Massachusetts Coastal Infrastructure Inventory and Assessment Project Massachusetts Department of Conservation and Recreation Office of Waterways

Boston Harbor - North

Nahant
Winthrop
Chelsea
Everett
Harbor Islands



dcr 🚱

July 6, 2009

Prepared for:

Massachusetts Department of Conservation and Recreation Hingham, Massachusetts

Presented by:

Bourne Consulting Engineering Franklin, Massachusetts

In Association With:

Childs Engineering Corporation



Bourne Consulting Engineering

Waterfront Engineers

Boston Harbor - North

TABLE OF CONTENTS

Section I - Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

PURPOSE

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES
DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS

Section II - Nahant

- Part A Community Findings
 - COMMUNITY DESCRIPTION
 - STRUCTURE INVENTORY
 - SUMMARY OF FINDINGS
- Part B Structure Assessment Reports
- Part C Structure Photographs
- Part D Structure Documents
 - TOWN DOCUMENT LIST
 - o Document Table
 - MA DCR DOCUMENT LIST
 - o Document Table
 - MA DEP CH 91 DOCUMENT LIST
 - o Document Table
 - o Copies of License Documents
 - USACE PERMIT DOCUMENT LIST
 - o Document Table
 - o Copies of Permit Documents

MASSACHUSETTS COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT PROJECT

Boston Harbor - North

Section III - Winthrop

Part A - Community Findings

- COMMUNITY DESCRIPTION
- STRUCTURE INVENTORY
- SUMMARY OF FINDINGS
- Part B Structure Assessment Reports
- Part C Structure Photographs
- Part D Structure Documents
 - TOWN DOCUMENT LIST
 - o Document Table
 - MA DCR DOCUMENT LIST
 - o Document Table
 - MA DEP CH 91 DOCUMENT LIST
 - o Document Table
 - o Copies of License Documents
 - USACE PERMIT DOCUMENT LIST
 - o Document Table
 - o Copies of Permit Documents

Section IV - Chelsea

Part A - Community Findings

- COMMUNITY DESCRIPTION
- STRUCTURE INVENTORY
- SUMMARY OF FINDINGS

MASSACHUSETTS COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT PROJECT

Boston Harbor - North

- Part B Structure Assessment Reports
- Part C Structure Photographs
- Part D Structure Documents
 - CITY DOCUMENT LIST
 - Document Table
 - MA DCR DOCUMENT LIST
 - o Document Table
 - MA DEP CH 91 DOCUMENT LIST
 - o Document Table
 - o Copies of License Documents
 - USACE PERMIT DOCUMENT LIST
 - o Document Table
 - o Copies of Permit Documents

Section V - Everett

- Part A Community Findings
 - COMMUNITY DESCRIPTION
 - STRUCTURE INVENTORY
 - SUMMARY OF FINDINGS
- Part B Structure Assessment Reports
- Part C Structure Photographs
- Part D Structure Documents
 - CITY DOCUMENT LIST
 - o Document Table
 - MA DCR DOCUMENT LIST
 - o Document Table

Boston Harbor - North

• MA DEP – CH 91 DOCUMENT LIST

- o Document Table
- o Copies of License Documents

• USACE - PERMIT DOCUMENT LIST

- o Document Table
- o Copies of Permit Documents

Section VI - Harbor Islands

Part A - Community Findings

- COMMUNITY DESCRIPTION
- STRUCTURE INVENTORY
- SUMMARY OF FINDINGS

Part B - Structure Assessment Reports

Part C - Structure Photographs

Part D - Structure Documents

- CITY DOCUMENT LIST
 - Document Table
- MA DCR DOCUMENT LIST
 - o Document Table

• MA DEP - CH 91 DOCUMENT LIST

- o Document Table
- o Copies of License Documents

• USACE - PERMIT DOCUMENT LIST

- o Document Table
- o Copies of Permit Documents

Section I

Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

PURPOSE

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS



Massachusetts Coastal Infrastructure Inventory and Assessment Project Coastal Hazards Commission

Section I - Coastal Hazards Infrastructure and Assessment Program

INTRODUCTION

The Project and Client

The Commonwealth of Massachusetts has initiated a Coastal Hazards Commission (CHC) to identify the vulnerability of the state to coastal hazards. As one of five working groups working under the CHC, the 20-Yr Infrastructure Plan was to establish a prioritization for the repair of coastal structures. The focus areas of the Working Group include:

- Publicly owned infrastructure
- Infrastructure for which State is responsible
- Inventory of public hazards infrastructure
- Evaluation on conditions
- Development for a prioritization of work
- Estimation of capital and maintenance costs

The 20-Yr Infrastructure Working Group is led by Representative Frank Hynes with CZM as the lead State Agency overseeing the management of the project. The Massachusetts coastline has been broken up into 4 major regions consisting of the North Shore, Boston, South Coast, and the Cape and Islands. The South Shore (the Towns of Hull, Cohasset, Seekonk, Hingham, Plymouth, Kingston, Scituate and Duxbury) was previously evaluated by Bourne Consulting Engineering as a demonstration project in 2006.

Consultant Team

The consultant team that performed the demonstration project was led by Bourne Consulting Engineering (BCE) of Franklin, MA who was responsible for overall project management, specified areas of field assessments, and research. Assisting BCE was Applied Coastal Research and Engineering Inc. of Mashpee, MA, Childs Engineering Corporation, of Medfield, MA., and Waterfront Engineer LLC of Stratham, NH.

PURPOSE

Study Purpose

CZM seeks to identify the capacity of Massachusetts coastal structures to resist major coastal storms and prevent storm damage. In working toward this goal, CZM has initiated a program to perform an assessment of Commonwealth owned and/or maintained coastal structures. The first phase of this program was the performance of a demonstration project for coastal structures located on the South Shore. The demonstration project identified existing structures, their general conditions, ability to provide coastal protection and the probable cost for repairs. The information collected and developed has been incorporated into the MassGIS system to allow use for developing a 20 Year Coastal Infrastructure Plan.

The demonstration project served as a basis for the current statewide inventory assessment of all Commonwealth coastal structures and the needs for their maintenance and/or repair.

Goals of Study

The goals of the Massachusetts Coastal Infrastructure Inventory and Assessment Project include:

- To identify all the coastal structures the state either owns or has responsibility to maintain for the 4 regions included within the study
- Of the structures identified, determine the structure location and characteristics, the structure condition relative to providing coastal protection and the structure importance in relation to what it is protecting.
- To the degree possible, identify the structure elevation and the FIRM mapping flood elevation and category.
- To the degree possible, identify structure owner and available documents from local, state and federal agencies.
- To establish an estimated cost to rehabilitate the coastal structures to provide the level of project established in the structure's original design.
- Provide the information in a format compatible for incorporation into the MassGIS system

Limit of Study

Due to the time constraints and the amount of effort necessary to collect, process and compile the information, the following are identified as limitations of the information presented:

- All property ownership was taken as presumed. No legal investigation of ownership was
 performed during the project. Property ownership is based on town assessor maps. Where
 structures were located outshore of assessor map defined property lines, it was assumed to be
 Town land unless other information indicated otherwise. Where structures were located outshore
 of Mean Low Water, property is assumed to be State owned.
- The structure ownership was based on assessor maps and research at the local, state and federal levels. Where there was indication of public work on a structure on Town land or on private property, the structure was presumed to be Town owned. Where the structure was on state property, the structure was presumed to be state owned. Where ownership of the structure was not clear but was located on private property, the structure ownership was defined as unknown.
- The study included town and state owned structures as it was assumed that most town owned structures received state funding at some level for construction and/or maintenance.
 - o Structures that were determined to be private were not included.
 - O Undocumented structures considered to be on private land, but having the potential to have been publicly built and/or maintained, were identified as having an "unknown ownership".
- The prioritizing of structures was based primarily on risk to general infrastructure and density of housing. Infrastructure included was buildings. The study did not consider all infrastructure issues including:
 - o No consideration on utility impacts water, electrical, sewer, gas
 - o No consideration of roadway and bridge protection
 - o Evacuation routes were not considered within the investigation
 - o Location of Emergency Shelters were not included in priority assessments
- Research was performed at the local, state and federal levels. The local research was limited to
 location and documenting available coastal structure contract drawings. Research at DCR was
 restricted to available historic construction plans for coastal structures at the MA-DCR
 Waterways office in Hingham, MA, and MA-DCR Division of Urban Parks and Recreation in

I -2

BCE

Boston, MA. No investigation of state archives was performed. Research at MA DEP Chapter 91 and USACE was limited to recorded permits and licenses found in their files. No investigation was performed at the Registry of Deeds.

DEVELOPMENT OF MassGIS DATABASE ATTRIBUTES

The specific attributes that would be incorporated into the MassGIS system were developed based on the scope of work and the goals to be achieved. The following was established to standardize the data collection and presentation and to allow total flexibility for sorting by attributes in the final GIS database. The attributes identified below were input into a MS Access database which was used to manage the data from all eight communities within a single file.

Database Attributes

Attribute Descriptions/Definitions

Structure Number: A unique structure number was given to each coastal structure. The number was based on existing numbering systems that include the State Department of Environmental Protection community number followed by the local community assessor's parcel numbering system. The last three digits of the number represent the structure within the parcel. Where structures extend over several parcels, the structure is referenced to a parcel that is approximately in the center of the structure. Where Town assessor's references include letters, those are also included within the structure number. Some communities have block numbering within their numbering system and these are included. Communities without block numbering still have the block numbering included but these are illustrated as all zeros for that specific segment.

Structures that are on Town property, which would otherwise not have a parcel number, are referenced to a parcel that is in the immediate vicinity of the coastal structure.

On this basis, the following is the general numbering convention:

CCC-MMM-BBB-PPP-SSS

Where:

CCC

DEP Community Number

MMM

Community Map Number

BBB

Block Number (000 if no block numbering system)

PPP

Community Parcel Number

SSS

Structure Number

<u>Property Ownership</u>: All property ownership was on a "presumed" basis as no legal verification of ownership was performed. The ownership of the property was classified under four basic areas which were private ownership (Private), Town ownership (Local), Commonwealth of Massachusetts ownership (State), federal government ownership (Federal) or unknown. Property ownership was based on Town assessor's maps. Where the location was located above Mean Low Water, and not within a defined parcel, the property ownership was presumed to be the Town unless documentation was found to indicate otherwise. Where a structure was located offshore of Mean Low Water, the property ownership was presumed to be federal.

Structure Ownership: The ownership of all structures is presumed as no verification of ownership was performed. Ownership of the structure was determined by research into historic state and federal

BCE

I -3 Boston Harbor North

permits and the entity indicated on the permits as the applicant. Where no other information was found, the following was utilized:

- Structures located on private land but appearing to be significant structures were identified as owned by the Town or as "Unknown". Unknown was used were there was a question of local or private ownership.
- Structures on Town property were assumed to be owned by the Town
- Structures that were located off-shore were presumed to be federally owned
- Structures that were identified as being privately owned were eliminated from the database

<u>Basis of Ownership:</u> The basis of structure ownership was provided to give rationale to the structure ownership and identified the research resource that identified the ownership or the methodology otherwise used. The responses utilized were limited to the following:

- DPW DPW Employee Interview
- DCR Contract Drawings
- DEP Ch 91 License
- USACE Permits
- Property Ownership
- Offshore Structure

Structure Owner's Name: Ownerships names reflect the presumed owner of publicly owned structures. As this was for public structures only, the ownership was restricted to the community name, the state agency or the federal agency.

Earliest Structure Record: The year of the oldest document located for the structure. The information is determined from the document research performed on the structure from local, state and federal agencies. If no documents could be found than this entry is denoted as 'Unknown'. Where documentation of the structure could be found, the date from the oldest document was utilized.

<u>Primary Structure</u>: Many of the coastal structures consisted of combined structures which were rated separately. It was typically found that one structure was significantly more predominant (Ex. Bulkhead/Seawall) and was therefore identified as the Primary Structure while a smaller structure might exist in front (ex. Revetment) of it. The type, height and material of each structure are identified separately. The condition of each structure was based on the Primary Structure. Where there was no secondary structure, the fields were left blank.

<u>Structure Type:</u> The structure type was categorized into five basic coastal structure categories which were Bulkhead/Seawall, Revetment, Coastal Beach, Coastal Dune, and Jetty/Groin.

<u>Structure Material:</u> The identification of the coastal structure's material of construction was performed and represents the primary material. Stone structures consisted of both mortared and non-mortared conditions.

Structure Height: Each type of structure was categorized by its visible height in feet which was broken into four specific ranges which are:

< 5 feet 5 to 10 feet 10 to 15 feet >15 feet

Structure Condition: A preliminary assessment of the condition for each structure was performed by the field teams. This was by visual observation only and no detailed investigation was performed. The condition assessments were based on a predefined five level rating system that ranged from Rating A for Excellent Condition to Rating F for Critical Condition. A detailed listing of the conditions and their definitions can be seen in Exhibit A.

BCE

<u>Priority Rating:</u> In order to account for the need for protection at any one site, a five level priority rating system was established. This allowed for consideration of public infrastructure protection, density of residential housing for development of structure overall importance for coastal protection. The ratings range from Level 1 for no infrastructure or residence protection to Level 5 for critical inshore infrastructure protection and/or high density residential. The detailed listing and definitions for the priority categories can be seen in Exhibit B.

Structure Repair / Reconstruction Cost: A preliminary estimation of construction costs to maintain or repair structures was made based on the preliminary field assessment of the structures. A Repair Cost Matrix was developed based on structure type, condition, height and material and can be seen in Exhibit C. Once each structure's type, height, and material classifications were determined, the cost per foot for the structure was determine from the Repair Cost Matrix and multiplied by the length of the structure to obtain the estimated repair/restoration cost. The cost matrix repair costs include a 20 percent construction cost contingency as well as 10 percent costs for engineering and permitting.

Structure Length: The length of each structure is provided and utilized in the development of the repair/reconstruction costs. The lengths are given to the nearest foot and taken as the linear distance along the structure, as determined by the GPS location, which takes into account structure angles and curvature.

Structure Elevation: The elevation of structures was determined in feet from existing information where available. The datum used is NAVD 88 and elevations are to the nearest foot. From a previous study much of the south shore coastal structures had elevations defined based on LIDAR mapping data. Where available structure documentation with elevations was found, in areas with no LIDAR data, the information was included within the structure information. Where there was no LIDAR information or existing documentation, the item has been left blank.

LIDAR (Light Detection and Ranging) is technology that is currently being used for high-resolution topographic mapping by mounting a LIDAR sensor, integrated with Global Positioning System (GPS) and inertial measurement unit (IMU) technology, to the bottom of aircraft and measuring the pulse return rate to determine surface elevations.

FEMA Zone and Elevation: For each structure the FEMA Flood Insurance Rate Maps (FIRM) were researched for their Flood Zone designation and their Base Flood Elevation from the most recent FIRM maps for the specific Town. The elevations are provided in feet on the same datum as the FIRM maps (NGVD) with no adjustments or conversions.

<u>Structure Comments:</u> The engineering team provided a brief description and comment on the structure at the time of the field assessments which is provided in support of the condition rating that was given for the structure.

<u>Pictures:</u> At the time of the field assessments, digital photographs were taken to provide a general overview of the structure. The number of pictures was limited to a maximum of six. The first photograph for each structure is shown on the Structure Assessment Form. The list of all photographs is provided on the form.

Town Documents: Town documents represent the structure information that could be found in the Town's DPW/Engineering Department records. Where particular records could be found, a table of document information was developed and included within the database with limited descriptions.

BCE

I-5 Boston Harbor North

MA - DCR Documents: MA-DCR documents represent the structure information that could be found within DCR - Waterways office in Hingham Where particular records could be found, a table of document information was developed and included within the database with limited descriptions.

MA - DEP Chp. 91 Licenses: MA-DEP Chapter 91 license documents represent the structure information that could be found within MA-DEP Chp 91 records in Boston. Where particular records could be found, they were scanned as pdf files and attached to the structure through the GIS database information. In addition, a table of license document information was developed and included within the database with limited descriptions

<u>USACE Permits:</u> USACE Permits represent the structure information that could be found within the Army Corp of Engineers regulatory office in Concord, MA. Where particular records could be found, they were scanned as pdf files and attached to the structure through the GIS database information. In addition, a table of license document information was developed and included within the database with limited descriptions.

DEVELOPMENT OF REPAIR / RECONSTRUCTION COSTS

A matrix to be used within the database has been developed to assess likely rehabilitation/repair costs to restore the coastal structures to their original design condition. No attempt was made to assess the level of exposure and associated level of protection that might be required to meet current design standards for these structures. These costs are only an estimation to bring these structures back to their original design intent based on 2006 construction costs.

The development of the cost matrix is based on the following:

<u>Structure Condition Ratings</u> – The condition of the coastal structures was determined in the field by the survey crew which was led by an engineer with waterfront structure assessment and design experience. The definitions of the rating criteria utilized for the assessments are presented elsewhere.

The cost implications for each rating condition are as follows:

- A Rating Structures not requiring any maintenance, repair or rehabilitation cost and would not be expected to experience damage if subject to a major coastal storm event
- B Rating Structures requiring limited or no repair and would be expected to experience only minor damage if subject to a major coastal storm event. The value of these maintenance costs is assumed to be 10 percent of the construction cost.
- C Rating Structures requiring moderate to significant level of repair or reconstruction and would be expected to experience significant damage if subject to a major coastal storm event. The structure is presumed to be effective under a major storm event. The value of the repair costs is assumed to be 50 percent of the construction cost.
- D Rating Structures requiring significant level of rehabilitation or total reconstruction
 and would be expected to experience significant damage or possibly fail if
 subject to a major coastal storm event. The value of the repair costs is
 assumed to be 100 percent of the construction cost.

BCE

Boston Harbor North

• F Rating Structures requiring complete reconstruction and would expect to provide little or no protection from a major coastal storm event. The value of the repair costs is assumed to be 100 percent of the construction cost plus a cost for removal/disposal of the original structure.

<u>Height of Structure</u> – Height of a structure is a major factor in the structure cost and therefore was identified as a significant factor is assessing rehabilitation/repair construction costs. The structures were broken down into four major categories which were:

< 5'	Structures that were less than five feet in height
5'-10'	Structures five to 10 feet in height
10'-15'	Structures over 10 feet to 15 feet in height
> 15'	Structures greater than 15 feet in height – assumed 20 feet typical

<u>Length of Structure</u> – Length is based on field GPS location with measurements rounded to the nearest foot.

<u>Bulkhead / Seawall Structures</u> – These structures are assumed to be constructed out of concrete, steel, stone or wood with each having its own criteria for establishing costs. For each structure type the following was assumed:

- Concrete Seawalls These walls were assumed to be gravity structures with the volume
 of concrete used based on the bottom width being one-half of the structure height. Costs
 of construction were based on a per cubic yard estimate that varied from \$350 to \$630
 per cubic yard depending on the structure height. Values for excavation and demolition
 of existing structure were also included.
- Stone Seawalls These walls were treated the same as concrete seawalls and assumed to be gravity structures with the volume of the structure based on the bottom width being one-half of the structure height. Costs of construction were based on a per cubic yard estimate that varied from \$350 to \$630 per cubic yard depending on the structure height. Values for excavation and demolition of existing structure were also included.
- Steel Bulkheads Steel bulkheads were presumed to be constructed with steel sheet piling. Tie back systems were presumed for structures 10 feet or greater in height. Shorter walls were assumed to have a cantilever design. The total depth of sheeting was presumed to be two times the exposed height. The cost for construction varied from \$40 per square foot to \$60 per square foot plus the cost of excavation and demolition.
- Timber Bulkheads Timber bulkheads were presumed to be constructed with timber piles at eight foot on center, horizontal wales and vertical four inch sheathing. The unit costs for installed materials used were \$1,500 per pile and \$7.50 per bfm.

Revetment Structures – Revetment structures were presumed to be constructed of dry placed (no concrete) stone with a two on one slope and a horizontal toe and crown equal to the thickness layer established for each height condition. The total thickness of the revetment layers varied from six to ten feet with the cost of armor and under-layer stone assumed to be \$50 per ton and the crushed stone base to be \$15 per ton.

BCE

I-7 Boston Harbor North

<u>Groins and Jetties</u> – Groins and jetties were assumed to be the same materials and construction as the revetment structures but would have two sides and therefore double the quantities.

<u>Coastal Beaches</u> – Costs for restoration of Coastal beaches presumed the placement of beach renourishment sands at a 1-on-20 slope over the existing beach conditions. The cost for deposition of sand assumed relatively close source of material and utilized \$20 per cubic yard for the material installed.

<u>Coastal Dunes</u> – Restoration of coastal dunes assumed a cross section of renourished sand with a one-on-four slope on one side of a 25 foot width at the defined dune height. The cost for deposition of sand assumed relatively close source of material and utilized \$20 per cubic yard for the material installed.

<u>Contingency</u> – A contingency of 20 percent was added to all costs to reflect the unknowns associated with this level of rehabilitation/repair estimating.

<u>Engineering and Regulatory Approvals</u> – A ten percent increase to the cost matrix prices was assessed to represent the engineering design and regulatory approval requirements for the restoration of these structures.

I -8



Boston Harbor North

EXHIBIT A

Structure Condition Table – 5 Level Rating System

Co	liminary ndition essment	Definition Based Upon Perceived Immediacy of Action and Potential to Cause Damage if Not Corrected	Level of Action Required
A	Excellent	Like new condition. Structure expected to withstand major coastal storm without damage. Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm	None
В	Good	Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure	Minor
C	Fair	Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure.	Moderate
		Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide additional material for full protection and extended life	
D	Poor	Structure exhibits advanced levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure has strong risk of significant damage and possible failure during a major coastal storm Structure should be monitored until repairs/reconstruction can be initiated. Actions taken to reconstruct structure to regain full capacity to resist a major coastal storm.	Major
		Landform eroded, stability threatened. Landform not adequate to provide protection during major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	
		Conditions of structure/landform may warrant emergency stabilization as failure may result in potential loss of property and/or life. Landform eroded, loss of integrity	
F	Critical	Structure exhibits critical levels of deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure provides little or no protection from a major coastal storm. Actions taken to totally reconstruct structure to regain full capacity.	Immediate
		Landform stability is severely compromised, rate of erosion/material loss may be increasing, and landform does not provide adequate protection from a major coastal storm. Actions taken to recreate landform to adequate limits for full protection from a major coastal storm.	

I -9



EXHIBIT B Priority Rating System - 5 Level Rating System

Pric	eliminary ority Level ssessment	Level Based Upon Perceived Immediacy of Action and Presence of Potential Risk to Inshore Structures if Not Corrected	Level of Action Required
I	None	No Inshore Structures or Residential Dwelling Units Present	Long Term Planning Considerations
п	Low Priority	Inshore Structures Present with Limited potential for Significant Infrastructure Damage	Future Project Consideration
Ш	Moderate Priority	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)	Consider for Active Project Improvement Listing
IV	High Priority	High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)	Consider for Next Project Construction Listing
V	Immediate / Highest Priority	Critical Inshore Structures Present with Potential for Infrastructure Damage and/or High Density Residential Dwellings Conditions of structure may warrant emergency stabilization as failure may result in potential loss of property and/or life. (>10 dwellings impacted / 100 feet of shoreline)	Consider For Immediate Action Due to Public Safety and Welfare Issues

BCE

CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESMENT PROJECT

EXHIBIT C

REPAIR / REHABILITATION COSTING DATA

September 14, 2006

Cost per linear foot of structure

STRUCTURE TYPE	STRUCTURE MATERIALS	STRUCTURE HEIGHT	A	8	RUCTURE CONDITION R	ATING D	No. of E
BULKHEAD/ SEAWALL	CONCRETE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
	1	10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	STEEL	Under 5 Feet	\$0	\$54	\$273	\$546	\$680
	Ki Zikawa	5 To 10 Feet	\$0	\$165	\$825	\$1,650	\$1,848
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,772
		Over 15 Feet	\$0	\$343	\$1,716	\$3,432	\$3,795
	STONE	Under 5 Feet	\$0	\$84	\$425	\$850	\$983
		5 To 10 Feet	\$0	\$152	\$759	\$1,518	\$1,782
		10 To 15 Feet	\$0	\$251	\$1,254	\$2,508	\$2,970
		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$4,752
	WOOD	Under 5 Feet	\$0	\$86	\$431	\$862	\$994
		5 To 10 Feet	\$0	\$127	\$632	\$1,265	\$1,463
		10 To 15 Feet	\$0	\$161	\$804	\$1,608	\$1,872
A Company of the Comp		Over 15 Feet	\$0	\$202	\$1,008 -	\$2,017	\$2,380
	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
OASTAL BEACH		5 To 10 Feet	\$0	\$127	\$634	\$1,267	\$1,267
		10 To 15 Feet	\$0	\$224	\$1,122	\$2,244	\$2,244
 		Over 15 Feet	\$0	\$396	\$1,980	\$3,960	\$3,960
	SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
OASTAL DUNE		5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
		10 To 15 Fest	\$0	\$79	\$395	\$790	\$790
na) vyvasta na vaasta saata a		Over 15 Feet	\$0	\$132	\$660	\$1,320	\$1,320
EVETMENT	STONE	Under 5 Feet	\$0	\$66	\$333	\$664	\$730
		5 To 10 Feet	\$0	\$120	\$601	\$1,201	\$1,300
		10 To 15 Feet	\$0	\$157	\$781	\$1,564	\$1,696
		Over 15 Feet	\$0	\$247	\$1,234	\$2,468	\$2,666
ROIN	STONE	Under 5 Feet	\$0	\$132	\$664	\$1,328	\$1,460
		5 To 10 Feet	\$0	\$240	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$314	\$1,564	\$3,128	\$3,392
	I HIT IS LEV	Over 15 Feet	\$0	\$494	\$2,468	\$4,937	\$5,333

NOTE: Repair / Rehabilitation Costs include 10% for engineering and regulatory approvals and 20 % construction contingency.



I-11

Section II

Nahant



Section II - Community Findings - Town of Nahant

COMMUNITY DESCRIPTION

The Town of Nahant consists of a land area of 1.24 square miles out of a total area of 15.48 square miles and had a population of 3,632 in the 2000 census. The Town is located in Boston Harbor of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline is 11.2 miles that are directly exposed to open ocean. The town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Nahant, there were 25 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 8 in Section II-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Nahant

	Total		Str	ucture Conditio			
Primary Structure (1)	Structures	Α	В	с	D	F	Total Length
Bulkhead / Seawall	10		4	6			5280
Revetment	15	1		7	6	1	12560
Breakwater							
Groin / Jetty							
Coastal Dune							
Coastal Beach							
	25	1	4	13	6	1	17840

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Nahant's case there are a total of 24 structures which would require approximately \$ 17.8 million to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 5.2 million would be required to upgrade the Town's coastal protection.

BCE

II-A-1 Town of Nahant

	Total	Total Structure Condition Rating										
Primary Structure (1)	Structures		Α		В		С	 D		F	Tot	al Cost
Bulkhead / Seawall	10				\$713,565		\$4,429,418				\$	5,142,983
Revetment	15						\$7,422,749	\$4,953,036		\$266,435	\$	12,642,220
Breakwater										V===,	\$	-
Groin / Jetty											\$	_
Coastal Dune											\$	_
Coastal Beach											\$	-
	25	\$	-	\$	713,565	\$	11,852,167	\$ 4,953,036	\$	266,435	\$	17,785,203

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Nahant, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Nahant

	Total	Total Structure Condition Rating							_	
Primary Structure (1)	Structures	Α		B	С	D		F	Tot	al Cost
Town Owned	13			\$103,725	\$5,383,105	\$859,716			\$	6,346,546
Commonwealth of Massachusetts	12			\$609,840	\$6,469,062	\$4,093,320	\$	266,435	\$	11,438,657
Federal Government Owned									\$	-
Unknown Ownership									\$	-
	25	\$ -	\$	713,565	\$ 11.852.167	\$ 4.953.036	s	266,435	s	17.785.203

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section II-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Nahant's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

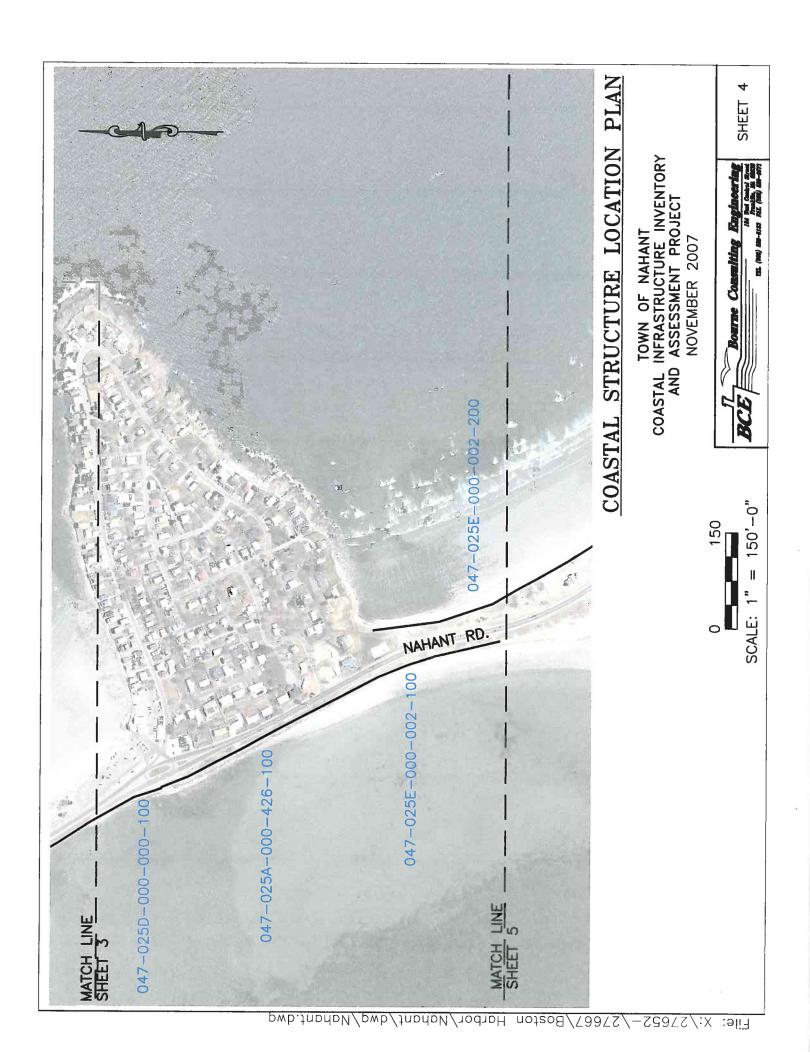


Section II - Nahant

Part B

Structure Assessment Reports





File: X:\27652—\27667\Boston Harbor\Nahant\dwq\Nahant.dwq





Structure Assessment Form

Town: Nahant

Structure ID: 047-002B-000-010-100

Property Owner:		Location:		Date:		
Local		Willow Road	and Cliff Street	the state of the s	5/31/2007	
Presumed Structur	e Owner:	Based On Cor	mment:	-		
Local	33.00					
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstruction/Rep	air Cost:	
Nahant		Unkown		\$483	1,338.00	
	levation: FIRM Map Zone:	FIRM Map Elevat	tion:		Company of the Compan	
195	V2		17			
Feet Feet N	NAVD 88	Feet NG	VD			
Primary Type:	Primary Material:	Primary Height:				
Revetment	Stone	Over 15 Feet				
Secondary Type:	Secondary Material:	Secondary Heigh	t:			
Structure Summary						
Dumped riprap slo	pe comprised of stones that weigh ustone. Private driveway and local re	p to 500 pounds.	Stones at the base	only are 1 to 2 ton. The slope is 1 to 1. Eros	sion	
present with loose	some. Private driveway and local re	oad inshore of slop	e.			
Condition	D		Priority	III	The state of the s	
Rating	Poor		Rating	Moderate Priority		
Level of Action	Major	Action		Consider for Active Project Improvement	- Colores	
Description	Structure exhibits advanced levels			Listing		
	deterioration, section loss, cracking undermining, and/or scour. Struct	ure has	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited		
	strong risk of significant damage a failure during a major coastal storr	nd possible n. Structure		Residential Dwellings (<1 dwelling impact 100 feet of shoreline)	:ted /	
	should be monitored until			,		
	repairs/reconstruction can be initia taken to reconstruct structure to re				0.00	
	capacity to resist a major coastal s Landform eroded, stability threater	torm.				
	Landform not adequate to provide					
	during major coastal storm. Action recreate landform to adequate limit	s taken to				
	protection from a major coastal sto	rm.				
Structure Image	es: Stru	cture Documen	nte:			
047-002B-000-010-		cture bocumen	16.		of the state of th	
					and the same of th	
					The date and	
					and the second s	

Structure Assessment Form

Town: Nahant

Structure ID: 047-003C-000-064-100

Property Owner:		Location:		Date:				
Local		Willow Road a	and Summer Street	t 5/31/2007				
Presumed Structure	e Owner:	Based On Con	Based On Comment:					
Local	<u> </u>							
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:				
Nahant	Nahant			\$162,162.00				
Length: Top E	levation: FIRM Map Zone: V2	FIRM Map Elevat	ion: 13					
Feet Feet N	IAVD 88	Feet NG\	/D					
Primary Type: Revetment Secondary Type:	Primary Material: Stone Secondary Material:	Primary Height: 5 to 10 Feet Secondary Height						
A mound of 4 inch		plocks standing at to	op of sl ope. Local	road directly inshore with houses across road.				
Condition	D		Priority	III				
Rating	Poor Major		Rating	Moderate Priority				
Level of Action Description	Structure exhibits advanced levels	of	Action	Consider for Active Project Improvement Listing				
Description	deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storn should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limit protection from a major coastal storn.	g, spalling, cure has and possible m. Structure ated. Actions egain full storm. ned. protection is taken to its for full	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)				
Structure Image 047-003C-000-064-		icture Documen	ts:					

Structure Assessment Form

Town: Nahant

Structure ID: 047-003C-000-095-100

Property Owner:			Location:			Date:
Local			Willow Road a	ind Wharf Street	•	5/31/2007
Presumed Structur	e Owner		Based On Comment:			
Local						
" Owner Name:			Earliest Structi	ure Record:	Estimated I	Reconstruction/Repair Cost:
Nahant			Unkown			\$29,990.00
	levation		FIRM Map Elevati			
355 Feet Feet N	NAVD 88	V2	Feet NGV	14 /D	The state of the s	
Primary Type:		Primary Material:	Primary Height:			
Bulkhead/ Seawall	<u> </u>	Stone	Under 5 Feet			-75
Secondary Type:		Secondary Material:	Secondary Height			
				_		1
Structure Summan	v :				\mathcal{A}	
over topping of wa	all). Top	all with park inshore. Minor of wall 12 inches wide.	i mortar ioss in Join	is. No wali movem	ent notea. M inor erosion i	nsnore (probably due to
Condition	В			Priority	1	
Rating	Good			Rating	None	
Level of Action	Minor			Action	Long Term Planning C	Considerations
Description	probler to land adequa coasta to prev	re observed to exhibit very ms, superficial in nature. Mi form is present. Structure ate to provide protection froi I storm with no damage. Ac ent / limit future deterioratio structure.	nor erosion / landform m a major ctions taken	Description	Units Present	or Residential Dwelling
Structure Image 047-003C-000-095	-100-PH	O1A.JPG	acture Documen	ts:		
0-11-0000-000-0 9 5	-100-64	O ID.JFG				

Structure Assessment Form

Town: Nahant

Structure ID: 047-003C-000-095-200

Property Owner:		Location:	Date:	
Local		Willow Road and Wharf	Street 5	5/31/2007
Presumed Structure	e Owner:	Based On Comment:		
Local			No. of the second	
Owner Name:		Earliest Structure Record	Estimated Reconstruction/Rep	air Cost:
Nahant		Unkown		3,309.00
	levation: FIRM Map Zone:	FIRM Map Elevation:		
145	V2	14		
Feet Feet N	AVD 88	Feet NGVD		
Primary Type:	Primary Material:	Primary Height:		
Revetment	Concrete	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height:		
Structure Summary	, :			
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during an storm. Actions taken to provide admaterial for full protection and extending lift.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	None Long Term Planning Considerations	elling
Structure Image 047-003C-000-095- 047-003C-000-095-	200-PHO2A.JPG	cture Documents:		

Structure Assessment Form

Town: Nahant

Structure ID: 047-003C-000-095-300

Property Owner:		Location:		Date:
Local		Summer Stree	t	5/31/2007
Presumed Structure	e Owner:	Based On Comment:		
Local			<u> </u>	
Owner Name:		Earliest Structu	ure Record:	Estimated Reconstruction/Repair Cost:
Nahant		Unkown		\$110,055.00
The second second	evation: FIRM Map Zone:	FIRM Map Elevati		
145 Foot N	V2		14	
	AVD 88	Feet NGV	D	
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Height: 5 to 10 Feet		
Secondary Type:	Secondary Material:	" Secondary Height	:	4 70
Structure Summary				Sec E. The Clark of the Control of t
Stone block seawal	(dry set) with concrete cap. Pave	d parking lot is loca	ted inshore. Gaps	between stones with slight movement of stones.
	•		_	
Condition Rating	C Fair		Priority Rating	l None
Level of Action	Moderate		Action	Long Term Planning Considerations
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken is structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a material for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Image 047-003C-000-095-		cture Documen	ts:	

Structure Assessment Form

Town: Nahant

Structure ID: 047-003C-000-095-400

Property Owner: Local Presumed Structure Owner: Local Owner Name: Nahant		Location:		Date: 5/31/2007		
		Summer Stree	et			
		Based On Con	nment:	Estimated Reconstruction/Repair Cost:		
		" Earliest Struct	ure Record:			
		Unkown		\$653,400.00		
Length: Top Elevation: FIRM Map Zone:		e: FIRM Map Elevat	ion:			
330		V2	14			
Feet Feet N	NAVD 88	Feet NG\	/D	The state of the s		
Primary Type:	Primary Material:	Primary Height:		THE RESERVE OF THE PARTY OF THE		
Bulkhead/ Seawall	Stone	Over 15 Feet				
Secondary Type:	Secondary Material:	Secondary Height	<u>:</u>			
Structure Summan						
outshore with build	areu) whan has a paved parking ding on it.	area on top. Moderat	e ioss of mortar wi	ith slight movement of stones is visible. Pier extends		
Condition	С		Priority	1		
Rating	Fair		Rating	None		
Level of Action	Moderate		Action	Long Term Planning Considerations		
Description	Structure is sound but may exterioration, section loss, craundermining, and/or scour. Str to withstand major coastal stor moderate damage. Actions tak structure to provide full protect coastal storm and for extendin structure. Moderate wind or w landform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and	cking, spalling, ucture adequate m with little to ten to reinforce ion from major g life of ave damage to y not be sufficient a major coastal e addition	Description	No Inshore Structures or Residential Dwelling Units Present		
Structure Image		Structure Documen	ts:			

Structure Assessment Form

Town: Nahant

Structure ID: 047-004B-000-017-100

Key: community-map-block-parcel-structure Property Owner: Location: Date: Local Cliff Street and Nahant Road 5/31/2007 Presumed Structure Owner: Based On Comment: Local Owner Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: Nahant 1960 \$73,735.00 Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

490 10 **V2** 26 Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Concrete Under 5 Feet Secondary Type: Secondary Material: Secondary Height: Revetment Stone Under 5 Feet



Structure Summary:

Precast concrete seawall with wave break face. 3 feet wide by 6 feet long concrete sections. Revetment sloped beneath and outshore of concrete seawall. Minor undermining of wall at eastern end (vertical 20 feet approximately). Stones are 200 to 800 pounds. Wall protects toe of 50 foot high earth slope with local road directly inshore.

Condition Good Rating Minor Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion

to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure.

Priority

Rating Moderate Priority

Consider for Active Project Improvement Action

Listing

Inshore Structures with potential for Description Infrastructure Damage and/or Limited

Residential Dwellings (<1 dwelling impacted /

100 feet of shoreline)

STATE OF THE PERSON STATE	Structure Images:	Structure Documents:				
	047-004B-000-017-100-PHO1A.JPG	USACE	May 12, 198	Emergency Slope	047-004B-000-017-100-COE1A	- Comment
	047-004B-000-017-100-PHO1B.JPG	MA-DCR	November 1	Proposed Concrete	047-004B-000-017-100-DCR1A	

Structure Assessment Form

Town: Nahant

Structure ID: 047-006-000-001-100

Property Owner:		Location:			Date:
Local		Marginal Road			5/31/2007
Presumed Structure	e Owner:	Based On Com	ment:		
Local	<u> </u>				
Owner Name:		Earliest Structu	re Record:	Estimated R	econstruction/Repair Cost:
Nahant		Unkown			\$372,794.00
Length: Top El	evation: FIRM Map Zone:	FIRM Map Elevation	on:		
135	15 V2	1	1		
Feet Feet N	AVD 88	Feet NGV	D		
Primary Type:	Primary Material:	Primary Height:	_		
Bulkhead/ Seawall	Concrete	Over 15 Feet			
Secondary Type:	Secondary Material:	Secondary Height:			
Revetment	Stone	10 to 15 Feet			
Structure Summary Stone block seawal Residential area ins pound stone dumper Condition	with concrete wall and cap. Wall the shore. Dumped riprap along wall be	top is 2 feet - 6 inch ise. 100 to 1500 po	und stones at a 1	te cracking, spacing and we to 2 slope. Western 500 f	eathering of wall.
Rating	Fair		Priority Rating	Moderate Priority	
Level of Action	Moderate		Action	Consider for Active Pro	ject Improvement
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structure to withstand major coastal storm with moderate damage. Actions taken it structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a night storm. Actions taken to provide ad material for full protection and extending for full protection and extending the structure.	t minor log, spalling, ure adequate with little to to reinforce from major fe of damage to the sufficient major coastal Idition		Listing Inshore Structures with Infrastructure Damage Residential Dwellings (100 feet of shoreline)	potential for and/or Limited
Structure Image 047-006-000-001-10		cture Document	s:		

Structure Assessment Form

Town: Nahant

Structure ID: 047-006-000-008-100

Property Owner:		Location:		Date:	
Local		Marginal Road			5/31/2007
Presumed Structur	re Owner:	Based On Com	ment:	U	
Local			<u> </u>		
Owner Name:		Earliest Structu	ire Record	Estimated Reconstruc	tion/Repair Cost:
Nahant		Unkown	TO RECOVE	Estimated Records de	\$1,339,107.00
Longthy Ton E	Countings FIDM May 7	FIDM May Flank			
Length: Top E	Elevation: FIRM Map Zone: V2	FIRM Map Elevation	on: 25	Egraphia .	
	NAVD 88	Feet NGV			
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	Over 15 Feet	_		
Secondary Type:	Secondary Material:	" Secondary Height:			
	- Secondary Fraterial.	Jecondary Height.	_		
Structure Summar	~ V:	7			
Rating Level of Action Description	Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structr to withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a ristorm. Actions taken to provide admaterial for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal ldition	Priority Rating Action Description	Moderate Priority Consider for Active Project Impro Listing Inshore Structures with potential Infrastructure Damage and/or Lir Residential Dwellings (<1 dwelling) 100 feet of shoreline)	for nited
Structure Image 947-006-000-008-1 947-006-000-008-1	00-PHO1A.JPG	octure Document	ts:		

Structure Assessment Form

Town: Nahant

Structure ID: 047-009-000-032-100

Property Owner:	Location:		D	ate:
Local	Willow Road			5/31/2007
Presumed Structure Owner:	Based On Com	ment:		
Local				
Owner Name:	Earliest Structu	re Record:	Estimated Rec	onstruction/Repair Cost:
Nahant	Unkown			\$1,498,530.00
Length: Top Elevation: FIRM Map Zone: 1195 11 V2 Feet Feet NAVD 88 Primary Type: Primary Material: Bulkhead/ Seawall Stone	FIRM Map Elevation Feet NGV Primary Height: 10 to 15 Feet	.2		
Secondary Type: Secondary Material:	Secondary Height:	<u></u>		
Structure Summary: Mortared stone block seawall with coastal sand beach of 2 feet wide with 4 feet wide paved walkway inshore. The Minor scour at base for one 30 feet section near center.	he middle third of t	the wall has mode	rate mortar loss. No noticeat	rn 250 feet. Wall top is ole wall movement.
Condition C		Priority	IV	
Rating Fair		Rating	High Priority	
Level of Action Moderate		Action	Consider for Next Project	Construction Listing
Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structure to withstand major coastal storm with moderate damage. Actions taken to structure to provide full protection fit coastal storm and for extending life structure. Moderate wind or wave of landform exists. Landform may not to fully protect shoreline during a mostorm. Actions taken to provide additional material for full protection and extending the structure.	g, spalling, re adequate ith little to o reinforce rom major of damage to be sufficient ajor coastal lition	Description	High Value Inshore Struct for Infrastructure Damage Density Residential Dwelli impacted / 100 feet of sho	and/or Moderate ings (1-10 dwellings
047-009-000-032-100-PHO1A.JPG	cture Document	s:		
047-009-000-032-100-PHO1B.JPG				
047-009-000-032-100-PHO1C.JPG				

Structure Assessment Form

Town: Nahant

Structure ID: 047-012-000-034-100

Property Owner:		Location:		Date:
Local	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Willow Road		5/31/2007
Presumed Structure	e Owner:	Based On Comment:		•
Local				
Owner Name:		" Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
Nahant		Unkown		\$678,810.00
	levation: FIRM Map Zone:	FIRM Map Elevati		
550	V2		13	
Feet Feet N	AVD 88	Feet NG\	/D	
Primary Type:	Primary Material:	Primary Height:	<u></u>	
Revetment	Stone	Over 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height	<u>:</u>	
inshore. Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Struct to withstand major coastal storm v moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may no to fully protect shoreline during a n storm. Actions taken to provide admaterial for full protection and extending life.	minor g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Priority Rating Action Description	I None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present
Structure Image 047-012-000-034-1	00-PHO1A.JPG	octure Documen	ts:	

Structure Assessment Form

Town: Nahant

Structure ID: 047-012F-000-00BH-100

Property Owner:		Location:		Date:
Local		Bass Point Ro	oad	5/31/2007
Presumed Structure	e Owner:	Based On Co	mment:	,
Local	- <u> </u>			The state of the s
Owner Name:		Earliest Struc	tura Pacard	Estimated Percentruction/Penair Costs
Nahant		Unkown	ture Record.	Estimated Reconstruction/Repair Cost: \$617,100.00
J				
Length: Top E	levation: FIRM Map Zone: V2	FIRM Map Eleva	tion:	
l į	IAVD 88	Feet NG		
			VD	A ALLEN
Primary Type: Revetment	Primary Material: Stone	Primary Height: Over 15 Feet		
Secondary Type:	•	•		
Secondary Type:	Secondary Material:	Secondary Heigh	ıc:	
Structure Summan		1		(1) 有数 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Structure Summary Dumped riprap slo		up to 500 pounds.	Approximately 1 or	n 4 slope. Park located inshore. Slope extends
almost to mean lov	w water.			
Condition	С		Priority	ì
Rating	Fair		Rating	None
Level of Action	Moderate		Action	Long Term Planning Considerations
Description	Structure is sound but may exhib deterioration, section loss, cracki undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wave landform exists. Landform may not of ully protect shoreline during a storm. Actions taken to provide a material for full protection and existing the structure of the store of the structure.	ng, spalling, ture adequate with little to to reinforce I from major fe of de damage to ot be sufficient major coastal ddition	Description	No Inshore Structures or Residential Dwelling Units Present
	es: Str H-100-PHO1A.JPG H-100-PHO1B.JPG	ucture Docume	nts:	

Structure Assessment Form

Town: Nahant
Structure ID: 047-023-000-066-100

Property Owner:		Location:		Date:	
Local		Castle Road			5/31/2007
Presumed Structure	e Owner:	Based On Comm	nent:	•	
Local					
Owner Name:	Owner Name:		e Record:	Estimated Reconstru	ıction/Renzir Cost·
Nahant		Unkown	- 1000.01	Estinated Necolisti C	\$216,216.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation	1.		
180	V4	12			11000
Feet Feet N	IAVD 88	Feet NGVD			
Primary Type:	Primary Material:	Primary Height:			
Revetment	Stone	5 to 10 Feet		- 9	i i
Secondary Type:	Secondary Material:	Secondary Height:			
			•		
Structure Summary	':				2.564
Condition Rating Level of Action Description	Poor Major Structure exhibits advanced levels deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storr should be monitored until repairs/reconstruction can be initia taken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limit protection from a major coastal storm.	s of g, spalling, ture has and possible m. Structure ated. Actions egain full storm. ned. protection is taken to its for full	Priority Rating Action Description	II Low Priority Future Project Consideration Inshore Structures Present with potential for Significant Infrastru	
Structure Image 047-023-000-066-1		icture Documents	:		

Structure Assessment Form

Town: Nahant

Structure ID: 047-025A-000-426-100

Property Owner:		Location:		Date:
State		Nahant Roa	d	5/31/2007
Presumed Structur	e Owner:	Based On Co	omment:	,
State	<u> </u>			
Owner Name:		Farliest Stru	cture Record:	Estimated Reconstruction/Repair Cost:
MA-DCR		1933		\$883,027.00
ength: Top E	levation: FIRM Map	Zone: FIRM Map Eleva	ation:	
1130	12	V2	13	
Feet Feet M	NAVD 88	Feet No	GVD	
Primary Type:	Primary Material:	Primary Height:		
Revetment	Stone	10 to 15 Feet		and the second
Secondary Type:	Secondary Material:	Secondary Heig	ht:	
				A property of
Structure Summar	<i>i</i> :			
bout 20 feet insh	ore.		D. 1. 1.	
Condition	Fair		Priority	II Low Priority
Rating Level of Action			Rating Action	Low Priority Future Project Consideration
Level of Action Description Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structure to withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave		cracking, spalling, Structure adequate storm with little to taken to reinforce tection from major iding life of	Description	Inshore Structures Present with Limited potential for Significant Infrastructure Damage
	to fully protect shoreline du storm. Actions taken to pro material for full protection a	vide addition		
tructure Image	es: -100-PHO1A.JPG	Structure Docume	ents: August 1933 Prop	posed Shore 047-025A-000-426-100-DCR1A
	-100-PHO1B.JPG	INV-DOL	nugusi 1900 JP10p	1047-023A-000-426-100-DCRTA
++	- IVU-PHO IB.JPG			

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-100

Key: community-map-block-parcel-structure

Property Owner: State			Location: Nahant Road			Date:	
						5/31/2007	
Presumed Structu	re Owner:	Based	On Comment:				
State					1 826, 11,00 - 2 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u> </u>	
Owner Name:		Earlies	st Structure Record:	F	stimated Reconstruct	ion/Repair Cost	
MA-DCR		1913			Samuelou Reconlocace	\$788,205.00	
ength: Top I	Elevation: FIRM	Map Zone: FIRM Ma	p Elevation:				
425		V4	13			4 R	
Feet Feet	NAVD 88	F	eet NGVD				
Primary Type:	Primary Mater	ial: Primary H	leight:				
Bulkhead/ Seawa		10 to 15		3		**************************************	
Secondary Type:	Secondary Mate	erial: Secondar	v Height:	1/11	34.77		
Revetment	Stone	5 to 10 F					
Structure Summar	v ·	,			EN ESTATE OF THE STATE OF THE S		
Level of Action Description	undermining, and/or si to withstand major coa moderate damage. Ac structure to provide ful coastal storm and for structure. Moderate w	oss, cracking, spalling, cour. Structure adequa astal storm with little to tions taken to reinforce II protection from major extending life of vind or wave damage to form may not be sufficie	te ent	n High Value In for Infrastruc Density Resi	Next Project Constru- nshore Structures wi ture Damage and/or dential Dwellings (1- 00 feet of shoreline)	th Potential Moderate	
	to fully protect shoreling storm. Actions taken to material for full protect	o provide addition					
tructure Imag	to fully protect shorelir storm. Actions taken to material for full protect	o provide addition lion and extended life.	cuments:				
tructure Imag 47-025D-000-000	to fully protect shorelir storm. Actions taken to material for full protect	o provide addition		Nahant Beach	047-025D-000-00	00-100-DCR1A	
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect	o provide addition lion and extended life. Structure Do	11/3/1913	Nahant Beach Nahant Beach	047-025D-000-00		
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect material for full protect es: es:	o provide addition ion and extended life. Structure Do	3/23/1914		047-025D-000-00	00-100-DCR1B	
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect material for full protect es: es:	Structure Do MA-DCR	11/3/1913 3/23/1914 12/18/1916	Nahant Beach Nahant Beach	047-025D-000-00	00-100-DCR1B 00-100-DCR1C	
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect material for full protect es: es:	Structure Do MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933	Nahant Beach	047-025D-000-00 047-025D-000-00 047-025D-000-00	00-100-DCR1B 00-100-DCR1C 00-100-DCR1D	
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect material for full protect es: es:	Structure Do MA-DCR MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933 1/22/1947	Nahant Beach Nahant Beach Nahant Beach Nahant Beach	047-025D-000-00 047-025D-000-00 047-025D-000-00 047-025D-000-00	00-100-DCR1B 00-100-DCR1C 00-100-DCR1D 00-100-DCR1E	
47-025D-000-000	to fully protect shoreling storm. Actions taken to material for full protect material for full protect es: es:	Structure Do MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933 1/22/1947 6/9/1961	Nahant Beach Nahant Beach Nahant Beach	047-025D-000-00 047-025D-000-00 047-025D-000-00 047-025D-000-00 047-025D-000-00	00-100-DCR1B 00-100-DCR1C 00-100-DCR1D 00-100-DCR1E 00-100-DCR1F	

4/30/1969

September 1

Nahant Beach

Nahant Beach

MA-DCR

MA-DCR

047-025D-000-000-100-DCR1I

047-025D-000-000-100-DCR1J

Structure Assessment Form

Town: Nahant
Structure ID: 047-025D-000-000-100

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-100-DCR1K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-100-DCR1L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-200

Key: community-map-block-parcel-structure

Property Owner:			ocation:		Date:
State			Nahant Road	· · · · · · · · · · · · · · · · · · ·	5/31/2007
Presumed Structur	re Owner:	" E	Based On Comment:		1
State					
" Owner Name:		, F	Earliest Structure Record	d:	Estimated Reconstruction/Repair Cost:
MA-DCR			1913		\$520,740.00
Length: Top E	Elevation: FIRM N	lap Zone: FIRI	M Map Elevation:		
1315		. V4	13		1
Feet Feet N	NAVD 88		Feet NGVD		
Primary Type:	Primary Materi	al: Prim	ary Height:		
Bulkhead/ Seawall	Concrete		r 15 Feet		
Secondary Type:	Secondary Mate	erial: Seco	ondary Height:		
Structure Summan	v :				
Condition Rating Good Level of Action Description Structure observed to exhibit very problems, superficial in nature. Mi to landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.			osion form ajor taken	Consection High for It Dens	a Priority sider for Next Project Construction Listing a Value Inshore Structures with Potential infrastructure Damage and/or Moderate sity Residential Dwellings (1-10 dwellings acted / 100 feet of shoreline)
Structure Image			e Documents:		
047-025D-000-000		MA-DCR	11/3/1913	Nahant Beac	· · · · · · · · · · · · · · · · · · ·
		MA-DCR	3/23/1914	Nahant Beac	
v+1-U23D-UUU-UUU-	-200-PHO2C.JPG	MA-DCR	12/18/1916	Nahant Beac	
		MA-DCR	6/7/1933	Nahant Beac	<u>'</u>
		MA-DCR	1/22/1947	Nahant Beac	
		MA-DCR	6/9/1961	Nahant Beac	
		MA-DCR	December 1	Cross-Sectio	
		MA-DCR	11/24/1964	Nahant Beac	
		MA-DCR	4/30/1969	Nahant Beac	h 047-025D-000-000-200-DCR2I

September 1

Nahant Beach

MA-DCR

047-025D-000-000-200-DCR2J

Structure Assessment Form

Town: Nahant
Structure ID: 047-025D-000-000-200

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-200-DCR2K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-200-DCR2L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-300

Key: community-map-block-parcel-structure

Property Owner:			Locatio	n:		Date:
State			Nahant R	Road	5/31/2007	
Presumed Structure Owner:		Based Or	Comment:		•	
State				 	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Owner Name:			Earliest S	structure Record:		Estimated Reconstruction/Repair Cost:
MA-DCR		1913			\$1,006,434.00	
	Elevation:	FIRM Map Zone:	FIRM Map E	levation:		
390		V4		13		
Feet Fee	t NAVD 88		Feet	t NGVD		
rimary Type:		Primary Material:	Primary Heig	jht:		- A
Bulkhead/ Seaw	rall	Concrete	Over 15 Fee	21 2 2222		1
econdary Type:	:	Secondary Material:	Secondary H	leight:		
Revetment		Stone	5 to 10 Feet			
tructure Summa	arv :					
evel of Action Description	Structure deterior undermotermotermotermotermotermotermotermot	re is sound but may exhibit ration, section loss, crackin ining, and/or scour. Structutand major coastal storm to te damage. Actions taken to provide full protection storm and for extending life. Moderate wind or waven exists. Landform may no protect shoreline during a ractions taken to provide ad I for full protection and extending life.	ng, spalling, ure adequate with little to to reinforce from major e of damage to the sufficient major coastal ldition	Action Descript	ion High Va for Infra Density	er for Next Project Construction Listing alue Inshore Structures with Potential astructure Damage and/or Moderate r Residential Dwellings (1-10 dwellings ed / 100 feet of shoreline)
ructuro Ima	goci	C	D			
tructure Ima			octure Docur	11/3/1913	Nahant Beach	047-025D-000-000-300-DCR3A
7-025D-000-00				3/23/1914	Nahant Beach	047-025D-000-000-300-DCR3A
		MA-		12/18/1916	Nahant Beach	047-025D-000-000-300-DCR3B
		MA-		6/7/1933	Nahant Beach	
		MA-I		1/22/1947	Nahant Beach	047-025D-000-000-300-DCR3D
		JWA-1			1	047-025D-000-000-300-DCR3E
		<u>.</u>		6/9/1961	Nahant Beach	047-025D-000-000-300-DCR3F
		MA-I		December 1	Cross-Sections	
		MA-I	DCR	11/24/1964	Nahant Beach	047-025D-000-000-300-DCR3H

4/30/1969

September 1

Nahant Beach

Nahant Beach

MA-DCR

MA-DCR

047-025D-000-000-300-DCR3I

047-025D-000-000-300-DCR3J

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-300

MA-DCR	5/22/1972	Nahant Abeach	047-025D-000-000-300-DCR3K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-300-DCR3L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-400

Key: community-map-block-parcel-structure

Property Owner:		Location	n:	1	Date:	
State		Nahant R	toad	· · · · · · · · · · · · · · · · · · ·		5/31/2007
Presumed Structur	e Owner:	" Based On	Comment:		ų	
State	<u> </u>				The state of the s	
Owner Name:		? Farliest S	tructure Record:		Estimated Reconstruc	tion/Penair Cost
MA-DCR	<u> </u>	1913	a detare record.		Lauriated Records de	\$3,328,934.00
Length: Top E	levation: FIRM Map	Zone: FIRM Map El	evation: 13			
	IAVD 88	1	: NGVD	4		
Primary Type:	Primary Material:	Primary Heig				12
Revetment	Stone	10 to 15 Fee				
Secondary Type:	Secondary Material			N. C.		
			3''-			
Structure Summar	/:	,				
Rating Level of Action Description	Fair Moderate Structure is sound but may deterioration, section loss, undermining, and/or scour to withstand major coastal moderate damage. Actionstructure to provide full procoastal storm and for extestructure. Moderate wind landform exists. Landform to fully protect shoreline distorm. Actions taken to promaterial for full protection	cracking, spalling, Structure adequate storm with little to s taken to reinforce otection from major nding life of or wave damage to may not be sufficient uring a major coastal ovide addition	Priority Rating Action Descript	ion High Value for Infrastru Density Re	or Next Project Constructures was ture Damage and/or sidential Dwellings (100 feet of shoreline)	ith Potential Moderate -10 dwellings
Structure Image	20.	Structure Docur	mentc:			
047-025D-000-000		MA-DCR	11/3/1913	Nahant Beach	047-025D-000-0	00-400-DCR4A
047-025D-000-000	400-PHO4B.JPG	MA-DCR	3/23/1914	Nahant Beach	047-025D-000-0	
047-025D-000-000	400-PHO4C.JPG	MA-DCR	11666	Nahant Beach	047-025D-000-0	
		MA-DCR	6/7/1933	Nahant Beach	047-025D-000-0	00-400-DCR4D
		MA-DCR	1/22/1947	Nahant Beach	047-025D-000-0	00-400-DCR4E
		MA-DCR	6/9/1961	Nahant Beach	047-025D-000-0	00-400-DCR4F
		MA-DCR	December 1	Cross-Sections -	047-025D-000-0	00-400-DCR4G
		MA-DCR	11/24/1964	Nahant Beach	047-025D-000-0	00-400-DCR4H

4/30/1969

September 1

Nahant Beach

Nahant Beach

MA-DCR

MA-DCR

047-025D-000-000-400-DCR4I

047-025D-000-000-400-DCR4J

Structure Assessment Form

Town: Nahant
Structure ID: 047-025D-000-000-400

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-400-DCR4K
MA-DCR	Sugust 1972	Nahant Beach	047-025D-000-000-400-DCR4L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-500

Key: community-map-block-parcel-structure

Property Owner:		74.47	Location	1:		Date:	
Unknown			Nahant Road				5/31/200
Presumed Structur	re Owner:		Based On Comment:				
State							
Owner Name:			1 Earliest St	ructure Record:		Estimated December of	ian/Dannis Cash
MA-DCR	- v	<u> </u>	1913	ructure Record:	_	Estimated Reconstruct	\$89,100.00
			1				ψ05,100.00
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	levation:	FIRM Map Zone:	FIRM Map Ele				
500	10	V4		13			
Feet Feet I	NAVD 88		Feet	NGVD			
rimary Type:		ary Material:	Primary Heigl	ht:			
ulkhead/ Seawali	Con	crete	5 to 10 Feet				
econdary Type:	Seco	ndary Material:	Secondary He	eight:			23/2
oastal Beach	San	d	Under 5 Feet				
tructure Summan	y:						
oncrete barri er w	all built at top	of beach (about 5 fe	et above mean	high water). Pr	otects Department of	Conservation and Recr	eation
uilding. Sand ap	pears to be du	imped and graded out	tshore of wall.				
7 7							
ondition	B Good			Priority	- 	Deineite	
ating evel of Action	Minor			Rating	Moderate	Priority for Active Project Impro	vomont
ever of Action Description		served to exhibit very	minor	Action	Listing	of Active Project Impro	vement
•	to landform adequate to coastal storn	uperficial in nature. Mis present. Structure provide protection from with no damage. A limit future deterioratione.	/ landform m a major ctions taken	Descript	Infrastruct Residentia	ructures with potential f ure Damage and/or Lim al Dwellings (<1 dwellin f shoreline)	ited
Brown and the second							
ructure Image			ucture Docum				
7-025D-000-000			DCR	11/3/1913	Nahant Beach	047-025D-000-00	0-500-DCR5A
7-025D-000-000	-500-PHO5B.	JPG MA-	DCR	3/23/1914	Nahant Beach	047-025D-000-00	0-500-DCR5B
		MA-	DCR	12/18/1916	Nahant Beach	047-025D-000-00	0-500-DCR5C
		MA-	DCR	6/7/1933	Nahant Beach	047-025D-000-00	0-500-DCR5D
		MA-	DCR	1/22/1947	Nahant Beach	047-025D-000-00	0-500-DCR5E
		MA-	DCR	6/9/1961	Nahant Beach	047-025D-000-00	0-500-DCR5F
		MA-	DCR	December 1	Cross-Sections -	047-025D-000-00	0-500-DCR5G
		MA-	DCR	11/24/1964	Nahant Beach	047-025D-000-00	
		<u> </u>	DCR	4/30/1969	Nahant Beach	047-025D-000-00	

September 1

Nahant Beach

MA-DCR

047-025D-000-000-500-DCR5J

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-500

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-500-DCR5K	=
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-500-DCR5L	-

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-600

Key: community-map-block-parcel-structure

State		Locat	ion:		Date:	
		Nahan	t Road	· · · · · · · · · · · · · · · · · · ·		5/31/200
Presumed Structure	Owner:	, Based (On Comment:		u	
State	<u> </u>		<u> </u>	<u> بر پر ایک دید وسموستی</u>		
Owner Name:		: Earliest	: Structure Record:		Estimated Reconstruction	n/Renair Coct
MA-DCR		1913			and reconstruction	\$0.00
Length: Top Ele	ovation. FIDM Man Zon	a. FIDM Man	Claudian			
345 Top ER	evation: FIRM Map Zon	e: FIRM Map	13	Standard .		
Feet Feet N	1	1	eet NGVD		Secretary Williams	
Primary Type:	Primary Material:	Primary He				
Revetment	Stone	5 to 10 Fe				
Secondary Type:	Secondary Material:	Secondary	Height:			
	Jacob Mary Fluction	Secondary	gires			
Structure Summary	•					
Placed riprap slope	along boat ramp parking area.	The typical stor	ne size is approxim	ately 1000 pounds. S	lope is toed into mud. V	Vell
constructed and in	good condition.					
Condition	Α		Priority	1		
Rating	Excellent		Rating	None		
Level of Action	None		Action	Long Term	Planning Consideration	s
	Like new condition. Structure e withstand major coastal storm Stable landform (beach, dune Adequate system exists to pro from major coastal storm.	without damage or bank).	Descript.	ion No Insnore Units Prese	Structures or Residenti int	al Dwelling
	nom major obabitar storm.					
			·			
Structure Image	c· C	Structure Doc	uments:			
		tructure Doc		Nahant Beach	047-025D-000-000	-600-DCR6A
47-025D-000-000-6	600-PHO6A.JPG		11/3/1913	Nahant Beach	047-025D-000-000	
47-025D-000-000-6	600-PHO6A.JPG 600-PHO6B.JPG	A-DCR	3/23/1914	Nahant Beach	047-025D-000-000	-600-DCR6B
47-025D-000-000-6	600-PHO6A.JPG N 600-PHO6B.JPG N	MA-DCR MA-DCR MA-DCR	3/23/1914 12/18/1916	Nahant Beach Nahant Beach	047-025D-000-000	-600-DCR6B -600-DCR6C
tructure Image: 47-025D-000-000-6 47-025D-000-000-6	600-PHO6A.JPG N 600-PHO6B.JPG N	MA-DCR MA-DCR	3/23/1914 12/18/1916 6/7/1933	Nahant Beach Nahant Beach Nahant Beach	047-025D-000-000 047-025D-000-000 047-025D-000-000	-600-DCR6B -600-DCR6C -600-DCR6D
47-025D-000-000-6	MOO-PHO6A.JPG MOO-PHO6B.JPG MOO-PHO6B.JPG	MA-DCR MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933 1/22/1947	Nahant Beach Nahant Beach Nahant Beach Nahant Beach	047-025D-000-000 047-025D-000-000 047-025D-000-000	-600-DCR6B -600-DCR6C -600-DCR6D -600-DCR6E
47-025D-000-000-6	N N N N N N N N N N N N N N N N N N N	MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933 1/22/1947 6/9/1961	Nahant Beach Nahant Beach Nahant Beach Nahant Beach Nahant Beach	047-025D-000-000 047-025D-000-000 047-025D-000-000 047-025D-000-000 047-025D-000-000	-600-DCR6B -600-DCR6C -600-DCR6D -600-DCR6E -600-DCR6F
47-025D-000-000-6	MOO-PHO6A.JPG MOO-PHO6B.JPG MOO-PHO6B.JPG MOO-PHO6B.JPG MOO-PHO6B.JPG	MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR	11/3/1913 3/23/1914 12/18/1916 6/7/1933 1/22/1947	Nahant Beach Nahant Beach Nahant Beach Nahant Beach	047-025D-000-000 047-025D-000-000 047-025D-000-000	-600-DCR6B -600-DCR6C -600-DCR6D -600-DCR6E -600-DCR6F -600-DCR6G

September 1

Nahant Beach

MA-DCR

047-025D-000-000-600-DCR6J

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-600

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-600-DCR6K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-600-DCR6L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-700

Key: community-map-block-parcel-structure

Property Owner:		Locat	tion:		Date:
State		Nahar	nt Road		5/31/2007
Presumed Structure	e Owner:	Based	On Comment:		
State				· · · · · · · · · · · · · · · · · · ·	
Owner Name:		Earlies	st Structure Record:		Estimated Reconstruction/Repair Cost:
MA-DCR		1913			\$78,210.00
ength: Top E	levation: FIRM Ma p	Zone: FIRM Mar	Elevation:		
50		V4	13	44-	-real T
Feet Feet N	IAVD 88	F	eet NGVD		
Primary Type:	Primary Material:	Primary H	leight:		
Revetment	Stone	10 to 15	Feet	A Part of the Part	
econdary Type:	Secondary Materia	: Secondar	y Height:		
				75	
Structure Summary			(45.5)		ourts inshore. Slope is steep and in
Condition Rating Level of Action Description	Poor Major Structure exhibits advance deterioration, section loss undermining, and/or scou strong risk of significant d failure during a major coa should be monitored until repairs/reconstruction car taken to reconstruct struct capacity to resist a major Landform eroded, stability Landform not adequate to during major coastal stom recreate landform to adequate to drive the stability control of	, cracking, spalling, r. Structure has amage and possible stal storm. Structure to be initiated. Actionate to regain full coastal storm. In threatened. In provide protection actions taken to uate limits for full	•		Planning Considerations Structures or Residential Dwelling int
tructure Image	es:	Structure Do	cuments:		
47-025D-000-000-	700-PHO7A.JPG	MA-DCR	11/3/1913	Nahant Beach	047-025D-000-000-700-DCR7A
		MA-DCR	3/23/1914	Nahant Beach	047-025D-000-000-700-DCR7B
		MA-DCR	12/18/1916	Nahant Beach	047-025D-000-000-700-DCR7C
		MA-DCR	6/7/1933	Nahant Beach	047-025D-000-000-700-DCR7D
		MA-DCR	1/22/1947	Nahant Beach	047-025D-000-000-700-DCR7E
		MA-DCR	6/9/1961	Nahant Beach	047-025D-000-000-700-DCR7F
		MA-DCR	December 1	Cross-Sections -	047-025D-000-000-700-DCR7G
		MA-DCR	11/24/1964	Nahant Beach	047-025D-000-000-700-DCR7H
		MA-DCR	4/30/1969	Nahant Beach	047-025D-000-000-700-DCR7I

September 1

Nahant Beach

MA-DCR

047-025D-000-000-700-DCR7J

Structure Assessment Form

Town: Nahant
Structure ID: 047-025D-000-000-700

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-700-DCR7K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-700-DCR7L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025D-000-000-800

Key: community-map-block-parcel-structure

Property Owner:		Location	n:		Date:
State		Nahant R	load	4,,	5/31/2007
Presumed Structur	e Owner:	Based On	Comment:		
State	and the second s		- **		
Owner Name:		il Farliect Si	tructure Record:		Estimated December sties (Density Control
MA-DCR		1913	uucture Record:		Estimated Reconstruction/Repair Cost: \$266,435.00
1		j			1 4255/188.00
	levation: FIRM Map Zone:	FIRM Map El			
365	11 V4	1	13		SCHOOL STATIONARY STATE OF THE SCHOOL STATE OF
Feet Feet N	NAVD 88	Feet	NGVD		
Primary Type:	Primary Material:	Primary Heig	y ,,		
Revetment	Stone	Under 5 Fee	t		
Secondary Type:	Secondary Material:	Secondary H	eight:		The same of the sa
		1			
Structure Summan					
Journal of the state of th	of dumped riprap is comprised of s	wies ulat VII d	verage are 500	m roon hon	ius.
Condition	F		Priority	1	
Rating	Critical		Rating		lone
Level of Action Description	Immediate Conditions of structure/landform		Action	L	ong Term Planning Considerations
	emergency stabilization as failure potential loss of property and/or li eroded, loss of integrity. Structure critical levels of deterioration, sec cracking, spalling, undermining, a Structure provides little or no prot major coastal storm. Actions take reconstruct structure to regain full Landform stability is severely comrate of erosion/material loss may and landform does not provide ad protection from a major coastal staken to recreate landform to ade for full protection from a major coastal.	fe. Landform e exhibits tion loss, ind/or scour. ection from a in to totally capacity. ipromised, be increasing, equate orm. Actions quate limits		U	inits Present
tructure Image	es: Stro	ucture Docur	ments:		
047-025D-000-000-	-800-PHO8A.JPG MA-	DCR	11/3/1913	Nahant B	each 047-025D-000-000-800-DCR8A
)47-025D-000-000-	800-PHO8B.JPG MA	DCR	3/23/1914	Nahant B	each 047-025D-000-000-800-DCR8B
47-025D-000-000-	800-PHO8C.JPG MA-	DCR	12/18/1916	Nahant B	each 047-025D-000-000-800-DCR8C
	MA-	DCR	6/7/1933	Nahant Be	each 047-025D-000-000-800-DCR8D
	MA-	DCR	1/22/1947	Nahant Be	each 047-025D-000-000-800-DCR8E
	MA-	DCR	6/9/1961	Nahant Be	each 047-025D-000-000-800-DCR8F
	MA-	DCR	December 1	Cross-Sec	ctions - 047-025D-000-000-800-DCR8G
	MA-	DCR	11/24/1964	Nahant Be	each 047-025D-000-000-800-DCR8H
	MA-	DCR	4/30/1969	Nahant Be	each 047-025D-000-000-800-DCR8I

MA-DCR

047-025D-000-000-800-DCR8J

Nahant Beach

September 1

Structure Assessment Form

Town: Nahant
Structure ID: 047-025D-000-000-800

MA-DCR	5/22/1972	Nahant Beach	047-025D-000-000-800-DCR8K
MA-DCR	August 1972	Nahant Beach	047-025D-000-000-800-DCR8L

Structure Assessment Form

Town: Nahant

Structure ID: 047-025E-000-001-100

		Location:	Date:
State		Nahant Road	5/31/2007
Presumed Structur	e Owner:	Based On Comment:	
State			
Owner Name:		Earliest Structure Record:	Estimated Reconstruction/Repair Cost:
MA-DCR		Unkown	\$2,549,646.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation:	
1630	V2	16	de la constant
Feet Feet N	IAVD 88	Feet NGVD	
Primary Type:	Primary Material:	Primary Height:	
Revetment	Stone	10 to 15 Feet	· (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Secondary Type:	Secondary Material:	Secondary Height:	
Structure Summary	<i>i</i> :		A STATE OF THE STA
Condition	ark area and local road inshore. E	astern 500 feet has been rebuilt with Priority	500 to 2000 pound stones dumped at a 1 to 3 slope.
Rating	Poor	Rating	Low Priority
Level of Action	Major	Action	Future Project Consideration
Description	Structure exhibits advanced leve deterioration, section loss, cracki undermining, and/or scour. Strustrong risk of significant damage failure during a major coastal sto should be monitored until repairs/reconstruction can be init taken to reconstruct structure to	ing, spalling, cture has and possible rm. Structure	Inshore Structures Present with Limited potential for Significant Infrastructure Damage
	capacity to resist a major coastal Landform eroded, stability threate Landform not adequate to provid during major coastal storm. Action recreate landform to adequate line protection from a major coastal storm.	ened. e protection ins taken to nits for full	

Structure Assessment Form

Town: Nahant

Structure ID: 047-025E-000-002-100

Property Owner:		Location:			Pate:
State		Nahant Road			5/31/2007
Presumed Structur	e Owner:	Based On Con	nment:	,	
State			· · · · · · · · · · · · · · · · · · ·	the state of the state of	
Owner Name:		Earliest Struct	ure Pecord	Estimated Dec	onstruction/Repair Cost:
MA-DCR		Unkown	die Recolu.	Estillated Rec	\$462,462.00
Length: Top E	levation: FIRM Map Zone:		ion: 12		
1	IAVD 88	Feet NG			
			VD		
Primary Type: Revetment	Primary Material: Stone	Primary Height: 5 to 10 Feet		A A STATE OF THE S	
•		,	.		
Secondary Type:	Secondary Material:	Secondary Height	<u>u</u>		4
Structure Summary	·	il			
Dumped riprap slo	pe comprised of 500 to 3000 pour	nd stones. Coastal sa	and beach is locate	d outshore. Local road about	15 feet inshore. Only
land access to the	rest of Nahant. Minor erosion abo	ove top of revetment	slope. Slope toed	into beach just above mean h	nigh water.
Condition	С		Priority	IV	
Rating	Fair		Rating	High Priority	
Level of Action	Moderate		Action	Consider for Next Project	Construction Listing
Description	Structure is sound but may exhil deterioration, section loss, crack undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or way landform exists. Landform may to fully protect shoreline during a storm. Actions taken to provide a material for full protection and extending the storm of	ing, spalling, cture adequate with little to n to reinforce n from major life of re damage to not be sufficient major coastal	Description	High Value Inshore Structor Infrastructure Damage Density Residential Dwell impacted / 100 feet of sho	and/or Moderate ings (1-10 dwellings
Structure Image 047-025E-000-002- 047-025E-000-002-	100-PHO1A.JPG	ructure Documen	its:		

Structure Assessment Form

Town: Nahant

Structure ID: 047-025E-000-002-200

Property Owner:	Location:	Program of the control of the contro	Date:
State	Nahant Road		5/31/2007
Presumed Structure Owner:	Based On Com	ment:	,
State			
Owner Name:	# Earliest Structu	re Pecord:	Estimated Reconstruction/Repair Cost:
MA-DCR	Unkown	ire Record.	\$1,465,464.00
	J		
Length: Top Elevation: FIRM Map Zone			
1220 13 V	1	13	
Feet Feet NAVD 88	Feet NGV	ь	
Primary Type: Primary Material:	Primary Height:		
Revetment Stone	5 to 10 Feet		
Secondary Type: Secondary Material:	Secondary Height:		
1	4		
Structure Summary :	and the constal direc	No ovidence of a	tructure visible other than the stones. Slope extends
from mean high water to approximately 10 feet abo			
Condition D		Priority	II
Rating Poor		Rating	Low Priority
Level of Action Major		Action	Future Project Consideration
Structure exhibits advanced lever deterioration, section loss, crack undermining, and/or scour. Structure during a major coastal st should be monitored until repairs/reconstruction can be in taken to reconstruct structure to capacity to resist a major coastal Landform eroded, stability threat Landform not adequate to providuring major coastal storm. Acti recreate landform to adequate is protection from a major coastal.	king, spalling, acture has and possible form. Structure hitiated. Actions a regain full al storm. tened. de protection ons taken to mits for full	Description	Inshore Structures Present with Limited potential for Significant Infrastructure Damage
Structure Images: St 047-025E-000-002-200-PHO2A.JPG 047-025E-000-002-200-PHO2B.JPG 047-025E-000-002-200-PHO2C.JPG	ructure Documen	ts:	

Section II - Nahant

Part C

Structure Photographs



Structure Condition Pholo at Time of Survey Structure Condition Photo at Time of Survey Structure Condition Pholo at Time of Survey Structure Condition Photo at Time of Survey Description Structure Location cation Sheets _ -_ + DIGITAL IMAGE Title June 2007 Date Municipality Bourne
Consulting
Engineering
Engineering Consulting
Engineering
Bourne
Consulting
Engineering
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering Bourne Consulting Engineering Consulting Engineering Bourne Consulting Engineering Bourne Consulting Engineering Entity Contract/ Drawing Number 047-002B-000-010-100-PHO1A.JPG 047-003C-000-064-100-PHO1A.JPG 047-003C-000-095-100-PHO1A.JPG 047-003C-000-095-100-PHO1B.JPG 047-003C-000-095-200-PHO2A.JPG 047-003C-000-095-200-PHO2B.JPG 047-003C-000-095-300-PHO3A.JPG 047-003C-000-095-400-PHO4A.JPG 047-012F-000-0BH-100 047-012F-000-00BH-100-PHO1B.JPG 047-003C-000-095-400-PHO4B.JPG 047-003C-000-095-400-PHO4C.JPG 047-004B-000-017-100-PHO1A.JPG 047-004B-000-017-100-PHO1B.JPG 047-012F-000-0BH-100 047-012F-000-00BH-100-PHO1A.JPG 047-006-000-001-100-PHO1A.JPG 047-006-000-008-100-PHO1A.JPG 047-006-000-008-100-PHO1B.JPG 047-009-000-032-100-PHO1B.JPG 047-009-000-032-100-PHO1C.JPG 047-012-000-034-100-PHO1B.JPG 047-009-000-032-100-PHO1A.JPG 047-012-000-034-100-PHO1A.JPG Document No 047-002B-000-010-100 047-003C-000-064-100 047-003C-000-095-100 047-003C-000-095-400 047-004B-000-017-100 047-003C-000-095-100 047-003C-000-095-200 047-003C-000-095-200 047-003C-000-095-400 047-003C-000-095-400 047-004B-000-017-100 047-003C-000-095-300 047-006-000-001-100 047-006-000-008-100 047-006-000-008-100 047-009-000-032-100 047-009-000-032-100 047-009-000-032-100 047-012-000-034-100 047-012-000-034-100 BCE Structure No

SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

Structure Condition Photo at Time of Survey Structure Condition Pholo at Time of Survey Structure Condition Photo at Time of Survey Description Structure Location Location --DIGITAL IMAGE DIGITAL IMAGE Title June 2007 Date Municipality Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Engineering Engineering
Bourne
Consulting
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Engineering Entity Contract/ Drawing Number 047-025A-000-426-100-PHO1A.JPG 047-025A-000-426-100-PHO1B.JPG 047-025D-000-000-100-PHO1A.JPG 047-025D-000-000-100-PHO1B.JPG 047-025D-000-000-200 047-025D-000-000-200-PHO2B.JPG 047-025D-000-000-200 047-025D-000-000-200-PHO2C.JPG 047-025D-000-000-300 047-025D-000-000-300-PHO3A.JPG 047-025D-000-000-200-PHO2A.JPG 047-025D-000-000-300 047-025D-000-000-300-PHO3B,JPG 047-025D-000-000-400 047-025D-000-000-400-PHO4A.JPG 047-025D-000-000-400-PHO4B.JPG 047-025D-000-000-400-PHO4C.JPG 047-025D-000-000-800-PHO8C..JPG 047-025E-000-001-100-PHO1A.JPG 047-025D-000-000-500-PHO5A.JPG 047-025D-000-000-500-PHO5B.JPG 047-025D-000-000-600-PHO6A.JPG 047-025D-000-000-600-PHO6B.JPG 047-025D-000-000-700-PHO7A.JPG 047-025D-000-000-800-PHO8A.JPG 047-023-000-066-100-PHO1A.JPG 047-025D-000-000-800-PHO8B.JPG Document No 047-025A-000-426-100 047-025D-000-000-100 047-025A-000-426-100 047-025D-000-000-100 047-025D-000-000-200 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-700 047-025D-000-000-800 047-025D-000-000-800 047-025D-000-000-800 047-025E-000-001-100 047-023-000-066-100 BCE Structure No

		Contract/							
BCE Structure No	Document No	Drawing Number	Entity	Municipality	Date	Tille	Sheets	Location	Description
047-025E-000-001-100	047-025E-000-001-100	9 🗓	Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Pholo at Time of Survey
047-025E-000-002-100	047-025E-000-002-100 047-025E-000-002-100-PHO1A.JPG	0 11	Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
047-025E-000-002-100	047-025E-000-002-100	0 🗓	Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
047-025E-000-002-200	047-025E-000-002-200 047-025E-000-002-200-PHO2A.JPG	2 🗓	Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
047-025E-000-002-200	047-025E-000-002-200	2 13	Bourne Cansulting Engineering	•	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
047-025E-000-002-200	047-025E-000-002-200 047-025E-000-002-200-PHO2C.JPG	0 🖫	Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey



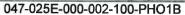














047-025E-000-002-200-PHO2A



047-025E-000-002-200-PHO2B



6

Section II - Nahant

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Nahant

TOWN: NAHANT SOURCE: Town of Nahant LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

BCE Structura No	Document No	Contract	Futito	Minichality	4	<u> </u>	- Photograph			- Stanford
		Number	, mur	manucipality	Care		Singers	Locadon	5	равспраон

Cross-Sections of Seawall and Riprap Cross Sections of Seawall and Riprap Cross-Sections of Seawall and Riprap Concrete Retaining Wall Riprap Washington Street, Lynn to Wilson Road, Nahard Washington Street, Lynn to Wilson Road, Nahant Washington Street, Lynn to Wilson Road, Nahant Naharit Road by Wilson Road Nahant Road Lynn Harbor Location Q 6 8 8 7 ~ of Proposed Filling in Lynn Harbor
Natarit Beach Farkway - Pan Showing Location
of Proposed Buikhead and Filling
Naharit Beach Parkway - Pan for Grading Slopes
at Naharit Beach Parkway - Pan for Grading Slopes
at Naharit Beach Parkway - Pan for Shore
Naharit Beach Parkway - Pan for Shore Vaharil Beach Parkway - Plan for Grading Slopes of Nahari Playground - Lynn Harbor Nahart Beach Parkway - Plan of Shore Protection Cross-Sections - Lynn and Naharit Beach
Naharit Beach Parkway - Proposed Improvements
at Naharit Beach
Naharit Beach Reservation - Reconstruction and
Widening of Naharit Beach Parkway Nahant Beach Parkway - Storm Damage Repairs Nahant Beach Parkway - Plan of Shore Protection Nahart Beach Parkway - Storm Damage Repairs Nahart Beach Parkway - Plan for Grading Slopes of Nahart Playground in Lynn Harbor A Nahari Beach
Nahari Beach Reservation - Reconstruction and
Widening of Nahari Beach Parkway
Nahari Beach Reservation - Repairs to Granite Nahart Beach Parkway - Storm Damage Repairs Nahant Beach Parkway - Plan Showing Location of Proposed Filling in Lynn Harbor Naharit Beach Parkway - Plan Showing Location Nahari Beach Parkway - Plan Showing Location of Proposed Bulkhead and Filling in Lynn Harbor Nahant Beach Parkway - Plan Showing Location of Proposed Bulkhead and Filling in Lynn Harbor Nahant Beach Reservation - Reconstruction and Widening of Nahant Beach Parkway.
Nahant Beach Reservation - Repairs to Granite Damage Repairs and Other Improvements Nahant Beach Reservation - Proposed Concrete Damage Repairs and Other Improvements Vahent Beach Reservation - Proposed Concrete Proposed Shore Protection - Naham Road -Naham - Prepared for DPW of MA - Division of Vahard Beach Parkway - Plan Showing Location ed Concrete Retaining Wall - Forty Ste - Nahant - Prepared for DPW of MA -Nahart Beach Parkway - Reconstruction of Roadway - Washington Street, Lynn to Wilson Road, Nahart Nahari Beach Parkway - Reconstruction of Roadway - Washington Street, Lynn to Wilson Road, Nahart Protection Vaharti Beach Parkway - Reconstruction of Roadway - Washington Street, Lynn to Wilson Seawail and Other Improvements Nahant Beach Reservation - Proposed Storm Seawall and Other Improvements Naharit Beach Reservation - Proposed Storm Cross-Sections - Lynn and Nahard Beach Nahard Beach Parkway - Proposed Improv Cross-Sections - Lynn and Nahant Beach Nahant Beach Parkway - Proposed Impro of Proposed Filling in Lynn Harbor at Nahard Beach November 1980 September 1971 December 1961 September 1971 August 1933 August 1972 11/3/1913 11/24/1964 12/18/1916 12/18/1916 6/7/1933 4/30/1989 5/22/1972 11/24/1964 August 1972 11/24/1964 3/23/1914 1/22/1947 6/9/1961 11/3/1913 6/7/1933 4/30/1969 5/22/1972 11/3/1913 3/23/1914 12/18/1916 4/30/1969 3/23/1914 1/22/1947 6/7/1933 6/9/1961 1/22/1947 6/9/1981 Date Nahant Nahart Nahard Naham Nahant Nahart Nehant Nahant Nahart Nahant Nahart Nahart Nahart Nahant Nahant Nahant Nahari Nahant Naharr Nahant Nahant Nahard Naharr Nahart Nehant Nahart Nahart Nahard Nahant Nahart Nahant Nahart Nahart Nahant MA-DCR Entity PW-H-708 PW-H-708 46735 47208 54072 10032 10032 10198 11666 38829 47536 21491 27503 2230 21491 27503 42961 10198 42961 46735 47208 47536 54072 46735 383 11666 39829 10032 10188 11666 21491 27503 39829 42B61 047-025D-000-000-100-DCR1D 047-025D-000-000-100-DCR1H 047-004B-000-017-100-DCR1A 047-025A-000-428-100-DCR1A 047-025D-000-000-100-DCR1A 047-025D-000-000-100-DCR1B 047-025D-000-000-100-DCR1C 047-025D-000-000-100-DCR1E 047-025D-000-000-100-DCR1F 047-025D-000-000-100-DCR1I 047-025D-000-000-100-DCR1J 047-025D-000-000-100-DCR1K 047-025D-000-000-100-DCR1L 047-025D-000-000-200-DCR2A 047-025D-000-000-200-DCR2B 047-025D-000-000-200-DCR2C 047-025D-000-000-200-DCR2D 047-025D-000-000-200-DCR2E 047-025D-000-000-200-DCR2H 047-025D-000-000-200 047-025D-000-000-200-DCR2I 047-025D-000-000-200-DCR2J 047-025D-000-000-200 047-025D-000-000-200-DCR2K 047-025D-000-000-200-DCR2L 047-025D-000-000-300-DCR3C 047-025D-000-000-300-DCR3D 047-025D-000-000-300 047-025D-000-000-300-DCR3G 047-025D-000-000-100-DCR1G 047-025D-000-000-200-DCR2F 047-025D-000-000-200-DCR2G 047-025D-000-000-300-DCR3A 047-025D-000-000-300-DCR3B 047-025D-000-000-300-DCR3E 047-025D-000-000-300 047-025D-000-000-300-DCR3F 047-025D-000-000-300-DCR3H 047-025D-000-000-300-DCR3I 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-004B-000-017-100 047-025A-000-426-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-100 047-025D-000-000-200 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-300 BCE Structure No

Cross-Sections of Seawall and Riprap Cross-Sections of Seawall and Riprap Cross Sections of Seawall and Riprap Washington Street, Lynn to Wilson Road, Nahard 6 ~ 6 N Natant Beach Parkway - Plan for Grading Slopes of Nahauri Playgound in Lynn Harbor Cross-Sectlors - Lynn and Naharit Beach Parkway - Proposed improvements at Naharit Beach as Naharit Beach Sectlors - Lynn and Naharit Beach and Naharit Beach Parkway - Proposed improvements at Naharit Reach of Proposed Filling in Lynn Harbor Naharit Beach Parkway - Plan Showing Proposed Nehant Beach Parkway - Storm Damage Repairs Naham Beach Parkway - Plan of Shore Protection Nahart Beach Parkway - Storm Damage Repairs Nahart Beach Parkway - Plan of Shore Protection Nahant Beach Parkway - Plan of Shore Protection Nahard Beach Parkway - Plan Showing Location Nahart Beach Parkway - Storm Damage Repairs amage Repairs and Other Improvements ahart Beach Reservation - Proposed Concrete Vahant Beach Perkway - Plan Showing Location lamage Repairs and Other Improvements Vahant Beach Reservation - Proposed Concrete Nehant Beach Parkway - Plan Shwoing Location of Proposed Bulkhead and Filling in Lynn Harbor at Naharit Beach Naharit Beach Resevation - Reconstruction and Widening of Instant Beach Parkway Naharit Beach Repairs - Repairs to Granite ahant Beach Parkway - Plan Showing Location f Proposed Filling In Lynn Harbor Nahant Beach Parkway - Plan Showing Location of Proposed Bulkhead and Filling in Lyru Harbor at Nahant Beach Nahant Beach Reservation - Reconstruction and Widening of Nahant Beach Parkway of Nahant Playground in Lynn Harbor Chress-Sections - Lynn and Nahant Beach Nahant Beach Parkway - Proposed Improvement at Nahant Beach Nassavation - Reconstruction and Nahant Beach Resevation - Reconstruction and ewall and Other Improvements hant Abeach Reservation - Proposed Storm Widening of Nahart Beach Parkway Nahart Beach Reservation - Repairs to Granite Raodway - Washington Street, Lynn to Wilson Road, Nahant Nahart Beach Parkway - Reconstruction of Roadway - Washington Street, Lynn to Wilson ay - Washington Street, Lynn to Wilson Seawall and Other Improvements Nahant Beach Resevation - Proposed Storm Nahant Beach nesses Stoments
Seewall and Other Improvements
Nahant Beach Resevation - Proposed Storm Nahant Debaur annow, of Nahant Playground in Lynn Harbor Cross-Sections - Lynn and Nahant Beaches Nahant Beaches Nahant Beaches Nahant Beach Perkway - Proposed Improver Jahart Beach Parkway - Reconstruction Damage Repairs and Other Improvem Nahart Beach Reservation - Proposed Julkhead and Filling in Lynn Harbor posed Filling in Lynn Harbor Vahant Beach Parkway September 1971 Seplember 1971 September 1971 ecember 1961 11/24/1964 August 1972 11/24/1964 Sugust 1972 5/22/1972 August 1972 5/22/1972 11/3/1913 3/23/1914 6/9/1981 4/30/1969 5/22/1972 11/3/1913 3/23/1914 6/9/1991 12/18/1916 4/30/1989 11/3/1913 6/7/1933 12/18/1916 11/24/1964 4/30/1969 6/7/1933 1/22/1947 6/7/1933 3/23/1914 1/22/1947 6/9/1961 1/22/1947 11666 Data Naharrt Nahard Naham Nehant Nahart Naharrt Nahart Nahant Nahart Naharrt Nahart Nahant Nehant Nahant Naham Nahant Nehant Naharrt Nahart Nahant Nahant Naharit Naham Naharrt Naham Nahant Nahart Nahart Nahan Nahant Nahant Nahart Nahari Nahart Nahart MA-DCR Entity 12/18/1916 47208 047-025D-000-000-400-DCR4G PW-H-708 47538 54072 10032 39829 42961 PW-H-708 21491 27503 48735 54072 10198 39829 46735 46735 47208 47536 10032 10198 21491 27503 11666 42961 47536 47536 54072 10032 10188 39829 21491 27503 11666 42961 047-025D-000-000-400-DCR4D 047-025D-000-000-300-DCR3J 047-025D-000-000-300-DCR3K 047-025D-000-000-400 | 047-025D-000-000-400-DCR4A 047-025D-000-000-400-DCR4B D47-025D-000-000-400 047-025D-000-000-400-DCR4C 047-025D-000-000-400-DCR4E 047-025D-000-000-400-DCR4F 047-025D-000-000-400-DCR4H 047-025D-000-000-500-DCR5C 047-025D-000-000-500-DCR5D 047-025D-000-000-300-DCR3L 047-025D-000-000-400-DCR4I 047-025D-000-000-400-DCR4J 047-025D-000-000-400-DCR4K 047-025D-000-000-400-DCR4L 047-025D-000-000-500-DCR5A 047-025D-000-000-500-DCR5B 047-025D-000-000-500-DCR5E 047-025D-000-000-500-DCR5H 047-025D-000-000-500-DCR5I 047-025D-000-000-500-DCR5J 047-025D-000-000-500 047-025D-000-000-500-DCR5K 047-025D-000-00D-800-DCR8D 047-025D-000-000-600 D47-025D-000-000-600-DCR6G 047-025D-000-000-600 047-025D-000-000-600-DCR8I 047-025D-000-000-500-DCR5F 047-025D-000-000-500-DCR5L 047-025D-000-000-600-DCR6A 047-025D-000-000-800-DCR8B 047-025D-000-000-600-DCR6C 047-025D-000-000-600-DCR8E 047-025D-000-000-600-DCR6F 047-025D-000-000-800-DCR6H 047-025D-000-000-300 047-025D-000-000-300 047-025D-000-000-500 047-025D-000-000-300 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-400 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-500 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-800 047-025D-000-000-600 047-025D-000-000-500 047-025D-000-000-600 **BCE Structure No**

LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

SOURCE: MA-DCR

TOWN: NAHANT

Cross Sections of Seawalls and Riprap Cross Sections of Seawall and Riprap Washington Street, Lynn to Wilson Road, Nahant 7 8 8 ~ 9 N Naharit Beach Parkway - Reconstruction of Roadway - Washington Street, Lym to Wilson Road. Naharit Road. Naharit Alband Parkway - Plan for Grading Stopes of Johann Payground in Lym Habrant Beaches (Crose-Sections - Lym and Maharit Beaches Naharit Beach Parkway - Proposed Improvements at Neiram Beach
Niham Beach Reservation - Reconstruction and
Widelanting of National Beach Parkway
Widelanting of National Beach Parkway
Ni Neiram Beach Reservation - Repairs to Granite
Seawall and Other Improvements
Ne of Nehant Playground in Lynn Harhor

Secenber 1961 | Cross-Sections - Lynn and Nahant Beaches

Alahant Beach Parkway - Proposed Improvements Nahant Beach Parkway - Storm Damage Repairs Naharit Beach Parkway - Plan of Shore Protection toad, Nahant Jaham Beach Parkway - Plan for Grading Slopes Nahant Beach Parkway - Plan of Shore Protection ial Naham Beach
Naham Beach Reservation - Reconstruction and
Widening of Naham Beach Parkway
Naham Beach Reservation - Reconstruction and Nahart Beach Parkway - Storm Damage Repairs Damage Repairs and Other Improvements
Nahami Beach Reservation - Proposed Concrete Damage Repairs and Other Improvements Vahart Beach Reservation - Proposed Concrete Nahard Beach Parkway - Plan Showing Location of Proposed Filling in Lynn Harbor Nahart Beach Parkway - Plan Showing Location of Proposed Bulkhead and Filling in Lynn Harbor Nahart Beach Parkway - Plan Showing Location of Proposed Filling in Lynn Harbor Nahart Beach Parkway - Plan Showing Location of Proposed Bulkhead and Filling in Lynn Harbor Damage Repairs and Other Improvements
Nahart Beach Reservation - Proposed Concrete
Wall Nahari Beach Parkway - Reconstruction of Roadway - Washington Street, Lynn to Wilson sawall and Other Improvements shart Beach Reservation - Proposed Storm Seawall and Other Improvements Nahart Beach Reservation - Proposed Storm TITE September 1971 September 1971 September 1971 August 1972 August 1972 August 1972 5/22/1972 5/22/1972 11/3/1913 12/18/1918 11/24/1964 11/24/1964 3/23/1914 6/7/1933 1/22/1947 4/30/1969 5/22/1972 11/3/1913 12/18/1918 4/30/1969 6/9/1961 3/23/1914 6/9/1961 6/7/1933 1/22/1947 Date Municipality Nahant Naharrt Naharrt Nahant Nahart Nahart Nahant Nahant Naharit Nahart Nahant Nehant Nahart Nahant Nahant Nahart Nahart Nahard Nahard Nahant Nahart Nahart Nahant Nahart Nahant Naham MA-DCR Entity 47208 PW-H-708 47536 54072 10032 46735 47208 47538 54072 42861 54072 21491 10032 39829 27503 46735 47208 47536 10188 39829 27503 11668 42961 10198 21481 11666 047-025D-000-000-800 047-025D-000-000-800-DCRBL 047-025D-000-000-800-DCR8J 047-025D-000-000-800-DCR6K 047-025D-000-000-800-DCR8L 047-025D-000-000-700 047-025D-000-000-700-DCR7A 047-025D-000-000-700 | 047-025D-000-000-700-DCR7B 047-025D-000-000-700-DCR7C 047-025D-000-000-700-DCR7D 047-025D-000-000-700-DCR7E 047-025D-000-000-700-DCR7H 047-025D-000-000-800-DCR8A 047-025D-000-000-800-DCR8D 047-025D-000-000-700 047-025D-000-000-700-DCR7F 047-025D-000-000-700-DCR7! 047-025D-000-000-700 047-025D-000-000-700-DCR7J 047-025D-000-000-700-DCR7K 047-025D-000-000-700-DCR7L 047-025D-000-000-800-DCR8B 047-025D-000-000-800-DCR8C 047-025D-000-000-800 047-025D-000-000-800-DCR8E 047-025D-000-000-800-DCR8G 047-025D-000-000-800 047-025D-000-000-800-DCR8H 047-025D-000-000-800 047-025D-000-000-800-DCR8I D47-025D-000-000-800 047-025D-000-000-800-DCR8J 047-025D-000-000-800 | 047-025D-000-000-800-DCR8K 047-025D-000-000-800-DCR8F 047-025D-000-000-700-DCR Document No 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-600 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-700 047-025D-000-000-800 047-025D-000-000-800 047-025D-000-000-800 047-025D-000-000-800 047-025D-000-000-800 047-025D-000-00D-800 BCE Structure No

~

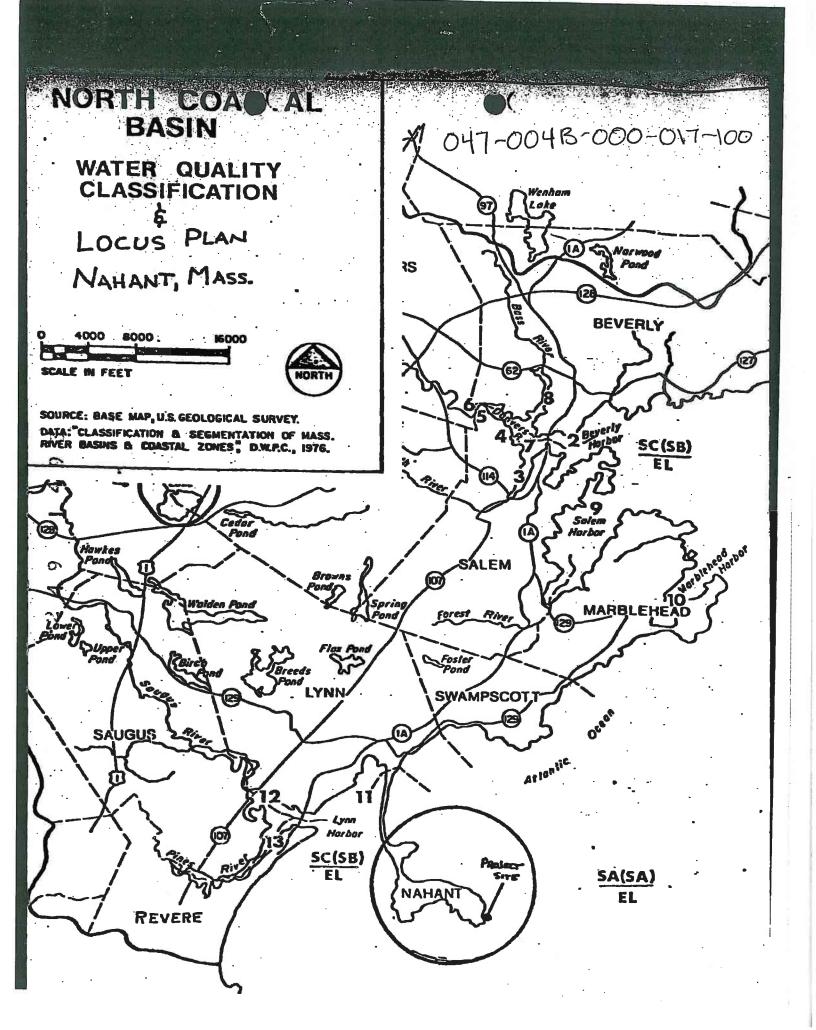
No MA - DEP Ch. 91 Documents for the Town of Nahant

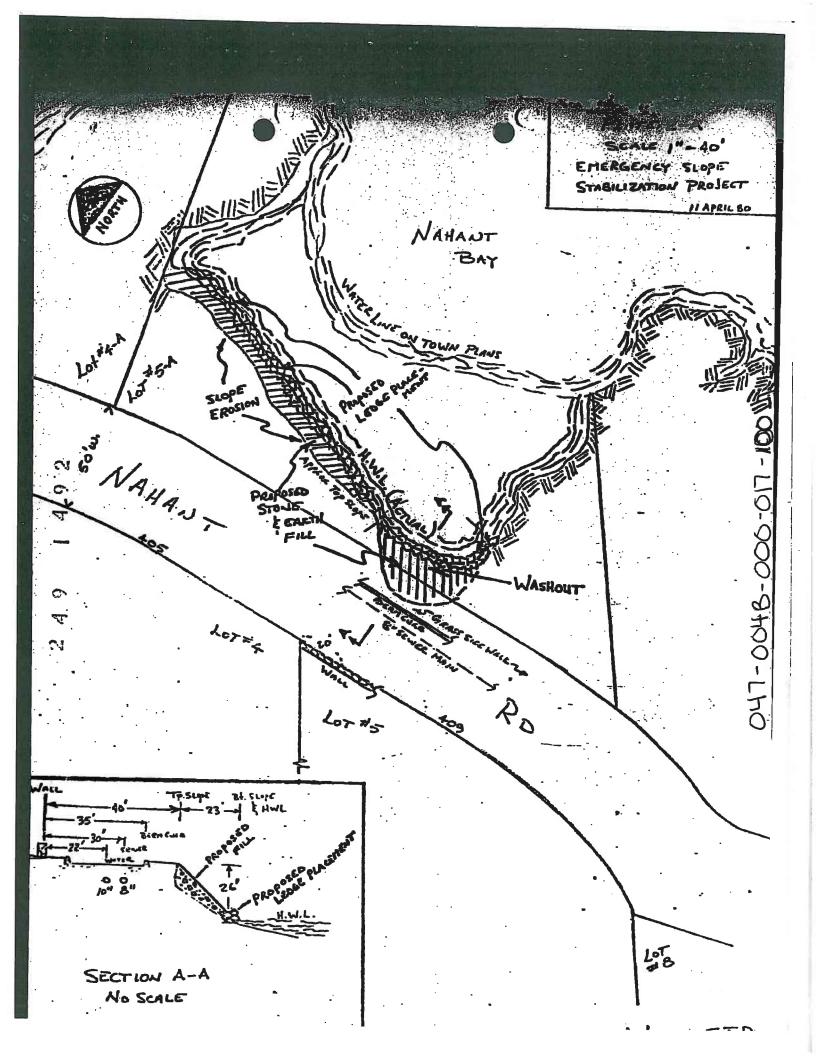
TOWN: NAHANT SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

-		Contract					_		
ture No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
Ī		Number							

TOWN: NAHANT SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

Contract/ Drawing Entity Municipality Date Title Sheets Location Description	1A 80-131 USACE Nahant May 12, 1980 Emergency Slope Stabilization Project 2 End of Nahant Road Stone Fill
ontract/ prawing Entity	80-131 USACE
Document No	47-004B-000-017-100 047-004B-000-017-100-COE1A 80-131 USACE
BCE Structure No	047-004B-000-017-100





Section III

Winthrop



Section III - Community Findings - Town of Winthrop

COMMUNITY DESCRIPTION

The Town of Winthrop consists of a land area of 1.99 square miles out of a total area of 8.3 square miles and had a population of 18303 in the 2000 census. The Town is located in Boston Harbor of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline is 7 miles that are directly exposed to open ocean. The Town is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Town were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the Town of Winthrop, there were 33 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 9 in Section III-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Town of Winthrop

	Total	Str	ucture Conditio	n Rating	·····	
Primary Structure (1)	Structures A	В	C	D	F	Total Lengtl
Bulkhead / Seawall	20	9	8	3		14976
Revetment	9	5	3	1		6207
3reakwater	1	1				2180
Groin / Jetty	3		3			485
Coastal Dune						100
Coastal Beach						
	33	15	14	4		23848

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Town of Winthrop's case there are a total of 33 structures which would require approximately \$ 17 million to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 509,300 would be required to upgrade the Town's coastal protection.

BCE

III-A-1 Town of Winthrop

STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Winthrop

	Total			Stri	icti	re Conditio	n R	ating				
Primary Structure (1)	Structures	Α		В		С		D		F	Tot	al Cost
Bulkhead / Seawall	20		\$	1,361,837	5	11,978,004	5	494,868			5	13,834,709
Revetment	9		3	305,958	\$	2,100,180	5	14,414			\$	2,420,552
Breakwater	1		\$	342,434							S	342,434
Groin / Jetty	3				5	418,724					5	418,724
Coastal Dune											\$	
Coastal Beach											\$	-
	33	\$ -	S	2,010,229	\$	14,496,908	\$	509,282	5	-	5	17,016,419

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Town of Winthrop, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Winthrop

	Total		Stri	uctur	re Conditio	n R	ating			
Primary Structure (1)	Structures	A	 В		С		D	F	Tot	al Cost
Town Owned	29		\$ 1,931,833	5 1	14,460,390	5	137,372		5	16,529,595
Commonwealth of Massachusetts									S	
Federal Government Owned									3	
Unknown Ownership	4		\$ 78,396	\$	36,518	\$	371,910		\$	486,824
	33	\$ -	\$ 2,010,229	\$ 1	4,496,908	5	509,282 \$		\$	17,016,419

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section III-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Winthrop's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

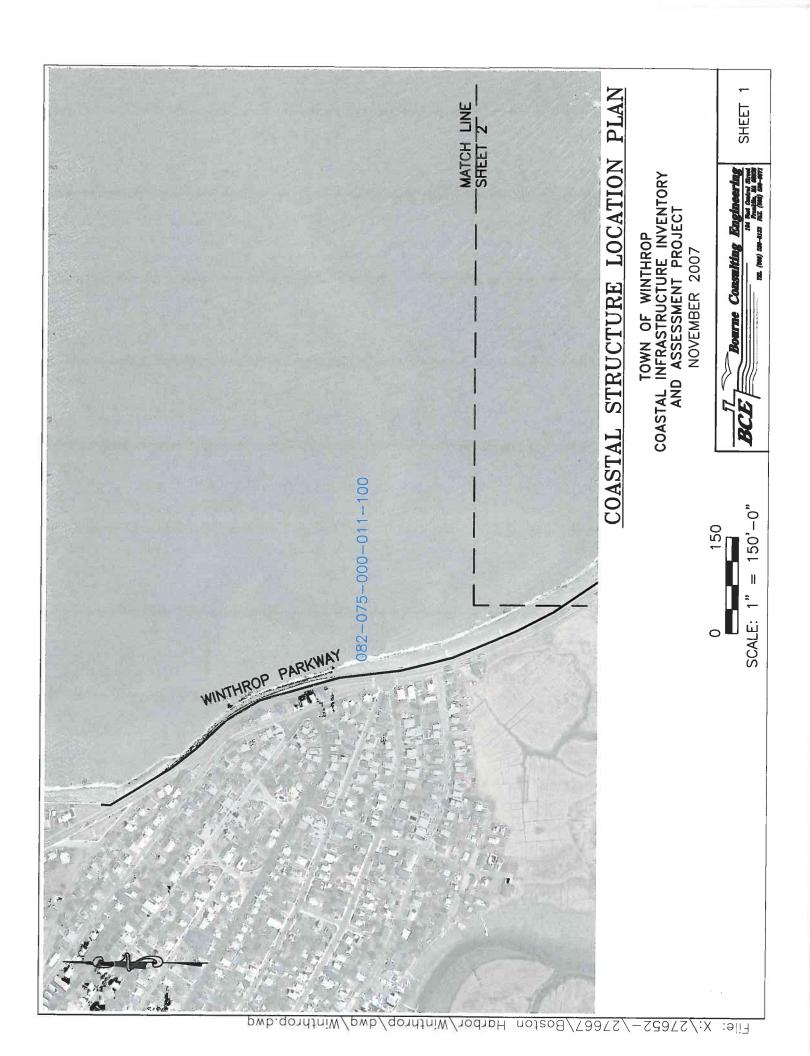
BCE

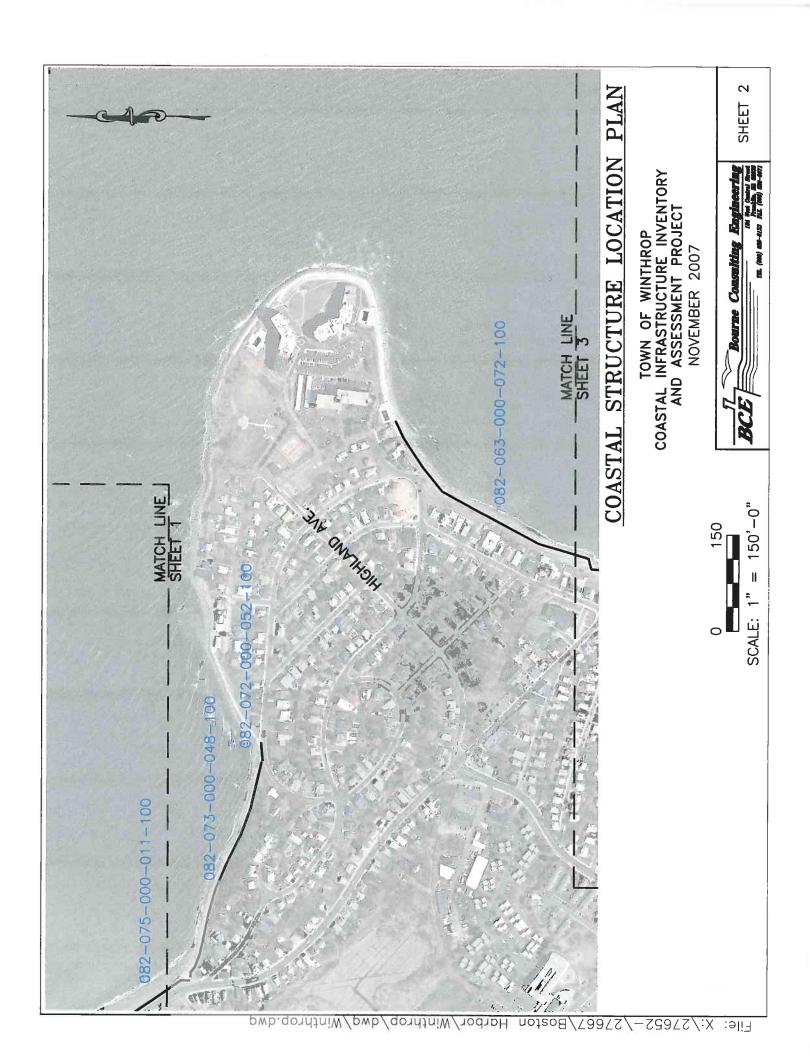
Section III - Winthrop

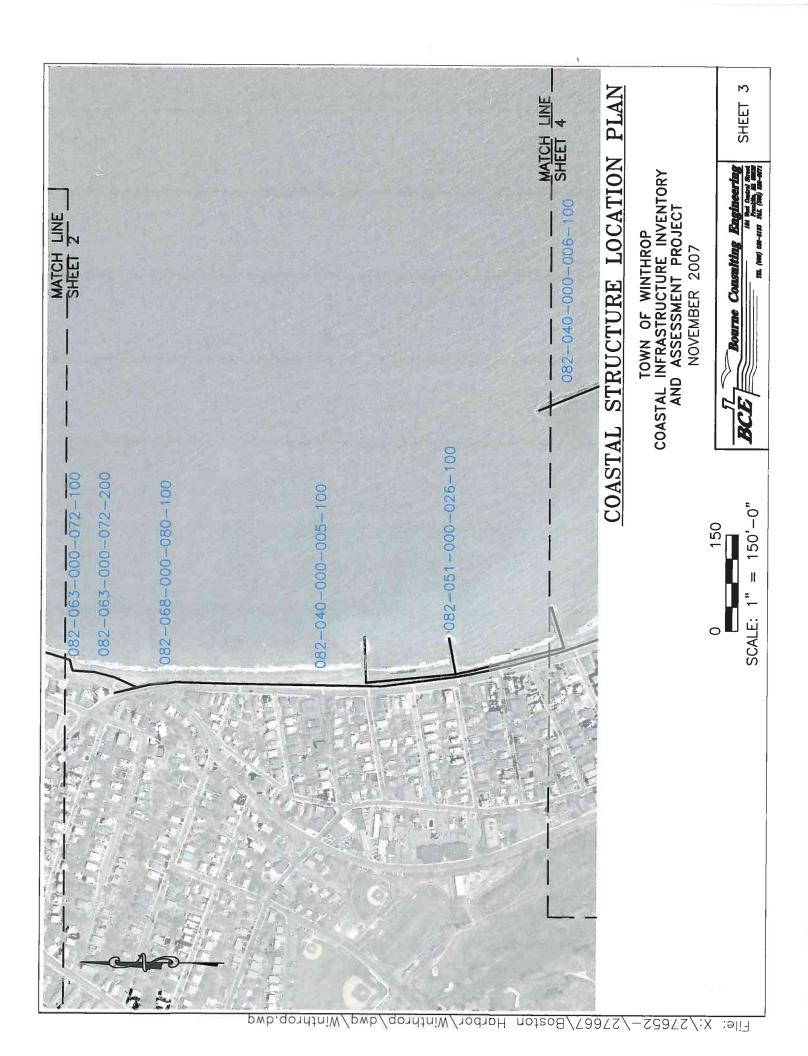
Part B

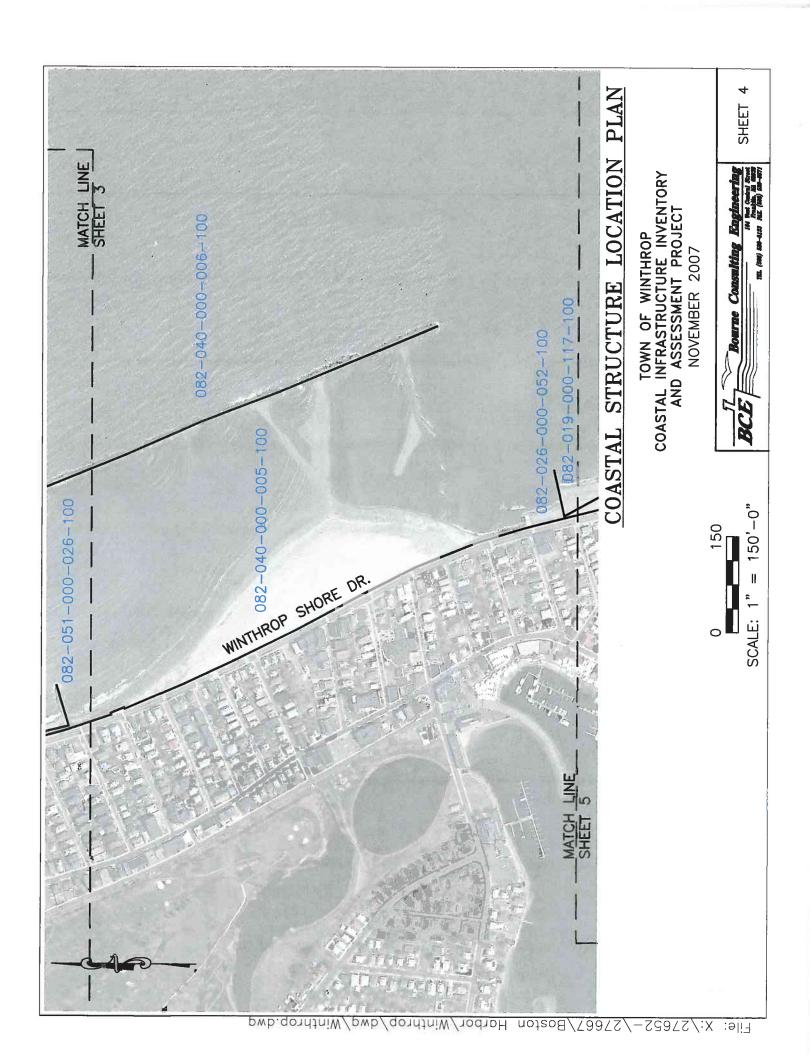
Structure Assessment Reports



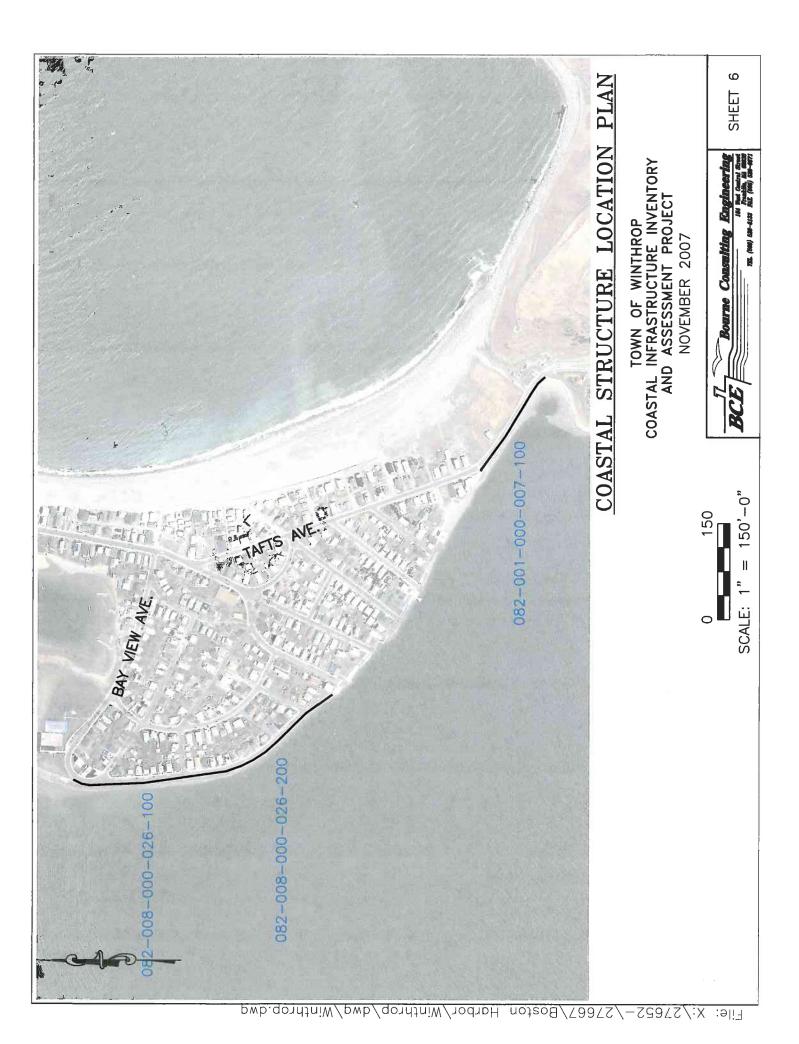


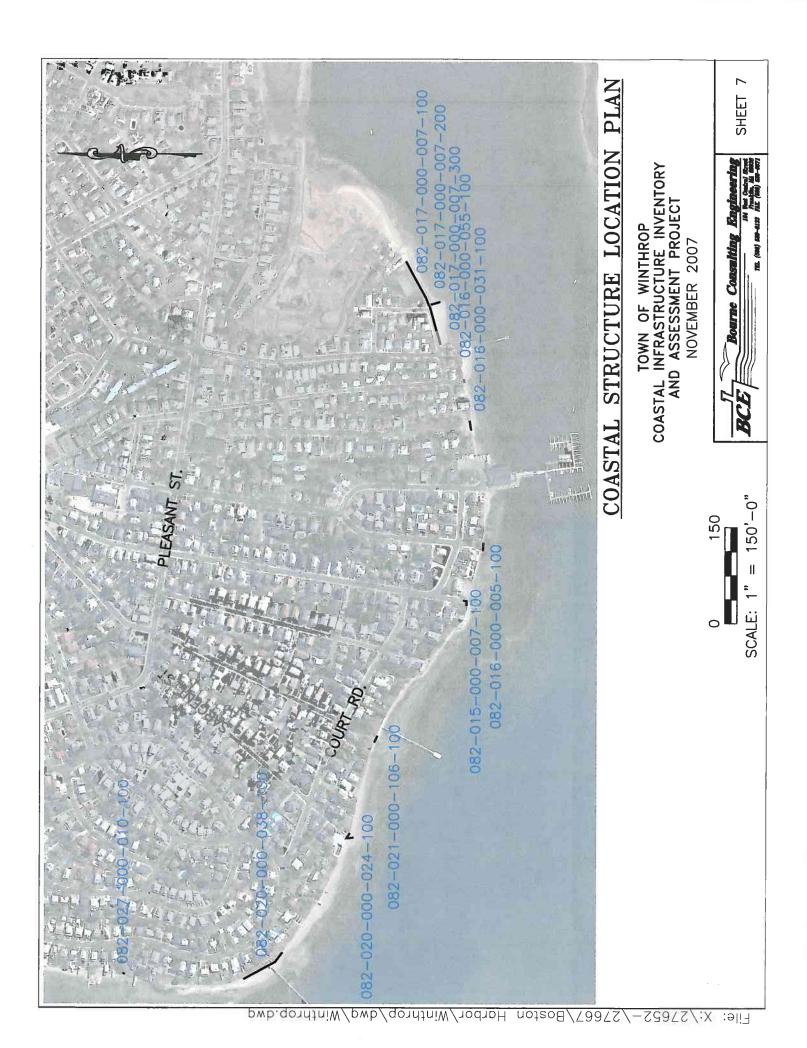


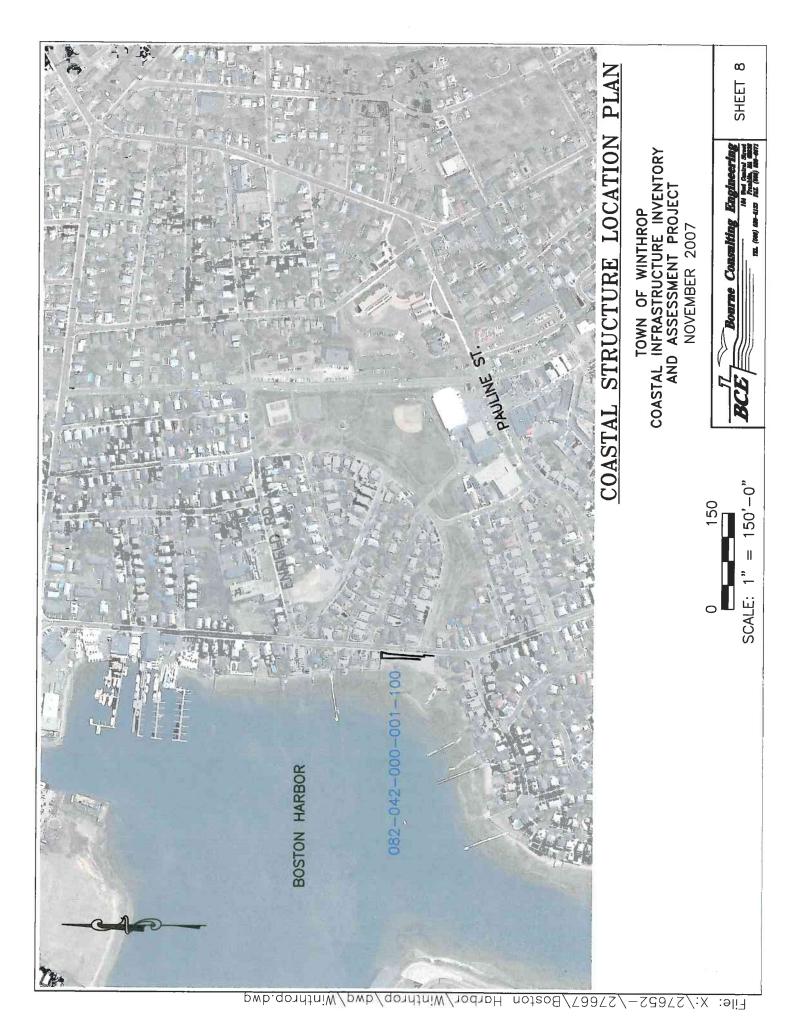


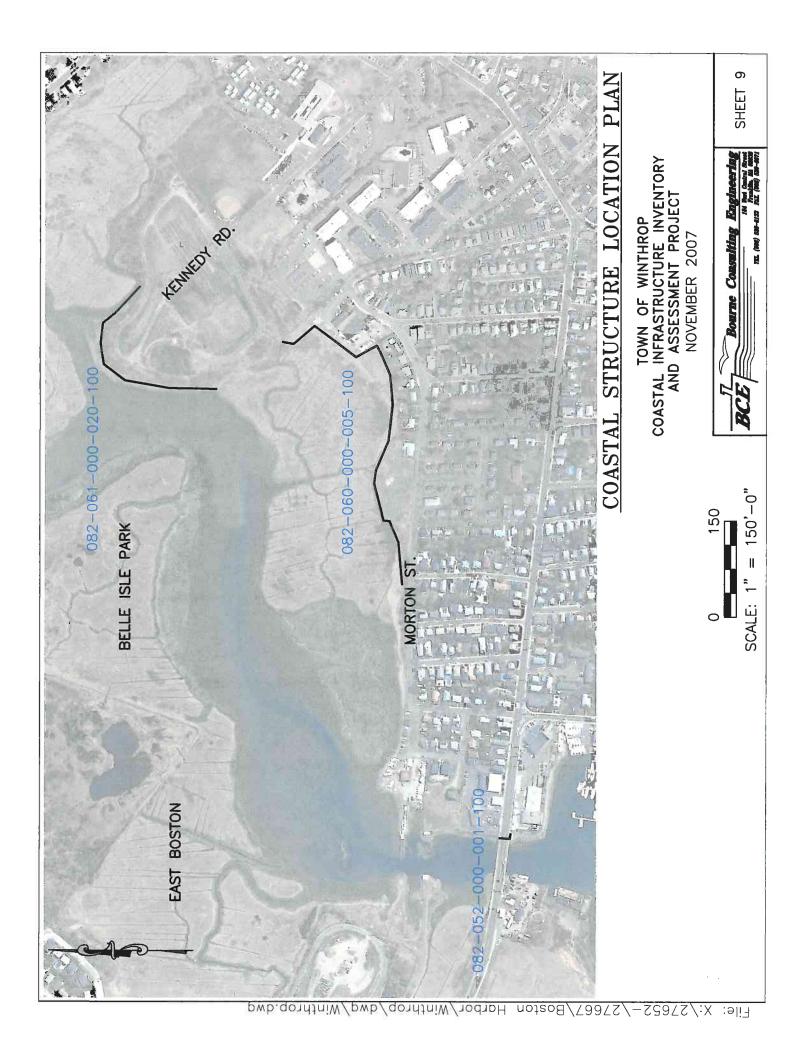












Structure Assessment Form

Town: Winthrop

Structure ID: 082-001-000-007-100

Property Owner:		Location:		Dat	œ:
Local		Tafts Avenue	2		6/13/2007
Presumed Structur	re Owner:	Based On Co	mment:		
Local					
Owner Name:		Earliest Struc	ture Record:	Estimated Recon	struction/Repair Cost:
Winthrop		Unkown	tale record.	Estinated Record	\$159,073.00
	Charles and the control of the contr				
Length: Top E	levation: FIRM Map Zone:		tion:		
))	NAVD 88	Feet NG		7	. 1
			IVD		o de la
Primary Type: Bulkhead/ Seawall	Primary Material: Concrete	Primary Height: 5 to 10 Feet			
Secondary Type:	Secondary Material:		nt•		
Revetment	Stone	Secondary Height 5 to 10 Feet	10:		
Structure Summary	,	10 10 10 1000			
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. It to landform is present. Structur adequate to provide protection frocoastal storm with no damage. It to prevent / limit future deteriorate	Minor erosion e / landform rom a major Actions taken	Priority Rating Action Description	V Immediate / Highest Priority Consider For Immediate Act Safety and Welfare Issues Critical Inshore Structures P Potential for Infrastructure D High Density Residential Dw of structure may warrant em stabilization as failure may n loss of property and/or life. (impacted / 100 feet of shore	resent with lamage and/or vellings Condition ergency esult in potential >10 dwellings
Structure Image 082-001-000-007-1		ructure Documei	nts:		

Structure Assessment Form

Town: Winthrop

Structure ID: 082-008-000-026-100

roperty Owner:			Location:			Date:	
ocal			Bay View A	venue			6/13/2007
resumed Structur	re Owner:		Based On C	Comment:		,	
.ocal					<u> </u>		
Owner Name:			Earliest Stri	ucture Record:		Estimated Reconstru	ction/Penair Cost
Vinth rop			1958	Joed C Necola.		Listinated Recorsit	\$124,093.00
	levation:	FIRM Map Zone:	FIRM Map Elev	ation:			
790		A2		11			
Feet Feet!	NAVD 88		Feet N	IGVD			
imary Type:	Primary	Material:	Primary Height	:		AN	
evetment	Stone		10 to 15 Feet			of the last	
condary Type:	Secondar	y Material:	Secondary Heigh	aht:	1		
		•					
ructure Summar	v ·						
ating evel of Action escription	problems, super to landform is produced adequate to provious coastal storm with	red to exhibit very ficial in nature. Mi esent. Structure vide protection fror th no damage. Ac future deterioratio	nor erosion / landform m a major ctions taken	Rating Action Descript	ion High Valu for Infrast Density R	for Next Project Consi e Inshore Structures v ructure Damage and/o esidential Dwellings (/ 100 feet of shoreline	vith Potential or Moderate 1-10 dwellings
ructure Image	ac.	Stru	cture Docume	onto:			
2-008-000-026-1		MA-I		September 1	Proposed Stone	082-008-000-02	6 100 DCB1A
2-008-000-026-1		MA-I		June 1961	Proposed Shore	082-008-000-02	
1	מאנייייי ביייי	MA-E		April 1965	Proposed Shore	082-008-000-02	
					,	,	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-008-000-026-200

Property Owner:			Locatio	n:		Date:
State			Grand Vi	ew Avenue		6/13/200
resumed Structure	e Owner		Based Or	Comment:		
tate						
wner Name:			Farlicet S	Structure Record:	En	timated Becomptwisting/Beasin Cont.
IA-DCR			1958	dructure Record:	- 🖺	timated Reconstruction/Repair Cost: \$182,186.00
	levation:	FIRM Map Z		Carrie A	19.5	
670			V2	12		
Feet Feet N	IAVD 88		Feet	t NGVD		A
mary Type:	_	Primary Material:	Primary Heig		1302	
ılkhead/ Seawall		Concrete	5 to 10 Feet		26	
condary Type:	_	Secondary Material:	Secondary H		45	
evetment		Stone	5 to 10 Feet			
ructure Summary		Name and the second of the second			100	
ie ouiknead is 7 i	reer wini	by 3 feet high. The	re is new construction	on or repair There	annearc to nave neer	
all. The placed ri	i pra p is o	comprised of stones t	ere is new construction that are approximately are roads and house	ly 4 feet by 5 feet	by 2 feet in size and pl	laced at a 1 on 1 slope. The toe
all. The placed ri pears in contact	i pra p is o	comprised of stones t	that are approximate	ly 4 feet by 5 feet is behind the struc	by 2 feet in size and pl	laced at a 1 on 1 slope. The toe
all. The placed rippears in contact condition	iprap is o with no	comprised of stones t	that are approximate	ly 4 feet by 5 feet	by 2 feet in size and pl tures.	laced at a 1 on 1 slope. The toe
all. The placed rippears in contact Condition Cating evel of Action	iprap is o with no B Good Minor	comprised of stones t visible scour. There	that are approximatel are roads and house	ly 4 feet by 5 feet s behind the struct Priority	by 2 feet in size and pl tures. IV High Priority Consider for N	laced at a 1 on 1 slope. The toe
wall. The placed ri	iprap is of with no B Good Minor Structuprobler to land	comprised of stones to visible scour. There re observed to exhibute to exhibute scours, superficial in nature form is present. Structure of the scours of t	that are approximatel are roads and house it very minor ure. Minor erosion ucture / landform	ly 4 feet by 5 feet is behind the struct Priority Rating	by 2 feet in size and pl tures. IV High Priority Consider for N High Value In for Infrastruct Density Resid	Next Project Construction Listing shore Structures with Potential ure Damage and/or Moderate dential Dwellings (1-10 dwellings
rall. The placed rippears in contact Condition Rating Level of Action	B Good Minor Structu probler to land adequa coasta to prev	comprised of stones to visible scour. There re observed to exhibute re, superficial in nature.	that are approximatel are roads and house it very minor are. Minor erosion acture / landform ion from a major ge. Actions taken	ly 4 feet by 5 feet is behind the struct Priority Rating Action	by 2 feet in size and pl tures. IV High Priority Consider for N High Value In for Infrastruct Density Resid	Next Project Construction Listing shore Structures with Potential
all. The placed rippears in contact Condition Rating evel of Action Description	B Good Minor Structuprobler to land adequate coasta to previlife of s	re observed to exhib ns, superficial in nature form is present. Structe to provide protect storm with no dama ent / limit future dete tructure.	that are approximatel are roads and house it very minor are. Minor erosion acture / landform ion from a major ge. Actions taken	y 4 feet by 5 feet is behind the struct Priority Rating Action Description	by 2 feet in size and pl tures. IV High Priority Consider for N High Value In for Infrastruct Density Resid	Next Project Construction Listing shore Structures with Potential ure Damage and/or Moderate dential Dwellings (1-10 dwellings
all. The placed rippears in contact Condition Rating Level of Action	B Good Minor Structuprobler to land adequate coasta to previlife of s	re observed to exhib ins, superficial in nature to provide protect storm with no dama ent / limit future dete tructure.	that are approximatel are roads and house it very minor ure. Minor erosion ucture / landform ion from a major ge. Actions taken rioration and extend	y 4 feet by 5 feet s behind the struct Priority Rating Action Description ments: September 1	by 2 feet in size and places. IV High Priority Consider for N High Value In for Infrastruct Density Resid impacted / 10	Next Project Construction Listing shore Structures with Potential ure Damage and/or Moderate lential Dwellings (1-10 dwellings 0 feet of shoreline)

Structure Assessment Form

Town: Winthrop

Structure ID: 082-013-000-002-100

		Location:			Date:
Local		Town Landin	ng		6/12/2007
Presumed Structur	re Owner:	Based On Co	mment:		
Local					
Owner Name:		Earliest Struc	ture Record:	Fstima	ted Reconstruction/Repair Cost:
Winthrop		1970			\$1,090,109.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Eleva	tion:		
1395	A2		10		
Feet Feet N	NAVD 88	Feet NG	GVD		
Primary Type:	Primary Material:	Primary Height:			THE PROPERTY AND ADDRESS OF THE PARTY OF THE
Revetment	Stone	10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Heigh	nt:	Jan San San San San San San San San San S	
7 7753	The state of the s	2000 Iddi y Ficigi	14.5		
Structure Summary	*	4			759 4
	is comprised of stones that are ap	pproximately 3 feet	by 2 feet by) feet in size. There are are	as with erosion at the top with
some exposed filte structure.	r fabric. The toe is intact. There a	are some areas whe	ere the stones	are unraveled. There is a l	poat ramp in the middle of the
Condition	С		Priority	III	
Rating	Fair		Rating	Moderate Priority	
Level of Action	Moderate		Action		e Project Improvement
Description	Structure is sound but may exhib deterioration, section loss, cracki		Descripti	Listing Inshore Structures	s with potential for
	undermining, and/or scour. Structo withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending listructure. Moderate wind or wave landform exists. Landform may not of ully protect shoreline during a storm. Actions taken to provide a material for full protection and extending the storm of the storm	ture adequate with little to to reinforce i from major fe of o damage to ot be sufficient major coastal ddition	Description of the second	Infrastructure Dan	nage and/or Limited ngs (<1 dwelling impacted /
Structure Image 182-013-000-002-10		ucture Documer ACE Ju		Proposed Access 08	32-013-000-002-100-COE1A

Structure Assessment Form

Town: Winthrop

Structure ID: 082-014-000-042-100

Property Owner:		Location:			Date:
Local		Shirley Street	et	· · · · · · · · · · · · · · · · · · ·	6/12/2007
Presumed Structur	e Owner:	Based On Co	omment:		
Local			, , , , , , , , , , , , , , , , , , ,	San	
Owner Name:		J Farliest Stru	cture Record:	Estimated Pe	econstruction/Repair Cost:
Winthrop		1960	cture Record.	Esumateu Ki	\$717,255.00
Length: Top E	levation: FIRM Map Z	one: FIRM Map Elev	ation:	1	
į į	IAVD 88	Feet N			
Primary Type:	Primary Material:				
Bulkhead/ Seawall		Primary Height: 5 to 10 Feet			
Secondary Type:	Secondary Material:	" Secondary Heig	ht-		The state of the s
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- I I I I I I I I I I I I I I I I I I I	Secondary rieig			
Structure Summary	<i>'</i> :	-			SARA
The cast in place wall has mi	vall has a wave return face. Tinor cracking. There is one 10	he beach is located in f) feet localized section (ront of the wall and of scour. There is no	a small park, roads and hou o other visible scour.	uses are located behind
Condition	С		Priority	III	
Rating	Fair		Rating	Moderate Priority	
Level of Action	Moderate		Action	Consider for Active Proj Listing	ect Improvement
Description	Structure is sound but may edeterioration, section loss, cundermining, and/or scour. Sto withstand major coastal stimoderate damage. Actions the structure to provide full protecoastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline during storm. Actions taken to provimaterial for full protection and	racking, spalling, Structure adequate form with little to aken to reinforce action from major ing life of wave damage to ay not be sufficient ng a major coastal ide addition	Description	Inshore Structures with Infrastructure Damage a Residential Dwellings (* 100 feet of shoreline)	and/or Limited
Structure Image 082-014-000-042-10		Structure Docume		osed Seawall 082-014	-000-042-100-DCR1A

Structure Assessment Form

Town: Winthrop

Structure ID: 082-014-000-044-100

Property Owner:		Location:		Date:
Local		Shirley Street		6/12/2007
Presumed Structure	e Owner:	Based On Com	nment:	
Local				
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
Winthrop		Unkown		\$392,990.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevati	on:	
360	A2		10	
Feet Feet N	IAVD 88	Feet NGV	/D	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall		5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height	:	
Revetment	Stone	Under 5 Feet	_	
' Structure Summary	,			
		proximately 3 feet h	ov 2 feet by 2 feet	in size. There are some areas of erosion at the top
with some exposed place return face w	filter fabric. The toe is intact. The	ere are some areas	where the stones	have come unraveled. There is a 3 feet high cast in
Condition	С		Priority	III
Rating	Fair		Rating	Moderate Priority
Level of Action	Moderate		Action	Consider for Active Project Improvement
Description	Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structut to withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending lift structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a ristorm. Actions taken to provide admaterial for full protection and extending the structure.	ng, spalling, ure adequate with little to to reinforce from major of of damage to to be sufficient major coastal Idition	Description	Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 082-014-000-044-1		ucture Documen	ts:	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-015-000-007-100

Presumed Structure Owner: Downer Name: Downer Name: Minthrop Earliest Structure Record: Unkown Estimated Reconstruction/Repair Cost: ### ### ### ### ### ### ### ### ### #	Property Owner:			Location:			Date:
Description Bearliest Structure Record: Estimated Reconstruction/Repair Cost Minthrop Unknown Estimated Reconstruction/Repair Cost Secondary Secondary	Local			Cottage Park	Road		6/12/2007
And the structure summary: The public access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An utiflow is located on each side. There is no visible scour. There is minor cracking. Condition By Condition By Condition By Consider for Active Project Improvement Listing Consider for Active Project Improvement Listing Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure of landform adequate to provide protection from a major coastal stoms with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:	Presumed Structur	e Owne	r:	Based On Comment:			y.
Mintrop Inkown Sciented Residence Sciented R	Local						
ength: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 40	Owner Name:			Earliest Struct	ture Record:	Estimated R	econstruction/Renair Cost
Feet Feet NAVD 88 Feet NGVD Primary Type: Bulkhead/ Seawall Concrete Concrete Fibulkhead/ Seawall Concrete Condary Material: Concrete Fibulkhead/ Seawall Concrete Secondary Material: Secondary Height: Freet NGVD Frimary Height: Fibulking Secondary Material: Secondary Height: Freet NGVD Frimary Height: Fibulking Secondary Material: Secondary Height: Fibulking Secondary Material: Frince public access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Ill Beach Priority Action Consider for Active Project Improvement Listing Description Structure observed to exhibit very minor Description Structure observed to exhibit very minor adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Documents: Structure Images: Structure Images: Structure Documents:	Winthrop		4				\$6,072.00
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Bulkhead/ Seawall Concrete Sto 10 Feet Recondary Type: Secondary Material: Secondary Height: Recondary Type: Secondary Height: Recondary Type: Secondary Material: Secondary Height: Recondary Type: Secondary Height: Recondary Type: Secondary Height: Recondary Type: Secondary Height: Republic access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An understand in front is the beach. An unde		levation		FIRM Map Elevat			
Primary Type: Primary Material: Primary Height: Decondary Type: Secondary Material: Secondary Height: Decondary Type: Secondary Height: Decondary He		RR CIVAN	1	Feet NG			
Bulkhead/ Seawall Concrete 5 to 10 Feet Secondary Type: Secondary Material: Secondary Height: Secondary Type: Secondary Material: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Height: Secondary Heigh					VU		
tructure Summary: The public access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition B Rating Good Rating Action Consider for Active Project Improvement Listing Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Description Structure Description Structure Description Structure Structure with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)		<u>. </u>				101	The same of
tructure Summary: The public access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An utiflow is located on each side. There is no visible scour. There is minor cracking. Condition B Rating Good Rating Moderate Priority III Consider for Active Project Improvement Listing Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Description Structure Documents: Structure Documents:	Secondary Type:		Secondary Material:	Secondary Heigh	t:		
The public access stairs located on the cast in place wall are in poor condition. Behind the structure is the road and in front is the beach. An autiflow is located on each side. There is no visible scour. There is minor cracking. Condition B				, , , , , , , , , , , , , , , , , , , ,			
Condition B Rating Good Rating Minor Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Structure Images: Structure Documents:							
Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline) Tructure Images: Structure Documents:	Rating	Good			Rating	Moderate Priority	iest Improvement
Level of Action Description Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Description Description Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline) Tructure Images: Structure Documents:	Condition				Priority	Ш	
Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline) Tructure Images: Structure Documents:	**						iect Improvement
problems, superficial in nature. Minor erosion to landform is present. Structure / landform adequate to provide protection from a major coastal storm with no damage. Actions taken to prevent / limit future deterioration and extend life of structure. Description		Structi	are observed to exhibit very	minor	Action		ject improvement
		to land adequa coasta to prev	Iform is present. Structure ate to provide protection fron strom with no damage. Act rent / limit future deterioration	/ landform m a major xtions taken	Description	Infrastructure Damage Residential Dwellings (and/or Limited
				cture Documen	its:		
				,			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-016-000-005-100

Property Owner:		Location:		Date:
Local		Woods Drive		6/12/2007
Presumed Structure	e Owner:	Based On Com	nment:	•
Local	<u> </u>			
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
Winthrop		Unkown		\$286,902.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevati	on:	
1890	A2		11	
Feet Feet N	IAVD 88	Feet NGV	/D	S Tour
Primary Type:	Primary Material:	Primary Height:	_	
Bulkhead/ Seawall	Concrete	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Height	<u>: _</u>	
Structure Summary				
The seawall has so stairs to the beach.	me cracks with no visible scour. Ti	ne beach is located	in front and the ro	ad is behind the structure. There are public access
istairs to the beach.				
Condition	В		Dutant	III
Rating	Good		Priority	Moderate Priority
Level of Action	Minor		Rating Action	Consider for Active Project Improvement
Description	Structure observed to exhibit very	minor	Action	Listing
Description	problems, superficial in nature. Mitto landform is present. Structure adequate to provide protection fro coastal storm with no damage. At to prevent / limit future deterioration life of structure.	inor erosion / landform m a major ctions taken	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image 082-016-000-005-1		ucture Documen	ts:	

Structure Assessment Form

Structure ID: 082-016-000-031-100

roperty Owner:		Location:			Date:	
ocal		Woodside Avenue and Bartlett Street 6/12/200				
resumed Structur	re Owner:	Based On Con	nment:			
ocal					· · · · · · · · · · · · · · · · · · ·	
wner Name:		Earliest Struct	ure Record:	Estimated Re	econstruction/Repair Cost:	
Vinthrop		Unkown			\$37,950.00	
ength: Top E	Elevation: FIRM Map Zone	EIDM Man Flount				
50		: FIRM Map Elevat	11		1.4 ° 0.00° -	
1	NAVD 88	Feet NG			the la	
rimary Type:	Primary Material:					
ulkhead/ Seawal		Primary Height: 5 to 10 Feet	-		ruin S	
econdary Type:	Secondary Material:	Secondary Height	·•	· - a+		
		Secondary rieigin	i.			
ructure Summar	v :	•		1 2 2		
ne stone block se	eawall is mortared in place. There	e are signs of scour ar	nd undermining at	the toe. There are areas of	stone loss and cracked	
oncrete. The put	olic access stairs are broken. The	re is a road behind th	e structure. There	is a outflow pipe located in	the structure.	
ondition	C		n i ii			
onaiiion ating	Fair		Priority Rating	II Low Priority		
evel of Action	Moderate		Action	Future Project Consider	ation	
Description	Structure is sound but may exh deterioration, section loss, crac undermining, and/or scour. Struto withstand major coastal stormoderate damage. Actions take structure to provide full protectic coastal storm and for extending structure. Moderate wind or wallandform exists. Landform may to fully protect shoreline during storm. Actions taken to provide material for full protection and extending storm.	king, spalling, acture adequate an with little to an to reinforce on from major life of we damage to not be sufficient a major coastal addition	Description	Inshore Structures Pres potential for Significant		
ructure Image 2-016-000-031-1		ructure Documen	ts:			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-016-000-055-100

Property Owner:		Location:	the state of the s	Date:
Local		Plumber Avenu	ie	
Presumed Structure	e Owner:	Based On Com	ment:	•
Local				
Owner Name:		Earliest Structu	re Record:	Estimated Reconstruction/Repair Cost:
		Unkown		\$24,288.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevation	on:	
1	 AVD 88	Feet NGV	o	
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Concrete	5 to 10 Feet	_	数件一个人
Secondary Type:	Secondary Material:	Secondary Height:	_	
1				
Structure Summary				
access.	gible scour or undermine. It is crack	ked, deteriorating, ar	nd has sections of	f loss. There is a road behind the wall and no public
Condition	D		Priority	III
Rating	Poor		Rating	Moderate Priority
Level of Action	Major		Action	Consider for Active Project Improvement Listing
Description	Structure exhibits advanced levels deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storr should be monitored until repairs/reconstruction can be initia taken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide	g, spalling, ure has and possible m. Structure ated. Actions egain full storm.	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
	during major coastal storm. Action recreate landform to adequate limi protection from a major coastal sto	is taken to its for full		
Structure Image 082-016-000-055-10		icture Document	S:	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-017-000-007-100

Local Presumed Structure Local		Location	n:		Date:		
		Frances A	Avenue		6/12/200		
Local	: Owner:	Based On	Comment:				
Owner Name:		J Farliect St	tructure Record:		Estimated Reconstruc	ction/Bonnie Costs	
Winthrop		1979	uucture Record:	-	Esumated Reconstruc	\$53,196.00	
		,1					
	evation: FIRM Map		The state of the s				
260		A2	11				
Feet Feet NA	AVD 88	Feet	NGVD				
Primary Type:	Primary Material:	Primary Heig					
Bulkhead/ Seawall	Concrete	Under 5 Fee	t	10 S			
Secondary Type:	Secondary Material:						
Revetment	Stone	5 to 10 Feet			The state of the s	1000	
Structure Summary	: te seawall has a wave retur	6-11-11-06			FI W. KAN A MATELLA TANKS		
slopes outshore from and parking lot are	m the toe of the seawall. T behind the structure. This	he stones are on aver-	age 2 feet by 1 fo the Army Corps o	ot by 1 foot in size. If Engineers.	The beach is in front	and the road	
Condition	B Good		Priority	ll Low Priorit	.v		
Rating Level of Action	Minor		Rating Action	Low Priorit Future Pro	y ject Consideration		
Description	Structure observed to exhi problems, superficial in na		Action Descripti	on Inshore St	ructures Present with		
	to landform is present. St adequate to provide protec coastal storm with no dam to prevent / limit future det life of structure.	ructure / landform ction from a major age. Actions taken		potential ic	or Significant Infrastru	cture Damage	
	S:	Structure Docui	ments:		082-017-000-00		

Structure Assessment Form

Town: Winthrop

Structure ID: 082-017-000-007-200

		Location			Date:	
Local		Frances A	/enue		6/12/20	
Presumed Structur	re Owner:	Based On 6	Comment:			
Local						
Owner Name:		; Farliest Str	ucture Record:	Ec	timated Reconstructi	on/Poppir Costs
Winthrop		1961	detare Record.	Ë	umated Reconstructi	\$36,520.00
		1		1		
	levation: FIRM Map					
55	JAN (2) 00	A2	11			
Feet Feet I	NAVD 88	Feet I	NGVD			
rimary Type:	Primary Material:	Primary Heigh	<u>t:</u>			
Groin/ Jetty	Stone	Under 5 Feet				
econdary Type:	Secondary Material	: Secondary He	ight:			
	J	1				
tructure Summar	y : coming unraveled at the too			The second second		
Condition Cating evel of Action Description	Fair Moderate Structure is sound but ma deterioration, section loss, undermining, and/or scoul to withstand major coastal moderate damage. Action structure to provide full procoastal storm and for extestructure. Moderate wind landform exists. Landform to fully protect shoreline distorm. Actions taken to primaterial for full protection	cracking, spalling, Structure adequate storm with little to s taken to reinforce otection from major nding life of or wave damage to may not be sufficient uring a major coastal ovide addition	Priority Rating Action Description	Inshore Struc	t Consideration tures Present with Li Significant Infrastruct	
		Structure Docum				
tructure Image 32-017-000-007-2		Structure Docum	April 1961 Propo	osed Jetty in Accompanying	082-017-000-007- 082-017-000-007-	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-017-000-007-300

Local		Location:		Date:	
		Frances Avenue			6/12/2007
Presumed Structur	re Owner:	Based On Cor	,		
Local				<u> </u>	
Owner Name:		Earliest Struc	ture Record:	Estimated Reconstr	uction/Repair Cost:
Winthrop		Unkown			\$25,225.00
	levation: FIRM Map Zone:	FIRM Map Eleva	tion:		
210	A2		11		
Feet Feet N	NAVD 88	Feet NG	VD	A Fair	
Primary Type:	Primary Material:	Primary Height:	<u></u>		
Revetment	Stone	5 to 10 Feet		12 12 12 12 12 12 12 12 12 12 12 12 12 1	
Secondary Type:	Secondary Material:	Secondary Heigh	t:	THE STATE OF THE S	
Structure Summary					
mortar loss; howe	reverment is at a 1 on 2 slope. The ver, the stones are staying in place v	stones are on aver vell. A timber fend	age 1 foot by 1 foo oe is across the top	 t. The stones have concrete mortal of the wall. 	ar. There is some
Condition	В		Priority	II .	
Rating	Good		Rating	Low Priority	
Level of Action	Minor		Action	Future Project Consideration	
Description	Structure observed to exhibit very problems, superficial in nature. Mit to landform is present. Structure adequate to provide protection fror coastal storm with no damage. Act to prevent / limit future deterioration life of structure.	nor erosion / landform n a major tions taken	Description	Inshore Structures Present with potential for Significant Infrastri	n Limited ucture Damage

Structure Assessment Form

Town: Winthrop

Structure ID: 082-018-000-003-100

Property Owner:			Location:		Date:		
Local	<u> </u>	·	Shirley Street			6/12/2007	
Presumed Structure	e Owner:		Based On Com	ment:	,		
Local							
Owner Name:			Earliest Structu	re Record:	Estimated Reconstructi	ion/Repair Cost:	
Winthrop			Unkown			\$381,381.00	
Length: Top E	levation: f	IRM Map Zone:	FIRM Map Elevation	n:			
635		A2	1	1			
Feet Feet N	IAVD 88		Feet NGVI)		mar jab	
Primary Type:	Primary	Material:	Primary Height:			5964	
Revetment	Stone		5 to 10 Feet		Z X X	5	
Secondary Type:	Secondar	y Material:	Secondary Height:				
				_	AN		
Structure Summary	/:						
Rating Level of Action Description Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Structure to withstand major coastal storm we moderate damage. Actions taken to structure to provide full protection of coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not to fully protect shoreline during a mestorm. Actions taken to provide admaterial for full protection and external storms.		g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Rating Action Description	Moderate Priority Consider for Active Project Improvalenting Inshore Structures with potential f Infrastructure Damage and/or Lim Residential Dwellings (<1 dwelling) 100 feet of shoreline)	or lited		
Structure Image 082-018-000-003-1		Stru	cture Document	S:			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-019-000-117-100

1 1	:		Location	:		Date:
Local			Beacon St	reet		6/12/200
Presumed Struc	ture Owner:		Based On	Comment:		,
Local			7			<u> </u>
Owner Name:			il Earlinet Ch	ructure Record:	F. (imated Describer 12 12 12
Winthrop		1-	1951	deture Record:	Est	imated Reconstruction/Repair Cost: \$216,180.00
I			1			4210,100.00
	Elevation:	FIRM Map Zone:	FIRM Map Ele			
180		V2		22		
Feet Fee	et NAVD 88		Feet	NGVD	processing the same	
Primary Type:	<u> </u>	Primary Material:	Primary Heigh	nt:		
Groin/ Jetty		Stone	5 to 10 Feet			
Secondary Type	: Se	econdary Material:	Secondary He	ight:		
Structure Summ						
inere is a set of some stones th:	two stone mat have come	ound groins with stones unraveled. These groins	that are approxi	mately 3 feet by 2 fee	et by 2 feet in size.	The middle of the structure has
			Dunc by U	wips or Engl		
Condition	С			Priority	III	
Rating	Fair			Rating	Moderate Prior	rity
Level of Actio				Action		ctive Project Improvement
Description	Structure deteriora	is sound but may exhibition, section loss, cracki	t minor na. spallina	Description	Listing Inshore Structi	ures with potential for
	undermir	ning, and/or scour. Struct and major coastal storm	ure adequate	2000 ipitoti	Infrastructure [Damage and/or Limited
	moderate	damage. Actions taken	to reinforce		100 feet of sho	vellings (<1 dwelling impacted / preline)
	structure	to provide full protection torm and for extending li	from major			•
	structure	. Moderate wind or wave	damage to			
	to fully pr	exists. Landform may no otect shoreline during a	ot be sufficient maior coastal			
	storm. Ad	ctions taken to provide a	ddition			
	material f	or full protection and ext	ended life.			
tructure Ima	ges:		ucture Docum	ents:		
		Strı			osed Groins at	082-019-000-117-100-COE1A
82-019-000-117	'-100-PHO1A	Stro .jpg USA	ACE .	February 20, Prop	osed Groins at	082-019-000-117-100-COE1A 082-019-000-117-100-COE1B
32-019-000-117 32-019-000-117	'-100-PHO1A '-100-PHO1B	Stro Lipg USA	ACE	February 20, Prop	osed Groin and	082-019-000-117-100-COE1B
tructure Ima 82-019-000-117 82-019-000-117 82-019-000-117	'-100-PHO1A '-100-PHO1B	Stru ipg USA	ACE	February 20, Prop August 23, 1 Prop December 1 Prop	osed Groin and	082-019-000-117-100-COE1B 082-019-000-117-100-COE1C
82-019-000-117 82-019-000-117	'-100-PHO1A '-100-PHO1B	Stru ipg USA ipg USA	ACE ACE ACE DCR	February 20, Prop August 23, 1 Prop December 1 Prop N/A New	osed Groin and osed Seawall Granite Coping	082-019-000-117-100-COE1B 082-019-000-117-100-COE1C 082-019-000-117-100-DCR1A
82-019-000-117 82-019-000-117	'-100-PHO1A '-100-PHO1B	Stru Jipg USA Jipg USA MA-	ACE ACE ACE DCR	February 20, Prop August 23, 1 Prop December 1 Prop N/A New 9/14/1955 Preli	osed Groin and osed Seawall	082-019-000-117-100-COE1B 082-019-000-117-100-COE1C

12/21/1954

2/10/1953

1/19/1944

Winthrop Shore

Winthrop Shore

Winthrop Beach, MA

MA-DCR

MA-DCR

MA-DCR

082-019-000-117-100-DCR1E

082-019-000-117-100-DCR1F

082-019-000-117-100-DCR1G

Structure Assessment Form

Town: Winthrop
Structure ID: 082-019-000-117-100

MA-DCR 7/21/1938		Winthrop Shore	082-019-000-117-1 00 -DCR1H
DEP	June 21, 193	Plan Accompanying	082-019-000-117-100-LIC1A
DEP	March 31, 19	Proposed Groin and	082-019-000-117-100-LIC1B

Structure Assessment Form

Town: Winthrop

Structure ID: 082-020-000-024-100

Property Owner:		Location:		Date:
Local		Sargent Stree	et	6/12/2007
Presumed Structur	e Owner:	Based On Cor	mment:	
Local	<u> </u>			
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstruction/Repair Cost:
Winthrop		Unkown		\$98,670.00
Length: Top E	levation: FIRM Map Zone:	FIRM Map Elevat	ion	
65	A2	TIKH Map Elevat	10	
Feet Feet N	IAVD 88	Feet NG	VD	
Primary Type:	Primary Material:	Primary Height:		The state of the s
Bulkhead/ Seawall	Concrete	5 to 10 Feet		
Secondary Type:	Secondary Material:	Secondary Heigh	t:	
		1		
Structure Summary The mortared stone		hind it The toe is	undermined Crack	ing and spalling are visible on the wall. The public
access stairs are bi	roken.	rina it. The toe is	undermined, Clack	ing and spanning are visible on the wan. The public
I Condition	D			
Rating	Poor		Priority Rating	III Moderate Priority
Level of Action	Major		Action	Consider for Active Project Improvement
Description	Structure exhibits advanced levels		D 4.4	Listing
	deterioration, section loss, cracking undermining, and/or scour. Structure strong risk of significant damage a failure during a major coastal store should be monitored until repairs/reconstruction can be initially as a reconstruct structure to a staken to reconstruct structure to a	ture has and possible m. Structure ated. Actions	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
	taken to reconstruct structure to recapacity to resist a major coastal Landform eroded, stability threate Landform not adequate to provide during major coastal storm. Actior recreate landform to adequate limprotection from a major coastal storm.	storm. ned. protection is taken to its for full		
Structure Image 082-020-000-024-10		acture Documen	ts:	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-020-000-038-100

Property Owner:		Location:			Date:	
Local		Court Road				6/12/2007
Presumed Structur	re Owner:	Based On Con	nment:		·	
Local						
Owner Name:		Earliest Struct	ture Record:	Estimated I	Reconstruction/F	Repair Cost:
Winthrop	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Unkown				371,910.00
The second secon	levation: FIRM Map Zone:	FIRM Map Elevat	ion:			
245	A2		10		in the same	
Feet Feet M	NAVD 88	Feet NG	VD			
Primary Type:	Primary Material:	Primary Height:	····	Pelkelmone of The New		
Bulkhead/ Seawall	Stone	5 to 10 Feet				
Secondary Type:	Secondary Material:	Secondary Height	<u>t:</u>			
1						
Structure Summary		4				
The Seawaii is mor	tared stone with a beach in front an	d private property	behind it. The stor	nes are approximately 1 fo	ot in diameter.	
1						
Condition	D		Priority	II		
Rating	Poor		Rating	Low Priority		
Level of Action	Major Structure exhibits advanced levels		Action	Future Project Conside	eration	
Description	deterioration, section loss, cracking undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storm should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threater Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limit protection from a major coastal storm.	ure has Ind possible In. Structure Ited. Actions Ingain full Istorm. Ined. Ined. Inprotection Is taken to Its for full	Description	Inshore Structures Pre potential for Significant		
Structure Image 082-020-000-038-1		cture Documen	ıts:			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-021-000-106-100

Property Owner:		Location:	till dillike in eer de eller kamen halt van in ''' yn revend van de llike di'' dillike in 'e de dillike die de	Date:	
Local		Somerset Ave	nue		6/12/2007
Presumed Structure	e Owner:	Based On Com	ment:		
Local					
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/	
Winthrop		Unkown			\$9,517.00
	levation: FIRM Map Zone:	FIRM Map Elevati	on:		
35	A2		10		
Feet Feet N	IAVD 88	Feet NGV	/D		
Primary Type:	Primary Material:	Primary Height:			
Bulkhead/ Seawall	.*	5 to 10 Feet			
Secondary Type: Revetment	Secondary Material:	Secondary Height 5 to 10 Feet			
•	Stone	12 to to reet		3650 (12 12 12 12 12 12 12 12 12 12 12 12 12 1	l .
Structure Summary		oran has stones that	are approximately	/ 2 feet by 2 feet by 2 feet in size. There	is no visible
	structures is the road and in front is				, 13 FIG VISIDIC
1					
Condition	B Good		Priority	III Moderate Priority	
Rating Level of Action	Minor		Rating Action	Consider for Active Project Improven	nent
Description Description	Structure observed to exhibit very	minor	71011071	Listing	
	problems, superficial in nature. Mit to landform is present. Structure	inor erosion	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited	4
	adequate to provide protection fro	m a major		Residential Dwellings (<1 dwelling in	
	coastal storm with no damage. A to prevent / limit future deterioration	ctions taken on and extend		100 feet of shoreline)	
	life of structure.				
Structure Image	os. Stri	ucture Documen	ıts:		
082-021-000-106-1		acture bocumen	i.G.		
•					

Structure Assessment Form

Town: Winthrop

Structure ID: 082-026-000-052-100

Key: community-map-block-parcel-structure

Property Owner:		Locatio	n:		Date:
State	The second secon	Charles S			6/13/200
Presumed Structu	re Owner:	Based On	Comment:		
State					
Owner Name:		- I	be and the B		
MA-DCR	and the second s	Earliest S	tructure Record:	Es	timated Reconstruction/Repair Cost: \$445,104.00
		11033		1	\$ 14 5,104.00
Length: Top I	Elevation: FIRM Map Z	one: FIRM Map El	evation:		
240		V2	19		
Feet Feet	NAVD 88	Feet	NGVD	man I.	
Primary Type:	Primary Material:	Primary Heig			
Bulkhead/ Seawal	ll Concrete	10 to 15 Fee	et		
Secondary Type:	Secondary Material:	Secondary H	eight:		ă.
Revetment	Stone	5 to 10 Feet			
Structure Summar					25 No. 10 No.
The cast in place	bulkhead is 8 feet wide by 3 fe	et high with wave re	turn face. There	is spalling, cracking, ar	nd some areas of undermine. The
riprap is comprise	d of stones that are approxima	itely 3 feet by 2 feet	by 2 feet in size.	•	
Condition	С		Priority	V	
Rating	Fair		Rating		lighest Priority
Level of Action	Moderate		Action	Consider For	Immediate Action Due to Public
Description	Structure is sound but may e		ъ .	Safety and W	
	deterioration, section loss, c undermining, and/or scour. § to withstand major coastal si moderate damage. Actions i structure to provide full prote coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline duri storm. Actions taken to prov material for full protection an	Structure adequate torm with little to aken to reinforce ection from major ling life of wave damage to ay not be sufficient ng a major coastal ide addition	Descript	Potential for I High Density of structure m stabilization a loss of proper	re Structures Present with nfrastructure Damage and/or Residential Dwellings Condition nay warrant emergency s failure may result in potential ty and/or life. (>10 dwellings 0 feet of shoreline)
Structure Imag	es:	Structure Docur	nents:		
82-026-000-052-1	100-PHO1A.jpg	USACE	December 1	Proposed Seawall	082-026-000-052-100-COE1A
82-026-000-052-1		MA-DCR	6/3/1984	Winthrop Parkway	082-026-000-052-100-DCR1A
82-026-000-052-1	100-PHO1C.jpg	MA-DCR	August 1978	Storm Damage	082-026-000-052-100-DCR1B
		MA-DCR	June 1964	Proposed Cap Wali	082-026-000-052-100-DCR1C
		MA-DCR	11/12/63	Winthrop Shore	082-026-000-052-100-DCR1D
		MA-DCR	6/15/60	Winthrop Shore	082-026-000-052-100-DCR1E
		MA-DCR MA-DCR	6/15/60 7/12/1958	Winthrop Shore Winthrop Shore	082-026-000-052-100-DCR1E 082-026-000-052-100-DCR1F
			1	1	

5/25/1955

Winthrop Shore

MA-DCR

082-026-000-052-100-DCR1I

Structure Assessment Form

Town: Winthrop
Structure ID: 082-026-000-052-100

MA-DCR	12/21/54	Winthrop Shore	082-026-000-052-100-DCR1J
MA-DCR	4/30/1954	Winthrop Shore	082-026-000-052-100-DCR1K
MA-DCR	11/10/1953	Winthrop Shore	082-026-000-052-100-DCR1L
MA-DCR	11/15/1948	Winthrop Shore	082-026-000-052-100-DCR1M
MA-DCR	1/24/1947	Winthrop Shore	082-026-000-052-100-DCR1N
MA-DCR	3/28/1946	Winthrop Shore	082-026-000-052-100-DCR1O
MA-DCR	12/7/1944	Winthrop Shore	082-026-000-052-100-DCR1P
MA-DCR	11/30/1943	Winthrop Shore	082-026-000-052-100-DCR1Q
MA-DCR	10/15/1941	Winthrop Shore	082-026-000-052-100-DCR1R
MA-DCR	2/13/1900	Winthrop Shore	082-026-000-052-100-DCR1S
MA-DCR	6/15/1899	Winthrop Shore	082-026-000-052-100-DCR1T

Structure Assessment Form

Town: Winthrop

Structure ID: 082-027-000-010-100

Property Owner:		Location:		D	ate:
Local		Court Road			6/12/2007
Presumed Structur	e Owner:	Based On Com	ment:		
Local					
Owner Name:		Earliest Structu	ıre Record:	Estimated Rec	onstruction/Repair Cost:
Winthrop		Unkown			\$14,414.00
******	levation: FIRM Map Zone:	FIRM Map Elevation		1)000	
12	A2		10		
	NAVD 88	Feet NGV	D		1 1 1
Primary Type: Revetment	Primary Material: Concrete	Primary Height: 5 to 10 Feet			
•		,			
Secondary Type:	Secondary Material:	Secondary Height			
Structure Summary	, .	1			
	stone revetment is to protect the ou	tfall pipe. The toe i	s broken and und	ermi ned.	
Condition	D		Destroites	II	
Rating	Poor		Priority Rating	Low Priority	
Level of Action	Major		Action	Future Project Considerat	ion
Description	Structure exhibits advanced levels deterioration, section loss, crackin undermining, and/or scour. Struct strong risk of significant damage a failure during a major coastal storn should be monitored until repairs/reconstruction can be initiataken to reconstruct structure to recapacity to resist a major coastal standform eroded, stability threatel Landform not adequate to provide during major coastal storm. Action recreate landform to adequate limit protection from a major coastal storn.	g, spalling, cure has and possible m. Structure ated. Actions egain full storm. ned. protection s taken to its for full	Description	Inshore Structures Preser potential for Significant Inf	
Structure Image 082-027-000-010-1		icture Document	35 °		

Structure Assessment Form

Town: Winthrop

Structure ID: 082-040-000-005-100

Key: community-map-block-parcel-structure

Property Owner:	1200	Location	า:		Date:	
State		Winthrop	Shore Drive			6/12/2007
Presumed Structu	re Owner:	Based On	Comment:		(a)	
State						
Owner Name:		/ Farliect St	ructure Record:	E,	stimated Reconstruction	on/Penair Cost
MA-DCR		1899	detaile Necold.	- [\$7,382,628.00
Length: Top	Elevation: FIRM Ma	ap Zone: FIRM Map Ele	evation:			
5430 F	LICYUUOII.	V2	19	The state of the s		
Feet Feet	NAVD 88	l Feet	NGVD			4
Primary Type:	Primary Material					
Bulkhead/ Seawa		5 to 10 Feet				
Secondary Type:	Secondary Materi	al: Secondary He	eight:			
Revetment	Stone	5 to 10 Feet	<u></u> -	The state of the state of		4
Structure Summar	y:					
The cast in place	bulkhead is 3 feet wide by	3 feet high. There is spa	alling, cracking an	d some areas of under	mine (locally 30 feet)	. The beach is
llocated in front of	the structures and the roa	d is behind them.				
Condition	С		Duionit	V		
Rating	Fair		Priority Rating	<u>-</u>	Highest Priority	
Level of Action	Moderate		Action		Immediate Action Du	e to Public
Description	Structure is sound but m			Safety and W	/elfare Issues	
	deterioration, section los undermining, and/or sco to withstand major coast moderate damage. Actio structure to provide full p coastal storm and for ex structure. Moderate windlandform exists. Landfort to fully protect shoreline storm. Actions taken to p material for full protection	ur. Structure adequate al storm with little to ons taken to reinforce protection from major tending life of d or wave damage to m may not be sufficient during a major coastal provide addition	Descriptio	Potential for l High Density of structure n stabilization a loss of prope	re Structures Present nfrastructure Damage Residential Dwellings nay warrant emergenc as failure may result in rty and/or life. (>10 dw 10 feet of shoreline)	e and/or Condition by potential
Structure Imag 082-040-000-005-		Structure Docun		Dronger of Consumit	1000 040 000 005	
082-040-000-005-		MA-DCR		Proposed Seawall Storm Damage	082-040-000-005-1	
082-040-000-005-		MA-DCR	August 1978 June 1964		082-040-000-005-1	
082-040-000-005-		MA-DCR	11/12/63	Proposed Cap wall Winthrop Shore	082-040-000-005-1	
082-040-000-005-1		MA-DCR	6/15/1960	Winthrop Shore	082-040-000-005-1	
082-040-000-005-1		MA-DCR	1/12/1956	Winthrop Shore	082-040-000-005-1	
	פיקוני יי בייי	100 (50) (1712/1000	e entrack Shore	1002-040-000-003-1	TAPELA AND IN
		MA-DCR	7/12/1958	Winthrop Shore	082-040-000-005-1	

5/25/1955

12/21/1954

Winthrop Shore

Winthrop Shore

MA-DCR

MA-DCR

082-040-000-005-100-DCR1H

082-040-000-005-100-DCR1I

Structure Assessment Form

Town: Winthrop

Structure ID: 082-040-000-005-100

MA-DCR	10/20/1954	Winthrop Beach	082-040-000-005-100-DCR1J
MA-DCR	August 1954	Winthrop Shore	082-040-000-005-100-DCR1K
MA-DCR	4/30/1954	Winthrop Shore	082-040-000-005-100-DCR1L
MA-DCR	11/15/1948	Winthrop Shore	082-040-000-005-100-DCR1M
MA-DCR	11/30/1943	Winthrop Shore	082-040-000-005-100-DCR1N
MA-DCR	10/15/1941	Winthrop Shore	082-040-000-005-100-DCR1O
MA-DCR	6/28/39	Winthrop Shore	082-040-000-005-100-DCR1P
MA-DCR	3/24/38	Winthrop Shore	082-040-000-005-100-DCR1Q
MA-DCR	6/20/1937	Winthrop Shore	082-040-000-005-100-DCR1R
MA-DCR	3/15/1934	Winthrop Shore	082-040-000-005-100-DCR1S
MA-DCR	3/16/1931	Winthrop Shore	082-040-000-005-100-DCR1T
MA-DCR	3/21/1921	Winthrop Shore	082-040-000-005-100-DCR1U
MA-DCR	2/13/1900	Winthrop Shore	082-040-000-005-100-DCR1V
MA-DCR	8/18/1899	Winthrop Shore	082-040-000-005-100-DCR1W
MA-DCR	6/15/1899	Winthrop Shore	082-040-000-005-100-DCR1X

Structure Assessment Form

Town: Winthrop

Structure ID: 082-040-000-006-100

roperty Owner:			Location:				Date:	
Local		Five Sisters	Five Sisters				6/12/2007	
resumed Structur	e Owner:		Based On Co	Based On Comment:			,	
ocal	to make the section of the section.							
wner Name:			Earliest Struc	cture Record:		Est	timated Reconstru	uction/Repair Cost:
/inthrop		<u> </u>	1933		_			\$1,076,920.00
ength: Top E	levation:	FIRM Map Zone:	FIRM Map Eleva	ation:				
2180		V2		19				
Feet Feet N	NAVD 88		Feet NO	GVD				100
rimary Type:	Pr	imary Material:	Primary Height:					-
reakwater	S	tone	Over 15 Feet			-		
econdary Type:	Se	condary Material:	Secondary Heig	ht:	E SAN			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tructure Summan	y:				45			
Condition Rating Level of Action Description	problems, to landfor adequate coastal st	observed to exhibit ver, superficial in nature. Now meeting the superficial in nature. It is present. Structure to provide protection orm with no damage. At I limit future deteriorate cture.	/linor erosion e / landform om a major Actions taken	Priority Rating Action Descripti	Cor Safe Or Pote Higg of s stat loss	esider For ety and W ical Inshor ential for II n Density I tructure m oilization a	dighest Priority Immediate Action elfare Issues re Structures Pres firastructure Dam Residential Dwelli ay warrant emerg s failure may res ty and/or life. (>10 0 feet of shoreline	sent with lage and/or lings Condition gency lit in potential O dwellings
ructure Image	ec.	Str	ructure Docume	ente:				
32-040-000-006-1				May 1933	Proposed S	tone	082-040-000-0	06-100-DCR1A
				July 1934	Proposed E		082-040-000-0	
		<u> </u>		June 1935	Proposed E		082-040-000-0	
			•					

Structure Assessment Form

Town: Winthrop

Structure ID: 082-042-000-001-100

Property Owner:			Location:			Date:	
Local			Pleasant Stree	Pleasant Street Based On Comment:			
Presumed Structur	re Owner	:	Based On Con			,	
Local							
Owner Name:			I Earliest Structure Record:		5-	Karata d Barrard	
Winthrop		وم ودين ويوم ويون و المراجع والمرجع والمرجع والمرجع	Unkown	ure Record:	_ <u>Es</u>	timated Reconstri	uction/Repair Cost: \$47,309.00
		ar and construction of the	1		j		Ψ17,303.00
	Elevation:	FIRM Map Zone:	FIRM Map Elevat	ion:	N. S. M. S. J.		(*)
280		A2		10	-		()- ()
Feet Feet	NAVD 88		Feet NG	/D			#.,
rimary Type:		Primary Material:	Primary Height:			A PART OF THE PART	
ulkhead/ Seawal	I	Concrete	Under 5 Feet			90	
econdary Type:		Secondary Material:	Secondary Height	-			
Bulkhead/ Seawal	_	Concrete	Under 5 Feet			A.	
tructure Summar	v ·					CHOICE THE SEC.	
Rating Level of Action Description	Structu problen to landi adequa coastal to preve	re observed to exhibit ver ns, superficial in nature. M form is present. Structur te to provide protection fr storm with no damage. A ent / limit future deteriorat tructure.	flinor erosion e / landform om a major Actions taken	Rating Action Descripti	on High Value In for Infrastructor Density Resid	Next Project Cons shore Structures ure Damage and/ lential Dwellings (0 feet of shoreling	with Potential or Moderate 1-10 dwellings
ructure Imag			ucture Documen				
32-042-000-001-	100-PHO	1A.jpg DE	P Se	eptember 2	In Accompanying	082-042-000-0	01-100-LIC1A
)82-042-000-001 <u>-</u>					In Accompanying	082-042-000-0	01-100-LIC1A

Structure Assessment Form

Town: Winthrop
Structure ID: 082-051-000-026-100

Key: community-map-block-parcel-structure

Property Owner:		Locatio	on:		Date:
Local		Wave W	'ay		6/12/2007
Presumed Structur	e Owner:	Based O	n Comment:		
Local					A COLOR SAN COLO
Owner Name:		J Earliest S	Structure Record:	F	stimated Reconstruction/Repair Cost:
Winthrop		1944	- Journal McCord		\$166,000.00
Length: Top E	levation: FIRM	Map Zone: FIRM Map E	Elevation:		
250		V2	22		
Feet Feet N	NAVD 88	Fee	et NGVD		The state of the s
Primary Type:	Primary Mater	ial: Primary Hei	ght:		
Groin/ Jetty	Stone	Under 5 Fee			
Secondary Type:	Secondary Mat	erial: Secondary F	leight:		occur.
				45.5	
Structure Summary					n size. The stones were motarted
Condition Rating Level of Action Description	undermining, and/or s to withstand major co- moderate damage. Ac structure to provide fu coastal storm and for structure. Moderate v landform exists. Land	loss, cracking, spalling, cour. Structure adequate astal storm with little to ctions taken to reinforce III protection from major extending life of wind or wave damage to form may not be sufficient ne during a major coastal to provide addition	Priority Rating Action Descriptio	Listing Inshore Structure	Active Project Improvement ctures with potential for Damage and/or Limited Dwellings (<1 dwelling impacted /
Structure Image	es:	Structure Docu	ments:		
082-051-000-026-1		USACE		Proposed Groins at	082-051-000-026-100-COE1A
082-051-000-026-1	00-PHO1B.jpg	USACE	December 1	Proposed Seawall	082-051-000-026-100-COE1B
082-051-000-026-1	00-PHO1C.jpg	MA-DCR	October 197	Winthrop Shore	082-051-000-026-100-DCR1A
		MA-DCR	5/25/1955	Winthrop Shore	082-051-000-026-100-DCR1B
		MA-DCR		Winthrop Shore	082-051-000-026-100-DCR1C
		MA-DCR	2/1/1955	Winthrop Shore	082-051-000-026-100-DCR1D
		MA-DCR	2/1/1955	Winthrop Shore	082-051-000-026-100-DCR1E
		MA-DCR	12/21/1954	Winthrop Shore	082-051-000-026-100-DCR1F

10/21/1953

2/10/1953

Winthrop Shore

Winthrop Beach -

MA-DCR

MA-DCR

082-051-000-026-100-DCR1G

082-051-000-026-100-DCR1H

Structure Assessment Form

Town: Winthrop

Structure ID: 082-051-000-026-100

MA-DCR	7/12/1951	Winthrop Shore	082-051-000-026-100-DCR1I
MA-DCR	1/19/1944	Winthrop Shore	082-051-000-026-100-DCR1J
DEP	April 1951	Proposed Groins -	082-051-000-026-100-LIC1A

Structure Assessment Form

Town: Winthrop

Structure ID: 082-052-000-001-100

Property Owner:		***************************************	Location:			Date:	
Local			Main Street 6/				
Presumed Structu	re Owner:		Based On Comment:				
Local							
Owner Name:			Earliest Struc	cture Record:	Estimate	d Reconstruction/Repair Cost;	
Winthrop		Unkown			\$9,610.00		
	levation: FIR	M Map Zone:	FIRM Map Eleva	ntion:			
80		A2		10			
Feet Feet I	NAVD 88		Feet NO	GVD	The state of		
Primary Type:	Primary Ma	terial:	Primary Height:				
Revetment	Stone		5 to 10 Feet			Z	
Secondary Type:	Secondary M	laterial:	Secondary Heigl	ht:			
		-			### Table 1		
Structure Summar	v :						
The placed riprap	is comprised of stone	s that are appro	oximately 6 feet b	y 2 feet by 2 feet in	size. Mean high water	comes approximately half	
way up the stones	5.					, , , , , , , , , , , , , , , , , , , ,	
	_						
Condition	В			Priority	IV		
Rating	Good			Rating	High Priority		
Level of Action Description	Minor Structure observed	A		Action		oject Construction Listing	
•	problems, superficia to landform is prese adequate to provide coastal storm with r to prevent / limit futu- life of structure.	al in nature. Min ent. Structure / e protection fron no damage. Ac	or erosion landform a major tions taken	Description	for Infrastructure Da	Structures with Potential mage and/or Moderate Dwellings (1-10 dwellings of shoreline)	
			ar ar strument,				
Structure Image		Struc	cture Docume	nts:			
82-052-000-001-1							
82-052-000-001-1	00-PHO1B.jpg						
			•				

Structure Assessment Form

Town: Winthrop
Structure ID: 082-060-000-005-100

e Owner:	Morton Si Based On			6/12	2/2007
e Owner:	Based On	Comment:			
		CONTINUENCE			
	l Farliect St	tructure Becords	E	timated Beconstruction/Denair	Coets
	1980	ducture Record.		\$628,69	-
	J.		1		
levation: FIRM Map 2			400		
1	i		44.5		
			and the second		
-		and the same of th			
ja	,			1. 数 2. 2. 2.	
Secondary Material:	Secondary H	eight:			
1	1			De Davis	
	with random enacing	The stones are not	interlocking. The st	tones are inconsistent in size. M	Voct.
2 feet by 2 feet by 1 foot in s	ize. In front of the ri	prap is a marsh and	d canal; while behind	the structure there are roads a	nd
С		Priority	III		
Fair		Rating	Moderate Pri	ority	
Moderate		Action		Active Project Improvement	
deterioration, section loss, oundermining, and/or scour. to withstand major coastal smoderate damage. Actions structure to provide full prot coastal storm and for extenstructure. Moderate wind o landform exists. Landform to fully protect shoreline durstorm. Actions taken to provide middle storm.	cracking, spalling, Structure adequate storm with little to taken to reinforce ection from major ding life of r wave damage to nay not be sufficient ring a major coastal vide addition	Description	Inshore Structure Infrastructure Residential D	Damage and/or Limited Dwellings (<1 dwelling impacted	11
	Structure Docur	February 26,		082-060-000-005-100-DCR1	
	Primary Material: Stone Secondary Material: Seco	levation: FIRM Map Zone: A2 Primary Material: Primary Heig Stone Secondary Material: Secondary Heig Secondary Material: Secondary Heig Secondary Material: Secondary Heig Secondary Heig Secondary Heig Secondary Heig Secondary Heig Secondary Heig The Secondary Heig Seco	levation: FIRM Map Zone: FIRM Map Elevation: A2 10 AVD 88 Feet NGVD Primary Material: Primary Height: Under 5 Feet Secondary Material: Secondary Height: Under 5 Feet Secondary Material: Secondary Height: C Secondary Material: Secondary Height: C Priority Fair Rating Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Documents: Structure Documents: Structure Documents:	levation: FIRM Map Zone: FIRM Map Elevation: A2 10 Feet NGVD Primary Material: Primary Height: Under 5 Feet Secondary Material: Secondary Height: Secondary Material: Secondary Height: Under 5 Feet Secondary Material: Secondary Height: III Fair Secondary Moderate Primary Moderate Prima	Secondary Material: Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Firm Map Elevation: Feet NGVD

Structure Assessment Form

Town: Winthrop

Structure ID: 082-061-000-020-100

		Location:		Date:			
ocal		Kennedy Ro	Kennedy Road				
resumed Structui	re Owner:	Based On C	Based On Comment:				
ocal							
wner Name:		." Earliest Stru	cture Record:	Estimated Reconstruction/Repair Cost			
Vinthrop		1980		\$132,132.00			
	Elevation: FIRM M	ap Zone: FIRM Map Elev		W-II			
1100		A2	10				
Feet Feet I	NAVD 88	Feet N	GVD				
imary Type:	Primary Materia		<u> </u>				
evetment	Stone	5 to 10 Feet					
condary Type:	Secondary Mate	rial: Secondary Heig	iht:				
				A STATE OF THE STA			
ucture Summar				of the coastal bank. Behind the slope is a utility			
ating evel of Action Jescription	Good Minor Structure observed to e problems, superficial in to landform is present. adequate to provide pro coastal storm with no d to prevent / limit future life of structure.	nature. Minor erosion Structure / landform otection from a major	Rating Action Description	None Long Term Planning Considerations No Inshore Structures or Residential Dwelling Units Present			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-063-000-072-100

Property Owner:		Location:		Date:
Local		Grover's Aven	ue	6/13/2007
Presumed Structure	e Owner:	Based On Comment:		,
Local				
Owner Name:		" Earliest Structi	ure Record:	Estimated Reconstruction/Repair Cost:
Winthrop	2020	Unkown		\$491,469.00
Length: Top El	evation: FIRM Map Zone: V2	FIRM Map Elevati	on: 21	
1 1	AVD 88	Feet NGV		
Primary Type: Bulkhead/ Seawall	Primary Material: Concrete	Primary Height: 10 to 15 Feet		
Secondary Type:	Secondary Material: Stone	Secondary Height	<u>:</u>	
Structure Summary	9	5 to 10 Feet		
Condition Rating Level of Action Description	B Good Minor Structure observed to exhibit very problems, superficial in nature. M to landform is present. Structure adequate to provide protection from	minor inor erosion / landform m a major	ling and cracks in Priority Rating Action Description	the wall. III Moderate Priority Consider for Active Project Improvement Listing Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted /
	coastal storm with no damage. A to prevent / limit future deteriorati life of structure.			100 feet of shoreline)
Structure Image 082-063-000-072-10		ucture Document	ts:	
082-063-000-072-10				
082-063-000-072-10	00-PHO1C.jpg			

Structure Assessment Form

Town: Winthrop

Structure ID: 082-063-000-072-200

Property Owner:		Location:	Pellinderkel	Date:	
Local		Grover's Avenu	ie .		6/13/2007
Presumed Structure Owner: Local Owner Name: Winthrop Length: Top Elevation: FIRM Map Zone:		Based On Com Earliest Structu Unkown	ıre Record:	Estimated Reconstruct	on/Repair Cost: \$126,113.00
340 Feet Feet N Primary Type: Bulkhead/ Seawall Secondary Type: Revetment Structure Summan	NAVD 88 Primary Material: Concrete Secondary Material: Stone	Feet NGV Primary Height: 10 to 15 Feet Secondary Height: 5 to 10 Feet	21 D		
The 3 feet wide co size and stacked o	oncrete wall is cast in place with a ne stone high.	wave return face. Th	e dumped ri prap s	stones are approximately 3 feet by 2 f	eet by 2 feet in
Condition Rating Level of Action Description	Good Minor Structure observed to exhibit ver problems, superficial in nature. It to landform is present. Structure adequate to provide protection fr coastal storm with no damage. It to prevent / limit future deteriorate life of structure.	Minor erosion e / landform rom a major Actions taken	Priority Rating Action Description	III Moderate Priority Consider for Active Project Improlishing Inshore Structures with potential funfrastructure Damage and/or Lim Residential Dwellings (<1 dwellin 100 feet of shoreline)	for nited
Structure Image 082-063-000-072-2 082-063-000-072-2 082-063-000-072-2	200-PHO2A.jpg 200-PHO2B.jpg	ructure Document	ts:		

Structure Assessment Form

Town: Winthrop

Structure ID: 082-068-000-080-100

Key: community-map-block-parcel-structure

Property Owner:		Location	n:		Date:	
Local		Grover's	Avenue	6/		6/12/2007
Presumed Structu	re Owner:	Based On	Comment:			
Local	a control of the cont					
Owner Name:		* Earliest Si	tructure Record:		Estimated Reconstruct	ion/Renair Cost
Winthrop		1899		_ /	Samuel Reconstruct	\$1,574,021.00
ength: Top I	levation: FIRM Map	Zone: FIRM Map El	evation:	SECTION AND ADDRESS OF THE SEC		
570		V2	21			
Feet Feet	NAVD 88	Feet	NGVD			direction of the last of the l
Primary Type:	Primary Material:	Primary Heig	ht:	A Company	La Fall Pa	
ulkhead/ Seawal	Concrete	Over 15 Fee	t			Line .
econdary Type:	Secondary Material:	Secondary H	eight:			
Revetment	Stone	10 to 15 Fee				
tructure Summar	y :					
Condition Rating Level of Action Description	Fair Moderate Structure is sound but may deterioration, section loss, undermining, and/or scour. to withstand major coastal moderate damage. Actions structure to provide full pro coastal storm and for exter structure. Moderate wind clandform exists. Landform to fully protect shoreline du storm. Actions taken to pro material for full protection a	cracking, spalling, Structure adequate storm with little to staken to reinforce tection from major ading life of or wave damage to may not be sufficient string a major coastal wide addition	Priority Rating Action Descript	Consider For Safety and Various Inshipotential for High Density of structure stabilization loss of proper	Highest Priority or Immediate Action D Welfare Issues ore Structures Presen Infrastructure Damag y Residential Dwelling may warrant emergen as failure may result is erty and/or life. (>10 d 00 feet of shoreline)	t with le and/or s Condition cy in potential
ructure Imag	es:	Structure Docur	ments:			
2-068-000-080-1	00-PHO1A.jpg	USACE	December 1	Proposed Seawall	082-068-000-080-	100-COE1A
		MA-DCR	11/26/1979	Proposed Seawall	082-068-000-080-	100-DCR1A
		MA-DCR	August 1972	Winthrop Shore	082-068-000-080-	100-DCR1B
		MA-DCR	April 1962	Winthrop Shore	082-068-000-080-	100-DCR1C
		MA-DCR	9/14/1955	Preliminary	082-068-000-080-	100-DCR1D
		MA-DCR	5/25/1955	Winthrop Shore	082-068-000-080-	100-DCR1E
		MA-DCR	4/30/1954	Winthrop Shore	082-068-000-080-	100-DCR1F
		MA-DCR	0/18/1050	Minthron Shore	1003 068 000 000	100 505 10

11/15/1948

8/1/1945

Winthrop Shore

Winthrop Shore

MA-DCR

MA-DCR

082-068-000-080-100-DCR1H

082-068-000-080-100-DCR1I

Structure Assessment Form

Town: Winthrop

Structure ID: 082-068-000-080-100

MA-DCR	11/30/1943	Winthrop Shore	082-068-000-080-100-DCR1J
MA-DCR	10/15/1941	Winthrop Shore	082-068-000-080-100-DCR1K
MA-DCR	8/27/1931	Winthrop Shore	082-068-000-080-100-DCR1L
MA-DCR	8/25/1914	Winthrop Shore	082-068-000-080-100-DCR1M
MA-DCR	1/8/1909	Winthrop Shore	082-068-000-080-100-DCR1N
MA-DCR	9/12/1908	Winthrop Shore	082-068-000-080-1 00 -DCR1O
MA-DCR	2/13/1900	Winthrop Shore	082-068-000-080-1 00- DCR1P
MA-DCR	6/15/1899	Winthrop Shore	082-068-000-080-100-DCR1Q

Structure Assessment Form

Town: Winthrop

Structure ID: 082-072-000-052-100

Property Owner:				Location:			D	ate:
State				Seawall Avenue				6/12/2007
Presumed Structur	e Owner:	1	,	Based On Con	nment:			
State			,					
Owner Name:			i	Foodings Chr. at	0		E-Control D	
MA-DCR				Earliest Struct 1920	ure Record:	-	Estimated Rec	snstruction/Repair Cost: \$1,194,871.00
							1	ψ1,151,071.00
1 20 4 40 7 1 1	levation:	FIRM Map	Zone: FIR	M Map Elevati	on:			
1165			V2		28	H =		The state of the s
Feet Feet M	88 DVAV			Feet NG\	/D	N. C. S. C.		
Primary Type:	-1	Primary Material:	Prir	nary Height:	623			できる
Bulkhead/ Seawall	l	Concrete	Un	der 5 Feet				2
Secondary Type:		Secondary Material:	Sec	ondary Height				
Revetment		Stone		o 10 Feet		, ,	Service Control	
Structure Summan	y:							
Rating	Fair				Priority Rating	II Low Prio	rity	
Rating Level of Action Description	Modera Structu deterior underm to withs modera structur coastal structur tandform to fully storm.	re is sound but may ration, section loss, ining, and/or scour. It and major coastal te damage. Actions te to provide full prostorm and for exter e. Moderate wind on exists. Landform protect shoreline du Actions taken to pro I for full protection a	cracking, sp. Structure ac storm with life staken to rei tection from adding life of or wave dam may not be suring a major swide addition	alling, dequate ttle to nforce major age to sufficient coastal		Low Prior Future P Inshore	roject Considerat Structures Preser	
Level of Action Description tructure Image	Modera Structu deterior underm to withs modera structur coastal structur landforr to fully storm. materia	re is sound but may ration, section loss, ining, and/or scour. Itand major coastal te damage. Actions te to provide full prostorm and for extere. Moderate wind on exists. Landform protect shoreline du Actions taken to pro I for full protection a	Structure ac storm with lit staken to rei tection from hiding life of or wave dam may not be suring a major ovide addition and extended Structur MA-DCR	alling, dequate title to inforce major age to sufficient coastal it life.	Rating Action Descripti	Low Prior Future P Inshore is potential Winthrop Parkwa	roject Considerat Structures Preser for Significant Int y 082-072-0 y 082-072-0	nt with Limited frastructure Damage
Level of Action	Modera Structu deterior underm to withs modera structur coastal structur landform to fully storm. A materia	re is sound but may ration, section loss, ining, and/or scour. Itand major coastal te damage. Actions te to provide full prostorm and for extere. Moderate wind on exists. Landform protect shoreline du Actions taken to pro I for full protection a	cracking, sp. Structure ac storm with life staken to rei tection from nding life of or wave dam may not be s uring a major ovide addition and extended Structur MA-DCR	alling, dequate ttle to inforce major age to sufficient coastal define 1/1 4/5	Rating Action Descripti	Low Prior Future Prior Inshore potential	roject Considerat Structures Preser for Significant Int y 082-072-0 y 082-072-0 082-072-0	nt with Limited frastructure Damage

Structure Assessment Form

Town: Winthrop

Structure ID: 082-073-000-048-100

ty Owner:		Location:			Date:	
	- · · · · · · · · · · · · · · · · · · ·	Seawall Avenu	ie			6/13/200
ned Structure Owne	r:	Based On Com	ment:		<u> </u>	
					· · · · · · · · · · · · · · · · · · ·	
Name:		Earliest Structi	ure Record•	Fo	timated Reconstructi	on/Renair Cost
1A-DCR		1922	are record.	Γ	Estimated Reconstruction/Repair Cos \$14,923.0	
: Top Elevation	: FIRM Map Zone:	FIRM Map Elevati	on:			
95	V2	3	21	THE TOTAL		
t Feet NAVD 88		Feet NGV	/D			
у Туре:	Primary Material:	Primary Height:				
ment	Stone	10 to 15 Feet				. 4
lary Type:	Secondary Material:	Secondary Height	-	200		
				1. 54.70		
re Summary :	es that average 3 feet by 2					
proble to land adequ coasta to pre-	ure observed to exhibit very ms, superficial in nature. M Iform is present. Structure ate to provide protection fro al storm with no damage. A vent / limit future deteriorati structure.	linor erosion e / landform om a major Actions taken	Priority Rating Action Descriptio	n Inshore Struc	ct Consideration etures Present with Li Significant Infrastructi	
ure Images: 3-000-048-100-PHO		ucture Documen		Winthrop Parkway	082-073-000-048-	100-DCR1A
ure Images: 3-000-048-100-PHC 3-000-048-100-PHC	01A.jpg MA	-DCR 1/1	10/1926	Winthrop Parkway Winthrop Parkway	082-073-000-048- 082-073-000-048-	

Structure Assessment Form

Town: Winthrop

Structure ID: 082-075-000-011-100

Presumed Structure Owner: Based On Comment: State Downer Name: Earliest Structure Record: Estimated Reconstruction/Repair Cost: 1955 \$647,559.00	Property Owner:		Locatio	n:		Date:
Structure Images: Structure Documents: Earliest Structure Record: I 955	State		Short Bea	ach	****	6/12/2007
Owner Name: Carliest Structure Record: Estimated Reconstruction/Repair Cost: MA-DCR 1955 Structure Record: Stord, 7,559,00	Presumed Structure	e Owner:	Based On	Comment:		ę
MA-DCR 1955 \$647,559.00	State					The state of the s
MA-DCR 1955 \$647,559.00			J			
Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation: 465 Feet Feet NAVD 88 Feet Navior Feet Na	The state of the s			tructure Record:	Es	
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Structure Summary: Coastal Beach Savall Concrete Secondary Height: Coastal Beach Sand Secondary Height: Coastal Beach Secondary Height: Coastal Beac	I'M DEK		1333		į	\$047,559.00
Feet Feet NAVD 88 Feet NGVD Primary Type: Primary Material: Primary Height: Secondary Type: Secondary Material: Secondary Height: Scootal Beach Structure Summary : The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Immediate / Highest Priority V Rating Immediate / Highest Priority Action Consider For Immediate Action Due to Public Safety and Welfare Issues Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with liftle to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to prioride addition material for full protection and extended life. Structure Images: Structure Images: Structure Images: Structure Documents: WA-DCR (6/27/1960) Revere Beach and (082-075-000-011-100-PHO16.jpg MA-DCR (9/27/1960) Revere Beach and (082-075-000-011-100-DCR1A) Revere Beach and (082-075-000-011-100-DCR1B) Winthrop Parkway - (082-075-000-011-100-DCR1B) Preliminary (082-075-000-011-100-DCR1C)	Length: Top El	evation: FIRM Map Zo	one: FIRM Map El	levation:		
Primary Type: Primary Material: Primary Height: 5 to 10 Feet	465		V2	18		
Bulkhead/ Seawall Secondary Type: Secondary Material: Secondary Height: Sand Structure Summary: The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Immediate / Highest Priority Consider For Immediate Action Due to Public Safety and Welfare Issues Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undemining, and/or socur. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Images: Structure Documents: 82-075-000-011-100-PHO1A.jpg MA-DCR [6/27/1960 Revere Beach and 082-075-000-011-100-DCR1A MA-DCR 9/14/1955 Preliminary 082-075-000-011-100-DCR1B Preliminary 082-075-000-011-100-DCR1B	Feet Feet N	AVD 88	Feet	t NGVD		
Secondary Type: Secondary Material: Secondary Height: Sand Structure Summary: The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Priority Rating Immediate / Highest Priority Level of Action Moderate Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or sour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Documents: B2-075-000-011-100-PHO1A.jpg MA-DCR 6/27/1960 Revere Beach and 082-075-000-011-100-DCR1A MA-DCR 9/14/1955 Preliminary 082-075-000-011-100-DCR1B	Primary Type:	Primary Material:	Primary Heig	iht:		
Coastal Beach Structure Summary: The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Immediate / Highest Priority Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Images: Structure Documents: Wa-DCR [6/27/1960 Revere Beach and 082-075-000-011-100-DCR1A Winthrop Parkway - 082-075-000-011-100-DCR1B Wa-DCR 9/14/1955 Preliminary 082-075-000-011-1100-DCR1C	Bulkhead/ Seawall				STATE OF THE PARTY	
Coastal Beach Structure Summary: The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Immediate / Highest Priority Level of Action Description Structure is sound but may exhibit minor deterioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure to provide full protection from major coastal storm and for extending life of structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Images: Structure Documents: Wa-DCR [6/27/1960 Revere Beach and 082-075-000-011-100-DCR1A Winthrop Parkway - 082-075-000-011-100-DCR1B Wa-DCR 9/14/1955 Preliminary 082-075-000-011-1100-DCR1C	Secondary Type:	Secondary Material:	Secondary H	eight:	学生 为他	
The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Level of Action Description Structure is sound but may exhibit minor delerioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Images: Structure Documents: Structure Pocuments: Structure Images: Structure Documents: MA-DCR 6/627/1960 Revere Beach and 082-075-000-011-100-PHO18.jpg MA-DCR 9/14/1955 Preliminary 082-075-000-011-100-DCR1C	Coastal Beach				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
The cast in place seawall is 2.5 feet wide by 3 feet high. There is no visible scour. There are cracks and spalling at the toe. The only road into Winthrop and houses are behind the wall. There is a beach in front of the wall. Condition C Rating Fair Rating Level of Action Description Structure is sound but may exhibit minor delerioration, section loss, cracking, spalling, undermining, and/or scour. Structure adequate to withstand major coastal storm with little to moderate damage. Actions taken to reinforce structure. Moderate wind or wave damage to landform exists. Landform may not be sufficient to fully protect shoreline during a major coastal storm. Actions taken to provide addition material for full protection and extended life. Structure Images: Structure Images: Structure Documents: Structure Pocuments: Structure Images: Structure Documents: MA-DCR 6/627/1960 Revere Beach and 082-075-000-011-100-PHO18.jpg MA-DCR 9/14/1955 Preliminary 082-075-000-011-100-DCR1C	Structure Summan		-			
082-075-000-011-100-PHO1A.jpg MA-DCR 6/27/1960 Revere Beach and 082-075-000-011-100-DCR1A 082-075-000-011-100-PHO1B.jpg MA-DCR 4/5/1956 Winthrop Parkway - 082-075-000-011-100-DCR1B 082-075-000-011-100-PHO1C.jpg MA-DCR 9/14/1955 Preliminary 082-075-000-011-100-DCR1C	Condition Rating Level of Action Description	Fair Moderate Structure is sound but may edeterioration, section loss, crundermining, and/or scour. Stowithstand major coastal st moderate damage. Actions to structure to provide full protecoastal storm and for extendistructure. Moderate wind or landform exists. Landform moto fully protect shoreline during storm. Actions taken to provide	acking, spalling, structure adequate orm with little to aken to reinforce ction from major ing life of wave damage to ay not be sufficient ng a major coastal de addition	Rating Action	Immediate / H Consider For Safety and W Critical Inshor Potential for I High Density of structure m stabilization a loss of proper	Immediate Action Due to Public relfare Issues re Structures Present with infrastructure Damage and/or Residential Dwellings Condition is warrant emergency is failure may result in potential ty and/or life. (>10 dwellings
	082-075-000-011-10 082-075-000-011-10	00-PHO1A.jpg 00-PHO1B.jpg	MA-DCR MA-DCR	6/27/1960 4/5/1956	Winthrop Parkway -	082-075-000-011-100-DCR1B
	,52-0; 0-000-0 i - i(MA-DCR	5/25/1955	Winthrop Shore	082-075-000-011-100-DCR1C

Section III - Winthrop

Part C

Structure Photographs



SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

Structure Condition Photo at Time of Survey Structure Location **,**-_ _ _ _ _ DIGITAL IMAGE DIGITAL IMAGE JIGITAL IMAGE DIGITAL IMAGE TItle June 2007 Date Municipality Consulting
Engineering
Bourne
Consulting
Engineering
Engineering
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Engineering
Consulting
Engineering Bourne Consulting Engineering Bourne Consulting Engineering Bourne Consulting Engineering Bourne Consulting Engineering Bourne Consulting Engineering Entity Contract/ Drawing Number 082-001-000-007-100-PHO1A.Jpg 082-013-000-002-100-PHO1C.jpg 082-008-000-026-100-PHO1B.Jpg 082-008-000-026-200-PHO2A.jpg 082-013-000-002-100-PHO1A.Jpg 082-013-000-002-100-PHO1B.jpg 082-014-000-042-100-PHO1A.Jpg 082-008-000-026-100-PHO1A.jpg 082-008-000-026-200-PHO2B.Jpg 082-014-000-044-100-PHO1A.jpg 082-015-000-007-100-PHO1A.Jpg 082-016-000-005-100-PHO1A.Jpg 082-017-000-007-100-PHO1A.Jpg 082-016-000-031-100-PHO1A.jpg 082-016-000-055-100 082-016-000-055-100-PHO1A.Jpg 082-017-000-007-200-PHO2A.jpg 082-017-000-007-300-PHO3A.jpg 082-018-000-003-100-PHO1A.Jpg 082-019-000-117-100-PHO1A.Jpg 082-019-000-117-100-PHO1B.jpg 082-019-000-117-100-PHO1C.jpg 082-020-000-024-100 082-020-000-024-100-PHO1A.Jpg Document No 082-001-000-007-100 082-008-000-026-100 082-008-000-026-100 082-015-000-007-100 082-008-000-026-200 082-008-000-026-200 082-013-000-002-100 082-013-000-002-100 082-013-000-002-100 082-014-000-042-100 082-014-000-044-100 082-016-000-005-100 082-016-000-031-100 082-017-000-007-100 082-017-000-007-200 082-017-000-007-300 082-018-000-003-100 082-019-000-117-100 082-019-000-117-100 082-019-000-117-100 **BCE Structure No**

TOWN: WINTHROP
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: OCTOBER 2007

BCE Structure No	Воситеп No	Contract/ Drawing Number	Entity	Municipality	Date	TIES	Sheets	ts	Description
082-020-000-038-100	082-020-000-038-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-021-000-106-100	082-021-000-106-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-026-000-052-100	082-026-000-052-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
082-026-000-052-100	082-026-000-052-100-PHO1B.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-026-000-052-100	082-026-000-052-100-PHO1C.jpg		Bourne Consulting Englneering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-027-000-010-100	082-027-000-010-100-PHO1A.Jpg		Boume Consulting Englneering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1B.Jpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1C.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	٢	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1D.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1E.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-005-100	082-040-000-005-100-PHO1F.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-040-000-006-100	082-040-000-006-100-PHO1A.Jpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-042-000-001-100	082-042-000-001-100-PHO1A.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-051-000-026-100	082-051-000-026-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-051-000-026-100	082-051-000-026-100-PHO1B.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-051-000-026-100	082-051-000-026-100-PHO1C.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	+-	Structure Location	Structure Condition Photo at Time of Survey
082-052-000-001-100	082-052-000-001-100-PHO1A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
082-052-000-001-100	082-052-000-001-100-PHO1B.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-060-000-005-100	082-060-000-005-100-PHO1A.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
082-061-000-020-100	082-061-000-020-100-PHO1A.jpg		Bourne Consulting Englneering		June 2007	DIGITAL IMAGE		Structure Location	Structure Condition Photo at Time of Survey
082-063-000-072-100	082-063-000-072-100-PHO1A.Jpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: OCTOBER 2007

TOWN: WINTHROP

Structure Condition Photo at Time of Survey Description Structure Location Location Sheets _ DIGITAL IMAGE Title June 2007 Date Municipality Consulting Engineering Bourne Consulting Engineering E Contract/ Drawing Number 082-073-000-048-100-PHO1A.Jpg 082-075-000-011-100-PHO1A.jpg 082-063-000-072-100-PHO1B.Jpg 082-063-000-072-100-PHO1C.jpg 082-063-000-072-200-PHO2A.Jpg 082-063-000-072-200-PHO2B.Jpg 082-063-000-072-200-PHO2C.jpg 082-068-000-080-100-PHO1A.Jpg 082-072-000-052-100-PHO1A.Jpg 082-073-000-048-100 082-073-000-048-100-PHO1B.jpg **Document No** 082-063-000-072-100 082-063-000-072-100 082-063-000-072-200 082-063-000-072-100 082-063-000-072-200 082-068-000-080-100 082-072-000-052-100 082-073-000-048-100 082-075-000-011-100 **BCE Structure No**

Structure Condition Photo at Time of Survey

Structure Condition Photo at 71me of Survey

Structure Location Structure Location

DIGITAL IMAGE DIGITAL IMAGE

June 2007 June 2007

082-075-000-011-100-PHO1C.jpg

082-075-000-011-100

082-075-000-011-100 082-075-000-011-100-PHO1B.Jpg







082-008-000-026-100-PHO1A



082-008-000-026-100-PHO1B



082-008-000-026-200-PHO2A



082-008-000-026-200-PHO2B



082-013-000-002-100-PHO1A



082-013-000-002-100-PHO1B



082-013-000-002-100-PHO1C



082-014-000-042-100-PHO1A



082-014-000-044-100-PHO1A



082-015-000-007-100-PHO1A



082-016-000-005-100-PHO1A



082-016-000-031-100-PHO1A



082-016-000-055-100-PHO1A



082-017-000-007-100-PHO1A



082-017-000-007-200-PHO2A



082-017-000-007-300-PHO3A

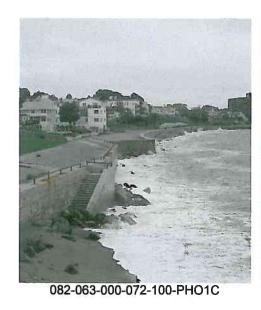


082-018-000-003-100-PHO1A











082-063-000-072-200-PHO2A



082-063-000-072-200-PHO2B



082-063-000-072-200-PHO2C



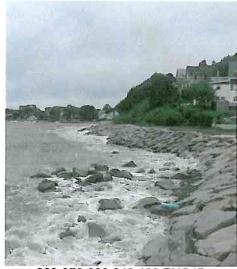
082-068-000-080-100-PHO1A



082-072-000-052-100-PHO1A



082-073-000-048-100-PHO1A

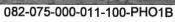


082-073-000-048-100-PHO1B



082-075-000-011-100-PHO1A







082-075-000-011-100-PHO1C

Section III - Winthrop

Part D

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE – PERMIT DOCUMENT LIST

• Copies of Permit Documents



No Town Documents for the Town of Winthrop

TOWN: WINTHROP SOURCE: Town of Winthrop LOCATION: TOWN DATE OF RESEARCH: SEPTEMBER 2007

Description	
Location	
Sheets	
THIG	
Date	
Municipality	
Entity	
Contract/ Drawing Number	
Document No	
BCE Structure No	

Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Dateription

SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

TOWN: WINTHROP

Description Precast Concrete Seawall awall Construction awall Repairs Stone Mound Stone Mound Revetment Revetment Between Locust Street and Hawhome Ave and at Sea Foam Avenue Winthrop Shore Drive between Beach Road and Charles Street Winthrop Shore Drive Beach Road to Charles Street Winthrop Shore Drive Mermald Ave to Pearl Ave Grand View Avenue - Vicinity of Undine Avenue Between Hawthome Avenue and Locust Street Setween Neptune Avenue and Trident Avenue Location Between Myrtle Ave and Moore Street Trident Avenue to Sesfoam Avenue Coral Avenue to Beach Road Winthrop Shore Drive Winthrap Shore Drive Grand View Avenue Grand View Avenue Grand View Avenue Grand View Avenue Shirley Street Plco Beach - _ -, _ 6 'n ¥ ų, 4 _ n Grand Vlew Avenue - Vicinity of Undine Avenue -Winthrop Prepared for the DPW of MA - Division Proposed Stone Mound - Grand View Avenue - 81 Winthney - Prepared for the DPW of MA - Division of Waterways
Proposed Shore Protection - Reconstruction of Revetment - Grand View Avenue - Winthney - Prepared for the DPW of MA - Division of Wirthrop Shora Reservation - Location of Proposed Permeable Groins Wirthrop Beach, MA Survey After Construction of Street to Beach Street and Construction of New Stone Groin Between Tweksbury Street and Charles Street
Winthrop Shore Reservation - Construction Plans Winthrop Shore Reservation - Constructing Stone Groin Repairs to Existing Stone Groins and Sand Winthrop Shore Reservation - Constructing Stone Winthrop Shore Reservation - Repairs to Seawall Proposed Seawall Construction - Yirrell Beach - July 1960 Wilthrop - Prepared for the DPW of MA - Division of Waterways - Protection - Precast Concrete November 1999 Seawall - Ploo Beach - Winthrop - DPW of Massachusetts - Division of Waterways - Massachusetts - Division of Waterways - Wilthrop Sylver Reservation - Plan of Proposed 7/21/1838 Winthrop Shora Reservation - Constructing Ston Groin - Repairs to Existing Stone Groins and Sand Filling - Between Myrile Ave and Moore Winthrop Shore Reservation - Proposed Repairs to Seawall and Roadway Along Winthrop Beach Wirthrop Shore Reservation - Proposed Repairs to Seawall and Sidewalk Along Winthrop Beach Winthrop Shore Reservation - Proposed Repairs to Seawall and Roadway Along Winthrop Beach Groin - Repairs to Existing Stone Groins and Sand Filing - Between Myrtle and Moore Street Preliminary Segions Winthrop Beach New Granite Coping on Existing Seawall - Irwin Wirthrop Shore Reservation - Repairs to Seawa Stoins Winthrop Shore Reservation - Final Survey of Winthrop Shore Reservation - Winthrop Beach Repairs to Seawall Winthrop Shore Drive - Addition to Existing Proposed Shore Protection - Reconstruction o Revetment - Grand View Avenue - Winthrop -Prepared for the DPW of MA - Division of Concrete Wall
Winthrop Shore Reservation - Beach Filling
Winthrop Shore Reservation - Final Survey of Proposed Stone Mound - Grand View Avenue Wirthing - Propered for the DPW of MA -Division of Waterways Proposed Shore Protection - Seawall Repair Jetty at Circle Near Beach Street Winthrop Beach September 1958 September 1858 12/21/1854 1/24/1947 1/19/1944 11/30/1943 11/15/1948 11/10/1953 June 1981 April 1965 2/10/1953 2/28/1955 5/25/1955 10/15/1941 3/28/1946 12/21/54 9/14/1955 9/14/1955 2/13/1900 12/7/1944 4/30/1954 5/25/1955 Date ¥ April Wirdhrop Winthrop Winlhrop Winthrop Wirthrop Winthrop Winthrop Winthrop Winthrop Winthrop MA-DCR 33141 CON 33141 CAN 35-F-15-1 32009-CID 808 24631 33656 27222 27465 28212 33656 1953 26810 2300 2465 1953 1465 2133 33387 26382 2933 Š 2731 26951 082-019-000-117-100-DCR1E 082-026-000-052-100-DCR1J 082-026-000-052-100-DCR1H 082-008-000-028-100-DCR1A 082-008-000-026-100-DCR1B 082-008-000-026-100-DCR1C 082-014-000-042-100-DCR1A 082-019-000-117-100-DCR1H 082-019-000-117-100-DCR1G 062-019-000-117-100-DCR1F 082-019-000-117-100-DCR1C 082-026-000-052-100-DCR1M 082-026-000-052-100-DCR1L 082-026-000-052-100-DCR1K 082-008-000-026-200-DCR2A 082-008-000-026-200-DCR2B 082-017-000-007-100-DCR1A 082-019-000-117-100-DCR1D 082-019-000-117-100-DCR1B 082-019-000-117-100-DCR1A 082-026-000-052-100-DCR1S 082-026-000-052-100-DCR1Q 082-026-000-052-100-DCR1O 082-026-000-052-100-DCR1N 082-026-000-052-100-DCR11 082-026-000-052-100-DCR1R 082-026-000-052-100-DCR1P Document No 082-008-000-026-100 082-008-000-026-100 082-008-000-026-100 082-008-000-028-200 082-008-000-026-200 082-014-000-042-100 082-017-000-007-100 082-019-000-117-100 082-019-000-117-100 082-019-000-117-100 082-019-000-117-100 082-026-000-052-100 082-026-000-052-100 082-028-000-052-100 082-026-000-052-100 082-019-000-117-100 082-019-000-117-100 082-019-000-117-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 082-026-000-052-100 BCE Structure No

TOWN: WINTHROP SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

	П																															
Description							Site Plan																									Broakwater
Location	Winthrap Share Drive	Near Beacon Street Circle, Iwin Street to Beacon Street; Between Tewkebury Street and Charles Street			Locus Street to Beach Road	Winthrop Parkway	Winthrop Parkway		Winthrop Beach	Sturgis Street	Ocean Avenue to Underhill Straet	Ocean Avenue to Irwin Street	Tewkabury Street to Beacon Street	Winthrop Beach - Moore Street to Tewksbury Street	Along Winthrop Beach Between Neptune Avenue and Trident Avenue		Winthrop Beach - Between Trident Avenue and Seafoam Avenue		Winthrop Shore Drive - Pond Street to Harbor View Avenue	Winthrop Shore Drive - Wave Way to Charles Street	Winthrop Shore Drive - Wave Way to Charles Street	Winthrop Shore Drive - Beach Road to Charles Street	Myrtle Avenue to Moore Street	Winthrop Shora Drive Winthrop Shora Driva	Near Beacon Street Circle, Between Irwin Street and Beacon Street; Between Tewksbury Street and Charles Street			Locust Street to Beach Road	Winthrop Parkway	Winthrop Beach	Opposite Hawahtome Street, Pearl Avenue and Sturgle Street	Winthrop Shore Drive - Hawthome Avenue to Charles Street
Sheets	-	4	4	-	-	2	-	5	2	-	1	-	-	2	1	1	-	1	4	-	1	1	3		4	4	-	-	2	5		-
THIG	Winthrop Shore Reservation Sand Filling	Winthrop Shore Reservation Reconstruction of Stone Groin at Circle and New Grantle Coping on Existing Seawall and Construction of New Stone Groin	Winthrop Shore Reservation Proposed Seawall Repairs	Winthrop Shore Reservation Reinforced Concrete Cap Wall	Proposed Cap Wall and Fence Repairs at Winthrop Shore Drive	Storm Damage Repairs to Seawall - Winthrop Parkway	Winthrop Parkway and Revera Sandy Short Beach Site Plan	Winhrop Shore Reservation - Constructinog Plens Winthrop Beach	Winthrop Shore Reservation - Construction Plans	Winthrop Shore Reservation - Construction Plan for Seawall	Winthrop Shore Protection - Plan of Repairs to Shore Protection and Roadway	Winthrop Share Reservation - Repairs to Share Protection	Winthrop Shore Reservation - Proposed Stone Ballast Shore Protection from End of Granite Faced Seawall	Winthmp Shore Reservation - Proposed Repairs to Seawall and Roadway	Winthrop Shore Reservation - Proposed Repairs to Seawall and Roadway	Winthrop Shore Reservation - Proposed Repairs to Seawall and Roadway Along Winthrop Beach	Winthrop Shore Reservation - Repairs to Seawall and Sidewalk	Winthrop Shore Reservation - Winthrop Beach Repairs to Seawall	Winthrop Shore Reservation - Beach Filling	Winthrop Shore Reservation - Preliminary Survay of Dredging Area	Winthrop Beach Reservation - Survey After Dredging	Winthrop Shore Reservation - Final Survey of Beach	Winthrop Shore Reservation - Constructing Stone Groin, Repairs to Existin Stone Groins, and Sand Filling	Preliminary Sections Winthmp Beach Winthmp Shore reservation Sand Filling	Wirthrop Shore Reservation - Reconstruction of Stone Groin and New Granite Coping on Existing Seawall and Construction of New Stone Groin	Winthrop Shore Reservation Proposed Seawall Repeirs	Winthrop Shore Reservation Reinforced Concrete Cap Wall	Proposed Cap wall and Fence Repairs at Winthrop Shore Drive	Storm Damage Repairs to Seawaii - Winthrop Parkway	Winthrop Shore Reservation - Constunction Plans	Winthrop Shore Reservation - Details of Seawail Bastlons	Proposed Stone Breakwater - Winthrop - Authorized Under Chapter 256 Acts of 1932 - Prepared for the DPW of Massachusetts -
Date	1/12/58	7/12/1858	6/15/60	11/12/63	June 1964	August 1978	6/3/1984	6/15/1899	2/13/1900	3/21/1921	3/16/1931	3/15/1834	6/20/1837	3/24/38	6/28/39	10/15/1941	11/30/1943	11/15/1948	4/30/1854	August 1854	10/20/1854	12/21/1954	5/25/1955	9/14/1955	8561/21/1	6/15/1960	11/12/83	June 1964	August 1978	6/15/1899	8/18/1899	May 1933
Municipality	Winthrop	Winthrop	Winthrap	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrop	Winthrap	Winthrap	Winthrop	Winthrop	Winthrop
Entlty	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR	MA-DCR
Contract/ Drawing Number	34514	35834	39157X	41660	42368	E78-85PE	ACC - 50873	2087	2731	13336	19827	22015	23887	24508	25227	26382	26810	28212	32471	32813 C-856		33141 CAS	33658	34514	35834	39157X	41860	42368	E78-65PE	2097	2224	381
Document No	082-026-000-052-100-DCR1G		082-026-000-052-100-DCR1E	082-026-000-052-100-DCR1D	082-026-000-052-100-DCR1C	082-026-000-052-100-DCR1B	082-026-000-052-100-DCR1A A	082-026-000-052-100-DCR1T	082-040-000-005-100-DCR1V	082-040-000-005-100-DCR1U	082-040-000-005-100-DCR1T	082-040-000-005-100-DCR1S	082-040-000-005-100-DCR1R	062-040-000-005-100-DCR1Q	082-040-000-005-100-DCR1P	082-040-000-005-100-DCR1O	082-040-000-005-100-DCR1N	082-040-000-005-100-DCR1M	082-040-000-005-100-DCR1L	082-040-000-005-100-DCR1K 33	082-040-000-005-100-DCR1J	082-040-000-005-100-DCR11	082-040-000-005-100-DCR1H	082-040-000-005-100-DCR1G 082-040-000-005-100-DCR1E	082-040-000-005-100-DCR1F	082-040-000-005-100-DCR1D	082-040-000-005-100-DCR1C	082-040-000-005-100-DCR1B	082-040-000-005-100-DCR1A	082-040-000-005-100-DCR1X	082-040-000-005-100-DCR1W	082-040-000-006-100-DCR1A
BCE Structure No	082-026-000-052-100	082-028-000-052-100	082-026-000-052-100	082-026-000-052-100	082-026-000-052-100	082-026-000-052-100	082-026-000-052-100	082-026-000-052-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100 082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-005-100	082-040-000-008-100

Grading and Drainage Shows Riprap Around Outle Grading and Drainage Shows Riprap Around Outle Bank Stabilization, Dikes, Riprap Around Bridge Benk Stabilization, Dikes, Riprap Around Bridge Description Construction Plans Stone Breakwate **Breakwater** Drive - Pond Street to Harbor View Avenue Winthrop Shore Drive - Perkins Street to Pearl Avenue Winthrop Shore Drive - Beach Road to Charles Street Winthrop Beach - Trident Avenue to Seafoam Avenue Location Hawthorne Avenue to Coral Avenue Hawthorne Street to Wave Way Myrtle Avenue to Moore Street Myrlle Avenue to Moore Street Myrtle Avenue to Moore Street Coral Avenue to Wave Way Groves Avenue/Shore Drive Vinthrop Shore Drive Winthrop Share Drive Winthrop Highlands Grover's Avenue Belle Isle Marsh Belle Isle Marsh Belle Isle Marsh Baile Isle Marsh Winthrop Beach Grover's Avenue Grover's Avenue Winthrop Beach 1 Coral Avenue Grover's Cliff Grover's Cliff 4 4 6 Ψ-7 4 N -7 6 2 Ψ-S Preliminary Sections - Winthrop Beach
Winthrop Shore Reservation - Storm Damage
Repair at Grover's Cliff
Winthrop Shore Reservation - Proposed Storm
Damage Repairs and Other Improvements
Proposed Seavel's Repairs and Distinges
Improvements Grovers Cliff and Winthrop Shore Winthrop - Authorized Under Chapter 286 Acts of 1934 - Prepared for the DPW of Massachusetts -Winthrop - Authorized Under Chapter 286 Acts of 1985 - Prepared for the DPW of Massachusetts - Division of Waterwests - Winthrop Shore Reservation - Location of Winthrop Shore Reservation - Location of Winthrop Shore Resrvation - Constructing Stone Groin Repairs to Existing Stone Groins and Sand Seewali Winthrop Shore Reservation - Construction Details for Extension of Seawali Winthrop Shore Reservation - Plan of Repairs to Shore Protection August 31, 1984 Belle Isle Marsh Reservation - Park Development August 31, 1984 Belle lele Marsh Reservation - Park Development Winthrop Shore Reservation - Construction Plans Wirthrop Shore Reservation - Plan and Details of Winthrop Shore Reservation - Plan and Details of Winthrop Shore Reservation - Repairs to Seawall Wirthrop Shore Reservation - Construction Plans Belle Isle Marsh Reservation - Park Development Winthrop Shore Reservation - Repairs to Seawall Winthrop Shore Reservation - Proposed Repairs to Seawl and Roadway Along Winthrop Beach Winthrop Shore Reservation - Proposed Repairs to Seawall and Sidewalk Winthrop Shore Reservation - Beach Filling Winthrop Shore Reservation - Constructing Ston Groin, Repairs to Existing Stone Groins, and Filling Winthrop Shore Reservation - Repairs to Stone Proposed Permeable Groins Winthrop Shore Reservation - Construction of Winthrop Beach - Survey After Construction of Groins Winthrop Shore Reservation - Final Survey of Grains Winthrap Share Reservetion - Construction of Groln - Repairs to Existing Stone Groins and Sand Filling Vinthrop Shore Reservation - Winthrop Beach selle Isle Marsh Reservation - Park Develop Division of Waterways Proposed Extension to Stone Breakwater Repairs to Seawall Sand FIII February 26, 1980 Delle IS. February 26, 1980 October 1972 12/21/1954 2/10/1953 10/21/1853 2/13/1900 August 1972 June 1935 1/19/1944 2/1/1855 9/12/1909 8/27/1931 11/30/1943 11/15/1948 1934 7/12/1851 2/28/1955 5/25/1955 8/25/1914 10/15/1941 9/18/1950 9/14/1955 April 1962 11/26/1979 6/15/1899 1/8/1909 8/1/1945 5/25/1955 Date Ę Winthrop Winthrap Winthrop Winthrop Wirdhrop Winthrop Winthrop Winthrop Winthrop Wirthrop Winthrop Winthrop Winthrop Winthrop Winthrop Winthrop Winthrop Winthrop MA-DCR 35-F-15-1 31983-CD 33141 CON P-51184X P-51184X E80-16PE 29707 082-051-000-026-100-DCR1D 33223 082-051-000-026-100-DCR1E 33222 33387 33658 47875 64784 64784 20309 26810 28212 29414 33656 40382 41812 413 2731 7430 10357 26382 7301 27051 438 808 2087 082-051-000-026-100-DCR1G 082-051-000-026-100-DCR1F 082-040-000-006-100-DCR1B 082-040-000-008-100-DCR1C 082-051-000-026-100-DCR11 082-051-000-026-100-DCR1H 082-051-000-026-100-DCR1C 082-051-000-026-100-DCR1B 082-051-000-026-100-DCR1A 082-060-000-005-100-DCR1A 082-060-000-005-100-DCR1B 082-061-000-020-100-DCR1A 082-061-000-020-100-DCR1B 082-088-000-080-100-DCR10 082-068-000-080-100-DCR1M 082-068-000-080-100-DCR1D 082-051-000-026-100-DCR1J 082-068-000-080-100-DCR1P 082-088-000-080-100-DCR1N 082-068-000-080-100-DCR1L 082-088-000-080-100-DCR1H 082-068-000-080-100-DCR1G 082-068-000-080-100-DCR1E 082-068-000-080-100-DCR1C 082-068-000-080-100-DCR1B 082-088-000-080-100-DCR1A 082-068-000-080-100-DCR1Q 082-068-000-080-100-DCR1K 082-068-000-080-100-DCR1J 082-068-000-080-100-DCR1I 082-068-000-080-100-DCR1F Document No 082-051-000-026-100 082-051-000-028-100 082-051-000-026-100 082-051-000-026-100 082-051-000-026-100 082-040-000-006-100 082-040-000-006-100 082-051-000-026-100 082-051-000-026-100 082-051-000-026-100 082-080-000-005-100 082-060-000-005-100 082-061-000-020-100 082-061-000-020-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-088-000-080-100 082-068-000-080-100 082-068-000-080-100 082-068-000-080-100 082-088-000-080-100 **BCE Structure No**

TOWN: WINTHROP SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

Description
Dei
Location
Sheets
Title
Date
Municipality
Entity
Drawing
Document No
BCE Structure No
082-072-000-052-100 082-072-000-052-100-DCR1C 13189 MA-DCR Winthrop 10/21/1920 Winthrop Shore Reservation Plans 6 Winthrop Beach - Great Head to Winthrop Highlands

TOWN: WINTHROP SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	TMIG	Sheets	Location	Description
082-008-000-026-200	082-008-000-026-200-LIC2A	2567	DEP.	Winthrop	December 29, 1942	December 29, 1942 Plan to Accompany Petition of Town of Withinrop to Build Shore Protection in Boston Harbor	-	Boston Harbor, Grand View Ave	Bulkhead
082-017-000-007-200	082-017-000-007-200 082-017-000-007-200-LIC2A	4480	DEP	Winthrop	July 1961	Plan Accompanying Petition of Town of Winthrop Park Development to Build a Stone Groin in Boston Harbor at Pico Beach, Winthrop	-	Plœ Beach	Stone Groin
082-019-000-117-100	082-019-000-117-100 082-019-000-117-100-LIC1A	1974	DEP	Winthrop	June 21, 1938	Plan Accompanying Petition of The Metropolitan district commission to Construct a Jetty in Broad Sound Winthrop	3	Broad Sound	Jetty
082-019-000-117-100	082-019-000-117-100-LIC1B	4071	DEP	Winthrop	March 31, 1958	Proposed Groin and Reconstruction of Existing Groin in Winthrop at Winthrop Beach	2	Winthrop Beach	Groin
082-042-000-001-100	082-042-000-001-100 082-042-000-001-100-LIC1A	7415	DEP	Winthrop	September 24, 1998	In Accompanying Petition of the Town of September 24, 1998 Winthrop for Beach Improvements and Retaining Wall Replacements in Boston Harbor	ဇ	Court Road	Retaining Wall
082-051-000-026-100	082-051-000-026-100 082-051-000-026-100-LIC1A	3313	OEP	Winthrop	April 1951	Proposed Groins - Winthrop Beach - Winthrop,	-	Winthrop Beach - North of Breakwater	Groins

082-008-000-026-200 BOSTON HARBOR KEY MAP from U.S. G.S. No. 31 ST 1175 SECTION ON A-B Seale 4tt. to an in. Proposed STOPOSED SEA 3.13 WALL ROPOSED Mean High Water, GRANITE CONCRETE BLOCK APPROVED BY DEPARTMENT OF PUBLIC WORKS
DECEMBER 29,1942 PLANTO ACCOMPANY PETITION OF TOWN OF WINTHROP COMMISSIONER OF PUBLIC WORKS TO BUILD SHORE PROTECTION IN BOSTON HARBOR, WINTH Scale 40 H. to an inch. COMMISSIONERS DIRECTOR DIVISION

082-019-000-117-100

D

500ND

OFOHE

12 Existing Desiractor

WINTHOOP BEACH

APPROVED BY DEPARTMENT OF PUBLIC WORKS
JUNE 2) 1938

SEE USCEES CHART NO 337

MARBOR

BOSTON

METROPOLITAN DISTRICT COMMISSION PLAN ACCOMPANYING PETITION OF

THE

LOCATION PLAN Scale

1-17 300° FEGT

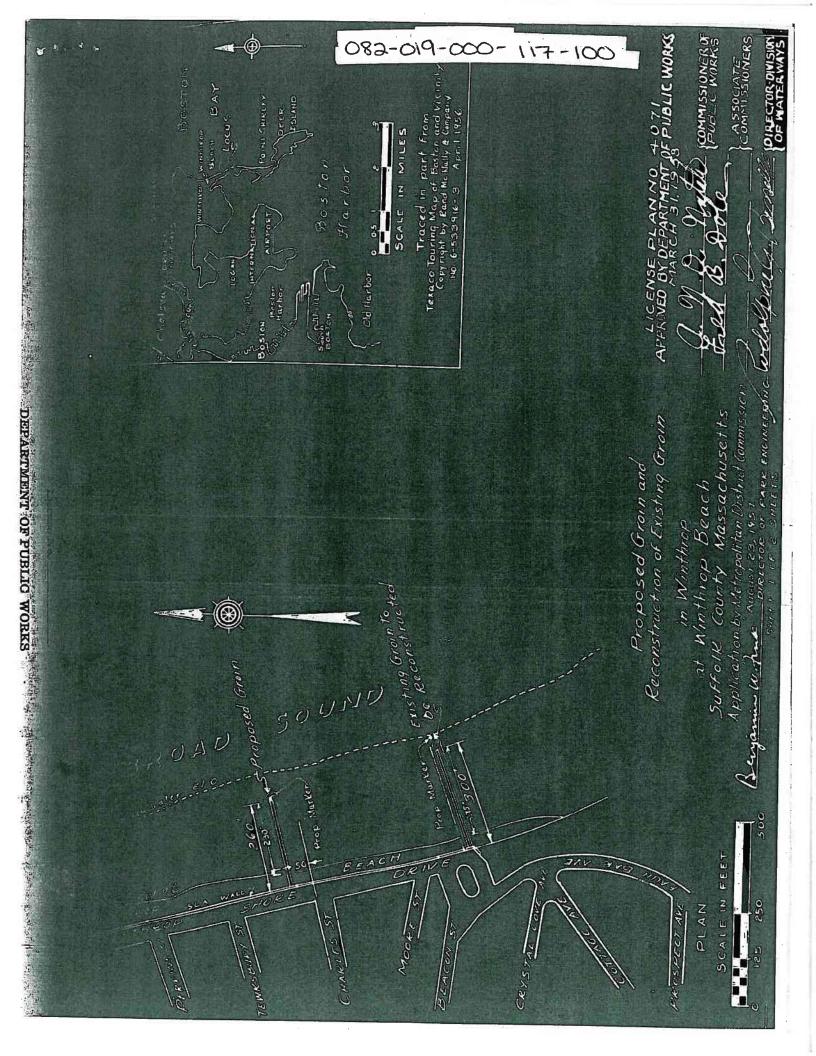
WINTHROP 1938 BROAD

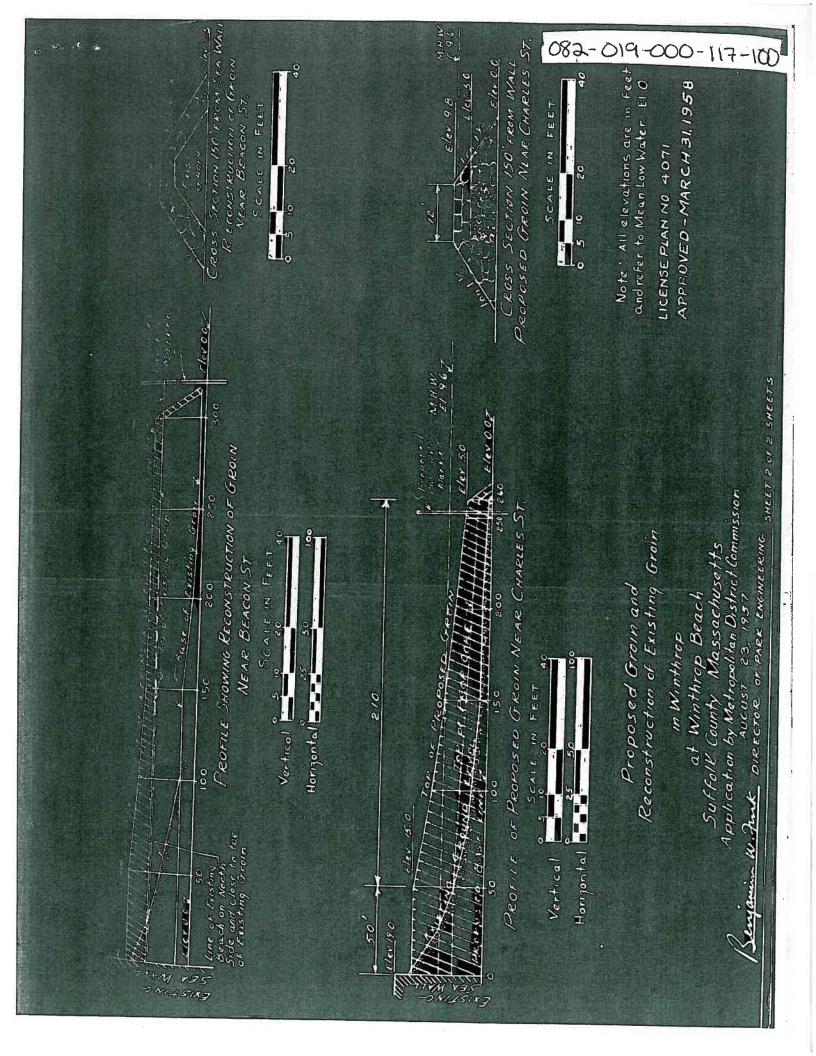
Ben 17. Davia

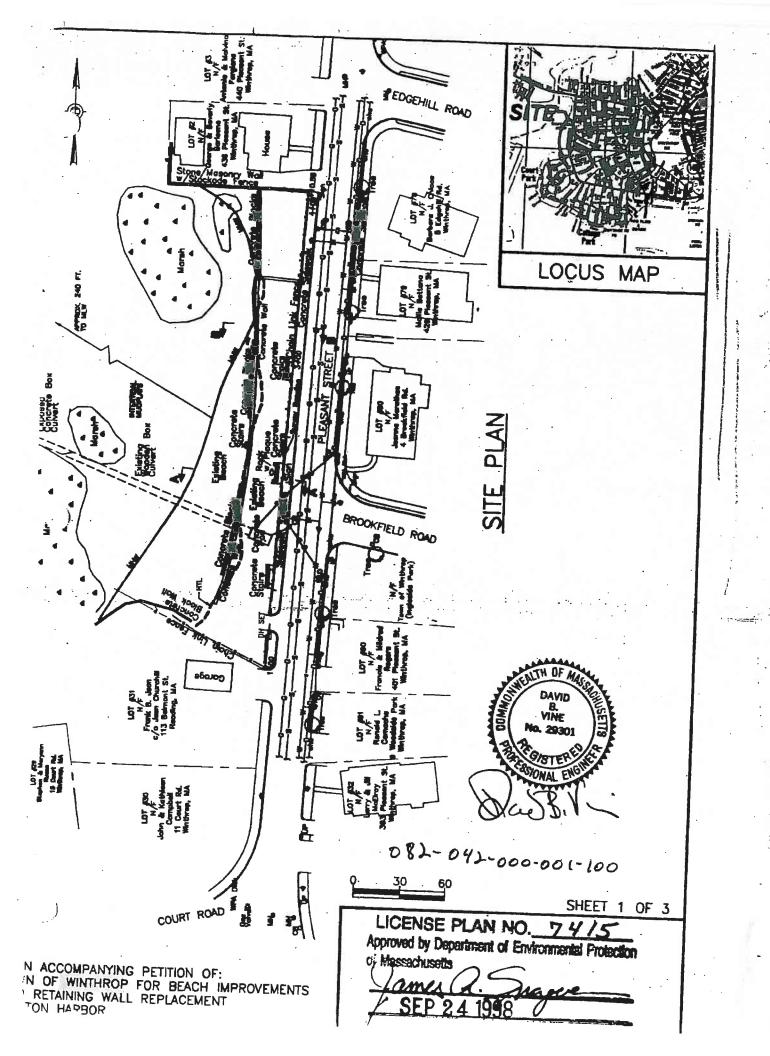
SHEET 1 OF 3 SHEETS

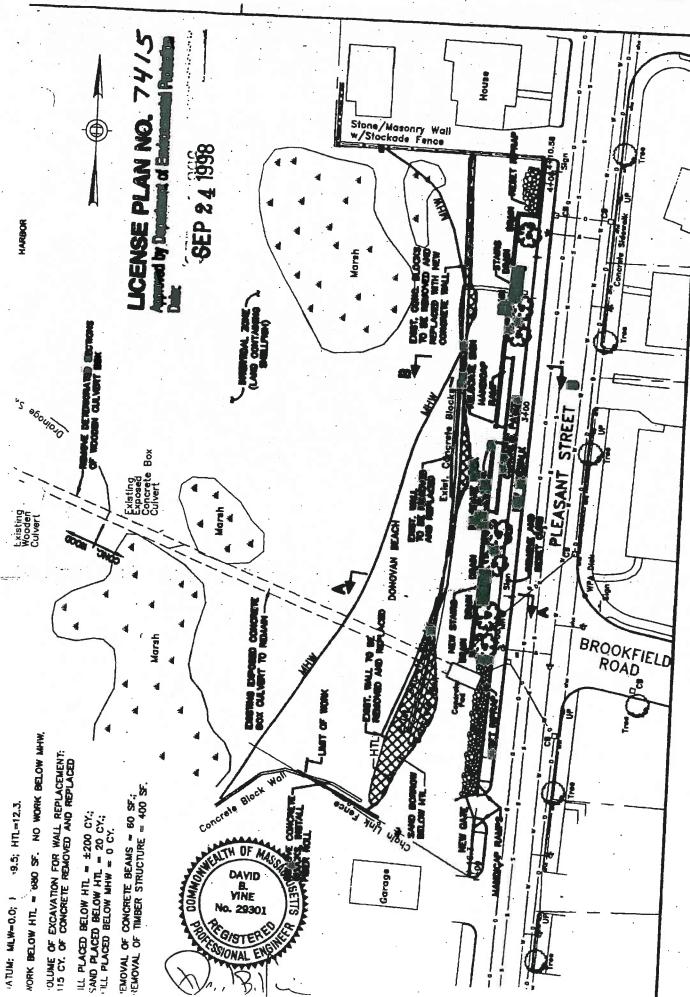
WHWELSO Broach 082-019-000-117-100 11011 00C NVJQINTHER SHORE RESERVATION TEACON NE OF TAKING WINTHROP LICENSE PLAN NO 1974 APPROVED JUNE 21, 1938 537847

	082-019-000-11-	7-100
		4.00 0
		76.05 F
	" El 00	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
	Fore MLW00	LICENSE PLAN NO 1974 APPROVED JUNE 21, 1938
	avend P.	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LL	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Beach level	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CENTER.
	EOO' FROM WALL steet 10 Note Elevations refer to UP Foreignment Fare 10. W. O.O.	
	SECTION SEO/e of	Section of feet
	CROSS	LOWGITUDINAL Housealle
	s bulls	
	Tooler	
		M L W EV 00
		2 Z

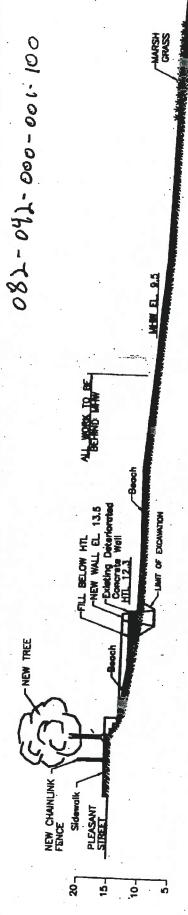




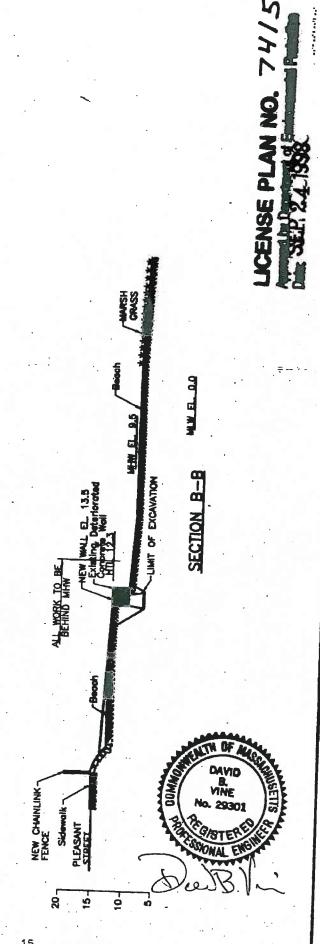




087-000-000-180



SECTION A-A



082-051-000-026=106 ROPOSED GROINS 42 22 LOCUS PLAN 1000 2000 3000 F U.S.C. & G. CHART 246 EXISTING WALL EXISTING M.H.W. 9.2 PROPOSED ENSTING M.L.W. O.O GROINS TYPICAL LONGITUDINAL SECTION . REBUILD XISTING GROIN COVER STONE 2000 TO 800 AV. 6000 LBS DINGS ARE IN FEET AND REFER YE PLANE OF M.L.W. SAND TIGHT RUN OF THE QUARRY CORE · TYPICAL CROSS-SECTION . ROPOSED GROINS INTHROP BEACH, WINTHROP PARTMENT OF PUBLIC WORKS UFFOLK COUNTY, MASS. COMMISSIONER OF ion by METROPOLITAN DISTRICT COMM

TOWN: WINTHROP SOURCE: US ACOE
LOCATION: CONCORD, MA
DATE OF RESEARCH: AUGUST 2007

		Contract							
BCE Structure No	Document No	Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
082-013-000-002-100	082-013-000-002-100-COE1A	70-225	USACE	Winthrop	July 24, 1970	Proposed Access Ramp and Facilities - Winthrop Harbor, Winthrop, Massachusetts	9	Shirley Street Near Winihrop Yacht Club	Ramp and Riprap
082-017-000-007-100	082-017-000-007-100-COE1A	80-010	USACE	Winthrop	August 1979	Proposed Shore Protection - Precast Concrete Seawall - Plco Beach, Winthrop	2	Pico Beach	Precast Concrete Seawall Above Stone Revelment
082-017-000-007-200	082-017-000-007-200-COE2A	61-179	USACE	Winthrop	April 1961	Proposed Jetty in Boston Harbor at Pico Beach, Winthrop, County of Suffolk, State of Mass	2	Pico Beach	Jetty
082-019-000-117-100	082-019-000-117-100-COE1A	51-74	USACE	Winthrop	February 20, 1951	Proposed Groins at Winthrop Beach - Winthrop, Suffolk County, Massachusetts	-	Shore Drive From Beacon Street to Beach Road	Groins
082-019-000-117-100	082-019-000-117-100-COE1B	58-118	USACE	Winthrop	August 23, 1957	Proposed Groin and Reconstruction of Existing Groin and Installation of Marker Piles in Broad Sourd at Winthrop, Suffolk County, Massachuselts	2	Winthop Shore Drive - Beach Street and Charles Street	Grains
082-019-000-117-100	082-019-000-117-100-COE1C	79-612	USACE	Winthrop	December 14, 1979	December 14, 1979 Proposed Seawall Repairs - Winthrop Beach at Winthrop, Suffolk County, Massachusetts	3	Wirthrop Beach - Seal Harbor Road to Beacon Street	Seawall and Riprap
082-026-000-052-100	082-026-000-052-100-COE1A	79-612	USACE	Winthrop	December 14, 1979	Proposed Seawal! Repairs - Winthrop Beach at Winthrop, Suffolk County, Massachusetts	3	Winthrop Beach - Seal Harbor Road to Beacon Street	Seawall and Riprap
082-040-000-005-100	082-040-000-005-100-COE1A	79-612	USACE	Winthrop	December 14, 1979	Proposed Seawall Repairs - Winthrop Beach at Winthrop, Suffolk County, Massachusetts	3	Winthrop Beach - Seal Harbor Road to Beacon Street	Seawall and Riprap
082-051-000-026-100	082-051-000-026-100-COE1A	51-74	USACE	Winthrop	February 20, 1951	Proposed Groins at Winthrop Beach, Winthrop, Suffolk County, Massachusetts	+	Shore Drive from Beacon Street to Beach Road	Groins
082-051-000-026-100	082-051-000-026-100-COE1B	79-612	USACE	Winthrop	December 14, 1979	Proposed Seawall Repairs - Winthrop Beach at Winthrop, Suffolk County, Massachusetts	3	Winthrop Beach - Seal Harbor Road to Beacon Street	Seawall and Riprap
082-068-000-080-100	082-068-000-080-100-COE1A	79-612	USACE	Winthrop	December 14, 1979	December 14, 1979 Proposed Seawall Repairs - Winthrop Beach at Winthrop, Suffolk County, Massachusetts	6	Winthrop Beach - Seal Harbor Road to Beacon Street	Seawall and Riprap

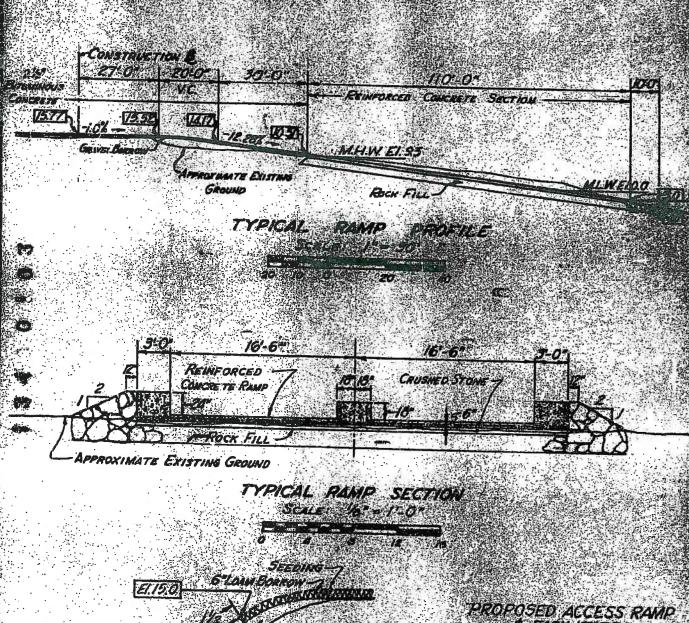
082-013-000-002-100

EEB PARKING AREA TOWN OF WINTHROP Note: Elevations are in fe tenths above the pla Mean Low Woter, Minu figures show depths bell that plane Proposed es ations shown thus 165 Location of proposed work shown in red. PROPOSED ACCESS RAM #2.61/2**61/12**51 WINTHROP HARBON
WINTHROP MASS

Application by
DEPARTMENT OF HIBLIC MODE
OF MASSACHUSETTS WINTHROP HARBOR PLAN DIVISION OF WATERWA SCALE: 1"=190" JULY 1970

Edward Chase
Acting DEPUTY CHIEF
ENGINEER WATERWAYS

087-013-000-002-100



TONE FOR WATERMAY

REVETMENT

PASTICSTABILITY

TYPICAL REVETMENT

SECTION Scale: Vie"=1'-0"

FILTER

APPROXIMATE -

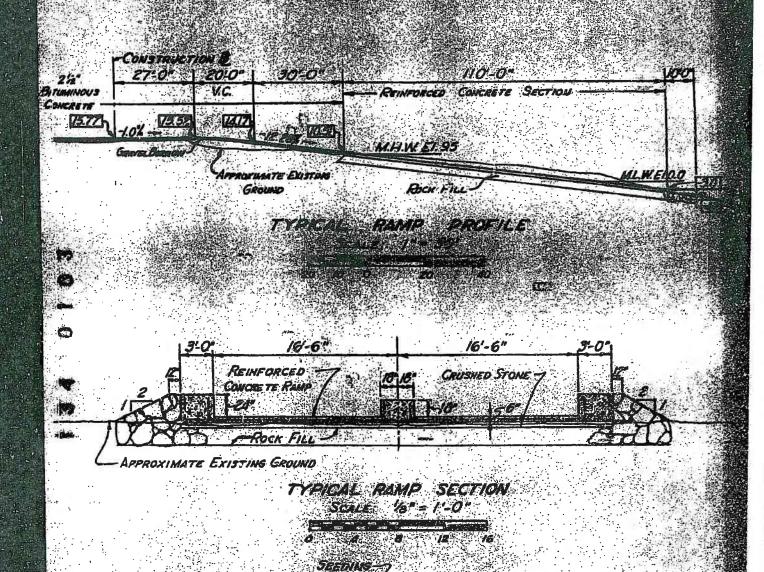
EXISTING GROUND

G FACILITIES
WINTHROP HARBOR
WINTHROP MASS
Application Bu
DEPARTMENT OF PUBLIC WORKS
OF MASSACHUSE TTS
DIVISION OF WATERWAYS

JULY 1970

Edward Chase

082-013-000-002-100



APPROXIMATE EXISTING GROUND PLASTIC STRIBUTY
FILTER

TYPICAL REVETMENT
SECTION
SCALE: 4/16"=1'-0"

PROPOSED ACCESS RAMP

& FACILITIES

WINTIARCE HARBOR

Application By

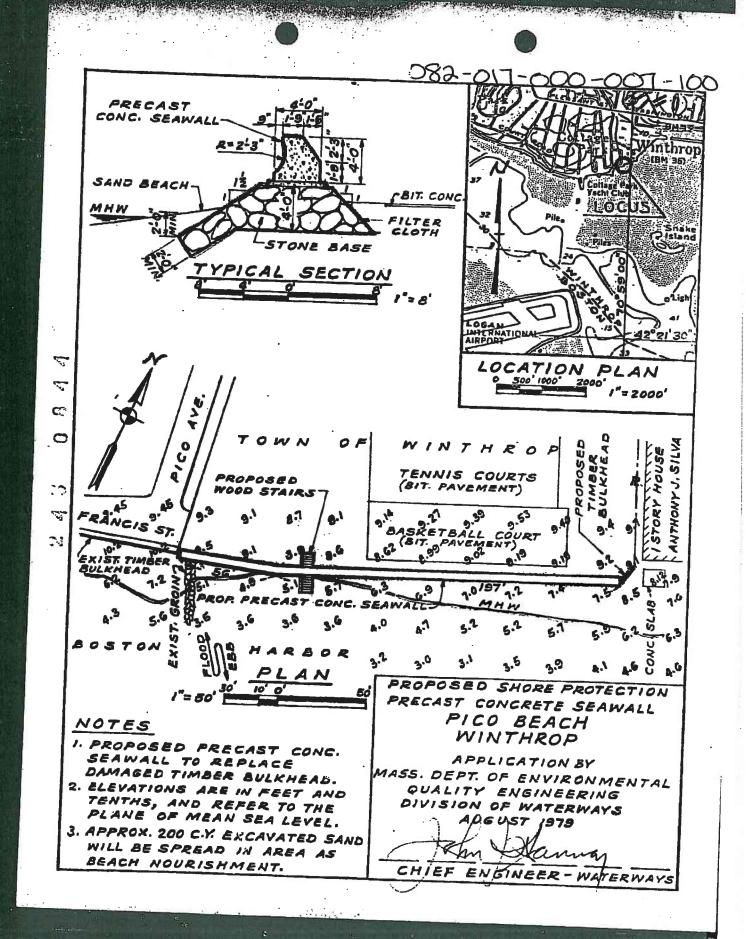
DEPARTMENT OF PUBLIC WORK

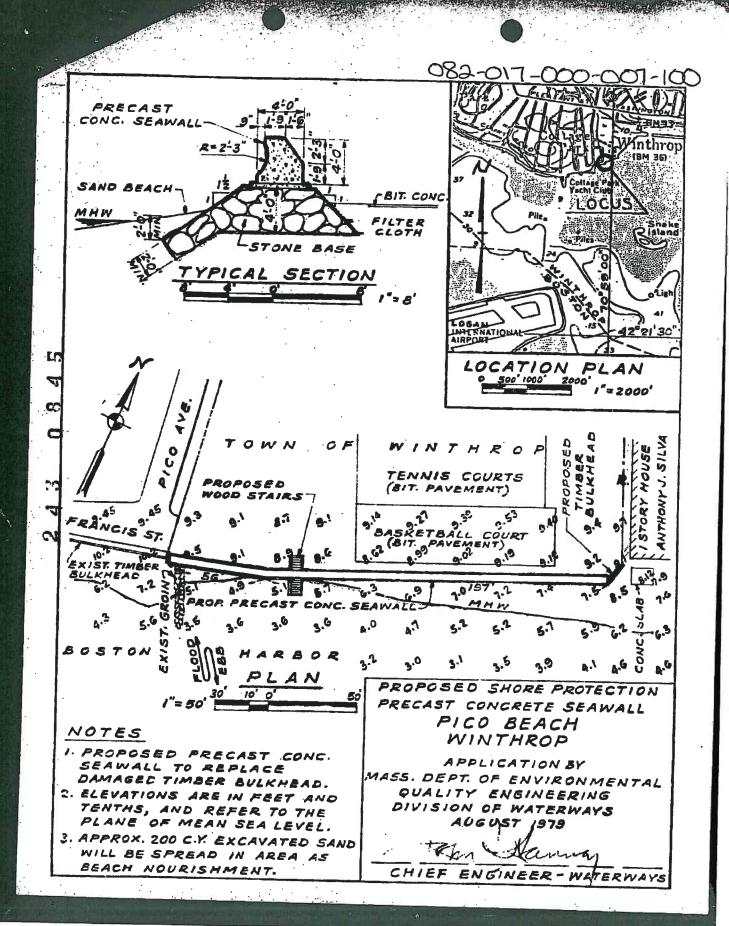
OF MASSACHUSETTS

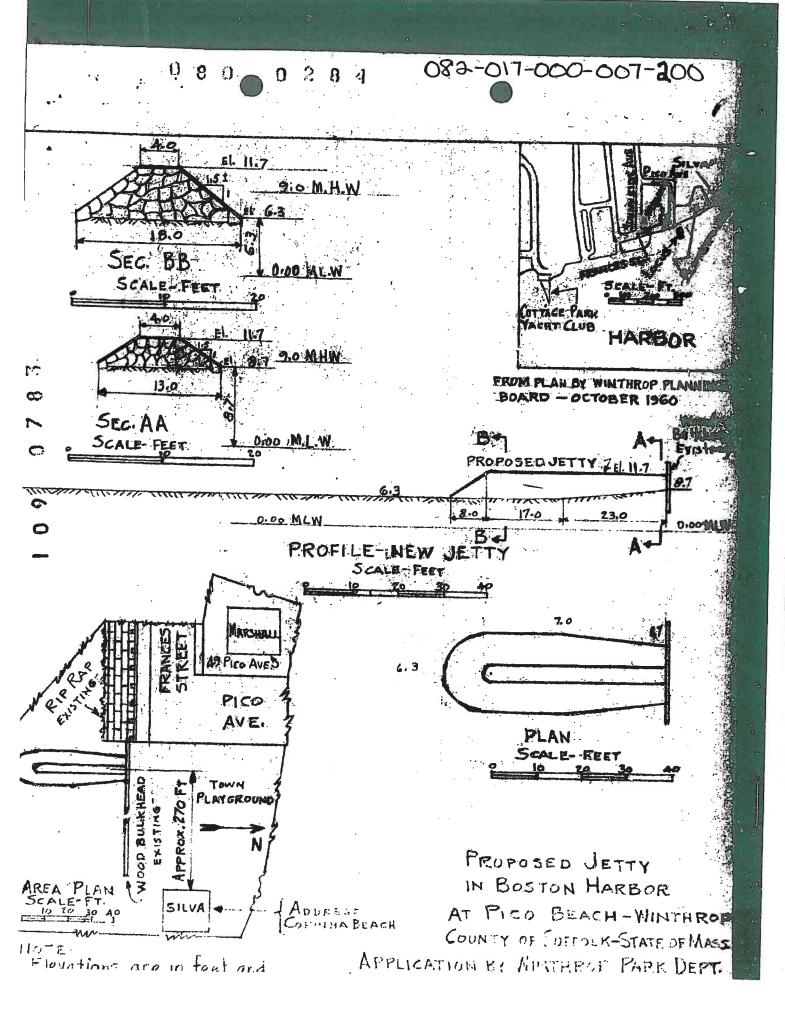
DIVISION OF WATERWAYS

JULY 1970

Acting DEPUTY CHIEF







0 0 2 8 5

082-017-000-007-200

HERBERT W. MARGUS SECRETARY

HAROLD R. WINTER

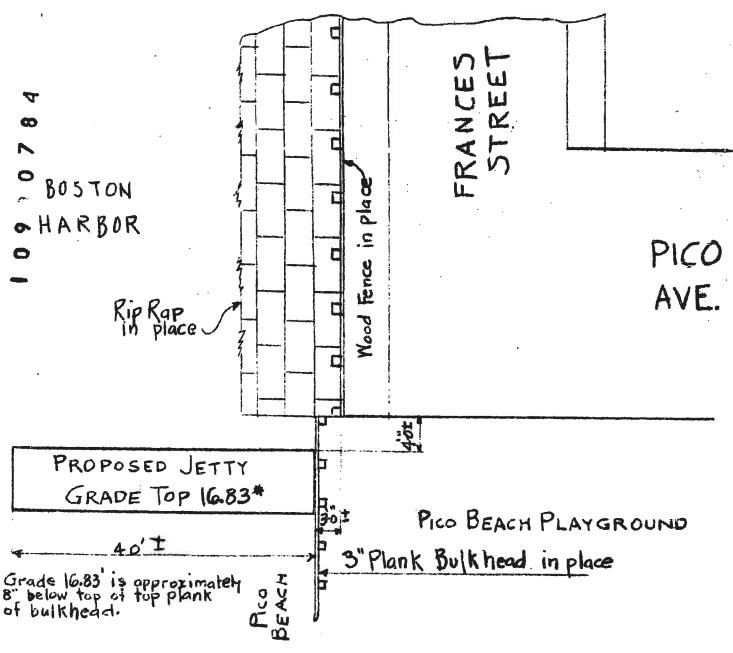
PAUL C. CONNOR

TOWN OF WINTHROP MASSACHUSETTS

Population 19,494



OFFICE OF BOARD OF PARK COMMISSIONERS

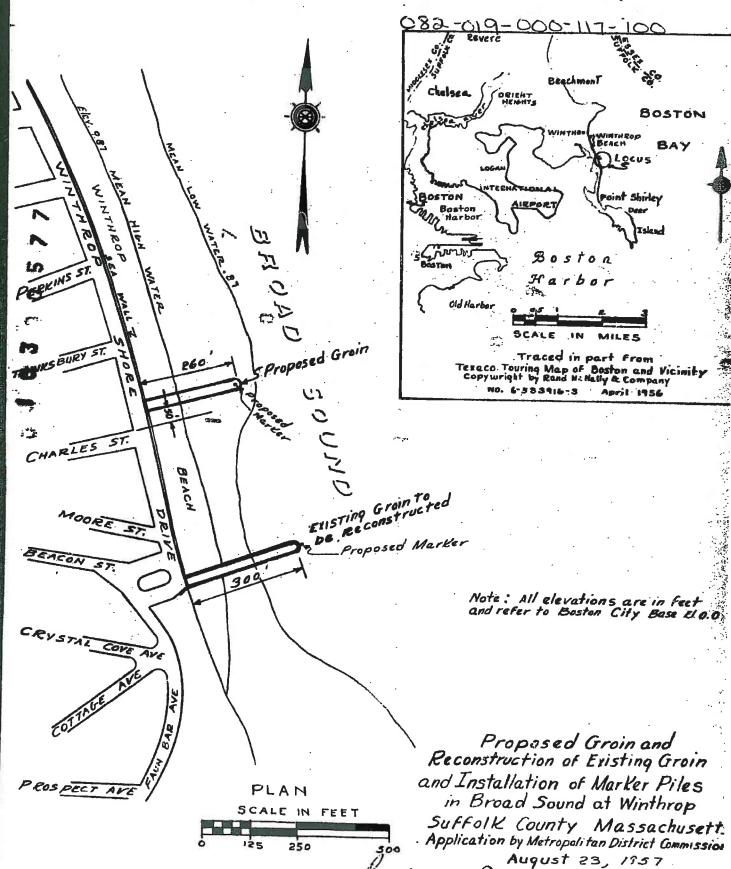


PROPOSED JETTY AT PICO BEACH, WINTHROP MASS.

US ENG OFFICE 082-019-000-117-100 11 11 46 11 11 08 2-051-000-026-100 SS. ROPOSED GROINS FROM U.S.C. & G.S. CHART EXISTING WALL LONGITUDINAL PROPOSED GROINS MARKER DOLPHIN REBUILD EXISTING GROIN PLAN-2000 COVER STONE 2000 TO 8000 AVER. 6000 LBS. SAND TIGHT RUN OF THE QUARRY CORE TYPICAL SECTION THRU GROIN SOUNDINGS ARE IN FEET AND REFER TO MEAN LOW WATER PROPOSED GROINS AT WINTHROP BEACH, WINTHROP SUFFOLK COUNTY, MASS. Application by METROPOLITAN DISTRICT COMM.

DIRECTOR OF FARK ENGINEERS



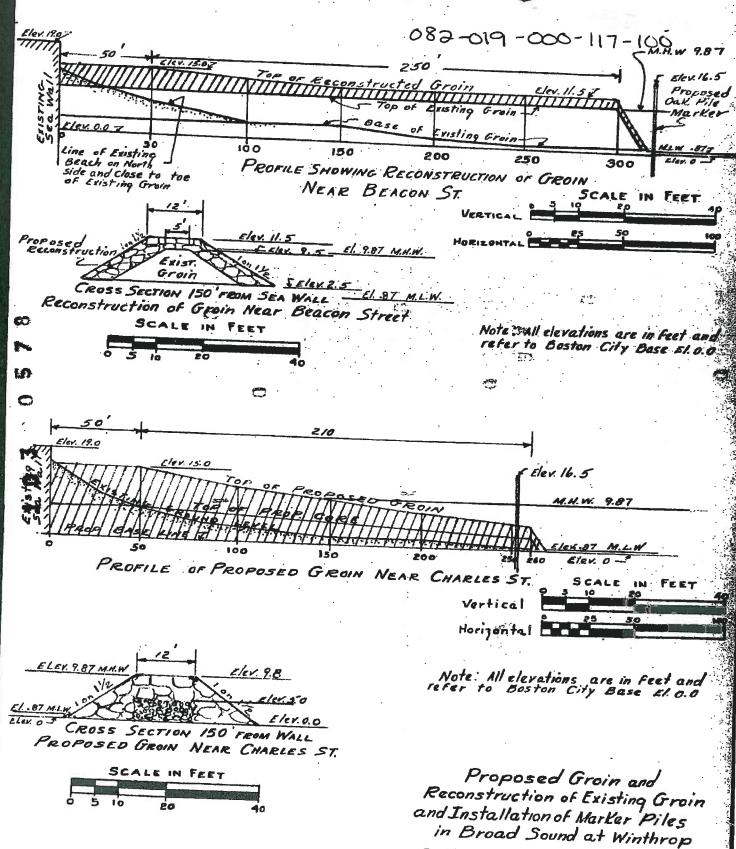


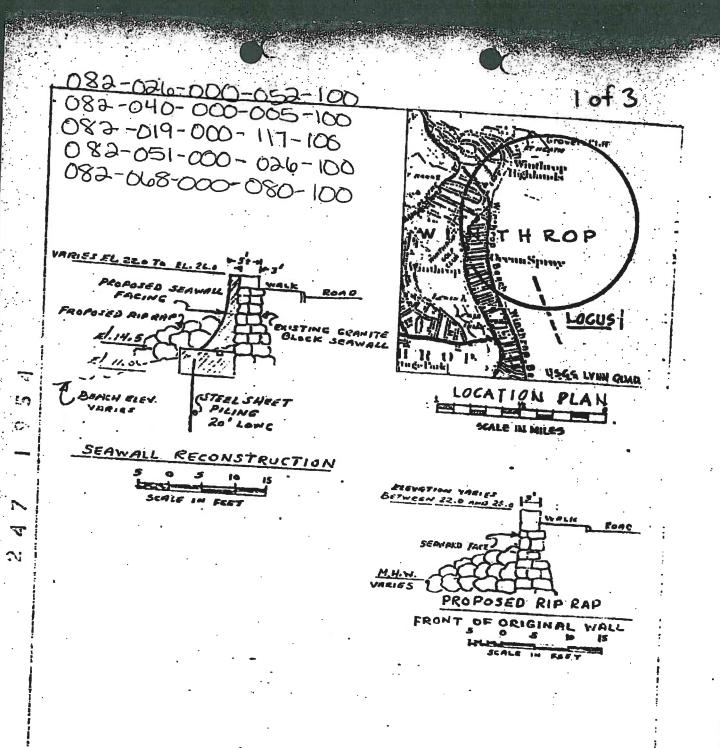


Suffolk County Massachusetts

DIRECTOR OF PARK ENGINEERING

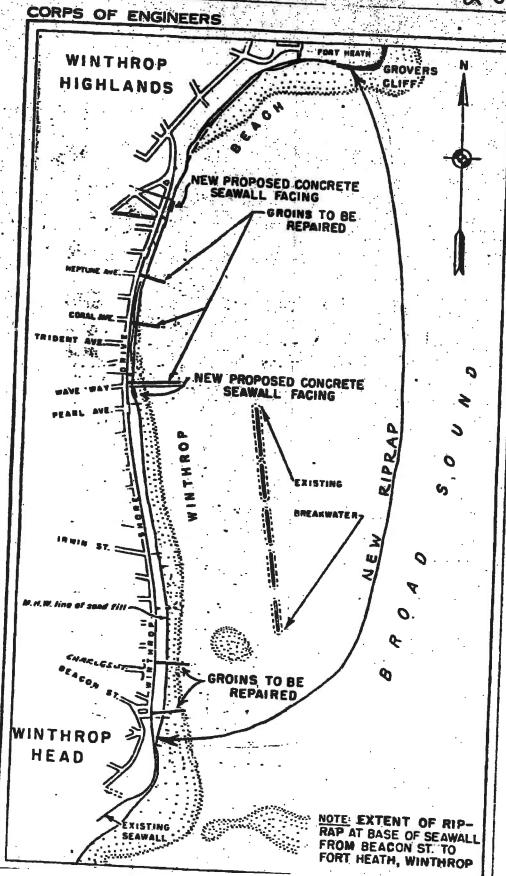
Senjamin W. 7 in Application by Metropolitan District Commission





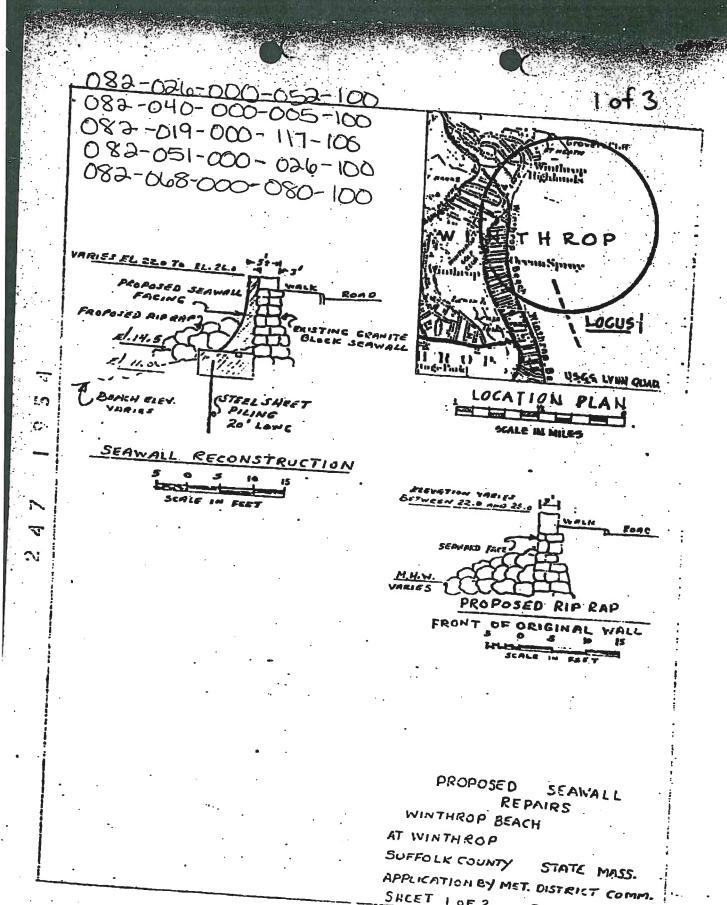
PROPOSED SEAWALL
REPAIRS
WINTHROP BEACH
AT WINTHROP
SUFFOLK COUNTY STATE MASS.
APPLICATION BY MET. DISTRICT COMM.
SHEET 1 OF 2 DATE

0.019



CO

083-036-000-653-100 083-040-000-005-100 083-019-000-01-17-100 083-051-000-036-100

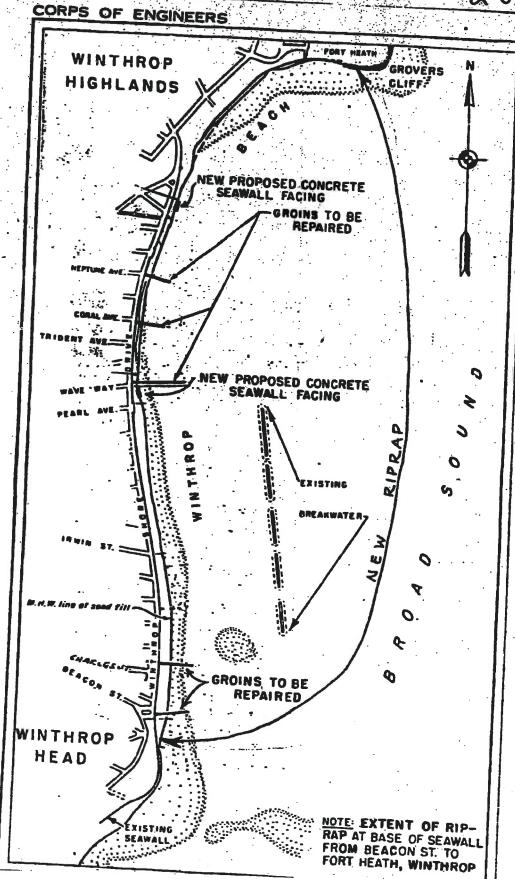


SHEET 1 OF 2

DATE

0.19

089 089 089 089 489



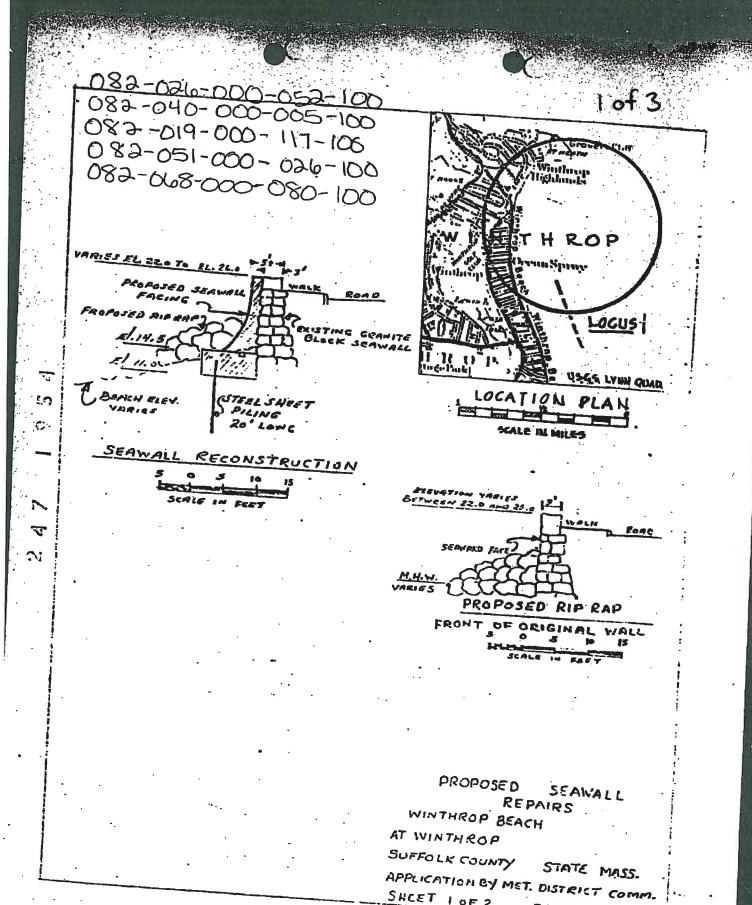
in in

:1

£O.

1

082-026-000-652-100 082-040-000-005-100 082-014-000-01-17-100 082-051-000-626-100



SHEET 10F2

DATE

CORPS OF ENGINEERS WINTHROP GROVERS EW PROPOSED CONCRETE SEAWALL FACING REPAIRED 089 089 689 689 NEW PROPOSED CONCRETE SEAWALL FACING EXISTING DINS TO BE REPAIRED WINTHROP HEAD NOTE: EXTENT OF RIP-RAP AT BASE OF SEAWALL FROM BEAGON ST. TO FORT HEATH, WINTHROP

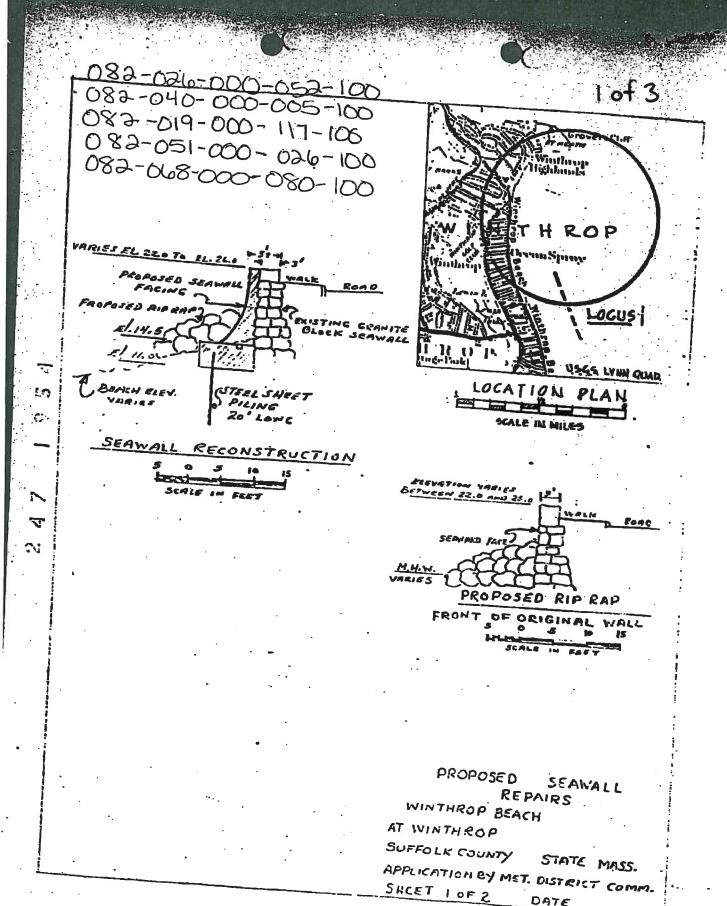
LO

£Q.

1

082-026-000-052-100 082-040-000-005-100 082-014-000-021-17-100 082-051-000-020-100

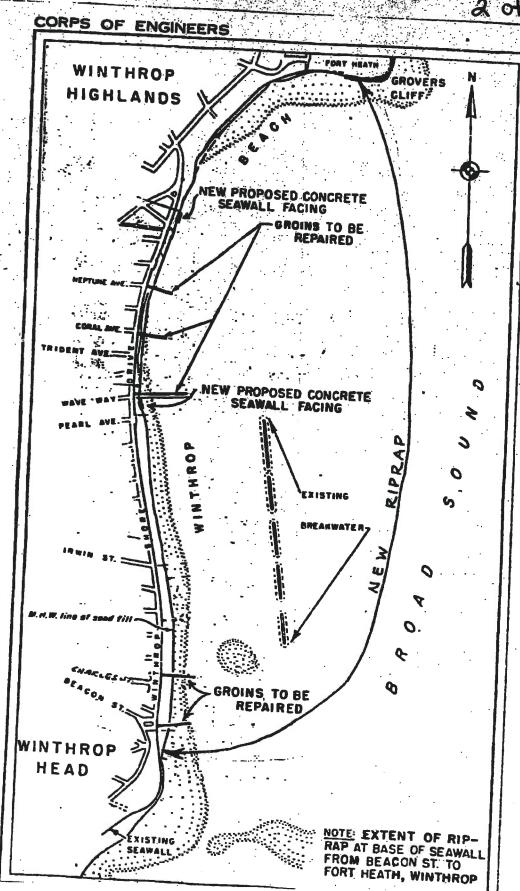
US ENG OFFICE 082-019-000-17-100 1 11 46 11 15 08 2-051-000-026-100 SS. ROPOSED GROINS FROM U.S.C. & G.S. CHART EXISTING WALL . LONG!TUDINAL PROPOSED GROINS TYPICAL MARKER DOLPHIN REBUILD EXISTING GROIN PLAN-COVER STONE ZOOD TO 8000 AVER. 6000 LBS. SAND TIGHT RUN OF THE QUARRY CORE TYPICAL SECTION THRU GROIN SOUNDINGS ARE IN FEET AND REFER TO MEAN LOW WATER PROPOSED GROINS AT WINTHROP BEACH, WINTHROP SUFFOLK COUNTY, MASS. Application by METROPOLITAN DISTRICT COMM.



DATE

-0.19 --0.50 -

089 089 089 089

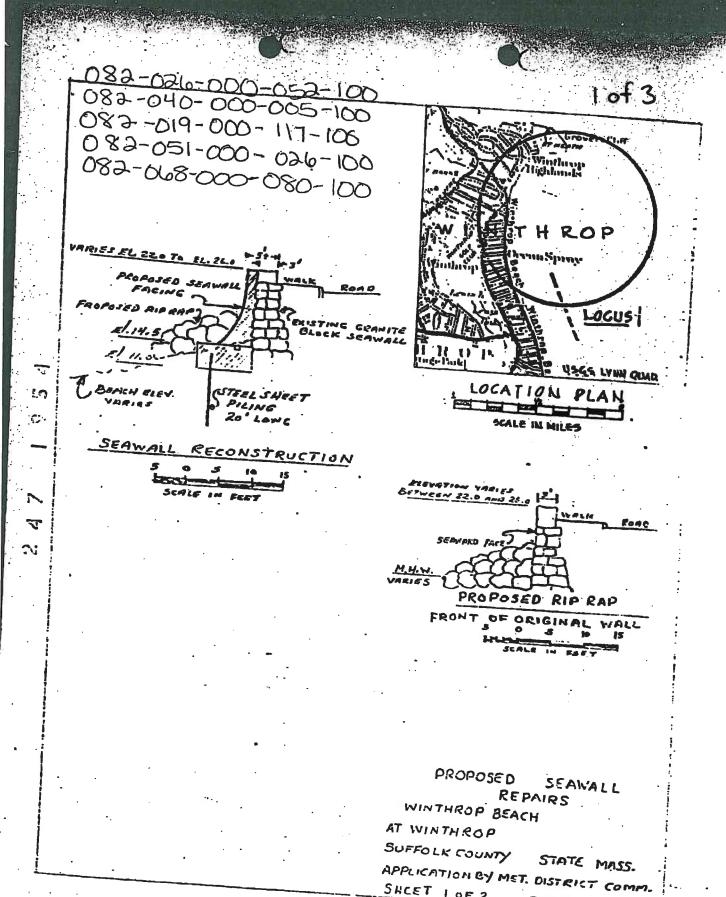


LO

in in

1

82-026-000-050-100 82-040-000-005-100 83-019-000-000-01-17-100 82-051-000-000-080-100



SHEET 10F2

DATE

CORPS OF ENGINEERS GROVERS GLIFF WINTHROP W PROPOSED CONCRETE SEAWALL FACING ROINS TO BE NEW PROPOSED CONCRETE SEAWALL FACING OINS TO BE WINTHROP HEAD NOTE: EXTENT OF RIP-RAP AT BASE OF SEAWALL FROM BEAGON ST. TO FORT HEATH, WINTHROP

in in 083-036-000-053-100 083-040-000-005-100 083-019-000-117-100 081-051-000-036-100

000-059-100 000-005-100 000-1/1-100 000-046-100

10. 0

.1 .2

Section IV

Chelsea



Section IV - Community Findings - City of Chelsea

COMMUNITY DESCRIPTION

The City of Chelsea consists of a land area of 2.19 square miles out of a total area of 2.48 square miles and had a population of 35080 in the 2000 census. The City is located in the Boston Harbor of Massachusetts and its location can be seen on this report's cover. None of the Chelsea shoreline is directly exposed to open ocean. The City is protected from major coastal storms by both natural and manmade shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the City were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned, including coastal dunes and beaches, based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

STRUCTURE INVENTORY

Within the City of Chelsea, there were 4 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 2 in Section IV-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - City of Chelsea

	Total		Structure Condition	on Rating	<u> </u>	
Primary Structure (1)	Structures A	<u>B</u>	С	D	F	Total Length
Bulkhead / Seawall	2	2				2780
Revetment	2	1	1			305
3reakwater						
Groin / Jetty						
Coastal Dune						
Coastal Beach						
	4	3	1			3085

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the City of Chelsea's case there are a total of 4 structures which would require approximately \$ 540,000 to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event which Chelsea has none.

BCE

IV-A-1 City of Chelsea

STRUCTURE REPAIR / RECONSTRUCTION COST - City of Chelsea

	Total		Struct	ure Condition	Rating			
Primary Structure (1)	Structures	A	В	с	D	F	Tota	l Cost
Bulkhead / Seawall	2		\$436,088				\$	436,088
Revetment	2		\$12,210	\$93,773			\$	105,983
Breakwater							\$	_
Groin / Jetty							\$	-
Coastal Dune							\$	-
Coastal Beach							\$	-
	4	\$ -	\$ 448,298 \$	93,773	-	\$	- \$	542,071

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the City of Chelsea, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - City of Chelsea

	Total		Str	uctui	re Conditio	n Ratin	g			
Primary Structure (1)	Structures	Α	В		С	1	5	 F.	Total	Cost
Town Owned	1		\$12,210						\$	12,210
Commonwealth of Massachusetts	3		\$436,088		\$93,773				\$	529,861
Federal Government Owned									\$	-
Unknown Ownership									\$	-
	4	\$ -	\$ 448,298	\$	93.773	\$		\$ 	s	542.071

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section IV-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the City of Chelsea's coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

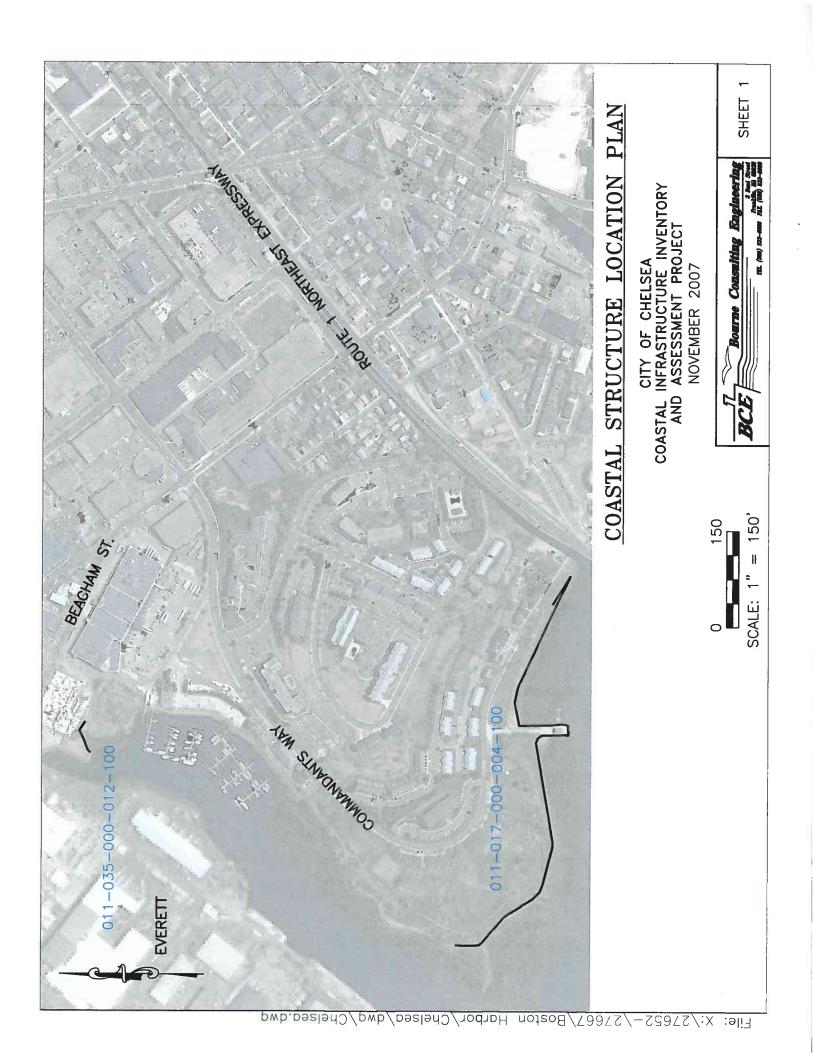
BCE

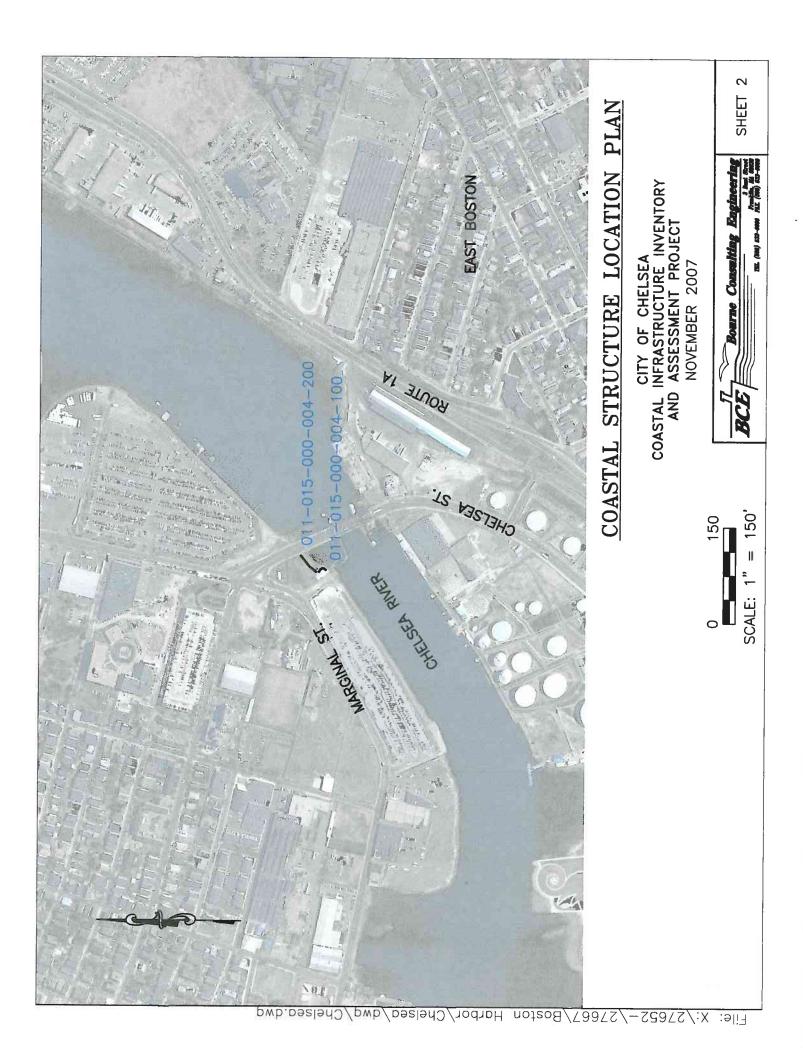
Section IV - Chelsea

Part B

Structure Assessment Reports







Structure Assessment Form

Town: Chelsea
Structure ID: 011-015-000-004-100

State		Location:		Date:
		Eastern Aven	ue	7/24/200
Presumed Structur	re Owner:	ll Based On Col	mment:	, , , , , ,
State				
Owner Name:			hire Records	Estimated Reconstruction/Repair Cost:
MA-DCR		1986	tare Record.	\$22,433.00
the same of the sa	Elevation: FIRM Map Z			
55			N/A	
Feet Feet M	NAVD 88	Feet NG	VD	The state of the s
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawall	Concrete	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Heigh	t:	
Revetment	Stone	10 to 15 Feet	191,20	· · · · · · · · · · · · · · · · · · ·
Structure Summan				a riprap slope comprised of mostly cobbles and
Rating Level of Action Description	Good Minor Structure observed to exhibit problems, superficial in natural to landform is present. Struadequate to provide protectic coastal storm with no damage to prevent / limit future determine of structure.	re. Minor erosion acture / landform on from a major ge. Actions taken	Priority Rating Action Description	Low Priority Future Project Consideration Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Assessment Form

Town: Chelsea
Structure ID: 011-015-000-004-200

Property Owner:		Location:	W	Date:
State		Eastern Aven	ue	7/24/2007
Presumed Structure	e Owner:	Based On Cor	nment:	,
State				
Owner Name:		Earliest Struct	ture Record:	Estimated Reconstruction/Repair Cost:
MA-DCR		1986		\$93,773.00
	levation: FIRM Map Zone:	FIRM Map Elevat	ion:	
120	A3	ľ	I/A	
Feet Feet N	AVD 88	Feet NG	VD	The state of the s
Primary Type:	Primary Material:	Primary Height:		
Revetment	Stone	10 to 15 Feet		
Secondary Type:	Secondary Material:	Secondary Heigh	t:	
				7.34.00
Structure Summary	:			
A combination of o existing slope. It is	oncrete debris mixed with approxin s in fair condition with movement o	nately 1 foot diame f stone and cement	ter stones and gra n pieces evident.	ite blocks that have been loosely dumped on an
Condition	С		Priority	HI
Rating	Fair		Rating	Moderate Priority
Level of Action	Moderate		Action	Consider for Active Project Improvement Listing
Description	Structure is sound but may exhibit deterioration, section loss, cracking undermining, and/or scour. Struct to withstand major coastal storm of moderate damage. Actions taken structure to provide full protection coastal storm and for extending list structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a storm. Actions taken to provide as material for full protection and extending the storm of the storm of the storm of the storm.	ng, spalling, ure adequate with little to to reinforce from major fe of damage to to be sufficient major coastal ddition	Description	Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
Structure Image		octure Documer		gn of Riprap 011-015-000-004-200-DCR2A
011-015-000-004-2	00-PHO2A.JPG MA-	DCR Ja	Desig	gn of Riprap 011-015-000-004-200-DCR2A

Structure Assessment Form

Town: Chelsea
Structure ID: 011-017-000-004-100

Property Owner:			Location:			Date:	
State			O'Malley Park				8/6/2007
Presumed Structure	e Owner:		Based On Cor	nment:		ia.	at the state of th
State							
Owner Name:			" Earliest Struct	ure Record:	Estimated	Reconstructi	ion/Repair Cost:
MA-DCR						Trocomba dea	\$413,655.00
Length: Top E	levation:	FIRM Map Zone:	FIRM Map Elevat			demonstration of the second sec	
1 .	AVD 88	A2	Foot NC	10			W.C. or published
			Feet NG	VD			
Primary Type: Bulkhead/ Seawall	1 - 1 - 0 0	ry Material:	Primary Height: 5 to 10 Feet	· ·		T	•
Secondary Type:		lary Material:	•	.			
Secondary Type.	- Second	ial y Material.	Secondary Height	<u>. </u>			
Structure Summary			•				
littered with large of needs to be repaired	granite boulders	s. The wall is genera	lly in good condition	on apart from the s	ntertidal shore in front of section that extends outsh	ore, which is	fenced off and
Rating	Good			Priority Rating	II Low Priority		
Level of Action	Minor			Action	Future Project Consid	feration	
Description	problems, sup to landform is adequate to p coastal storm	erved to exhibit very in erficial in nature. Mir present. Structure in rovide protection from with no damage. Act nit future deterioration e.	nor erosion / landform n a major tions taken	Description	Inshore Structures Proposential for Significar		
Structure Image 011-017-000-004-10 011-017-000-004-10 011-017-000-004-10 011-017-000-004-10	00-PHO1A.JPG 00-PHO1B.JPG 00-PHO1C.JPG 00-PHO1D.JPG		cture Documen	ıts:			

Structure Assessment Form

Town: Chelsea
Structure ID: 011-035-000-012-100

Property Owner:			Location:			Date:
Local			Justin Drive		-	8/6/2007
Presumed Structure	e Owner:		Based On Com	ment:		
Local	- A - A					
Owner Name:		<u></u>	Earliest Struct	ure Record:	Estimated I	Reconstruction/Repair Cost:
Chelsea						\$12,210.00
	levation:	FIRM Map Zone:	FIRM Map Elevati	on:	- 1	
185		A2		10		
Feet Feet N	IAVD 88		Feet NGV	'D		
Primary Type:	Prima	y Material:	Primary Height:	_		
Revetment	Stone		Under 5 Feet			
Secondary Type:	Second	lary Material:	Secondary Height	<u>:</u>		
1					That is seen	in the state of th
Structure Summary			<u></u>			
A small revetment	consisting of lo	osely laid granite blo	cks with an average	stone size 2 feet	by 1 foot by 3 feet. Spaci cks appear to be stable ar	ing in between the stones
typically ranges in	in o to 12 inch	s. There is maisma	ing in front of the re	evernent. The bio	cks appear to be stable ar	na in good condition.
Condition	В			Priority	Ш	
Rating	Good			Rating	Low Priority	
Level of Action	Minor			Action	Future Project Conside	eration
Description	problems, sup to landform is adequate to p coastal storm	erved to exhibit very erficial in nature. Min present. Structure rovide protection fror with no damage. Ac nit future deteriorations.	nor erosion / landform n a major tions taken	Description	Inshore Structures Pre potential for Significan	esent with Limited t Infrastructure Damage
Structure Image			cture Document	ts:		
011-035-000-012-1	uu-PHO1A.JPG					Trail to the state of the state
						La Company of the Com
						- Andrews - Andr
			,			anna-contains

Section IV - Chelsea

Part C

Structure Photographs



CITY: CHELSEA SOURCE: CEC - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
011-015-000-004-100	011-015-000-004-100 011-015-000-004-100-PHO1A.JPG		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
011-015-000-004-100	011-015-006-004-100 011-015-000-004-100-PHO1B.JPG		Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
011-015-000-004-200	011-015-000-004-200 011-015-000-004-200-PHO2A.JPG		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condilon Photo at Time of Survey
011-017-000-004-100	011-017-000-004-100 011-017-000-004-100-PHO1A.JPG		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Canditon Photo at Time of Survey
011-017-000-004-100	011-017-000-004-100 011-017-000-004-100-PHO1B.JPG		Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
011-017-000-004-100	011-017-000-004-100 011-017-000-004-100-PHO1C.JPG		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
011-017-000-004-100	011-017-000-004-100 011-017-000-004-100-PHO1D.JPG		Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
011-017-000-004-100	011-017-000-004-100 011-017-000-004-100-PHO1E.JPG		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
011-012-000-02A-100	011-012-000-02A-100 011-012-000-02A-100-PHO1A.JPG		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

Massachussetts Coastal Infrastructure and Assessment



Section IV - Chelsea

Part D

Structure Documents

CITY DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE - PERMIT DOCUMENT LIST

• Copies of Permit Documents



CITY: CHELSEA SOURCE: City of Chelsea LOCATION: TOWN DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Confract/ Drawing Number	Entity	Municipality	Date	THIB	Sheets	Location	Description

CITY: CHELSEA SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
011-015-000-004-100	11-015-000-004-100 011-015-000-004-100-DCR1A	3134	DCR	Chelsea	Jan-86	Design of Riprap Slope Protection - South Side of Mil Creek - Chelsea - DPW of MA - Division of Waterways	ю	South Side of Mill Creek	Riprap
011-015-000-004-200	11-015-000-004-200 011-015-000-004-200-DCR2A	3134	DCR	Chelsea	Jan-86	Design of Riprap Slope Protection - South Side of Mill Creek - Chelsea - DPW of MA - Division of Waterways	6	South Side of Mill Creek	Riprap

No MA - DEP Ch. 91 Documents for the City of Chelsea

CITY: CHELSEA SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

		Contract							
BCE Structure No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
		Number			_				

No US ACOE Documents for the City of Chelsea

CITY: CHELSEA SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

							į		
		Contract/							
BCE Structure No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
		Number							•

	Document No Draw	tract/ wing Entity nber	y Municipality	Date	Trtle	Sheets	Location	Description

Section V

Everett

Section V - Community Findings - City of Everett

COMMUNITY DESCRIPTION

The City of Everett consists of a land area of 3.38 square miles out of a total area of 3.66 square miles and had a population of 38037 in the 2000 census. The City is located in the Boston Harbor of Massachusetts and its location can be seen on this report's cover. None of Everett's shoreline is directly exposed to open ocean. The City is protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. According to a representative from the Everett Mayor's Office, none of the structures along the City's coast are publicly owned and/or maintained. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events.

SUMMARY

Though there were no publicly owned structures at the time of investigation, the project database can be updated as needed for future construction. The City of Everett's coastal structure information will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.



V-A-1 City of Everett

Section V - Everett

Part B

Structure Assessment Reports

No Publicly Owned/Maintained Structures in the City of Everett



Section V - Everett

Part C

Structure Photographs

No Publicly Owned/Maintained Structures in the City of Everett



No Fleld Photographs for the City of Everett

CITY: EVERETT SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Englineering DATE OF RESEARCH: OCTOBER 2007

		Contract							
BCE Structure No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
		Number							

Section V - Everett

Part D

Structure Documents

No Publicly Owned/Maintained Structures in the City of Everett



No City Documents for the City of Everett

CITY: EVERETT
SOURCE: City of Everett
LOCATION: CITY
DATE OF RESEARCH: SEPTEMBER 2007

		1900-00								
ture No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description	
		Number								

No MA - DCR Documents for the City of Everett

CITY: EVERETT SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

ı		_	_	l
		Description		
		Location		
		ete		
		She		
		Title		
		Date		
		Municipality		
		Entity		
	Contract/	Drawing	Number	
		Document No		
		BCE Structure No		

No MA - DEP Ch. 91 Documents for the City of Everett

CITY: EVERETT SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

ı	-	
	Description	
	Location	
ı	Sheets	
	Title	
	Date	
	Municipality	
	Entity	
	Contract/ Drawing Number	
	Document No	
	BCE Structure No	

No USACE - Permit Documents for the City of Everett

CITY: EVERETT SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

	Description	
	Location	
	Sheets	
	Title	
	Date	
	Municipality	
	Entity	
Contract	Drawing	Number
	Document No	
	BCE Structure No	

Section VI

Harbor Islands



Section VI - Findings - Boston Harbor Islands

COMMUNITY DESCRIPTION

The Islands are located in the Boston Harbor of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline is 3.6 miles that are directly exposed to open ocean. The Islands are protected from major coastal storms by both natural and man-made shoreline structures that require maintenance to insure the long term protection of its coastline. The man-made and publicly owned structures that protect the Islands were investigated for their ability to provide adequate protection from major coastal storms. Structures have been identified as publicly owned based on evidence of investment of public funds made to create/enhance/maintain these structures. The assessment did not include floating or pile supported structures as they are assumed not to provide any significant coastal protection from major storm events. The Islands also are significant in the protection of Boston, Milton, Quincy and Weymouth from ocean propagated waves.

Boston Harbor has many Islands that were not included in this project based on the scope developed by the Coastal Hazards Commission. Thompson Island is not included in this project because it is privately owned. Green Island, Little Calf Island, Calf Island, Outer Brewster Island, Middle Brewster Island, Great Brewster Island and Little Brewster were also not included in this project because they are federally owned and maintained.

STRUCTURE INVENTORY

Within the Boston Harbor Islands, there were 35 structures which had public or unknown ownership which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 10 in Section VI-B of this report. The structures were categorized by their type and by their structural condition based on a preliminary field assessment. The distribution of structures by type and condition can be seen in the following table:

STRUCTURE TYPE AND QUANTITY - Boston Harbor Islands

	Total		Str	ucture Conditio	n Rating		
Primary Structure (1)	Structures	Α	<u>B</u>	С	D	F	Total Length
Bulkhead / Seawall	20	1	5	8	2	4	12697
Revetment	11	1	2	7	1		9625
Breakwater	1		1				625
Groin / Jetty	3		2	1			1410
Coastal Dune							
Coastal Beach							
	35	2	10	16	3	4	24357

Within the above table, the total length of each type of structure is also provided. The structures are listed by the type which is providing the primary coastal protection. Many sites have multiple structure types at the same location (i.e. revetment in front of seawall). These secondary structures, although not identified within these tables, are included in the development of repair/rehabilitation costs.

The development of repair costs has been included by structure type and by condition. In the Boston Harbor Islands's case there are a total of 33 structures which would require approximately \$ 33.5 million to bring all the coastal structures to "A" Rating. Most critical will be the structures in the "D" and "F" classifications as those are assumed to undergo some level of damage or failure during the next major coastal storm event. To reconstruct these structures, identified in the preliminary survey as being in poor condition, an estimated \$ 23 million would be required to upgrade the Islands' coastal protection.

BCE

STRUCTURE REPAIR / RECONSTRUCTION COST - Boston Harbor Islands

	Total		Str	ucti	re Conditio	n Rati	ing			
Primary Structure (1)	Structures	Α	В		С		D	F	Tot	al Cost
Bulkhead / Seawall	20		\$1,525,108		\$3,994,637	\$:	3,728,736	\$15,856,335	\$	25,104,816
Revetment	11		\$181,428		\$4,180,453		\$777,546		\$	5,139,427
Breakwater	1		\$308,750						\$	308,750
Groin / Jetty	3				\$490,960	\$2	2,502,720		\$	2,993,680
Coastal Dune									\$	-
Coastal Beach									\$	-
	35	\$ -	\$ 2,015,286	\$	8,666,050	\$ 7	,009,002	\$ 15,856,335	\$	33,546,673

Based on the limited research within the scope of this project research, the presumed ownership of the structures was established on an initial basis and would be subject to more intense review in future tasks. Structures identified as being owned privately were excluded from further consideration. Although ownership of the land on which the structure was located was a factor, the structure ownership was treated as a separate issue from land ownership. For the Boston Harbor Islands, the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Boston Harbor Islands

	Total		 Str	uct	ure Condition	n R	Rating			
Primary Structure (1)	Structures	Α	В		C		D	F	Tot	al Cost
Town Owned	11		\$1,240,266		\$3,242,659				\$	4,482,925
Commonwealth of Massachusetts	24		\$775,020		\$5,423,391		\$7,009,002	\$15,856,335	\$	29,063,748
Federal Government Owned									\$	-
Unknown Ownership									\$	-
	35	\$ -	\$ 2,015,286	\$	8,666,050	\$	7,009,002	\$ 15,856,335	\$	33,546,673

The identification of presumed ownership was not based on the investigation of legal documents but relied on property ownership and from construction and regulatory documents that were found. A more detailed investigation of legal documents and agreements would be required where structure ownership is disputed. A more detailed identification of structure type, length, condition and location can be found in Section VI-B which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Boston Harbor Islands' coastal structure information that will eventually be input into a state-wide GIS database and will be accessible through MassGIS. This data, when compiled state-wide, will be critical in the development of both short term and long term planning for maintaining and improving Massachusetts coastal protection.

This database will also provide relatively quick access to identify available documentation for these structures as well as the ability to be updated as coastal structure improvements are made.

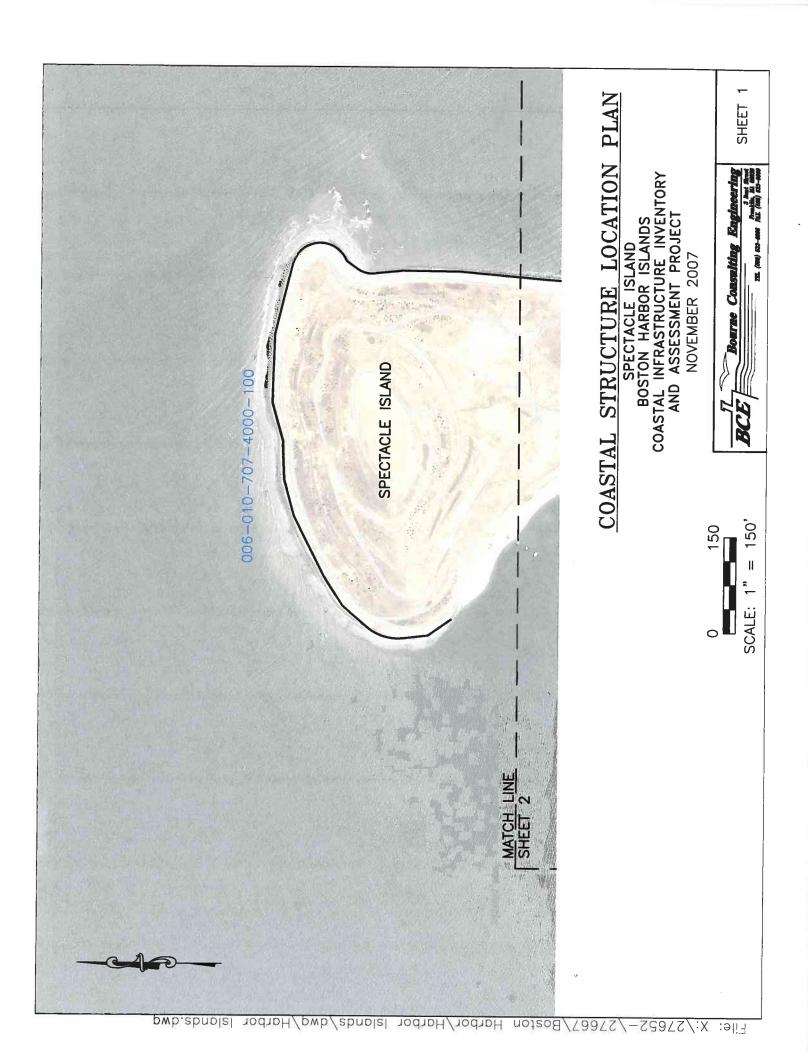


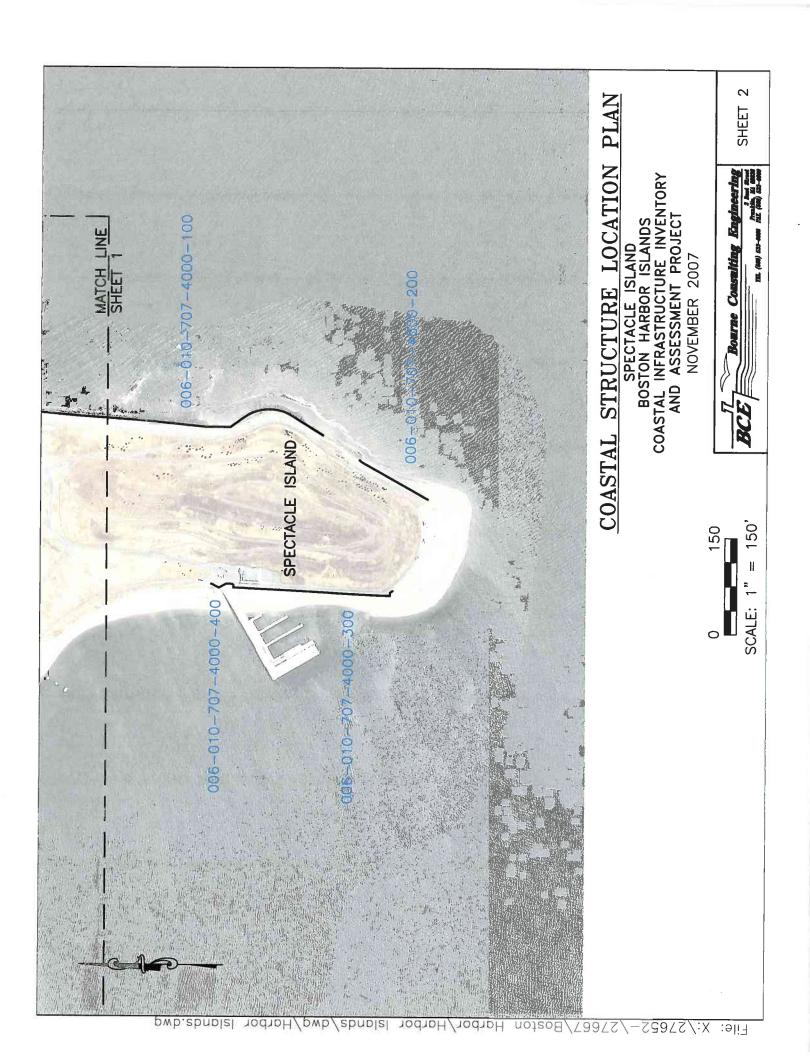
Section VI - Harbor Islands

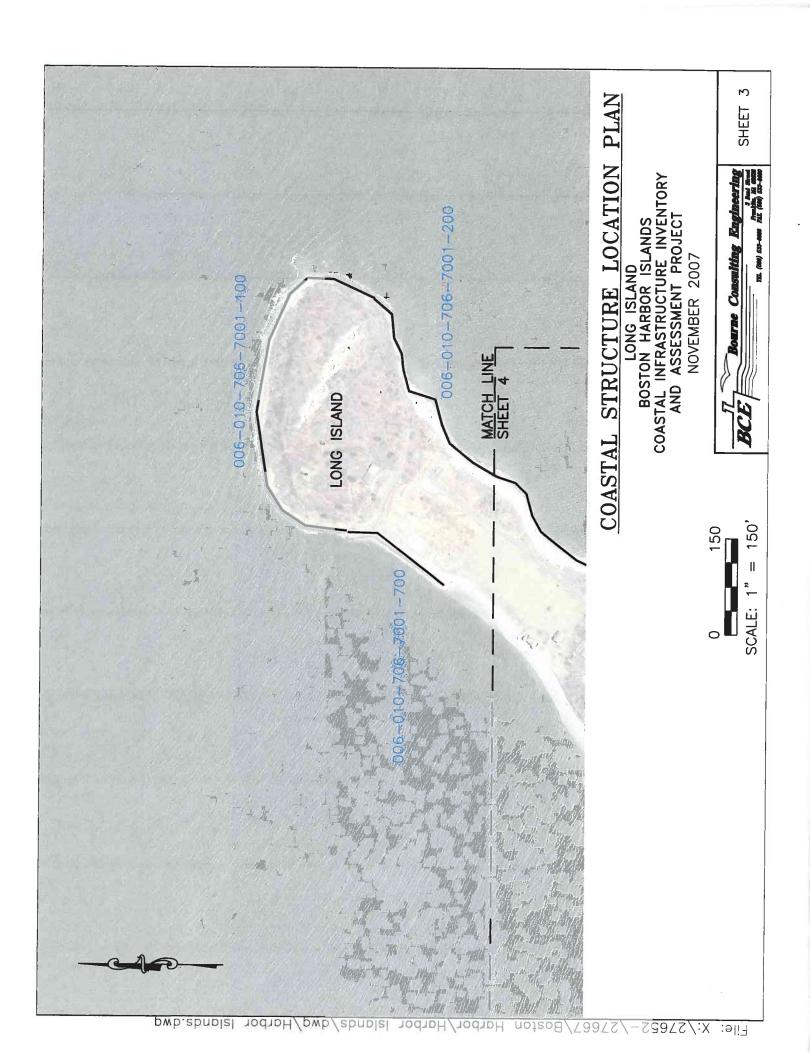
Part B

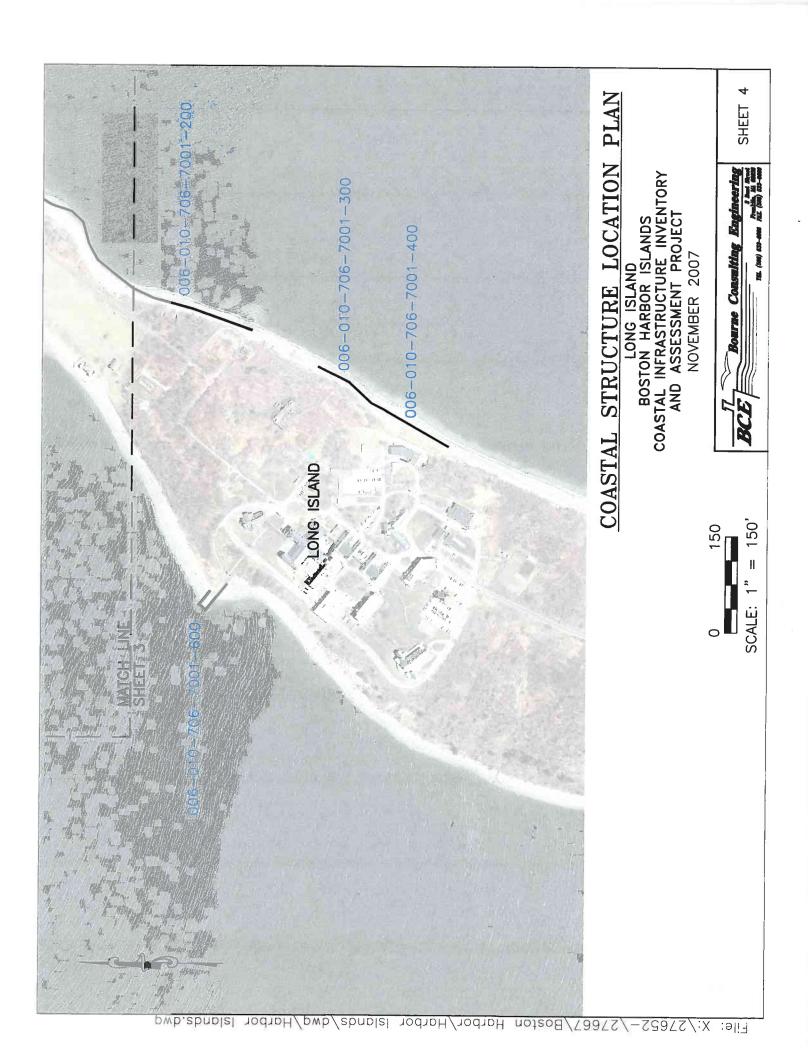
Structure Assessment Reports

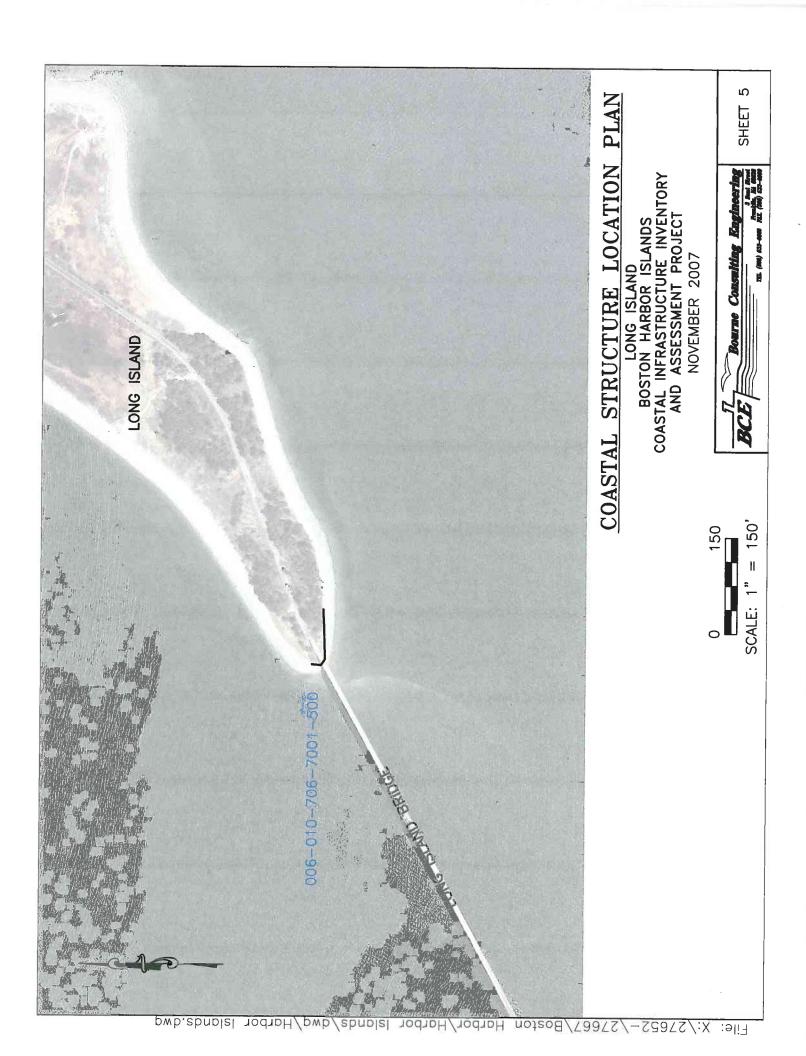


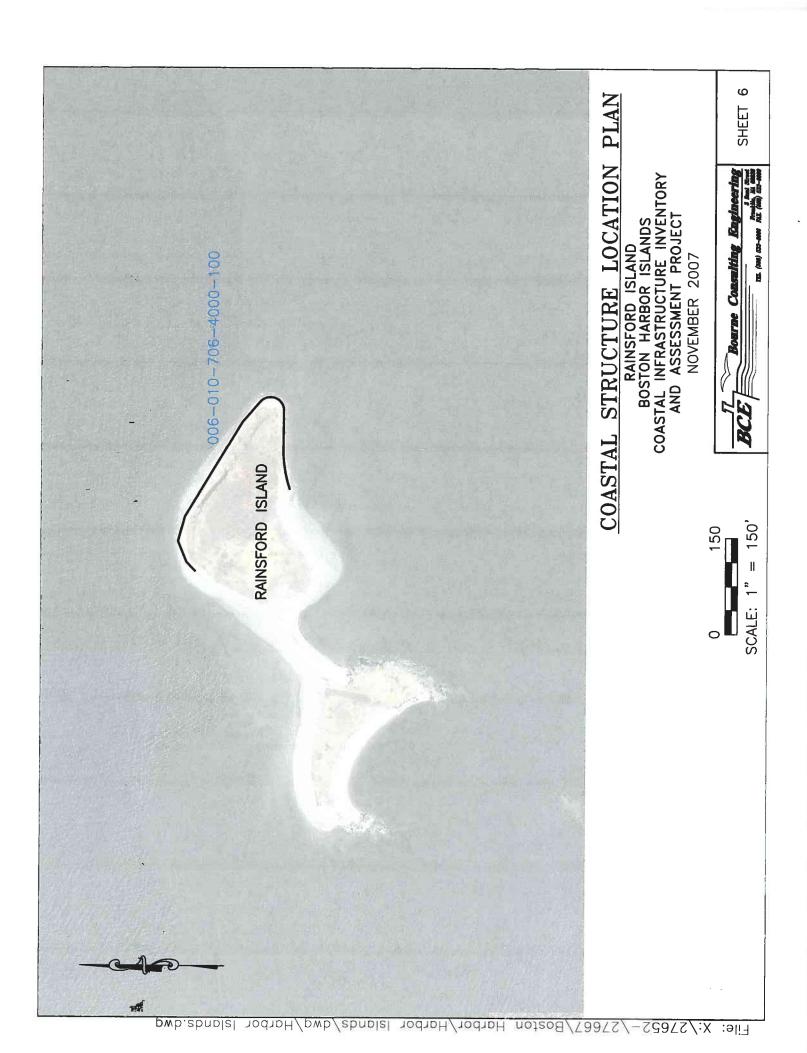


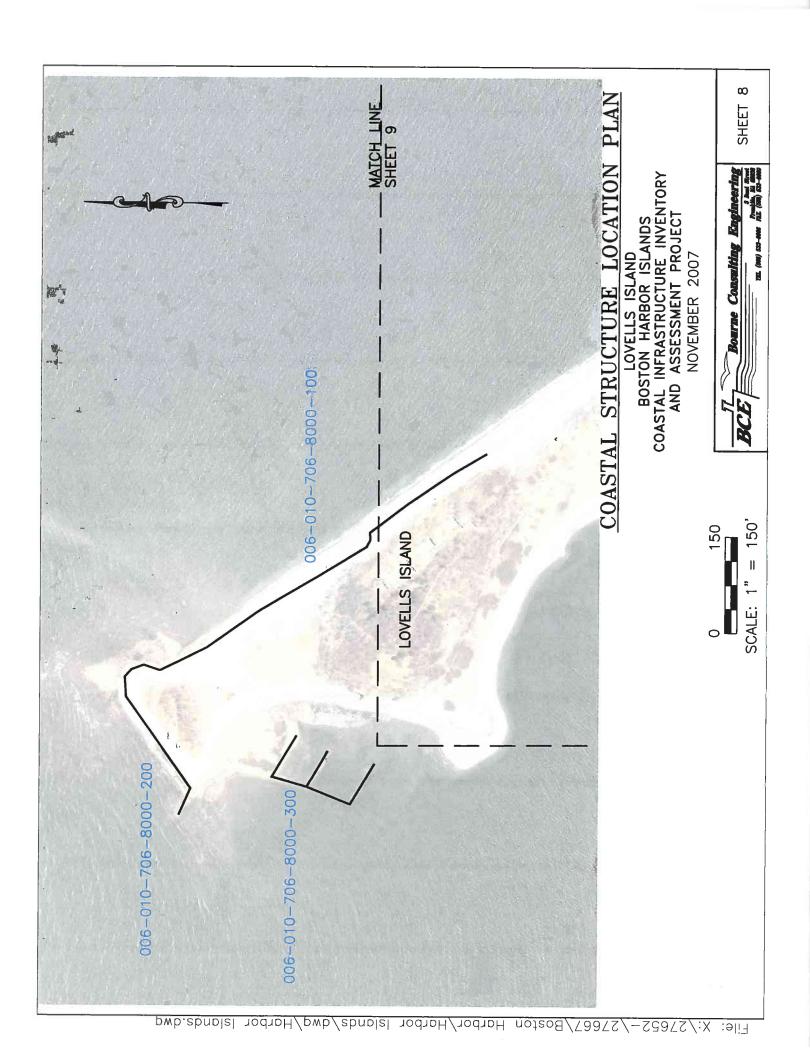


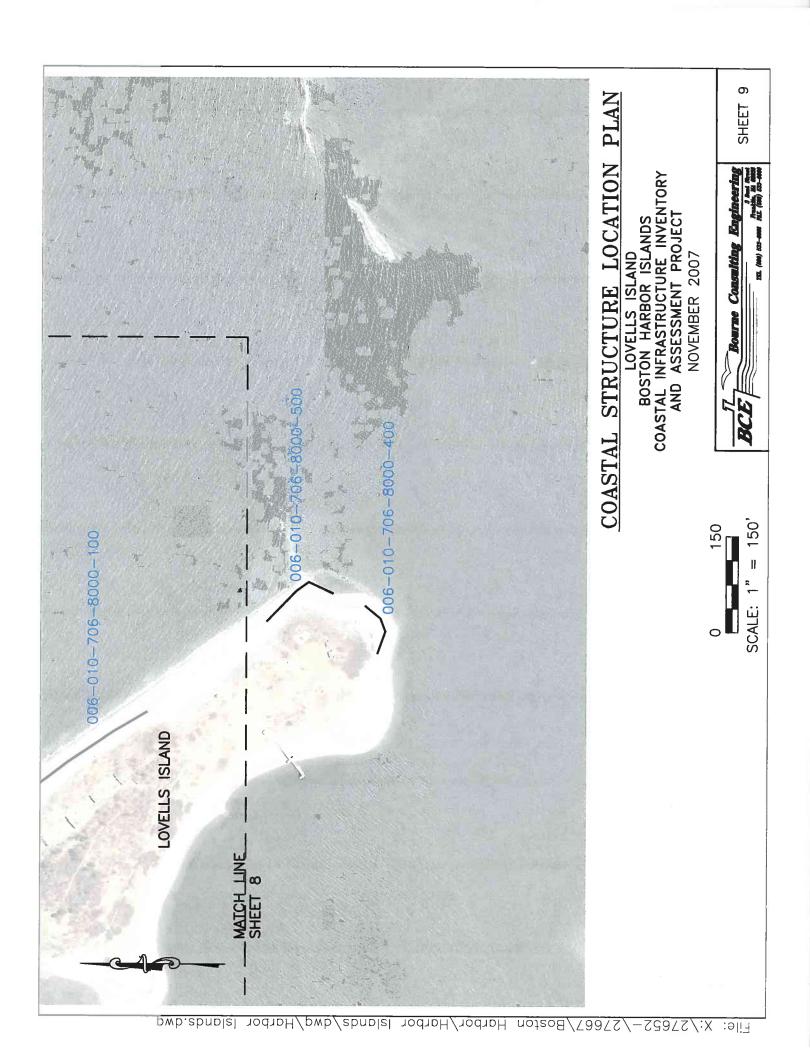












Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-4000-100

Property Owner:		Locatio	n'		Data
State		Rainsfor			Date: 7/25/2007
Presumed Structur	e Owner:	Pased Or	n Comment:		,,25,250,
State	c owner.	Based Oi	ii Comment:		
ji					
Owner Name:			tructure Record	<u> </u>	Estimated Reconstruction/Repair Cost:
July per		1972			\$4,752,000.00
Length: Top E	Elevation: FIRM Map	Zone: FIRM Map E	levation:		
1600		V2	25		
Feet Feet N	NAVD 88	Fee	t NGVD		
Primary Type:	Primary Material:	Primary Heig	ght:		
Bulkhead/ Seawall	Stone	10 to 15 Fee			
Secondary Type:	Secondary Material:	Secondary H	leight:	Acres -	
Structure Summan	<i>(</i> :				The state of the s
the structure. Condition Rating Level of Action Description	F Critical Immediate Conditions of structure/land emergency stabilization as potential loss of property at eroded, loss of integrity. St critical levels of deterioratic cracking, spalling, undermi Structure provides little or r major coastal storm. Action reconstruct structure to reg Landform stability is severe rate of erosion/material loss and landform does not prov protection from a major coa	failure may result in ad/or life. Landform ructure exhibits in, section loss, ning, and/or scour. The protection from a set aken to totally ain full capacity. The compromised, is may be increasing, ride adequate estal storm. Actions	Priority Rating Action Descript	None Long Term	Planning Considerations Structures or Residential Dwelling nt
Structure Image		jor coastal storm. Structure Docur			
006-010-706-4000-	•	MA-DCR	1972	Map C - 1972 Maste	
006-010-706-4000-		MA-DCR	July 1979	Boston Harbor Island	,
006-010-706-4000-1		MA-DCR	September 1	Boston Harbor Island	006-010-706-4000-100-DCR1C
006-010-706-4000-1					
006-010-706-4000-1	IVV-PHO1E.jpg				

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-5000-100

Property Owner:		Locatio	n:		Date:
State		Gallops 1	Island		7/26/2007
Presumed Structur	re Owner:	Based Or	n Comment:		,
State					
Owner Name:		# Earliest S	Structure Record:		Estimated Passactual (B. 10.0)
MA-DCR	100	1972	buructure Record:	-	Estimated Reconstruction/Repair Cost: \$6,085,035.00
J			v See Marie Control	J	φο,υου,υυυ
	levation: FIRM Map Zo				
1425		V2	25		
Feet Feet N	NAVD 88	Feet	t NGVD	No.	
Primary Type:	Primary Material:	Primary Heig	ht:		
Bulkhead/ Seawall	Stone	10 to 15 Fee	et	- S. S.	
Secondary Type:	Secondary Material:	Secondary H	leight:		
Revetment	Stone	5 to 10 Feet			
Structure Summan					AND THE PROPERTY OF THE PARTY O
by 2 feet in size.	riere are signs of stone mover	and is collapsed. Ti	he riprap in front	n size. The stones an has been placed with	e stacked 5 stones high. stones that average 3 feet by 3 feet
Condition	F		Priority	I .	
Rating	Critical		Rating	None	
Level of Action Description	Immediate Conditions of structure/landfo		Action		Planning Considerations
	emergency stabilization as far potential loss of property and eroded, loss of integrity. Strucritical levels of deterioration, cracking, spalling, undermini Structure provides little or no major coastal storm. Actions reconstruct structure to regai Landform stability is severely rate of erosion/material loss rand landform does not provide protection from a major coast taken to recreate landform to for full protection from a major	ailure may result in I/or life. Landform cture exhibits, section loss, ng, and/or scour. protection from a taken to totally in full capacity. If compromised, may be increasing, le adequate tal storm. Actions adequate limits	Descript	Units Prese	Structures or Residential Dwelling ant
Structure Image		Structure Docur			
006-010-706-5000-		MA-DCR	1972	Map C - 1972 Maste	
-000-c010-700-5000-	TOWARI W.	MA-DCR	January 197	Topographical	006-010-706-5000-100-DCR1B
		MA-DCR	July 1979	Boston Harbor Island	1
		MA-DCR	September 1	Boston Harbor Island	
		MA-DCR	February 19	Fire Damage Repair	
		MA-DCR	2/4/1997	Boston Harbor Island	006-010-706-5000-100-DCR1F

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-5000-200

Property Owner:		Locatio	on:		Date:
State	· · · · · · · · · · · · · · · · · · ·	Gallops 1			7/26/2007
Presumed Structur	re Owner:	ll Based Or	n Comment:		, ,
State		50500 01	Tr Comment.	·	
Owner Name:		J.			
MA-DCR		1972	Structure Record:		Estimated Reconstruction/Repair Cost: \$618,618.00
				Į.	\$010,010.00
	levation: FIRM M	ap Zone: FIRM Map E		NEW YORK	
1030		V4	12		
Feet Feet M	NAVD 88	Fee	et NGVD		
Primary Type:	Primary Materia		Toronto de la constitución de la		
Revetment	Stone	5 to 10 Feet	t		The state of the s
Secondary Type:	Secondary Mater	Secondary F	leight:	The same of the sa	THE PARTY OF THE P
1	1	1		A SECTION AS	The second
Structure Summar					een dumped approximately 30 feet
Condition Rating	reas of stone settlement a C Fair	ind Section loss.	Priority Rating	l None	
Level of Action	Moderate		Action		Planning Considerations
Description	Structure is sound but meterioration, section los undermining, and/or scoto withstand major coasi moderate damage. Actic structure to provide full proastal storm and for ex structure. Moderate win landform exists. Landfor to fully protect shoreline storm. Actions taken to praterial for full protection	es, cracking, spalling, our. Structure adequate tal storm with little to ons taken to reinforce orotection from major tending life of d or wave damage to m may not be sufficient during a major coastal provide addition	Descripti	On No Inshore S Units Preser	Structures or Residential Dwelling nt
Structure Image		Structure Docu	ments:		
006-010-706-5000-		MA-DCR	1972	Map C - 1972 Master	r 006-010-706-5000-200-DCR2A
006-010-706-5000-	200-PHO1B.jpg	MA-DCR		Topographical	006-010-706-5000-200-DCR2B
		MA-DCR	July 1979	Boston Harbor Island	
		MA-DCR		Boston Harbor Island	006-010-706-5000-200-DCR2D
		MA-DCR	February 19	Fire Damage	006-010-706-5000-200-DCR2E
		MA-DCR	2/4/1997	Boston Harbor	006-010-706-5000-200-DCR2F

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-5000-300

Key: community-map-block-parcel-structure

State		Loca	ation:		Date:
June		Gallo	ps Island		7/26/200
Presumed Structur	re Owner:	Base	d On Comment:		•
State	· · · · · · · · · · · · · · · · · · ·		·		
Owner Name:		, Earlie	est Structure Record:	Fo	timated Reconstruction/Repair Cost:
MA-DCR	- 1	1972			\$61,631.00
Length: Top E	Elevation: FIRM	Map Zone: FIRM Ma	ap Elevation:		
145		A2	10		
Feet Feet N	NAVD 88		Feet NGVD	Alastic describe.	Mary and the second second
Primary Type:	Primary Mater	ial: Primary	Height:	art of the same	
Bulkhead/ Seawall		Under 5			
Secondary Type:	Secondary Mat	erial: Seconda	ry Height:		
Structure Summan	v :	-		Chieff Control	
Level of Action Description	undermining, and/or s to withstand major coa moderate damage. Ac structure to provide fu	loss, cracking, spalling cour. Structure adequates the storm with little to train taken to reinforce the protections taken to reinforce the protection from major extending life of	ete		anning Considerations ructures or Residential Dwelling
	structure. Moderate w landform exists. Landf	form may not be suffici ne during a major coast o provide addition	ent tal		
Structure Image	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	form may not be sufficine during a major coast oprovide addition tion and extended life.	tal		
Structure Image 106-010-706-5000-	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	form may not be suffici ne during a major coast o provide addition	cuments:	Proposed Pier and	006-010-706-5000-300-COF3A
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	form may not be sufficine during a major coast oprovide addition tion and extended life. Structure Do	cuments:	Proposed Pier and Map C - 1972 Master	006-010-706-5000-300-COE3A
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	form may not be sufficine during a major coast of provide addition the light and extended life. Structure Do	cuments: May 5, 1975 F	Proposed Pier and Map C - 1972 Master	006-010-706-5000-300-DCR3A
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	orm may not be sufficine during a major coast oprovide addition tion and extended life. Structure Do USACE MA-DCR	cuments: May 5, 1975 F	Map C - 1972 Master	006-010-706-5000-300-DCR3A 006-010-706-5000-300-DCR3B
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	orm may not be sufficine during a major coast of provide addition tion and extended life. Structure Double USACE MA-DCR	cuments: May 5, 1975 Filter Filt	Map C - 1972 Master opographical	006-010-706-5000-300-DCR3A 006-010-706-5000-300-DCR3B 006-010-706-5000-300-DCR3C
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	Structure Do USACE MA-DCR MA-DCR	Cuments: May 5, 1975 Filter Filt	Map C - 1972 Master opographical Boston Harbor Island	006-010-706-5000-300-DCR3A 006-010-706-5000-300-DCR3B 006-010-706-5000-300-DCR3C 006-010-706-5000-300-DCR3D
	structure. Moderate w landform exists. Landf to fully protect shorelin storm. Actions taken t material for full protect	Structure Do USACE MA-DCR MA-DCR MA-DCR	Cuments: May 5, 1975 F 1972 N January 197 T July 1979 E September 1 E February 19 F	Map C - 1972 Master Opographical Boston Harbor Island Boston Harbor Island	006-010-706-5000-300-DCR3A 006-010-706-5000-300-DCR3B 006-010-706-5000-300-DCR3C

March 1999

April 1999

Boston harbor

Maintenance and

MA-DCR

MA-DCR

006-010-706-5000-300-DCR3H

006-010-706-5000-300-DCR3I

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-5000-300

Key: community-map-block-parcel-structure

DEP

October 197 Plan Accompanying

006-010-706-5000-300-LIC3A

Structure Assessment Form

Town: Boston
Structure ID: 006-010-706-5000-400

		Location			Date:
State		Gallops Is	land		7/26/2007
Presumed Structur	re Owner:	Based On	Comment:		ų.
State			<u> </u>		
Owner Name:		# Farliest Str	ructure Record:	Estim	ated Reconstruction/Repair Cost:
MA-DCR		1972	detaile Necold.	LSuiii	\$308,750.00
Length: Top E	Elevation: FIRM Map Zo	ne: FIRM Map Ele	evation:		
625		A2	10		
Feet Feet I	NAVD 88	Feet	NGVD		
Primary Type:	Primary Material:	Primary Heigh	nt:		
Breakwater	Stone	Over 15 Feet	AND THE RESIDENCE		
Secondary Type:	Secondary Material:	Secondary He	ight:	- Contract	
Structure Summar	v :				
The stone mound	breakwater consists of stones ti	hat are 4 feet by 3 fe	eet by 2 feet on average	e. The crest is 1 to	2 stones wide. There are signs
of minor stone mo	wement and settlement. The br	eakwater protects th	ne pier to the island.	, == 0.000, 0.000, 0.000	- There are signs
O 1'22	В		_		
Condition Rating	B Good		Priority	None	
Level of Action	Minor		Rating Action	None	ing Considerations
Description	Structure observed to exhibit	very minor	Description Description		tures or Residential Dwelling
-	problems, superficial in nature to landform is present. Struct adequate to provide protection coastal storm with no damage to prevent / limit future deterior life of structure.	ture / landform n from a major e. Actions taken	2 csc. pron	Units Present	
tructure Image	es:	Structure Docum	ents:		
		Structure Docum		C - 1972 Master 10	06-010-706-5000-400-DCR4A
06-010-706-5000-	400-PHO4A.jpg		1972 Map (06-010-706-5000-400-DCR4A 06-010-706-5000-400-DCR4B
06-010-706-5000-	400-PHO4A.jpg 400-PHO4B.jpg	MA-DCR	1972 Map (Janaruy 197 Topog	graphical 0	06-010-706-5000-400-DCR4B
06-010-706-5000-	400-PHO4A.jpg 400-PHO4B.jpg	MA-DCR MA-DCR	1972 Map 0 Janaruy 197 Topos July 1979 Bosto	graphical 0 n Harbor 0	
06-010-706-5000-	400-PHO4A.jpg [1 400-PHO4B.jpg [1	MA-DCR MA-DCR MA-DCR	July 1979 Bosto September 1 Bosto	graphical 0 n Harbor 0 n Harbor Island 0	06-010-706-5000-400-DCR4B 06-010-706-5000-400-DCR4C 06-010-706-5000-400-DCR4D
tructure Image 06-010-706-5000- 06-010-706-5000-	400-PHO4A.jpg	MA-DCR MA-DCR MA-DCR MA-DCR	Janaruy 197 Topog July 1979 Bosto September 1 Bosto February 19 Fire D	n Harbor 0 n Harbor Island 0 namage 0	06-010-706-5000-400-DCR4B 06-010-706-5000-400-DCR4C

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-5000-500

		Location	n:		Date:	
State		Gallops Is	sland			7/26/2007
Presumed Structur	re Owner:	Based On	Comment:		μ	
State					<u> </u>	
Owner Name:		! Farliest St	ructure Record:	E	stimated Reconstruction	on/Donnie Ceste
MA-DCR		1972	ducture Record.	Ë	sumateu keconstructi	\$274,903.00
Length: Top E	Elevation: FIRM Ma	ap Zone: FIRM Map Ele	evation:			
890		A2	10			
Feet Feet M	NAVD 88	Feet	NGVD		and the State Stat	A
Primary Type:	Primary Material	Primary Heigh	ht:	1000		100
Bulkhead/ Seawall		5 to 10 Feet				
Secondary Type:	Secondary Materi	al: Secondary He	eight:		Towns Land to the	3
Revetment	Stone	10 to 15 Feel	No.	THE REAL PROPERTY.		100
Structure Summan	v :	-				
	Good Minor		Rating Action	None Long Term Pi	lanning Consideration	s
Level of Action		nature. Minor erosion Structure / landform ection from a major mage. Actions taken	**	Long Term Pl	tructures or Resident	
Rating Level of Action Description	Minor Structure observed to exproblems, superficial in r to landform is present. adequate to provide prot coastal storm with no da to prevent / limit future di	nature. Minor erosion Structure / landform ection from a major mage. Actions taken	Action	Long Term Pl No Inshore Si	tructures or Resident	
Level of Action	Minor Structure observed to exproblems, superficial in reto landform is present. adequate to provide protocoastal storm with no dato prevent / limit future delife of structure.	nature. Minor erosion Structure / landform ection from a major mage. Actions taken	Action Description	Long Term Pl No Inshore Si	tructures or Resident	
Level of Action Description	Minor Structure observed to exproblems, superficial in reto landform is present. adequate to provide protocoastal storm with no dato prevent / limit future delife of structure.	nature. Minor erosion Structure / landform ection from a major mage. Actions taken eterioration and extend	Action Description	Long Term Pl No Inshore Si	tructures or Resident	al Dwelling
Level of Action Description cructure Image	Minor Structure observed to exproblems, superficial in reto landform is present. adequate to provide protocoastal storm with no dato prevent / limit future delife of structure.	nature. Minor erosion Structure / landform ection from a major mage. Actions taken eterioration and extend	Action Description nents:	Long Term Pl No Inshore Si Units Present	tructures or Resident	al Dwelling
Level of Action Description cructure Image	Minor Structure observed to exproblems, superficial in reto landform is present. adequate to provide protocoastal storm with no dato prevent / limit future delife of structure.	Structure Docum	Action Description nents: 1972 Mag January 197 Top	Long Term Pl No Inshore Si Units Present	ructures or Resident	al Dwelling -500-DCR5A -500-DCR5B
Level of Action Description cructure Image	Minor Structure observed to exproblems, superficial in reto landform is present. adequate to provide protocoastal storm with no dato prevent / limit future delife of structure.	Structure Docum Structure / Iandform ection from a major mage. Actions taken eterioration and extend Structure Docum MA-DCR	Action Description nents: 1972 Mag January 197 Top July 1979 Bos	Long Term Pl No Inshore Si Units Present	006-010-706-5000	-500-DCR5A -500-DCR5B -500-DCR5C

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-100

Property Owner:			Location	f			Date:
Local			Long Islan	nd	*		7/25/2007
Presumed Structur	re Owner:		Based On	Comment:			į.
Local							
Owner Name:			j Fordinat Ct				
Boston			1972	ructure Record:	-	Est	mated Reconstruction/Repair Cost: \$1,032,240.00
			ĮTIT.			1	\$1,032,270.00
	levation:	FIRM Map Zone:	FIRM Map Ele	····	(C)	ACA - A	
2000		V2		29			
Feet Feet I	NAVD 88		Feet I	NGVD			
Primary Type:		nary Material:	Primary Heigh	.,			
Bulkhead/ Seawal	l Stor	ne	Over 15 Feet		27.6	E	The second second
Secondary Type:	_	ndary Material:	Secondary He	ight:		TI ON DIRECT	MAN AND AND AND AND AND AND AND AND AND A
Revetment	Sto	ne	5 to 10 Feet				
Structure Summar							
The stone block se	eawall is made	e up of stones that ave es. The wall is 7 stone	rage 7 feet by 2	feet in size. T	he revetment	is made up	of dumped riprap with
pproximately 0.5	to I ton Stone	es. The Wall is 7 Stone	s nign with mild	a erosion at the	toe.		
Condition	В			Priority	III		
Rating	Good			Rating		derate Prior	itv
Level of Action	Minor			Action			ctive Project Improvement
Description	Structure ob	served to exhibit very	minor		List	•	
		uperficial in nature. Mi is present. Structure		Descript			res with potential for Damage and/or Limited
	adequate to	provide protection fro	m a major		Res	sidential Dw	ellings (<1 dwelling impacted /
		n with no damage. A limit future deterioration			100	feet of sho	reline)
	life of structi	ure.					
						- American	
tructure Image	es:	Stru	cture Docum	ents:			
06-010-706-7001-				1972	Map C - 197	'2 Master	006-010-706-7001-100-DCR1A
06-010-706-7001-				July 1979	Boston Harb		006-010-706-7001-100-DCR1B
		MA-I		September 1	Boston Harb		006-010-706-7001-100-DCR1C
		المهر		Lechrenine: 1	Inoson Land	טוואוכו וטנ	1000-010-100-1001-100-DCK1C
					,		

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-200

Property Owner:			Location				Date:	
Local			Long Islan	d				7/25/2007
Presumed Structure	e Owner:		Based On (Comment:			pl	
Local	<u> </u>				- 11			
Owner Name:			J For Part Co			_		
Boston			1972	ucture Record:		Est	timated Reconstructi	
			1372	noncession of American			11000	\$1,486,485.00
<u> </u>	levation: F	IRM Map Zone:	FIRM Map Ele	vation:	1	No		
2475		V4		14	ĺ	这些人	Mar.	
Feet Feet N	IAVD 88		Feet I	NGVD			The same of the sa	
Primary Type:	Primary N	Material:	Primary Heigh	t:		and the same		, page
Revetment	Stone		5 to 10 Feet				Water and	h
Secondary Type:	Secondary	/ Material:	Secondary Hei	ight:		THE PARTY OF	ALL STATES	
Structure Summary								
The dumped riprap	consists of stones	that are approxi	mately 4 feet by	2 feet by 2 fee	et in size.	The stones sta	art at mean high wat	ter and are
dumped to 20 feet	inshore. Bening t	ne stones is a nea	avily eroded coa	stai bank.				
Condition	С			Duiovitu		III		
Rating	Fair			Priority Rating		Moderate Prio	ritv	
Level of Action	Moderate			Action			ctive Project Improv	ement/
Description	Structure is soun					Listing		
	deterioration, sec undermining, and to withstand major moderate damag structure to provincoastal storm and structure. Moder landform exists. It to fully protect sh storm. Actions tal material for full pro-	I/or scour. Structuor coastal storm we. Actions taken of the full protection of for extending life ate wind or wave andform may no oreline during a noten to provide ad	rre adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Descripti		Infrastructure	ures with potential fo Damage and/or Limi wellings (<1 dwelling oreline)	ited
tructure Image 06-010-706-7001-2	200-PHO2A.jpg	MA-I		1972	*	1972 Master	006-010-706-7001	
06-010-706-7001-2		MA-I		July 1979		Harbor Island	006-010-706-7001	
06-010-706-7001-2		MA-I	JCR	September 1	Boston	larbor Island	006-010-706-7001	-200-DCR2C
06-010-706-7001-2	200-PHO2D.jpg			ŀ				

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-300

FIRM Map Zone: V2 Primary Material: Stone Secondary Material: mean high water to 20 feet. ate are is sound but may exhibit ration, section loss, cracking recommendation.	Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	on: 25 D	Estimated Reconstruction/Repair Cost \$109,771.00 by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority Consider for Active Project Improvement
FIRM Map Zone: V2 Primary Material: Stone Secondary Material: mean high water to 20 feet.	FIRM Map Elevation Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	on: 25 D es average 5 feet b	\$109,771.00 by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	FIRM Map Elevation Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	\$109,771.00 by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	FIRM Map Elevation Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	\$109,771.00 by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	FIRM Map Elevation Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	\$109,771.00 by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	FIRM Map Elevation Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	by 2 feet by 2 feet in size. Behind the stones is III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	III Moderate Priority
Primary Material: Stone Secondary Material: mean high water to 20 feek. ate	Feet NGV Primary Height: Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b	III Moderate Priority
Stone Secondary Material: mean high water to 20 feet. ate are is sound but may exhibit	Primary Height: Under 5 Feet Secondary Height:	es average 5 feet b	III Moderate Priority
Stone Secondary Material: mean high water to 20 feet. ate are is sound but may exhibit	Under 5 Feet Secondary Height: et inshore. The stone	es average 5 feet b <i>Priority</i> <i>Rating</i>	III Moderate Priority
Secondary Material: mean high water to 20 feet. ate are is sound but may exhibit	Secondary Height:	es average 5 feet b <i>Priority</i> <i>Rating</i>	III Moderate Priority
mean high water to 20 feet.	et inshore. The stone	es average 5 feet b <i>Priority</i> <i>Rating</i>	III Moderate Priority
k. ate ire is sound but may exhibi		Priority Rating	III Moderate Priority
k. ate ire is sound but may exhibi		Priority Rating	III Moderate Priority
k. ate ire is sound but may exhibi		Priority Rating	III Moderate Priority
ate ire is sound but may exhibi	it minor	Rating	Moderate Priority
re is sound but may exhibi	it minor	Rating	Moderate Priority
re is sound but may exhibi	it minor	Rating	Moderate Priority
re is sound but may exhibi	it minor	• • • • • • • • • • • • • • • • • • • •	·
	it minor		
	ng, spalling,	Description	Listing Inshore Structures with potential for
m exists. Landform may no protect shoreline during a Actions taken to provide ac	with little to to reinforce from major fe of damage to ot be sufficient major coastal ddition		Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)
D3A.jpg MA- D3B.jpg MA-	-DCR 197	72 Map (y 1979 Bosto	C - 1972 Master
	re. Moderate wind or wave m exists. Landform may no protect shoreline during a Actions taken to provide a all for full protection and exi Str D3A.jpg MA D3B.jpg MA	re. Moderate wind or wave damage to m exists. Landform may not be sufficient protect shoreline during a major coastal Actions taken to provide addition all for full protection and extended life. Structure Document O3A.jpg MA-DCR Jul	Structure Documents: MA-DCR July 1979 Bost

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-400

			Location:			Date:
Local			Long Island		·	7/25/2007
Presumed Structu	re Owner:		Based On C	omment:		J
Local						<u> </u>
Owner Name:			j			
Boston			Earliest Stru 1972	icture Record:		Estimated Reconstruction/Repair Cost:
			1-5/2			\$96,268.00
	levation: FIRM	M Map Zone:	FIRM Map Elev	ation:		
390		V2		29	ASSES.	
Feet Feet I	NAVD 88		Feet N	GVD		
Primary Type:	Primary Mat	erial:	Primary Height:			
Revetment	Stone		Over 15 Feet			
Secondary Type:	Secondary M	aterial:	Secondary Heig	ıht:		
					W-10-11-11	NAME OF THE OWNER OWNER OF THE OWNER O
Structure Summar						
he placed stones	are approximately 4 f	eet by 3 feet in	size and the du	mped riprap s	tones are approxima	tely 100 to 200 pounds. The
evetment starts a	t mean high water and	d protects the c	oastal bank.			
Condition	В					
Condition Rating	Good			Priority	 Moderate	Dringity
Level of Action	Minor			Rating Action	Moderate :	Priority for Active Project Improvement
Description	Structure observed t	o exhibit very m	inor	Action	Listing	of Worke Froject improvement
A	problems, superficia to landform is present adequate to provide coastal storm with no to prevent / limit futuration life of structure.	I in nature. Mino nt. Structure / I protection from o damage. Acti	or erosion andform a major ons taken	Descript	Infrastructi Residentia	ructures with potential for ure Damage and/or Limited Il Dwellings (<1 dwelling impacted / f shoreline)
				and the state of t		
		Struc	ure Docume	ents:		
		Struc		ents:	Map C - 1972 Mast	er 006-010-706-7001-400-DCR4A
			R 1		Map C - 1972 Mast Boston Harbor Islan	
tructure Image 06-010-706-7001-		MA-DO	CR 1	1972		nd 006-010-706-7001-400-DCR4B

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-500

Property Owner:			Locatio	n:		Date:
Local			Long Isla	ind		7/25/200
Presumed Structur	re Owner:		Based On	Comment:		9
ocal				- Commence		
Numor Na						
Owner Name: Boston			Earliest S	tructure Record:	_ <u>E</u> s	stimated Reconstruction/Repair Cost:
		William Try or will be a low or threating country	12,72			\$85,160.00
	levation:	FIRM Map Z		levation:		
345			V4	14		
Feet Feet I	NAVD 88		Feet	NGVD		
rimary Type:	_	rimary Material:	Primary Heig		1000	
Revetment	19	Stone	Over 15 Fee	t		
econdary Type:	_ Se	econdary Material:	Secondary H	eight:	- ASS - 171	THE REAL PROPERTY.
			1			
tructure Summar						I together. The structure is in front
f and behind a bi	ridge abutn	nent. There is mino	r scour at the toe.			_
Condition	В			Priority	III	
Rating	Good			Rating	Moderate Pri	ority
evel of Action	Minor			Action	Consider for A	Active Project Improvement
Description	problems to landfor adequate coastal s	e observed to exhib is, superficial in naturm is present. Strue to provide protectitorm with no dama tot / limit future deter ucture.	re. Minor erosion acture / landform on from a major	Descript	ion Inshore Struc	ctures with potential for Damage and/or Limited Iwellings (<1 dwelling impacted / noreline)
			Structure Docur			
				15	Map C - 1972 Master	006-010-706-7001-500-DCR5A
6-010-706-7001-	-500-PHO5		MA-DCR	1972		
6-010-706-7001-	-500-PHO5		MA-DCR	July 1979	Boston Harbor Island	006-010-706-7001-500-DCR5B
ructure Image 06-010-706-7001- 06-010-706-7001-	-500-PHO5		<u></u>			

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-600

Property Owner:		Location	n:	D:	ate:
Local		Long Isla			7/25/2007
Presumed Structur	re Owner:	,	Comment:	1	.,==,==
Local					
Owner Name:		Earliest S	tructure Record:	Estimated Reco	nstruction/Repair Cost:
Boston		1972			\$613,800.00
	levation: FIRM Map 2	one: FIRM Map El	evation:		
310		A2	10		
Feet Feet N	NAVD 88	Feet	: NGVD	- Carried	
Primary Type:	Primary Material:	Primary Heig	ht:		and the same of
Bulkhead/ Seawall	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Over 15 Fee		2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
Secondary Type:	Secondary Material:	Secondary H	eight:		
Structure Summary	<i>y</i> :				
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may deterioration, section loss, of		Priority Rating Action	V Immediate / Highest Priorit Consider For Immediate A Safety and Welfare Issues Critical Inshore Structures	ction Due to Public
	undermining, and/or scour. to withstand major coastal s moderate damage. Actions structure to provide full prote coastal storm and for extend structure. Moderate wind or landform exists. Landform in to fully protect shoreline dur storm. Actions taken to prov material for full protection an	Structure adequate torm with little to taken to reinforce ection from major ding life of wave damage to nay not be sufficient ing a major coastal ride addition	Descripti	Potential Inshore Structures Potential for Infrastructure High Density Residential D of structure may warrant et stabilization as failure may loss of property and/or life. impacted / 100 feet of shore	Damage and/or wellings Condition nergency result in potential (>10 dwellings
Structure Image		Structure Docum			
006-010-706-7001-		MA-DCR	1972		06-7001-600-DCR6A
06-010-706-7001-0	•	MA-DCR	July 1979		06-7001-600-DCR6B
06-010-706-7001-0	600-PHO6C.jpg	MA-DCR	September 1	Boston Harbor Island 006-010-70	06-7001-600-DCR6C

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-7001-700

Local		Locatio	n:		Date:
		Long Isla	and		7/25/2007
Presumed Structur	re Owner:	Based Or	Comment:		1
Local			<u> </u>		
Owner Name:		Earliest S	Structure Record:	F	stimated Reconstruction/Repair Cost:
Boston		1972			\$795,366.00
	Elevation: FIRM M	ap Zone: FIRM Map E	levation:		
585		A4	15		
Feet Feet M	NAVD 88	Fee	t NGVD		T T HE
imary Type:	Primary Materia	l: Primary Heig	ıht:		
ulkhead/ Seawall	Concrete	5 to 10 Feet			
econdary Type:	Secondary Mater	ial: Secondary H	eight:		PRESIDENCE OF THE PROPERTY OF
evetment	Stone	5 to 10 Feet			
ructure Summary	v :				The Parket No.
ating evel of Action escription	Fair Moderate Structure is sound but in deterioration, section los undermining, and/or sect to withstand major coas moderate damage. Active structure to provide full peoastal storm and for existructure. Moderate win landform exists. Landfor to fully protect shoreline storm. Actions taken to material for full protection	ss, cracking, spalling, bur. Structure adequate tal storm with little to ons taken to reinforce protection from major tending life of d or wave damage to m may not be sufficient during a major coastal provide addition	Priority Rating Action Descript	Listing ion Inshore Structure	Active Project Improvement ctures with potential for Damage and/or Limited Dwellings (<1 dwelling impacted /
	PS:	Structure Docur	nents:		A COMMITTED TO THE COMMITTED THE COMMITTED TO THE COMMITTED TO THE COMMITTED THE COMMITTED TO THE COMMITTED TO THE COMMITTED THE COMMITTED TO THE COMMITTED TO
ucture Image					1000 040 700 7004 700 7
	700-PHO7A.jpg	MA-DCR	1972	Map C - 1972 Master	1006-010-706-7001-700-DCR74
ructure Image 6-010-706-7001-7		MA-DCR MA-DCR	July 1979	Map C - 1972 Master Boston Harbor Island	006-010-706-7001-700-DCR7A 006-010-706-7001-700-DCR7B

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-8000-100

Property Owner:		Location:			Date:	
State		Lovell's Islan	d	<u> </u>		7/25/2007
Presumed Structur	re Owner:	Based On Co	mment:		•	
State				· · · · · · · · · · · · · · · · · · ·		
Owner Name:		Earliest Struc	ture Record:	Estimate	ed Reconstruction/	Repair Cost:
MA-DCR		Unkown				,487,178.00
Length: Top E	FIRM Map Zone:	FIRM Map Eleva	tion:	and the same of th	and the same of	
) [NAVD 88	Feet NG				
Primary Type:	Primary Material:	Primary Height:				
Revetment	Stone	5 to 10 Feet		-275	A == -	
Secondary Type:	Secondary Material:	Secondary Heigh	t:	正法。	(A)	
Coastal Beach	Sand	Under 5 Feet		stated transfer to a second		
Structure Summar	у:				HI (See S. E. HI)	
Condition Rating Level of Action Description	C Fair Moderate Structure is sound but may exhibi	t minor	Priority Rating Action Description	l None Long Term Planning No Inshore Structur		Dwelling
	deterioration, section loss, crackir undermining, and/or scour. Struct to withstand major coastal storm moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a storm. Actions taken to provide act material for full protection and extended.	ure adequate with little to to reinforce from major fe of d damage to bt be sufficient major coastal ddition		Units Present		
Structure Image		ucture Documer	nts:		The second secon	
006-010-706-8000- 006-010-706-8000-						
000-010-700-6000-	100-PHO18.jpg					

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-8000-200

		Location:		Date:	
State		Lovell's Island			7/25/2007
Presumed Structure	e Owner:	Based On Com	ment:	,	
State					****
Owner Name:		Earliest Structu	ure Record:	Estimated Reconstruct	tion/Repair Cost:
MA-DCR		Unkown			\$1,835,460.00
	evation: FIRM Map Zone:	FIRM Map Elevation			
1030	V4		13		
Feet Feet N	AVD 88	Feet NGV	D		
Primary Type: Bulkhead/ Seawall	Primary Material: Stone	Primary Height: 5 to 10 Feet		A second	
Secondary Type:	" Secondary Material:	Secondary Height			
Secondary Type:	- Jecondary Haterian	occordary resigne			
Structure Summary	:				
The stone block sea	awall has unraveled and failed exce	pt at the bottom. T	he stones are app	proximately 7 feet by 2 feet by 2 feet	in size.
	_				
Condition	F		Priority	Name	
Rating Level of Action	Critical Immediate		Rating Action	None Long Term Planning Consideration	one
Description	Conditions of structure/landform in emergency stabilization as failure potential loss of property and/or liferoded, loss of integrity. Structure critical levels of deterioration, sect cracking, spalling, undermining, an Structure provides little or no prote major coastal storm. Actions take reconstruct structure to regain full Landform stability is severely com rate of erosion/material loss may land landform does not provide adprotection from a major coastal straken to recreate landform to adec for full protection from a major coastal straken to recreate landform a major coastal straken to recreate landform to adec for full protection from a major coastal straken to recreate landform to adec	may result in fe. Landform exhibits tion loss, nd/or scour. ection from a n to totally capacity. upromised, be increasing, equate orm. Actions quate limits	Description	No Inshore Structures or Resider Units Present	ntial Dwelling
Structure Image 006-010-706-8000- 006-010-706-8000-	200-PHO2A.jpg	ucture Documen	ts:		

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-8000-300

Property Owner:		Location:		D	ate:
State	· · · · · · · · · · · · · · · · · · ·	Lovell's Island	Lovell's Island		
Presumed Structure	e Owner:	Based On Comm	ent:	1	
State					
Owner Name:		Torlingt Charles	Decoude	Estimated Dec	analous disco (Description)
MA-DCR		Earliest Structure Unkown	e Record:	Estimated Rec	\$2,502,720.00
A	A STORY OF THE STO				
ength: Top El	evation: FIRM Map Zone	FIRM Map Elevation	-		
	/ AVD 88	Feet NGVD			
Primary Type:	Primary Material:	Primary Height:			
Groin/ Jetty	Stone	10 to 15 Feet			Barriero
Secondary Type:	Secondary Material:	Secondary Height:		The second second	A TOWN THE PARTY OF THE PARTY O
occordary Type.	Secondary Material.	Secondary Height.			
Structure Summary	•	4			
Condition Rating Level of Action Description	Poor Major Structure exhibits advanced let deterioration, section loss, crac undermining, and/or scour. Structure during a major coastal s should be monitored until repairs/reconstruction can be in taken to reconstruct structure trapacity to resist a major coast Landform eroded, stability three Landform not adequate to providuring major coastal storm. Ac recreate landform to adequate protection from a major coastal	rels of fixing, spalling, ructure has ge and possible torm. Structure nitiated. Actions o regain full lal storm. attened. dide protection tions taken to limits for full	Priority Rating Action Description	None Long Term Planning Cons No Inshore Structures or Units Present	
tructure Image 06-010-706-8000-3 06-010-706-8000-3 06-010-706-8000-3	300-PHO3A.jpg 300-PHO3B.jpg	tructure Documents			
06-010-706-8000-3					
06-010-706-8000-3					

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-8000-400

		Location:		Date:
State		Lovell's Island		7/25/2007
Presumed Structur	e Owner:	Based On Com	ment:	•
State	. 			
Owner Name:		Earliest Structu	ıre Record:	Estimated Reconstruction/Repair Cost:
MA-DCR		Unkown		\$99,792.00
	levation: FIRM Map Zone:	FIRM Map Elevation		
300 Foot N	IAVD 88	1	12	
		Feet NGV	D	The second second second
Primary Type: Revetment	Primary Material: Stone	Primary Height: Under 5 Feet	<u>.</u> ,	
Secondary Type:		,		
econdary Type.	Secondary Material:	Secondary Height:	_	经工程的基础基础的基础的
Structure Summary	, .	•		
	riprap is along the edge of the bea	ch. The stones are	approximately 3 f	feet by 2 feet by 2 feet in size.
			.,, 3,	, =
Condition	С		Priority	Ī
Rating	Fair		Rating	None
Level of Action Description	Moderate Structure is sound but may exhibit		Action	Long Term Planning Considerations No Inshore Structures or Residential Dwelling
	deterioration, section loss, crackin undermining, and/or scour. Structuto withstand major coastal storm with moderate damage. Actions taken is structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of ully protect shoreline during a nistorm. Actions taken to provide ad material for full protection and extending the structure.	ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Description	Units Present
tructure Image 06-010-706-8000-		cture Document	s:	

Structure Assessment Form

Town: Boston
Structure ID: 006-010-706-8000-500

Key: community-map-block-parcel-structure	9
---	---

Property Owner:		Location:		Date:	
State		Lovell's Island	<u> </u>	Jacon	7/25/2007
Presumed Structur	re Owner:	Based On Cor	nment:	1	
State					
Owner Name:		Earliest Struct	ure Records	Estimated Research	
MA-DCR		Unkown	are record.	Estimated Reconstruction	\$141,372.00
425	Primary Material: Secondary Material:	FIRM Map Elevat Feet NG Primary Height: Under 5 Feet Secondary Height	12 VD		
Structure Summan The 200 to 300 po beach and adjacer	und stones are scattered along the	edge of the beach,	appears to be a d	umped stone revetment to prevent eros	ion of the
Condition Rating Level of Action Description	Fair Moderate Structure is sound but may exhibit deterioration, section loss, crackin undermining, and/or scour. Structut to withstand major coastal storm with moderate damage. Actions taken structure to provide full protection coastal storm and for extending life structure. Moderate wind or wave landform exists. Landform may not of fully protect shoreline during a nistorm. Actions taken to provide ad material for full protection and extending the structure.	g, spalling, ure adequate vith little to to reinforce from major e of damage to t be sufficient najor coastal dition	Priority Rating Action Description	I None Long Term Planning Considerations No Inshore Structures or Residentia Units Present	
Structure Image		cture Documen	ts:		

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-100

State Presumed Structure State Owner Name: MA-DCR	Owner:	George's Based Or	s Island n Comment:		1/30/20
State Owner Name:	Owner:	Based Oi	n Comment:		,
State Owner Name:					
		1973	Structure Record:	<u>. </u>	Estimated Reconstruction/Repair Cost
		12373			\$3,183,840.00
Length: Top Ele	vation: FIRM Map Z	one: FIRM Map E	levation:		
670		A2	10		
Feet Feet NA	VD 88	Fee	et NGVD		
Primary Type:	Primary Material:	Primary Heig	ght:	100 10 100 100	All Marie
Bulkhead/ Seawall	Stone	Over 15 Fee	et		
Secondary Type:	Secondary Material:	Secondary H	leight:		CAN LAND
					- 1-10h
Structure Summary :					damage to the wall. The stones have
	critical		Priority Rating	None	Planning Considerations
	Conditions of structure/landf	orm may warrant	Action Descript	_	Planning Considerations Structures or Residential Dwelling
e c c c c c c c c c c c c c c c c c c c	emergency stabilization as footential loss of property and proded, loss of integrity. Structical levels of deterioration cracking, spalling, underministructure provides little or no najor coastal storm. Actions econstruct structure to regal andform stability is severely ate of erosion/material loss and landform does not provide protection from a major coastaken to recreate landform to refull protection from a major full protection from a major	d/or life. Landform ucture exhibits in, section loss, ing, and/or scour. In protection from a staken to totally in full capacity. In a compromised, in a compromised, in a compromised, in a compromised in a compromise in a compromi		Units Pres	
Structure Images	1	Structure Docui	ments:		
06-010-706-9000-10		MA-DCR	May 1973	Seawall	006-010-706-9000-100-DCR1A
06-010-706-9000-10	•	MA-DCR	August 27, 1	George's Island	006-010-706-9000-100-DCR1B
00 040 700 5555	0-PHO1C.jpg	MA-DCR	May 5, 2000	George's Island	006-010-706-9000-100-DCR1C

Structure Assessment Form

Town: Boston
Structure ID: 006-010-706-9000-110

State		Location	1:		Date:	
, ale		George's 1	Island		1/30/2007	
Presumed Structur	re Owner:	Based On	Comment:		9	
State					<u> </u>	
wner Name:		il Farlinet St	ructure Record:		Ectimated Pasanstruct	tion/Donnie Costs
IA-DCR		1973	ructure Record.		Estimated Reconstruct	\$192,160.00
		J		4		
ngth: Top E	Elevation: FIRM Map Zo					
1		A2	10			
Feet Feet N	NAVD 88	Feet	NGVD	1		
imary Type:	Primary Material:	Primary Heigh	nt:			
oin/ Jetty	Stone	5 to 10 Feet				*
condary Type:	Secondary Material:	Secondary He	eight:			
						A STATE OF THE PARTY OF THE PAR
ructure Summary	y:					S.Cal
ating evel of Action escription	Moderate Structure is sound but may e deterioration, section loss, or undermining, and/or scour. S to withstand major coastal st moderate damage. Actions to structure to provide full prote	racking, spalling, structure adequate orm with little to aken to reinforce ction from major	Rating Action Description		Planning Consideration Structures or Resider Int	
	coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline durin storm. Actions taken to provi material for full protection and	wave damage to ay not be sufficient ng a major coastal de addition				
	coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline durin storm. Actions taken to provi	wave damage to ay not be sufficient ng a major coastal de addition				
ucture Image	coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline during storm. Actions taken to provimaterial for full protection and	wave damage to ay not be sufficient ng a major coastal de addition	nents:			
	coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline during storm. Actions taken to provimaterial for full protection and	wave damage to ay not be sufficient ng a major coastal de addition d extended life.		eawall	006-010-706-900	0-110-DCR11A
ructure Image 6-010-706-9000-	coastal storm and for extend structure. Moderate wind or landform exists. Landform m to fully protect shoreline during storm. Actions taken to provimaterial for full protection and exists.	wave damage to ay not be sufficient ng a major coastal de addition d extended life. Structure Docum	May 1973 Se	eawall eorge's Island	006-010-706-900	

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-120

State	Property Owner:		Location:		Date:		
State		George	George's Island		1/30/2007		
Presumed Structur	re Owner:	Based (On Comment:		II		
State		Duseu (on comment.		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Owner Name: MA-DCR			Earliest Structure Record:		Estimated Reconstruction/Repair Cost:		
MA-DCR		1973				\$79,695.00	
_ength: Top E	Elevation: FIRM Ma	ap Zone: FIRM Map	Elevation:				
525		A2	10				
Feet Feet N	NAVD 88	¹ F∈	eet NGVD				
Primary Type:	Primary Material	: Primary He	aight.			be.	
Bulkhead/ Seawall		5 to 10 Fe		11.			
Secondary Type:	Secondary Mater						
reconduty Type.	_ Secondary Mater	Secondary	neight.	1			
Christino Cummon		1					
Structure Summary The cast in place o	concrete wall is 2.5 feet w	ide with rinran in front	of it. The stones are	annrovimatoly 0 F	tone. There is mine-	cracking as the	
ace and top. The	riprap comes mid height outhern end of the wall.	of the wall. There is n	o visible scour. Some	of the riprap is lo	ose at the base of the	wall. There is 1	
Condition	В		Priority	1			
Rating	Good		Rating	None			
Level of Action	Minor		Action	Long Term	Planning Considerat	ions	
Description	Structure observed to exproblems, superficial in a to landform is present. adequate to provide processal storm with no dato prevent / limit future diffe of structure.	nature. Minor erosion Structure / landform tection from a major image. Actions taken	inor erosion / landform om a major ctions taken		No Inshore Structures or Residential Dwelling Units Present		
		Structure Doc					
06-010-706-9000-	120-PHO12A.jpg	MA-DCR	May 1973 S	eawall	006-010-706-90	00-120-DCR12A	
06-010-706-9000- 06-010-706-9000-	120-PHO12A.jpg 120-PHO12B.jpg	MA-DCR MA-DCR	May 1973 So August 27, 1 G	eawall eorge's Island	006-010-706-90		
Structure Image 106-010-706-9000- 106-010-706-9000-	120-PHO12A.jpg 120-PHO12B.jpg	MA-DCR	May 1973 Se August 27, 1 G			00-120-DCR12B	

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-130

State		Location	n:		Date:
1		George's	Island		1/30/2007
Presumed Structure	re Owner:	Based On	Comment:		
State			. <u> </u>		S. 11 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Owner Name:		 Farliect S	tructure Record:		Estimated Reconstruction/Repair Cost:
MA-DCR		1973	udctare Record.		\$545,490.00
Length: Top E	Elevation: FIRM Map Zo	ne: FIRM Map El	evation:		
435		A2	10		
Feet Feet N	NAVD 88	Feet	: NGVD		
Primary Type:	Primary Material:	Primary Heig	ht:		
Bulkhead/ Seawall	Stone	10 to 15 Fee			
Secondary Type:	Secondary Material:	Secondary H	eiaht:	1	
		,,,,		A Comment	
Structure Summary	, ,				Markey and the same
stones and the con Condition Rating Level of Action Description	ncrete is broken up. There is s C Fair Moderate Structure is sound but may e deterioration, section loss, cr	ome visible settling. xhibit minor	No signs of rota Priority Rating Action Descripts	IV High Priority Consider for High Value	
	undermining, and/or scour. S to withstand major coastal st moderate damage. Actions ta structure to provide full prote coastal storm and for extendi structure. Moderate wind or landform exists. Landform mato fully protect shoreline durir storm. Actions taken to provi material for full protection and	tructure adequate orm with little to aken to reinforce ction from major ng life of wave damage to ay not be sufficient ag a major coastal de addition		Density Res	sidential Dwellings (1-10 dwellings 100 feet of shoreline)
Structure Image	es:	Structure Docur	ments:		
		Structure Docur	ments: May 1973	Seawali	006-010-706-9000-130-DCR13A
Structure Image 006-010-706-9000- 006-010-706-9000-	130-PHO13A.j pg			Seawall George's Island	006-010-706-9000-130-DCR13A

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-140

Property Owner:		Locati	on:		Date:	
State		George	's Isl a nd			1/30/2007
Presumed Structur	e Owner:	Based (On Comment:		,	
State						
Owner Name:		j Farija at	Charles Barrel			
MA-DCR		1973	Structure Record:		Estimated Reconstru	\$265,650.00
					1	4203,030.00
	levation: FIRM	Map Zone: FIRM Map	Elevation:			
350		A2	10		(A (A (A (A (A (A (A (A (A (A	
Feet Feet N	IAVD 88	Fe	et NGVD			T-
Primary Type:	Primary Mate			1		The same of
Bulkhead/ Seawall	Stone	5 to 10 Fe	et			
Secondary Type:	Secondary Mat	erial: Secondary	Height:			
Structure Summary				10.10		
are 3 to 4 inch gar in front.	s between the stones.	es, but they average 2 fe The wall is partly concre	te set and partly d	ry set. There is a pa	th behind the wall and	d a coastal beach
Condition	С		Priority	1		
Rating	Fair		Rating	None		
Level of Action	Moderate		Action	Long Tem	Planning Considerat	tions
Description	undermining, and/or sto withstand major comoderate damage. Astructure to provide fuccoastal storm and for structure. Moderate valuadform exists. Land to fully protect shorelistorm. Actions taken to	loss, cracking, spalling, acour. Structure adequate astal storm with little to ctions taken to reinforce all protection from major extending life of wind or wave damage to form may not be sufficient during a major coastal	nt	Units Pres	e Structures or Reside ent	ential Dwennig
Structure Image		Structure Doc		[Socuell	1000 040 700 00	200 440 DOD444
006-010-706-9000-	•	MA-DCR	May 1973 August 27, 1	Seawall		00-140-DCR14A
006-010-706-9000-		MA-DCR	May 5, 2000	George's Island George's Island	006-010-706-90	00-140-DCR14B
2.2 , 33		lus 1-5017	וייים ט, 2000	Joeonge's Island	1000-010-700-90	00-140-LIC 14A

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-200

Property Owner:		Locat	tions		
State	<u> </u>	Locat	uon: je's Island		Date:
!!	ro Ourner	j			1/30/2007
Presumed Structur State	re Owner:	Based	On Comment:		
Jaie		1			
Owner Name:			t Structure Record	<u>:</u>	Estimated Reconstruction/Repair Cost:
MA-DCR		1973			\$298,800.00
Length: Top E	Elevation: FIRM Map	Zone: FIRM Mar	Elevation:		
450		V2	25		
Feet Feet	NAVD 88	F	eet NGVD		
Primary Type:	Primary Material:	Primary H	leight:		
Groin/ Jetty	Stone	Under 5 F	THE ART AND ADDRESS OF THE PARTY OF THE PART		
Secondary Type:	Secondary Material	: Secondary	/ Height:		
Structure Summar	y:				size. First groin is fully submerged at
Condition Rating Level of Action Description	Fair Moderate Structure is sound but may deterioration, section loss, undermining, and/or scour to withstand major coastal moderate damage. Actions structure to provide full procoastal storm and for exterior structure. Moderate wind landform exists. Landform to fully protect shoreline distorm. Actions taken to promaterial for full protection and the storm of the stor	cracking, spalling, Structure adequate storm with little to s taken to reinforce stection from major nding life of or wave damage to may not be sufficien uring a major coasta ovide addition	nt	None Long Ter	rm Planning Considerations ore Structures or Residential Dwelling esent
tructure Image		Structure Doc	uments:	Seawall	006-010-706-9000-200-DCR2A
06-010-706-9000-		MA-DCR	August 27, 1	George's Island	006-010-706-9000-200-DCR2A
		MA-DCR	May 5, 2000	George's Island	006-010-706-9000-200-DCR2B
			,	, 5	1

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-300

Property Owner:		Location:			Date:
State		George's Is	sland		1/30/2
Presumed Structur	re Owner:	Based On C	Comment:		,
State					
Owner Name:		Farliest Str	ucture Record:	Ec	timated Reconstruction/Repair Co
MA-DCR		1973	detare Record.		\$111,672
				1	
ength: Top E	Elevation: FIRM Map Zo	ve: FIRM Map Elev	vation:		Salar Party
1	NAVD 88				
		Feet N			
rimary Type: Bulkhead/ Seawal	Primary Material: Stone	Primary Height Over 15 Feet			
	•	1.			
econdary Type:	Secondary Material:	Secondary Heig	ght:		
	1	1		197	
tructure Summan		on and cottling of at-	oc. The face start	o and church the section	aligned. There is erosion at the e
the wall. The ri	prap at the base goes out to m	nean low water. The s	stones are approxim	nately 0.5 tons. The	ere is erosion behind the wall. In
				1	
ondition	В		Priority	l l	
	B Good		Priority Rating	None	
Rating Level of Action	Good Minor	very minor	Rating Action	Long Term Pl	anning Considerations
ating evel of Action	Good	e. Minor erosion cture / landform on from a major e. Actions taken	Rating	Long Term Pl	ructures or Residential Dwelling
Rating evel of Action	Good Minor Structure observed to exhibit problems, superficial in natur to landform is present. Structure adequate to provide protectio coastal storm with no damage to prevent / limit future deterior.	e. Minor erosion cture / landform on from a major e. Actions taken	Rating Action	Long Term Pl	ructures or Residential Dwelling
Rating Level of Action Description Tructure Image	Good Minor Structure observed to exhibit problems, superficial in naturato landform is present. Structure adequate to provide protectio coastal storm with no damage to prevent / limit future deterior life of structure.	e. Minor erosion cture / landform on from a major e. Actions taken	Rating Action Description	Long Term Pl	ructures or Residential Dwelling
Rating Level of Action Description ructure Image 6-010-706-9000-	Good Minor Structure observed to exhibit problems, superficial in naturato landform is present. Structure adequate to provide protectio coastal storm with no damage to prevent / limit future deterior life of structure.	e. Minor erosion cture / landform on from a major e. Actions taken oration and extend	Rating Action Description	Long Term Pl	ructures or Residential Dwelling
Condition Rating Level of Action Description ructure Image 6-010-706-9000-	Good Minor Structure observed to exhibit problems, superficial in naturato landform is present. Structure adequate to provide protectio coastal storm with no damage to prevent / limit future deterior life of structure.	e. Minor erosion cture / landform on from a major e. Actions taken oration and extend	Rating Action Description ents: May 1973 Sea	Long Term Pl No Inshore St Units Present	ructures or Residential Dwelling

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-400

Property Owner:		Location:			Date:
State		George's Is	land		1/30/200
Presumed Structu	re Owner:	Based On C	omment:		il and the second
State					
0		1			
Owner Name: MA-DCR			cture Record:	,	Estimated Reconstruction/Repair Cost:
THA DCK		1973			\$3,471,336.00
Length: Top	Elevation: FIRM Ma	p Zone: FIRM Map Elev	ation:	Page 1911	
540		V2	25	7	
Feet Feet	NAVD 88	Feet N	GVD	7	
Primary Type:	Primary Material	: Primary Height:	•		- American
Bulkhead/ Seawa		Over 15 Feet			
Secondary Type:	Secondary Materi		ht.		
Revetment	Stone	al: Secondary Heig Over 15 Feet	nc:	- Mary Land	N. M. C.
Structure Summar	,	10.0. 25.7000			
A ucture Surming	у.				
The 2 feet by 2 fe are many areas of vall that goes out	et by 2 feet stones are star ferosion and voids. There to mean low water. The r	cked 7 stones high forming is settling of stones. The tiprap stones are approximates.	itely 0.5 tons.	p of the wall is as a minor slop	approximately 20 feet wide. There be. There is riprap at the base of the
The 2 feet by 2 feare many areas of wall that goes out Condition Rating Level of Action	to mean low water. The r	ced levels of stories. The triprap stories are approximated levels of stories, cracking, spalling, ur. Structure has damage and possible astal storm. Structure I not be initiated. Actions cture to regain full coastal storm. The stories of the provide protection m. Actions taken to quate limits for full	on of the hillkhead h	ias a minor slop I None Long Term	Planning Considerations Structures or Residential Dwelling
The 2 feet by 2 feare many areas of wall that goes out Condition Rating Level of Action Description	Poor Major Structure exhibits advance deterioration, section los undermining, and/or scot strong risk of significant of failure during a major cos should be monitored untirepairs/reconstruction cataken to reconstruct struct capacity to resist a major Landform eroded, stabilit Landform not adequate to during major coastal ston recreate landform to adequate to protection from a major coastal ston recreate landform a major coastal ston recreate landform to adequate to the stability of the stabilit	ced levels of stories, The triprap stories are approximal ced levels of stories, cracking, spalling, ur. Structure has damage and possible astal storm. Structure lastal storm. Structure to regain full coastal storm. y threatened. To provide protection m. Actions taken to quate limits for full oastal storm.	ntely 0.5 tons. Priority Rating Action Description	as a minor stop I None Long Term No Inshore Units Prese	Planning Considerations Structures or Residential Dwelling
The 2 feet by 2 feare many areas of wall that goes out Condition Rating Level of Action Description	Poor Major Structure exhibits advance deterioration, section los undermining, and/or scor strong risk of significant of failure during a major coa should be monitored unti repairs/reconstruction ca taken to reconstruct struct capacity to resist a major Landform eroded, stabilit Landform not adequate to during major coastal stor recreate landform to adeq protection from a major coastal stor recreate landform a major coastal stor recreate landform to adequate to during major coastal stor recreate landform to	ced levels of stories, The triprap stories are approximal ced levels of stories, cracking, spalling, proceedings and possible astal storm. Structure In the initiated. Actions cture to regain full coastal storm. The stories of the s	ntely 0.5 tons. Priority Rating Action Description nts: May 1973 Seaw	as a minor stop I None Long Term No Inshore Units Prese	Planning Considerations Structures or Residential Dwelling ent
The 2 feet by 2 fe are many areas of	Poor Major Structure exhibits advance deterioration, section los undermining, and/or scot strong risk of significant of failure during a major cos should be monitored untirepairs/reconstruction cataken to reconstruct struct capacity to resist a major Landform eroded, stabilit Landform not adequate to during major coastal ston recreate landform to adequate to protection from a major coastal stonecreate landform a major coastal stonecreate landform to adequate to during major coastal stonecreate landform	ced levels of stories, The triprap stories are approximal ced levels of stories, cracking, spalling, ur. Structure has damage and possible astal storm. Structure in the initiated. Actions cture to regain full coastal storm. The coastal storm of the provide protection in the initiated of the coastal storm. Structure to regain full coastal storm. Structure Docume MA-DCR	nts: May 1973 Seaw	as a minor stop I None Long Term No Inshore Units Prese	Planning Considerations Structures or Residential Dwelling

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-500

Property Owner:		Locatio	on:		Date:
State		George'	s Island		1/30/2007
Presumed Structur	re Owner:	Based O	n Comment:		
State					The second secon
Owner Name:) Fadioct (Structure Record		Editorial Description (Description
MA-DCR		1973	Structure Record	<u>. </u>	Estimated Reconstruction/Repair Cost: \$257,400.00
		L.			1 4237, 100.00
	Elevation: FIRM Map			THE PERSON	MATERIAL STREET
65		V2	25		
Feet Feet I	NAVD 88	Fee	et NGVD		
Primary Type:	Primary Material:	Primary Hei	1.50 17		
Bulkhead/ Seawal	Stone	Over 15 Fe	et	2.46	
Secondary Type:	Secondary Material	Secondary I	leight:		
		1		i "	
Structure Summan					s 8 stones stepped then stacked
Rating Level of Action Description	Poor Major Structure exhibits advance deterioration, section loss, undermining, and/or scour strong risk of significant da failure during a major coas should be monitored until repairs/reconstruction can taken to reconstruct structicapacity to resist a major of Landform eroded, stability Landform not adequate to during major coastal storm recreate landform to adequate protection from a major coastal storm.	cracking, spalling, Structure has image and possible tal storm. Structure be initiated. Actions ure to regain full coastal storm. threatened. provide protection . Actions taken to uate limits for full	Rating Action Descript		n Planning Considerations e Structures or Residential Dwelling sent
Structure Image	es: 500-PHO 5A .jpg	Structure Docu	ments:	Seawall	006-010-706-9000-500-DCR5A

Structure Assessment Form

Town: **Boston**Structure ID: 006-010-706-9000-600

Property Owner:		Location:		Date:
State		George's Islar	nd	1/30/2007
Presumed Structu	re Owner:	Based On Con	nment:	•
State				
Owner Name:		Earliest Struct	ure Record:	Estimated Reconstruction/Repair Cost:
MA-DCR		1973	are Addord	\$803,550.00
Length: Top	Elevation EIDM May 7			į.
250 Top 1	Elevation: FIRM Map Zone		on: 25	CONTRACTOR SERVICE PROPERTY.
Feet Feet	NAVD 88	Feet NG\		Reserved to the second second
Primary Type:	Primary Material:	Primary Height:		
Bulkhead/ Seawa		Over 15 Feet		
Secondary Type:	Secondary Material:	Secondary Height	:	Jan Da Jan Jan Jan Jan Jan Jan Jan Jan Jan Ja
Revetment	Stone	Over 15 Feet		11/6-8
Structure Summar				
There are many p	oints on the top that have underm he riprap in front is approximately C	ined creating 20 feet	voids to halfway d	feet in size. The top of the wall is 15 feet wide. lown the wall. The face stones are okay. There is no ater.
Rating	Fair		Rating	, None
Level of Action	Moderate		Action	Long Term Planning Considerations
Description	Structure is sound but may exhi deterioration, section loss, crack undermining, and/or scour. Struto withstand major coastal storm moderate damage. Actions take structure to provide full protectio coastal storm and for extending structure. Moderate wind or wallandform exists. Landform may to fully protect shoreline during a storm. Actions taken to provide material for full protection and extending the storm of the sto	cing, spalling, cture adequate n with little to n to reinforce on from major life of ye damage to not be sufficient a major coastal addition	Description	No Inshore Structures or Residential Dwelling Units Present
Structure Imag 006-010-706-9000 006-010-706-9000	-600-PHO6A.jpg	ructure Documen	ts:	

Structure Assessment Form

Town: Boston

Structure ID: 006-010-706-9000-700

		Loca	tion:		Date:	
State		Georg	je's Island			1/30/2007
Presumed Structu	re Owner:	Based	On Comment:		1	
State						· · · · · · · · · · · · · · · · · · ·
Owner Name:		j Fortion	t Charles B			
MA-DCR	· · · · · · · · · · · · · · · · · · ·	1973	st Structure Record	<u>: </u>	Estimated Reconstruction/Re	epair Cost: 77,546.00
] **	77,370.00
	Elevation: FIRM Map		Elevation:			
315	1	V2	15			
Feet Feet I	NAVD 88	F	eet NGVD		and the latest the second	
Primary Type:	Primary Material:	Primary H				
Revetment	Stone	Over 15 F	eet	51		
Secondary Type:	Secondary Material	: Secondary	y Height:			
		I				
Structure Summar						
o 2 tons in size w	ith a 20 feet apron at a 1 or	1 slope. It looks a	s if the stones wer	ne time there were p e placed or moved ar	laced stones that were approxound to protect the area.	imately 1
Condition	D		Priority	I		
Rating	Poor		Rating	None		
Level of Action	Major		Action	Long Terr	n Planning Considerations	
Description	Structure exhibits advance deterioration, section loss, undermining, and/or scour strong risk of significant defailure during a major coas should be monitored until repairs/reconstruction can taken to reconstruct struct capacity to resist a major coastal tandform eroded, stability Landform not adequate to during major coastal storm recreate landform to adequate protection from a major coastal storm of the stability can be supposed to the stability can be sup	cracking, spalling, Structure has amage and possible stal storm. Structure be initiated. Actions ure to regain full coastal storm. threatened. provide protection Actions taken to uate limits for full	1	tion No Inshor Units Pres	e Structures or Residential Dv sent	velling
tructure Image 06-010-706-9000-		Structure Doc MA-DCR MA-DCR	cuments: May 1973 August 27, 1	Seawall George's Island	006-010-706-9000-700-	

Structure Assessment Form

Town: Boston
Structure ID: 006-010-706-9000-800

Property Owner:		Locat	tion:		Date:
State		Georg	e's Island		1/30/200
Presumed Structu	re Owner:	Based	On Comment:		*
State					
Owner Name:		J Soutine	4.Cht		
MA-DCR		1973	t Structure Record	_	Estimated Reconstruction/Repair Cost:
		123,3			\$376,200.00
	Elevation: FIRM Map	Zone: FIRM Map	Elevation:	Con.	
190		A2	10		
Feet Feet	NAVD 88	F	eet NGVD		
Primary Type:	Primary Material:	The same of the same of the same of	A SECTION AND ADDRESS OF THE PARTY OF THE PA	The state of the s	The state of the s
Bulkhead/ Seawal	Concrete	Over 15 F	eet	52	The second second
Secondary Type:	Secondary Materia	l: Secondary	/ Height:	7	
	1				
Structure Summar					
failure and riprap	loss at the southern end. T	he rest of the wall is	in good shape.	iii 3126. THE Wall IS C	on average 8 stones high. There is wall
Condition	С		Priority	1	
Rating	Fair		Rating	None	
Level of Action	Moderate Structure is sound but ma		Action		n Planning Considerations
Description	deterioration, section loss undermining, and/or scou to withstand major coasta moderate damage. Actior structure to provide full pr coastal storm and for exte structure. Moderate wind landform exists. Landform to fully protect shoreline of storm. Actions taken to pr material for full protection	of, cracking, spalling, cr. Structure adequate all storm with little to us taken to reinforce otection from major ending life of or wave damage to may not be sufficiently a major coastatovide addition	nt	Units Pres	e Structures or Residential Dwelling sent
Structure Image		Structure Doc	uments:	Securit	
	coc i i i coi cipy	MA-DCR	August 27, 1	Seawall	006-010-706-9000-800-DCR8A
		MA-DCR	May 5, 2000	George's Island George's Island	006-010-706-9000-800-DCR8B 006-010-706-9000-800-DCR8C
		Ing. 2017	way 5, 2000	Occurs a Island	1000-010-100-3000-800-DCK8C

Structure Assessment Form

Town: Boston
Structure ID: 006-010-706-9000-900

Property Owner:			Locatio	on:		Date:	
State			George's	s Island			1/30/200
Presumed Structure	e Owner	:	Based O	n Comment:			
State					<u> </u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
wner Name:			Earliest S	Structure Record:		Estimated Reconstru	ction/Renair Cost
DCR		210	1973		_		\$532,950.00
ength: Top E	levation:	FIRM Map Zo	one: FIRM Map E	levation:			
425			A2	10	The same		
Feet Feet N	IAVD 88		Fee	et NGVD	Samuel Comment	O. Carried Street	-
rimary Type:		Primary Material:	Primary Heig	ght:			
ulkhead/ Seawall		Stone	10 to 15 Fe			100	
econdary Type:		Secondary Material:	Secondary F	Height:	发展		
						1 1	
tructure Summary	, .		-				
		at are approximately	3 feet long by 2 fee	et in height by 2 f	eet wide. The cast in	nlace wall has a nati	a bobind it. The
Condition Cating	C Fair	nes have been set wel	Tana alere is no vis	Priority Rating	l None		
evel of Action	Modera	ite		Action	Long Term	Planning Considerat	ions
Description	deterior underm to withs modera structur coastal structur landfor to fully storm.	re is sound but may e ration, section loss, cr ining, and/or scour. S stand major coastal st the damage. Actions to the to provide full prote storm and for extend e. Moderate wind or m exists. Landform m protect shoreline during Actions taken to provided in the provided	racking, spalling, structure adequate orm with little to aken to reinforce ction from major ing life of wave damage to ay not be sufficient ng a major coastal de addition	Descript	Units Pres	e Structures or Reside	antial Dwening
ructure Image			Structure Docu				
06-010-706-9000-9		•	MA-DCR	May 1973	Seawall	006-010-706-90	
06-010-706-9000-9	900-PHC	0	MA-DCR	August 27, 1	George's Island	006-010-706-90	
			MA-DCR	May 5, 2000	George's Island	006-010-706-90	00-900-DCR9C

Structure Assessment Form

Town: **Boston**Structure ID: 006-010-707-4000-100

.ocal		Locat	ion:		Date:	
Local		Specta	acle Island			7/26/2007
resumed Structur	re Owner:	Based	On Comment:			
.ocal	· · · · · · · · · · · · · · · · · · ·					
wner Na me:		Farlies	t Structure Record:	Ec	timated Reconstructio	n/Penair Cost
Boston		1972	e ou detaile Record.	·	umateu Reconstructio	\$0.00
	Elevation: FIRM Map	Zone: FIRM Map	Elevation:			
1590		A2	25			
Feet Feet M	NAVD 88	F	eet NGVD			
rimary Type:	Primary Material:	Primary H		Media	and the second	
evetment	Stone	Over 15 F	eet	(1)		pt.,
econdary Type:	Secondary Material	Secondary	Height:			
	1	1				
ructure Summan						
ne placed stone r	revetment consists of stones	that are on average	e 3 feet by 2 feet in s	ize. They are at a 1 to	2 slope.	
ondition	Α		Priority	ł		
ating	Excellent		Rating	None		
evel of Action	None		Action	Long Term Pla	anning Considerations	i
Description	Like new condition. Structu withstand major coastal st Stable landform (beach, di Adequate system exists to from major coastal storm.	orm with <mark>out da</mark> mage une or bank).	Descriptio	n No Inshore St Units Present	ructures or Residentia	l Dwelling
		Structure Doc				
		MA-DCR	1972	Map C - 1972 Master	006-010-707-4000-	
ructure Image 6-010-707-4000-		MA-DCR MA-DCR	1972 July 1979 I	Boston Harbor Island	006-010-707-4000-	I00-DCR1B
		MA-DCR MA-DCR MA-DCR	1972 July 1979 September 1	Boston Harbor Island Boston Harbor Island	006-010-707-4000- 006-010-707-4000-	00-DCR1B
		MA-DCR MA-DCR	1972 July 1979 September 1	Boston Harbor Island	006-010-707-4000-	00-DCR1B
		MA-DCR MA-DCR MA-DCR	1972 July 1979 September 1	Boston Harbor Island Boston Harbor Island	006-010-707-4000- 006-010-707-4000-	00-DCR1B
		MA-DCR MA-DCR MA-DCR	1972 July 1979 September 1	Boston Harbor Island Boston Harbor Island	006-010-707-4000- 006-010-707-4000-	00-DCR1B

Structure Assessment Form

Town: Boston

Structure ID: 006-010-707-4000-200

Local		Location:			Date:
Drogumed Charle		Spectacle 1	sland	ing the second of the second o	7/26/200
Presumed Structure	e Owner:	Based On (Comment:		ja
Local					the state of the s
Owner Name:		j Fortioat Str	uetrus Danaudi	Estimate a	Decemberation ID 11 C 1
Boston		1972	ucture Record:	Estimated	Reconstruction/Repair Cost: \$237,237.00
					\$257,257.00
	levation: FIRM Map Zone:	FIRM Map Ele		The state of the s	
395	V2	1	28		
Feet Feet N	IAVD 88	Feet N	IGVD		A Street
Primary Type:	Primary Material:	Primary Heigh	<u>t:</u>		100 miles
Revetment	Stone	5 to 10 Feet			1. 1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
Secondary Type:	Secondary Material:	Secondary Hei	ght:		The second
Coastal Beach	Stone	Under 5 Feet			
Structure Summary	consists of stones that are approx				
Condition	of a coastal bank with a beach in	ITONE OF IE.	Priority	I	
Rating	Fair		Rating	None	
Level of Action	Moderate		Action	Long Term Planning	Considerations
Description	Structure is sound but may exhib deterioration, section loss, cracki undermining, and/or scour. Structo withstand major coastal storm moderate damage. Actions taker structure to provide full protectior coastal storm and for extending listructure. Moderate wind or wavelandform exists. Landform may n to fully protect shoreline during a storm. Actions taken to provide a material for full protection and ex	ng, spalling, ture adequate with little to to reinforce i from major fe of de damage to ot be sufficient major coastal ddition	Descripti	Units Present	s or Residential Dwelling
'herreda une Tono					
		ucture Docum		Man C. 1972 Master 1999	240 707 4000 200 DODGA
	200-PHO2A.jpg MA	-DCR	1972	<u>'</u>	010-707-4000-200-DCR2A
Structure Image 006-010-707-4000-2	200-PHO2A jpg MA	-DCR -DCR		Boston Harbor Island 006-	010-707-4000-200-DCR2A 010-707-4000-200-DCR2B 010-707-4000-200-DCR2C

Structure Assessment Form

Town: Boston

Structure ID: 006-010-707-4000-300

		Location:			Date:
Local		Spectade Is	sland		7/26/2007
Presumed Structu	re Owner:	Based On Co	omment:		r
Local			<u> </u>		
Owner Name:		" Earliest Stru	cture Record:	Estima	ted Reconstruction/Repair Cost:
Boston		1972			\$0.00
Length: Top I	Elevation: FIRM Map 2	one: FIRM Map Elev	ation:		
850		A2	10		
Feet Feet	NAVD 88	Feet N	GVD	THE PARTY OF	
Primary Type:	Primary Material:	Primary Height:	1		
Bulkhead/ Seawal		10 to 15 Feet			
Secondary Type:	Secondary Material:	Secondary Heig	iht:		
Revetment	Stone	5 to 10 Feet			
Structure Summar	v ·				
the structure. The	eawaii nas stones that average ere is a walkway on top filled v are on average 4 feet by 3 fee	with gravel. There are 5	eet in size. There is 5 visible courses. At	a sand beach in front the end of the structu	and a buliding and park behind re is a small area of dumped
Condition	A	at by 2 real in size.	Priority	V	
Rating	Excellent		Rating	Immediate / Highe	est Priority
Level of Action	None		Action		ediate Action Due to Public
Description	Like new condition. Structur	e expected to		Safety and Welfar	
	withstand major coastal stor Stable landform (beach, dur Adequate system exists to p from major coastal storm.	ne or bank).	Description	Potential for Infras High Density Resi of structure may w stabilization as fai	ructures Present with structure Damage and/or dential Dwellings Condition starrant emergency lure may result in potential ad/or life. (>10 dwellings et of shoreline)
tructure Imao	es:	Structure Docume	ents:		
tructure Imag 06-010-707-4000		Structure Docume		C - 1972 Master 00	6-010-707-4000-300-DCR3A
06-010-707-4000	-300-PHO3A.jpg	MA-DCR	1972 Map		06-010-707-4000-300-DCR3A 06-010-707-4000-300-DCR3B
	-300-PHO3A.jpg -300-PHO3B.jpg	MA-DCR MA-DCR	1972 Map July 1979 Bosto	on Harbor Island 00	6-010-707-4000-300-DCR3B
06-010-707-4000 06-010-707-4000 06-010-707-4000	-300-PHO3A.jpg -300-PHO3B.jpg -300-PHO3C.jpg	MA-DCR AMA-DCR MA-DCR	Map July 1979 Bosto September 1 Bosto	on Harbor Island 00	6-010-707-4000-300-DCR3B 6-010-707-4000-300-DCR3C
06-010-707-4000 06-010-707-4000	-300-PHO3A.jpg -300-PHO3B.jpg -300-PHO3C.jpg	MA-DCR MA-DCR MA-DCR MA-DCR	Map Map	on Harbor Island 000 on Harbor Island 000 oachusetts 000	6-010-707-4000-300-DCR3B 6-010-707-4000-300-DCR3C 6-010-707-4000-300-DCR3D
06-010-707-4000 06-010-707-4000 06-010-707-4000	-300-PHO3A.jpg -300-PHO3B.jpg -300-PHO3C.jpg	MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR MA-DCR	Map Map	on Harbor Island 000 on Harbor Island 000 sachusetts 000 sachusetts 000	6-010-707-4000-300-DCR3B 6-010-707-4000-300-DCR3C

Structure Assessment Form

Town: Boston

Structure ID: 006-010-707-4000-400

Property Owner:			Locatio	on:		Date:	
Local			Spectac	le Island			7/26/200
Presumed Structur	e Owner	:	Based O	n Comment:		,	
_ocal							
wner Name:			 Farliest	Structure Record:		Entimented Description	alia - ID - a · · · · · ·
Boston			1972	Sulucture Record		Estimated Reconstru	
			1-7/2		PP NO. 201	J	\$26,598.00
ength: Top E	levation:	FIRM Map Zon	e: FIRM Map E	Elevation:			
130			A2	10			
Feet Feet N	NAVD 88		Fee	et NGVD	STOP II	THE RESERVE	
imary Type:		Primary Material:	Primary Hei	ght:		TA LIA	
ulkhead/ Seawall		Concrete	Under 5 Fe	The same of the sa	BILL STOR	4	
econdary Type:		Secondary Material:	Secondary I	leight:	1.2	The state of the s	ne e
evetment		Stone	5 to 10 Fee				
ructure Summary	, .	ye.	-				70 × 20
ating evel of Action Pescription	problem to landf adequa coastal	re observed to exhibit vals, superficial in nature. orm is present. Structive to provide protection storm with no damage. ent / limit future deterior	Minor erosion ure / landform from a major Actions taken	Rating Action Descript		n Planning Considerat e Structures or Reside ent	
ructure Image	>5°		tructure Docu	mente			
6-010-707-4000-4			A-DCR	1972	Map C - 1972 Mass	ter 006-010-707-40	00-400-DCB4A
6-010-707-4000-4			A-DCR	July 1979	Boston Harbor Isla		
		,, ,	IA-DCR	September 1	Boston Harbor Isla		
		<u>'</u>	IA-DCR	September 2	Spectacle Island		
		<u>'</u>	IA-DCR	2/18/2002	Massachusetts	006-010-707-400	
		<u> </u>	IA-DCR			006-010-707-400	
		IN.	M-DCK	1993	Massachusetts	006-010-707-400	00-400-DCR4F

Section VI - Harbor Islands

Part C

Structure Photographs



CITY: BOSTON - HARBOR ISLANDS SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: JULY 2007

Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Conditon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Description Structure Location Sheets -_ _ _ _ _ _ _ DIGITAL IMAGE Title June 2007 June 2007 June 2007 June 2007 June 2007 June 2007, June 2007 Date Municipality Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering
Bourne
Consulting
Engineering
Engineering Contract/ Drawing Number 006-010-706-4000-100-PHO1A.Jpg 006-010-706-4000-100-PHO1C.jpg 006-010-706-4000-100-PHO1D.Jpg 006-010-706-4000-100-PHO1E.jpg 006-010-706-5000-200-PHO1A.jpg 006-010-706-5000-200-PHO1B.Jpg 006-010-706-5000-300-PHO1A.jpg 006-010-706-5000-400-PHO4B.Jpg 006-010-706-7001-300-PHO3C.jpg 006-010-706-4000-100-PHO1B.lpg 006-010-706-5000-100-PHO1A.jpg 006-010-706-5000-400-PHO4A.Jpg 006-010-706-5000-500-PHO5B.jpg 006-010-706-7001-100-PHO1A.jpg 006-010-706-7001-100-PHO1C.Jpg 006-010-706-7001-200-PHO2A.jpg 006-010-706-7001-200-PHO2B.jpg 006-010-706-7001-200-PHO2C.Jpg 006-010-706-7001-200-PHO2D.Jpg 006-010-706-7001-300-PHO3A.Jpg 006-010-706-7001-300-PHO3B.jpg 006-010-706-7001-100-PHO1B.Jpg **Document No** 006-010-706-4000-100 006-010-706-4000-100 006-010-706-4000-100 006-010-706-4000-100 006-010-706-4000-100 006-010-706-5000-100 006-010-706-5000-200 006-010-706-5000-200 006-010-706-5000-500 006-010-706-7001-100 006-010-706-7001-100 006-010-706-7001-100 006-010-706-7001-200 006-010-706-7001-200 006-010-706-7001-200 006-010-706-7001-300 006-010-706-5000-300 006-010-706-5000-400 006-010-706-5000-400 006-010-706-7001-200 006-010-706-7001-300 006-010-706-7001-300 BCE Structure No

CITY: BOSTON - HARBOR ISLANDS SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: JULY 2007

Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Conditon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condton Photo at Time of Survey Structure Condtion Photo at Time of Survey Description Structure Location Sheets -_ _ _ _ _ DIGITAL IMAGE JIGITAL IMAGE JIGITAL IMAGE DIGITAL IMAGE Title June 2007 Date Municipality Engineering
Bourne
Consulting
Engineering
Engineering Boume
Consulting
Engineering
Boume
Consulting
Engineering
Boume
Consulting
Engineering
Boume
Consulting Engineering Boume Consulting Engineering
Bourne
Consulting
Engineering
Bourne
Consulting
Engineering Entity Contract/ Drawing Number 006-010-706-7001-400-PHO4A.jpg 006-010-706-7001-500-PHO5A.Jpg 006-010-706-7001-500-PHO5B.Jpg 006-010-706-7001-600-PHO6A.jpg 006-010-706-7001-600-PHO6B.Jpg 006-010-706-7001-600-PHO6C.Jpg 006-010-706-7001-700-PHO7A.Jpg 006-010-706-7001-700-PHO7B.Jpg 006-010-706-8000-100-PHO1A.jpg 006-010-706-8000-100-PHO1B.jpg 006-010-706-8000-200-PHO2A.Jpg 006-010-706-8000-300-PHO3A.Jpg 006-010-706-8000-300-PHO3B.jpg 006-010-706-8000-300-PHO3C.jpg 006-010-706-8000-300-PHO3D.Jpg 006-010-706-8000-400-PHO4A.jpg 006-010-706-9000-100-PHO1B.Jpg 006-010-706-8000-200-PHO2B.lpg 006-010-706-8000-300-PHO3E.Jpg 006-010-706-8000-500-PHO5A.Jpg 006-010-706-9000-100-PHO1A.Jpg Document No 006-010-706-7001-400 006-010-706-7001-500 006-010-706-7001-500 006-010-706-7001-600 006-010-706-7001-600 006-010-706-7001-600 006-010-706-7001-700 006-010-706-7001-700 006-010-706-8000-100 006-010-706-8000-100 006-010-706-8000-200 006-010-706-8000-200 006-010-706-8000-300 006-010-706-8000-300 006-010-706-8000-300 006-010-706-8000-300 006-010-706-8000-300 006-010-706-8000-400 006-010-706-9000-100 006-010-706-8000-500 006-010-706-9000-100 **BCE Structure No**

Structure Condition Photo at Time of Survey

Structure Location

-

DIGITAL IMAGE

June 2007

006-010-706-9000-100-PHO1C.jpg

006-010-706-9000-100

CITY: BOSTON - HARBOR ISLANDS SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: JULY 2007

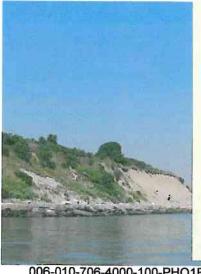
BCE Structure No	Document No	Contract/ Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
006-010-706-9000-110	006-010-706-9000-110-PHO11A.jpg	Number	Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
006-010-706-9000-120	006-010-706-9000-120-PHO12A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-120	006-010-706-9000-120-PHO12B.Jpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Conditon Photo at Time of Survey
006-010-706-9000-120	006-010-706-9000-120-PHO12C.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-130	006-010-706-9000-130-PHO13A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-130	006-010-706-9000-130-PHO13B.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-130	006-010-706-9000-130-PHO13C.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Conditon Photo at Time of Survey
006-010-706-9000-140	006-010-706-9000-1300-PHO14A.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
006-010-706-9000-140	006-010-706-9000-1300-PHO14B.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-140	006-010-706-9000-1300-PHO14C.Jpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
006-010-706-9000-200	006-010-706-9000-200-PHO2A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Conditon Photo at Time of Survey
006-010-706-9000-200	006-010-706-9000-200-PHO2B.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-300	006-010-706-9000-300-PHO3A.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Conditon Photo at Time of Survey
006-010-706-9000-300	006-010-706-9000-300-PHO3B,lpg		Boume Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-400	006-010-706-9000-400-PHO4A.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-400	006-010-706-9000-400-PHO4B.Jpg		Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-400	006-010-706-9000-400-PHO4C.jpg		Bourne Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-500	006-010-706-9000-500-PHO5A.jpg		Boume Consulting Engineering	-	June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
006-010-706-9000-500	006-010-706-9000-500-PHO5B.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condtion Photo at Time of Survey
006-010-706-9000-500	006-010-706-9000-500-PHO5C.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-600	006-010-706-9000-600-PHO6A.Jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey
006-010-706-9000-600	006-010-706-9000-600-PHO6B.jpg		Bourne Consulting Engineering		June 2007	DIGITAL IMAGE	-	Structure Location	Structure Condition Photo at Time of Survey

CITY: BOSTON - HARBOR ISLANDS SOURCE: BCE - FIELD PHOTOGRAPHS LOCATION: Bourne Consulting Engineering DATE OF RESEARCH: JULY 2007

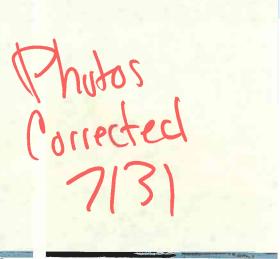
Structure Condtion Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtlon Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condtion Photo at Time of Survey Structure Condition Photo at Time of Survey Structure Condtion Photo at Time of Survey Description Structure Location Location DIGITAL IMAGE Titte June 2007 Date Municipality Bourne
Consulting
Engineering
Consulting
Consulting
Engineering
Consulting
Consulting
Engineering
Consulting
Engineering
Consulting
Consulting
Engineering
Consulting
Consulting
Engineering
Consulting
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Consulting
Engineering
Engineeri Contract/ Drawing Number 006-010-706-9000-700-PHO7A.jpg 006-010-706-9000-700-PHO7B.jpg 006-010-706-9000-800-PHO8A.Jpg 006-010-706-9000-900-PHO9A.Jpg 006-010-706-9000-900-PHO9B.jpg 006-010-707-4000-200-PHO2A.Jpg 006-010-707-4000-300-PHO3A.jpg 006-010-707-4000-300-PHO3B.Jpg 006-010-707-4000-300-PHO3C.Jpg 006-010-707-4000-300-PHO3D.jpg 006-010-707-4000-400-PHO4A.jpg 006-010-707-4000-100-PHO1A.Jpg 006-010-707-4000-400-PHO4B.Jpg Document No 006-010-706-9000-700 006-010-706-9000-700 006-010-706-9000-800 006-010-706-9000-900 006-010-707-4000-100 006-010-707-4000-300 006-010-707-4000-300 006-010-707-4000-400 006-010-707-4000-400 006-010-706-9000-900 006-010-707-4000-200 006-010-707-4000-300 006-010-707-4000-300 **BCE Structure No**



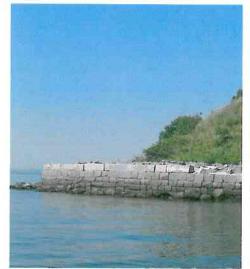




006-010-706-4000-100-PHO1B



006-010-706-4000-100-PHO1C



006-010-706-4000-100-PHO1D



006-010-706-4000-100-PHO1E



006-010-706-5000-100-PHO1A



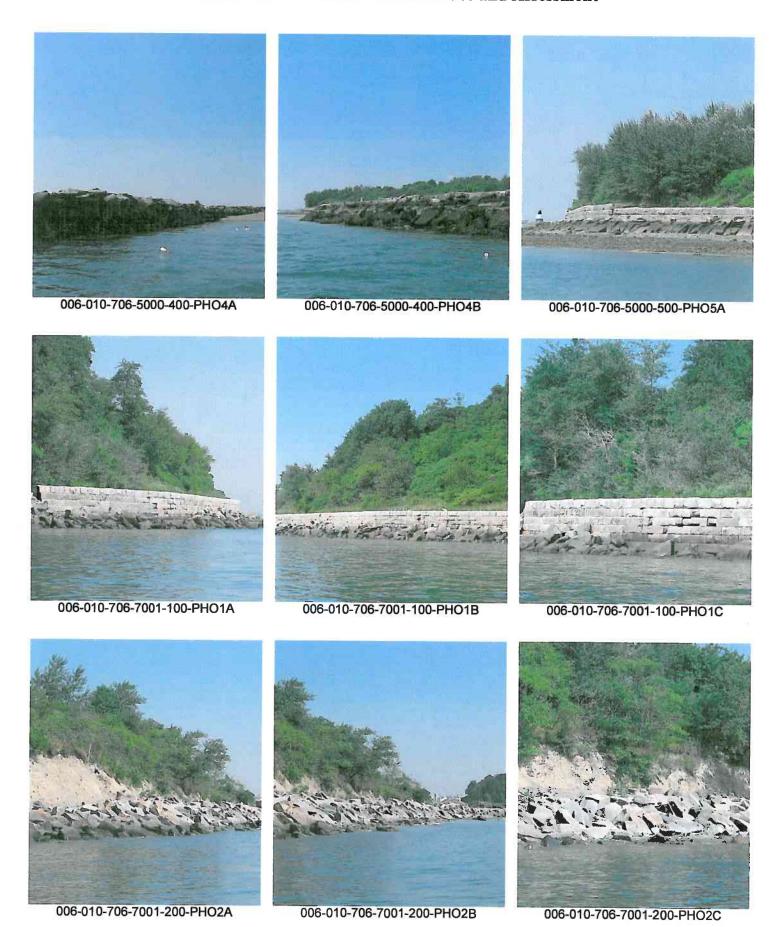
006-010-706-5000-200-PHO2A

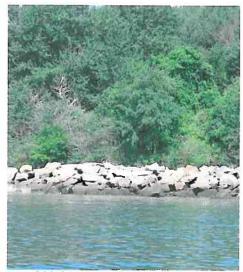


006-010-706-5000-200-PHO2B



006-010-706-5000-300-PHO3A

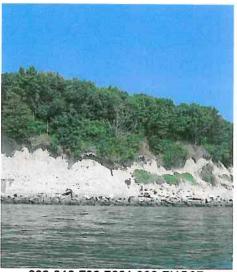




006-010-706-7001-200-PHO2D



006-010-706-7001-300-PHO3A



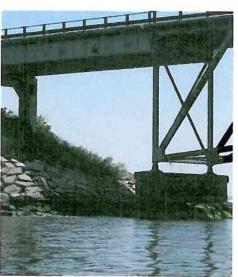
006-010-706-7001-300-PHO3B



006-010-706-7001-300-PHO3C



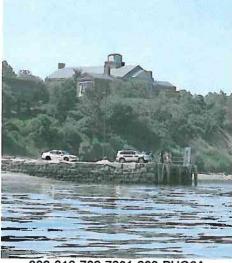
006-010-706-7001-400-PHO4A



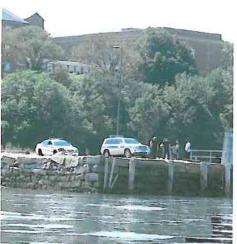
006-010-706-7001-500-PHO5A



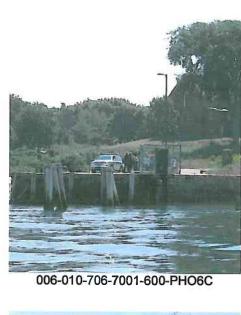
006-010-706-7001-500-PHO5B



006-010-706-7001-600-PHO6A



006-010-706-7001-600-PHO6B





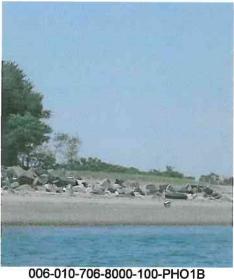
006-010-706-7001-700-PHO7A



006-010-706-7001-700-PHO7B

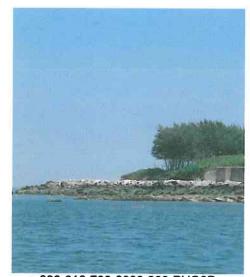


006-010-706-8000-100-PHO1A

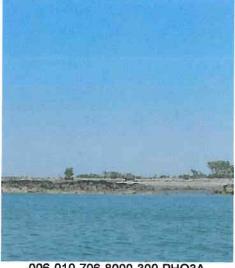




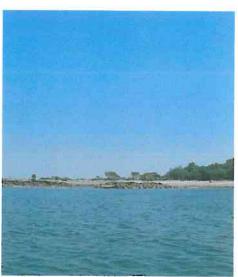
006-010-706-8000-200-PHO2A



006-010-706-8000-200-PHO2B

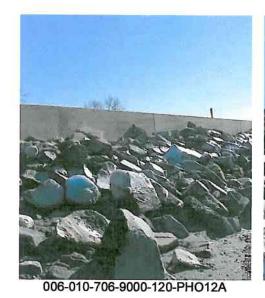


006-010-706-8000-300-PHO3A



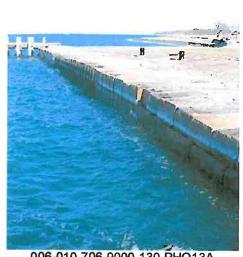
006-010-706-8000-300-PHO3B

















006-010-706-9000-130-PHO13B

006-010-706-9000-130-PHO13C



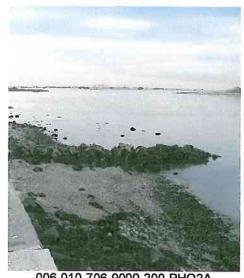




006-010-706-9000-140-PHO14A

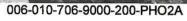
006-010-706-9000-140-PHO14B

006-010-706-9000-140-PHO14C







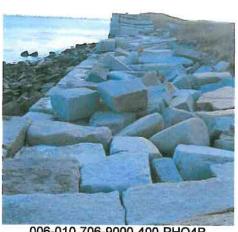


006-010-706-9000-200-PHO2B

006-010-706-9000-300-PHO3A







006-010-706-9000-300-PHO3B

006-010-706-9000-400-PHO4A

006-010-706-9000-400-PHO4B



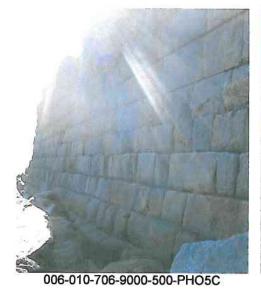




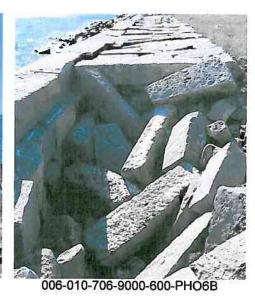
006-010-706-9000-400-PHO4C

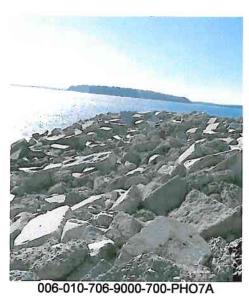
006-010-706-9000-500-PHO5A

006-010-706-9000-500-PHO5B



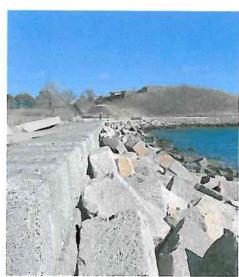




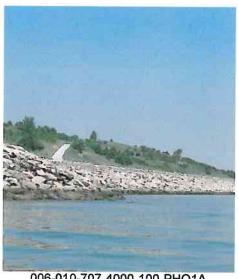












006-010-706-9000-900-PHO9B

006-010-707-4000-100-PHO1A



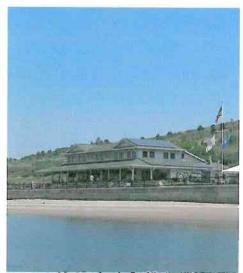




006-010-707-4000-300-PHO3A



006-010-707-4000-300-PHO3B



006-010-707-4000-300-PHO3C



006-010-707-4000-300-PHO3D



006-010-707-4000-400-PHO4A



006-010-707-4000-400-PHO4B

Section VI - Harbor Islands

Part D

Structure Documents

CITY DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP - Ch 91 DOCUMENT LIST

• Copies of License Documents

USACE – PERMIT DOCUMENT LIST

• Copies of Permit Documents



No City Documents for the Boston Harbor Islands

CITY: BOSTON - HARBOR ISLANDS SOURCE: City of Boston LOCATION: CITY DATE OF RESEARCH: JULY 2007

E Structure No Document No Drawing Entity Municipality Date			
Number	Title Sheets	Location	Description

CITY: BOSTON - HARBOR ISLANDS SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract/ Drawing	Entity	Municipality	Date	TIVE	Sheets	Location	Description
006-010-706-4000-100	006-010-706-4000-100-DCB1A	N/A	MA-DOB	Boston	1873	Map C - 1972 Master Plan Boston Harbor	:		
			NO COLONIA	ioison	1312	Islands	<u>+</u>		
006-010-706-4000-100	006-010-706-4000-100-DCR1B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	21		
006-010-706-4000-100	006-010-706-4000-100-DCR1C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-5000-100	006-010-706-5000-100-DCR1A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-5000-100	006-010-706-5000-100-DCR1B	884-7	MA-DCR	Boston	Jenuary 1978	Topographical Survey - Boston Harbor Island State Park	4	Gallop's Island	
006-010-706-5000-100	006-010-706-5000-100-DCR1C	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-5000-100	006-010-706-5000-100-DCR1D	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-5000-100	006-010-706-5000-100-DCR1E 006-010-706-5000-100-DCR1F	N/A 865-97	MA-DCR	Boston	February 1988 2/4/1997	Fire Damage Repairs to Gallops Island Boston Harbor Island State Park - Gallops, Grape and Bumpkin Islands - Site	4 1	Gallops, Grape and Bumpkin Islands	
006-010-706-5000-200	006-010-706-5000-200-DCR2A	Α'Z	MA-DCR	Boston	1972	Improvements Map C - 1972 Master Plan - Boston Harbor	14		
006-010-706-5000-200	006-010-706-5000-200-DCR2B	884-7	MA-DCR	Boston	January 1978	Topographical Survey - Boston Harbor Island State Park	4		
006-010-706-5000-200	006-010-706-5000-200-DCR2C	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-5000-200	006-010-706-5000-200-DCR2D	57-82 N/A	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-5000-200	006-010-706-5000-200-DCR2F	26-598	MA-DCR	Boston	2/4/1997	Boston Harbor Islands State Park - Gallops, Grape, and Burnpkin Islands - Site Improvements	1	Gallops, Grape and Bumpkin Islands	
006-010-706-5000-300	006-010-706-5000-300-DCR3A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-5000-300	006-010-706-5000-300-DCR3B	884-7	MA-DCR	Boston	January 1978	Topographical Survey - Boston Harbor Island State Park	4		
006-010-706-5000-300	006-010-706-5000-300-DCR3C	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-5000-300	006-010-706-5000-300-DCR3D	57-82	MA-DCR	Boston	4	Boston Harbor Island State Park	14		
000-000-007-010-000	008-010-708-2000-300-DCK3E	N/A	MA-DCK	Boston	28	Fire Damage Repairs - Gallops Island	4		
006-010-706-5000-300	006-010-706-5000-300-DCR3F	595-90	MA-DCR	Boston	June 1989	Pier Improvements - Boston Harbor Islands	co.	Brewster Islands	
006-010-706-5000-300	006-010-706-5000-300-DCR3G	865-97	MA-DCR	Boston	2/4/1997	Boston Harbor Islands State Park - Gallps, Grape and Bumpkin Islands - Site Improvements	7		
006-010-706-5000-300	006-010-706-5000-300-DCR3H	3375	MA-DCR	Boston	March 1999	Boston harbor Islands and Websate Park, Existing Conditions - Boston, Hingham, Weymouth, MA	40	Gallops, Grape and Bumpkin Islands at Piers	Existing Conditions
006-010-706-5000-300	006-010-706-5000-300-DCR3I	3385	MA-DCR	Boston	April 1999	Maintenance and Repairs to Existing Piers, Gallops Islands - Boston, Grape Island - Weymouth, Burnpkin Island - Hingham, DPW of Massachusetts - Division of Watenways	و	Gallops, Grape and Bumpkin Islands at Plers	Riprap
006-010-706-5000-400	006-010-706-5000-400-DCR4A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-5000-400	006-010-706-5000-400-DCR4B	884-7	MA-DCR	Boston	Janaruy 1978	Topographical Survey - Boston Harbor Island State Park	4	Gallops Island	
006-010-706-5000-400	006-010-706-5000-400-DCR4C	947-79	MA-DCR	Boston	П	Boston Harbor	21		
006-010-706-5000-400	006-010-706-5000-400-DCR4D 006-010-706-5000-400-DCR4E	57-82 N/A	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	4		
006-010-706-5000-400	006-010-706-5000-400-DCR4F	595-90	MA-DCR	Boston		Pler Improvements - Boston Harbor Islands	r co	Bumpkin, Gallops, Grape, and Great	
006-010-706-5000-400	006-010-706-5000-400-DCR4G	865-97	MA-DCR	Boston	2/4/1997	Boston Harbor Islands State Park - Gallops, Grape and Bumpkin Islands - Site Improvements	_		
006-010-706-5000-500	006-010-706-5000-500-DCR5A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Isldands	14		
006-010-706-5000-500	006-010-706-5000-500-DCR5B	884-7	MA-DCR	Boston	January 1978	Topographical Survey - Boston Harbor Island State Park	4		
006-010-706-5000-500	006-010-706-5000-500-DCR5C	947-79	MA-DCR	Boston		Boston Harbor Island State Park - Site Improvements	21		
006-010-706-5000-500	006-010-706-5000-500-DCR5D	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		

CITY: BOSTON - HARBOR ISLANDS SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
006-010-706-5000-500	006-010-706-5000-500-DCR5E	N/A	MA-DCR	Boston	February 1988	Fire Damage Repairs - Gallops Island	4		
006-010-706-5000-500	006-010-706-5000-500-DCRSF	865-97	MA-DCR	Boston	2/4/1997	Stat	7	Gallops, Grape and Bumpkin Islands	
006-010-706-7001-100	006-010-706-7001-100-DCR1A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Herbor Islands	14		
006-010-706-7001-100	006-010-706-7001-100-DCR1B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	21		
006-010-706-7001-100	006-010-706-7001-100-DCR1C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-7001-200	006-010-706-7001-200-DCR2A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	4		
006-010-706-7001-200	006-010-706-7001-200-DCR2B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-7001-200	006-010-706-7001-200-DCR2C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-7001-300	006-010-706-7001-300-DCR3A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-7001-300	006-010-706-7001-300-DCR3B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-7001-300	006-010-706-7001-300-DCR3C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-7001-400	006-010-706-7001-400-DCR4A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-7001-400	006-010-706-7001-400-DCR4B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-7001-400	006-010-706-7001-400-DCR4C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State park	14		
006-010-706-7001-500	006-010-706-7001-500-DCR5A	N/A	MA-DCR	Boston		Map C - 1972 Master Plan - Boston Harbor Islands	4		
006-010-706-7001-500	. 006-010-706-7001-500-DCR5B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	12		
006-010-706-7001-500	006-010-706-7001-500-DCR5C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
008-010-706-7001-600	006-010-706-7001-600-DCR6A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	4		
006-010-706-7001-600	006-010-706-7001-600-DCR6B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site	21		
006-010-706-7001-600	006-010-706-7001-600-DCR6C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-7001-700	006-010-706-7001-700-DCR7A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-706-7001-700	006-010-706-7001-700-DCR7B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	21		
006-010-706-7001-700	006-010-706-7001-700-DCR7C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-706-9000-100	006-010-706-9000-100-DCR1A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15 (George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-100	006-010-706-9000-100-DCR1B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	8	George's Island	All Structures - By Metcaife and Eddy
006-010-706-9000-100	006-010-706-9000-100-DCR1C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	8	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-110	006-010-706-9000-110-DCR11A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-110	006-010-706-9000-110-DCR11B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-110	006-010-706-9000-110-DCR11C	55759	MA-DCR	Boston	8	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-120	006-010-706-9000-120-DCR12A	2296	MA-DCR	Boston		Seawall Reconstruction - George's Island and Fort Warren		George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-120	006-010-706-9000-120-DCR12B	P94-1712-CIA	MA-DCR	Boston	266	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-120	006-010-706-9000-120-DCR12C	55759	MA-DCR	Boston		George's Island Seawall Restoration Project	П	Georde's Island	All Structures - By Metcelfe and Eddy
006-010-706-9000-130	006-010-706-9000-130-DCR13A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-130	006-010-706-9000-130-DCR13B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project			All Structures - By Metcalfe and Eddy
006-010-706-9000-130	006-010-706-9000-130-DCR13C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	8		All Structures - By Metcalfe and Eddy
006-010-706-9000-140	006-010-706-9000-140-DCR14A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15		All Structures - By Tibbet's Engineering
006-010-706-9000-140	006-010-706-9000-140-DCR14B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997 F	George's Island Seawall Restoration Project	\Box		All Structures - By Metcalfe and Eddy

CITY: BOSTON - HARBOR ISLANDS SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

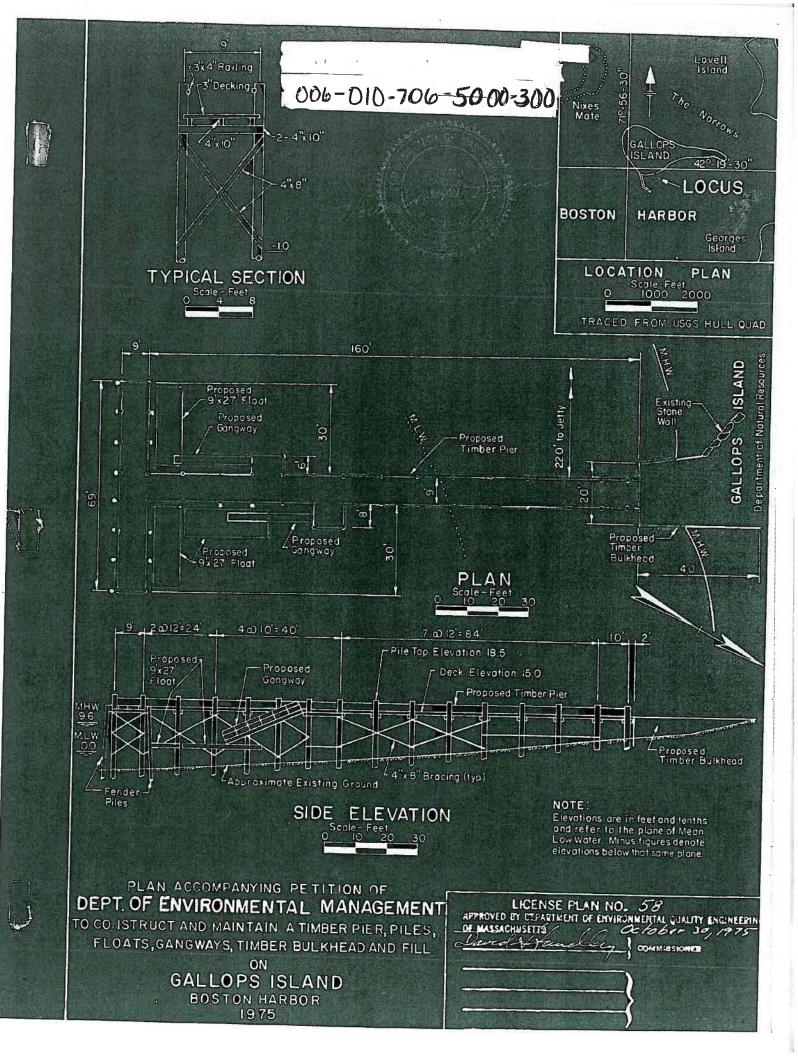
BCE Structure No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
006-010-706-9000-140	006-010-706-9000-140-DCR14C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	-	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-200	006-010-706-9000-200-DCR2A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	ŧ5	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-200	006-010-706-9000-200-DCR2B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-200	006-010-706-9000-200-DCR2C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawali Restoration Project	8	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-300	006-010-706-9000-300-DCR3A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-300	006-010-706-9000-300-DCR3B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	ھ	George's Isfand	All Structures - By Metcalfe and Eddy
006-010-706-9000-300	006-010-706-9000-300-DCR3C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	۵	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-400	006-010-706-9000-400-DCR4A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	5	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-400	006-010-706-9000-400-DCR4B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	- w	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-400	006-010-706-9000-400-DCR4C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-500	006-010-706-9000-500-DCR5A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	5	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-500	006-010-706-9000-500-DCR5B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	6	George's Island	All Structures - By Metcaffe and Eddy
006-010-706-9000-500	006-010-706-9000-500-DCR5C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
. 008-010-708-9000-600	006-010-706-9000-600-DCR6A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	5	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-600	006-010-706-9000-600-DCR6B	P94-1712-CIA	MA-DCR	Boston	997	George's Island Seawall Restoration Project		George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-600	006-010-706-9000-600-DCR6C	55759	MA-DCR	Boston	_	George's Island Seawall Restoration	۵	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-700	006-010-706-9000-700-DCR7A	2296	MA-DCR	Boston		Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-700	006-010-706-9000-700-DCR7B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	80	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-700	006-010-706-9000-700-DCR7C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	80	George's Island	All Structures - By Metcaife and Eddy
006-010-706-9000-800	006-010-706-9000-800-DCR8A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-800	006-010-706-9000-800-DCR8B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	8	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-800	006-010-706-9000-800-DCR8C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	80	George's Island	All Structures - By Metcalfe and Eddy
006-010-706-9000-900	006-010-706-9000-900-DCR9A	2296	MA-DCR	Boston	MAY 1973	Seawall Reconstruction - George's Island and Fort Warren	15	George's Island	All Structures - By Tibbet's Engineering
006-010-706-9000-900	006-010-706-9000-900-DCR9B	P94-1712-CIA	MA-DCR	Boston	AUGUST 27, 1997	George's Island Seawall Restoration Project	8	George's Island	All Structures - By Metcalfe and Eddy
006-000-300-300	006-010-706-9000-900-DCR9C	55759	MA-DCR	Boston	MAY 5, 2000	George's Island Seawall Restoration Project	80		All Structures - By Metcalfe and Eddy
006-010-707-4000-100	006-010-707-4000-100-DCR1A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-707-4000-100	006-010-707-4000-100-DCR1B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	21		
006-010-707-4000-100	006-010-707-4000-100-DCR1C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-707-4000-200	006-010-707-4000-200-DCR2A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan Boston Harbor Islands	4		
006-010-707-4000-200	006-010-707-4000-200-DCR2B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	12		
006-010-707-4000-200	006-010-707-4000-200-DCR2C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-707-4000-300	006-010-707-4000-300-DCR3A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-707-4000-300	006-010-707-4000-300-DCR3B	947-79	MA-DCR	Boston		Boston Harbor Island State Park - Site Improvements	21		
006-010-707-4000-300	006-010-707-4000-300-DCR3C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		

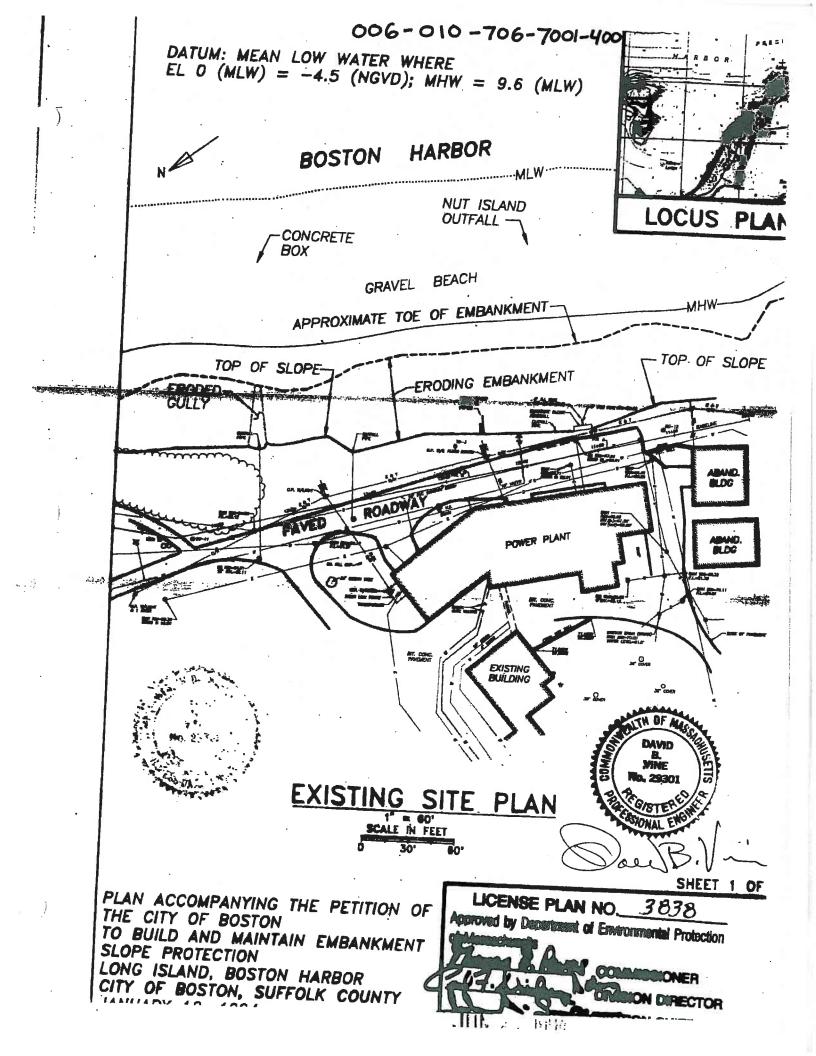
CITY: BOSTON - HARBOR ISLANDS SOURCE: MA-DCR LOCATION: MA-DCR BOSTON and HINGHAM, MA DATE OF RESEARCH: JULY 2007

BCE Structure No	Document No	Contract Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
006-010-707-4000-300	006-010-707-4000-300-DCR3D	C21A2	MA-DCR	Boston	1993	Massachusetts Highway Department - Central Artery (I-93)Tunnel (I-90) Project - Spectacle Island Materials Disposal System	-		
006-010-707-4000-300	006-010-707-4000-300-DCR3E	C21C2	MA-DCR	Boston	2/18/2002	Massachusetts Highway Department - Central Artery (I-93)/Tunnel (I-90) Project - Spectacle Island Visitors Center	ro O	Spectacle Island	
006-010-707-4000-300	006-010-707-4000-300-DCR3F	C21A2-C21C2	MA-DCR	Boston	September 2002	Spectacle Island Maintenance Key Plan	-		
006-010-707-4000-400	006-010-707-4000-400-DCR4A	N/A	MA-DCR	Boston	1972	Map C - 1972 Master Plan - Boston Harbor Islands	14		
006-010-707-4000-400	006-010-707-4000-400-DCR4B	947-79	MA-DCR	Boston	July 1979	Boston Harbor Island State Park - Site Improvements	21		
006-010-707-4000-400	006-010-707-4000-400-DCR4C	57-82	MA-DCR	Boston	September 1984	Boston Harbor Island State Park	14		
006-010-707-4000-400	006-010-707-4000-400-DCR4D	C21A2	MA-DCR	Boston	1993	Massachusetts Highway Department - Central Artery (I-93) / Tunnel (I-90) Project - Spectacle Island Materials Disposal System	£		
006-010-707-4000-400	006-010-707-4000-400-DCR4E	C21C2	MA-DCR	Boston	2/18/2002	Massachusetts Highway Department - Central Artery (I-93) / Tunnel (I-90) Project - Spectacle Island Visitors Center	ισ		
006-010-707-4000-400	D06-010-707-4000-400-DCR4F	C2142-C21C2	MA-DCR	Rocton	Sentember 2002	Sentember 2003 Speciario lejand Melatensary Keymler			

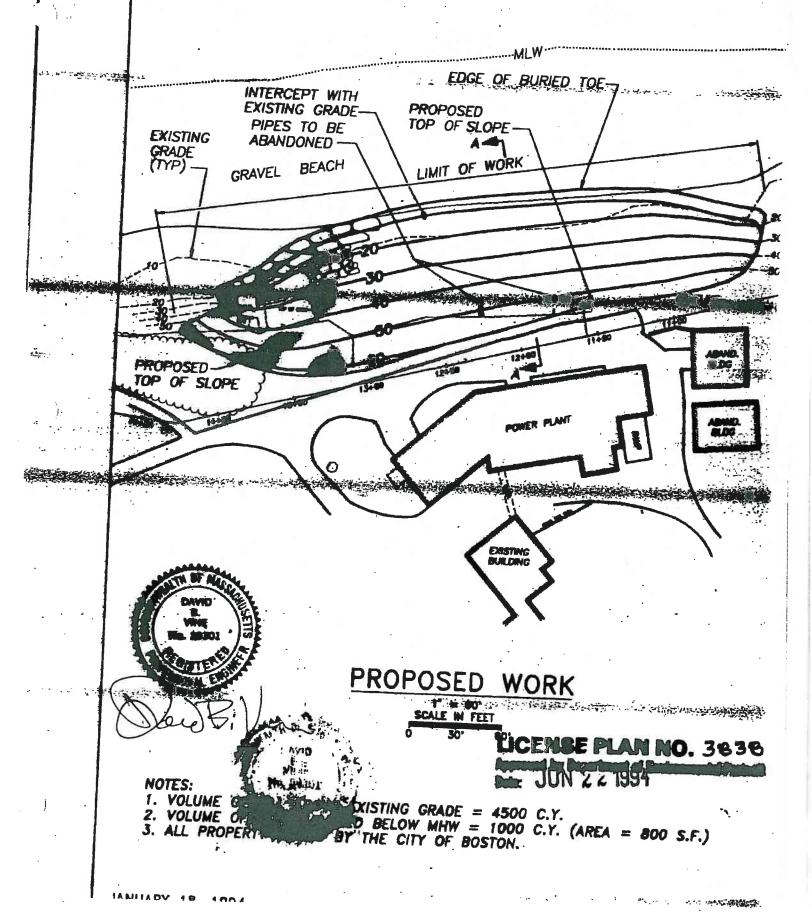
CITY: BOSTON - HARBOR ISLANDS SOURCE: DEP LOCATION: BOSTON, MA DATE OF RESEARCH: JULY 2007

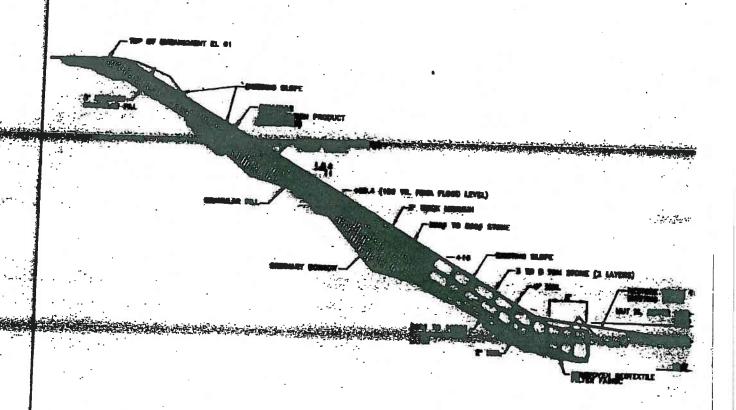
		Contract			l		ľ		
BCE Structure No	Document No	Drawing	Entity	Municipality	Date	Title	Sheets	Location	Description
008-010-708-5000-300	008-010-708-5000-300-LIC3A	99	DEP	Boston	October 1975	Plan Accompanying Petition of Dept. of Environmental Management to Construct and Maintain a Timber Pier, Fless, Floats, Cangways, Timber Bulkhead en Fill on Gallops Island, Boston Harbor - 1975	-	Gellops Island	Proposed Timber Buikhead
006-010-706-7001-400	006-010-706-7001-400-LIC4A	3838	DEP	Boston	June 1994	Plan Accompanying the Petition of the City of Boston to Build and Maintain Embankment Stope Protection - Long Island, Boston Harbor, City of Boston, Suffolk County	m	Long (sland	Slope Protection
008-010-706-7001-500	006-010-706-7001-500-LICSA	9396	DEP	Boston	August 28, 2002	Plan Accompanying Petition of the City of Boston August 28, 2002 to Construct and License Stone Slope Protection Af The Long Island Bridge Abutment	r.	Boston Harbor	Stone Stope Protection
006-010-707-4000-100	006-010-707-4000-100-LIC1A	3181	DEP	Boston	March 1993	Plans Accompanying Petitlon of the Massachuseth elighway Opepartment ociose Landfill, Construct Containment Dike, Seawell and Outfalls, Dradge, Fill, Provide Beach Nourishment al Speedatels Island. Boston Henbor, Boston,	6	Spectacle Island	Seawall
008-010-707-4000-300	006-010-707-4000-300-LIC3A	3181	DEP	Boston	March 1983	Plans Accompanying Petition of the Massachuseth Highway Opeparhand to Close Landfill, Construct Confairment Dike, Sewell and Outfaills, Dredge, Fill, Provide Beach Nourishment at Spectacle Island, Boston Harbor, Boston,	6	Spectacle island	Seawall





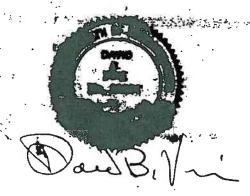
BOSTON HARBOR 006-010-706-7001-400



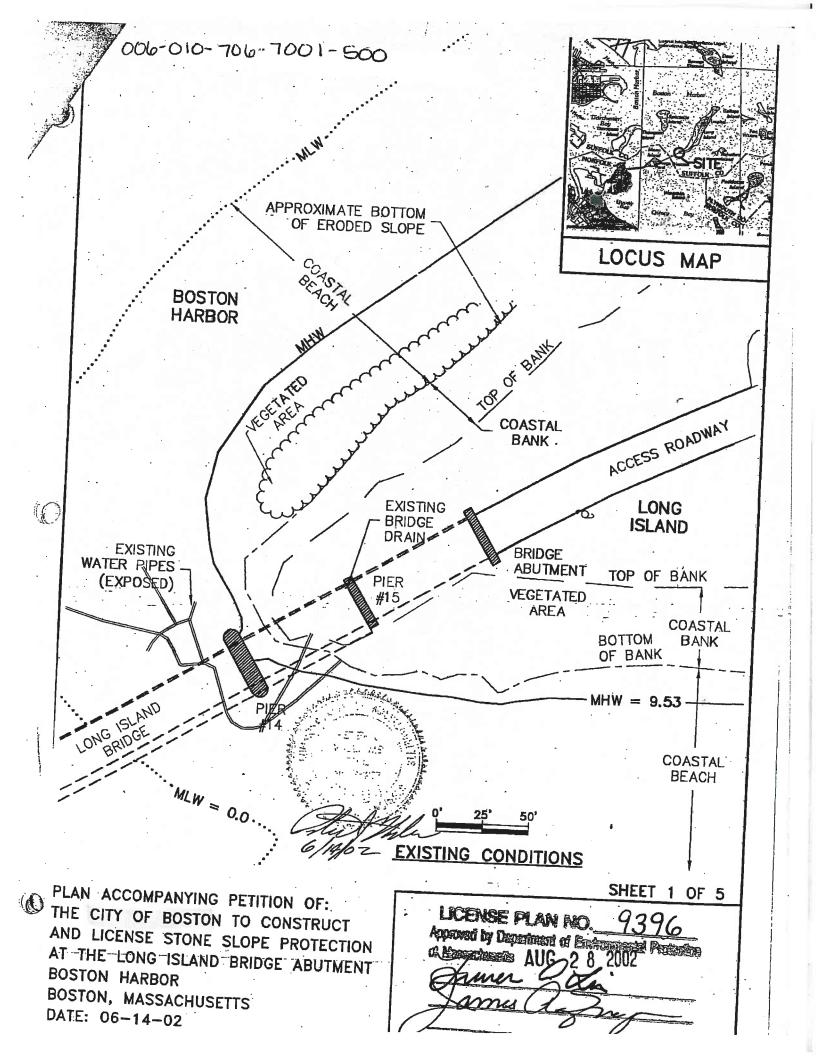


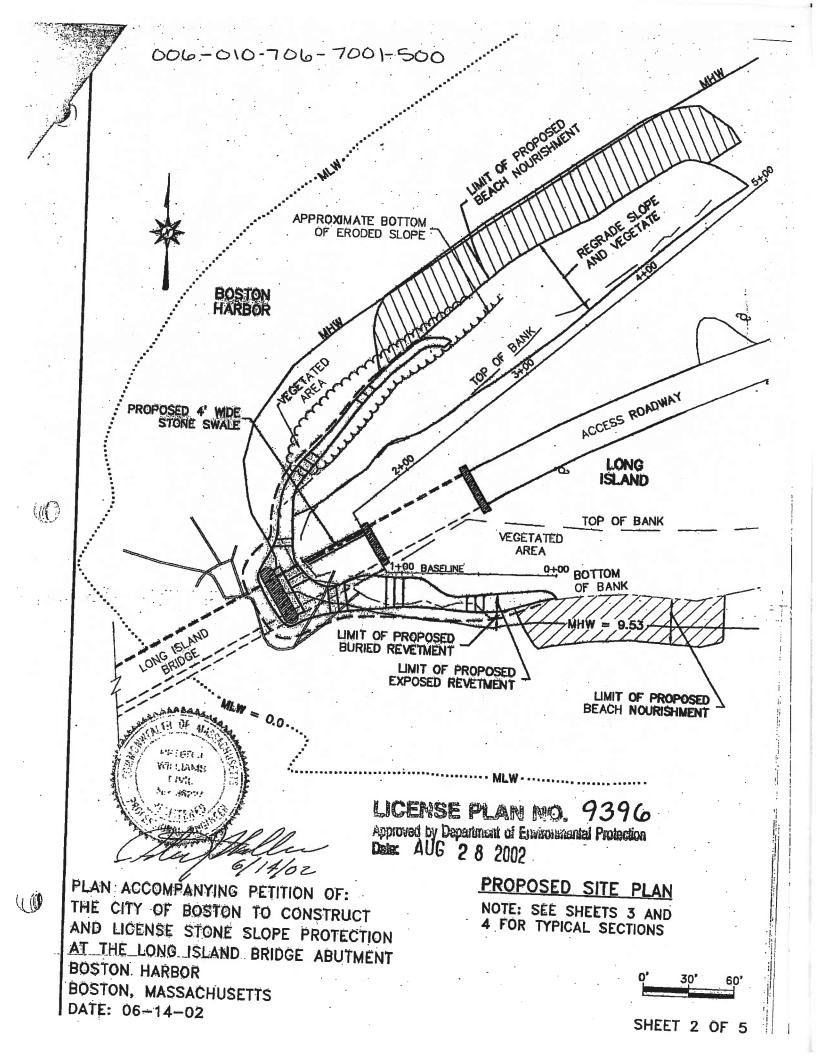
SECTION A-A

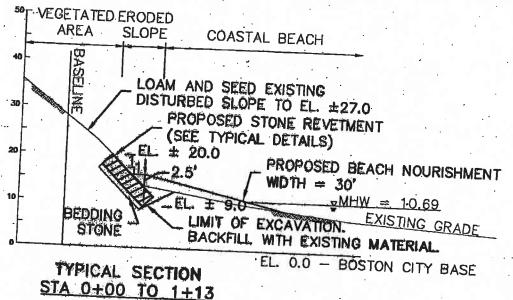
SCALE: 1" = 20' SCALE IN FEET 0 10' 20'

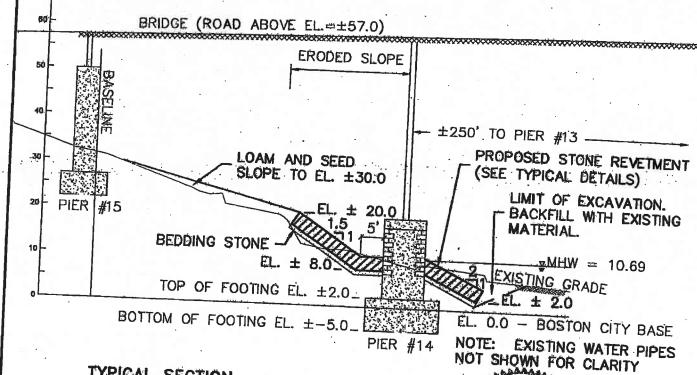


LICENSE PLAN NO. 3838









TYPICAL SECTION STA 1+13 TO 1+45

TYPICAL SECTIONS

PLAN ACCOMPANYING PETITION OF: THE CITY OF BOSTON TO CONSTRUCT AND LICENSE STONE SLOPE PROTECTION AT_THE LONG ISLAND BRIDGE ABUTMENT BOSTON HARBOR

110

BOSTON, MASSACHUSETTS

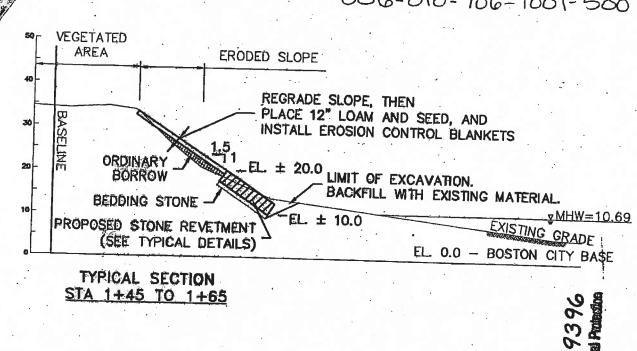
DATE: 06-14-02

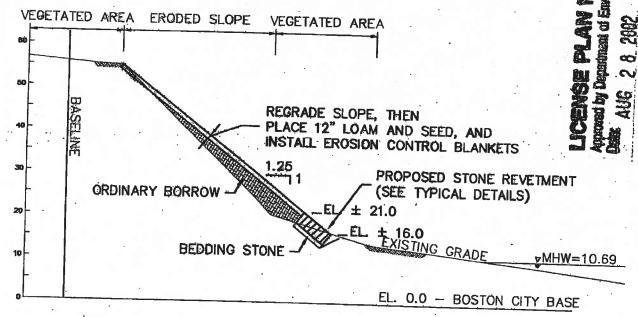
License Plan no. 9396

Approved by Department of Environmental Protection Date: AUG 28 2002

PEIFRI

MILL AMS



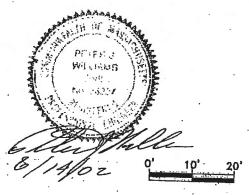


TYPICAL SECTION STA 1+65 TO 2+70

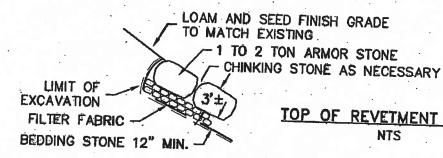
TYPICAL SECTIONS

(Q)

PLAN ACCOMPANYING PETITION OF: THE CITY OF BOSTON TO CONSTRUCT AND LICENSE STONE SLOPE PROTECTION AT THE LONG ISLAND BRIDGE ABUTMENT BOSTON HARBOR BOSTON, MASSACHUSETTS DATE: 06-14-02



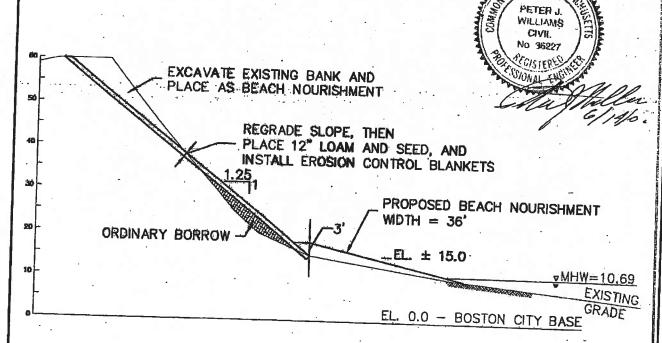
SHEET 4 OF 5



TOP OF REVETMENT DETAIL NTS

TO 2 TON ARMOR STONE 2 TO 3 TON MIN. TOE STONE BACKFILL WITH EXISTING BEACH MATERIAL TEXISTING GRADE (VARIES) MIN. BEDDING STONE 12" MIN. LIMIT OF FILTER FABRIC **EXCAVATION**

TOE OF REVETMENT DETAIL NTS



PLAN ACCOMPANYING PETITION OF: THE CITY OF BOSTON TO CONSTRUCT AND LICENSE STONE SLOPE PROTECTION AT THE LONG ISLAND BRIDGE ABUTHENTS PLAN NO.

BOSTON, MASSACHUSETTS

DATE: 06-14-02

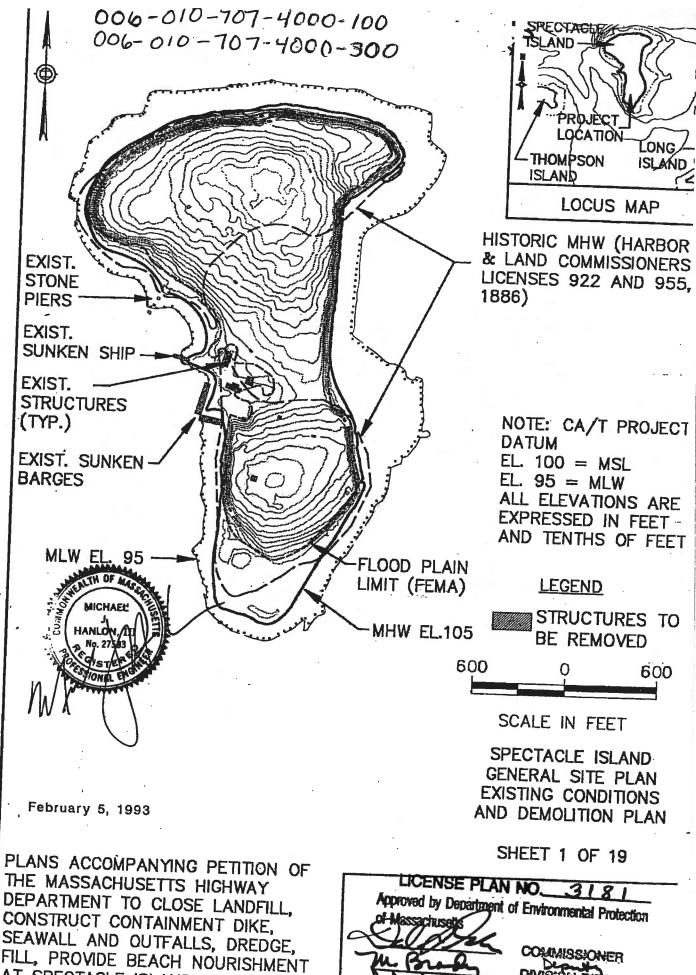
Approved by Department of Environmental Protection

TYPICAL SECTION

STA 2+70 TO 4+80

Date: AUG 2 8 2002

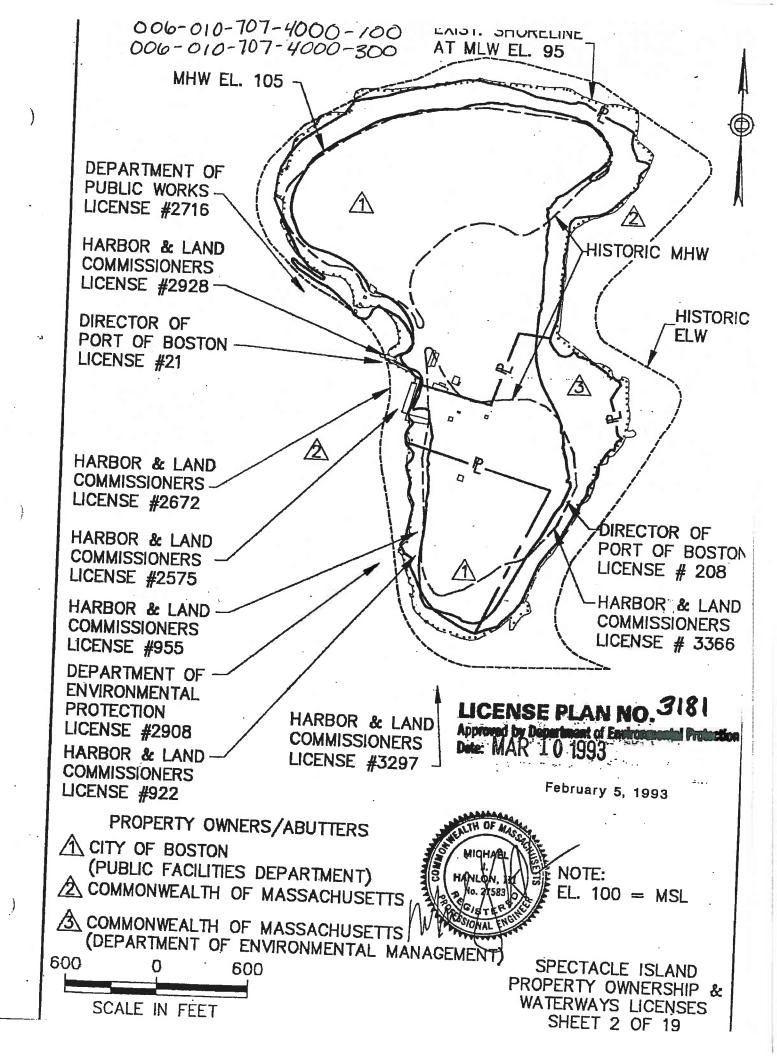
SHEET 5 OF

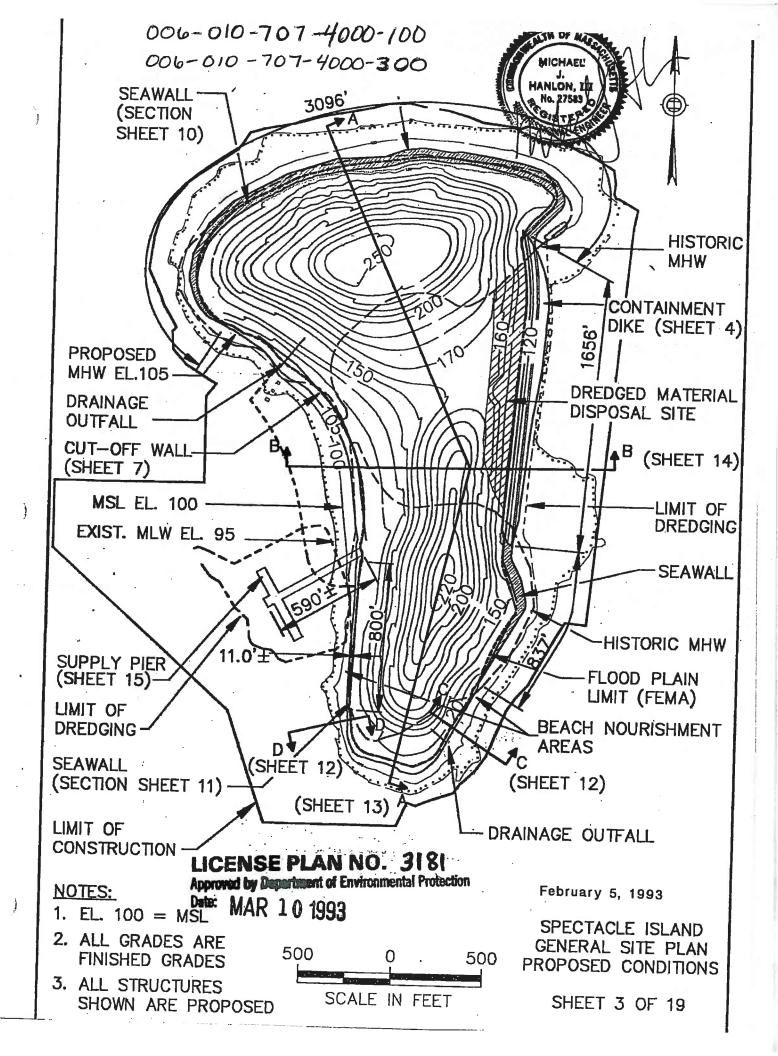


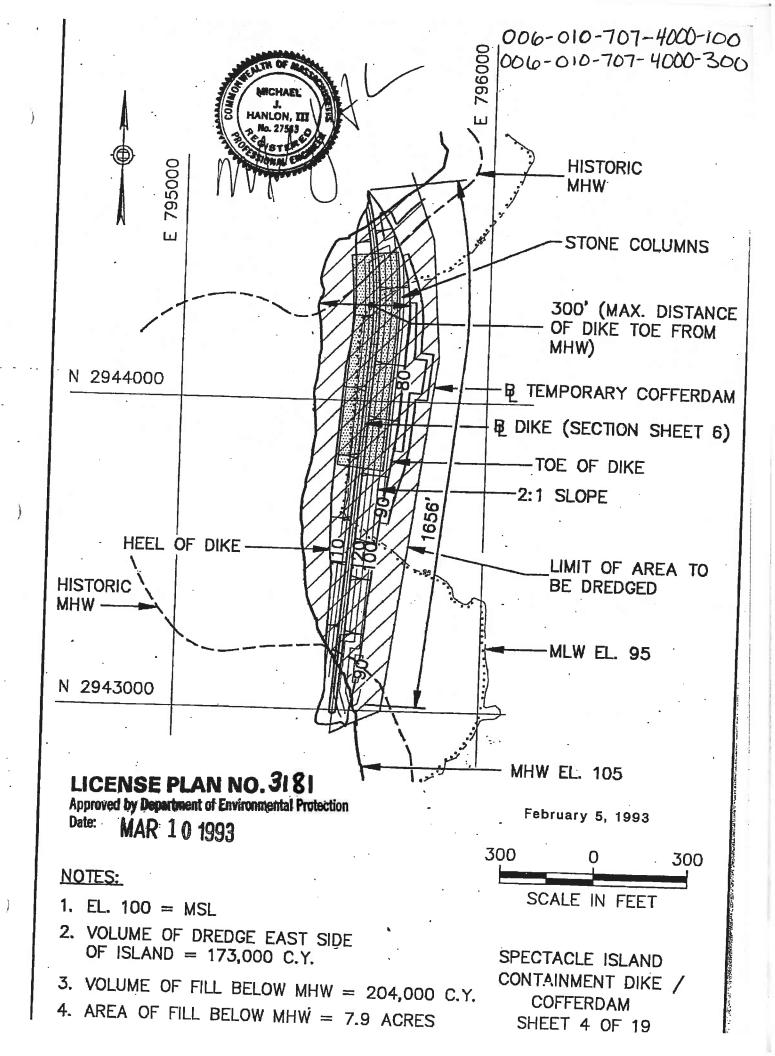
AT SPECTACLE ISLAND, BOSTON,

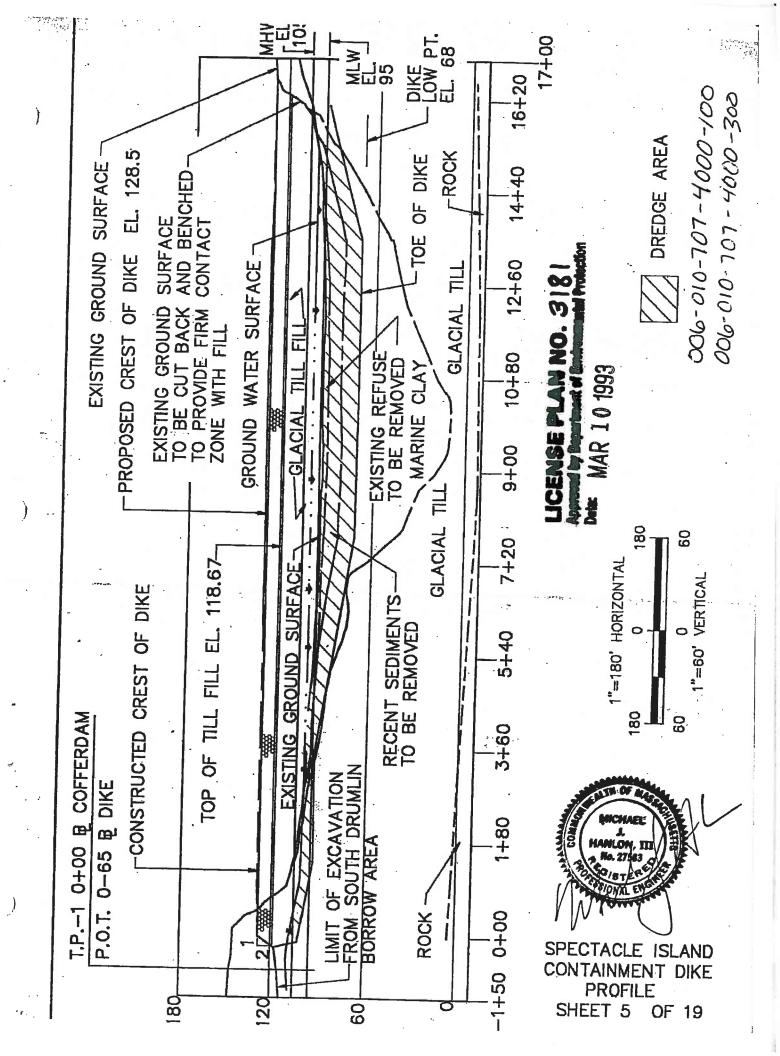
HARBOR, BOSTON, MA.

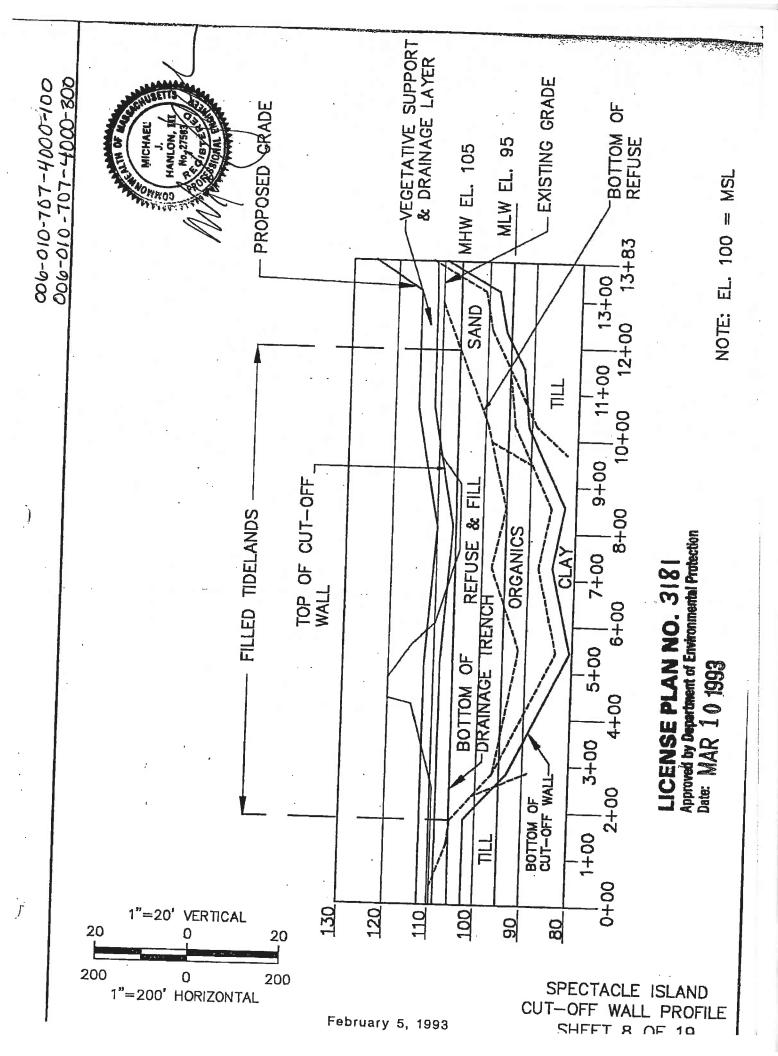
COMMISSIONER

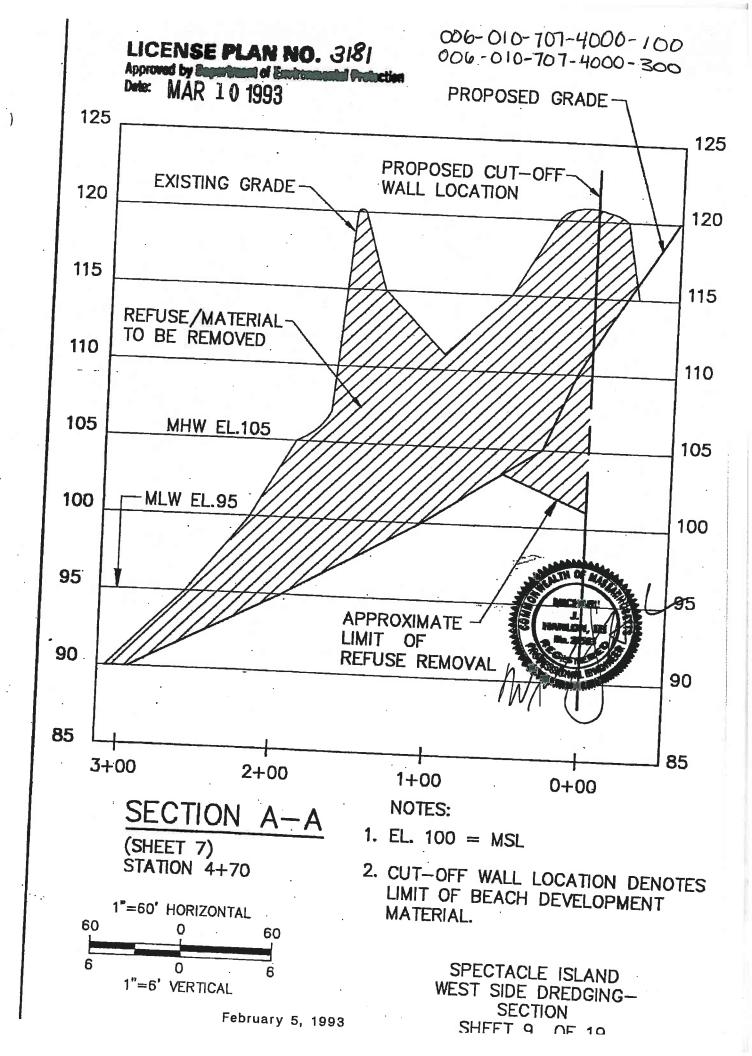


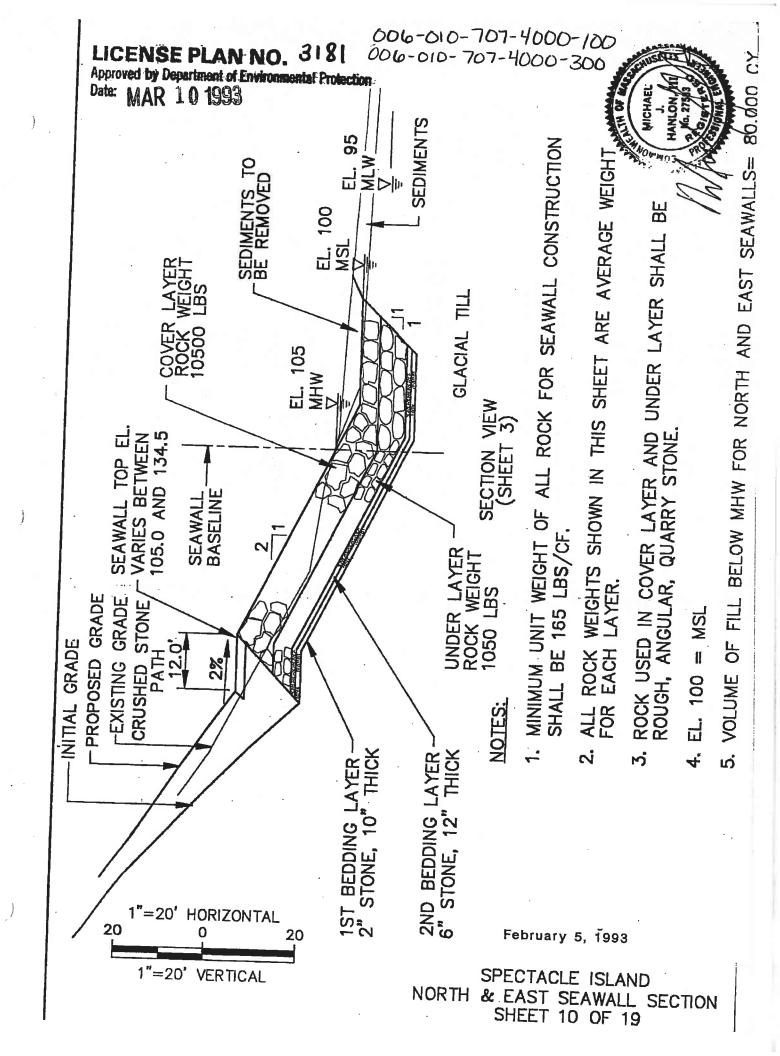


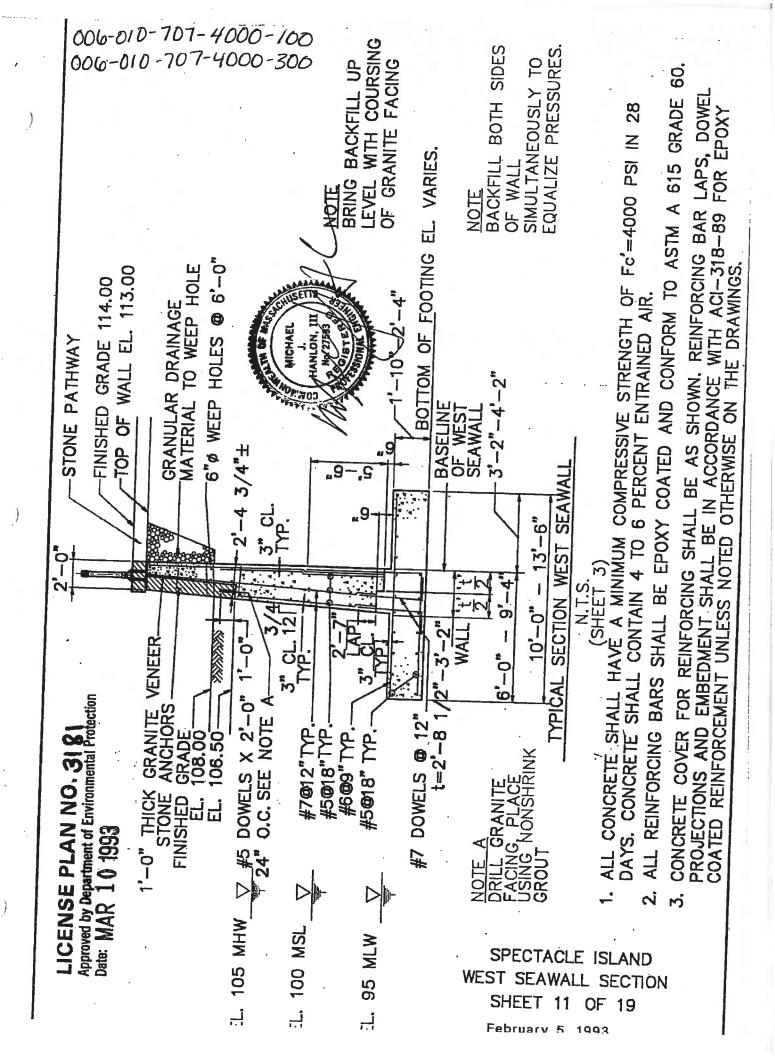




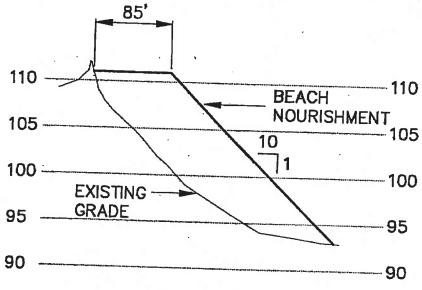




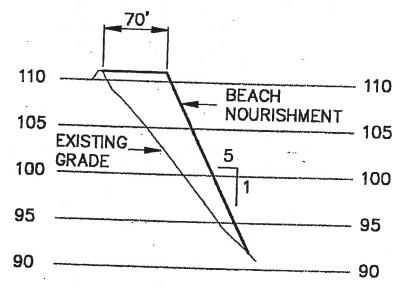


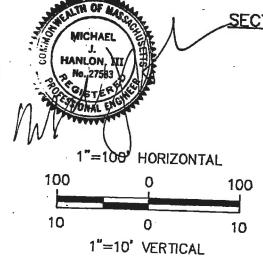


006-010-707-4000-100



SECTION C-C (SHEET 3)





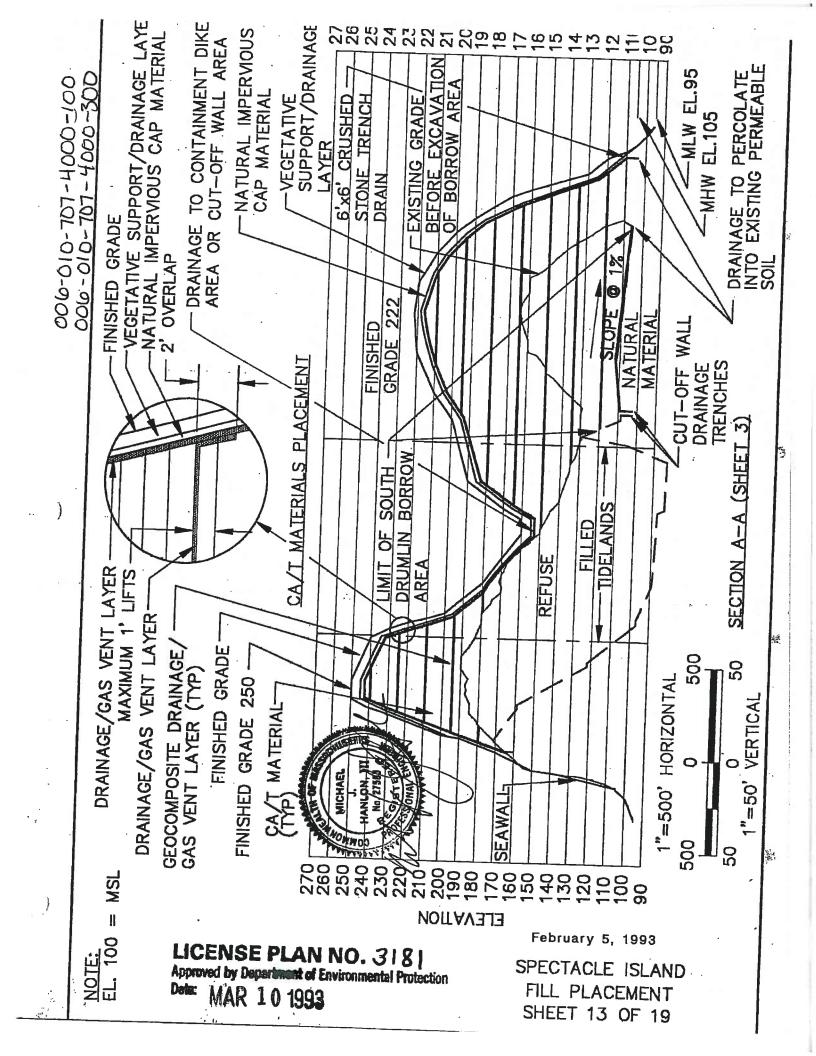
)

SECTION D-D (SHEET 3)

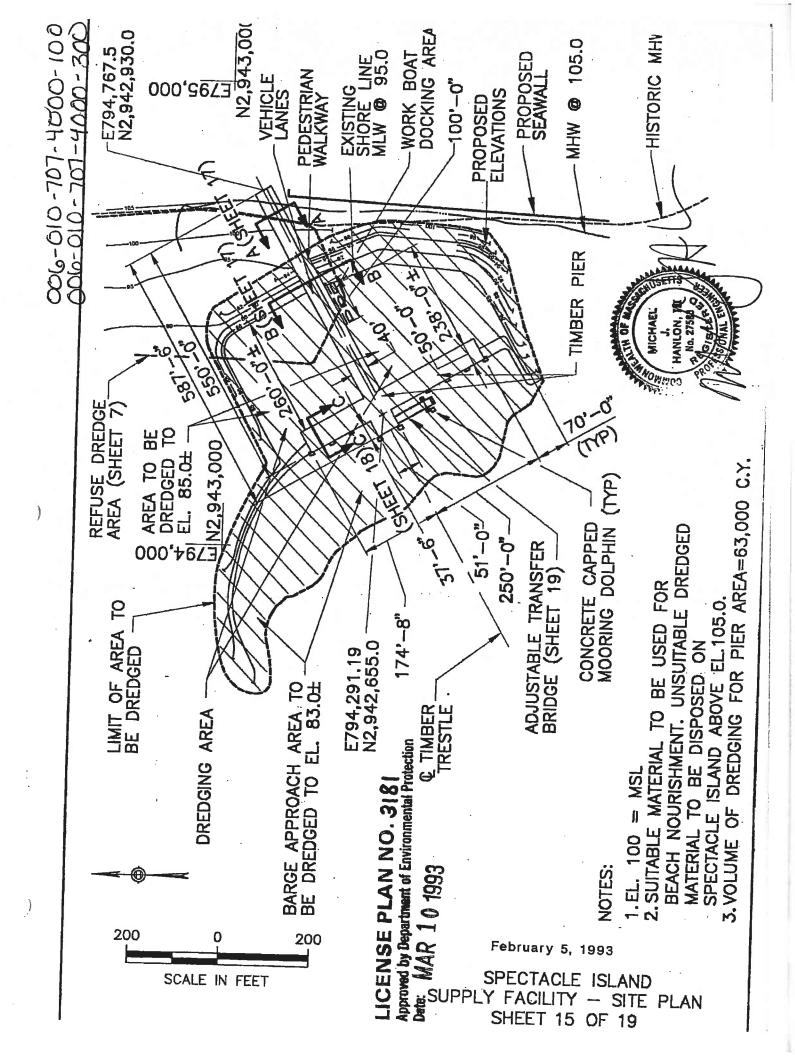
LICENSE PLAN NO. 3181 Approved by Department of Environmental Protection Date: MAR 101993

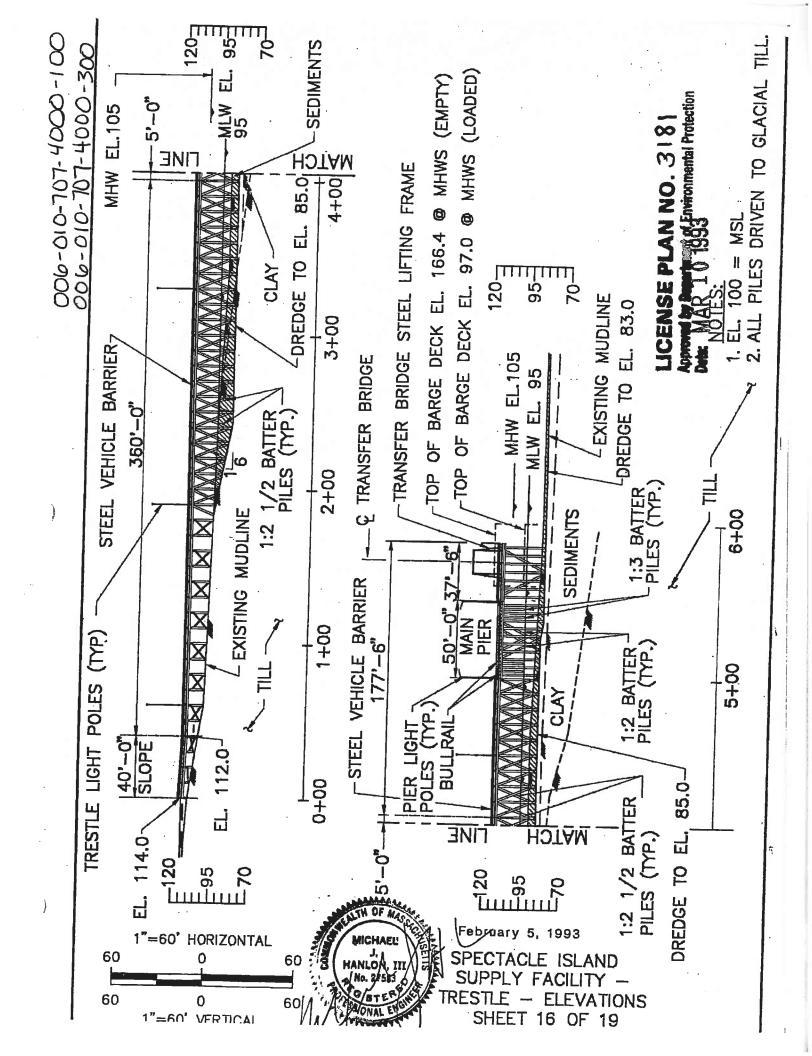
SPECTACLE ISLAND BEACH NOURISHMENT SECTIONS SHEET 12 OF 19

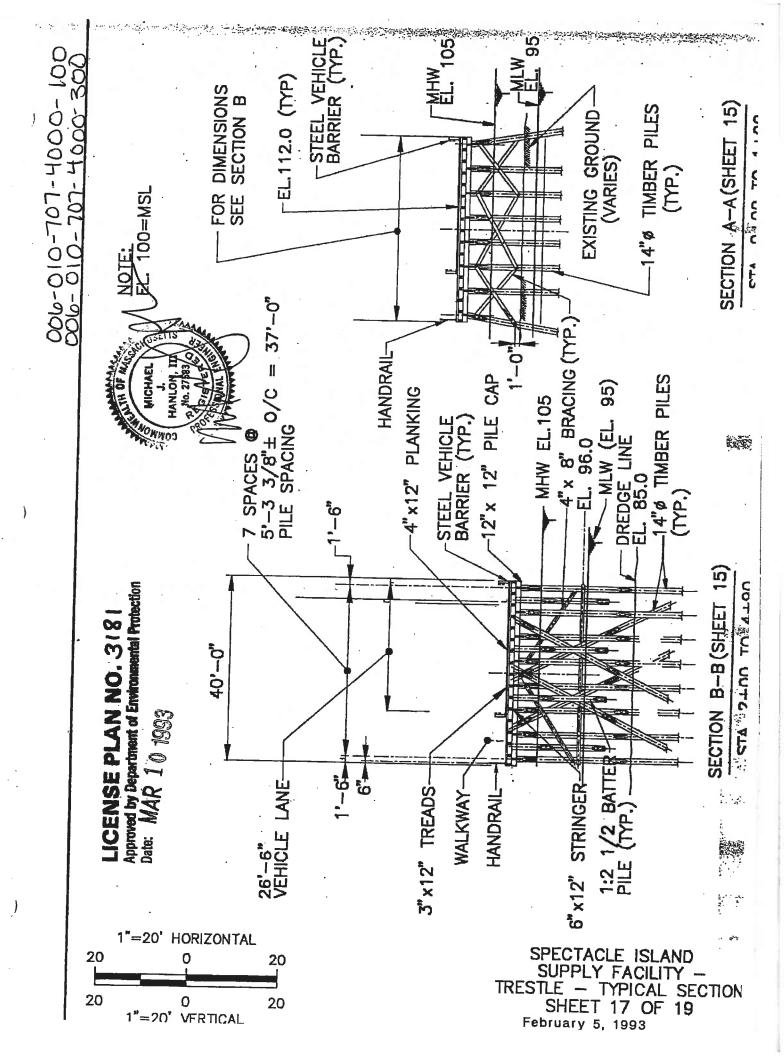
February 5, 1993

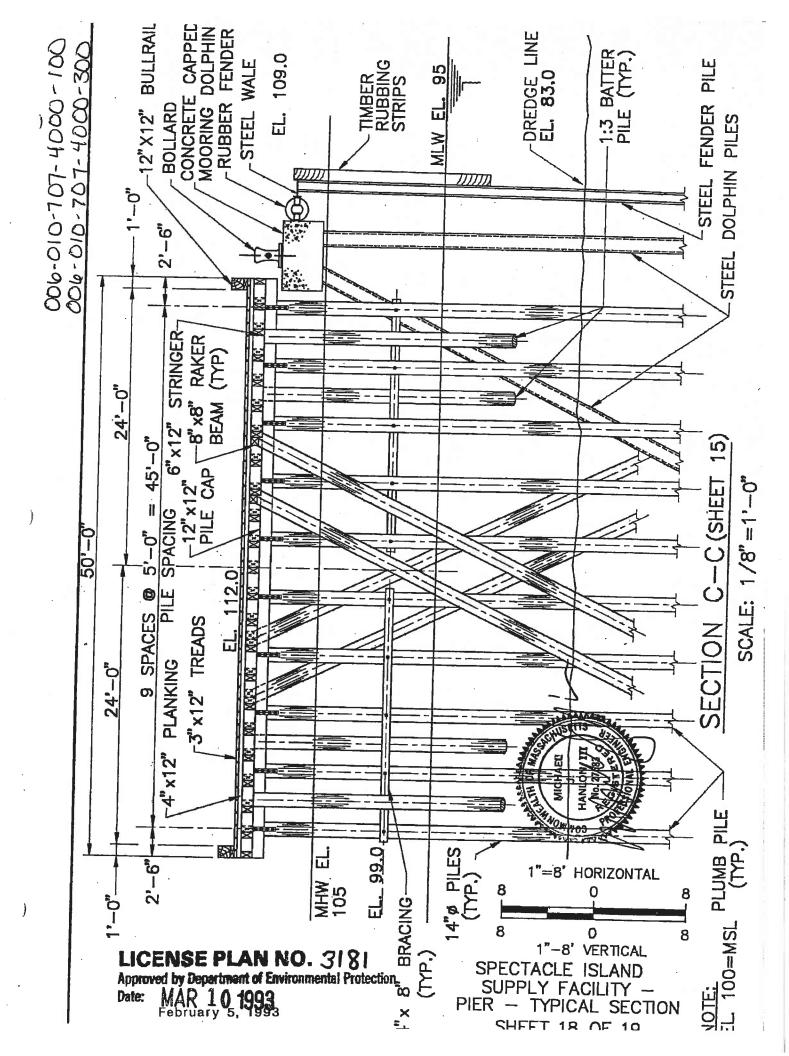


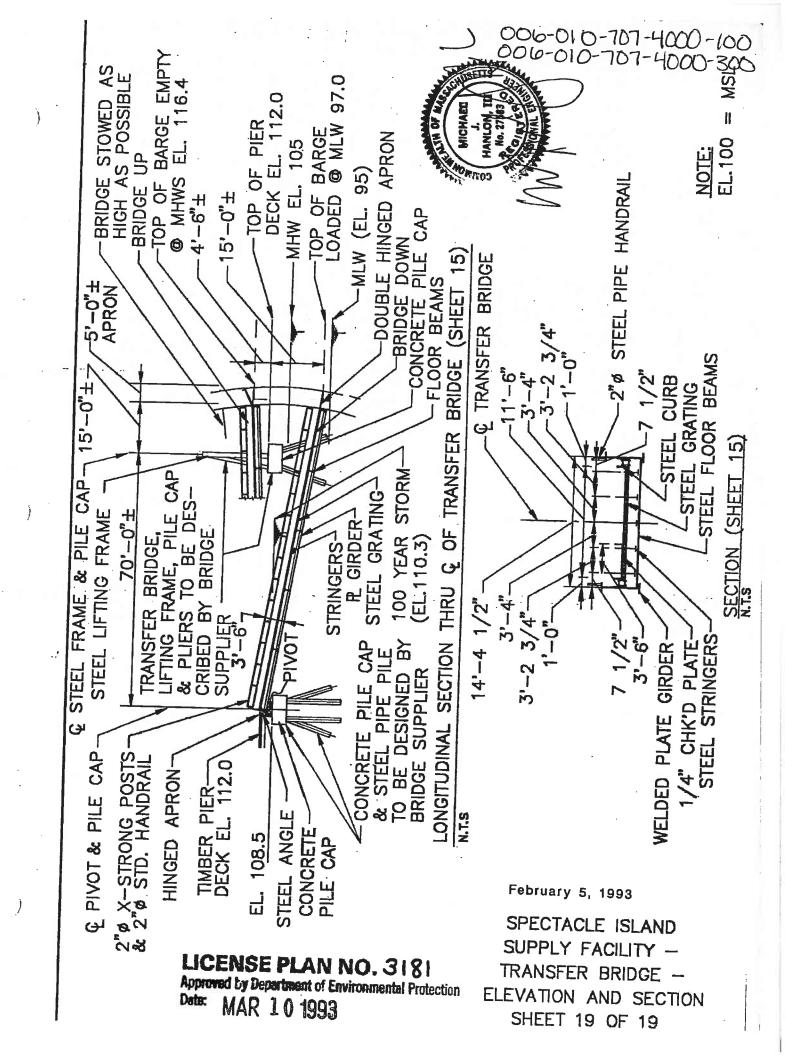
)

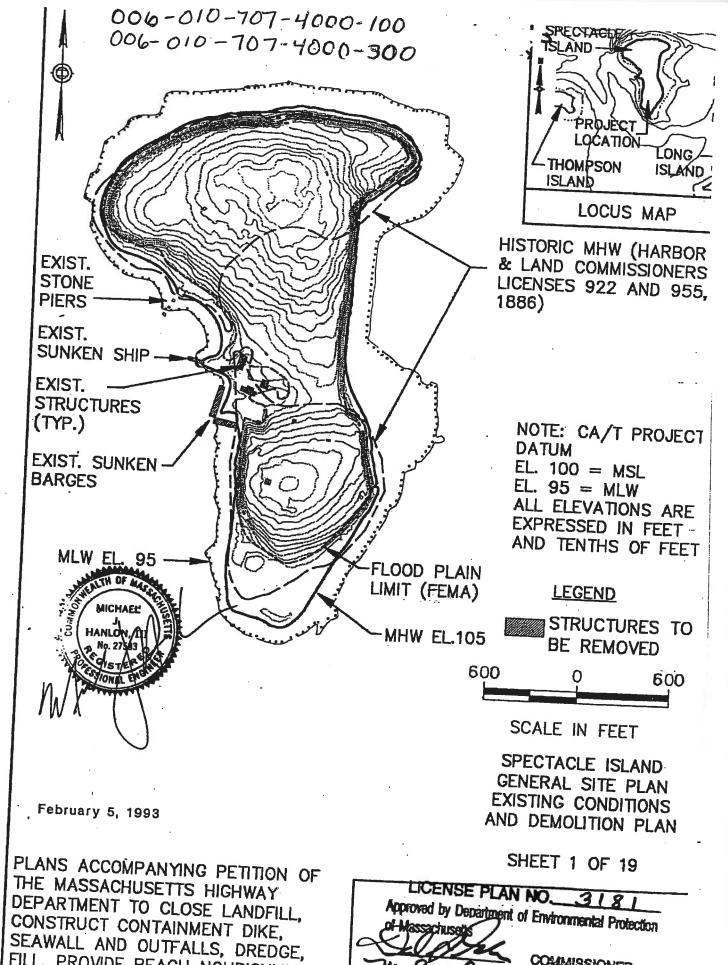






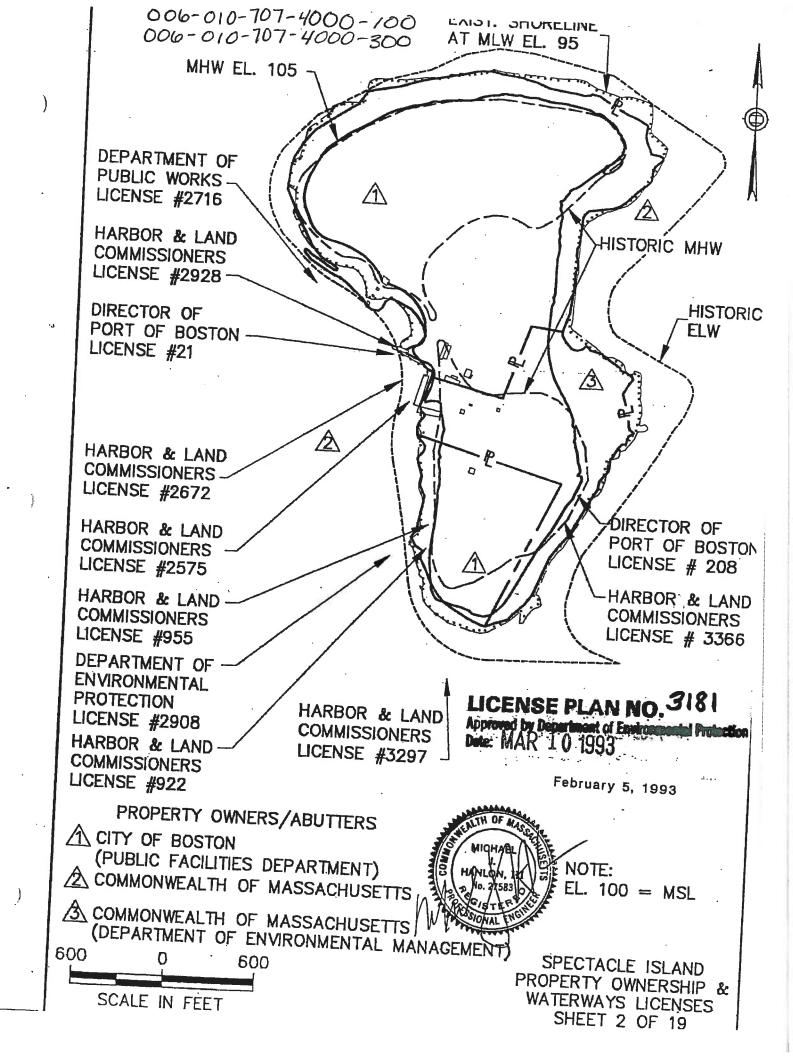


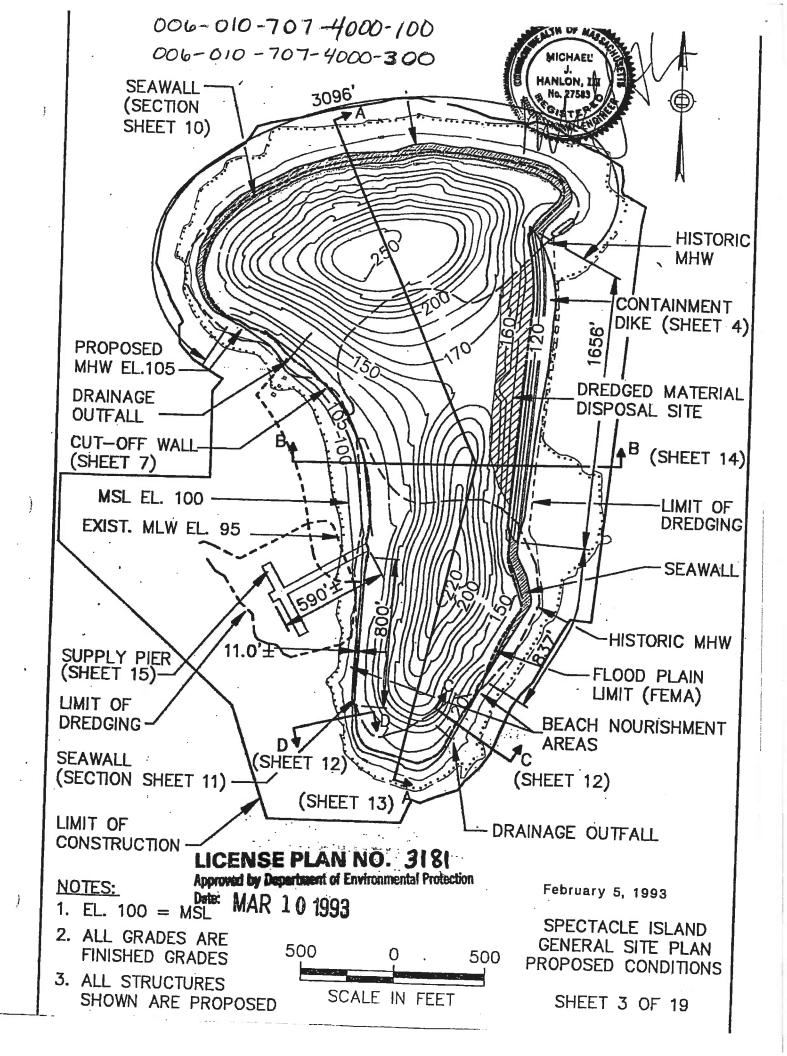


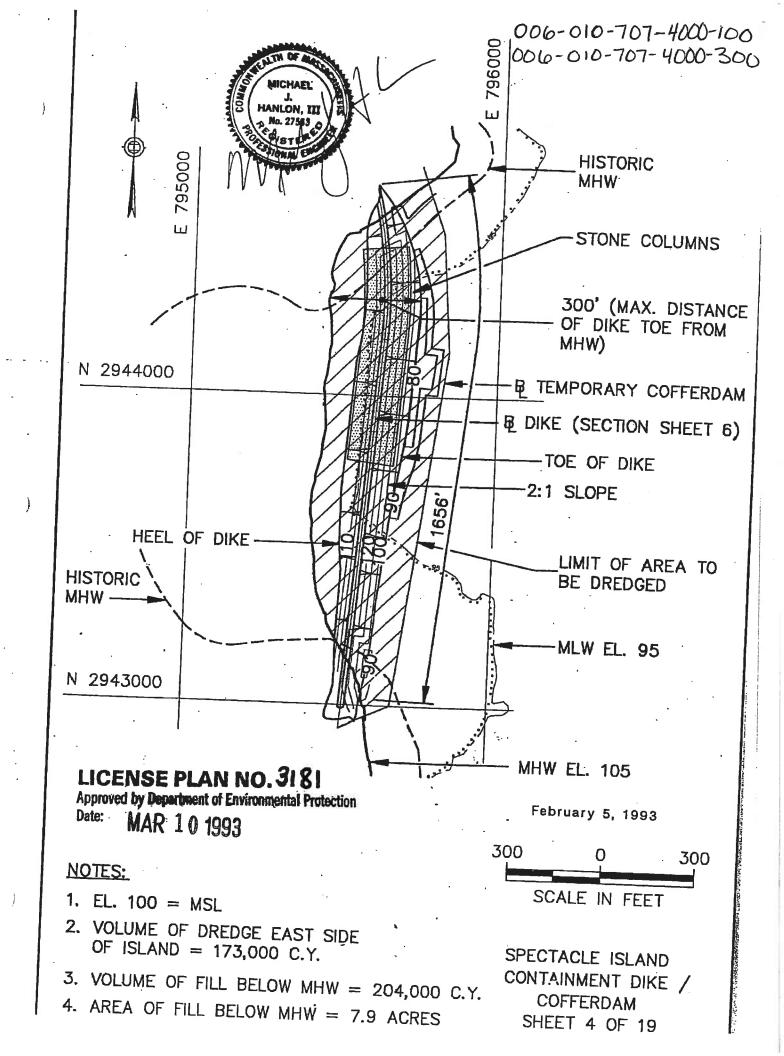


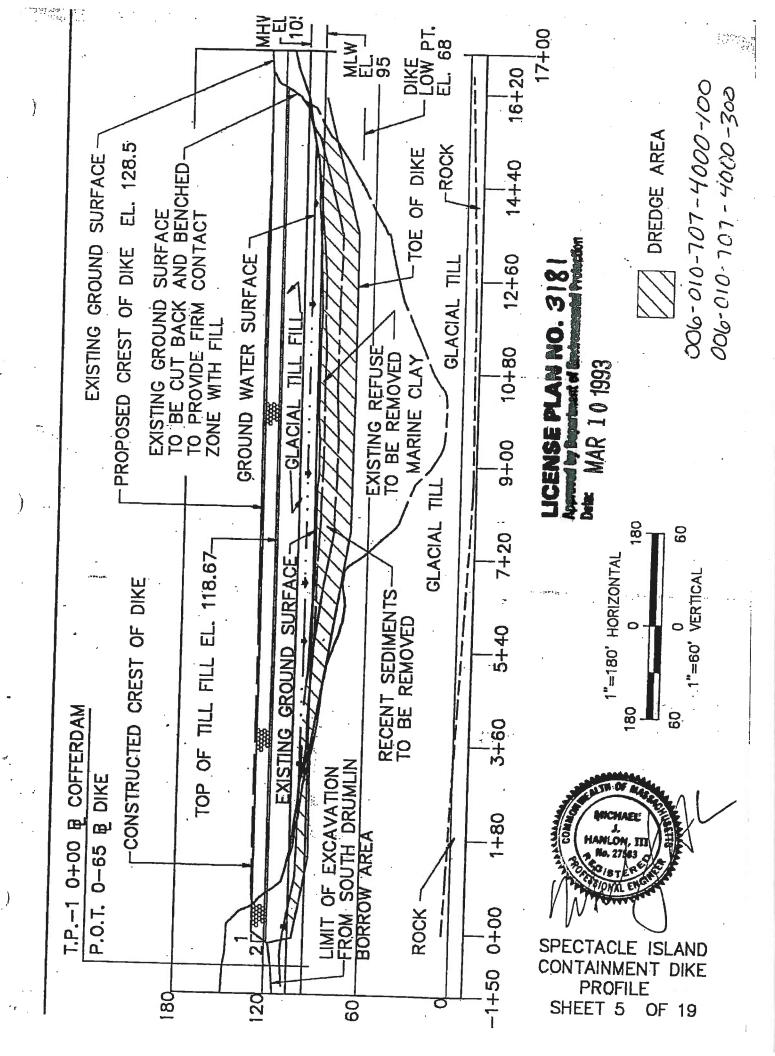
FILL, PROVIDE BEACH NOURISHMENT AT SPECTACLE ISLAND, BOSTON, HARBOR, BOSTON, MA.

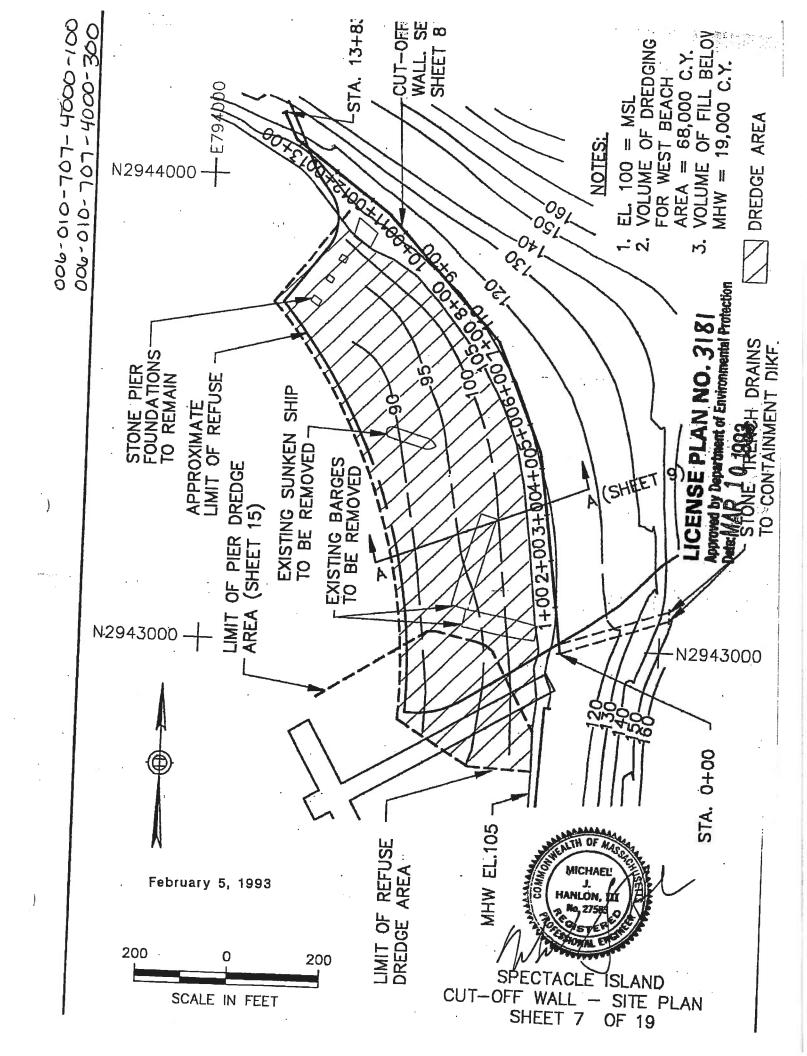
COMMISSIONER ETION CHEE

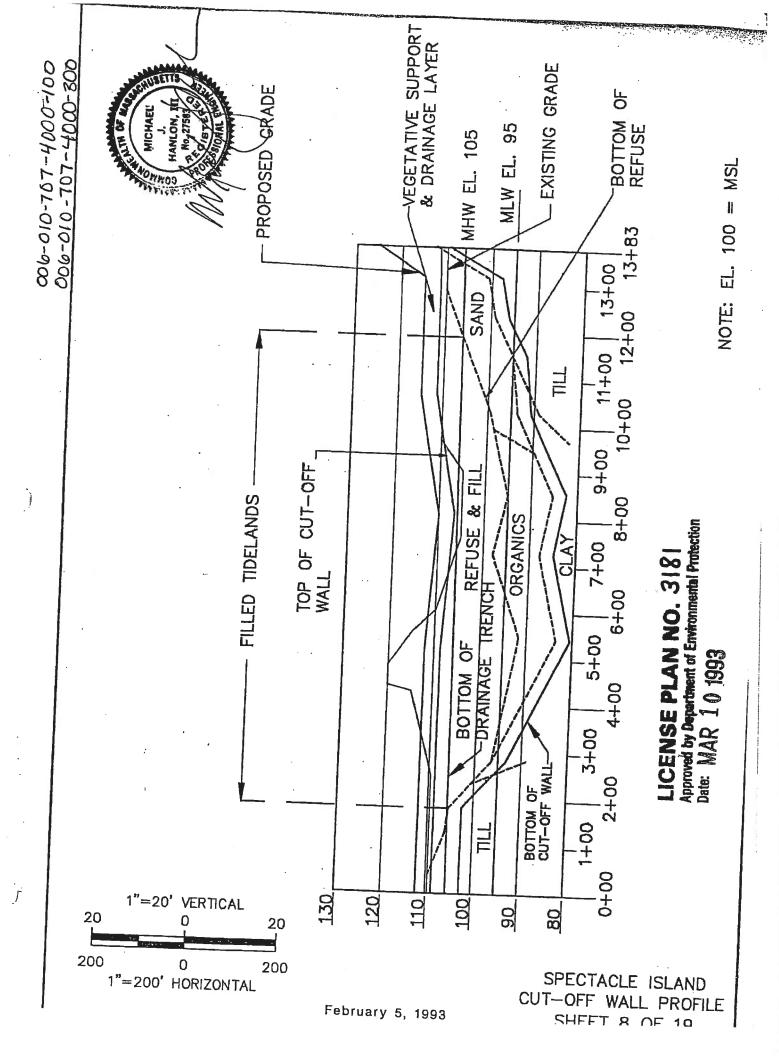


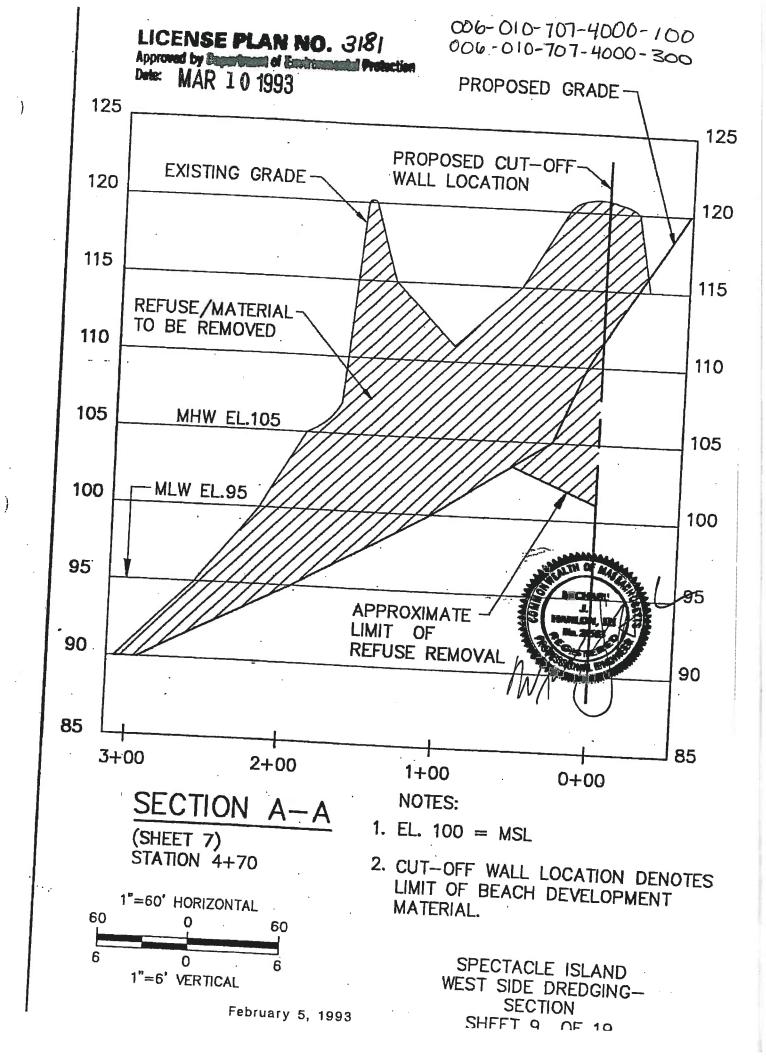


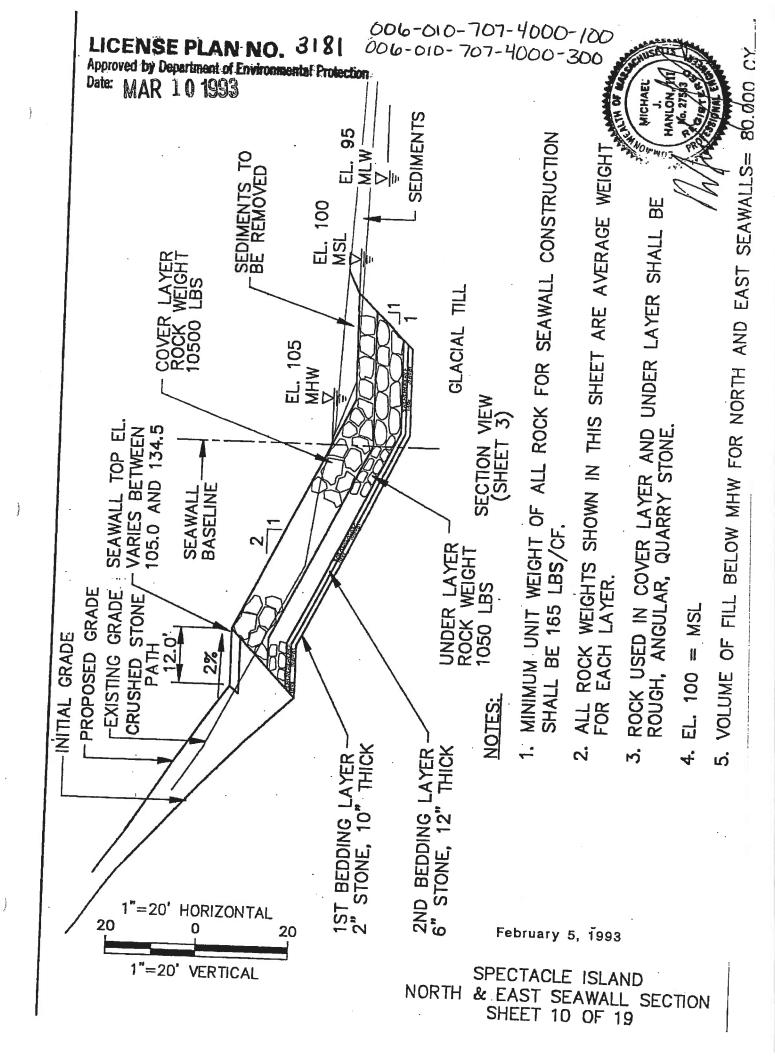


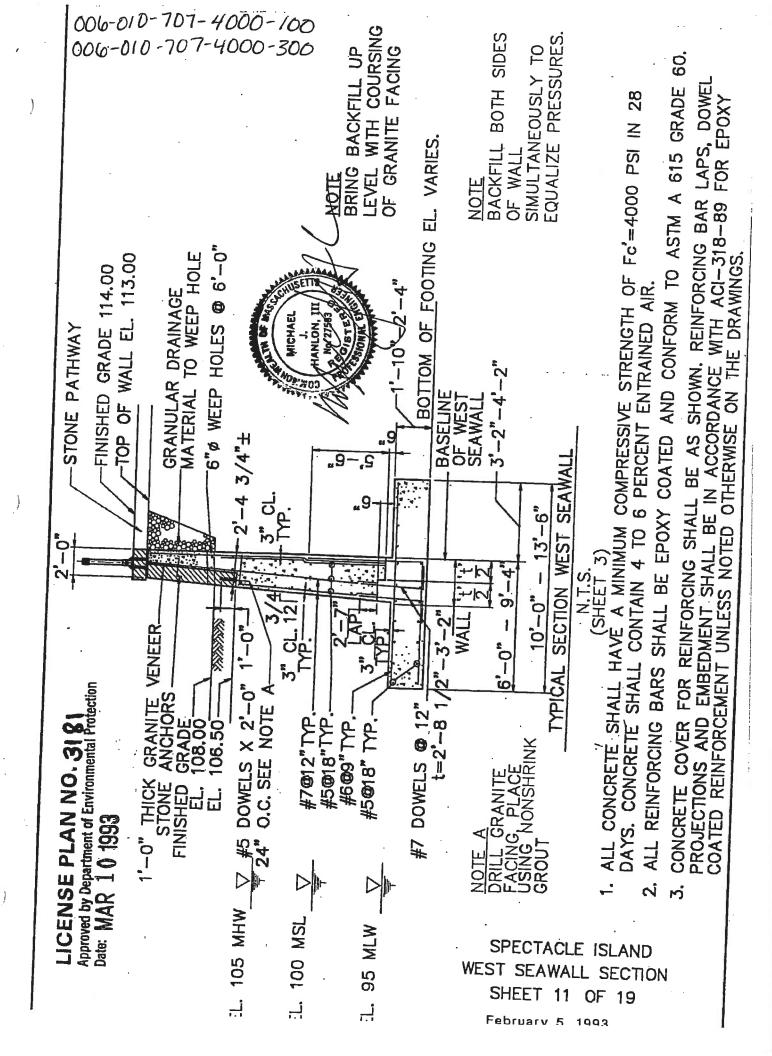




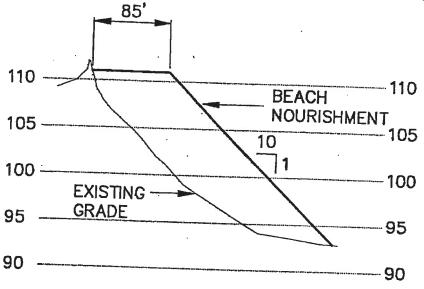




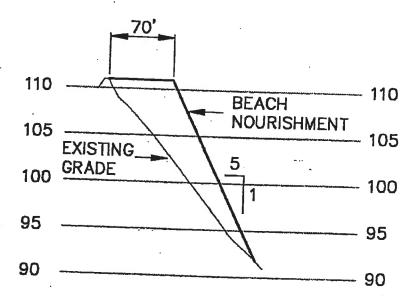


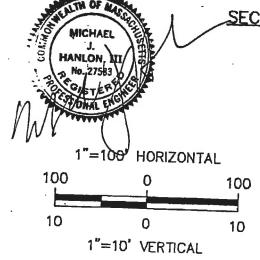


006-010-707-4000-100



SECTION C-C (SHEET 3)





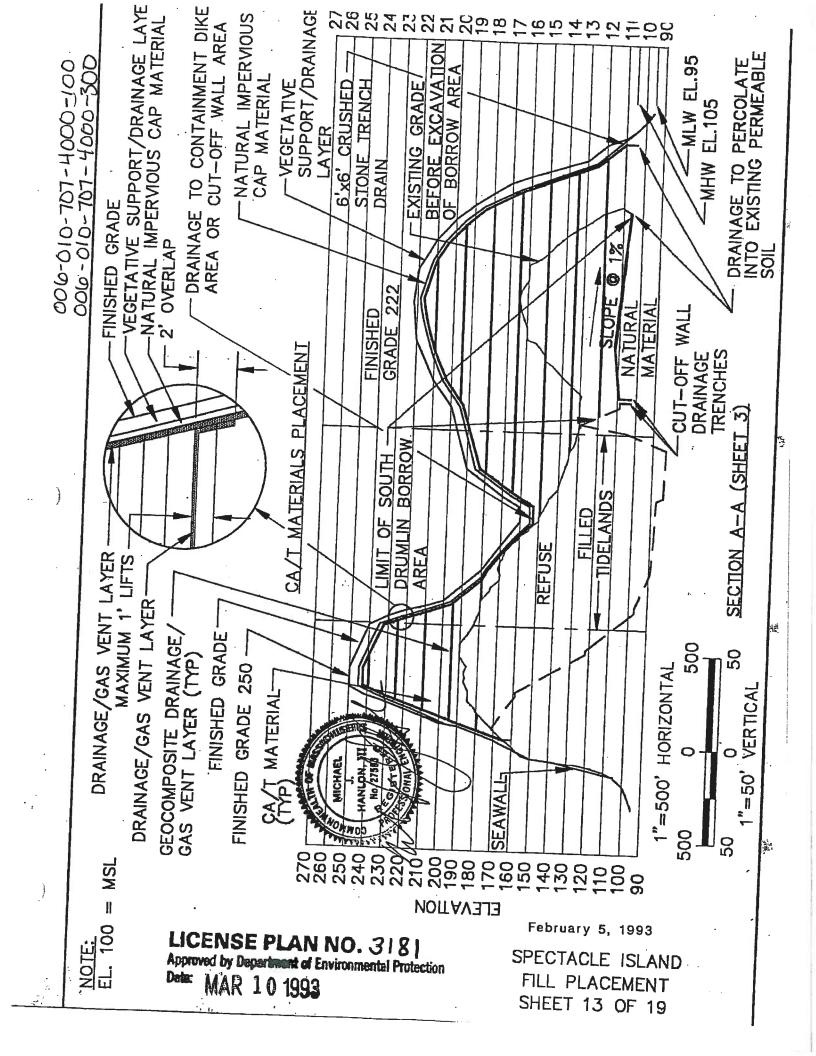
SECTION D-D (SHEET 3)

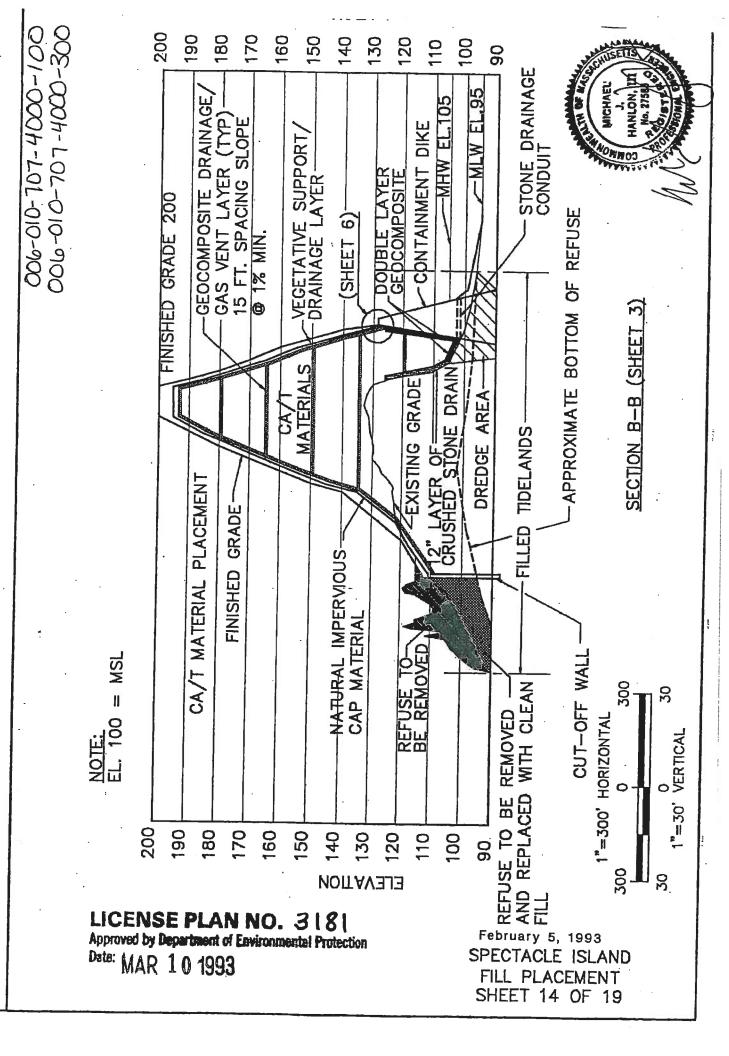
LICENSE PLAN NO. 3181

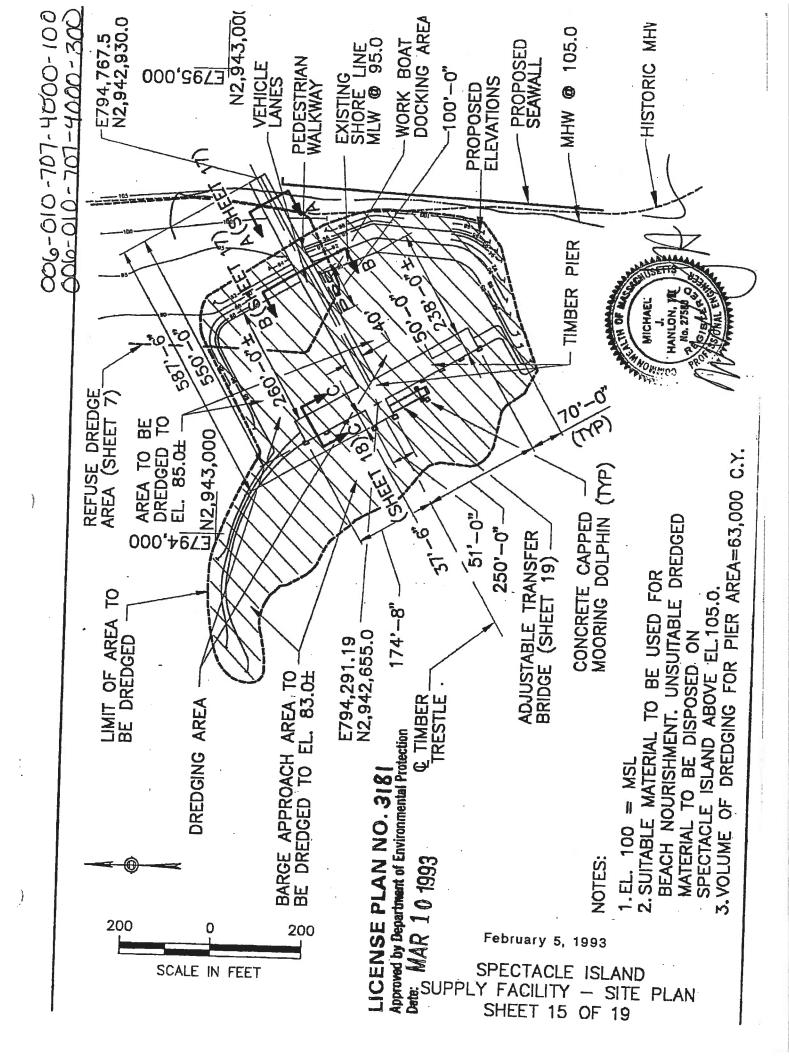
Approved by Department of Environmental Protection Date: MAR 10 1993

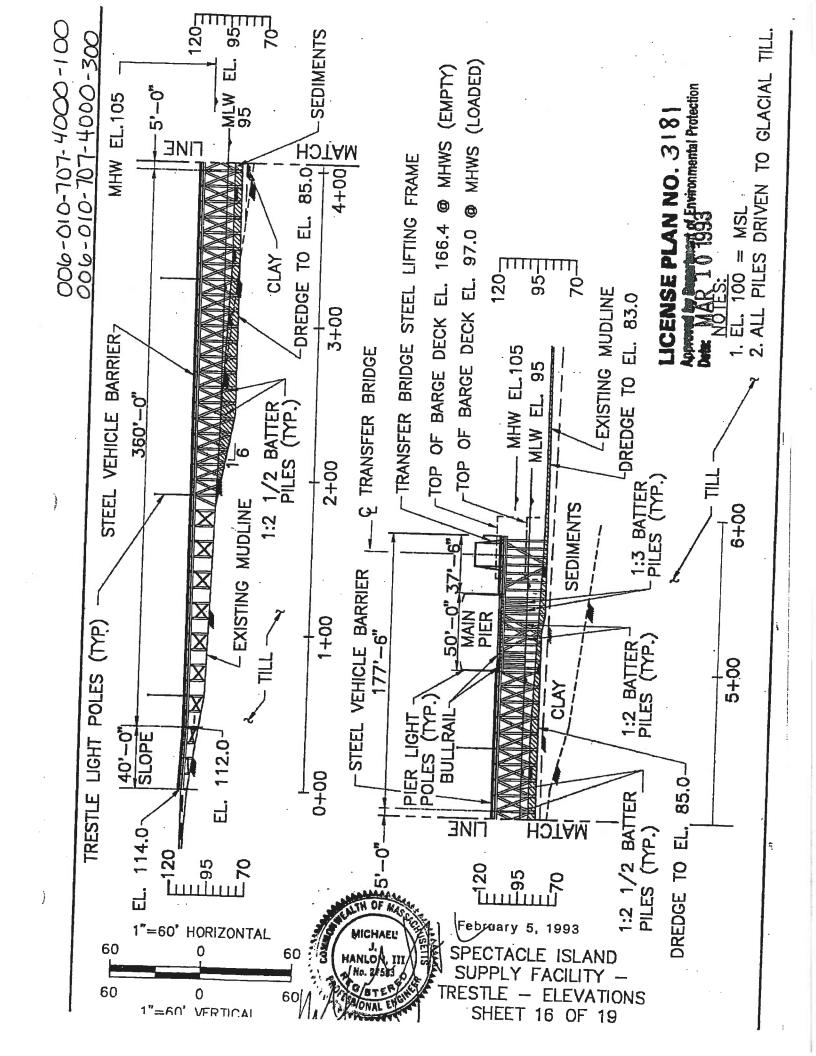
SPECTACLE ISLAND BEACH NOURISHMENT SECTIONS SHEET 12 OF 19

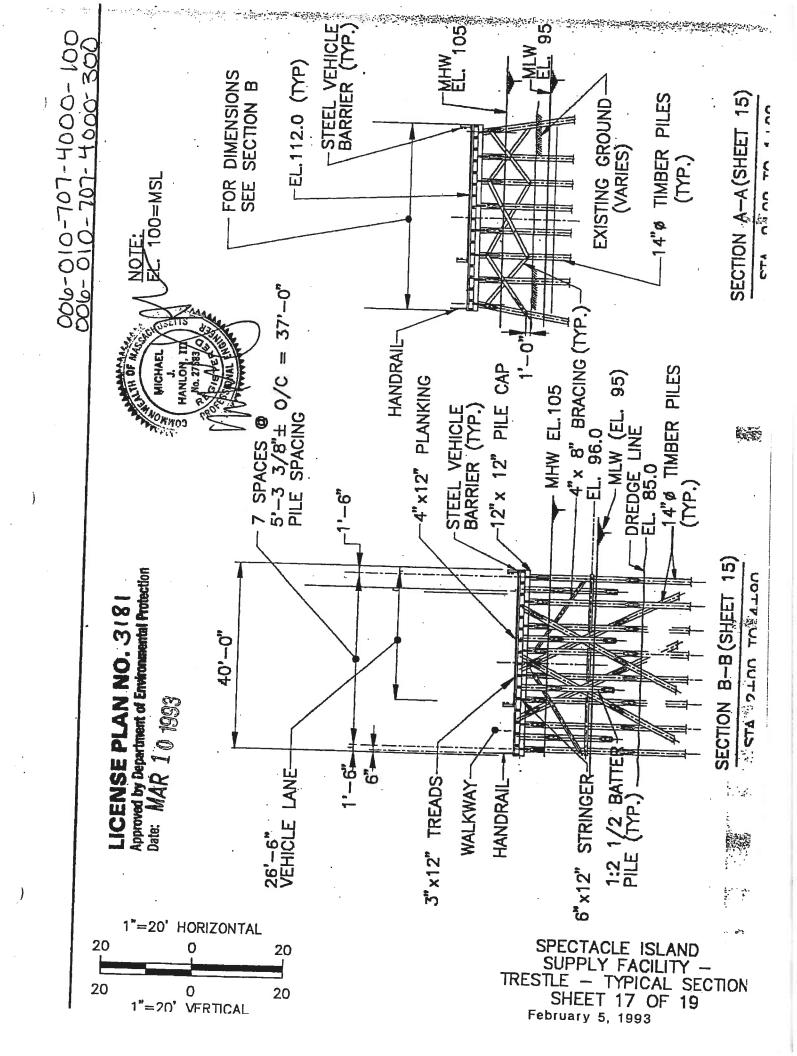
February 5, 1993

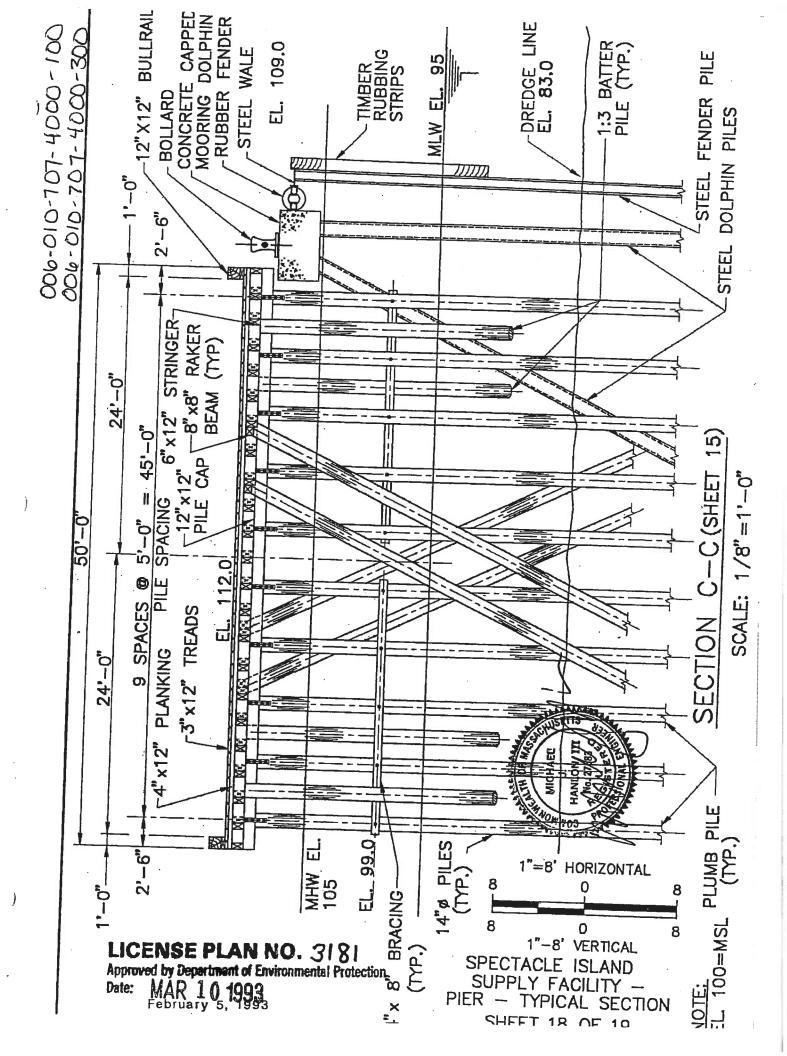


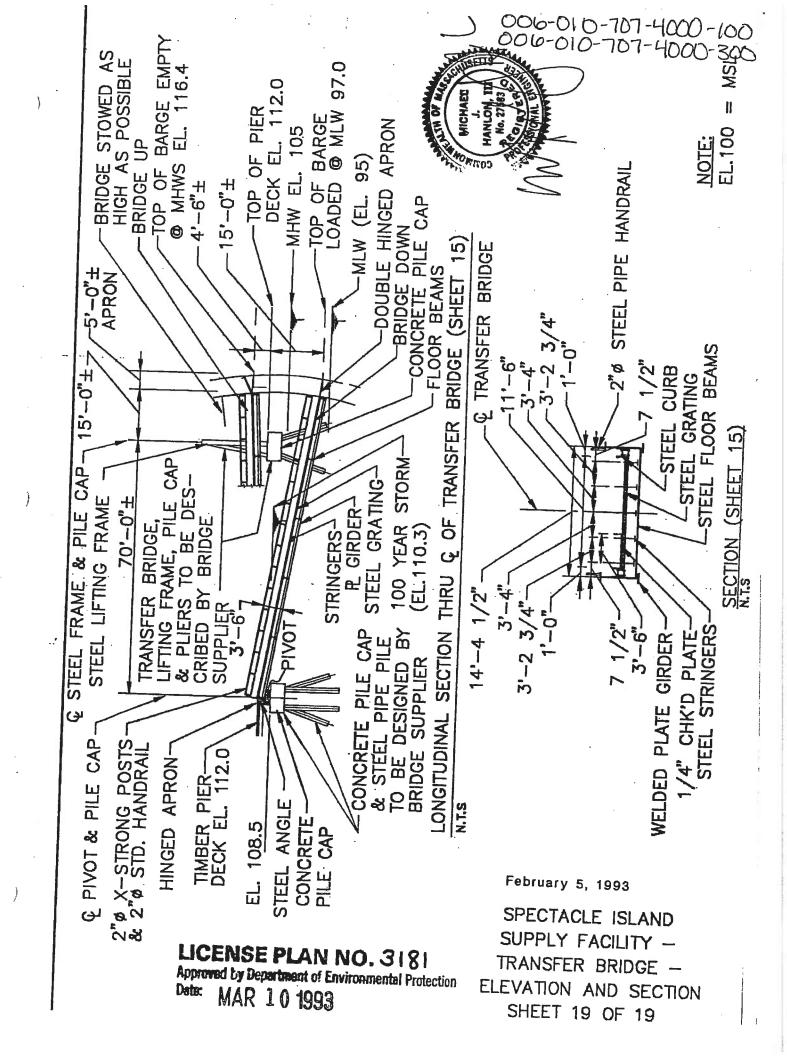












CITY: BOSTON - HARBOR ISLANDS SOURCE: US ACOE LOCATION: CONCORD, MA DATE OF RESEARCH: AUGUST 2007

Description	Timber Bulkhead and Stone Wall
Location	Gallops Island Pler
Sheets	-
ТІВВ	Proposed Pier and Floats in Boston Harbor on Gallops Island, Suffolk County, Massachusetts
Date	May 5, 1975
Municipality	Boston
Entity	USACE
Contract/ Drawing Number	76-15
Document No	006-010-706-5000-300-COE3A
BCE Structure No	006-010-706-5000-300

