ 665,740.00

PROJECT: SCH-13-21	DEPARTMENT PRIORITY: 21 of 25
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Project Working Title: DOOR REPLACEMENT AT BCHMCPs
Project Location: 165 Bearses Way, Hyannis, MA
Project Description: This project will fund the replacement of all exterior and interior doors and hardware

Project Justification: This is a 1951 building and is original, including the doors and hardware. The interior doors do not have the crash bar opening devices, and the closers are set in the cement floors. These issues pose two problems, the first is in an emergency, the doors are not easily opened by pushing on them, but must have (in most cases) the door knobs turned! The closers that are original to the building are no longer manufactured and parts are no longer available. With them being in the floor, any repairs must include removing the door (two man job) and digging out the floor base plate for repair/replacement. This poses the extreme hazard of crushing a child's finger as the door closes rapidly and without care due to these defective closers. The exterior doors are fragile to say the least. They are all glass and do not stay shut. We have fabricated aluminum pieces that we drop over the handles to keep the doors secure nights and weekends. This will pose a hazard if there is an emergency at night and a fire fighter is trapped inside, as when he tries to exit the building by following the exit signs, the doors will be secured shut and unable to open. We have just made a \$1,000,000.00 commitment to this building with a state of the art heating system, so we need to continue the work of refurbishment.

Impact of Denial/Postponement: Denial of this project will subject our student's accidental harm to their fingers and hands and also endanger the lives of anyone who needs to exit the building in an emergency.

Project Cost Estimates: Design \$ \$30,000.00 Construction \$ 252,500.00

Project Estimated Completion Date: April 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$282,500.00	Design and replacement of interior and exterior doors

Source of Funding: General Fund

Operating Budget Impact: This project will show savings in fewer burglar alarm calls and also save us energy in heating costs.

PROJECT: SCH-13-22	DEPARTMENT PRIORITY: 22 of 25
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Project Working Title: ADDITION OF AIR CONDITIONING TO BHS
Project Location: Barnstable High School

Project Description: To install air conditioning to moderate temperature and humidity in 10 critical areas of BHS.

Project Justification: The renovation of BHS 12 years ago originally included air conditioning; however it was deleted due to cost containment measures. There are 10 crucial areas that have little or no fresh air circulation. These areas are occupied 12 months of the year and the summertime can be brutally hot and unhealthy. The 10 areas of concern are:

- 2 classrooms with no opening windows
- 5 house offices
- Main guidance
- Broadcasting room (NO WINDOWS! MANY COMPUTERS!)
- Electronic control room

Impact of Denial/Postponement: These areas have full time workers in them 12 months of the year and also house computer networking equipment that the entire district depends on. In the past, they have overheated and crashed, bringing the entire network to a complete stop. EVERY school depends on this computer equipment!

Project Cost Estimates: Design \$

Project Estimated Completion Date: October 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$196,000.00	Installation of A/C in 10 locations at BHS

Source of Funding: General Fund

Operating Budget Impact: This will protect our computer equipment and also increase productivity during the summer months.

PROJECT: SCH-13-23	DEPARTMENT PRIORITY: 23 of 25
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**Project Working Title: INFRASTRUCTURE IMPROVEMENT FOR THE BPS NETWORK:
ACCESS TO INTERNET AND EDUCATIONAL RESOURCES**

Project Locations:

School Administration Building, 230 South Street, Hyannis
Barnstable High School, 744 West Main Street, Hyannis
Barnstable Intermediate School, 895 Falmouth Road, Hyannis
Barnstable Horace Mann Charter School, 730 West Barnstable Road, Marstons Mills
Barnstable Community Horace Mann Charter Public School, 165 Bearses Way, Hyannis
Barnstable West Barnstable Elementary, 2463 Main Street, Barnstable
Centerville Elementary, 568 Bay Lane, Centerville
Hyannis West Elementary, 549 West Main Street, Hyannis
West Villages Elementary, 760 Osterville-West Barnstable Road, Marstons Mills
Osterville Elementary, 350 Bumps River Road, Osterville

Project Description: The funding of this capital improvement project will allow all of the Main Distribution Frame (MDF) closets and Intermediate Distribution Frame (IDF) closets in eight schools to be upgraded with switches that can handle bandwidth speeds up to 1 Gigabit. The requested project is for installation of the following:

- Ñ HP E5412-92G-POE switches,
- Ñ HP E2910-24G-POE switches,

- Ñ Miscellaneous parts for installation of switches,
- Ñ Single mode fiber optic cable, and its installation, by contracted vendors
- Ñ Halon fire suppression in server rooms, and its installation by contracted vendors
- Ñ Air condition system in server rooms, and its installation by TOB/School maintenance
- Ñ UPS Battery backups

Background and Significance of broadband speeds and the relationship to the hardware/infrastructure request: Currently, we have connections to the Internet via Broadband cabling (pipeline) that Comcast provides to schools free of charge. Those speeds are generally 6 megabits (600 bits per second) coming 'in' and 1 megabit (100 bits) going 'out'. This speed is equivalent to what most ordinary citizens have in their homes; and it is serving whole elementary schools of approximately 300 students and staff. It is neither adequate nor sufficient to run an educational institution. At some of the schools, we have had to purchase additional bandwidth which increases our speeds to 50 megabits (5000 bits per second) in and 20 megabits (2000 bits per second) out. This bandwidth is neither adequate nor sufficient to run an educational institution. We must increase out bandwidth; bandwidth is mission critical to our daily operations. **(NOTE: No funding of bandwidth is asked for.)** Barnstable Public Schools technology operating budget will fund increased speeds for improved educational opportunities. The schools will also have the opportunity to have access to a 1 gigabit broadband connection in the next year, when the Open Cape project is completed.

Outcome: Barnstable Public Schools needs to build the infrastructure that supports these larger bandwidths (pipeline'). With that said, a switch routes all the traffic on the 'pipeline'; a switch can be described as a 'traffic cop', routing the traffic (packets), in and around the network, reading the 'addresses' and sending them to the appropriate place, anywhere all over the world. Currently our switches can handle speeds of 100 mb. With bigger bandwidth, bigger switches are needed. The proposed switches will be able to accommodate bandwidth of 1 gigabit, or 1000 megabits, (1,000,000 bits) which is 10 times faster than our current situation.

The following table provides the current situation of Broadband speeds and the increased demand for Bandwidth speeds in comparison the requirements of new switches.

Recall: with bigger bandwidth, bigger switches are needed.

Current Speeds of Broadband Internet Access		Current Switch Speeds	Recommended Switch Speeds
Cable Modem	Comcast	6 megabits down 1 megabit up	1000 megabit 1Gb
Free		6mb/1mb	
Business Service	Class Comcast	50 megabits down 20 megabits up	10 times faster for improved performance
\$180.00 per month per building		50mb/20mb	
Recommended increase in Bandwidth speeds for 2012-2013 school year and beyond			
Minimum Recommended Speeds		100 megabits down 100 megabits up	The recommended switches will also handle POE, Power Over Ethernet, which power and manage any wireless device that is put in place for the future.
\$1500 per month		100mb/100mb	

10 times faster for improved performance		
Open 1	Cape gigabit	1000 megabits down 1000 megabits up
FREE		1000mb/1000mb 1 Gb/1Gb
20 times faster for improved performance		

Project Justification: The Town of Barnstable will begin construction on the Barnstable Fiber Optic Network with the Town Manager and Town Council approval in December of 2011. This will connect every municipal and school building with fiber optic cable. The projected completion of this project is September of 2012. Once we connect our buildings, we must allow for those speeds and connections to flow internally across schools to the end user.

The Open Cape Corporation has been awarded \$32 million dollars and with matching state funds of \$ 8 million dollars to construct a 350 mile core fiber optic backbone on Cape Cod which will connect to two major regional networks in Providence and Brockton. Both the Town of Barnstable at 367 Main Street and Barnstable High School at 744 West Main Street, along with seven other libraries within the Town of Barnstable, are serving as ‘anchor institutions’ that will have a direct connection to the backhaul. According to Tony DaSilva of Cape Net, the company who has been awarded the construction contract of the Open Cape Project, the Barnstable ‘leg’ of the project is expected to be completed by October of 2012.

Barnstable High School, as an anchor, will be provided, free of charge, Internet access of 1 gigabit, shared with the other 15 towns that reside/connect on the OPEN CAPE infrastructure. With the connection provided by Open Cape/Cape Net, we can then configure out network and push out Internet access through the Barnstable Fiber Optic Network to all of the schools in the Town of Barnstable. Most educational resources reside ‘in the cloud’ and more and more resources and tools are put there everyday. Internet access is mission critical to our work. We must prepare our internal connections for this increased access to the Internet and other educational resources we provide to our students.

In essence, we are future proofing our network to accommodate the increased needs of student access for the next five years, at a minimum. Technology must be leveraged in the educational realm to provide more engaging and powerful learning experiences. Over 5300 students and 800 staff in our schools access the Internet for information and educational resources on a daily basis. It is our obligation to educate our students to prepare them for the future. Without technology and technology skills, our students are in jeopardy of falling behind their peers, and will be unable to compete in a global environment/economy.

The 2010 National Technology Plan <http://www.ed.gov/sites/default/files/NETP-2010-final-report.pdf> published by The National Educational Department in Washington DC, has created a model of 21st century learning. Some key points of a 21st century learning environment include:

- A comprehensive infrastructure for learning that provides every student and education with the resources they need when and where they are needed.
- A movement to beyond the traditional model of teaching and learning to learning model that brings the world into the student’s hands. The focus is not on the technology, it is the information that becomes available to them when they need it. It is about access.
- Powerful technology resources that are ‘always on’ and are available for increased learning, no matter what time of day, or where they are. The infrastructure facilitates access to information,

multimedia content; it facilitates collaboration and creativity across disciplines, organizations, international boundaries and cultures.

Moreover, Goal 4.0 of the National Educational Plan states:

“All students and educators will have access to a comprehensive infrastructure for learning when and where they need it.

To meet this goal, the challenge for districts to provide are to:

- 4.1 Ensure that students and educators have adequate broadband access to the Internet and adequate wireless connectivity both inside and outside school.
- 4.2 Ensure that every student and educator has at least one Internet access device and software and resources for research, communication, multimedia content creation, and collaboration for use in and out of school. “

At the state level, the Massachusetts Department of Elementary and Secondary Education (also has recommendations regarding an infrastructure to support teaching and learning. Benchmark 5 Infrastructure for Connectivity addresses our need for improvements in our infrastructure. Standards 5.1.1, 5.2.2., and 5.3 stress the need for internet access to each classroom including wireless access to all for teachers and students to use educational resources and learning environments that are increasingly hosted on-line http://www.doe.mass.edu/edtech/tplanguide04_07.html) Additionally, the Massachusetts new common core standards (<http://www.doe.mass.edu/frameworks/ela/0311.pdf>) increases emphasis on communication, collaboration, creation of media rich content and publishing skills required for college and career readiness. In order to meet these standards students and teachers need to utilize Internet based tools to reach these goals. A strong robust infrastructure is necessary to meet this increasing demand. Standard MA3.A.6 states:

“Students will use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology’s capacity to link to other information and to display information flexibly and dynamical.”

AT the local level, an education institution that is redesigned with 21st century learning at the forefront is very attractive to families with school age children. A top level educational institution can be a plus for the town and its economic development. Families will want live, work and educate their students in the Town of Barnstable. The Barnstable School Committee and its Superintendent wish to become a showcase district on the Cape and through school choice retain, recruit and attract children in the Cape area to be educated here in Barnstable.

Impact Of Denial/Postponement: Denial or Postponement of this request will force us to work in less than adequate conditions and provide inadequate bandwidth. Students, Teachers and Staff will become frustrated with technology, and turn away from it. They will look upon their attempts to infuse technology as wasted time. Technology tools should be ubiquitous in the educational process; it is a means to an end. The infrastructure and its various technologies should be reliable and dependable. Unfortunately, when students walk into Barnstable Public Schools, they ‘power down’.

If improvements are not made, Barnstable Public Schools would be ignoring the recommendations of a 21st century and we would be putting our students at risk for failure. Without an upgrade to our internal connections, we cannot offer our students a top notch education. Moreover, without improvements to our infrastructure the opportunity of Open Cape, all of its bandwidth speeds will surround us, but we will not be able to ACCESS in our buildings and classrooms. While the optimum timeline and funding request is to complete this project in its entirety in one year, as access to information for our student body is of an immediate need, the project could be managed over a 2-3 year rollout. Schools would be selected based on most impact, and a priority list has been created in order to accommodate funding over a 2 -3 year period.

Project Cost Estimates: Construction \$ 505,373

Project Estimated Completion Date: September 2015

Method of Project Accomplishment: The fiber optic cabling and halon fireproofing installation will be installed by an outside vendor. In consideration that no staff with those areas of expertise are employed in the Town of Barnstable; the cost is included in the funding request. The remaining equipment will be installed by current staffing with no additional costs to the town.

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 141,900	hardware and installation
2014	\$ 201,433	hardware and installation
2015	\$ 162,040	hardware and installation

Schools in Year One:		Schools in Year Two:		Schools in Year Three	
BIS	\$ 81,907.00	BHS	\$ 190,928.00	BHMCS	\$ 133,645.00
BCHMCPS	\$ 1,245.00	Server	\$	CEN	\$ 6,795.00
HYW	\$ 7,045.00	Fiber	10,505.00	WVES	\$ 7,590.00
BWB	\$ 7,045.00			Lunch	\$ 4,230.00
Admin	\$ 15,194.00			Maintenance	\$ 5,550.00
Server Room	\$ 29,464.00			Trans	\$ 4,230.00

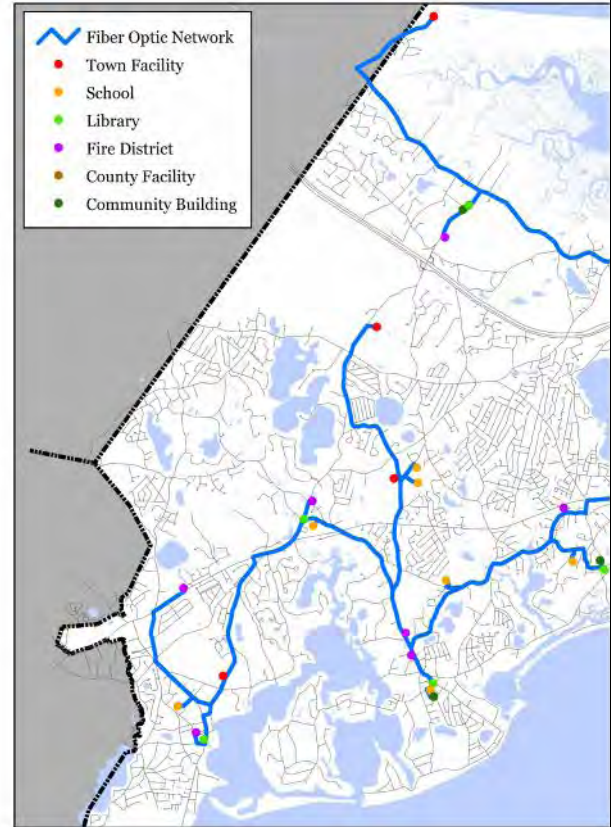
Source of Funding: General Fund

Operating Budget Impact: The bandwidth usages will be monitored closely. It may be that additional bandwidth will have to be purchased over time. Both Comcast and Cape Net has submitted a quote for 100 megabits of bandwidth, and will be considered for the fiscal year 2012-2013 school years. An average monthly bill for 100 mg is approximately \$1500.00dollars. That cost is ERATE-able through the USAC funding for schools and libraries, and reimbursement is based on free and reduced lunch counts. Increased bandwidth can be increased by 100 megabit increments.

This project will have a significant impact on the BPS network services that we provide. Many of the services we offer have to be building based due to current broadband speeds. If we leverage the connectivity through the BFON and the opportunities that Open Cape offer, the district technology department services can be streamlined to one base of operations. There is an economy of scale involved in management of the network.

**Town of Barnstable
Fiber Optic Network**

- 1. Connection of 61 different municipal buildings Including all schools
- 2. Increase bandwidth
- 3. Improve internal connections



OPEN CAPE Network

**Funded by the FCC,
and one of 233 projects
in the Nation.**

PROJECT: SCH-13-24

DEPARTMENT PRIORITY: 24 of 25

Project Working Title: INSTALLATION OF MANAGED WIRELESS NETWORK

Project Locations:

School Administration Building, 230 South Street, Hyannis

3 Dual Radio, 3x3 MIMO, 3 SS, Access Point

Barnstable High School, 744 West Main Street, Hyannis	27 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Barnstable Intermediate School, 895 Falmouth Road, Hyannis	12 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Barnstable Horace Mann Charter School, 730 West Barnstable Road, Marstons Mills	16 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Barnstable Community Horace Mann Charter Public School, 165 Bearse's Way, Hyannis	6 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Barnstable West Barnstable Elementary, 2463 Main Street, Barnstable	7 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Centerville Elementary, 568 Bay Lane, Centerville	6 Dual Radio, 3x3 MIMO, 3 SS, Access Point
Hyannis West Elementary, 549 West Main Street, Hyannis	6 Dual Radio, 3x3 MIMO, 3 SS, Access Point
West Villages Elementary, 760 Osterville-West Barnstable Road, Marstons Mills	7 Dual Radio, 3x3 MIMO, 3 SS, Access Point
School Maintenance	1 Dual Radio, 3x3 MIMO, 3 SS, Access Point
School Lunch	1 Dual Radio, 3x3 MIMO, 3 SS, Access Point
School Transportation	1 Dual Radio, 3x3 MIMO, 3 SS, Access Point

Project Description: The funding of this capital improvement project will allow the construction of a managed wireless network in the district to support the demand for increases connectivity of mobile device and computers. The requested project is for installation of the following:

1. 95 Dual Radio, 3x3 MIMO, 3 SS, Access Point
2. 95 Cat 6 cabling to switches
3. 3 PoE Power Injector 1 GB

The request for wireless access points is the culminating improvement in technology infrastructure. In reviewing the necessary upgrades to the technology to create a school system as a 21st century learning environment the following actions should takes place.

1. Completion of the Barnstable fiber optic network (connecting all town and municipal buildings through the Comcast franchise fees)
2. Increased bandwidth via Comcast or Open Cape through operating budget
3. Upgrade of infrastructure: switching (CIP request)
4. Wireless access points (CIP request)

Note that this project is a managed wireless network. Access points are connected via Cat 6 cabling and directly connected to the switches within buildings. Access points must be configured to our internal connections in order to manage and provide security to our network. The access points selected are a business or educational solution, which allows many connections to each access point.

Project Justification: With consideration of the Town of Barnstable Fiber project and the opportunities that Open Cape will provide to the educational institution (fiber optic connects and big bandwidth), the town and school department now has an unprecedented opportunity to create a 21st learning educational institution in a way that will truly prepare our students to compete in the global economy. Mobile technology and wireless access plays a critical role by equipping students and teachers with 24/7 access to learning communities and information. As mobile devices become ubiquitous, students are utilizing them to facilitate learning and enhance productivity in and out of school.

The explosion of wireless technologies has created a new dimension in education. This project will have a significant educational impact on the BPS. The use of mobile learning devices for productivity, organization, collaboration and learning is highly personal and extremely customizable. Wireless, which provides "anytime, anywhere," access to resources, can have a tremendous impact on teaching, learning, and student collaboration. According to Chis Dede, the Timothy E Wirth Professor in Learning Technologies at Harvard University defines MOBILE LEARNING as "learning a variety of content and skills anytime, anyplace with a small device light enough to be carried in one hand."

There is political interest to invest in the future of education through Race to the Top. There is a national vision for teaching and learning that are beautifully outlined by the National Education Technology Plan (and the National

Broadband Plan). The district technology department supports a vision of an educational system where every student has a technology device in their hand, connected to the Internet and the educational resources that support teaching and learning. A wireless infrastructure that gives students access, anytime and anywhere can support that vision. Students learn best by doing, and that the best learning is personalized to each student, and that learning becomes richest through collaboration with peers, mentors, experts, indeed a whole learning community. We have an opportunity to deploy the technology to enable students to take charge of their learning

In review of *the Speak Up 2009* data and outlined in the report "*Creating Our Future: Students Speak Up about their Vision for 21st Century Learning*" students state a clear preference for using mobile devices that allow them to work un-tethered from traditional school boundaries. They also desire the opportunity to learn using digitally-rich curriculum and have a preference for learning through collaboration with peers. Through mobile devices and instant access to the Internet through a wireless connection, students now see the world as their classroom. They have clearly stated that using mobile devices anytime or anywhere to learn will help them improve their personal productivity and learning. Today's students are taking more and more responsibility for their learning into their own hands (Project Tomorrow 2010).

The 2010 National Technology Plan <http://www.ed.gov/sites/default/files/NETP-2010-final-report.pdf> published by The National Educational Department in Washington DC, has created a model of 21st century learning. Some key points of a 21st century learning environment include:

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- Powerful technology resources that are 'always on' and are available for increased learning, no matter what time of day, or where they are. The infrastructure facilitates access to information, multimedia content; it facilitates collaboration and creativity across disciplines, organizations, international boundaries and cultures.

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AT the local level, an education institution that is redesigned with 21st century learning at the forefront is very attractive to families with school age children. A top level educational institution can be a plus for the town and its economic development. Families will want live, work and educate their students in the Town of Barnstable. The Barnstable School Committee and its Superintendent wish to become a showcase district on the Cape and through school choice retain, recruit and attract children in the Cape area to be educated here in Barnstable.

Project Cost Estimates: Construction \$ 86,025

Project Estimated Completion Date: 2014

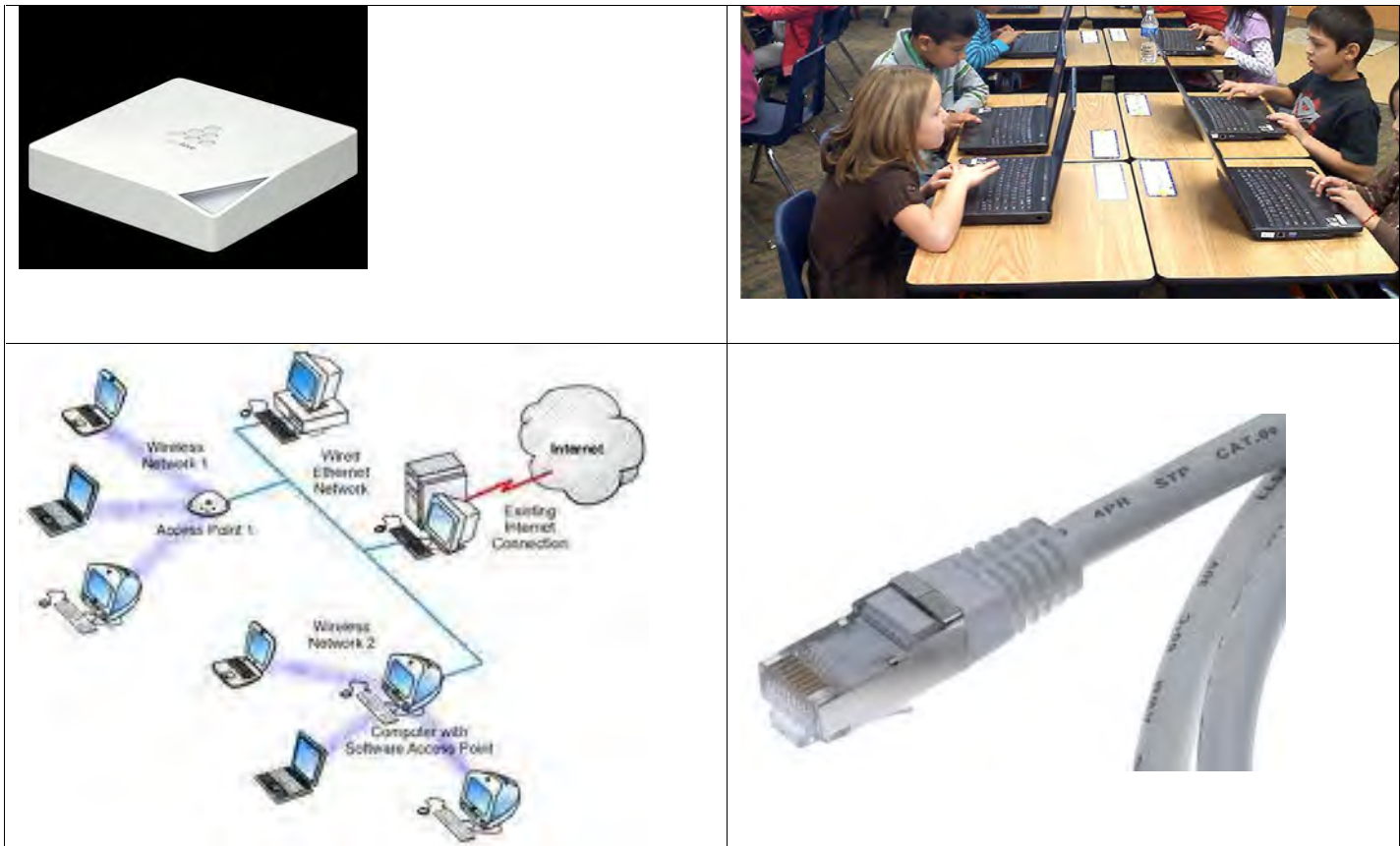
Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 43,012.00	hardware and installation
2014	\$43,012.00	hardware and installation

While the optimum timeline and funding request is to complete this project in its entirety in one year, as access to a wireless infrastructure for our student body is of an immediate need, the project could be managed over a 2 -year rollout. Schools would be selected based on most impact, and a priority list has been created in order to accommodate funding over a 2 -year period.

Source of Funding: General Fund

Operating Budget Impact: None



PROJECT: SCH-13-25 **DEPARTMENT PRIORITY: 25 of 25**

Project Working Title: UPGRADE OF MARSTONS MILLS WEST
Project Location: Marstons Mills West Elementary

Project Description: Marstons Mills West Elementary School was built in 1957 on 13.1 acres of land. It was designed to educate 164 students. The school is largely original, with the exception of two modular classrooms which were added later on. The school is now in need of updating to continue its service into the next 50 years. This project will include replacing the rotted fascia boards with newer rot proof materials. It will also replace the ancient and original kitchen stove, oven, and refrigeration with fresh

Project Description: The original Runway 6 Engineered Material Arresting System (EMAS) bed was installed in 2003 to prevent concerns related to aircraft overshoots and undershoots on runways that do not meet FAA Runway Safety Area (RSA) requirements. The installation on Runway 6 primarily consists of light weight concrete blocks with a concrete cement top board. This project would consist of conducting a field strength test, and if suitable, replacing the existing top board with a new and improved top board and/or reconstruction as may be required.

Project Justification: The Barnstable Municipal Airport (BMA) EMAS is a “first generation” system with a projected 10-year lifespan. The BMA was visited by the Engineered Arresting Systems Corporation (ESCO), who originally installed Runway 6 EMAS bed, in 2009 as part of an FAA project to investigate and determine if airports which have EMAS beds are qualified to receive this new top board. It was determined that Barnstable Municipal Airport is eligible for this replacement. This new top board will extend the life of the EMAS bed and provide better adherence of paint requiring less maintenance by the Airport. An inspection to confirm this is scheduled for completion in FY2012.

Project Status: \$20,000 appropriated in FY12 for inspection and evaluation of EMAS bed.

Impact of Denial/Postponement: The EMAS bed will not be better protected, will increase the risk of failure if used to prevent an overshoot or undershoot, and will require replacement sooner. The BMA will continue to provide frequent maintenance of the EMAS bed costing more money.

Project Cost Estimates: Construction: \$880,000

Project Estimated Completion Date: 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$800,000	Design, Construct and/or Retrofit
2014	\$	

Source of Funding: Funding by FAA (90%) (AIP and /or FAA Discretionary Funds), MassDOT AD (5%), and local share (5%) from airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-13-02	DEPARTMENT PRIORITY: 2 of 18
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Project Working Title: RUNWAY 15 RUNWAY VISUAL ZONE (RVZ) CLEARING – PHASE 2

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Runway Visibility Zone (RVZ) should be cleared of obstructions to enhance aviation safety. This phase of overall project completes the design for removal of existing vegetation and completes tree clearing to enhance aviation safety by clearing obstructions from within the Runway Visibility Zone (RVZ) that pose risks to aircraft operations.

Project Justification: All land within the airport boundaries must comply with land uses permitted by the Federal Aviation Administration (FAA). The RVZ is a line of sight safety requirement established by the FAA for pilots to be able to view crossing air traffic on runways while operating on an adjacent or connecting runway in order to prevent runway or mid-air collisions. The RVZ is located on the northeast side of the airport, between both runways and is bounded by wetland buffer zones surrounding the Upper Gate Pond and Lewis Pond with tree growth that directly impedes the ability of pilots to see other aircraft

operating in the airport environment, particularly during the hours between 10:00PM and 6:00AM when the Air Traffic Control Tower is not manned and the airport operates essentially as uncontrolled airspace.

Project Status: \$75,000 appropriated in FY12 for permitting and preliminary design

Impact Of Denial/Postponement: To deny or postpone funding of this capital project will have significant potential flight safety consequences with regard to airport operations; and continues to affect the ability of pilots to prevent avoidable airport and mid-air collisions, with resultant loss of life or significant injuries.

Project Cost Estimates: Design & Construction \$400,000

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$400,000	Design and Construction (Tree Clearing)

Source of Funding: Reimbursable funding by FAA (90%)(AIP and/or FAA Discretionary), MassDOT AD (5%), and local share (5%).

Operating Budget Impact: None

PROJECT: AIR-13-03

DEPARTMENT PRIORITY: 3 of 18

Project Working Title: REPLACE SNOW REMOVAL EQUIPMENT (SRE) AND AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) EQUIPMENT

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Snow Removal Equipment (SRE) and Aircraft Rescue and Fire Fighting (ARFF) equipment must be maintained regularly and when certain FAA approved equipment is eligible for replacement with FAA grant assistance, SRE and ARFF vehicles and equipment must be evaluated and replaced as necessary.

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, including snow removal; and to maintain our FAA FAR Part 139 airport certification, certain equipment must be available and in good condition to perform as required.

Project Status: \$400,000 was approved in FY 12 but project was cancelled due to Airport Enterprise Fund constraints.

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: Purchase \$400,000

Project Estimated Completion Date: 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$400,000	Replace 2004 Airfield Sweeper
2014	\$540,000	Replace 1999 Heavy Duty ARFF Vehicle Replace 1981 Loader with 36 ft Plow
2015	\$290,000	Replace 1995 Heavy 6 Wheel Dump Truck with Sander and Plow
2016	\$0	
2017	\$650,000	Replace 1998 Kodiak Snow Blower with heavy duty self-propelled rotary blower

Source of Funding: FAA AIP reimbursable Grant funds at 90%; MassDOT at 5%; BMA at 5%

Operating Budget Impact: Reduced maintenance costs



PROJECT: AIR-13-04

DEPARTMENT PRIORITY: 4 of 18

Project Working Title: EAST RAMP SEWER EXTENSION
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The proposed project would provide municipal sewer service to existing buildings located on the East Ramp, and accommodate future growth in this area. The Airport will require existing facilities on the East Ramp that use an on-site septic system to connect to the Town sewer at the time of lease renewal. Installation of municipal sewer will remove these discharges from within the Zone of Contribution (Zone 2) to the Maher well field municipal drinking water wells. The proposed project will include the installation of approximately 5,700 feet of gravity fed sewer line extending to each existing structure, and along the East Ramp to accommodate future growth. Gravity fed sewer lines will discharge to a 7,000 gallon pumping station located approximately 200 feet southeast of the Hexagon hangar. Approximately 2,350 feet of 4-inch force main will connect the pumping station to existing gravity sewer, located on the southern side of the Runway 15/33

runway protection zone (Figure 1). The proposed 7,000 gallon pumping station will feature a natural gas/propane fired emergency backup generator and system alarm station.

Project Justification: The proposed project would eliminate the need for six on-site septic systems and accommodate future growth on the East Ramp. Completion of the proposed project will allow the Airport to meet the Cape Cod Commission Regional Policy Plan (RPP) performance requirements for both Potential Public Water Supply Areas (< 1 part per million (ppm) nutrient loading), and Wellhead Protection Areas (< 5 ppm nutrient loading) for proposed future growth. The project will also meet the Marine Water Recharge Area and Water Quality Improvement Area performance standards of the RPP. These requirements were evaluated in greater detail in the August 2010 Draft Master Plan, and are required by the Town of Barnstable Growth Management Department and Water Department.

Impact Of Denial/Postponement: Future growth on the East Ramp is contingent upon the completion of the proposed project, as the RPP performance standards require that future development maintain or improve upon existing conditions. Completion of the proposed project is a key element in realizing future growth opportunities on the East Ramp. The August 2010 Draft Master Plan accepted by the Town Growth Management Department requires the connection of existing structures to municipal sewer at time of lease renewal.

Project Cost Estimates: Design \$66,000

Project Estimated Completion Date: 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$66,000	Design
2014	\$595,000	Construction

Source of Funding: Not eligible for FAA reimbursement but eligible for MassDOT AD ASMP grant at 80%, with 20% local share from the Airport Enterprise Fund Reserves. Potential betterments, impact fees, user fees, development fees, connection fees, and so forth, to be developed.

Operating Budget Impact: None

PROJECT: AIR-13-05

DEPARTMENT PRIORITY: 5 of 18

Project Working Title: AIRPORT PASSENGER TERMINAL ENHANCEMENTS (CANOPY, IRRIGATION SYSTEM AND SIGN)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The new recently constructed Airport passenger terminal is a wonderful new fully operational structure, built on a limited budget, and is in need of new additional enhancements to ensure that we continue to operate a safe, comfortable and efficient facility for the benefit of our customers – whether they are passengers on our air carriers, or they are tenants that operate within the new terminal, or they are employees of the airport. In FY2013 we are recommending adding back into the project an exterior canopy over the Air Carrier areas, adding back into the project a new irrigation system, and adding an additional “Welcome to Cape Cod” sign on the air side of the terminal.

Project Justification: During the design and construction phases of the new passenger terminal, many items in the original design were either eliminated or reduced in size in order for the project to remain within budget – so-called design enhancements or a value engineering process. This included such items as a new baggage carousel, exterior canopies over the Air Carrier operating areas, extended ticketing baggage belt, polished concrete instead of terrazzo floors, brick exterior siding instead of terra cotta wall cladding, elimination of an expensive landscape irrigation system, and so forth. This project is to continuously review the operational status of the facility and as funding permits to add some of these amenities back into the new terminal and surrounding grounds, and add enhancements as necessary.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have adverse operational maintenance and passenger, tenant and employee quality of life consequences with regard to airport operations and maintenance. The lack of certain amenities may have future revenue generation impacts.

Project Cost Estimates: Construction: \$200,000

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$200,000	Project Design/Acquisition/Construction – Passenger Canopy, Irrigation System and Air Side Sign

Source of Funding: For FAA and MassDOT eligible issues, reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%); potential increase in Passenger Facility Charges (PFCs), and/or Customer Facility Charges (CFCs). For ineligible items, full cost would be born by the Airport Enterprise Fund Reserves.

Operating Budget Impact: None

Supplemental Information: The funds in FY2013 are planned for installation of an exterior canopy over the Air Carrier areas (estimate \$110,000); add new irrigation system (\$50,000) and for enhanced air side signage \$20,000), plus a \$15,000 contingency/engineering cost.

PROJECT: AIR-13-06	DEPARTMENT PRIORITY: 6 of 18
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Project Working Title: CONSTRUCT NEW FUEL FARM
Project Location: 480 Barnstable Road, Hyannis, MA

Project Description: Install three 20,000 gallon above ground jet fuel storage tanks.

Project Justification: The existing 20,000 gallon jet fuel underground storage tank (UST) (circa 1993) does not contain enough capacity to meet the fuel sales demand. Fuel demand has increased at the airport and is projected to continue to grow. Installation of the three (3) new storage tanks will meet the growing aviation demand and enhance service to airlines and general aviation customers. More importantly, these tanks will greatly reduce potential threat of ground water pollution, which is always a paramount environmental concern. The existing 20,000 gallon jet fuel UST was converted to jet fuel service in 1992. Following construction of the new storage tanks, the existing 20,000 gallon jet fuel UST will be removed from the ground. Due to the new location of the Jet-A fuel farm adjacent to Gate F, and the installation of the new airport access road, the north ramp 1980's T-Hangar will be demolished and the tenants relocated. The project has already been 100% permitted through the Cape Cod Commission Development of Regional Impact approved in January 2007.

Project Status: \$60,000 was approved in FY12 for the design of the new fuel farm which is ongoing.

Impact Of Denial/Postponement: Denial or Postponement will force continuation of our inability to meet on-time demand for jet fueling services, and increases the risks for fuel spills; continue to negatively impact required fuel settlement time before use; and will continue to increase our costs by purchasing fuel in smaller lots driving our retail costs upward with resultant loss of revenue by diversion of aircraft owners to other airports and degradation of service to our aircraft customers.

Project Estimated Completion Date: FY 2014

Project Cost/Description FY 2013 and Follow-On Years:

FY	Cost	Project Description/Components
2013	\$	
2014	\$810,000	Construction

Source of Funding: Airport Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%) ASMP Program.

Operating Budget Impact: None

PROJECT: AIR-13-07

DEPARTMENT PRIORITY: 7 of 18

Project Working Title: DESIGN AND CONSTRUCT THE MAIN TERMINAL RAMP – PHASE 2; AND AIRCRAFT DEICING PAD

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: This project includes: (1) Phase 2 of the design and reconstruction of the proposed main terminal aircraft parking apron of approximately 220,000 square feet and is sized to handle peak period activity, primarily by Cessna 402, various turbo-prop aircraft, and charter jet aircraft, including taxiways to and from the aircraft parking positions, which are now constrained, and will conform to FAA design standards in Advisory Circular No. 150/5300-13; and (2) the construction of a 43,000 square foot de-icing area is being provided for the de-icing of aircraft during winter conditions.

Project Justification: The terminal parking apron/ramp surfaces are over 20 years old, and have grossly exceeded their life expectancy. Pavement composition is inadequate to handle the current design of aircraft that frequent the airport, and shows serious signs of deterioration. All apron areas have been maintained through daily maintenance, and are in fair to good condition. The new apron is needed to improve the efficiency and safety of aircraft operations within the apron area, as well as, to meet existing and future aircraft space requirements. There are no adequate facilities on the airport to support aircraft deicing; however, current practices have been accepted until this project can be completed. An aircraft deicing pad will ensure deicing operations are environmentally safe and significantly decreases the potential for ground water contamination.

Project Status: Phase 1 Construction of New Terminal Aircraft Parking Ramp will be completed in FY2012.

Impact Of Denial/Postponement: To deny or postpone funding of this capital project will have a negative impact on airport operations, aircraft safety, passenger comforts, and affected security initiatives. Any substantial delay in design and construction of Phase 2 of the Main Terminal ramp, and construction of the Aircraft deicing area, will result in a loss of revenue, and an unfavorable economic impact on the Town of Barnstable. In addition, it will seriously affect the safety of aircraft operating on the ramps and taxiways, and could also jeopardize the safety of aircraft and passengers. Denial of a deicing pad will seriously

hinder safe aircraft operations during winter conditions and will increase the threat for ground water contamination.

Project Time Estimates: Design and Construction FY2014

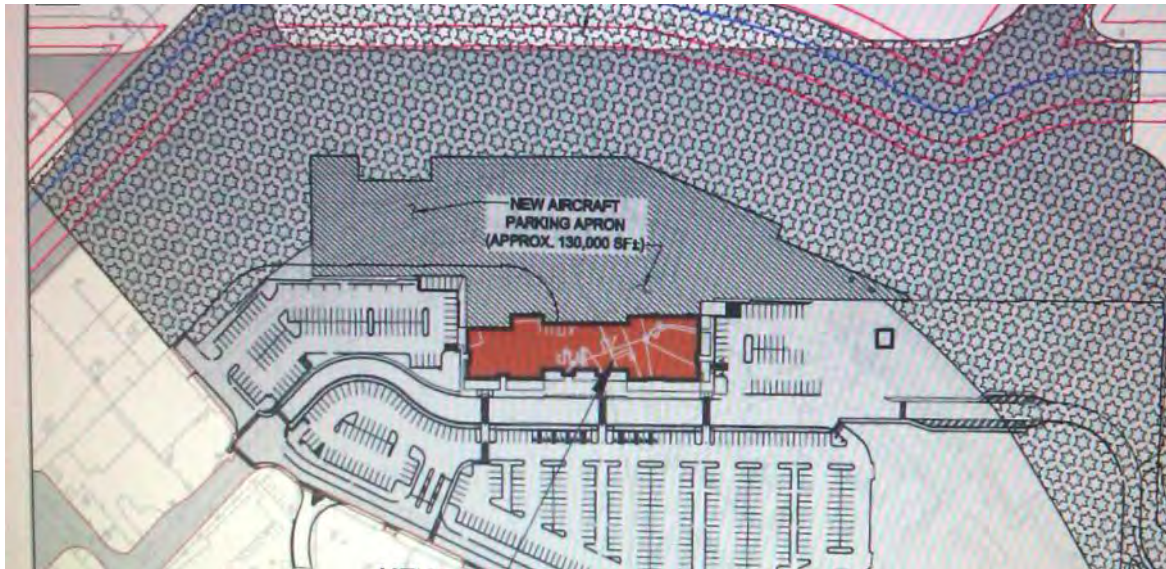
Project Estimated Completion Date: FY 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$4,200,000	Design and Construction

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None



PROJECT: AIR-13-08	DEPARTMENT PRIORITY: 8 of 18
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Project Working Title: DESIGN AND CONSTRUCT TAXIWAY ALPHA FROM TAXIWAY CHARLIE, AND RELOCATION OF TAXIWAY ALPHA FROM TAXIWAY DELTA TO THE END OF RUNWAY 15

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The current taxiway Alpha is not in compliance with airport design criteria. The current layout of the taxiway has been permitted by the Federal Aviation Administration (FAA) due to constraints previously imposed by commercial properties abutting the airport. Necessary abutting properties outside the airport have been acquired to complete the relocation and reconstruction and it is now necessary to bring "Taxiway Alpha" into compliance with FAA separation criteria requirements from taxiway Delta to the approach end of Runway 15.

Project Justification: This reconstruction project is the next step in a multi-year process to acquire necessary abutting properties, and correct the alignment of Taxiway Alpha to bring it into compliance

with the FAA airport layout and separation criteria requirements. It should also be noted that realignment of the taxiway is a significant safety enhancement for aircraft operations affecting runways 15 and 33. Project should run concurrently with Phase 2 of Main Terminal Ramp Reconstruction project.

Impact Of Denial/Postponement: The inability to complete this project will negatively hinder safe airport operations, and prolong non-compliance with federal operating guidelines. In addition, aircraft and vehicular ground safety would be negatively affected due to continued decreased separation standards.

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$2,800,000	Permit, Design and Construct

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 9%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-13-09	DEPARTMENT PRIORITY: 9 of 18
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Project Working Title: AIRPORT UTILITIES GIS SURVEY
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Airport’s utilities infrastructure systems were originally built in the 1940’s and have been upgraded multiple times over the subsequent decades. There is a need to collate all historic construction and engineering data into a comprehensive data base, with controlled GIS surveys of above and below-ground systems. This project will include the survey and data collection of all runway, taxiway, apron and airfield utilities, including landside utilities for all buildings, parking facilities, and access roads onto a comprehensive GIS database, compatible with FAA and Town needs.

Project Justification: The present utility systems are not adequately researched or surveyed, which leads to accidental utility damage despite efforts to adequately identify and locate them prior to any construction. This project will reduce hazards and risks during reconstruction of airport projects, and reduce engineering and potential repair costs in the future.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have safety consequences with regard to airport operations.

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$300,000	Project Design/Completion

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact: None

Supplemental Information: During the recent airport improvement projects, undetected and unknown utility lines and FAA telecommunications and airport aids to navigation lines were discovered after the commencement of construction that caused costly delays and emergency repairs in the interests of safety. This is a continuing problem with almost every construction project at the airport. This project will identify these utilities and telecommunication lines in advance as a preventative measure.

PROJECT: AIR-13-10	DEPARTMENT PRIORITY: 10 of 18
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Project Working Title: FEDERAL AVIATION ADMINISTRATION (FAA) FEDERAL AVIATION REGULATION (FAR) PART 150 NOISE EXPOSURE MAP UPDATE

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: This project would update the original 1987 FAA FAR Part 150 noise compatibility study and noise exposure maps approved by the FAA in 1989; and it would update the Barnstable Municipal Airport (BMA) Noise Studies conducted in 1998/99.

Project Justification: The goal of the Barnstable Municipal Airport (BMA) noise mitigation program is to minimize the environmental impact of noise from airport operations, increasing the degree of compatibility between the airport and its neighbors through implementation of noise and land use mitigation measures that are practical for use consistent with the well being of the inhabitants of this region. The noise exposure maps will provide current “average day-night noise exposure” contours (Ldn) which can also be used for approved FAA noise mitigation measures if applicable, and as a guide for present and future land use planning. This project will help the BMA meet these goals and will provide an updated factual basis for discussions regarding noise exposures; it will focus on practical options to address issues of primary concern; and it will include public involvement. These recommended “voluntary” noise studies are the most likely to receive FAA approval for cost sharing.

Impact Of Denial/Postponement: To deny or postpone funding of this capital project, noise complaints will continue, and the BMA will be seen as unresponsive to the inhabitants of the region. In addition, the BMA will have missed an opportunity to fine tune voluntary flight paths, and other noise reduction and flight safety measures.

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$75,000	Complete Noise Exposure Mapping

Source of Funding:

Funding by FAA (90%), MassDOT AD (5%), and local share (5%) from airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-13-11	DEPARTMENT PRIORITY: 11 of 18
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Project Working Title: RUNWAY AND TAXIWAY CRACK REPAIR PROGRAM

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Until the airport's two runways and taxiways are reconstructed, they will require an annual condition survey and localized repairs to cracks in the pavement as a continuous maintenance task. This will preserve the structural integrity and extend the service life of the runways and taxiways.

Project Justification: The pavement of the airport's two primary runways and all taxiways requires crack repair maintenance to avoid structural deterioration and failure. Spalling pavement creates a safety concern for aircraft operations due to the ingestion of loose chunks of asphalt debris, known as Foreign Object Debris (FOD). This is a potentially serious problem for an airport such as Barnstable, which services many daily operations by turbine and propeller-driven aircraft which are susceptible to FOD damage to engine intakes, turbine blades, and propeller blades.

Project Status: Original appropriation of \$500,000 was reduced due to the availability and completion of a MassDOT AD funded state-wide crack repair program in FY2011. Remainder of funding was used to continue crack sealing and repair program.

Impact of Denial/Postponement: To deny or postpone funding of this continuing capital project will have grave flight safety consequences with regard to aircraft operations; resulting in an increased risk of damage to on-airport aircraft operations, with resultant equipment damage and safety-of-flight hazards.

Project Estimated Completion Date: 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$	
2014	\$100,000	Construction
2015	\$100,000	Construction
2016	\$100,000	Construction
2017	\$100,000	Construction

Source of Funding: Reimbursable funding: FAA AIP Grant funding at 90%; MassDOT 5%; BMA 5%. Or use MassDOT Airport Safety and Maintenance (ASMP) funding at 80% state and 20% local share. Potential additional MassDOT state-wide funding at 100%.

Operating Budget Impact: Reduction in maintenance expenses



Project Working Title: PERMITTING, DESIGN, REHAB AND EXTEND EAST RAMP
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Airport’s East Ramp off the old Mary Dunn Way will require future reconstruction and expansion to meet future general aviation and corporate aircraft parking needs. This project will rebuild and expand the existing East Ramp, providing adequate space for the safe maneuvering and parking of the larger-wingspan corporate jets that make up the fleet that has begun using the airport. This project is incorporated in the FAA approved ALP and is included in the Draft Airport Master Plan, EIR and Development Agreement with the Town and the Cape Cod Commission.

Project Justification: The pavement of the East Ramp has started deteriorating and will require reconstruction to prevent operational safety concerns from pavement failure and FOD damage to aircraft. The ramp will also require expansion to provide safe maneuvering space and adequate parking area for the larger-wingspan corporate aircraft that have become more frequent users of the airport.

Impact of Denial/Postponement: A postponement of future funding for this capital project will have flight safety consequences with regard to airport operations; and will adversely affect the ability of pilots to prevent avoidable on-airport taxiing collisions with resultant significant aircraft damage and potential injuries.

Project Estimated Completion Date: 2015

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$600,000	Permitting and Design
2016	\$4,000,000	Construction

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact: None

Project Working Title: DESIGN AND RECONSTRUCT TAXIWAY CHARLIE
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 taxiway Charlie and its aircraft run-up area.

Project Justification: The reconstruction project will allow taxiway Charlie and the aircraft run-up area to be designed and constructed to comply with ongoing FAA safety area standards, and correct deficiencies within the runway approach and departure environment. The current design and operation of taxiway Charlie and the aircraft run-up area must be completed in order to comply with FAA Part 77

airspace restrictions and terminal instrument procedures (TERPS) criteria. New FAA guidance has mandated the required changes.

Impact Of Denial/Postponement: Denial of postponement of this project will cause the airport to be non-compliant with FAA airport design and layout criteria. In addition, failure to comply and complete this project puts the airport in jeopardy for non-receipt of additional federal Airport Improvement Program (AIP) entitlement funds for airport capital improvements.

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$2,300,000	Permit, Design and Construct

Source of Funding: Reimbursable Funding by FAA (AIP and Discretionary 90%), MassDOT AD (5%), and local share (5%) airport enterprise funds.

Operating Budget Impact: None

PROJECT: AIR-13-14	DEPARTMENT PRIORITY: 14 of 18
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Project Working Title: DESIGN AND CONSTRUCT NEW T-HANGAR

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Design and construct a new 6-bay nested T-hangar to provide additional hangar space to accommodate the needs of general aviation at the Barnstable Municipal Airport (BMA). The T-hangar would be constructed of metal with a concrete foundation and with bi-fold doors for aircraft access to the east ramp.

Project Justification: The new Airport access road to be constructed along the existing Barnstable Road alignment and extended to Airport Road, and the construction of the new fuel farm will require the existing airport T-hangar, located adjacent Gate F, to be demolished. Since this T-hangar services Airport users, the Airport desires to construct a new T-hangar on the East ramp to accommodate this loss of space. In addition, the BMA holds a waiting list for T-hangar space that fluctuates between 25 and 27 aircraft owners waiting for space, and projections for the future of General Aviation at the BMA forecasts an additional demand for hangar space. Revenues generated by the rental of the bays will help offset costs of construction and maintenance.

Impact Of Denial/Postponement: Impact of denial will further decrease potential BMA revenues, and will prevent the BMA from meeting the demands of airport users.

Project Estimated Completion Date: 2015

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$650,000	Design and Construct

Source of Funding: Enterprise Funds (20%) and reimbursable funding by MassDOT AD (80%)

Operating Budget Impact: Increased revenue



Existing T Hangar

PROJECT: AIR-13-15	DEPARTMENT PRIORITY: 15 of 18
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Project Working Title: DESIGN AND CONSTRUCT RELOCATED TAXIWAY BRAVO AND REBUILD TAXIWAY DELTA STUB

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Taxiways Bravo and the Delta “Stub” serve airport operations in accessing and egressing the runway and ramp system. To maintain safety for both aircraft and passengers, the taxiways must be maintained. The portions of taxiways B and D adjacent to the east ramp are more than 25 years old; typical pavement life is 20 years, and these areas are in serious need of repair. Many existing stresses on the pavement, such as a greater influx of heavier jet aircraft, and given the current level of deterioration, pose serious foreign object debris (FOD) damage to operating aircraft engines. In order to prevent FOD and provide a safe aircraft operating area, Taxiways B and the D stub must be totally reconstructed.

Project Justification: Given the level of deterioration and age of the pavement, a major rehab is needed in order to preserve safe aircraft operations. The pavement is inadequately designed for the weight-bearing capacity of larger private, military and corporate jet aircraft using the East ramp parking area. Taxiways Bravo and Delta, which access the East ramp, are the same age and show severe cracking and deterioration. All of these areas are being maintained on a regular basis, but the continual deterioration poses a serious FOD damage threat to aircraft engines, and could result in serious injury or death to personnel; and the potential for taxiway closure and loss of use due to structural taxiway damage.

Impact of Denial/Postponement: Denial or postponement of funding for this project will negatively affect aircraft operations; debris from the deteriorating asphalt increases potential for severe damage to aircraft engines and surrounding property and personnel; and potential shut-down of air operations due to structural damage to the taxiways.

Project Estimated Completion Date: 2016

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$0	
2016	\$3,500,000	Design and Construction

Source of Funding: FAA share: 90%, MassDOT AD share: 5% and Airport share: 5%.

Operating Budget Impact: Reduced maintenance costs

PROJECT: AIR-13-16	DEPARTMENT PRIORITY: 16 of 18
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Project Working Title: RUNWAY 15-33 AND TAXIWAY ECHO MAJOR RECONSTRUCTION
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Runway 15-33 (circa 1985) and Taxiway Echo (circa 1980) have exceeded their pavement's 20-year design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will include the design and reconstruction of the full length (5,252 feet) of the runway, in place, including in-pavement lighting and edge lights, and will extend the design life of the pavement for another two decades, and the reconstruction of adjacent Taxiway Echo.

Project Justification: Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 15-33 has exceeded the end of its useful life and is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, aircraft damage, or a closed runway that would create winter crosswind conditions on the remaining runway. Crack sealing and crack repairs have extended its useful life until now but further deterioration poses serious safety risks that must be addressed.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have flight safety consequences with regard to airport operations; and will increasingly affect the ability of pilots to operate on the runway, perform aircraft engine run-ups, and with potential loss of runway access during strong crosswinds and lessened flight safety.

Project Estimated Completion Date: 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$0	
2016	\$5,500,000	Design, Permitting, and Reconstruction

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact: Reduced maintenance expenses

PROJECT: AIR-13-17	DEPARTMENT PRIORITY: 17 of 18
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Project Working Title: LAND ACQUISITION FOR RW33 RUNWAY SAFETY AREA/PROTECTION ZONE (RSA/RPZ)

Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: The Airport and Town relocated Mary Dunn Way several years ago to enlarge the Runway Safety Area (RSA) at the end of Runway 33, per FAA's safety standards. Several parcels remain within the Safety Area, and the adjacent Runway Protection Zone (RPZ), which conflict with

FAA's safety standards. The Airport proposes to acquire these parcels which are incompatible land uses that pose a risk to aviation safety and a hazard to the flying public.

Project Justification: Several gas station and fuel storage parcels create incompatible land uses and hazards to aviation safety, as well as the safety of the public, due to their location within the RSA and RPZ at the end of Runway 33. The Airport proposes to acquire these parcels for open space protection within the RSA and RPZ, thereby enhancing public safety and complying with FAA's standards for compatible land use and RSA protection.

Impact of Denial/Postponement: To postpone funding of this capital project will continue the risk to public safety as a consequence of any aircraft overrun or undershoot that may impact one of the adjacent, incompatible land uses. An aircraft collision with any of the fuel storage facilities within the RSA or RPZ would have the potential for loss of life and significant injuries.

Project Estimated Completion Date: 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$0	
2016	\$2,500,000	Land Acquisition

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact: None

PROJECT: AIR-13-18 **DEPARTMENT PRIORITY: 18 of 18**

Project Working Title: RUNWAY 6-24 MAJOR RECONSTRUCTION
Project Location: 480 Barnstable Road, Hyannis, MA 02601

Project Description: Runway 6-24 has exceeded its pavement's 20-year (circa 1991) design life and will, therefore, be programmed by the FAA and State for a full reconstruction. This project will include the design and reconstruction of the full length (5,425 feet) of the runway, in place, including in-pavement lighting and edge lights, and will extend the design life of the pavement for another two decades.

Project Justification: Runway pavements are given a 20-year useful life by the FAA, after which time a major reconstruction is justified. Runway 6-24 will have exceeded its useful life by 2017, at which time it is scheduled for a rebuild. This will avoid hazards to flight safety from failing pavement, and potential aircraft damage.

Impact of Denial/Postponement: To deny or postpone funding of this capital project will have flight safety consequences with regard to airport operations; and will increasingly affect the ability of pilots to operate on the runway, due to the potential for aircraft damage and lessened flight safety.

Project Estimated Completion Date: 2017

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
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2013	\$0	
2014	\$0	
2015	\$0	
2016	\$0	
2017	\$5,000,000	Design, Permitting, Construction

Source of Funding: Reimbursable funding from FAA (90%), MassDOT Aeronautics (5%) and local share (5%)

Operating Budget Impact: None

2. MARINA ENTERPRISE FUND

PROJECT: CSER-13-01 (MEA)	DEPARTMENT PRIORITY: 1 of 3
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Project Working Title: DREDGE GATEWAY MARINA
Project Location: Hyannis Inner Harbor

Project Description: The project consists of dredging the area in the vicinity of the Gateway Marina located behind the Maritime Museum in Hyannis

Project Justification: The area around and leading to the floats at the Gateway Marina has become increasingly shallower. It is becoming more difficult to access the marina during periods of low water.

Impact of Denial/Postponement: Postponing the project will allow more shoaling to take place in the area containing the marina. This will make the area inaccessible except at the time of high tide.

Project Cost Estimates: Design: \$80,000

Project Estimated Completion Date: January 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$80,000	design/permitting
2014	\$0	
2015	\$0	
2016	\$750,000	construction

Source of Funding: Marina Enterprise Fund

Operating Budget Impact: Prevent loss of revenue due to non availability of slips

PROJECT: CSER-13-02 (MEA)	DEPARTMENT PRIORITY: 2 of 3
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Project Working Title: BARNSTABLE INNER HARBOR MAINTENANCE DREDGING
Project Location: Barnstable Inner Harbor

Project Description: Engineering analyses, surveying, environmental permitting, and final

design plans and specifications and dredging of the Barnstable Inner Harbor.

Project Justification: There has been an accumulation of material on the bottom of the inner harbor caused by shifting sands. The harbor was last dredged in the 1990's, resulting in shallow water depths that may lead to boat groundings and a negative economic impact on recreational and commercial boaters/businesses.

Impact of Denial/Postponement: The inner harbor boat basin will continue to accumulate sediment resulting in difficult navigation and the loss of use of harbor facilities by boaters. This will have significant impact to commercial fishing/boating businesses as well as the Town's collection of revenues from marina users.

Project Estimated Completion Date: April 2014

Project Cost/Description FY 2012 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$1,200,000	Inner harbor dredging

Source of Funding: General Fund and Enterprise Fund

Operating Budget Impact: Prevent loss of availability to access marina and resultant loss of revenue

PROJECT: CSER-13-03 (MEA)

DEPARTMENT PRIORITY: 3 of 3

Project Working Title: PRINCE COVE MARINA BULKHEAD REPAIR/REPLACEMENT
Project Location: The Marina at Prince Cove, Marstons Mills

Project Description: Begin the design and permit process for the repair of the bulkhead and ramp at the Marina at Prince Cove

Project Justification: MEA had a condition survey of the bulkhead prepared which indicated recommended a number of repairs to be implemented to maintain the stability and service life of the structure. Also, the report recommends that the concrete deck for the ramp along the north wall be reconstructed. Lastly, the report recommends drainage improvements be considered.

Project Status: \$20,00 approved in FY 12 for design and permitting

Impact Of Denial/Postponement: Possible bulkhead failure, loss of revenue, inability to rent slips and use marina.

Project Cost Estimates: Construction \$ 450,000.00

Project Estimated Completion Date: April 2015

Project Cost/Description FY 2012 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$0	
2015	\$450,000	Repair/Construction

Source of Funding: Bonding through the Marina Enterprise Fund would be the main source of funding.

Operating Budget Impact: Prevents loss of revenue from slip rentals

3. SOLID WASTE ENTERPRISE FUND

PROJECT: DPW-13-01 (SOLID WASTE)	DEPARTMENT PRIORITY: 1 of 3
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Project Working Title: TRANSFER STATION SUPPORT BUILDING EMERGENCY GENERATOR

Project Location: 45 Flint Street, Marstons Mills

Project Description: Installation of a new standby generator and related wiring system. The Solid Waste Support Building was constructed last year. It houses the DPW emergency response group stationed in the westerly portion of Town. The proposed generator will provide electrical power for communications for the full facility and staff during emergency storm conditions.

Project Justification: DPW operations during storm conditions depend on its ability to respond to community needs from this facility. The building is utilized 24/7 during such emergencies. The new generator is essential if the facility is to continue providing full service during major power outages and during emergency situations. We need to make sure it can operate effectively & efficiently serving the needs of the community. After storm events this facility must remain operational as the residents will want to dispose of debris immediately after such events.

Impact of Denial/Postponement: Without a generator, the entire emergency center and solid waste operation could be compromised without power for communications, heating, air conditioning and computer operations.

Project Cost Estimates: Design: \$11,532 Construction: \$64,064

Project Estimated Completion Date: Winter, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$75,596	Design + Construction of emergency generator

Source of Funding: Solid Waste Enterprise Fund

Operating Budget Impact: None

PROJECT: DPW-13-02 (SOLID WASTE)	DEPARTMENT PRIORITY: 2 of 3
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Project Working Title: TRANSFER STATION MAINTENANCE GARAGE EMERGENCY GENERATOR

Project Location: 45 Flint Street, Marstons Mills

Project Description: Installation of a new standby generator and related wiring system.

Project Justification: DPW operations during storm conditions depend on its ability to respond to community needs from this facility. The building is utilized 24/7 during such emergencies. The new generator is essential if the facility is to continue providing full service during major power outages and during emergency situations. We need to make sure it can operate effectively & efficiently serving the needs of the community. After storm events this facility must remain operational as the residents will want to dispose of debris immediately after such events.

Impact of Denial/Postponement: Without a generator, the entire emergency center and solid waste operation could be compromised without power for communications, heating, air conditioning and computer operations.

Project Cost Estimates: Design: \$10,090 Construction: \$56,056

Project Estimated Completion Date: Winter, 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$66,146	Design + Construction of emergency generator

Source of Funding: Solid Waste Enterprise Funds

Operating Budget Impact: None

PROJECT: DPW-13-03 (SOLID WASTE) DEPARTMENT PRIORITY: 3 of 3

Project Working Title: **CONTAINER ROLL OFF TRUCK**
Project Location: Solid Waste Division Marstons Mills

Project Description: Purchase One (1) Roll off Truck

Project Justification: The Roll off truck at this Division is more than 20 years old, it is no longer safe for road use and therefore is a yard vehicle only. When this vehicle breaks down we have to hire out moving containers around the yard. This purchase will also allow us to haul containers to the Yarmouth Transfer station when needed and possibly eliminating private hauling altogether. Having these options could save a possible \$55,000 in hauling costs.

Impact of Denial/Postponement: Continue to pay private hauling fees. If existing truck breaks down we have to wait and pay for a contractor to move containers resulting in household trash having to stay on site until moved.

Project Estimated Completion Date: FY 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$ 0	
2014	\$180,000	Complete roll off truck

Source of Funding: Solid Waste Enterprise Fund

Operating Budget Impact: None

Source of Funding: Water Supply Capital Reserve, User Fees, SRF (if project qualifies)

Operating Budget Impact:

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2013	0	\$ 0	\$0	\$95,000	\$
2014	0	\$ 0	\$0	\$190,000	\$
2015	0	\$ 0	\$0	\$285,000	\$
2016	0	\$ 0	\$0	\$380,000	\$
2017	0	\$ 0	\$0	\$475,000	\$

Supplemental Information: This is an annually recurring program

PROJECT: DPW-13-02 (WATER SUPPLY)	DEPARTMENT PRIORITY: 2 of 6
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Project Working Title: DESIGN WATER MAIN LOOPING AND CONNECTION FROM HIGHLAND STREET TO COOK CIRCLE

Project Location: Drinking water distribution system for Hyannis, Hyannis Port and West Hyannis Port

Project Description: This water works project will provide for looping the water main from Highland Street to Cook Circle with 2000 feet of new ductile iron water main.

Project Justification: This project was recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan, Table 9-2; phase A-8.

Impact of Denial/Postponement: Water quality and fire flow capacity will continue to deteriorate over time, impacting and limiting water supply availability for existing customers and during emergencies.

Project Cost Estimates: Design: \$54,000

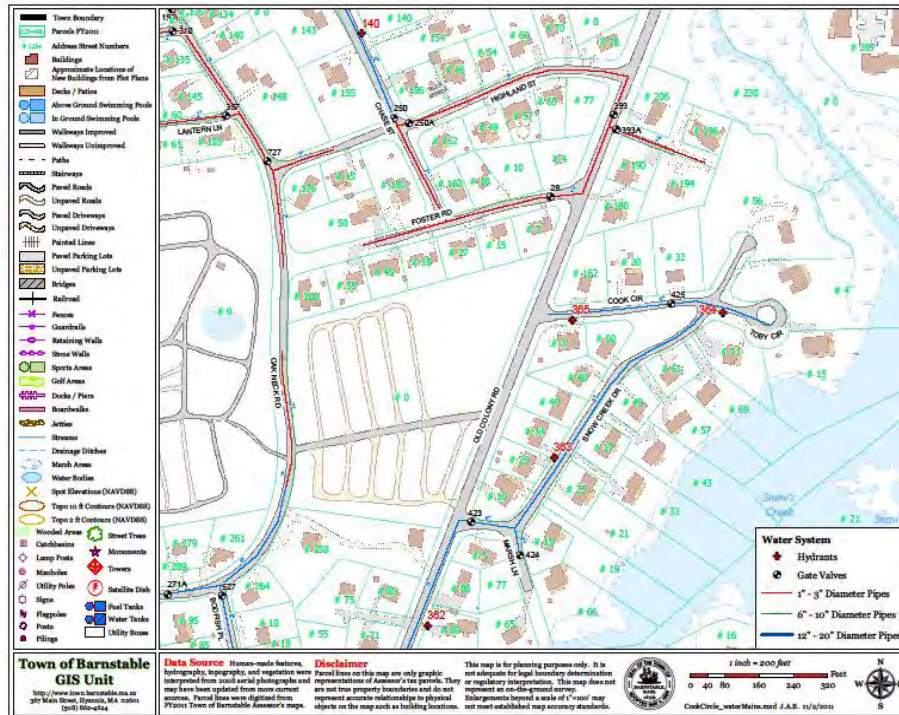
Project Estimated Completion Date: June 2013

Project Cost/Description FY 2013 and Follow-On Years:

FY	Cost	<u>Project Description/Components</u>
2013	\$54,000	Design
2014	\$540,000	Construction

Source of Funding: Water Supply Capital Reserve, User Fees, SRF (if project qualifies)

Operating Budget Impact: None



PROJECT: DPW-13-03 (WATER SUPPLY) DEPARTMENT PRIORITY: 3 of 6

Project Working Title: CONSTRUCTION OF A NEW 8" WATER MAIN ON SCUDDER AVENUE IN HYANNIS PORT FROM GREENWOOD AVENUE TO CRAIGVILLE BEACH ROAD.

Project Location: Drinking water distribution system for Hyannis, Hyannis Port and West Hyannis Port

Project Description: This water works project will replace the existing 6" unlined, cast iron water main on Scudder Avenue installed around 1927 with a ductile iron, cement lined water main.

Project Justification: This project was recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan, Table 9-2; phase A-7 to increase fire flows and improve water quality.

Impact of Denial/Postponement: Water quality and fire flow capacity will continue to deteriorate over time, impacting and limiting water supply availability for existing customers and during emergencies.

Project Cost Estimates: Construction: \$1,070,000

Project Estimated Completion Date: December 2014

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$1,070,000	Construction

Source of Funding: Water Supply Capital Reserve, User Fees, SRF (if project qualifies)

Project Working Title: HYANNIS PORT WELL REPAIR**Project Location:** Drinking water distribution system for Hyannis, Hyannis Port and West Hyannis Port**Project Description:** This project will construct a test well and provide for the design and permitting for a new well adjacent to the existing well which was found to be in deteriorated condition.**Project Justification:** This project was recommended by Tighe & Bond Engineers, Maher Well Services and United Water, our operations contractor after standard, well rehabilitation found that the well had major corrosion problems between the well casing collar and the screen. A temporary repair was done in December 2010.**Impact of Denial/Postponement:** Water pumping capacity could be impacted if the temporary repair fails and limiting water supply availability for existing customers and during emergencies.**Project Cost Estimates:** Design and permitting: \$10,000 Construction: \$70,000**Project Estimated Completion Date:** December 2013**Project Cost/Description FY 2013 and Follow-On Years:**

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$80,000	Design/Permitting/Construction

Source of Funding: Water Supply Capital Reserve, User Fees, SRF (if project qualifies)**Operating Budget Impact:** None**Project Working Title:** DESIGN OCEAN STREET WATER MAIN**Project Location:** Drinking water distribution system for Hyannis, Hyannis Port and West Hyannis Port**Project Description:** This water works project will provide for the upgrade of the water main on Ocean Street from Main Street to Channel Point Road in conjunction with the Town's plans for the area.**Project Justification:** This project was recommended by Weston & Sampson Engineering, Inc. in their April 2007 Master Plan, Table 9-2; phase A-6.**Impact of Denial/Postponement:** Water quality and fire flow capacity will continue to deteriorate over time, impacting and limiting water supply availability for existing customers and during emergencies.**Project Cost Estimates:** Design: \$67,600**Project Estimated Completion Date:** January 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$67,600	Design
2014	\$676,400	Construction

Source of Funding: Water Supply Capital Reserve, User Fees, SRF (if project qualifies)

Operating Budget Impact: None

PROJECT: DPW-13-06 (WATER SUPPLY) DEPARTMENT PRIORITY: 6 of 6

Project Working Title: EMERGENCY GENERATOR PURCHASE
Project Location: Drinking water distribution system for Hyannis, Hyannis Port and West Hyannis Port

Project Description: This expenditure will provide for full ownership of two(2) emergency power generators leased and installed by the County after the discovery of Perchlorate contamination at the Barnstable County Fire Training Academy.

Project Justification: This expenditure was recommended by the Hyannis Water Board during their October 11, 2011 regularly scheduled meeting.

Impact of Denial/Postponement: The Town would continue to pay monthly lease payments including interest until September 2013.

Project Cost Estimates: Total amount owed by the Town is \$96,502. It is proposed to transfer \$14,050 out of project # 09-090 well rehab and \$70,226 out of project #11-136 air stripper repair. This leaves \$12,226 to be transferred out of reserves.

Project Estimated Completion Date: July 2012

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$96,502	Emergency generator purchase

Source of Funding: Water Supply Capital Reserve, Transfer of available balances from completed CIP Projects

Operating Budget Impact: None



Leased Generator

4. WASTE WATER ENTERPRISE FUND

PROJECT: DPW-13-01 (WASTE WATER)

DEPARTMENT PRIORITY: 1 of 7

Project Description: UPGRADE/REPLACE THE EXISTING STAFF LOCKER ROOM.
Project Location: Sewer Plant 617 Bearses Way, Hyannis, MA

Project Justification: The locker room serves as a changing, showering, lunch and division meeting center. Given the nature of wastewater operations, the staff needs a facility in order to clean up after work. The present locker room is a trailer put into service in the early 1980's and moved in 1997. The trailer is a conglomeration of parts and is of dubious construction. At 25 years old it is the end of its serviceable life. During the summer of 2010, the entire front exterior wall was replaced, including its siding, plywood, studs, insulation and interior wallboard, all of which had rotted away. See photo below.

Impact of Denial/Postponement: The building will continue to demand expenditures to keep it up. The front wall cost \$5,000 to replace this past summer. The other four walls are in equally bad shape and will cost an estimated \$15-20,000 for repairs. The HVAC system is near failure and would cost \$15,000 for upgrades. The floor joists and sills are rotting. The building could easily collapse in a good wind storm. The main steel I beams supporting the structure were damaged and twisted in the 1997 move and cannot be repaired. Rebuilding on the present frame cannot be done.

Project Cost Estimates: Design: \$28,000

Project Estimated Completion Date: 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$30,000	Design & Bid
2014	\$160,000	Construct

Source of Funding: Wastewater Enterprise Reserve



Project Working Title: BEARSE’S WAY VACUUM STATION, BACK UP PUMP
Project Location: Bearse’s Way vacuum pump station

Project Description: Back-up Pump for existing Bearse’s Way vacuum station, 3rd vacuum pump.

Project Justification: The present pump station is now seven years old and is in good operating order. However there is no back up pump. During school vacations and the summer season the two pumps, now in operation, are both forced to run together at times to maintain the necessary vacuum. If one vacuum pump should fail the system will fail. The concern is that as the equipment ages one of the vacuum pumps will fail. The present plan is to quickly install a spare pump that is stored on site, purchased FY2009, this would take a day or two. This procedure is too problematic to maintain reliable service to the customer base. The Cape Codder, Holiday Inn, Cape Crossroads Condominiums, Christmas Tree complex and Marriott Hotel are all on this system and therefore demand a reliable disposal system.

Impact of Denial/Postponement: Eventually one of the existing vacuum pumps will fail and possibly result in back-up and overflow of raw sewage to homes, businesses, and roadways resulting in a health hazard.

Project Cost Estimates: Design: \$20,000

Project Estimated Completion Date: 2015

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$24,000	Design and bid
2014	\$80,000	Construct third vacuum pump.

Source of Funding: Wastewater Enterprise Reserve

Operating Budget Impact: None

Project Working Title: GENERATOR STORAGE BUILDING
Project Location: Sewer Plant 617 Bearses Way, Hyannis, MA

Project Description: The Water Pollution Control Division has 6 large portable generators which must be available for use throughout the community to provide emergency power for the sewer pump system and need to be stored in a secure and dry area and be ready for use during poor weather.

Project Justification: Currently the generators are stored in poor conditions which can deteriorate the equipment and thus not be available for use.

Impact of Denial/Postponement: Equipment will be poorly protected.

Project Cost Estimates: Design: \$23,000

Project Estimated Completion Date: 2013

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$23,000	Design & bid
2014	\$108,800	Construct generator storage building

Source of Funding: Wastewater Enterprise Reserve

Operating Budget Impact: Expenses - \$5,000 Heat, lights, hot water, maintenance.

Estimated Project Costs

Sq. Ft. Area			960.00	
Cost/ Sq. Ft.			\$50.00	\$48,000.00

Hard Costs

Construction

	range	actual		
Base Building				\$48,000.00
Foundation & Site Work				\$30,000.00
Boxed Eave/ Vertical Roof				\$1,125.00
Additional Leg Height				\$660.00
Close, Left, Right, Back & Front				\$4,170.00
2 Doors 34 x 72 Side entry				\$400.00
2 Garage Doors 10x10 on ends of Bldg				\$1,000.00
6 Windows 30x27				\$1,050.00
14 Braces 3 Feet				\$280.00
Fees				\$81.33
Subtotal				\$86,766.33
General Conditions	7-12%	9%		\$7,808.97
Subtotal				\$94,575.30
Contingency	15%	15%		\$14,186.29
Subtotal				\$108,761.59
Escalation	2-6%	0%		\$ -
Total Estimated Construction Hard Cost				\$108,761.59

Soft Costs

Design

	range	actual		
Design Fees	6-10%	8%	\$ -	
Other Fees		i.s.	\$10,000.00	
FF&E		i.s.	\$2,000.00	
Project Management	5%	5%	\$5,438.08	
Contingency	5%	5%	\$5,438.08	
Total Estimated Project Soft Cost			\$22,876.16	

Total Estimated Project Cost

\$131,637.75

Project Working Title: WALLS AND TANKS, RESURFACE AND PAINTING.
Project Location: 617 Bearnse's Way, Hyannis

Project Description: Evaluate Pretreatment building concrete walls and channels. Evaluate the clarifier steel work. Resurface and paint as necessary.

Project Justification: During the plant upgrade the Pretreatment building walls were briefly evaluated and found to be in fair condition. Previous resurfacing is still in place but will need upgrading. The clarifier steel work and several of the clarifiers have moderate to severe rusting. 4 of the 5 clarifiers have been repainted, several twice. However the rust is prevalent and persistent. Repainting the clarifiers has proved to be a questionable exercise, like car rust it perseveres. This evaluation would look at alternatives to save the substantial investments in the clarifier steel work.

Project Status: During the Facility Upgrade project the Pretreatment building walls were found to be in fair condition. The building is 1975 construction. In the 90's the walls were sealed with a coating that is still adhering but of unknown sealing and protective condition.

Impact of Denial/Postponement: Lost of present concrete walls and steel work necessitating complete replacement.

Project Estimated Completion Date: 2016

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$240,000	Evaluate, paint walls and tanks

Source of Funding: Wastewater Enterprise Reserve

Operating Budget Impact:

<u>FY</u>	<u>No. Positions</u>	<u>Salary Costs</u>	<u>Benefits</u>	<u>Expenses</u>	<u>Total</u>
2014	0.25 person	\$20,000	\$7,000	\$10,000	\$37,000

Project Working Title: T.O.C. AND <4MG/L TOTAL NITROGEN EFFLUENT EVALUATION.
Project Location: 617 Bearnse's Way

Project Description: T.O.C. Effluent Limit of 3mg/l for groundwater discharge to a zone 2 in 2 year travel. >.4 mg/l TN estuary limit, pharmaceuticals, personal care products, endocrine disruptors evaluation.

Project Justification: T.O.C. effluent of 3mg/l is a State regulation, at this time not enforced. Presently conservation groups are initiating lawsuits that increase the probability on State enforcement.

Impact of Denial/Postponement: Violation of State regulation.

Project Estimated Completion Date: 2018

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$800,000	Design compliance to 3 mg/l T.O.C.
2015	\$0	
2016	\$24,000,000	Construct T.O.C. removal process at the WPCF

Source of Funding: Wastewater Enterprise Reserve

Operating Budget Impact: Increased revenue from higher user fees

PROJECT: DPW-13-06 (WASTE WATER)

DEPARTMENT PRIORITY: 6 of 7

Project Working Title: SEWER COLLECTION SYSTEM EXPANSION, CONSTRUCTION.

Project Location: Areas of Concern, Wequaquet Lake Area

Project Description: This is a multi-year project involving the design and construction of sewer collection systems for sewerage of Areas of Concerns (AOC's) identified by the Wastewater Facilities Plan. Design work funded by previous appropriations is ongoing for the Wequaquet Lake Area.

Project Justification: The Wastewater Facilities Plan has identified several areas where there are public health and environmental concerns that are caused by failing septic systems and/or dense population concentration in Zones of Contribution to public water supply wells. The study has also done a cost effective analysis of the least costly way to solve those problems. The Areas of Concern that are listed on the five year CIP projection are those that have been determined to be best solved by sewerage and connection to the Hyannis Water Pollution Control Facility.

Impact of Denial/Postponement: By not proceeding with this project, the health of the citizens of Barnstable will be put at risk and the ability to safely utilize resources will be jeopardized.

Project Estimated Completion Date: June 2018

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$46,890,000	Sewering AOC CE4 (Lake Wequaquet Area)
2015	\$550,000	Design of CE1 (Long Beach, Craigville Beach Rds)
2016	\$5,500,000	Sewering of CE1
2017	\$590,000	Design of CE2 (Avenues)

Source of Funding: To be determined

Operating Budget Impact: Revenue and expenses unknown at this time

PROJECT: DPW-13-07 (WASTE WATER)

DEPARTMENT PRIORITY: 7 of 7

Project Working Title: SEPTAGE BUILDING CAPACITY UPGRADE.

Project Location: 617 Bearse's Way, Hyannis

Project Description: Evaluate future capacity and operation of the septage building.

Project Justification: The septage building, built in 1990, will be twenty years old and at the end of its design life. The building processes 11,000,000 gallons of septage and over 12,000,000 in sludge and grease a year. The mechanical equipment, piping, structure all need to be assessed for future operations and expected increased flows.

The evaluation will also assess the present sludge disposal operation of trucking off site to incineration and also other options such as composting. The Town may also wish to include an assessment of regional sludge disposal and garbage commingling. This is an evaluation that would lead to a design.

The evaluation would also examine an upgrade to the septage building rag, rock, grease and grit removal systems. The present system is dangerous and odorous.

Impact of Denial/Postponement: The expansion of the sewers requires that the septage building be capable of processing all the septage and sludge generated in the future so that the building does not become a bottleneck in the future.

Project Estimated Completion Date: 2018

Project Cost/Description FY 2013 and Follow-On Years:

<u>FY</u>	<u>Cost</u>	<u>Project Description/Components</u>
2013	\$0	
2014	\$100,000	Evaluation septage building operation
2015	\$350,000	Design
2016	\$3,500,000	Construct building upgrade

Source of Funding: Wastewater Enterprise Reserve

Operating Budget Impact:

Revenue: \$700,000 septage revenue yearly
Expenses: \$400,000 building operation

FY	No. Positions	Salary Costs	Benefits	Expenses	Total
2013	2	\$150,000	\$50,000	\$200,000	\$400,000
2014	2	\$150,000	\$50,000	\$200,000	\$400,000
2015	2	\$150,000	\$50,000	\$200,000	\$400,000

APPENDIX A

FISCAL YEAR 2013 CAPITAL BUDGET APPROPRIATION ORDERS

APPROPRIATION AND LOAN ORDER 2012-083

Water Supply Enterprise Fund Capital Improvement Plan (2 / 3 vote)

ORDERED:

That the sum of **\$1,050,000** be appropriated for the purpose of funding the pipe replacement and upgrade program for the Hyannis Water System as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,050,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND LOAN ORDER 2012-084

Water Supply Enterprise Fund Capital Improvement Plan (2 / 3 vote)

ORDERED:

That the sum of **\$1,070,000** be appropriated for the purpose of Constructing a New 8" Water Main on Scudder Ave (Greenwood Ave to Craigville Beach Rd) as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, the Town Treasurer, with the approval of the Town Manager, is authorized to borrow **\$1,070,000**, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-085

Water Supply Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$54,000** be appropriated for the purpose of funding the Water Main Looping & Connection (Highland St to Cook Circle) as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$54,000** be transferred from surplus funds within the Water Supply Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-086

Water Supply Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$80,000** be appropriated for the purpose of funding the Design and Permitting of the Hyannisport Well Repair as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$80,000** be transferred from surplus funds within the Water Supply Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-087
Water Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$67,600** be appropriated for the purpose of funding the Design of the Ocean Street Water Main Upgrade as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$67,600** be transferred from surplus funds within the Water Supply Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-088
Water Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$96,502** be appropriated for the purpose of funding the Pay-off of a Lease for an Emergency Generator as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$14,050** be transferred from council order 2009-090, **\$70,226** be transferred from council order 2011-136, and that **\$12,226** be transferred from surplus funds within the Water Supply Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-089
Sewer Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$77,000** be appropriated for the purpose of funding the Project Design for Staff Locker Room Upgrades, the Bearses Way Vacuum Station Back-up Pump, and the Portable Generator Storage Building as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$77,000** be transferred from surplus funds within the Sewer Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-090
Airport Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$800,000** be appropriated for the purpose of funding the testing, design, and constructing of the Runway 6 Engineered Material Arresting System (EMAS) as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$800,000** be transferred from surplus funds within the Airport Enterprise Fund, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-091
Airport Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$400,000** be appropriated for the purpose of funding Runway 15 Visual Zone Clearing as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$400,000** be transferred from surplus funds within the Airport Enterprise Fund, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-092
Airport Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$400,000** be appropriated for the purpose of funding the Replacement of Snow Removal Equipment as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$400,000** be transferred from surplus funds within the Airport Enterprise Fund, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-093
Airport Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$66,000** be appropriated for the purpose of funding the Design of the East Ramp Sewer Extension as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$66,000** be transferred from surplus funds within the Airport Enterprise Fund, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPROPRIATION AND TRANSFER ORDER 2012-094
Airport Enterprise Fund Capital Improvement Plan (majority vote)

ORDERED:

That the sum of **\$200,000** be appropriated for the purpose of funding Airport Terminal Enhancements as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$200,000** be transferred from surplus funds within the Airport Enterprise Fund, and that the Airport Commission is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**APPROPRIATION AND TRANSFER ORDER 2012-095
Marina Enterprise Fund Capital Improvement Plan (majority vote)**

ORDERED:

That the sum of **\$80,000** be appropriated for the purpose of funding the Design and Permitting of the Gateway Marina Dredging as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$80,000** be transferred from surplus funds within the Marina Enterprise Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**APPROPRIATION AND TRANSFER ORDER 2012-096
Capital Trust Fund Capital Improvement Plan (2 / 3 vote)**

ORDERED:

That the sum of **\$3,250,000** be appropriated for the purpose of funding the repair of the Town's public roads and drainage systems as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager; and that to meet this appropriation, that **\$3,250,000** be transferred from available funds within the Town's Capital Trust Fund, and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

**APPROPRIATION AND TRANSFER ORDER 2012-097
Capital Trust Fund Capital Improvement Plan (2 / 3 vote)**

ORDERED:

That the sum of **\$1,879,000** be appropriated for the purpose of funding the following projects as outlined in the FY 2013 - FY 2017 Capital Improvement Plan as recommended by the Town Manager;

Emergency Center Generators (Highway & Landfill Office Buildings)	\$363,000
Hathaway's Pond Beach House Septic System Replacement	\$85,000
Town Hall Interior Improvements	\$153,000
Long Pond & Mystic Lake Water Quality Improvements	\$80,000
WB Community Center Septic System	\$50,000
Sidewalk Overlays	\$70,000
Centerville Community Building (Painting & fire escape)	\$80,000
Highway Building Roof Replacement	\$60,000
Project Design (School St. Bulkhead Repair, Snow's Creek Culvert, Bumps River Bridge Repair, Bay St. Ramp Repair, West Bay Breakwater Repairs, Old Town Hall & Trayser Museum)	\$345,000
MEA Building Septic System Replacement	\$55,000
Structures & Grounds Bldg (Septic System Design & Construct)	\$75,000
Ocean Street Parking Lot Improvements	\$115,000
School Facility Upgrades/Repairs	\$348,000

and that to meet this appropriation, **\$35,000** be transferred from available funds within the Town's Capital Trust Fund, and the following project balances totaling **\$1,844,000** be closed and transferred;

Council Order #	Project Name	Remaining Balance
2002-079	Boat Ramp Renovations	145
2005-043	Oyster Harbor Bridge Repairs	7,548
2007-148	Water Quality Study II	21,500
2007-149	West Bay Tower Repairs	6,323
2008-105	Demo Portable Classrooms	19,173
2008-107	Dredging	3,894
2001-087	Main St Hyannis Streetscape	3,160
2001-087	Walkway To The Sea	22,099
2001-087	Parking Lot Improvements	24,832
2001-087	Sewer Collection System Expansion Design	468,190
2002-080	Police Facility Addition	469
2002-080	Design & Specs HYCC	32,637
2002-080	Roundabout - Scudder/Smith/Marstons	145,377
2005-085	West Bay Bridge Repairs	2,380
2005-085	Police Facility Improvements	4,295
2005-085	School Facility Repairs & Improvements	5,907
2005-085	WB Comm Center Improvements	9,950
2005-085	200 Main St 2nd Floor Design	76,558
2006-096	School Improvements	4,096
2007-093	Lidar Survey	625
2007-095	Craigville Beachhouse	70,580
2007-095	Town Hall Improvements	84,461
2007-096	Coastal Discharge Mitigation	133,018
2007-097	Mystic Lake	1,637
2007-098	Pleasant St Dock Improvements	235
2007-099	School Facility Repairs	1,101
2007-099	School Safety Improvements	25,959
2008-019	Private Road Repairs	201,780
2008-108	Highway Division Complex	183
2008-108	Police Facility Fuel Tanks	24,545
2008-108	Town Hall Improvements	58,564
2008-109	Mystic Lake Alum Treatment	5,020
2008-110	School Maint/Repairs	6,941
2008-110	School Safety	58,956
2009-010	Dredging	43,167
2009-022	West Bay Bulkhead	47,464
2009-095	Athletic Facility Upgrades	123,390
2010-109	School Boilers	60,000
2009-069	Hyannis West Cleanup	37,840
	Total project balances to be returned	\$1,844,000

and that the Town Manager is authorized to contract for and expend the appropriation made available for these purposes and be authorized to accept any grants or gifts in relation thereto.

APPENDIX B CIP GOVERNING REGULATIONS

Charter of the Town of Barnstable – Section 6-5. Capital Improvements Plan

- (a) Preparation. The Town Manager shall, in conjunction with any committee established for such purpose, annually submit a capital improvement program to the Town Council at least thirty days prior to the date for submission of the operating budget; unless some other time is provided by ordinance.
- (b) Contents. The capital improvement plan shall include: (1) a clear summary of its contents; (2) an itemization of all capital improvements, including those of the school department, proposed to be undertaken during the next five fiscal years with supporting data; (3) cost estimates, methods of financing, and recommended time schedules; and, (4) the estimated annual cost of the operating and maintaining the facilities included.
- (c) Public Hearing. The Town Council shall publish in a newspaper of general circulation in the Town a summary of the capital improvement plan and a notice stating: (1) the times and places where entire copies of the capital improvement plan are available for inspection by the public; and, (2) the date, time, and place not less than fourteen days after such publication, when a public hearing on said plan will be held by the Town Council.
- (d) Adoption. At any time after the public hearing but before the first day of the last month of the current fiscal year, the Town Council shall by resolution adopt the capital improvement plan with or without amendment, provided that each amendment must be voted separately and then any increase in the capital improvement plan, as submitted, must clearly identify the method of financing proposed to accomplish this increase.

Chapter 241: Administrative Code

§241-18. Comprehensive Financial Advisory Committee.

- A. Term of office. There shall be a Comprehensive Financial Advisory Committee, consisting of nine members. The terms shall be for three years so arranged so an equal number shall expire each year.
[Amended 10-22-1998 by Order No. 99-023, Amended 11-06-2006 by Order No. 07-041]
- B. Authorities and responsibilities.
 - (1) The Comprehensive Financial Advisory Committee provides financial advice to the Town Council on the yearly operating budget for all Town agencies, includes the school budget as adopted by the School Committee.
 - (2) The Comprehensive Financial Advisory Committee provides financial advice to the Town Council and to the Town Manager on matters of long-range financial planning.
 - (3) The Comprehensive Financial Advisory Committee is responsible for advising the Town Manager on the annual preparation of the Town's capital improvement plan. It prepares a report to the Town Council on said annual capital improvement program and participates in public hearings called for review of this program.
- C. Interrelationships.
 - (1) Town Council: The Comprehensive Financial Advisory Committee interacts with the Town Council.
 - (2) Town Manager: The Comprehensive Financial Advisory Committee interacts with the Manager for the purpose of providing advice and exchanging information in matters of operational budgeting, capital budgeting, and long-term financial forecasting.

Appendix C – Debt Amortization Schedules

All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2013	Payments FY 2014	Payments FY 2015	Payments FY 2016	Payments FY 2017	Payments FY 2018	Payments FY 2019	Payments FY 2020	Payments FY 2021	Payments FY 2022
GENERAL FUND:													
Land Acquisition - Butaps Refunded	06/14/11	06/15/20	1,102,000	185,450	175,950	168,050	163,850	154,650	145,600	140,400	135,200	-	-
Land Acquisition - Affordable Housing	06/15/02	06/15/22	136,000	18,268	7,018	6,813	6,600	6,388	6,163	5,938	5,713	5,475	5,238
Land Acquisition - Hyannis Golf Course	02/15/07	02/15/26	748,000	62,975	61,375	59,775	58,175	56,575	54,975	52,975	50,975	49,375	47,775
Rt. 132 Easment	06/15/08	06/15/13	64,500	12,420	-	-	-	-	-	-	-	-	-
Land Acquisition - CAP	06/15/08	06/15/23	365,200	34,530	33,690	32,850	32,010	30,930	30,030	28,890	27,930	26,970	26,010
Subtotal Land Acquisition				313,643	278,033	267,488	260,635	248,543	236,768	228,203	219,818	81,820	79,023
Barnstable Middle School - Refunded 1	02/15/07	02/15/20	7,071,300	952,460	913,660	875,260	837,260	799,660	757,660	719,200	681,200	-	-
Barnstable Middle School - Refunded 2	02/15/07	02/15/20	1,548,520	205,900	199,700	193,500	182,300	176,300	165,300	158,050	150,800	-	-
High School Construction - Refunded	02/15/07	02/15/19	27,486,190	3,434,050	3,436,650	3,435,050	3,434,250	3,434,050	3,434,250	3,433,500	-	-	-
School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	6,700	6,550	6,450	6,300	6,150	6,000	5,800	5,600	5,400	5,200
BHMCS - Refunded Bond	08/15/01	09/15/14	8,340,062	883,188	836,981	306,525	-	-	-	-	-	-	-
High School Construction	06/15/03	06/15/23	162,000	12,750	12,400	12,000	6,600	6,400	6,200	6,000	5,800	5,600	5,400
School Remodeling 1	06/15/03	06/15/23	530,000	35,875	35,000	34,000	33,000	32,000	31,000	30,000	29,000	28,000	27,000
School Remodeling 2	06/15/03	06/15/23	442,000	28,700	28,000	27,200	26,400	25,600	24,800	24,000	23,200	22,400	21,600
School Health & Safety Improvements	02/15/07	02/15/26	478,000	38,911	37,911	36,911	35,911	34,911	33,911	32,661	31,411	30,411	29,411
School Facilities Repair	02/15/07	02/15/17	339,000	41,400	40,000	33,600	32,400	31,200	-	-	-	-	-
School Facilities Repair & Improvement	02/15/07	02/15/22	660,000	63,350	61,550	59,750	57,950	56,150	54,350	52,100	44,850	43,250	41,650
BHMCS Roof	02/15/07	02/15/27	910,000	73,474	71,674	69,874	68,074	66,274	64,474	62,224	59,974	58,174	56,374
MME Roof Replacement	02/15/07	02/15/26	750,000	63,185	61,585	59,985	58,385	56,785	55,185	53,185	51,185	49,585	47,985
School Upgrades 1	02/15/07	02/15/22	360,000	34,925	33,925	32,925	31,925	30,925	29,925	28,675	22,425	21,625	20,825
School Upgrades 2	02/15/07	02/15/27	150,000	14,164	13,764	13,364	12,964	12,564	7,164	6,914	6,664	6,464	6,264
BHS Cogeneration	02/15/07	02/15/17	500,000	60,000	58,000	56,000	54,000	52,000	-	-	-	-	-
School Facility Improvements	06/15/08	06/15/28	916,600	107,188	54,213	52,988	51,763	45,188	44,063	42,638	41,438	40,238	39,038
School Facility Improvements	06/15/10	06/15/14	1,000,000	260,000	255,000	-	-	-	-	-	-	-	-
School Building Improvements	06/15/10	06/15/30	800,000	67,409	66,554	65,700	64,845	62,708	56,298	55,337	53,413	52,260	51,106
School Improvement	06/14/11	06/15/26	487,000	50,488	49,438	48,738	47,688	46,638	45,588	39,188	37,988	36,788	35,588
School Equipment	06/14/11	06/15/16	193,000	44,100	42,900	37,100	36,050	-	-	-	-	-	-
School Parking Lot	06/14/11	06/15/21	250,000	32,500	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-
School Facilities Upgrades/Repairs I	06/14/11	06/15/16	65,000	16,350	15,900	10,600	10,300	-	-	-	-	-	-
School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	20,413	19,963	19,663	19,213	13,763	13,463	13,063	12,663	12,263	11,863
School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	20,963	20,513	20,213	19,763	19,313	18,863	18,263	12,663	12,263	11,863
School Facilities Upgrades/Repairs IV	06/14/11	06/15/21	332,000	44,700	43,650	42,950	41,900	40,850	34,800	33,600	32,400	31,200	-
School Facilities Upgrades/Repairs V	06/14/11	06/15/31	884,000	75,019	73,669	72,769	71,419	70,069	68,719	66,919	65,119	63,319	61,519
Subtotal Schools				6,688,159	6,520,898	5,654,362	5,271,158	5,149,246	4,981,011	4,909,314	1,394,791	545,237	472,683
Hyannis Streetscape 1	06/15/03	06/15/23	431,000	28,700	28,000	27,200	26,400	25,600	24,800	24,000	23,200	22,400	21,600
Hyannis Streetscape 2	06/15/03	06/15/13	828,000	82,800	-	-	-	-	-	-	-	-	-
Drainage	06/15/03	06/15/21	90,000	6,775	6,600	6,400	6,200	6,000	5,800	5,600	5,400	5,200	-
GIS Mapping	06/15/08	06/15/13	275,000	56,925	-	-	-	-	-	-	-	-	-
Sidewalks	06/15/08	06/15/13	250,000	51,750	-	-	-	-	-	-	-	-	-
Private Road Repairs	06/15/08	06/15/23	1,607,900	153,946	150,201	146,456	142,711	137,896	133,884	128,801	124,521	120,241	115,961
Roadway Improvements - CAP	06/15/08	06/15/13	222,800	45,540	-	-	-	-	-	-	-	-	-
Bay St. Planning - CAP	06/15/08	06/15/13	40,000	6,210	-	-	-	-	-	-	-	-	-
Bridge St. Planning - CAP	06/15/08	06/15/13	40,000	8,280	-	-	-	-	-	-	-	-	-
Bridge Repair	06/14/11	06/15/21	250,000	32,500	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-
Sidewalk Improvements	06/14/11	06/15/21	350,000	45,500	44,450	43,750	42,700	41,650	40,600	39,200	37,800	36,400	-
Traffic Calming	06/14/11	06/15/16	50,000	11,100	10,800	10,600	10,300	-	-	-	-	-	-
Baxter Neck Road's Neck Road - Private Way	06/14/11	06/15/26	350,000	36,225	35,475	34,975	34,225	33,475	32,725	31,725	30,725	29,725	23,725
Subtotal Public Ways				566,251	307,276	300,631	293,036	274,371	266,809	257,326	248,646	239,966	161,286

Appendix C – Debt Amortization Schedules

All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2023	Payments FY 2024	Payments FY2025	Payments FY2026	Payments FY2027	Payments FY2028	Payments FY2029	Payments FY2030	Payments FY2031	Grand Total
GENERAL FUND:													
Land Acquisition - Butaps Refunded	06/14/11	06/15/20	1,102,000	-	-	-	-	-	-	-	-	-	1,269,150
Land Acquisition - Affordable Housing	06/15/02	06/15/22	136,000	-	-	-	-	-	-	-	-	-	73,610
Land Acquisition - Hyannis Golf Course	02/15/07	02/15/26	748,000	46,125	39,445	37,975	36,488	-	-	-	-	-	714,983
Rt. 132 Easment	06/15/08	06/15/13	64,500	-	-	-	-	-	-	-	-	-	12,420
Land Acquisition - CAP	06/15/08	06/15/23	365,200	25,020	-	-	-	-	-	-	-	-	328,860
Subtotal Land Acquisition				71,145	39,445	37,975	36,488	-	-	-	-	-	2,399,023
Barnstable Middle School - Refunded 1	02/15/07	02/15/20	7,071,300	-	-	-	-	-	-	-	-	-	6,536,360
Barnstable Middle School - Refunded 2	02/15/07	02/15/20	1,548,520	-	-	-	-	-	-	-	-	-	1,431,850
High School Construction - Refunded	02/15/07	02/15/19	27,486,190	-	-	-	-	-	-	-	-	-	24,041,800
School Remolding - Asbestos 00-110 Refunded	06/14/11	06/15/22	50,000	-	-	-	-	-	-	-	-	-	60,150
BHMCS - Refunded Bond	08/15/01	09/15/14	8,340,062	-	-	-	-	-	-	-	-	-	2,026,693
High School Construction	06/15/03	06/15/23	162,000	5,200	-	-	-	-	-	-	-	-	84,350
School Remodeling 1	06/15/03	06/15/23	530,000	26,000	-	-	-	-	-	-	-	-	340,875
School Remodeling 2	06/15/03	06/15/23	442,000	20,800	-	-	-	-	-	-	-	-	272,700
School Health & Safety Improvements	02/15/07	02/15/26	478,000	23,380	22,540	21,700	20,850	-	-	-	-	-	430,833
School Facilities Repair	02/15/07	02/15/17	339,000	-	-	-	-	-	-	-	-	-	178,600
School Facilities Repair & Improvement	02/15/07	02/15/22	660,000	-	-	-	-	-	-	-	-	-	534,950
BHMCS Roof	02/15/07	02/15/27	910,000	54,518	52,628	50,738	48,825	46,913	-	-	-	-	904,208
MME Roof Replacement	02/15/07	02/15/26	750,000	46,335	44,655	37,975	36,488	-	-	-	-	-	722,503
School Upgrades 1	02/15/07	02/15/22	360,000	-	-	-	-	-	-	-	-	-	288,100
School Upgrades 2	02/15/07	02/15/27	150,000	6,058	5,848	5,638	5,425	5,213	-	-	-	-	128,468
BHS Cogeneration	02/15/07	02/15/17	500,000	-	-	-	-	-	-	-	-	-	280,000
School Facility Improvements	06/15/08	06/15/28	916,600	37,800	36,525	35,250	33,975	32,663	31,350	-	-	-	726,313
School Facility Improvements	06/15/10	06/15/14	1,000,000	-	-	-	-	-	-	-	-	-	515,000
School Building Improvements	06/15/10	06/15/30	800,000	49,856	48,606	47,260	45,913	44,519	42,981	41,538	40,000	-	956,304
School Improvement	06/14/11	06/15/26	487,000	34,388	33,188	32,175	31,125	-	-	-	-	-	569,000
School Equipment	06/14/11	06/15/16	193,000	-	-	-	-	-	-	-	-	-	160,150
School Parking Lot	06/14/11	06/15/21	250,000	-	-	-	-	-	-	-	-	-	265,750
School Facilities Upgrades/Repairs I	06/14/11	06/15/16	65,000	-	-	-	-	-	-	-	-	-	53,150
School Facilities Upgrades/Repairs II	06/14/11	06/15/26	179,000	11,463	11,063	10,725	10,375	-	-	-	-	-	199,950
School Facilities Upgrades/Repairs III	06/14/11	06/15/26	190,000	11,463	11,063	10,725	10,375	-	-	-	-	-	218,300
School Facilities Upgrades/Repairs IV	06/14/11	06/15/21	332,000	-	-	-	-	-	-	-	-	-	346,050
School Facilities Upgrades/Repairs V	06/14/11	06/15/31	884,000	59,719	57,919	56,400	54,825	53,138	46,450	44,850	43,250	41,650	1,146,738
Subtotal Schools				386,977	324,032	308,585	298,176	182,444	120,781	86,388	83,250	41,650	43,419,142
Hyannis Streetscape 1	06/15/03	06/15/23	431,000	20,800	-	-	-	-	-	-	-	-	272,700
Hyannis Streetscape 2	06/15/03	06/15/13	828,000	-	-	-	-	-	-	-	-	-	82,800
Drainage	06/15/03	06/15/21	90,000	-	-	-	-	-	-	-	-	-	53,975
GIS Mapping	06/15/08	06/15/13	275,000	-	-	-	-	-	-	-	-	-	56,925
Sidewalks	06/15/08	06/15/13	250,000	-	-	-	-	-	-	-	-	-	51,750
Private Road Repairs	06/15/08	06/15/23	1,607,900	111,548	-	-	-	-	-	-	-	-	1,466,168
Roadway Improvements - CAP	06/15/08	06/15/13	222,800	-	-	-	-	-	-	-	-	-	45,540
Bay St. Planning - CAP	06/15/08	06/15/13	40,000	-	-	-	-	-	-	-	-	-	6,210
Bridge St. Planning - CAP	06/15/08	06/15/13	40,000	-	-	-	-	-	-	-	-	-	8,280
Bridge Repair	06/14/11	06/15/21	250,000	-	-	-	-	-	-	-	-	-	265,750
Sidewalk Improvements	06/14/11	06/15/21	350,000	-	-	-	-	-	-	-	-	-	372,050
Traffic Calming	06/14/11	06/15/16	50,000	-	-	-	-	-	-	-	-	-	42,800
Baxter Neck Road's Neck Road - Private Way	06/14/11	06/15/26	350,000	22,925	22,125	21,450	20,750	-	-	-	-	-	410,250
Subtotal Public Ways				155,273	22,125	21,450	20,750	-	-	-	-	-	3,135,198

Appendix C – Debt Amortization Schedules

All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2013	Payments FY 2014	Payments FY 2015	Payments FY 2016	Payments FY 2017	Payments FY 2018	Payments FY 2019	Payments FY 2020	Payments FY 2021	Payments FY 2022
GENERAL FUND:													
Building - Senior Center - Refunded	02/15/07	02/15/19	702,378	94,990	91,990	88,990	85,990	82,990	79,790	26,250	-	-	-
Building - Town Hall Space - 00-110 Refunded	06/14/11	06/15/21	180,000	26,930	26,300	24,880	24,280	23,680	23,080	21,280	20,520	19,760	-
Building - Town Hall Repairs - 01-087 Refunded	06/14/11	06/15/22	100,000	14,390	13,060	12,860	12,560	12,260	11,960	11,560	11,160	10,760	9,360
Building - Kennedy Rink Improvements	06/15/03	06/15/23	250,000	19,525	14,000	13,600	13,200	12,800	12,400	12,000	11,600	11,200	10,800
Building - Police Facility Addition	06/15/03	06/15/23	1,300,000	93,275	91,000	88,400	85,800	83,200	80,600	78,000	75,400	72,800	70,200
Building - Police Station Construction - 2004-011	06/15/05	06/15/25	400,000	30,720	29,720	28,720	27,720	27,020	26,320	25,580	24,820	24,044	23,245
Old Town Hall	02/15/07	02/15/17	295,000	35,800	34,600	33,400	32,200	26,000	-	-	-	-	-
Town Building Repairs & Renovations	02/15/07	02/15/27	685,000	56,509	55,109	53,709	52,309	50,909	49,509	47,759	46,009	44,609	43,209
Beach Facilities	02/15/07	02/15/22	270,000	27,119	26,319	25,519	24,719	18,919	18,319	17,569	16,819	16,219	15,619
Senior Center - Garden Level	02/15/07	02/15/27	457,000	38,905	37,905	36,905	35,905	34,905	33,905	27,655	26,655	25,855	25,055
Bismore Park Visitor Center	06/15/08	06/15/23	465,000	44,601	43,516	42,431	41,346	39,951	38,789	37,316	36,076	34,836	33,596
Municipal Building Improvements	06/15/08	06/15/28	297,000	44,856	13,456	13,106	7,756	7,531	7,344	7,106	6,906	6,706	6,506
Bismore Park Visitor Center - CAP	06/15/08	06/15/23	150,000	14,388	14,038	13,688	13,338	12,888	12,513	12,038	11,638	11,238	10,838
Police Facility	06/15/10	06/15/30	508,000	40,594	40,094	39,594	39,094	37,844	36,594	35,969	34,719	33,969	33,219
Bismore Park Improvements	06/15/10	06/15/14	74,000	15,600	15,300	-	-	-	-	-	-	-	-
Municipal Facility Improvements	06/15/10	06/15/29	402,500	85,919	84,319	7,719	7,619	7,369	7,119	6,994	6,744	6,594	6,444
Highway Facility	06/15/10	06/15/30	136,000	11,460	11,314	11,169	11,024	10,660	9,571	9,407	9,080	8,884	8,688
Municipal Facility Upgrades/Repairs - MEA Building	06/14/11	06/15/16	114,000	27,350	21,600	21,200	20,600	-	-	-	-	-	-
Municipal Facility Improvement	06/14/11	06/15/21	300,000	39,000	38,100	37,500	36,600	35,700	34,800	33,600	32,400	31,200	-
Police Dept. Emergency Generator	06/14/11	06/15/16	271,000	60,900	59,250	58,150	51,500	-	-	-	-	-	-
Subtotal Public Buildings				822,830	760,989	651,539	623,559	524,625	482,611	410,082	370,545	358,673	296,778
Public Wharves-Dredging-Refunded	02/15/07	02/15/15	155,800	33,600	32,400	31,200	-	-	-	-	-	-	-
Dredging - 98-097 Refunded	06/14/11	06/15/16	144,000	40,930	38,820	37,100	36,050	-	-	-	-	-	-
Pleasant St. Dock - 1	06/15/08	06/15/23	350,000	34,126	32,286	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926
Pleasant St. Dock - 2	06/15/08	06/15/23	350,000	34,126	32,286	31,481	30,676	29,641	28,779	27,686	26,766	25,846	24,926
Lake & Pond Improvements	06/15/08	06/15/18	250,000	30,675	28,800	27,960	27,120	26,040	25,140	-	-	-	-
Boat Ramps - CAP	06/15/08	06/15/23	927,000	88,999	86,829	84,659	82,489	79,699	77,374	73,429	70,989	68,549	66,109
West Bay Bulkhead - CAP	06/15/08	06/15/13	40,000	5,175	-	-	-	-	-	-	-	-	-
Dredging	06/15/10	06/15/24	419,250	41,675	41,075	40,475	39,875	38,375	36,875	36,125	34,625	33,725	32,825
Boat Ramp Renovations	06/14/11	06/15/21	250,000	32,500	31,750	31,250	30,500	29,750	29,000	28,000	27,000	26,000	-
Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	59,450	58,250	57,450	56,250	55,050	53,850	52,250	50,650	49,050	47,450
Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	64,431	63,231	62,431	61,231	60,031	58,831	57,231	55,631	54,031	52,431
Dredging East Bay & Blish Point	06/14/11	06/15/21	665,000	89,750	87,650	81,250	79,300	77,350	75,400	72,800	70,200	67,600	-
Mill Pond Dredge & Lake Wequaquet Planning	06/14/11	06/15/16	430,000	94,350	91,800	90,100	87,550	-	-	-	-	-	-
Subtotal Waterways				649,788	625,178	606,838	561,718	425,578	414,028	375,208	362,628	350,648	248,668
Drainage - Refunded	02/15/07	02/15/14	152,100	32,400	31,200	-	-	-	-	-	-	-	-
Drainage 2	06/15/03	06/15/23	250,000	19,525	14,000	13,600	13,200	12,800	12,400	12,000	11,600	11,200	10,800
Nitrogen Management	10/31/05	07/15/20	1,439,320	5,314	4,735	4,143	3,540	2,925	2,297	1,657	1,003	337	-
MWPAT CW-04-31	11/09/07	07/15/20	389,216	28,685	29,265	29,856	30,459	31,075	31,702	32,343	32,996	33,663	-
Nitrogen Management CW-04-31-A	3/15/2011	7/15/2020	211,460	23,330	23,330	23,330	23,330	23,330	23,330	23,330	23,330	23,330	-
Nitrogen Management CW-04-31-B	5/18/2011	7/15/2020	539,860	66,660	66,683	66,706	66,729	66,753	66,778	66,803	66,828	649	-
Coastal Water Quality Improvements	06/15/08	06/15/18	250,000	30,675	28,800	27,960	27,120	26,040	25,140	-	-	-	-
Lake Treatment	06/15/10	06/15/25	275,000	27,775	27,375	26,975	26,575	25,575	24,575	24,075	23,075	17,475	17,025
Wastewater Management Planning	06/14/11	06/15/16	600,000	133,200	129,600	127,200	123,600	-	-	-	-	-	-
Subtotal Water Quality				367,565	354,987	319,770	314,554	188,498	186,222	160,207	158,833	86,653	27,825
Total General Fund				9,408,235	8,847,361	7,800,628	7,324,659	6,810,860	6,567,447	6,340,340	2,755,260	1,662,998	1,286,263

Appendix C – Debt Amortization Schedules All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2023	Payments FY 2024	Payments FY2025	Payments FY2026	Payments FY2027	Payments FY2028	Payments FY2029	Payments FY2030	Payments FY2031	Grand Total
GENERAL FUND:													
Building - Senior Center - Refunded	02/15/07	02/15/19	702,378	-	-	-	-	-	-	-	-	-	550,990
Building - Town Hall Space - 00-110 Refunded	06/14/11	06/15/21	180,000	-	-	-	-	-	-	-	-	-	210,710
Building - Town Hall Repairs - 01-087 Refunded	06/14/11	06/15/22	100,000	-	-	-	-	-	-	-	-	-	119,930
Building - Kennedy Rink Improvements	06/15/03	06/15/23	250,000	10,400	-	-	-	-	-	-	-	-	141,525
Building - Police Facility Addition	06/15/03	06/15/23	1,300,000	67,600	-	-	-	-	-	-	-	-	886,275
Building - Police Station Construction - 2004-011	06/15/05	06/15/25	400,000	22,445	21,645	20,825	-	-	-	-	-	-	332,824
Old Town Hall	02/15/07	02/15/17	295,000	-	-	-	-	-	-	-	-	-	162,000
Town Building Repairs & Renovations	02/15/07	02/15/27	685,000	41,765	40,295	33,825	32,550	31,275	-	-	-	-	679,348
Beach Facilities	02/15/07	02/15/22	270,000	-	-	-	-	-	-	-	-	-	207,138
Senior Center - Garden Level	02/15/07	02/15/27	457,000	24,230	23,390	22,550	21,700	20,850	-	-	-	-	436,370
Bismore Park Visitor Center	06/15/08	06/15/23	465,000	32,318	-	-	-	-	-	-	-	-	424,778
Municipal Building Improvements	06/15/08	06/15/28	297,000	6,300	6,088	5,875	5,663	5,444	5,225	-	-	-	155,869
Bismore Park Visitor Center - CAP	06/15/08	06/15/23	150,000	10,425	-	-	-	-	-	-	-	-	137,025
Police Facility	06/15/10	06/15/30	508,000	32,406	31,594	30,719	29,844	28,938	27,938	27,000	26,000	-	606,125
Bismore Park Improvements	06/15/10	06/15/14	74,000	-	-	-	-	-	-	-	-	-	30,900
Municipal Facility Improvements	06/15/10	06/15/29	402,500	6,281	6,119	5,944	5,769	5,588	5,388	5,200	-	-	267,125
Highway Facility	06/15/10	06/15/30	136,000	8,475	8,263	8,034	7,805	7,568	7,307	7,062	6,800	-	162,571
Municipal Facility Upgrades/Repairs - MEA Building	06/14/11	06/15/16	114,000	-	-	-	-	-	-	-	-	-	90,750
Municipal Facility Improvement	06/14/11	06/15/21	300,000	-	-	-	-	-	-	-	-	-	318,900
Police Dept. Emergency Generator	06/14/11	06/15/16	271,000	-	-	-	-	-	-	-	-	-	229,800
Subtotal Public Buildings				262,646	137,393	127,772	103,330	99,662	45,857	39,262	32,800	-	6,150,952
Public Wharves-Dredging-Refunded	02/15/07	02/15/15	155,800	-	-	-	-	-	-	-	-	-	97,200
Dredging - 98-097 Refunded	06/14/11	06/15/16	144,000	-	-	-	-	-	-	-	-	-	152,900
Pleasant St. Dock - 1	06/15/08	06/15/23	350,000	23,978	-	-	-	-	-	-	-	-	316,193
Pleasant St. Dock - 2	06/15/08	06/15/23	350,000	23,978	-	-	-	-	-	-	-	-	316,193
Lake & Pond Improvements	06/15/08	06/15/18	250,000	-	-	-	-	-	-	-	-	-	165,735
Boat Ramps - CAP	06/15/08	06/15/23	927,000	63,593	-	-	-	-	-	-	-	-	842,715
West Bay Bulkhead - CAP	06/15/08	06/15/13	40,000	-	-	-	-	-	-	-	-	-	5,175
Dredging	06/15/10	06/15/24	419,250	31,850	25,875	-	-	-	-	-	-	-	433,375
Boat Ramp Renovations	06/14/11	06/15/21	250,000	-	-	-	-	-	-	-	-	-	265,750
Prince Cove/Hayward Rd. Boat Ramp	06/14/11	06/15/26	600,000	45,850	44,250	42,900	41,500	-	-	-	-	-	714,200
Marina Bulkhead Repair I	06/14/11	06/15/30	725,000	50,831	44,231	43,050	41,825	40,513	39,200	37,800	36,400	-	923,363
Dredging East Bay & Blish Point	06/14/11	06/15/21	665,000	-	-	-	-	-	-	-	-	-	701,300
Mill Pond Dredge & Lake Wequaquet Planning	06/14/11	06/15/16	430,000	-	-	-	-	-	-	-	-	-	363,800
Subtotal Waterways				240,079	114,356	85,950	83,325	40,513	39,200	37,800	36,400	-	5,297,898
Drainage - Refunded	02/15/07	02/15/14	152,100	-	-	-	-	-	-	-	-	-	63,600
Drainage 2	06/15/03	06/15/23	250,000	10,400	-	-	-	-	-	-	-	-	141,525
Nitrogen Management	10/31/05	07/15/20	1,439,320	-	-	-	-	-	-	-	-	-	25,950
MWPAT CW-04-31	11/09/07	07/15/20	389,216	-	-	-	-	-	-	-	-	-	280,044
Nitrogen Management CW-04-31-A	3/15/2011	7/15/2020	211,460	-	-	-	-	-	-	-	-	-	209,973
Nitrogen Management CW-04-31-B	5/18/2011	7/15/2020	539,860	-	-	-	-	-	-	-	-	-	534,588
Coastal Water Quality Improvements	06/15/08	06/15/18	250,000	-	-	-	-	-	-	-	-	-	165,735
Lake Treatment	06/15/10	06/15/25	275,000	16,538	16,050	15,525	-	-	-	-	-	-	288,613
Wastewater Management Planning	06/14/11	06/15/16	600,000	-	-	-	-	-	-	-	-	-	513,600
Subtotal Water Quality				26,938	16,050	15,525	-	-	-	-	-	-	2,223,627
Total General Fund				1,143,056	653,401	597,256	542,069	322,619	205,837	163,450	152,450	41,650	62,625,839

Appendix C – Debt Amortization Schedules All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2013	Payments FY 2014	Payments FY 2015	Payments FY 2016	Payments FY 2017	Payments FY 2018	Payments FY 2019	Payments FY 2020	Payments FY 2021	Payments FY 2022
ENTERPRISE FUNDS:													
Airport	06/14/11	06/15/31	730,000	50,850	55,100	54,500	53,600	52,700	51,800	50,600	54,400	53,000	51,600
Total Airport Enterprise Fund				50,850	55,100	54,500	53,600	52,700	51,800	50,600	54,400	53,000	51,600
Hyannis Golf Course Acquisition	02/15/07	02/15/25	3,900,000	315,211	312,811	315,211	312,211	314,011	315,411	314,161	312,411	312,611	312,411
Hyannis Golf Course Equipment	02/15/07	02/15/17	550,000	67,200	70,000	67,600	70,200	67,600	-	-	-	-	-
Total Golf Course Enterprise Fund				382,411	382,811	382,811	382,411	381,611	315,411	314,161	312,411	312,611	312,411
Sewer 91-39, Series 1	08/01/01	08/01/13	809,173	69,764	35,689	-	-	-	-	-	-	-	-
Sewer - Refunded Bond	08/15/01	09/15/14	2,059,938	216,562	205,584	194,133	-	-	-	-	-	-	-
Sewer 91-39, Series 3	08/01/01	02/01/17	948,689	50,881	50,946	51,053	51,133	51,232	-	-	-	-	-
Sewer 96-28, Series 3	08/01/01	02/01/17	1,484,449	79,615	79,717	79,883	80,011	80,165	-	-	-	-	-
Sewer Collection Expansion	02/15/07	02/15/17	640,000	77,600	75,000	72,400	64,800	62,400	-	-	-	-	-
Sewer 98-27	08/25/04	08/01/19	329,295	18,344	17,915	17,117	16,522	20,199	19,413	18,754	18,470	-	-
Sewer 98-42 - Series 5	08/25/04	08/01/19	216,429	12,441	12,398	11,733	11,330	10,821	10,282	14,972	20,000	-	-
Sewer 98-44	08/25/04	08/01/19	112,262	6,179	6,034	6,486	6,265	6,046	6,523	6,300	6,204	-	-
Sewer 98-46	08/25/04	08/01/19	1,398,265	74,991	78,150	79,565	78,847	79,030	75,854	78,135	81,963	-	-
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	21,829	22,574	21,783	21,300	20,393	19,919	19,601	23,346	22,773	22,276
Sewer 98-44A	07/14/06	08/01/23	1,582,178	80,992	81,131	82,485	79,420	81,388	82,859	79,515	81,735	83,677	80,649
Sewer 98-49A	12/14/06	08/01/23	556,458	28,183	28,264	27,497	31,391	30,242	28,980	27,809	26,875	30,781	29,681
MWPAT CW-04-35-A	12/15/09	07/15/27	1,679,248	116,518	116,518	116,518	116,518	116,519	116,518	116,518	116,519	116,519	116,518
MWPAT CW-04-35	12/15/09	07/15/27	4,938,114	326,669	326,668	326,669	326,668	326,669	326,668	326,668	326,669	326,668	326,668
Sewer Turbine Generator	06/15/08	06/15/28	570,000	42,366	56,526	55,161	58,796	36,816	35,916	33,776	32,856	31,936	31,016
Sewer 05-28 Restructured	03/15/11	07/15/28	629,403	41,636	41,637	41,636	41,637	41,636	41,636	41,636	41,636	41,637	41,637
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	199,318
Sewer	06/14/11	06/15/21	300,000	39,000	38,100	37,500	36,600	35,700	34,800	33,600	32,400	31,200	-
Total Sewer Enterprise Fund				1,502,886	1,472,169	1,420,936	1,220,556	1,198,574	998,687	996,602	1,007,992	884,509	847,764
Solid Waste Landfill Closure - 98-24	08/25/04	08/01/18	5,166,301	315,540	320,835	325,048	325,411	326,808	323,932	336,002	-	-	-
Transfer Station	06/15/03	06/15/23	545,000	35,875	35,000	34,000	33,000	32,000	31,000	30,000	29,000	28,000	27,000
Solid Waste Facility	02/15/07	02/15/27	630,000	54,183	47,783	46,583	45,383	44,183	42,983	41,483	39,983	38,783	37,583
Total Solid Waste Enterprise Fund				405,598	403,617	405,631	403,794	402,991	397,914	407,484	68,983	66,783	64,583

Appendix C – Debt Amortization Schedules All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2023	Payments FY 2024	Payments FY2025	Payments FY2026	Payments FY2027	Payments FY2028	Payments FY2029	Payments FY2030	Payments FY2031	Grand Total
ENTERPRISE FUNDS:													
Airport	06/14/11	06/15/31	730,000	55,200	53,600	52,250	50,850	54,350	52,663	50,863	54,063	52,063	1,004,050
Total Airport Enterprise Fund				55,200	53,600	52,250	50,850	54,350	52,663	50,863	54,063	52,063	1,004,050
Hyannis Golf Course Acquisition	02/15/07	02/15/25	3,900,000	311,480	314,930	312,750	-	-	-	-	-	-	4,075,623
Hyannis Golf Course Equipment	02/15/07	02/15/17	550,000	-	-	-	-	-	-	-	-	-	342,600
Total Golf Course Enterprise Fund				311,480	314,930	312,750	-	-	-	-	-	-	4,418,223
Sewer 91-39, Series 1	08/01/01	08/01/13	809,173	-	-	-	-	-	-	-	-	-	105,453
Sewer - Refunded Bond	08/15/01	09/15/14	2,059,938	-	-	-	-	-	-	-	-	-	616,279
Sewer 91-39, Series 3	08/01/01	02/01/17	948,689	-	-	-	-	-	-	-	-	-	255,244
Sewer 96-28, Series 3	08/01/01	02/01/17	1,484,449	-	-	-	-	-	-	-	-	-	399,391
Sewer Collection Expansion	02/15/07	02/15/17	640,000	-	-	-	-	-	-	-	-	-	352,200
Sewer 98-27	08/25/04	08/01/19	329,295	-	-	-	-	-	-	-	-	-	146,733
Sewer 98-42 - Series 5	08/25/04	08/01/19	216,429	-	-	-	-	-	-	-	-	-	103,976
Sewer 98-44	08/25/04	08/01/19	112,262	-	-	-	-	-	-	-	-	-	50,036
Sewer 98-46	08/25/04	08/01/19	1,398,265	-	-	-	-	-	-	-	-	-	626,536
Shallow Well Injection - CW-00-60 - Pool 8	08/25/04	08/01/22	436,370	21,722	-	-	-	-	-	-	-	-	237,516
Sewer 98-44A	07/14/06	08/01/23	1,582,178	82,320	80,570	-	-	-	-	-	-	-	976,742
Sewer 98-49A	12/14/06	08/01/23	556,458	28,513	27,904	-	-	-	-	-	-	-	346,120
MWPAT CW-04-35-A	12/15/09	07/15/27	1,679,248	116,518	116,519	116,518	116,518	116,518	116,518	-	-	-	1,864,292
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	-	-	-	5,226,693
Sewer Turbine Generator	06/15/08	06/15/28	570,000	30,068	34,090	32,900	31,710	30,485	29,260	-	-	-	603,680
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	-	-	707,821
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	3,787,041
Sewer	06/14/11	06/15/21	300,000	-	-	-	-	-	-	-	-	-	318,900
Total Sewer Enterprise Fund				846,763	826,705	717,041	715,851	714,625	713,401	240,954	199,318	199,318	16,724,652
Solid Waste Landfill Closure - 98-24	08/25/04	08/01/18	5,166,301	-	-	-	-	-	-	-	-	-	2,273,577
Transfer Station	06/15/03	06/15/23	545,000	26,000	-	-	-	-	-	-	-	-	340,875
Solid Waste Facility	02/15/07	02/15/27	630,000	36,345	35,085	33,825	32,550	31,275	-	-	-	-	608,005
Total Solid Waste Enterprise Fund				62,345	35,085	33,825	32,550	31,275	-	-	-	-	3,222,457

Appendix C – Debt Amortization Schedules

All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2013	Payments FY 2014	Payments FY 2015	Payments FY 2016	Payments FY 2017	Payments FY 2018	Payments FY 2019	Payments FY 2020	Payments FY 2021	Payments FY 2022
ENTERPRISE FUNDS:													
Water Co. Acquisition	02/15/07	02/15/27	10,000,000	751,446	750,246	748,446	751,046	752,846	748,846	749,346	748,596	751,996	749,396
MWPAT DWS-09-02	07/08/10	07/15/30	2,788,911	169,185	169,185	169,184	169,185	169,185	169,184	169,185	169,184	169,184	169,185
Total Water Enterprise Fund				920,631	919,431	917,630	920,231	922,031	918,030	918,531	917,780	921,180	918,581
Land Acquisition - Prince Cove	06/15/04	06/15/23	1,850,000	149,933	140,933	137,038	133,000	128,250	123,500	118,750	114,000	109,250	104,500
Marina Bulkhead Repair II	06/15/11	06/16/30	525,000	38,400	37,800	37,400	41,800	41,050	40,300	39,300	38,300	37,300	41,300
Total Marina Enterprise Fund				188,333	178,733	174,438	174,800	169,300	163,800	158,050	152,300	146,550	145,800
Sandy Neck Beach House I	06/14/11	06/15/31	966,491	69,206	68,156	67,456	71,406	70,206	69,006	72,406	70,606	68,806	72,006
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	7,619	7,469	7,369	7,219	7,069	6,919	6,719	6,519	6,319	6,119
Sandy Neck Beach House III	06/14/11	06/15/31	217,509	17,656	17,356	17,156	16,856	16,556	16,256	15,856	15,456	15,056	14,656
Total Sandy Neck Enterprise Fund				94,481	92,981	91,981	95,481	93,831	92,181	94,981	92,581	90,181	92,781
HYCC 1	02/15/07	02/15/27	1,000,000	81,638	79,638	77,638	75,638	73,638	71,638	69,138	66,638	64,638	62,638
HYCC 2	02/15/07	02/15/27	8,000,000	653,100	637,100	621,100	605,100	589,100	573,100	553,100	533,100	517,100	501,100
HYCC 3	02/15/07	02/15/27	1,600,000	130,620	127,420	124,220	121,020	117,820	114,620	110,620	106,620	103,420	100,220
HYCC 4	06/15/08	06/15/28	6,765,000	560,630	547,765	535,935	524,105	508,895	496,220	480,165	466,645	453,125	439,605
Total HYCC Enterprise Fund				1,425,988	1,391,923	1,358,893	1,325,863	1,289,453	1,255,578	1,213,023	1,173,003	1,138,283	1,103,563
Land Acquisition Refunded	06/14/11	16/15/22	7,065,000	1,027,233	991,153	957,598	924,710	887,123	849,998	812,023	678,408	619,005	521,003
Land Acquisition - Dugas - 06/15/03	06/15/03	06/15/23	2,000,000	143,500	140,000	136,000	132,000	128,000	124,000	120,000	116,000	112,000	108,000
Land Acquisition - MM Airport	06/15/04	06/15/23	11,281,000	905,233	881,433	857,038	831,750	802,000	772,250	737,500	708,000	678,500	649,000
Land Acquisition	06/15/04	06/15/23	502,000	38,088	37,088	36,063	35,000	33,750	32,500	31,250	30,000	28,750	27,500
Land Acquisition - 2004-105 Bonehill	06/15/05	06/15/25	200,000	15,360	14,860	14,360	13,860	13,510	13,160	12,790	12,410	12,023	11,623
Land Acquisition - 06-15-05 - 2004-106	06/15/05	06/15/25	180,000	14,549	14,049	13,549	13,049	12,699	12,349	11,979	11,599	11,211	5,811
Land Acquisition - 06-15-05 - 2004-107 - Hyannis Golf	06/15/05	06/15/25	5,500,000	422,400	408,650	394,900	381,150	371,525	361,900	351,725	341,275	330,619	319,619
Land Acquisition - Archibald	02/15/07	02/15/26	500,000	39,756	38,756	37,756	36,756	35,756	34,756	33,506	32,256	31,256	30,256
Town Hall Renovations	06/15/10	06/15/30	1,332,520	111,094	109,694	108,294	106,894	98,394	95,144	93,519	90,269	88,319	86,369
Total Community Preservation Fund				2,717,211	2,635,682	2,555,557	2,475,169	2,382,757	2,296,057	2,204,292	2,020,217	1,911,683	1,759,180
Title V - Phase I - 97-1131 Series 6	07/25/02	08/01/20	197,403	10,400	10,400	10,400	10,400	10,400	10,400	10,400	10,400	10,200	-
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	9,724	9,972	9,972	9,972	9,972	9,972	9,972	9,972	9,972	10,204
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	10,000	10,000	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	10,000	10,000	10,000	10,000	10,000	10,000
Title V - Phase V - Pool 12 97-1131-4D	07/15/07	07/15/26	200,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Total Title V Special Revenue Fund				50,124	50,372	50,372	50,372	50,372	50,372	50,372	50,372	50,172	40,204
Grand Total All Funds				17,146,748	16,430,179	15,213,376	14,426,936	13,754,480	13,107,278	12,748,436	8,605,298	7,237,949	6,622,729

Appendix C – Debt Amortization Schedules All Issued Debt Outstanding As Of June 30, 2011

Purpose	Issue Date	Maturity Date	Original Amount	Payments FY 2023	Payments FY 2024	Payments FY2025	Payments FY2026	Payments FY2027	Payments FY2028	Payments FY2029	Payments FY2030	Payments FY2031	Grand Total
ENTERPRISE FUNDS:													
Water Co. Acquisition	02/15/07	02/15/27	10,000,000	750,265	749,645	747,975	749,925	750,600	-	-	-	-	11,250,622
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	3,214,503
Total Water Enterprise Fund				919,449	918,829	917,160	919,109	919,784	169,184	169,184	169,184	169,184	14,465,126
Land Acquisition - Prince Cove	06/15/04	06/15/23	1,850,000	99,750	-	-	-	-	-	-	-	-	1,358,903
Marina Bulkhead Repair II	06/15/11	06/16/30	525,000	40,100	38,900	37,888	36,838	40,713	39,400	38,000	41,600	-	706,388
Total Marina Enterprise Fund				139,850	38,900	37,888	36,838	40,713	39,400	38,000	41,600	-	2,065,290
Sandy Neck Beach House I	06/14/11	06/15/31	966,491	70,006	68,006	71,319	69,394	72,331	70,081	67,681	70,281	67,681	1,326,044
Sandy Neck Beach House II	06/14/11	06/15/26	81,000	5,919	5,719	5,550	10,375	-	-	-	-	-	96,900
Sandy Neck Beach House III	06/14/11	06/15/31	217,509	14,256	13,856	13,519	13,169	12,794	17,419	16,819	16,219	15,619	296,531
Total Sandy Neck Enterprise Fund				90,181	87,581	90,388	92,938	85,125	87,500	84,500	86,500	83,300	1,719,476
HYCC 1	02/15/07	02/15/27	1,000,000	60,575	58,475	56,375	54,250	52,125	-	-	-	-	1,004,675
HYCC 2	02/15/07	02/15/27	8,000,000	484,600	467,800	451,000	434,000	417,000	-	-	-	-	8,037,400
HYCC 3	02/15/07	02/15/27	1,600,000	96,920	93,560	90,200	86,800	83,400	-	-	-	-	1,607,480
HYCC 4	06/15/08	06/15/28	6,765,000	425,663	410,298	395,975	381,653	366,909	352,165	-	-	-	7,345,751
Total HYCC Enterprise Fund				1,067,758	1,030,133	993,550	956,703	919,434	352,165	-	-	-	17,995,306
Land Acquisition Refunded	06/14/11	16/15/22	7,065,000	-	-	-	-	-	-	-	-	-	8,268,250
Land Acquisition - Dugas - 06/15/03	06/15/03	06/15/23	2,000,000	104,000	-	-	-	-	-	-	-	-	1,363,500
Land Acquisition - MM Airport	06/15/04	06/15/23	11,281,000	619,500	-	-	-	-	-	-	-	-	8,442,203
Land Acquisition	06/15/04	06/15/23	502,000	26,250	-	-	-	-	-	-	-	-	356,238
Land Acquisition - 2004-105 Bonehill	06/15/05	06/15/25	200,000	11,223	10,823	10,413	-	-	-	-	-	-	166,413
Land Acquisition - 06-15-05 - 2004-106	06/15/05	06/15/25	180,000	5,611	5,411	5,206	-	-	-	-	-	-	137,071
Land Acquisition - 06-15-05 - 2004-107 - Hyannis Golf	06/15/05	06/15/25	5,500,000	308,619	297,619	286,344	-	-	-	-	-	-	4,576,344
Land Acquisition - Archibald	02/15/07	02/15/26	500,000	29,225	28,175	27,125	26,063	-	-	-	-	-	461,400
Town Hall Renovations	06/15/10	06/15/30	1,332,520	84,256	82,144	79,869	77,594	75,238	72,638	70,200	67,600	-	1,597,529
Total Community Preservation Fund				1,188,684	424,172	408,957	103,657	75,238	72,638	70,200	67,600	-	25,368,947
Title V - Phase I - 97-1131 Series 6	07/25/02	08/01/20	197,403	-	-	-	-	-	-	-	-	-	93,400
Title V - Phase I - 97-1131 Series 6	07/01/04	08/01/22	190,580	10,204	-	-	-	-	-	-	-	-	109,908
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	-	-	-	-	-	140,000
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	-	-	-	-	-	140,000
Title V - Phase V - Pool 12 97-1131-4D	07/15/07	07/15/26	200,000	10,000	10,000	10,000	10,000	10,000	-	-	-	-	150,000
Total Title V Special Revenue Fund				40,204	30,000	30,000	30,000	10,000	-	-	-	-	633,308
Grand Total All Funds				5,864,970	4,413,336	4,191,063	3,480,563	3,173,163	1,692,788	817,151	770,715	545,515	150,242,672

FY 2013 BUDGET ACTION CALENDAR

Wednesday	September	14	2011	If not already started, all Departments begin work developing CIP for FY 2013 - FY 2017 See O:Drive\Budget13Budget\12CIP also R:Drive\Budget\13Budget\13CIP (Instructions, Calendar & Forms)
Thursday	September	22	2011	Town Manager and School Superintendent meet to finalize a revenue sharing agreement for FY 2013
Friday	September	23	2011	Departments submit latest FY12 revenue figures and preliminary revenue estimates for FY 2013
Tuesday	October	11	2011	FY 2013 Operating Budget Instructions for departments issued by Town Manager
Friday	October	21	2011	All Departments submit review of existing capital projects to Finance Director and Town Manager (See CIP Instructions)
Monday	October	24	2011	Municipal Departments submit preliminary listing of any proposed FY 2013 position changes with supporting justification to Human Resources (copy Town Manager)
Monday	October	31	2011	FY 2013 Operating Budget Instructions for Libraries issued by Town Manager
Friday	November	4	2011	Deadline for electronic version of Municipal & School Departments FY 2013 CIP project requests in O:Drive
Friday	November	4	2011	All Departments submit 6 hard copies of FY 13 CIP requests to Town Manager
Tuesday	November	8	2011	State and local election
Thursday	November	10	2011	Director HR submits position changes summary including comments to Town Manager
Monday	November	21	2011	CIP Task Force begins scoring of CIP Projects (to be completed Friday December 16) CFAC begins review of FY 2013 - FY 2017 CIP Department Requests
Tuesday	December	6	2011	Town Manager conducts public hearing on permits and fees
Thursday	December	15	2011	Annual Organization of Town Council (TM must submit budget to Council within 170 days)
Friday	December	16	2011	Deadline for electronic version of Municipal Department budget packages placed in O:Drive - Libraries email individual budget narratives to Town Manager office (Bob O'Brien)
Friday	December	16	2011	Final day for CIP Task Force to complete & submit CIP Project scores
Wednesday	January	4	2011	All Departments submit revenue projection changes for FY 2013 to Finance Director
Thursday	January	19	2012	Town Council conducts a joint meeting/workshop with the School Committee to receive a preliminary financial forecast from the Finance Director and to agree on a coordinated budget
Friday	February	24	2012	CFAC submits report of their review of Department CIP Requests to Town Manager
Thursday	March	15	2012	Town Manager submits recommended CIP and Capital Budget to the Town Council per Part VI, Section 6-5(a) of the Charter. <u>(TC must adopt Plan BEFORE June 1 2012)</u>
Friday	March	16	2012	Town Council publishes summary of Capital budget and hearing info in local newspaper
Thursday	April	5	2012	Town Council conducts workshop & hearings on recommended FY 2013 Capital Budget per Part VI Section 6-5 (c) of the Charter. <u>(Public Hearing to be held not less than 14 days after Publication)</u>
Wednesday	April	18	2012	Final Day for School Department to submit Operating Budget as adopted by the School Committee per Part VI, Section 6-2 of the Charter. <u>(30 days prior to TM submission toTC)</u>
Thursday	May	17	2012	Town Manager submits recommended Operating Budget to Clerk of the Council & Town Council per Section 32 Ch 44 MGL, and Part VI, Section 6-2 of the Charter. <u>(TC has 45 days to adopt budget, otherwise it becomes part of the appropriations for FY 2013)</u>
Thursday	May	17	2012	CFAC provided with copies of the recommended Operating Budget to begin their review.
Friday	May	18	2012	Town Council publishes summary of Operating Budget and hearing info in local newspaper per Part VI, Section 6-3 (a) of the Charter
Thursday	May	31	2012	Last day the FY 2013 Capital Improvement Plan can be adopted by the Town Council per Part VI, Section 6-5(d) of the Charter
Thursday	June	7	2012	Town Council conducts first reading and 1st workshop of recommended FY 2013 Operating Budget appropriations
Thursday	June	14	2012	Town Council conducts 2nd workshop (if needed) and Public Hearing recommended FY 2013 Operating Budget. <u>(Public Hearing to be held not less than 14 days following publication)</u>
Thursday	June	14	2012	CFAC submits report of their review of Operating Budget Requests to Town Council
Thursday	June	21	2012	Town Council conducts 2nd Public Hearing recommended FY 2013 Operating Budget (If needed)
Friday	June	29	2012	Last <u>weekday</u> the FY 2013 Operating Budget can be adopted by the Town Council per Part VI, Section 6-3 (b) of the Charter. <u>(TC must adopt within 45 days of receiving budget)</u>
Friday	June	29	2012	Unencumbered balances Capital Appropriations authorized during & before FY 2010 EXPIRE



**Town of Barnstable
FY 2013 Capital Budget
FY 2013 – 2017 Capital Improvement Plan**