

***South Shore Coastal Infrastructure Inventory
and Assessment Demonstration Project
Coastal Hazards Commission***

Town of Scituate



**Prepared for:
Office of Coastal Zone Management
Boston, MA**

February 28, 2007

**Presented by:
Bourne Consulting Engineering
Franklin, Massachusetts**

**In Association With:
Applied Coastal Research & Engineering, Inc.
Alpha Land Surveying & Engineering Associates**

TABLE OF CONTENTS

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 – Community Findings

COMMUNITY DESCRIPTION

STRUCTURE INVENTORY

SUMMARY OF FINDINGS

Section III – Structure Assessment Reports

Section IV – Structure Photographs

Section V – Structure Documents

TOWN DOCUMENT LIST

- Document Table

MA DCR – DOCUMENT LIST

- Document Table

MA DEP – Chp. 91 DOCUMENT LIST

- Document Table
- Copies of License Documents

USACE – PERMIT DOCUMENT LIST

- Document Table
- Copies of Permit Documents

Section I

Town of Scituate

Coastal Hazards Infrastructure and Assessment Program

***South Shore Coastal Infrastructure
Inventory and Assessment Demonstration 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 region included in the demonstration project was identified as the South Shore and included the eight communities of Hingham, Hull, Cohasset, Scituate, Marshfield, Duxbury, Kingston and Plymouth.

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, research and field assessments. Assisting **BCE** was Applied Coastal Research and Engineering, Inc. of Mashpee, MA who was responsible for field assessments and GIS data conversion. Alpha Land Surveying and Engineering of Middleboro, MA also supported the Team with field GPS survey.

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 is the performance of a demonstration project for coastal structures located on the South Shore. The demonstration project will identify existing structures, their general conditions, ability to provide coastal protection and the probable cost for repairs. The information collected and developed will be incorporated into the MassGIS system to allow use for developing a 20 Year Coastal Infrastructure Plan.

As this is a demonstration project, it will serve as the basis for development of a statewide inventory and assessment of all Commonwealth coastal structures and the needs for their maintenance and/or repair. Incorporated into this project will be the identification of issues and limitations of the investigation and



assessment to achieve the overall goals and what should be included in future investigations/assessments of coastal structures for the other regions.

Goals of Study

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

- To be used as the model to go forward for assessment of coastal structures for the remainder of the coastal regions
- To identify areas of research and/or assessment that need to be modified for future phases that were not included within the demonstration project
- Complete the study with the final report by November 15, 2006 for submission to the Coastal Hazards Commission
- To identify all the coastal structures the state either owns or has responsibility to maintain for the eight communities 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.
 - Federal structures were identified but no assessment of conditions or priority was performed.
 - Structures that were determined to be private were not included.
 - 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:
 - No consideration on utility impacts – water, electrical, sewer, gas
 - No consideration of roadway and bridge protection
 - Evacuation routes were not considered within the investigation
 - 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. No investigation of state archives was performed. Research at MA DEP Chp 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-PPP-BBB-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

Property Ownership: 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 the state.

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 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 where 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

Basis of Ownership: 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.

Primary Structure / Secondary Structure: 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.

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

Structure Material: 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.

Priority Rating: 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 determined 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.

Structure Comments: 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.

Pictures: At the time of the field assessments, digital photographs were taken to provide a general overview of the structure. The number of pictures were 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.

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.

USACE Permits: 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:

Structure Condition Ratings – 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 is 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.
- **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.

Height of Structure – Height of a structure is a major factor in the structure cost and therefore was identified as a significant factor in 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

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

Bulkhead / Seawall Structures – 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.

***SOUTH SHORE COASTAL INFRASTRUCTURE
INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT***

- **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.

Groins and Jetties – 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.

Coastal Beaches – 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.

Coastal Dunes – 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.

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

Engineering and Regulatory Approvals – 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.

EXHIBIT A

Structure Condition Table – 5 Level Rating System

Preliminary Condition Assessment		Definition Based Upon Perceived Immediacy of Action and Potential to Cause Damage if Not Corrected	Level of Action Required
A	Excellent	<p>Like new condition. Structure expected to withstand major coastal storm without damage.</p> <p>Stable landform (beach, dune or bank). Adequate system exists to provide protection from major coastal storm</p>	None
B	Good	<p>Structure observed to exhibit very minor problems, superficial in nature. Minor erosion to landform is present.</p> <p>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</p>	Minor
C	Fair	<p>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.</p> <p>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</p>	Moderate
D	Poor	<p>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.</p> <p>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.</p>	Major
F	Critical	<p>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</p> <p>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.</p> <p>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.</p>	Immediate

EXHIBIT B

Priority Rating System - 5 Level Rating System

Preliminary Priority Level Assessment		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
II	Low Priority	Inshore Structures Present with Limited potential for Significant Infrastructure Damage	Future Project Consideration
III	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

**SOUTH SHORE COASTAL INFRASTRUCTURE
INVENTORY AND ASSESSMENT DEMONSTRATION PROJECT**

CZM SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY AND ASSESSMENT PROJECT

EXHIBIT C

September 14, 2006

REPAIR / REHABILITATION COSTING DATA

Cost per linear foot of structure

STRUCTURE TYPE	STRUCTURE MATERIALS	STRUCTURE HEIGHT	STRUCTURE CONDITION RATING				
			A	B	C	D	E
BULKHEAD/ SEAWALL	CONCRETE	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
	STEEL	Under 5 Feet	\$0	\$54	\$273	\$546	\$680
		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
		Over 15 Feet	\$0	\$202	\$1,008	\$2,017	\$2,380
COASTAL BEACH	SAND	Under 5 Feet	\$0	\$26	\$132	\$264	\$264
		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
COASTAL DUNE	SAND	Under 5 Feet	\$0	\$18	\$93	\$186	\$186
		5 To 10 Feet	\$0	\$48	\$238	\$476	\$476
		10 To 15 Feet	\$0	\$79	\$395	\$790	\$790
		Over 15 Feet	\$0	\$132	\$660	\$1,320	\$1,320
REVETMENT	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
GROIN	STONE	Under 5 Feet	\$0	\$157	\$664	\$1,328	\$1,480
		5 To 10 Feet	\$0	\$157	\$1,201	\$2,402	\$2,600
		10 To 15 Feet	\$0	\$157	\$1,564	\$3,128	\$3,392
		Over 15 Feet	\$0	\$157	\$2,468	\$4,937	\$5,333

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

Section II

Town of Scituate

Community Findings

Section II – Community Findings – Town of Scituate

COMMUNITY DESCRIPTION

The Town of Scituate consists of a land area of 17.2 square miles out of a total area of 13.8 square miles and had a population of 17,863 in the 2000 census. The Town is located on the South Shore of Massachusetts and its location can be seen on this report's cover. The estimated length of shoreline that is directly exposed to open ocean waves is 12.0 miles with the remaining shoreline semi-protected by offshore structures or landforms. 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 Scituate, there were 71 publicly owned structures identified which provide significant coastal protection. The location of the structures can be seen in Sheets 1 through Sheet 8 in Section III 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 Scituate

Primary Structure (1)	Total Structures	Structure Condition Rating					Total Length
		A	B	C	D	F	
Bulkhead / Seawall	49	2	22	23	2		26210
Revetment	18		6	9	3		116
Groin / Jetty	3		3				1783
Coastal Dune							
Coastal Beach	1				1		1912
	71	2	31	32	6		30021

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 Scituate's case there are a total of 71 structures which would require approximately \$33.0 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 \$5.0 million would be required to upgrade the Town's coastal protection.

STRUCTURE REPAIR / RECONSTRUCTION COST - Town of Scituate

Primary Structure (1)	Total Structures	Structure Condition Rating					Total Cost
		A	B	C	D	F	
Bulkhead / Seawall	49		\$ 1,951,541	\$ 13,799,943	\$ 1,067,220		\$ 16,818,704
Revetment	18		\$ 598,512	\$ 11,287,388	\$ 1,585,584		\$ 13,471,484
Groin / Jetty	3		\$ 280,073				\$ 280,073
Coastal Dune							\$ -
Coastal Beach	1				\$ 2,422,886		\$ 2,422,886
	71	\$-	\$ 2,830,126	\$ 25,087,331	\$ 5,075,690	\$ -	\$ 32,993,147

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 Scituate the breakdown of structures by assumed ownership is as follows:

STRUCTURE OWNERSHIP / REPAIR COST - Town of Scituate

Primary Structure (1)	Total Structures	Structure Condition Rating					Total Cost
		A	B	C	D	F	
Town Owned	62		2468661	25004502	4264154		\$ 31,737,317
Commonwealth of Massachusetts							\$ -
Federal Government Owned	6						\$ -
Unknown Ownership	2		26858				\$ 26,858
							\$ -
	70	\$-	\$ 2,495,519	\$ 25,004,502	\$ 4,264,154	\$ -	\$ 31,764,175

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 which contains Structure Assessment Reports for each individual structure found.

SUMMARY

The enclosed reports and associated documents reflects the Town of Scituate'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 III

Town of Scituate

Structure Assessment Reports



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006

0 200
SCALE: 1" = 200'

BCE Bourne Consulting Engineering
404 West Colonial Street
Franklin, MA 01902
TEL: (508) 888-6420 FAX: (508) 888-6571

SHEET 1 OF 8

File: X:\26600--\26637\Final Town Report Ortho Drawings\Scituate Report Drawing.dwg



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

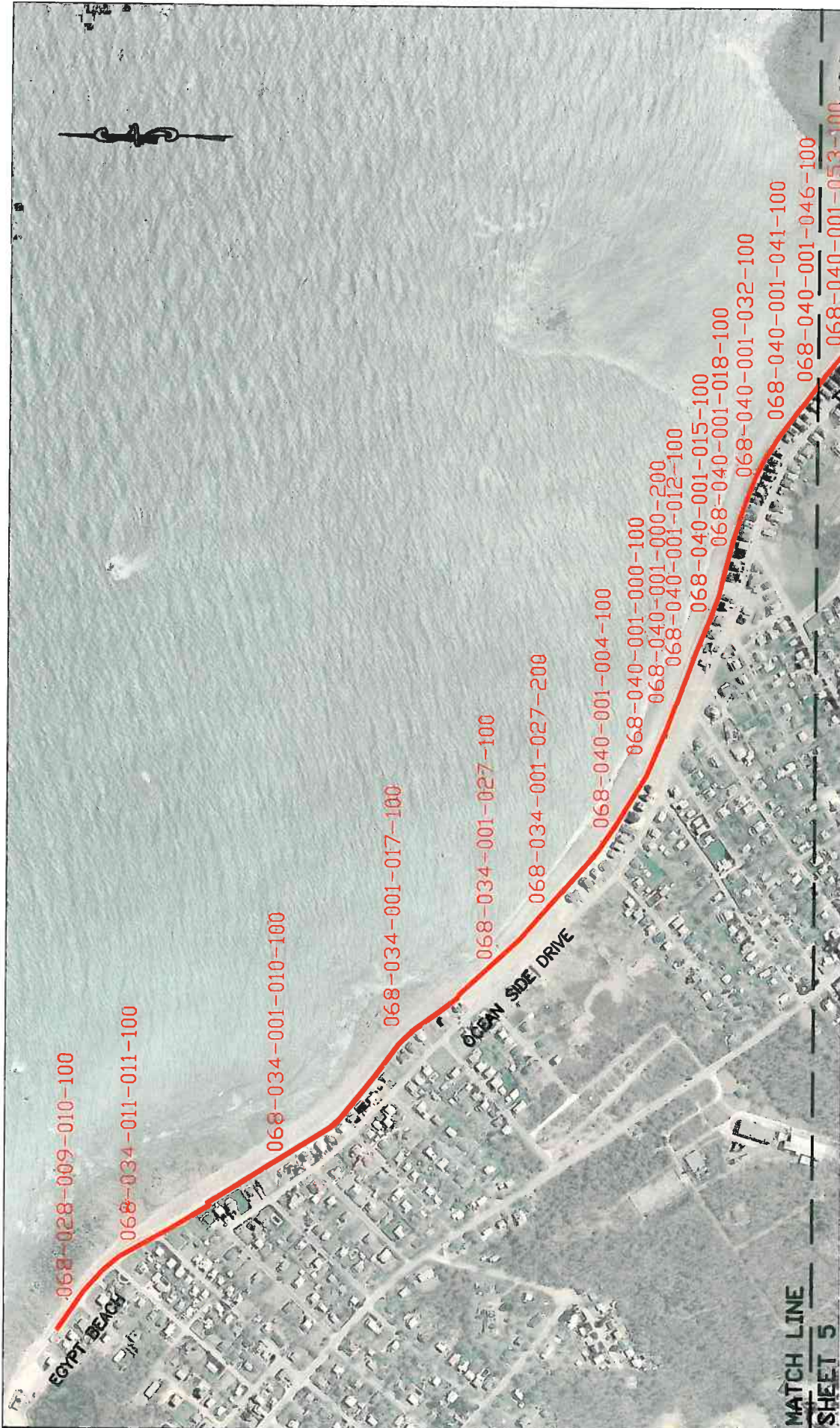
SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006

0 200
SCALE: 1" = 200'

BCE Bourne Consulting Engineering
344 West Central Street
Plymouth, MA 01959
TEL (508) 838-0830 FAX (508) 838-0871

SHEET 2 OF 8



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006



File: X:\26600-26637\Final Town Report Ortho Drawings\Scituate Report Drawing.dwg



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006

0 200
SCALE: 1" = 200'

BCE Bourne Consulting Engineering
300 West Central Street
Plymouth, MA 01959
TEL: (508) 833-0220 FAX: (508) 833-0271

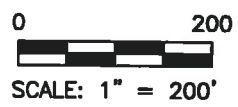
SHEET 4 OF 8

File: X:\26600-26637\Final Town Report Ortho Drawings\Scituate Report Drawing.dwg



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE
SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT
AUGUST 2006



BCE *Bourne Consulting Engineering*
300 West Central Street
Franklin, MA 01902
TEL: (508) 839-0000 FAX: (508) 839-0071

File: X:\26600-26637\Final Town Report Ortho Drawings\Scituate Report Drawing.dwg

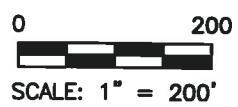


COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

**SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT**

AUGUST 2006



	Bourne Consulting Engineering
	<small>104 West Colonial Street Provincetown, MA 01905 TEL: (508) 885-8220 FAX: (508) 885-8271</small>



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006

0 200
SCALE: 1" = 200'

BCE *Bourne Consulting Engineering*
404 West Central Street
Framingham, MA 01901
TEL (508) 885-0225 FAX (508) 885-0271

SHEET 7 OF 8



COASTAL STRUCTURE LOCATION PLAN

TOWN OF SCITUATE

SOUTH SHORE COASTAL INFRASTRUCTURE INVENTORY
AND ASSESSMENT DEMONSTRATION PROJECT

AUGUST 2006

0 200
SCALE: 1" = 200'

BCE *Bourne Consulting Engineering*
100 West Central Street
Bourne, MA 02532
TEL (508) 869-8200 FAX (508) 869-8271

SHEET 8 OF 8

Structure Assessment Form

Structure ID: 068-004-003-009-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Date:

9/1/2006

Presumed Structure Owner:

Federal

Based On Comment:

DPW - DPW Employee Interview

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$86,394.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
550		13	V4
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Groin/ Jetty

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

Placed rip rap jetty with 1 to 2 ton stones and flat top.

Condition

B

Rating

Good

Level of Action

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.

Priority

I

Rating

None

Action

Long Term Planning Considerations

Description

No Inshore Structures or Residential Dwelling Units Present

Structure Images:

Structure Documents:

SDPW

APR 1997

SHORE

068-004-003-009-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-005-003-040-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Minot Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1946

Estimated Reconstruction/Repair Cost:

\$471,240.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1190	8	VE	22
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a vertical seawall with a fronting stone revetment along the toe. There is also a rubble mound structure approximately 50 feet in front of the seawall which runs parallel to the wall for its entire length.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-003-040-100-PHO1A.jpg

068-005-003-040-100-PHO1B.jpg

Structure Documents:

Commission on

AUG 1917

PROPOSED

068-005-003-040-100-DCR1A

MA DPW

AUG 1933

Proposed Concrete

068-005-003-040-100-DCR1B

MA DPW

APR 1945

Proposed Concrete

068-005-003-040-100-DCR1C

MA DPW

MAY 1946

Proposed Concrete

068-005-003-040-100-DCR1D

SDPW

APR 1997

SHORE

068-005-003-040-100-TWN1A

Structure Assessment Form

Town: **Scituate**Structure ID: **068-005-003-078-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Minot Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1949

Estimated Reconstruction/Repair Cost:

\$36,887.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
243	11	ve	22
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

Structure Summary :

This structure is a vertical concrete seawall with a wave return face. Some sections of the wall have rubble located along the toe. The wall is weathered and exhibits minor cracking and spalling.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-003-078-100-PHO1A.jpg

Structure Documents:

Commission on	AUG 1917	PROPOSED	068-005-003-078-100-DCR1A
MA DPW	AUG 1933	Proposed Concrete	068-005-003-078-100-DCR1B
MA DPW	OCT 1943	Proposed Concrete	068-005-003-078-100-DCR1C
MA DPW	DEC 1949	Proposed Stone Rip	068-005-003-078-100-DCR1D
SDPW	APR 1997	SHORE	068-005-003-078-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-005-003-086-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Minot Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1917

Estimated Reconstruction/Repair Cost:

\$1,859.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
22	11	VE	22
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a low vertical seawall made of concrete. It is fronted by a bedrock outcropping just offshore. Minor cracks and spalling is evident. The northern end has a small section missing at its base.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-003-086-100-PHO1A.jpg

068-005-003-086-100-PHO1B.jpg

Structure Documents:

Commission on

AUG 1917

PROPOSED

068-005-003-086-100-DCR1A

SDPW

APR 1997

SHORE

068-005-003-086-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-005-003-092-100

Key: community-map-block-parcel-structure

Property Owner:

Private

Location:

Minot Beach

Date:

8/1/2006

Presumed Structure Owner:

Unknown

Based On Comment:

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$8,048.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
67	11	VE	22
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a stone revetment fronting a small private structure which appears to be a garage. The single layer of armor stone shows normal weathering and is generally in good condition and functional.

Condition

B

Rating

Good

Level of Action

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.

Priority

II

Rating

Low Priority

Action

Future Project Consideration

Description

Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Images:

068-005-003-092-100-PHO1A.jpg

Structure Documents:

SDPW

SEP 1997

SEAWALL

068-005-003-092-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-005-004-014-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$24,948.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
75	10	VE	22
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a small stone revetment of random placed stone, fronted by bedrock. Much of the stone is not interlocked.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-004-014-100-PHO1A.jpg

Structure Documents:

Structure Assessment FormStructure ID: **068-005-004-016-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$21,252.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
140	10	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a vertical masonry wall with a concrete veneer. Weathering is evident and there is minor cracking along the concrete cap.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-004-016-100-PHO1A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-005-004-018-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$35,904.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
425	10	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a vertical concrete seawall. Minor cracking and spalling is present.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-004-018-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-005-004-019-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$0.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
341	10	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a vertical concrete seawall with a wave return face. All aspects of the structure are like new.

Condition

A

Rating

Excellent

Level of Action

None

Description

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-004-019-100-PHO1A.jpg

068-005-004-019-100-PHO1B.jpg

Structure Documents:

Structure Assessment Form

Town: **Scituate**Structure ID: **068-005-004-033F-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Unknown

Based On Comment:

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$18,810.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
75			
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a vertical concrete seawall with a wave return face. The wall is fronted by a stone revetment.

The concrete shows minor cracking and spalling. The stone is in good condition and appears to be functioning to protect the toe of the wall.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-005-004-033F-100-PHO1A.jpg

Structure Documents:

SDPW

JAN 1979

STONE

068-005-004-033F-100-TWN1A

SDPW

JAN 1979

STONE

068-005-004-033F-100-TWN1B

Structure Assessment Form

Town: **Scituate**

Structure ID: 068-008-004-014-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1958

Estimated Reconstruction/Repair Cost:

\$94,248.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
238		VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a vertical concrete seawall with a recurved cap. The toe is fronted by riprap which is mostly buried in the beach. The wall exhibits cracking and spalling of the concrete consistent with normal weathering.

Condition

B

Rating

Good

Level of Action

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-008-004-014-100-PHO1A.jpg

Structure Documents:

MA DPW

AUG 1958

Proposed Shore

068-008-004-014-100-DCR1A

SDPW

JAN 1979

STONE

068-008-004-014-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-008-005-001-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$1,029,600.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
520	14	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a stone revetment which covers a vertical concrete wall. The wall crest is visible in some areas but otherwise is completely enclosed in the revetment. The armor stone is weathered and has come dislodged in some sections.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-008-005-001-100-PHO1A.jpg

Structure Documents:

SDPW

JAN 1979

STONE

068-008-005-001-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-008-007-003-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1954

Estimated Reconstruction/Repair Cost:

\$1,528,560.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
772	23	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

Structure Summary :

This structure is a concrete seawall with a wave return face. There is also a small toe wall at its base which is fronted by rip rap. There is cracking and spalling along the crest and some larger cracks on the face of the wall.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)



Structure Images:

068-008-007-003-100-PHO1A.jpg

068-008-007-003-100-PHO1B.jpg

Structure Documents:

MA DPW

JAN 1952

Proposed Seawall

068-008-007-003-100-DCR1A

MA DPW

MAR 1954

Proposed Shore

068-008-007-003-100-DCR1B

MA DPW

AUG 1958

Proposed Shore

068-008-007-003-100-DCR1C

SDPW

JAN 1979

STONE

068-008-007-003-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-008-007-006-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Glades Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$475,200.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
240	13	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This is a vertical seawall with a stone revetment placed at the toe of the wall. The wall shows cracking and spalling with some larger cracks evident on the face of the wall. Some undermining of the toe apparent at the south end near the junction with the stairs.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-008-007-006-100-PHO1A.jpg

068-008-007-006-100-PHO1B.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-015-001-002-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$3,260.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
13	319	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face and rip rap at the toe. Minor cracking and spalling is evident along the wall. Some of the cracking looks to have been repaired/filled.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-002-100-PHO1A.jpg

Structure Documents:

SDPW

JAN 1979

STONE

068-015-001-002-100-TWN1A

SDPW

OCT 1992

AS-BUILT

068-015-001-002-100-TWN1B

Structure Assessment Form

Town: Scituate

Structure ID: 068-015-001-006-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$253,453.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
422	14	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a stone revetment. Approximately 25% of the armor stones have become dislodged.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-006-100-PHO1A.jpg

Structure Documents:

SDPW

JAN 1979

STONE

068-015-001-006-100-TWN1A

Structure Assessment Form

Town: **Scituate**Structure ID: **068-015-001-010-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$100,320.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
400	14	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with riprap placed at the toe. The concrete shows minor cracking and spalling but is generally in good condition.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-010-100-PHO1A.jpg

Structure Documents:

SDPW**JAN 1979****STONE****068-015-001-010-100-TWN1A****SDPW****JAN 1979****STONE****068-015-001-010-100-TWN1B**

Structure Assessment FormStructure ID: **068-015-001-017-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

8/18/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$171,917.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
220	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:

**Structure Summary :**

This is a stone revetment which is fronting/covering an old concrete seawall which is in poor condition. The central portion of the revetment shows minor slumping and loss of crest elevation.

Condition**C****Rating****Fair****Level of Action****Moderate****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.

Priority**IV****Rating****High Priority****Action****Consider for Next Project Construction Listing****Description**

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:**068-015-001-017-100-PHO1A.jpg****Structure Documents:****SDPW****JAN 1979****STONE****068-015-001-017-100-TWN1A**

Structure Assessment Form

Town: **Scituate**Structure ID: **068-015-001-019-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Surfside Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$37,620.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
150	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a recurved concrete seawall with riprap placed along the toe. Minor cracking and spalling is evident along the wall.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-019-100-PHO1A.jpg

Structure Documents:

SDPW**JAN 1979****STONE****068-015-001-019-100-TWN1A****SDPW****JAN 1979****STONE****068-015-001-019-100-TWN1B**

Structure Assessment Form

Town: Scituate

Structure ID: 068-015-001-026-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1946

Estimated Reconstruction/Repair Cost:

\$551,760.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
440	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a wave return face concrete seawall with stone placed at the toe. The concrete shows cracking and spalling along the face of the wall, especially just below the top of the return face area. There is a large 20'-30' horizontal crack along the front of the wall which has been repaired.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-026-100-PHO1A.jpg

Structure Documents:

MA DPW	JULY 1964	Proposed Shore	068-015-001-026-100-DCR1A
SDPW	JAN 1979	STONE	068-015-001-026-100-TWN1A
SDPW	OCT 1992	AS-BUILT	068-015-001-026-100-TWN1B
USACE	NOV 2000	SURFSIDE ROAD	068-015-001-026-100-COE1A

Structure Assessment FormStructure ID: **068-015-001-034-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1948

Estimated Reconstruction/Repair Cost:

\$539,220.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
430	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

**Structure Summary :**

This structure is a wave return face concrete seawall with a concrete toe wall and stone riprap along the toe. Cracking and spalling is evident throughout along with severe discoloration of the concrete due to weathering. The wall appears to have rotated slightly with the crest tipping forward by a few inches in sections, relative to the neighboring sections. An inspection of the toe/foundation of the wall is merited.

*Condition***C***Rating***Fair***Level of Action***Moderate***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:**068-015-001-034-100-PHO1A.jpg****Structure Documents:**

MA DPW	NOV 1948	Proposed Shore	068-015-001-034-100-DCR1A
MA DPW	JAN 1949	Proposed Wall	068-015-001-034-100-DCR1B
MA DPW	AUG 1958	Proposed Shore	068-015-001-034-100-DCR1C
MA DPW	FEB 1961	Proposed Shore	068-015-001-034-100-DCR1D
SDPW	JAN 1979	STONE	068-015-001-034-100-TWN1A
USACE	APR 2006	MORTARED STONE	068-015-001-034-100-COE1A
USACE	NOV 2006	SURFSIDE ROAD	068-015-001-034-100-COE1B

Structure Assessment Form

Town: Scituate

Structure ID: 068-015-001-038-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

Presumed Structure Owner:

Private

Based On Comment:

Property Ownership

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$475,200.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
120	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with rip rap along the toe of the wall. This section of the wall jutting out from the adjacent seawalls and protects a single house behind it. The stone along the toe at the north corner has been grouted and this north corner of the wall itself is the most worn. There is severe cracking and spalling along the face of the seawall, along the crest and at the section joints. The material behind

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-038-100-PHO1A.jpg

068-015-001-038-100-PHO1B.jpg

068-015-001-038-100-PHO1C.jpg

Structure Documents:

MA DPW NOV 1948

MA DPW JAN 1949

MA DPW AUG 1958

MA DPW FEB 1961

SDPW JAN 1979

USACE APR 2006

Proposed Shore 068-015-001-038-100-DCR1A

Proposed Wall 068-015-001-038-100-DCR1B

Proposed Shore 068-015-001-038-100-DCR1C

Proposed Shore 068-015-001-038-100-DCR1D

STONE 068-015-001-038-100-TWN1A

MORTARED STONE 068-015-000-038-100-COE1A

Structure Assessment Form

Town: **Scituate**Structure ID: **068-015-001-044-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1948

Estimated Reconstruction/Repair Cost:

\$772,200.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
390	13		
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face cap and riprap at the toe. Strong weathering and discoloration are evident. Some sections of the crest exhibit minor displacement forward. There is steel sheetpile driven at the toe which has started to become exposed in some sections.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-044-100-PHO1A.jpg

Structure Documents:

MA DPW	NOV 1948	Proposed Shore	068-015-001-044-100-DCR1A
MA DPW	JAN 1949	Proposed Wall	068-015-001-044-100-DCR1B
MA DPW	AUG 1958	Proposed Shore	068-015-001-044-100-DCR1C
MA DPW	FEB 1961	Proposed Shore	068-015-001-044-100-DCR1D
DEP CH.91	MAY 6, 1994	PLANS	068-015-001-044-100-LIC1A
SDPW	JAN 1979	STONE	068-015-001-044-100-TWN1A
USACE	MAY 1992	BARRIER MOUND	068-015-001-044-100-COE1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-015-001-044-200

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1948

Estimated Reconstruction/Repair Cost:

\$279,180.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
141	13	VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Over 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a stone revetment fronting a seawall/foundation of the single home behind it. The stone is weathered and displaced in some areas, espically at the south end due to possible end effects of being the end of this very long section of armored coastline.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-015-001-044-200-PHO2A.jpg

Structure Documents:

MA DEQE

NOV 1968

Proposed Shore

068-015-001-044-200-DCR2A

USACE

1993

STONE

068-015-001-044-200-COE2A

Structure Assessment Form

Town: Scituate

Structure ID: 068-022-008-011F-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

North Scituate Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$298,452.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1900		VE	21
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a cobble berm, located back from the normal surf zone where it functions as storm protection. The majority of this berm fronts Musquashicut Pond. A typical 2-tiered cross section is evident. The crest is even and wide for the length of the structure. Some overwash occurs as evidenced by areas of slight reduction of crest elevation and bulge of cobble material along the back slope of the berm.

Condition

B

Rating

Good

Level of Action

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.

Priority

II

Rating

Low Priority

Action

Future Project Consideration

Description

Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Images:

068-022-008-011F-100-PHO1A.jpg

Structure Documents:

TOWN OF SCITU

MAY 1995

BARRIER MOUND

068-022-008-011-100-COE1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-028-009-010-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Egypt Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$177,606.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
234	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with riprap at the toe. There is severe cracking and spalling along the face and crest of the wall. The rebar is exposed and rusted in some areas. The toe of the wall is almost exposed in some areas.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-028-009-010-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-034-001-010-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$329,406.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
775	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a small concrete seawall. The cobble beach fronting the wall has been pushed up against the wall, covering the crest in certain sections. Cobble is evident behind the wall. The wall itself shows moderate cracking and spalling throughout.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-034-001-010-100-PHO1A.jpg

Structure Documents:

MA DPW

AUG 1933

Proposed Shore

068-034-001-010-100-DCR1A

MA DPW

AUG 1933

Proposed Shore

068-034-001-010-100-DCR1B

SDPW

MAR 1979

TOWN OF

068-034-001-010-100-TWN1A

Structure Assessment FormStructure ID: **068-034-001-017-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$1,677,390.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
2210	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

**Structure Summary :**

This is a concrete seawall with some random placed stone in front along certain sections. There is cracking and spalling evident and many portions of the wall face and the crest has been resurfaced and repaired.

Condition**C****Rating****Fair****Level of Action****Moderate****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.

Priority**IV****Rating****High Priority****Action****Consider for Next Project Construction Listing****Description**

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:**068-034-001-017-100-PHO1A.jpg****068-034-001-017-100-PHO1B.jpg****Structure Documents:****MA DPW****AUG 1933****Proposed Shore****068-034-001-017-100-DCR1A****MA DEQE****NOV 1967****Proposed Shore****068-034-001-017-100-DCR1B****MA DEQE****DEC 1969****Proposed Flood****068-034-001-017-100-DCR1C****SDPW****MAR 1979****TOWN OF****068-034-001-017-100-TWN1A****USACE****JUL 20 2001****OCEAN DRIVE****068-034-001-017-100-COE1A**

Structure Assessment Form

Town: Scituate

Structure ID: 068-034-001-027-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1993

Estimated Reconstruction/Repair Cost:

\$592,020.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
390	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This is a concrete seawall with armor stone placed in front of it. The majority of the structure is broken, falling forward and generally failing

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-034-001-027-100-PHO1A.jpg

068-034-001-027-100-PHO1B.jpg

Structure Documents:

MA DPW

AUG 1933

Proposed Shore

068 034-001-027-100-DCR1A

USACE

JUL 20 2001

OCEAN DRIVE

068-034-001-027-100-COE1A

Structure Assessment Form

Town: **Scituate**Structure ID: **068-034-001-027-200**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1993

Estimated Reconstruction/Repair Cost:

\$216,315.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
285	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

Structure Summary :

This is a concrete seawall with some armor stone placed in front of it. This section of the wall shows severe cracking and spalling with the rebar having been exposed in some areas.

*Condition*

C

Rating

Fair

Level of Action

Moderate

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-034-001-027-200-PHO2A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-034-011-011-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Egypt Beach

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$1,321,320.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
2200	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a revetment of dumped and random placed stone. The side slopes and structure crest vary considerably along the length of the structure. There is little to no interlocking between the armor stone. Slumping/movement is apparent along approximately 50% of the structure.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-034-011-011-100-PHO1B.jpg

068-034-011-011-100-PHO1A.jpg

Structure Documents:

SDPW

MAR 1979

TOWN OF

068-034-011-011-100-TWN1A

Structure Assessment Form

Town: **Scituate**Structure ID: **068-040-001-000-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1951

Estimated Reconstruction/Repair Cost:

\$56,681.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
226	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with riprap placed at the toe. The armor stone along the toe is partially buried by the sand beach. The concrete shows normal weathering. The eastern terminus is a beach accessway and some spalling is evident here.

Condition

B

Rating

Good

Level of Action

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-040-001-000-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-040-001-000-200

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1951

Estimated Reconstruction/Repair Cost:

\$65,208.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
260	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a stone revetment along the toe. Minor cracking and spalling are occurring but the structure is generally in good condition.

Condition

B

Rating

Good

Level of Action

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-040-001-000-200-PHO2A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-040-001-004-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$815,100.00

Length:

650

Feet

Top Elevation:

12

Feet NAVD 88

FIRM Map Zone:

V6

FIRM Map Elevation:

20

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This is a vertical concrete seawall with riprap placed along the toe. The surface of the wall is heavily spalled and there are frequent large cracks on the wall's surface. Some other areas have been resurfaced and patched.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-004-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: **Scituate**Structure ID: **068-040-001-012-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$32,604.00

Length:

130

Feet

Top Elevation:

12

Feet NAVD 88

FIRM Map Zone:

VE

FIRM Map Elevation:

20

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This is a concrete seawall with a wave return face and riprap along the toe. The armor stone along the base of the wall shows some breakage. The wall is in good condition.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-012-100-PHO1A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-040-001-015-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$32,604.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
130	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a vertical seawall with riprap placed along the toe. The wall shows some cracking and spalling along the surface but is generally in good condition.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-015-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-040-001-018-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$250,800.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
200	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with armor stone placed along the toe. Heavy cracking and spalling is evident along the surface of the wall.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-018-100-PHO1A.jpg

068-040-001-018-100-PHO1B.jpg

Structure Documents:

MA DPW

OCT 1955

Proposed Shore

068-040-001-018-100-DCR1A

Structure Assessment FormTown: **Scituate**

Structure ID: 068-040-001-032-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Ocean Side Drive

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1955

Estimated Reconstruction/Repair Cost:

\$182,081.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
726	11	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

**Structure Summary :**

This structure is a concrete seawall with a wave return face and riprap along the toe. Approximately 75% of the armor stone at the base of the wall has been grouted. The wall and stone are generally in good condition.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-032-100-PHO1A.jpg

068-040-001-032-100-PHO1B.jpg

Structure Documents:

MA DPW

JAN 1951

Shore Protection

068-040-001-032-100-DCR1A

MA DPW

NOV 1953

Seawall and Rip Rap

068-040-001-032-100-DCR1B

MA DPW

OCT 1955

Proposed Shore

068-040-001-032-100-DCR1C

MA DPW

AUG 1958

Proposed Shore

068-040-001-032-100-DCR1D

MA DEQE

JAN 1971

Proposed Shore

068-040-001-032-100-DCR1E

Structure Assessment FormTown: **Scituate**Structure ID: **068-040-001-041-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Turner Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$226,974.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
181	11	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face cap and grouted armor stone along the base. There is also a small concrete toewall at the base which has become exposed. The main wall shows some cracking and spalling. The undermining of the toe wall is cause for concern.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-041-100-PHO1A.jpg

068-040-001-041-100-PHO1B.jpg

Structure Documents:

MA DPW

JAN 1951

Shore Protection

068-040-001-041-100-DCR1A

Structure Assessment FormStructure ID: **068-040-001-046-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Turner Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$23,324.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
93	11	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a recurved cap and riprap along the toe. Surface cracking and spalling is seen along the concrete wall.

*Condition***B***Rating***Good***Level of Action***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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-046-100-PHO1A.jpg

Structure Documents:

DEP CH.91**NOV. 22, 19****PLAN****068-040-001-046-100-LIC1A**

Structure Assessment Form

Town: Scituate

Structure ID: 068-040-001-053-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Turner Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$1,567,500.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1250	11	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face cap and riprap along the toe. The wall shows cracking and spalling along greater than 50% of the crest. The stone at the base of the wall is unraveled for most of the length.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-040-001-053-100-PHO1A.jpg

Structure Documents:

DEP CH.91

NOV. 22, 19

PLAN

068-040-001-053-100-LIC1A

SDPW

1980

RECONSTRUCTION

068-040-001-053-100-TWN1A

USACE

AUG 1996

WALL OPENING

068-040-001-053-100-COE1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-046-001-000-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1960

Estimated Reconstruction/Repair Cost:

\$356,730.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
470	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face. Minor cracking and weathering is seen. There are signs of an old revetment fronting the wall which is now buried by the cobble beach. The final 100 feet or so at the south end of the structure shows marked wear at the base of the wall, where much of the surface of the wall has been worn away. This worn section at the base of the wall needs to be addressed

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-001-000-100-PHO1A.jpg

068-046-001-000-100-PHO1B.jpg

Structure Documents:

MA DPW

JAN 1960

Proposed Shore

068-046-001-000-100-DCR1A

USACE

APR 2006

STONE

068-046-001-000-100-COE1A

Structure Assessment FormTown: **Scituate**Structure ID: **068-046-001-000-200**

Key: community-map-block-parcel-structure

Property Owner:

Federal

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Federal

Based On Comment:

Offshore Structure

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$142,314.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
906	12		
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Groin/ Jetty

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:

**Structure Summary :**

This structure is the main rubble mound jetty at the entrance to Scituate harbor. The crest and sideslopes are level and sharp. There is some unraveling of the armor stone at the head of the jetty and a few isolated cases of broken armor stones. In general the structure is in good shape.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-001-000-200-PHO2A.jpg

068-046-001-000-200-PHO2B.jpg

068-046-001-000-200-PHO2C.jpg

068-046-001-000-200-PHO2D.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-046-001-000-300

Key: community-map-block-parcel-structure

Property Owner:

Federal

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Federal

Based On Comment:

Offshore Structure

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$54,534.00

Length: Top Elevation:

454

FIRM Map Zone:

VE

FIRM Map Elevation:

20

Feet Feet NAVD 88

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a rubble mound spur jetty just inside the entrance to Scituate Harbor. The armor stones are in good condition and the crest and sideslopes are intact.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-001-000-300-PHO3A.jpg

Structure Documents:

MA DPW

JUN 1926

PROPOSED JETTY,

068-046-001-000-300-COE3A

068-046-001-000-300-PHO3B.jpg

Structure Assessment Form

Town: Scituate

Structure ID: 068-046-001-014-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$214,038.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
282	12	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a concrete seawall. There is cracking and spalling evident throughout, some sections are showing quite heavy damage.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-001-014-100-PHO1A.jpg

068-046-001-014-100-PHO1B.jpg

Structure Documents:

USACE

APR 2006

STONE

068-046-001-014-100-COE1A

Structure Assessment FormTown: **Scituate**

Structure ID: 068-046-001-044-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$112,860.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
90	10	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a recurved cap and riprap placed along the toe. The wall shows significant cracking and spalling throughout.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-001-044-100-PHO1A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-046-005-015-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Cedars Point

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1940

Estimated Reconstruction/Repair Cost:

\$203,844.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1697		AE	11
Feet	Feet NAVD 88		Feet NGVD

Primary Type:	Primary Material:	Primary Height:
Revetment	Stone	5 to 10 Feet
Secondary Type:	Secondary Material:	Secondary Height:

**Structure Summary :**

This structure is a stone revetment which runs along the northern edge of Scituate Harbor. The armor stones exhibit normal weathering and some have become displaced in small sections.

<i>Condition</i>	B
<i>Rating</i>	Good
<i>Level of Action</i>	Minor
<i>Description</i>	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.

<i>Priority</i>	IV
<i>Rating</i>	High Priority
<i>Action</i>	Consider for Next Project Construction Listing
<i>Description</i>	High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-046-005-015-100-PHO1A.jpg

068-046-005-015-100-PHO1B.jpg

Structure Documents:

MA DPW	APR 1954	Proposed Shore	068-046-005-015-100-DCR1A
--------	----------	----------------	---------------------------

MA DPW	MAY 1940	Proposed Shore	068-046-005-015-100-DCR1B
--------	----------	----------------	---------------------------

MA DPW	MAY 1946	Proposed Shore	068-046-005-015-100-DCR1C
--------	----------	----------------	---------------------------

MA DPW	APR 1954	Proposed Shore	068-046-005-015-100-DCR1D
--------	----------	----------------	---------------------------

Structure Assessment Form

Town: Scituate

Structure ID: 068-046-006-004-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Jericho Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$84,269.00

Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

336

VE

13

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a wave return face and stone revetment at the base. The wall and stone are in good condition.

Condition

B

Rating

Good

Level of Action

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.

Priority

II

Rating

Low Priority

Action

Future Project Consideration

Description

Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Images:

068-046-006-004-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-050-001-000-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Front St.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$50,160.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
200		AE	12
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:

Structure Summary :

This structure is a stone revetment fronting a concrete seawall with railing. The wall and railing show some cracking and rusting. The stone slope is beginning to unravel and slump at the northeast corner.

*Condition*

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-050-001-000-100-PHO1A.jpg

Structure Documents:

DEP CH.91	DEC. 31, 19	PLAN TO	068-050-001-000-100-LIC1A
DEP CH.91	JULY 8, 192	PLAN TO	068-050-001-000-100-LIC1B
DEP CH.91	NOV. 6, 198	PLAN	068-050-001-000-100-LIC1C

Structure Assessment Form

Town: Scituate

Structure ID: 068-050-001-000-200

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Front St.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$1,003,200.00

Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

800

AE

12

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with railing fronted by a stone revetment. The revetment shows weathering and cracked stone with some slumping evident. The wall is cracked and spalled and the railing is bent and rusted in sections.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-050-001-000-200-PHO2A.jpg

068-050-001-000-200-PHO2B.jpg

Structure Documents:

DEP CH.91

DEC. 31, 19

PLAN TO

068-050-001-000-200-LIC1A

DEP CH.91

JULY 8, 192

PLAN TO

068-050-001-000-200-LIC1B

DEP CH.91

NOV. 6, 198

PLAN

068-050-001-000-200-LIC1C

Structure Assessment Form

Town: Scituate

Structure ID: 068-050-001-000-300

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Front St.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$162,162.00

Length:

270

Top Elevation:

Feet NAVD 88

FIRM Map Zone:

AE

FIRM Map Elevation:

12

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a revetment of random placed and dumped stone along the backside of a parking lot. The stone is weathered and slumping.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-050-001-000-300-PHO3A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-050-001-001-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Beaver Dam Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1957

Estimated Reconstruction/Repair Cost:

\$116,120.00

Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

463

AE

12

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Steel

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a sheet pile pier. The sheetpiling and wooden piles around the perimeter look weathered but sound. The toe/foundation of the pier is not accessible to be rated as it is under water.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-050-001-001-100-PHO1A.jpg

Structure Documents:

MA DPW	FEB 1957	Proposed Pier	068-050-001-001-100-DCR1A
DEP CH.91	APRIL 30, 1	PLAN	068-050-001-001-100-LIC1A
DEP CH.91	MAY 26, 198	PLAN	068-050-001-001-100-LIC1B
TOWN OF SCITU	DEC 1984	PERMIT REQUEST	068-050-001-001-100-COE1A

Structure Assessment FormTown: **Scituate**Structure ID: **068-050-001-041-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Beaver Dam Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1957

Estimated Reconstruction/Repair Cost:

\$0.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
116		AE	12
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

10 to 15 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a concrete seawall with a railing and a stone revetment at its base. Both the wall and revetment are in good condition. There is minor cracking along the wall crest.

*Condition***A***Rating***Excellent***Level of Action***None***Description*

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.

*Priority***IV***Rating***High Priority***Action***Consider for Next Project Construction Listing***Description*

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-050-001-041-100-PHO1A.jpg

Structure Documents:

MA DPW**APR 1957****Proposed Seawall****068-050-001-041-100-DCR1A****DEP CH.91****APRIL 30, 1****PLAN****068-050-001-041-100-LIC1A**

Structure Assessment FormTown: **Scituate**

Structure ID: 068-050-007-026-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Bridge Ave.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$18,018.00

Length:

150

Feet

Top Elevation:

Feet NAVD 88

FIRM Map Zone:

AE

FIRM Map Elevation:

12

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a revetment of random placed and dumped stone along the East side of the bridge along Edward Foster Road/Bridge Avenue. The revetment is weathered and shows some minor slumping.

Condition

B

Rating

Good

Level of Action

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.

Priority

II

Rating

Low Priority

Action

Future Project Consideration

Description

Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Images:

068-050-007-026-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-050-007-026-200

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Bridge Ave.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$15,616.00

Length: Top Elevation:

130

FIRM Map Zone:

AE

FIRM Map Elevation:

12

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a revetment of random placed and dumped stone along the West side of the bridge along Edward Foster Road/Bridge Avenue. The revetment is weathered and shows some minor slumping.

Condition

B

Rating

Good

Level of Action

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.

Priority

II

Rating

Low Priority

Action

Future Project Consideration

Description

Inshore Structures Present with Limited potential for Significant Infrastructure Damage

Structure Images:

068-050-007-026-200-PHO2A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-051-001-001-100

Key: community-map-block-parcel-structure

Property Owner:

Federal

Location:

First Cliff

Date:

8/3/2006

Presumed Structure Owner:

Federal

Based On Comment:

Offshore Structure

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$51,365.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
327		VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Groin/ Jetty

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a rubble mound jetty at the south side of the entrance to Scituate Harbor. The crest and side slopes are consistent elevation and slope. There is also a stone apron at the seaward toe which wraps around the head of the structure. This apron is also in good condition. There are a few armor units which have cracked and at least which has been displaced.

Condition

B

Priority

IV

Rating

Good

Rating

High Priority

Level of Action

Minor

Action

Consider for Next Project Construction 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

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-001-001-100-PHO1A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-051-001-008-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

First Cliff

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1956

Estimated Reconstruction/Repair Cost:

\$1,338,607.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1713	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a rubble mound revetment around the perimeter of First Cliff. Some of the armor stone is cracked and there are sections which are beginning to unravel.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-001-008-100-PHO1A.jpg

068-051-001-008-100-PHO1B.jpg

Structure Documents:

MA DPW

SEP 1956

Proposed Shore

068-051-001-008-100-DCR1A

MA DPW

OCT 1949

Proposed Shore

068-051-001-008-100-DCR1A

FDAP

MAR 1997

SHORE

068-051-001-008-100-TWN1A

SDPW

1980

RECONSTRUCTION

068-051-001-008-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-051-002-004-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

First Cliff

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$61,479.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
405	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

5 to 10 Feet

Secondary Type:

Revetment

Secondary Material:

Stone

Secondary Height:



Structure Summary :

This structure is a vertical concrete seawall with wave return face. The is a sand beach and riprap fronting the wall in the northern and western section. The wall shows minor cracking and spalling.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-002-004-100-PHO1A.jpg

068-051-002-004-100-PHO1B.jpg

Structure Documents:

FDAP

MAR 1997

SHORE

068-051-002-004-100-TWN1A

SDPW

1980

RECONSTRUCTION

068-051-002-004-100-TWN1A

Structure Assessment Form

Town: Scituate

Structure ID: 068-051-002-005-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1955

Estimated Reconstruction/Repair Cost:

\$47,985.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
568	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a concrete seawall. It is a continuation of the adjacent structure but without the fronting revetment and now with a approximately 3feet high concrete cap block along the crest. The wall is in decent shape and shows only minor weathering.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-002-005-100-PHO1A.jpg

Structure Documents:

MA DPW	JUN 1955	Proposed Shore	068-051-002-005-100-DCR1A
MA DPW	SEP 1956	Proposed Shore	068-051-002-005-100-DCR1B
Commission on	DEC 1903	Plan of Proposed	068-051-002-005-100-DCR1C

Structure Assessment FormTown: **Scituate**

Structure ID: 068-051-002-005-200

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1955

Estimated Reconstruction/Repair Cost:

\$68,431.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
161	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a concrete seawall with a 3feet high concrete cap placed on the crest. This section is a continuation of adjacent structure but is in worse condition. Cracking and spalling is evident throughout.

Condition

C

Priority

IV

Rating

Fair

Rating

High Priority

Level of Action

Moderate

Action

Consider for Next Project Construction Listing

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.

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-002-005-200-PHO2A.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-051-002-008-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$377,626.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
4470	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This is a concrete seawall with a wave return face fronted by a cobble beach. The wall shows minor cracking and spalling and is generally in good condition.

Condition

B

Rating

Good

Level of Action

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-051-002-008-100-PHO1A.jpg

Structure Documents:

Structure Assessment FormTown: **Scituate**

Structure ID: 068-051-003-020-100

Key: community-map-block-parcel-structure

Property Owner:

Federal

Location:

Date:

9/1/2006

Presumed Structure Owner:

Federal

Based On Comment:

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$336,336.00

Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

280

A4

10

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

Dumped rip rap slope (45 degrees) with no defined toe or top. Erosion thru and inshore of rip rap. 1 to 2 ton stones typical. Some movement of stones.

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-051-003-020-200**

Key: community-map-block-parcel-structure

Property Owner:

Federal

Location:

Date:

Presumed Structure Owner:

Federal

Based On Comment:

Owner Name:

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$82,829.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
131		A4	10
Feet	Feet NAVD 88		Feet NGVD

Primary Type:	Primary Material:	Primary Height:
Bulkhead/ Seawall	Wood	5 to 10 Feet

Secondary Type:	Secondary Material:	Secondary Height:
Revetment	Stone	

**Structure Summary :**

Timber bulkhead forming filled wharf with revetment on south side (500 to 1000 lb. stone). North side has concrete blocks and cobble beach. Pile supported building and pier outshore of bulkhead.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

I

Rating

None

Action

Long Term Planning Considerations

Description

No Inshore Structures or Residential Dwelling Units Present

Structure Images:

Structure Documents:

Structure Assessment FormTown: **Scituate**Structure ID: **068-056-005-010-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Edward Foster Rd.

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1951

Estimated Reconstruction/Repair Cost:

\$2,072,222.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1679	20	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

Over 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:

**Structure Summary :**

This structure is a rubble mound revetment along the base of Second Cliff. The revetment is in good shape on the whole, but there are 3 to 4 large areas which have slumped and become unraveled from toe to crest. These failing areas threaten the stability of the surrounding good sections and should be repaired before further damage spreads.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-056-005-010-100-PHO1A.jpg

068-056-005-010-100-PHO1B.jpg

068-056-005-010-100-PHO1C.jpg

Structure Documents:

MA DPW

NOV 1949

Proposed Shore

068-056-005-010-100-DCR1A

MA DPW

MAY 1951

Proposed Bank

068-056-005-010-100-DCR1B

MA DPW

APR 1956

Proposed Extension

068-056-005-010-100-DCR1C

Structure Assessment FormTown: **Scituate**

Structure ID: 068-056-005-014-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Second Cliff

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$425,885.00

Length: Top Elevation: FIRM Map Zone: FIRM Map Elevation:

545

20

VE

19

Feet

Feet NAVD 88

Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

10 to 15 Feet

Secondary Type:

Secondary Material:

Secondary Height:

**Structure Summary :**

This is a stone revetment which covers the end of Second Cliff as it loses elevation and transitions into Peggotty Beach. The revetment side slopes and crest appear in good condition but close examination of the side slopes revealed large voids between armor stones, some voids reaching 3 to 4 feet.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-056-005-014-100-PHO1A.jpg

068-056-005-014-100-PHO1B.jpg

Structure Documents:

Structure Assessment Form

Town: Scituate

Structure ID: 068-055-008-006-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Peggotty Beach

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DPW - DPW Employee Interview

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$2,422,886.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
1912	16	VE	23
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Coastal Beach

Primary Material:

Sand

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a stretch of sandy shoreline know as Peggotty Beach. The beach width is narrow and the high water rack line is onto the road (Town Way Ext.) suggesting that the beach is highly eroded.

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-055-008-006-100-PHO1A.jpg

Structure Documents:

USACE

JUNE 12 20

2ND CLIFF

068-055-008-006-100-COE1A

Structure Assessment FormTown: **Scituate**Structure ID: **068-060-001-051-100**

Key: community-map-block-parcel-structure

Property Owner:**Local****Location:****Third Cliff****Date:****8/3/2006****Presumed Structure Owner:****Local****Based On Comment:****DCR – Contract Drawings****Owner Name:****Scituate****Earliest Structure Record:****1954****Estimated Reconstruction/Repair Cost:****\$5,516,874.00**

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
4470	16	VE	23
Feet	Feet NAVD 88		Feet NGVD

Primary Type:**Revetment****Primary Material:****Stone****Primary Height:****Over 15 Feet****Secondary Type:****Secondary Material:****Secondary Height:****Structure Summary :**

This structure is the stone revetment which lies along the base of Third Cliff. One section of major slumping exists near the middle of the revetment. In general the structure looks to be in good condition, however isolated areas do show significant armor stone movement. These sections should be repaired before the damage can spread and be monitored after storms until repairs can be made.

Condition**C****Rating****Fair****Level of Action****Moderate****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.

Priority**IV****Rating****High Priority****Action****Consider for Next Project Construction Listing****Description**

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:**068-060-001-051-100-PHO1A.jpg****068-060-001-051-100-PHO1B.jpg****068-060-001-051-100-PHO1C.jpg****068-060-001-051-100-PHO1D.jpg****Structure Documents:****MA DPW****JAN 1961****Proposed Shore****068-060-001-051-100-DCR1A****MA DPW****APR 1954****Proposed Shore****068-060-001-051-100-DCR1B****FDAP****MAR 1997****SHORE****068-060-001-051-100-TWN1A****USACE****NOV 2000****THIRD CLIFF****068-060-001-051-100-COE1A**

Structure Assessment Form

Town: Scituate

Structure ID: 068-064-006-004-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Collier Rd.

Date:

8/1/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR - Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1958

Estimated Reconstruction/Repair Cost:

\$379,579.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
316	16	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a stone dike at the terminal (southern) end of the revetment around Third Cliff. The structure shows armor stone slumping and failure at two locations and also at the head.

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

III

Rating

Moderate Priority

Action

Consider for Active Project Improvement Listing

Description

Inshore Structures with potential for Infrastructure Damage and/or Limited Residential Dwellings (<1 dwelling impacted / 100 feet of shoreline)

Structure Images:

068-064-006-004-100-PHO1A.jpg

Structure Documents:

MA DPW	AUG 1933	Proposed Rip Rap	068-064-006-004-100-DCR1A
MA DPW	JULY 1958	Proposed Shore	068-064-006-004-100-DCR1B
MA DPW	FEB 1961	Cross Sections	068-064-006-004-100-DCR1C
SDPW	FEB 6 1997	FORSHORE	068-064-006-004-100-TWN1A
SDPW	OCT 1992	AS-BUILT	068-064-006-004-100-TWN1B
MA DPW	NOV 12 191	EXTENSION OF	068-064-006-004-100-COE1A
MA DPW	NOV 1915	EXTENSION OF RIP	068-064-006-004-100-COE1B

Structure Assessment Form

Town: Scituate

Structure ID: 068-068-004-006-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Beach Way

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

DCR – Contract Drawings

Owner Name:

Scituate

Earliest Structure Record:

1954

Estimated Reconstruction/Repair Cost:

\$869,669.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
724	18	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Revetment

Primary Material:

Stone

Primary Height:

5 to 10 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a stone revetment at the northeastern end of Humarock, immediately south of the military land. The stone is unraveled in many sections, with areas where the revetment is slumped and not functional. Certain sections of the cliff above the revetment have been armored and grouted.

Condition

D

Rating

Poor

Level of Action

Major

Description

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. 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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-068-004-006-100-PHO1A.jpg

068-068-004-006-100-PHO1B.jpg

Structure Documents:

MA DPW

FEB 1954

Proposed Shore

068-068-004-006-100-DCR1A

Structure Assessment FormTown: **Scituate**

Structure ID: 068-071-007-016-100

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Humarock Beach

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$859,431.00

Length:	Top Elevation:	FIRM Map Zone:	FIRM Map Elevation:
2022	15	VE	20
Feet	Feet NAVD 88		Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:

**Structure Summary :**

This structure is a short concrete seawall that runs along Humarock beach from Newell Street south to Marshfield Avenue. Most sections of the wall have seen the cobble beach pushed back up to the crest of the wall. There are some surface cracks evident and displacement of the wall in sections. The fact that the wall is buried by the cobble beach in most sections makes inspection difficult.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-071-007-016-100-PHO1A.jpg

068-071-007-016-100-PHO1B.jpg

Structure Documents:

MA DPW

APR 1962

Proposed Shore

068-071-007-016-100-DCR1A

MA DPW

DEC 1956

Proposed Shore

068-071-007-016-100-DCR1B

SDPW

FEB 6 1997

FORESHORE

068-071-007-016-100-TWN1A

SDPW

JAN 1997

SHORE

068-071-007-016-100-TWN1B

Structure Assessment FormTown: **Scituate**Structure ID: **068-073-003-001-100**

Key: community-map-block-parcel-structure

Property Owner:

Local

Location:

Humarock Beach

Date:

8/3/2006

Presumed Structure Owner:

Local

Based On Comment:

Property Ownership

Owner Name:

Scituate

Earliest Structure Record:

0

Estimated Reconstruction/Repair Cost:

\$665,613.00

Length:

1566

Feet

Top Elevation:

15

Feet NAVD 88

FIRM Map Zone:

VE

FIRM Map Elevation:

20

Feet NGVD

Primary Type:

Bulkhead/ Seawall

Primary Material:

Concrete

Primary Height:

Under 5 Feet

Secondary Type:

Secondary Material:

Secondary Height:



Structure Summary :

This structure is a short concrete seawall that runs along Humarock beach to the south, starting from Marshfield Avenue. Most sections of the wall have seen the cobble beach pushed back up to the crest of the wall. Surface cracking and spalling are evident throughout.

Condition

C

Rating

Fair

Level of Action

Moderate

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.

Priority

IV

Rating

High Priority

Action

Consider for Next Project Construction Listing

Description

High Value Inshore Structures with Potential for Infrastructure Damage and/or Moderate Density Residential Dwellings (1-10 dwellings impacted / 100 feet of shoreline)

Structure Images:

068-073-003-001-100-PHO1A.jpg

068-073-003-001-100-PHO1B.jpg

Structure Documents:

SDPW

JAN 1997

SHORE

068-073-003-001-100-TWN1A

Section IV

Town of Scituate

Structure Photographs

TOWN: SCITUATE
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
068-005-003-040-100	068-005-003-040-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-003-040-100	068-005-003-040-100-PHO1B.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-003-078-100	068-005-003-078-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-003-086-100	068-005-003-086-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-003-086-100	068-005-003-086-100-PHO1B.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-003-092-100	068-005-003-092-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-014-100	068-005-004-014-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-016-100	068-005-004-016-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-018-100	068-005-004-018-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-019-100	068-005-004-019-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-019-100	068-005-004-019-100-PHO1B.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-005-004-033F-100	068-005-004-033F-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-008-004-014-100	068-008-004-014-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-008-005-001-100	068-008-005-001-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-008-007-003-100	068-008-007-003-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-008-007-003-100	068-008-007-003-100-PHO1B.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-008-007-006-100	068-008-007-006-100-PHO1B.jpg		Bourne Consulting Engineering	SCITUATE	August 2006	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-002-100	068-015-001-002-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2007	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-006-100	068-015-001-006-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2008	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-010-100	068-015-001-010-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2009	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-017-100	068-015-001-017-100-PHO1A.jpg		Bourne Consulting Engineering	SCITUATE	August 2010	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey

TOWN: SCITUATE
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: AUGUST 2006

068-015-001-019-100	068-015-001-019-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2011	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-026-100	068-015-001-026-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2012	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-034-100	068-015-001-034-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2013	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-038-100	068-015-001-038-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2014	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-038-100	068-015-001-038-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2015	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-038-100	068-015-001-038-100-PHO1C.jpg	Bourne Consulting Engineering	SCITUATE	August 2016	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-044-100	068-015-001-044-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2017	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-015-001-044-200	068-015-001-044-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2018	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-022-008-011F-100	068-022-008-011F-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2019	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-028-009-010-100	068-028-009-010-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2020	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-010-100	068-034-001-010-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2021	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-017-100	068-034-001-017-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2022	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-017-100	068-034-001-017-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2023	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-027-100	068-034-001-027-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2024	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-027-100	068-034-001-027-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2025	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-001-027-200	068-034-001-027-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2026	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-011-011-100	068-034-011-011-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2027	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-034-011-011-100	068-034-011-011-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2028	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-000-100	068-040-001-000-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2029	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-000-200	068-040-001-000-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2030	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-004-100	068-040-001-004-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2031	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-012-100	068-040-001-012-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2032	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-015-100	068-040-001-015-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2033	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey

TOWN: SCITUATE
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: AUGUST 2006

068-040-001-018-100	068-040-001-018-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2034	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-018-100	068-040-001-018-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2035	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-032-100	068-040-001-032-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2036	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-032-100	068-040-001-032-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2037	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-041-100	068-040-001-041-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2038	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-041-100	068-040-001-041-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2039	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-046-100	068-040-001-046-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2040	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-040-001-053-100	068-040-001-053-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2041	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-100	068-046-001-000-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2043	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-100	068-046-001-000-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2044	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-200	068-046-001-000-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2045	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-200	068-046-001-000-200-PHO2B.jpg	Bourne Consulting Engineering	SCITUATE	August 2046	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-200	068-046-001-000-200-PHO2C.jpg	Bourne Consulting Engineering	SCITUATE	August 2047	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-200	068-046-001-000-200-PHO2D.jpg	Bourne Consulting Engineering	SCITUATE	August 2048	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-300	068-046-001-000-300-PHO3A.jpg	Bourne Consulting Engineering	SCITUATE	August 2049	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-000-300	068-046-001-000-300-PHO3B.jpg	Bourne Consulting Engineering	SCITUATE	August 2050	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-014-100	068-046-001-014-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2051	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-014-100	068-046-001-014-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2052	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-001-044-100	068-046-001-044-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2053	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-005-015-100	068-046-005-015-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2054	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-005-015-100	068-046-005-015-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2055	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-046-006-004-100	068-046-006-004-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2056	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-001-000-100	068-050-001-000-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2057	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey

TOWN: SCITUATE
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: AUGUST 2006

068-050-001-000-200	068-050-001-000-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2058	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-001-000-200	068-050-001-000-200-PHO2B.jpg	Bourne Consulting Engineering	SCITUATE	August 2059	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-001-000-300	068-050-001-000-300-PHO3A.jpg	Bourne Consulting Engineering	SCITUATE	August 2060	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-001-001-100	068-050-001-001-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2061	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-001-041-100	068-050-001-041-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2062	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-007-026-100	068-050-007-026-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2063	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-050-007-026-200	068-050-007-026-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2064	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-001-001-100	068-051-001-001-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2065	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-001-008-100	068-051-001-008-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2066	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-001-008-100	068-051-001-008-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2067	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-002-004-100	068-051-002-004-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2068	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-002-004-100	068-051-002-004-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2069	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-002-005-100	068-051-002-005-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2070	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-002-005-200	068-051-002-005-200-PHO2A.jpg	Bourne Consulting Engineering	SCITUATE	August 2071	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-051-002-008-100	068-051-002-008-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2072	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-055-008-006-100	068-055-008-006-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2073	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-056-005-010-100	068-056-005-010-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2074	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-056-005-010-100	068-056-005-010-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2075	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-056-005-010-100	068-056-005-010-100-PHO1C.jpg	Bourne Consulting Engineering	SCITUATE	August 2076	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-056-005-014-100	068-056-005-014-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2077	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-056-005-014-100	068-056-005-014-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2078	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-060-001-051-100	068-060-001-051-100-PHO1A.jpg	Bourne Consulting Engineering	SCITUATE	August 2079	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-060-001-051-100	068-060-001-051-100-PHO1B.jpg	Bourne Consulting Engineering	SCITUATE	August 2080	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey

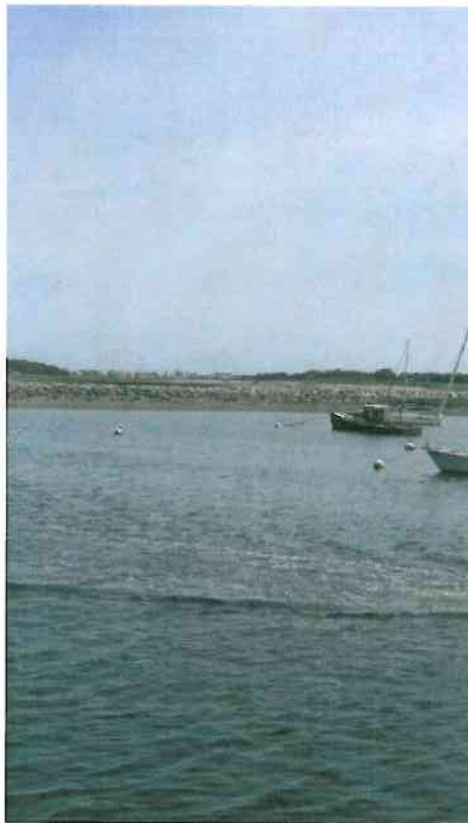
TOWN: SCITUATE
SOURCE: BCE - FIELD PHOTOGRAPHS
LOCATION: Bourne Consulting Engineering
DATE OF RESEARCH: AUGUST 2006

068-060-001-051-100	068-060-001-051-100-PH01C.jpg	Bourne Consulting Engineering	SCITUATE	August 2061	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-060-001-051-100	068-060-001-051-100-PH01D.jpg	Bourne Consulting Engineering	SCITUATE	August 2062	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-064-006-004-100	068-064-006-004-100-PH01A.jpg	Bourne Consulting Engineering	SCITUATE	August 2063	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-068-004-006-100	068-068-004-006-100-PH01A.jpg	Bourne Consulting Engineering	SCITUATE	August 2064	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-068-004-006-100	068-068-004-006-100-PH01B.jpg	Bourne Consulting Engineering	SCITUATE	August 2065	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-071-007-016-100	068-071-007-016-100-PH01A.jpg	Bourne Consulting Engineering	SCITUATE	August 2066	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-071-007-016-100	068-071-007-016-100-PH01B.jpg	Bourne Consulting Engineering	SCITUATE	August 2067	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-073-003-001-100	068-073-003-001-100-PH01A.jpg	Bourne Consulting Engineering	SCITUATE	August 2068	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey
068-073-003-001-100	068-073-003-001-100-PH01B.jpg	Bourne Consulting Engineering	SCITUATE	August 2069	DIGITAL IMAGE	1	Structure Location	Structure Condition Photo at Time of Survey

South Shore Coastal Infrastructure and Assessment



068-004-003-009-100-PHO1A.JPG



068-004-003-009-100-PHO1B.JPG



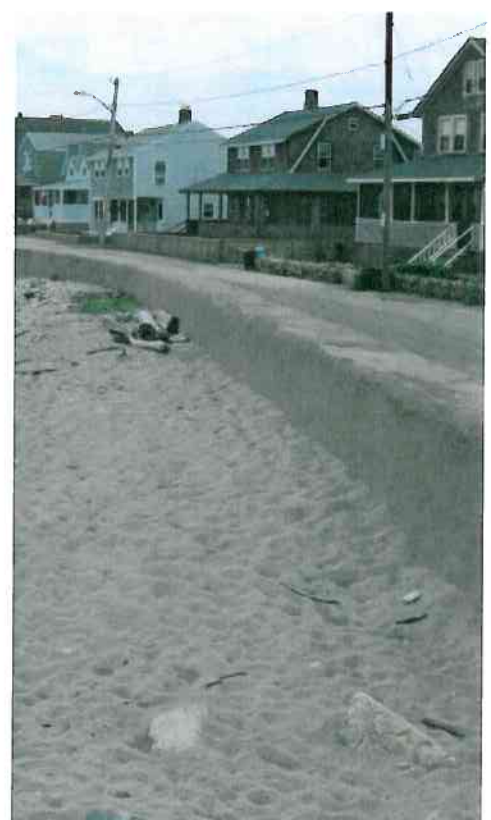
068-005-003-040-100-PHO1A.jpg



068-005-003-040-100-PHO1B.jpg



068-005-003-078-100-PHO1A.jpg



068-005-003-086-100-PHO1A.jpg

South Shore Coastal Infrastructure and Assessment



068-005-003-086-100-PHO1B.jpg



068-005-003-092-100-PHO1A.jpg



068-005-004-014-100-PHO1A.jpg



068-005-004-016-100-PHO1A.jpg



068-005-004-018-100-PHO1A.jpg



068-005-004-019-100-PHO1A.jpg

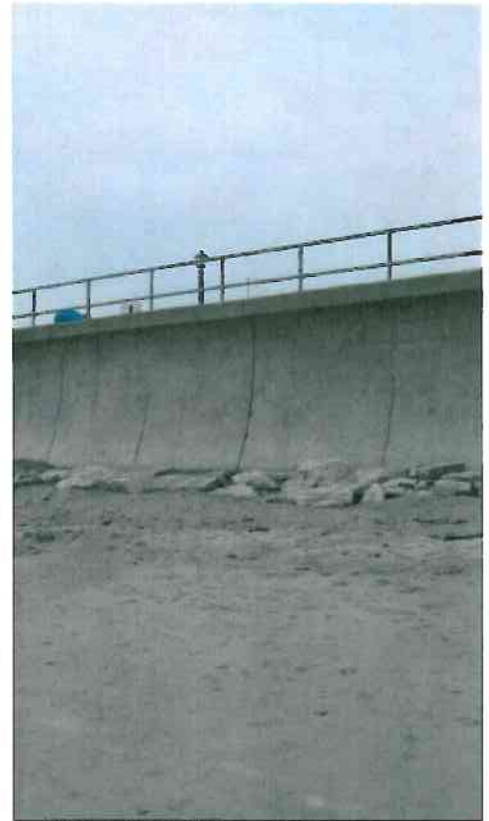
South Shore Coastal Infrastructure and Assessment



068-005-004-019-100-PHO1B.jpg



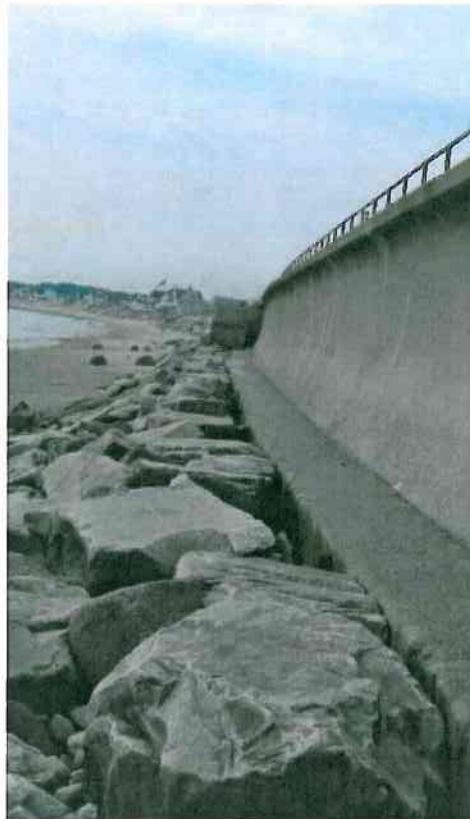
068-005-004-033F-100-PHO1A.jpg



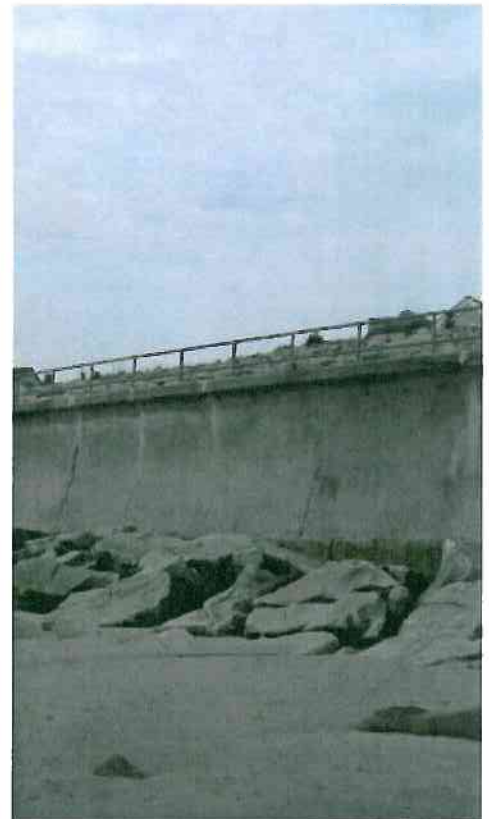
068-008-004-014-100-PHO1A.jpg



068-008-005-001-100-PHO1A.jpg



068-008-007-003-100-PHO1A.jpg

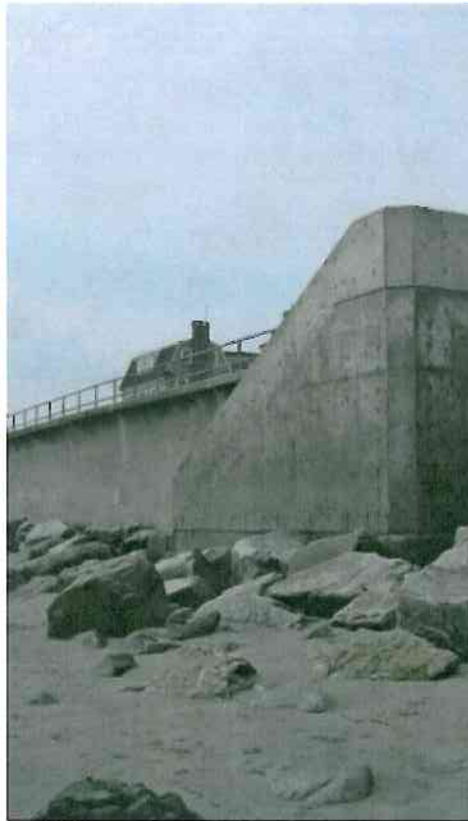


068-008-007-003-100-PHO1B.jpg

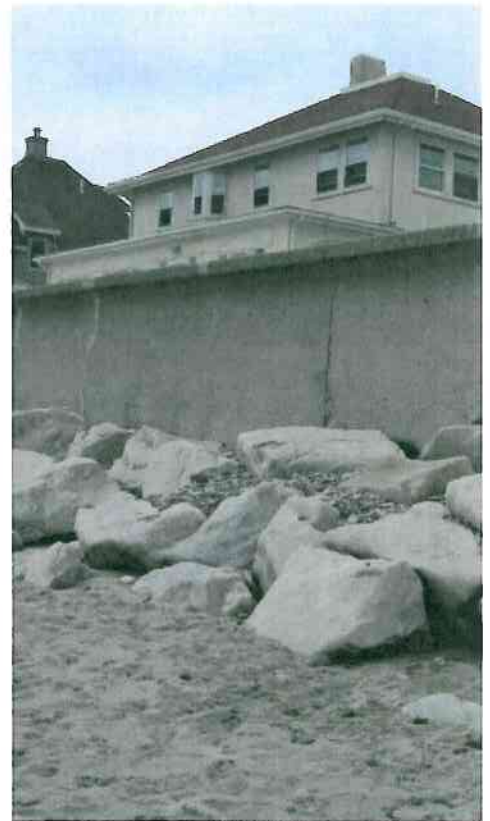
South Shore Coastal Infrastructure and Assessment



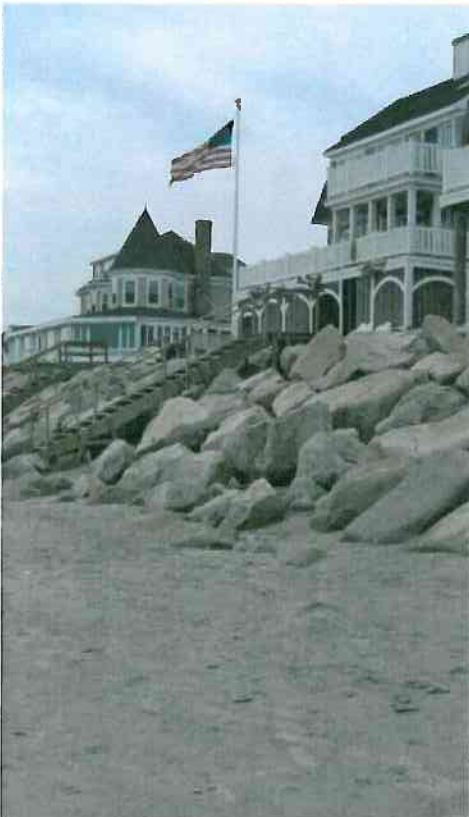
068-008-007-006-100-PHO1A.jpg



068-008-007-006-100-PHO1B.jpg



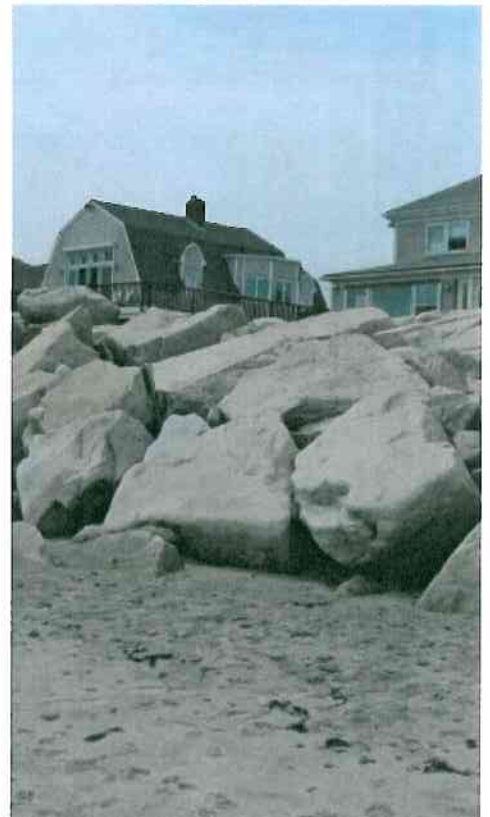
068-015-001-002-100-PHO1A.jpg



068-015-001-006-100-PHO1A.jpg

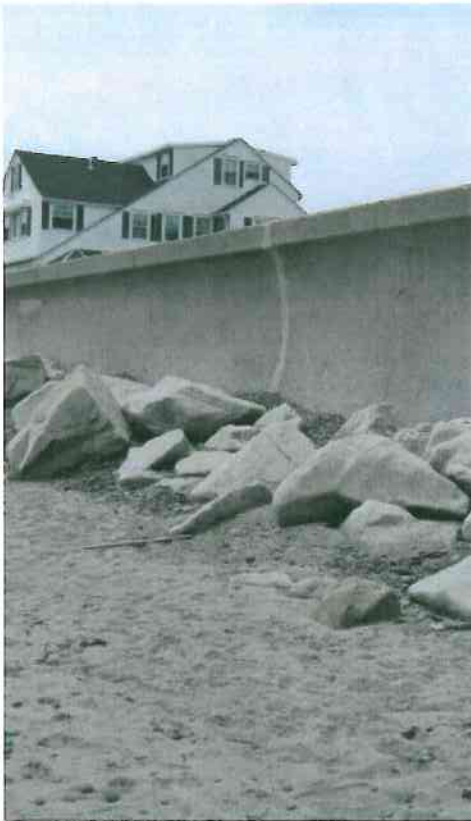


068-015-001-010-100-PHO1A.jpg



068-015-001-017-100-PHO1A.jpg

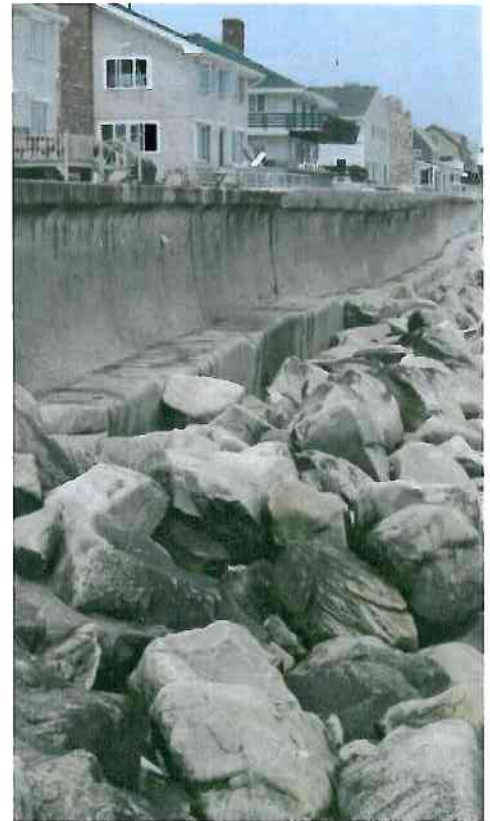
South Shore Coastal Infrastructure and Assessment



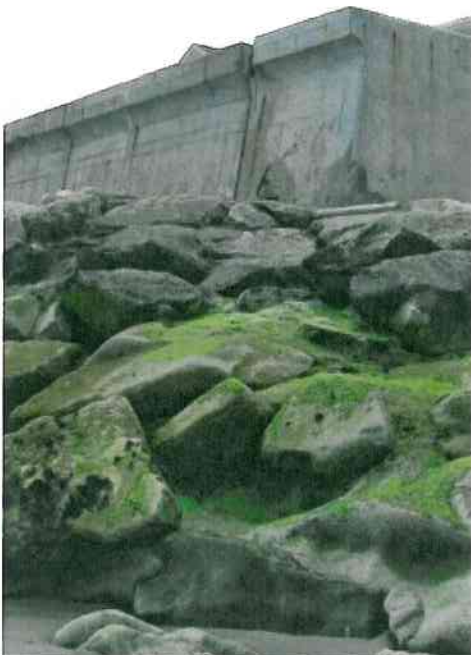
068-015-001-019-100-PHO1A.jpg



068-015-001-026-100-PHO1A.jpg



068-015-001-034-100-PHO1A.jpg



068-015-001-038-100-PHO1A.jpg



068-015-001-038-100-PHO1B.jpg



068-015-001-038-100-PHO1C.jpg

South Shore Coastal Infrastructure and Assessment



068-015-001-044-100-PHO1A.jpg



068-015-001-044-200-PHO2A.jpg



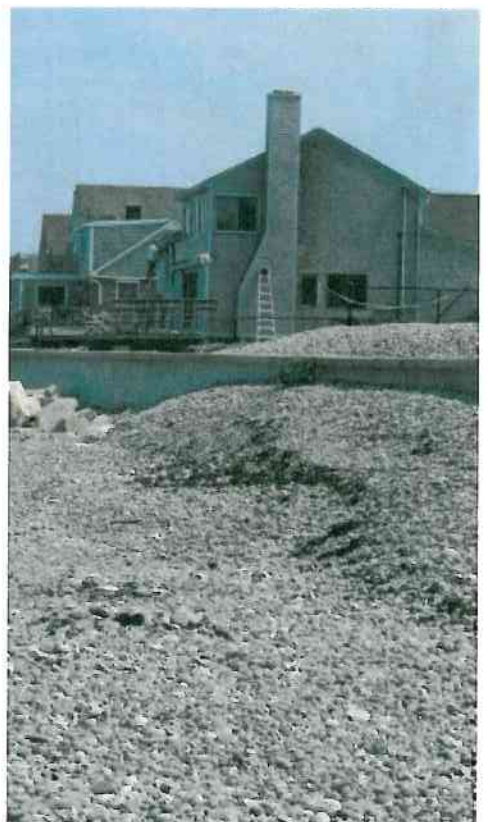
068-022-008-011F-100-PHO1A.jpg



068-028-009-010-100-PHO1A.jpg



068-034-001-010-100-PHO1A.jpg



068-034-001-017-100-PHO1A.jpg

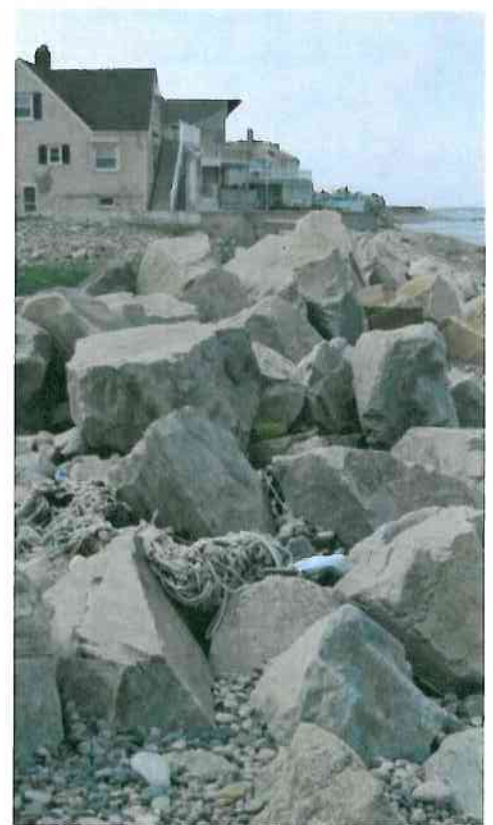
South Shore Coastal Infrastructure and Assessment



068-034-001-017-100-PHO1B.jpg



068-034-001-027-100-PHO1A.jpg



068-034-001-027-100-PHO1B.jpg



068-034-001-027-200-PHO2A.jpg



068-034-011-011-100-PHO1A.jpg



068-034-011-011-100-PHO1B.jpg

South Shore Coastal Infrastructure and Assessment



068-040-001-000-100-PHO1A.jpg



068-040-001-000-200-PHO2A.jpg



068-040-001-004-100-PHO1A.jpg



068-040-001-012-100-PHO1A.jpg



068-040-001-015-100-PHO1A.jpg



068-040-001-018-100-PHO1A.jpg

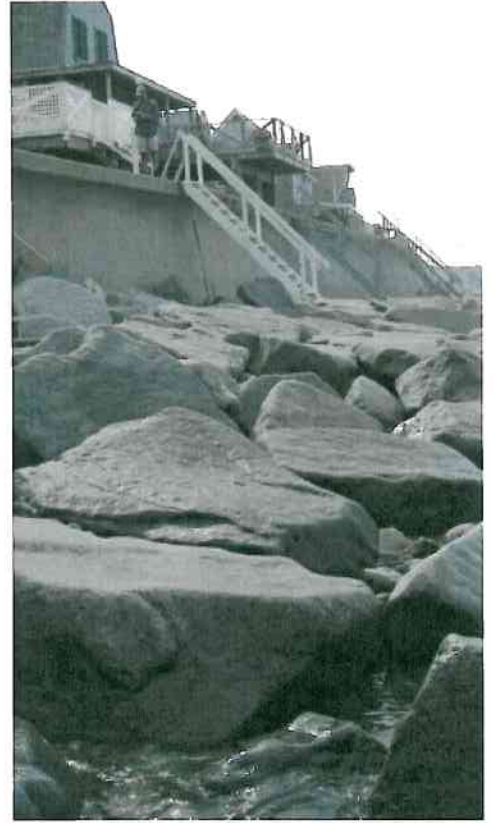
South Shore Coastal Infrastructure and Assessment



068-040-001-018-100-PHO1B.jpg



068-040-001-032-100-PHO1A.jpg



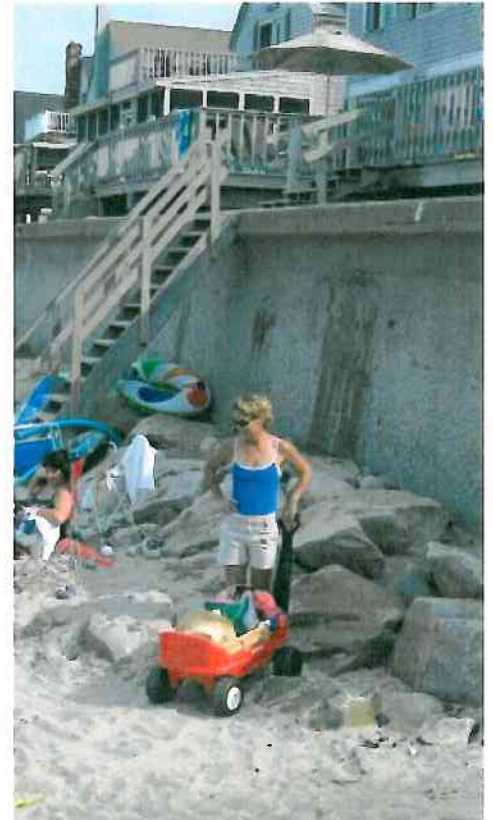
068-040-001-032-100-PHO1B.jpg



068-040-001-041-100-PHO1A.jpg



068-040-001-041-100-PHO1B.jpg



068-040-001-046-100-PHO1A.jpg

South Shore Coastal Infrastructure and Assessment



068-040-001-053-100-PHO1A.jpg



068-046-001-000-100-PHO1A.jpg



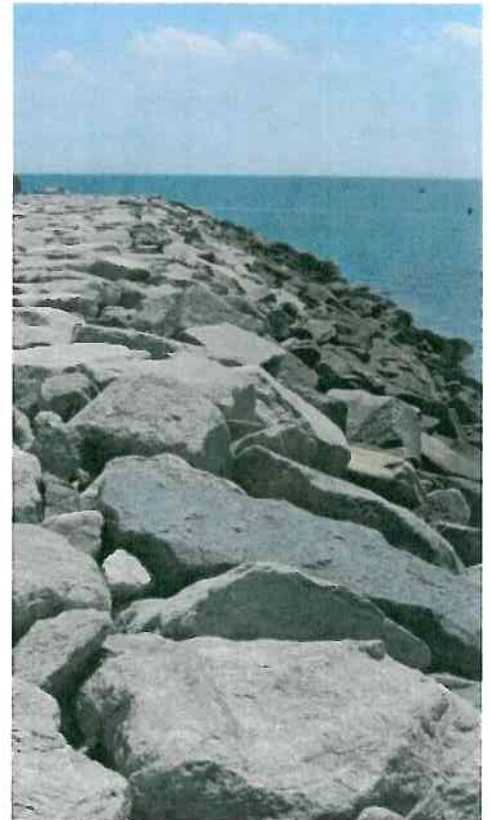
068-046-001-000-100-PHO1B.jpg



068-046-001-000-200-PHO2A.jpg



068-046-001-000-200-PHO2B.jpg



068-046-001-000-200-PHO2C.jpg

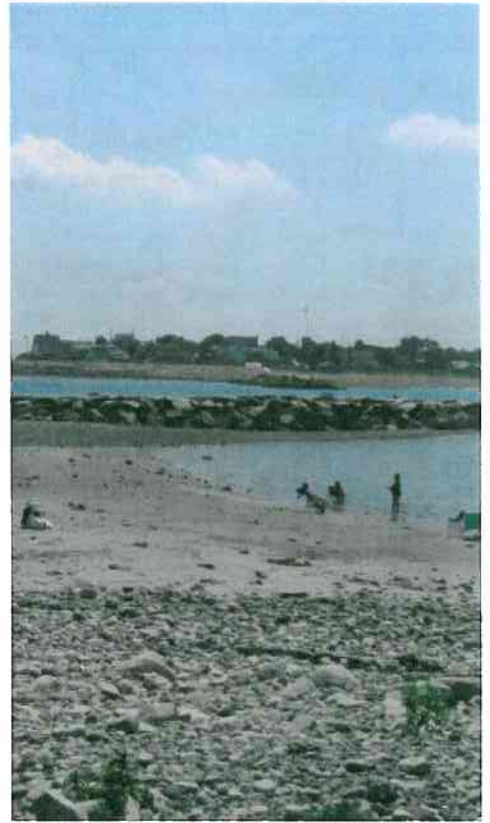
South Shore Coastal Infrastructure and Assessment



068-046-001-000-200-PHO2D.jpg



068-046-001-000-300-PHO3A.jpg



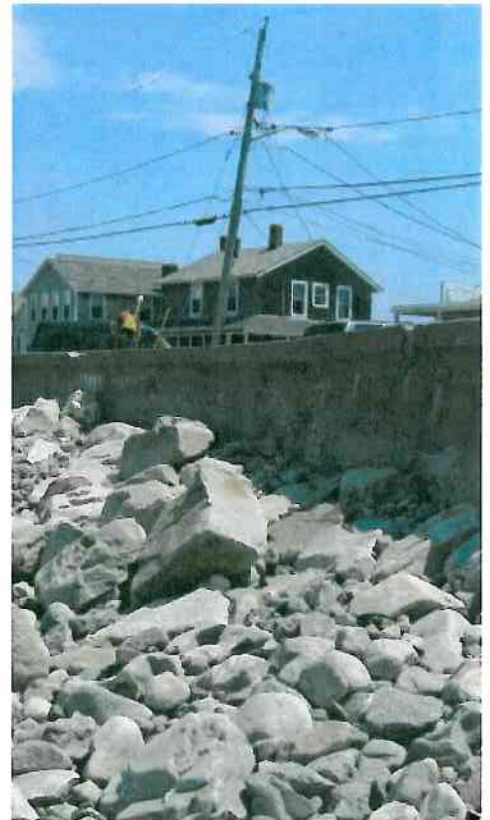
068-046-001-000-300-PHO3B.jpg



068-046-001-014-100-PHO1A.jpg



068-046-001-014-100-PHO1B.jpg



068-046-001-044-100-PHO1A.jpg

South Shore Coastal Infrastructure and Assessment



068-046-005-015-100-PHO1A.jpg



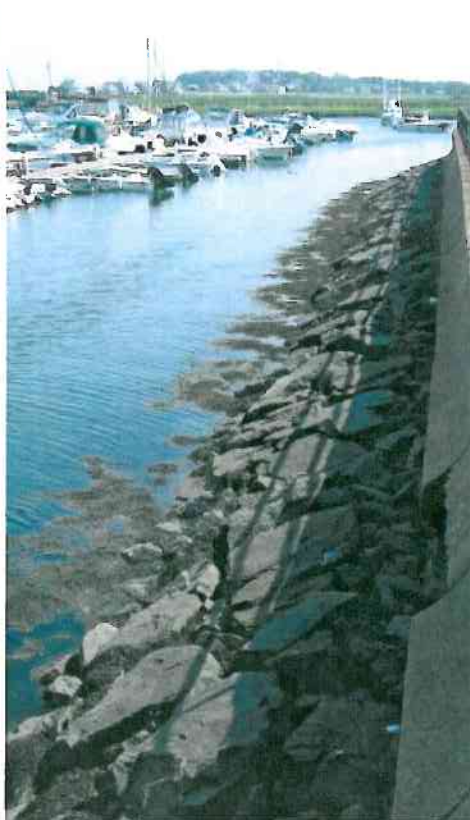
068-046-005-015-100-PHO1B.jpg



068-046-006-004-100-PHO1A.jpg



068-050-001-000-100-PHO1A.jpg



068-050-001-000-200-PHO2A.jpg



068-050-001-000-200-PHO2B.jpg

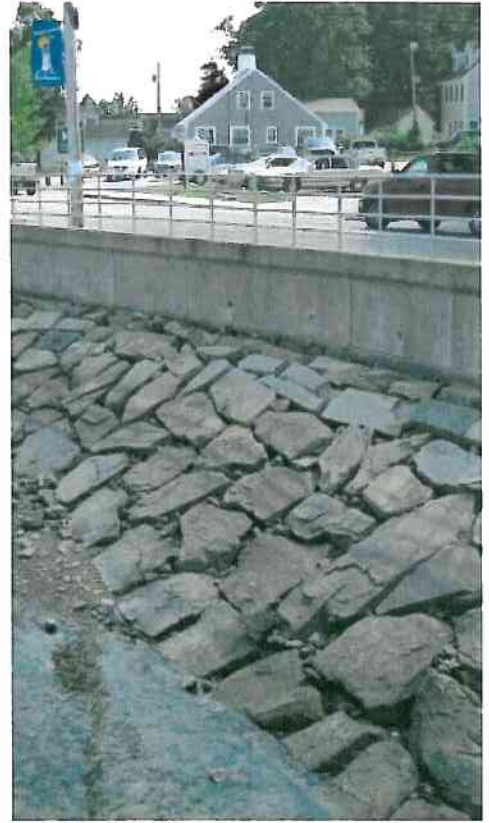
South Shore Coastal Infrastructure and Assessment



068-050-001-000-300-PHO3A.jpg



068-050-001-001-100-PHO1A.jpg



068-050-001-041-100-PHO1A.jpg



068-050-007-026-100-PHO1A.jpg

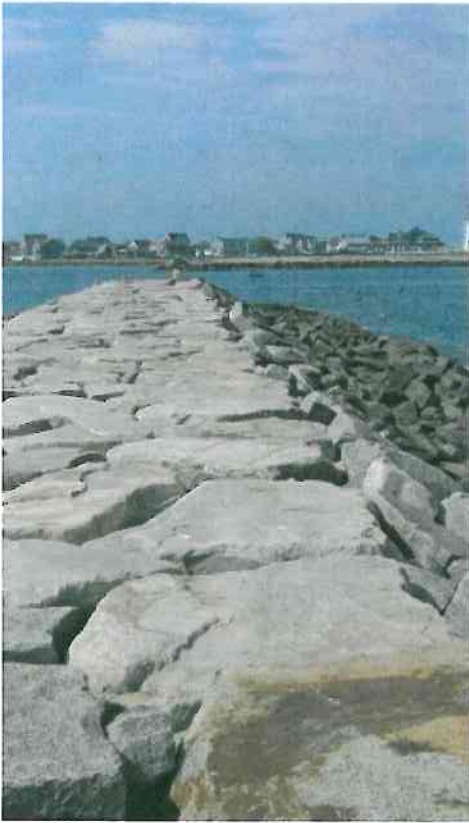


068-050-007-026-200-PHO2A.jpg



068-051-000-000-200-PHO2D.JPG

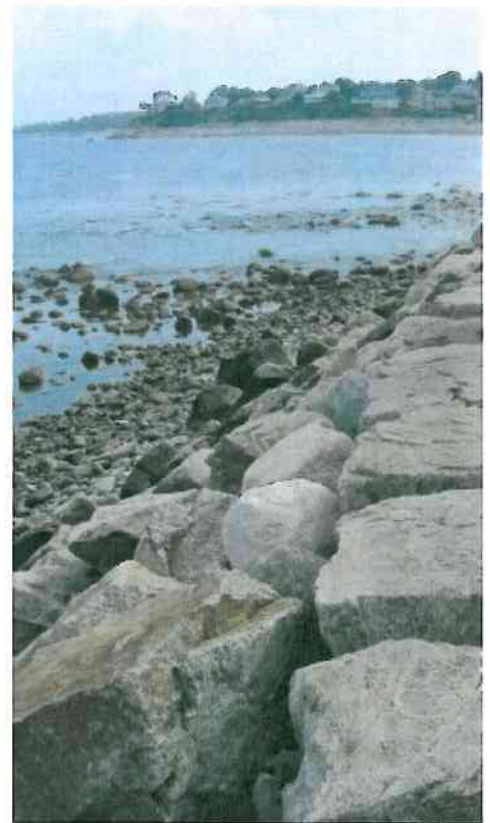
South Shore Coastal Infrastructure and Assessment



068-051-001-001-100-PHO1A.jpg



068-051-001-008-100-PHO1A.jpg



068-051-001-008-100-PHO1B.jpg



068-051-002-004-100-PHO1A.jpg



068-051-002-004-100-PHO1B.jpg



068-051-002-005-100-PHO1A.jpg

South Shore Coastal Infrastructure and Assessment



068-051-002-005-200-PHO2A.jpg



068-051-002-008-100-PHO1A.jpg



068-051-003-020-100-PHO1A.JPG



068-051-003-020-100-PHO1B.JPG



068-051-003-020-100-PHO1C.JPG



068-051-003-020-200-PHO2A.JPG

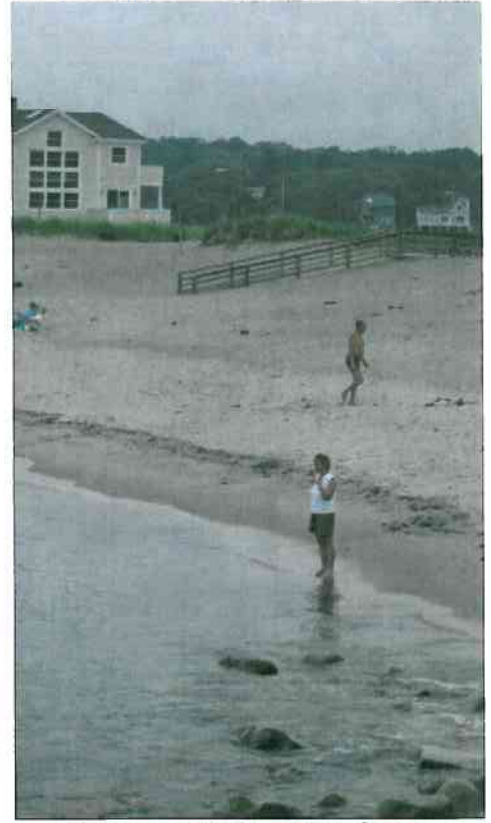
South Shore Coastal Infrastructure and Assessment



068-051-003-020-200-PHO2B.JPG



068-051-003-020-200-PHO2C.JPG



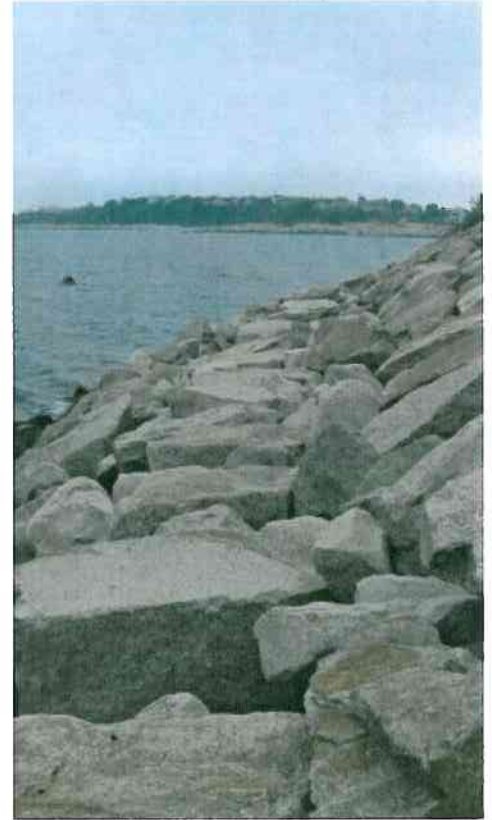
068-055-008-006-100-PHO1A.jpg



068-056-005-010-100-PHO1A.jpg



068-056-005-010-100-PHO1B.jpg



068-056-005-010-100-PHO1C.jpg

South Shore Coastal Infrastructure and Assessment



068-056-005-014-100-PHO1A.jpg



068-056-005-014-100-PHO1B.jpg



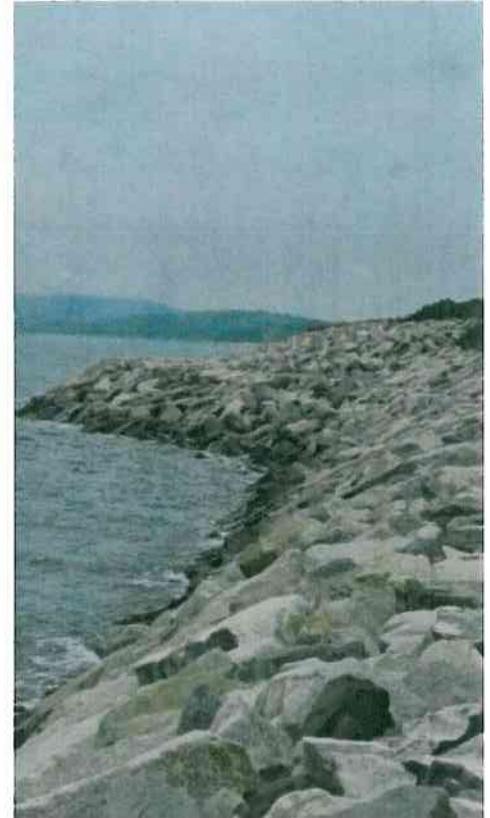
068-060-001-051-100-PHO1A.jpg



068-060-001-051-100-PHO1B.jpg

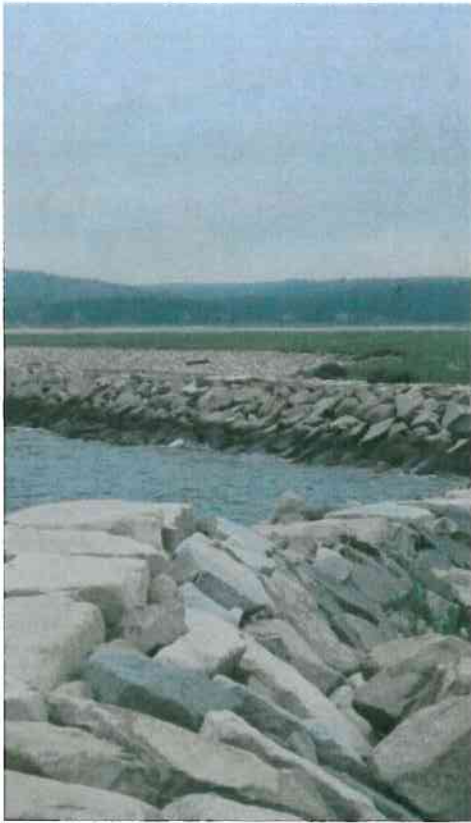


068-060-001-051-100-PHO1C.jpg

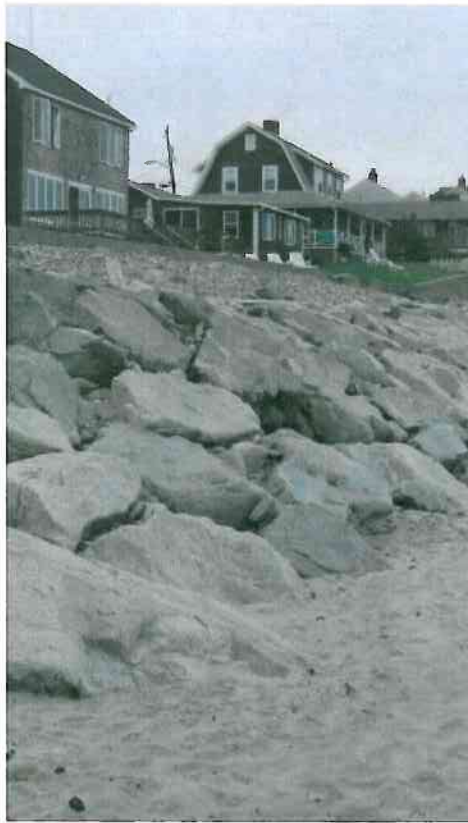


068-060-001-051-100-PHO1D.jpg

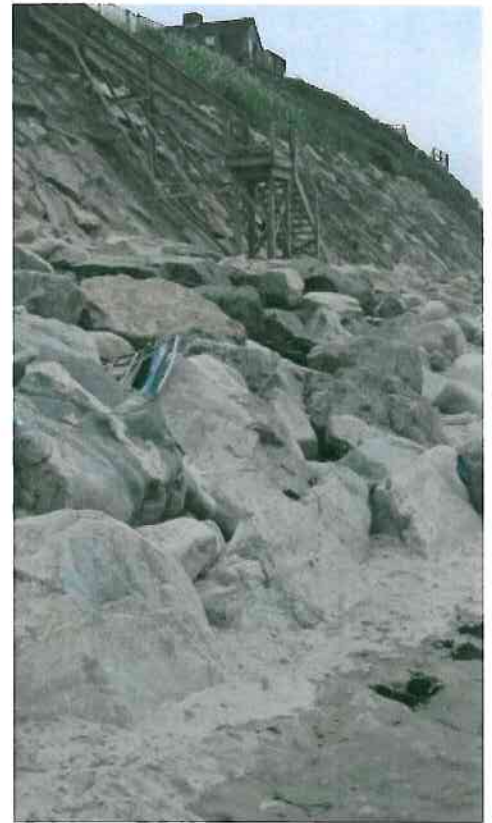
South Shore Coastal Infrastructure and Assessment



068-064-006-004-100-PHO1A.jpg



068-068-004-006-100-PHO1A.jpg



068-068-004-006-100-PHO1B.jpg



068-071-007-016-100-PHO1A.jpg



068-071-007-016-100-PHO1B.jpg



068-073-003-001-100-PHO1A.jpg

South Shore Coastal Infrastructure and Assessment



068-073-003-001-100-PHO1B.jpg

Section V

Town of Scituate

Structure Documents

TOWN DOCUMENT LIST

MA DCR - DOCUMENT LIST

MA DEP – Chp 91 DOCUMENT LIST

- Copies of License Documents

USACE – PERMIT DOCUMENT LIST

- Copies of Permit Documents

TOWN: SCITUATE
SOURCE: TOWN OF SCITUATE
LOCATION: SCITUATE, MA
DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
068-004-003-006-100	068-004-003-006-100-TWN1A	D-25-19	SDPW	SCITUATE	APRIL 1987	SHORE PROTECTION, BASSING BEACH	2	COHASSET HARBOR	BREAKWATER
068-005-003-040-100	068-005-003-040-100-TWN1A	D-25-2	SDPW	SCITUATE	APRIL 1987	SHORE PROTECTION, MINOT BEACH	4	MINOT BEACH	REVIEWMENT AND SEAWALL
068-005-003-078-100	068-005-003-078-100-TWN1A	D-25-2	SDPW	SCITUATE	APRIL 1987	SHORE PROTECTION, MINOT BEACH	4	MINOT BEACH	REVIEWMENT AND SEAWALL
068-005-003-086-100	068-005-003-086-100-TWN1A	D-25-2	SDPW	SCITUATE	APRIL 1987	SHORE PROTECTION, MINOT BEACH	4	MINOT BEACH	REVIEWMENT AND SEAWALL
068-005-003-092-100	068-005-003-092-100-TWN1A	97-FS-2	SDPW	SCITUATE	SEPT 1997	SEAWALL IMPROVEMENTS, NORTH WALL, GLADES RD	2	GLADES ROAD	SEAWALL REPAIRS
068-005-004-033F-100	068-005-004-033F-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-005-004-033F-100	068-005-004-033F-100-TWN1B	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-008-004-014-100	068-008-004-014-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-008-005-001-100	068-008-005-001-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-008-007-003-100	068-008-007-003-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-002-100	068-015-001-002-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-002-100	068-015-001-002-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-002-100	068-015-001-002-100-TWN1B	D-25-3, 5 & 6	SDPW	SCITUATE	OCT 1982	AS-BUILT DRAWINGS, SURFSIDE ROAD	3	SURFSIDE ROAD	SEAWALLS AND REVETMENTS
068-015-001-006-100	068-015-001-006-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-010-100	068-015-001-010-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-010-100	068-015-001-010-100-TWN1B	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-017-100	068-015-001-017-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-019-100	068-015-001-019-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-019-100	068-015-001-019-100-TWN1B	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-026-100	068-015-001-026-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-026-100	068-015-001-026-100-TWN1B	D-25-3, 5 & 6	SDPW	SCITUATE	OCT 1982	AS-BUILT DRAWINGS, SURFSIDE ROAD	3	SURFSIDE ROAD	SEAWALLS AND REVETMENTS
068-015-001-034-100	068-015-001-034-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-038-100	068-015-001-038-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-015-001-044-100	068-015-001-044-100-TWN1A	D-25-3, 5 & 6	SDPW	SCITUATE	JAN 1979	STONE RETENTION AND SEAWALL AS-BUILT'S, SURFSIDE ROAD TO GLADES ROAD	13	SURFSIDE ROAD TO GLADES ROAD	SURVEY AS-BUILT'S AND SECTIONS ONLY - PROVIDES NO STRUCTURAL DETAIL
068-034-001-010-100	068-034-001-010-100-TWN1A	D-25-10, 11 & 14	SDPW	SCITUATE	MAR 1979	TOWN OF SCITUATE SHORE PROTECTION AS BUILT'S		SHORE RD, CEDAR POINT, SAND HILLS, FIRST CLIFF AND HUMAROCK	SURVEY SECTIONS ONLY
068-034-001-017-100	068-034-001-017-100-TWN1A	D-25-10, 11 & 14	SDPW	SCITUATE	MAR 1979	TOWN OF SCITUATE SHORE PROTECTION AS BUILT'S		SHORE RD, CEDAR POINT, SAND HILLS, FIRST CLIFF AND HUMAROCK	SURVEY SECTIONS ONLY
068-034-011-011-100	068-034-011-011-100-TWN1A	D-25-10, 11 & 14	SDPW	SCITUATE	MAR 1979	TOWN OF SCITUATE SHORE PROTECTION AS BUILT'S		SHORE RD, CEDAR POINT, SAND HILLS, FIRST CLIFF AND HUMAROCK	SURVEY SECTIONS ONLY
068-051-001-008-100	068-051-001-008-100-TWN1A	D25-12, 15 & 16	FDAP	SCITUATE	MAR 1997	SHORE PROTECTION PROJECT, FEDERAL DISASTER ASSISTANCE PROJECT	33	FIRST, SECOND AND THIRD CLIFFS	REVIEWMENT REPAIRS
068-051-002-004-100	068-051-002-004-100-TWN1A	D25-12, 15 & 16	FDAP	SCITUATE	MAR 1997	SHORE PROTECTION PROJECT, FEDERAL DISASTER ASSISTANCE PROJECT	33	FIRST, SECOND AND THIRD CLIFFS	REVIEWMENT REPAIRS
068-060-001-051-100	068-060-001-051-100-TWN1A	D25-12, 15 & 16	FDAP	SCITUATE	MAR 1997	SHORE PROTECTION PROJECT, FEDERAL DISASTER ASSISTANCE PROJECT	33	FIRST, SECOND AND THIRD CLIFFS	REVIEWMENT REPAIRS
068-064-008-004-100	068-064-008-004-100-TWN1A	63-FS-1	SDPW	SCITUATE	FEB 6, 1987	FORSHORE PROTECTION, THIRD CLIFF	4	COLLIER ROAD TO GILSON RD	
068-064-008-004-100	068-064-008-004-100-TWN1B		SDPW	SCITUATE	OCT 1982	AS-BUILT DRAWINGS, SURFSIDE ROAD	3	SURFSIDE ROAD	SEAWALLS AND REVETMENTS
068-071-007-016-100	068-071-007-016-100-TWN1A	63-FA-2	SDPW	SCITUATE	FEB 6, 1987	FORSHORE PROTECTION PROJECT, HUMAROCK TO MINOT BEACH	22	FORTH CLIFF	SEAWALL & REVETMENT MAINTENANCE
068-071-007-016-100	068-071-007-016-100-TWN1B	D-25-1	SDPW	SCITUATE	JAN 1997	SHORE PROTECTION, HUMAROCK	2	HUMAROCK BEACH	SEAWALL
068-073-003-001-100	068-073-003-001-100-TWN1A	D-25-1	SDPW	SCITUATE	JAN 1997	SHORE PROTECTION, HUMAROCK	2	HUMAROCK BEACH	SEAWALL
068-040-001-053-100	068-040-001-053-100-TWN1A	89-41	SDPW	SCITUATE	1980	RECONSTRUCTION OF FORSHORE PROTECTION STRUCTURES	4	GILSON RD., BASIN LN., FIRST CLIFF & COLLIER RD.	SEAWALLS AND REVETMENTS
068-051-001-008-100	068-051-001-008-100-TWN1A	89-41	SDPW	SCITUATE	1980	RECONSTRUCTION OF FORSHORE PROTECTION STRUCTURES	4	GILSON RD., BASIN LN., FIRST CLIFF & COLLIER RD.	SEAWALLS AND REVETMENTS
068-051-002-004-100	068-051-002-004-100-TWN1A	89-41	SDPW	SCITUATE	1980	RECONSTRUCTION OF FORSHORE PROTECTION STRUCTURES	4	GILSON RD., BASIN LN., FIRST CLIFF & COLLIER RD.	SEAWALLS AND REVETMENTS
068-051-200-005-100	068-051-200-005-100-TWN1A	89-41	SDPW	SCITUATE	1980	RECONSTRUCTION OF FORSHORE PROTECTION STRUCTURES	4	GILSON RD., BASIN LN., FIRST CLIFF & COLLIER RD.	SEAWALLS AND REVETMENTS

TOWN: SCITUATE

SOURCE: MA-DCR - OFFICE OF WATERWAYS

LOCATION: MA-DCR - OFFICE OF WATERWAYS, HINGHAM, MA

DATE OF RESEARCH: AUGUST 2006

BCE Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
068-005-003-040-100	068-005-003-040-100-DCRLA	33	Commission on Waterways and Public Lands	Scituate	AUG 1917	PROPOSED TIMBER BULKHEAD, NORTH SCITUATE BEACH	1	GLADES ROAD	
068-005-003-040-100	068-005-003-040-100-DCRLA	370	MA DPW	Scituate	AUG 1933	Proposed Concrete Wall Repairs and Stone Rip Rap - The Glades	1	Glades Road	
068-005-003-040-100	068-005-003-040-100-DCRLB	827	MA DPW	Scituate	APRIL 1945	Proposed Concrete Wall Repairs and Rip Rap - The Glades	1	The Glades	
068-005-003-040-100	068-005-003-040-100-DCRLC	898	MA DPW	Scituate	MAY 1949	Proposed Concrete Wall Repairs and Rip Rap - The Glades	1	The Glades	
068-005-003-078-100	068-005-003-078-100-DCRLA	33	Commission on Waterways and Public Lands	Scituate	AUG 1917	PROPOSED TIMBER BULKHEAD, NORTH SCITUATE BEACH	1	GLADES ROAD	
068-005-003-078-100	068-005-003-078-100-DCRLA	370	MA DPW	Scituate	AUG 1933	Proposed Concrete Wall Repairs and Stone Rip Rap - The Glades	1	Glades Road	
068-005-003-078-100	068-005-003-078-100-DCRLA	785	MA DPW	Scituate	OCT 1943	Proposed Concrete Wall Repairs - The Glades	1	The Glades	
068-005-003-078-100	068-005-003-078-100-DCRLB	1131	MA DPW	Scituate	DEC 1949	Proposed Stone Rip Rap - The Glades	1	The Glades	
068-005-003-086-100	068-005-003-086-100-DCRLA	33	Commission on Waterways and Public Lands	Scituate	AUG 1917	PROPOSED TIMBER BULKHEAD, NORTH SCITUATE BEACH	1	GLADES ROAD	
068-008-004-014-100	068-008-004-014-100-DCRLA	1857	MA DPW	Scituate	AUG 1959	Proposed Shore Protection, Concrete Seawall, Glades Road	1	Glades Road	
068-008-007-003-100	068-008-007-003-100-DCRLA	1200	MA DPW	Scituate	JAN 1952	Proposed Seawall Repair - Glades Road	1	Glades Road	
068-008-007-003-100	068-008-007-003-100-DCRLB	1387	MA DPW	Scituate	MAR 1954	Proposed Shore Protection, Seawall and Bank Reconstruction, Glades Road, Vicinity of Glades Road	1	Glades Road, Vicinity of Glades Road	
068-008-007-003-100	068-008-007-003-100-DCRLA	1857	MA DPW	Scituate	AUG 1959	Proposed Shore Protection, Concrete Seawall, Glades Road	1	Glades Road	
068-015-001-026-100	068-015-001-026-100-DCRLA	2428	MA DPW	Scituate	JULY 1984	Proposed Shore Protection, Seawall Reconstruction, Surf Side Road	2	Surf Side Road	
068-015-001-034-100	068-015-001-034-100-DCRLA	1074	MA DPW	Scituate	NOV 1948	Proposed Shore Protection, Surf Side	2	Surf Side	
068-015-001-034-100	068-015-001-034-100-DCRLA	1084	MA DPW	Scituate	JAN 1949	Proposed Wall Repair, Surf Side	1	Surf Side	
068-015-001-034-100	068-015-001-034-100-DCRLA	1850	MA DPW	Scituate	AUG 1959	Proposed Shore Protection, Concrete Seawall Surf Side Road	1	Surf Side Road	
068-015-001-034-100	068-015-001-034-100-DCRLB	2288	MA DPW	Scituate	FEB 1981	Proposed Shore Protection, Seawall Reconstruction and Stone Pavement, Surf Side Road	1	Surf Side Road	
068-015-001-038-100	068-015-001-038-100-DCRLA	1074	MA DPW	Scituate	NOV 1948	Proposed Shore Protection, Surf Side	2	Surf Side	
068-015-001-038-100	068-015-001-038-100-DCRLA	1084	MA DPW	Scituate	JAN 1949	Proposed Wall Repair, Surf Side	1	Surf Side	
068-015-001-038-100	068-015-001-038-100-DCRLB	1850	MA DPW	Scituate	AUG 1959	Proposed Shore Protection, Concrete Seawall Surf Side Road	1	Surf Side Road	
068-015-001-038-100	068-015-001-038-100-DCRLD	2288	MA DPW	Scituate	FEB 1981	Proposed Shore Protection, Seawall Reconstruction and Stone Pavement, Surf Side Road	1	Surf Side Road	
068-015-001-044-100	068-015-001-044-100-DCRLA	1074	MA DPW	Scituate	NOV 1948	Proposed Shore Protection, Seawall Reconstruction and Stone Pavement, Surf Side Road	1	Surf Side Road	
068-015-001-044-100	068-015-001-044-100-DCRLB	1084	MA DPW	Scituate	JAN 1949	Proposed Shore Protection, Surf Side	2	Surf Side	
068-015-001-044-100	068-015-001-044-100-DCRLC	1850	MA DPW	Scituate	AUG 1959	Proposed Wall Repair, Surf Side	1	Surf Side	
068-015-001-044-100	068-015-001-044-100-DCRLD	2288	MA DPW	Scituate	FEB 1981	Proposed Shore Protection, Concrete Seawall Surf Side Road	1	Surf Side Road	
068-015-001-044-200	068-015-001-044-200-DCR2A	2850	MA DEQE	Scituate	NOV 1988	Proposed Shore Protection, Seawall Reconstruction and Stone Pavement, Surf Side Road	1	Surf Side Road	
068-034-001-010-100	068-034-001-010-100-DCRLA	378	MA DPW	Scituate	AUG 1933	Proposed Shore Protection, Concrete Seawall, Southerly of Surf Side Road	1	Southerly of Surf Side Road	
068-034-001-010-100	068-034-001-010-100-DCRLB	378	MA DPW	Scituate	AUG 1933	Proposed Shore Protection, Sand Hills to Shore Acres	2	Kenneth Road To Fourth Ave.	
068-034-001-017-100	068-034-001-017-100-DCRLA	378	MA DPW	Scituate	AUG 1933	Proposed Shore Protection, Shore Acres	1	Shore Acres	
068-034-001-017-100	068-034-001-017-100-DCRLB	2818	MA DEQE	Scituate	NOV 1987	Proposed Shore Protection, Sand Hills to Shore Acres	2	Sand Hills to Shore Acres	
068-034-001-017-100	068-034-001-017-100-DCRLC	2818	MA DEQE	Scituate	NOV 1987	Proposed Shore Protection, Repairs to Concrete Seawalls, Vicinity of Ocean Side Drive and Hatherly Beach	2	Vicinity of Ocean Side Drive and Hatherly Beach	
068-034-001-017-100	068-034-001-017-100-DCRLC	2878	MA DEQE	Scituate	Dec 1988	Proposed Flood Control, Ocean Side Drive, Vicinity of Eighth	1	Ocean Side Drive, Vicinity of Eighth	
068-034-001-027-100	068-034-001-027-100-DCRLA	378	MA DPW	Scituate	AUG 1933	Proposed Shore Protection, Sand Hills to Shore Acres	2	Sand Hills to Shore Acres	
068-040-001-018-100	068-040-001-018-100-DCRLA	1515	MA DPW	Scituate	OCT 1955	Proposed Shore Protection, Concrete Seawall - Sand Hills	1	Sand Hills	
068-040-001-032-100	068-040-001-032-100-DCRLA	1182	MA DPW	Scituate	JAN 1951	Shore Protection Work - Sand Hills	1	Sand Hills	
068-040-001-032-100	068-040-001-032-100-DCRLB	1348	MA DPW	Scituate	NOV 1953	Seawall and Rip Rap Repairs - Sand Hills	1	Sand Hills	
068-040-001-032-100	068-040-001-032-100-DCRLC	1515	MA DPW	Scituate	OCT 1955	Proposed Shore Protection, Concrete Seawall - Sand Hills	1	Sand Hills	
068-040-001-032-100	068-040-001-032-100-DCRLD	1890	MA DPW	Scituate	AUG 1959	Proposed Shore Protection, Concrete Seawall, Sand Hill at Turner Road	1	Sand Hill at Turner Road	
068-040-001-032-100	068-040-001-032-100-DCRLB	2714	MA DEQE	Scituate	JAN 1971	Proposed Shore Protection, Concrete Masonry Seawall, Sand Hills, Vicinity of Turner Road	1	Sand Hills, Vicinity of Turner Road	
068-040-001-041-100	068-040-001-041-100-DCRLA	1182	MA DPW	Scituate	JAN 1951	Shore Protection Work - Sand Hills	1	Sand Hills	
068-045-012-009-100	068-045-012-009-100-DCRLA	1745	MA DPW	Scituate	APR 1957	Proposed Seawall Repair - Town Pier, Scituate Harbor	1	Scituate Harbor	
068-045-001-000-100	068-045-001-000-100-DCRLA	2114	MA DPW	Scituate	JAN 1980	Proposed Shore Protection, Cedar Point	1	Cedar Point	
068-046-005-015-100	068-046-005-015-100-DCRLA	1384	MA DPW	Scituate	APRIL 1954	Proposed Shore Protection, Stone Mound at Scituate Harbor and Placing Rip Rap at Second and Third Cliffs	2	Second and Third Cliffs	

TOWN: SCITUATE

SOURCE: MA-DCR - OFFICE OF WATERWAYS

LOCATION: MA-DCR - OFFICE OF WATERWAYS, HINGHAM, MA

DATE OF RESEARCH: AUGUST 2006

068-046-005-015-100	068-046-005-015-100-DCR1B	659	MA DPW	Scituate	MAY 1940	Proposed Shore Protection, Cedar Point and First Cliff	1	Cedar Point and First Cliff	Stone Jetty off Light House Road
068-046-005-015-100	068-046-005-015-100-DCR1C	905	MA DPW	Scituate	MAY 1948	Proposed Shore Protection, Cedar Point	1	Cedar Point	
068-046-005-015-100	068-046-005-015-100-DCR1D	1384	MA DPW	Scituate	Apr 1954	Proposed Shore Protection, Stone Mound at Scituate Harbor and Placing Rip Rap at Second and Third Cliffs	2	Second and Third Cliffs	
068-050-001-300-100	068-050-001-300-100-DCR1A	1428	MA DPW	Scituate	Sep 1954	Proposed Harbor Development, Concrete and Stone Seawall, Scituate Harbor	3	Scituate Harbor	
068-050-001-001-100	068-050-001-001-100-DCR1A	1728	MA DPW	Scituate	Feb 1957	Proposed Pier Repairs, Steel Sheet Piling - Town Pier	1	Town Pier	
068-050-001-041-100	068-050-001-041-100-DCR1A	1745	MA DPW	Scituate	APRIL 1957	Proposed Seawall Repair - Town Pier, Scituate Harbor	1	Scituate Harbor	
068-050-001-200-100	068-050-001-200-100-DCR1A	1428	MA DPW	Scituate	SEPT 1954	Proposed Harbor Development, Concrete and Stone Seawall, Scituate Harbor	3	Scituate Harbor	
068-051-001-008-100	068-051-001-008-100-DCR1A	1652	MA DPW	Scituate	Sep 1958	Proposed Shore Protection, Stone Mound, First Cliff	2	First Cliff	
068-051-001-008-100	068-051-001-008-100-DCR1A	1115	MA DPW	Scituate	OCT 1949	Proposed Shore Protection, First Cliff	1	First Cliff	
068-051-002-005-100	068-051-002-005-100-DCR1A	1518	MA DPW	Scituate	Jun 1955	Proposed Shore Protection, Stone Mound Construction - Third Cliff at Collier Road	1	Third Cliff at Collier Road	
068-051-002-005-100	068-051-002-005-100-DCR1B	1652	MA DPW	Scituate	Sep 1958	Proposed Shore Protection, Stone Mound, First Cliff	2	First Cliff	
068-051-002-005-100	068-051-002-005-100-DCR1A	62	Commission on Waterways and Public Lands	Scituate	DEC 1903	Plan of Proposed Concrete Seawall at Scituate between first and second Cliff	1	Scituate between first and second Cliff	
068-056-005-010-100	068-056-005-010-100-DCR1A	1605	MA DPW	Scituate	APRIL 1958	Proposed Extension of Shore Protection, Second Cliff	1	Second Cliff	
068-056-005-010-100	068-056-005-010-100-DCR1A	1122	MA DPW	Scituate	NOV 1948	Proposed Bank Stabilization, Second Cliff	1	Second Cliff	
068-056-005-010-100	068-056-005-010-100-DCR1B	1170	MA DPW	Scituate	MAY 1951	Proposed Shore Protection, Second Cliff	1	Second Cliff	
068-060-001-051-100	068-060-001-051-100-DCR1A	2229	MA DPW	Scituate	JAN 1981	Proposed Shore Protection, Stone Mound Construction - Town Way Extension, North of Third Cliff	1	Town Way Extension, North of Third Cliff	
068-060-001-051-100	068-060-001-051-100-DCR1A	1384	MA DPW	Scituate	APRIL 1954	Proposed Shore Protection, Stone Mound at Scituate Harbor and Placing Rip Rap at Second and Third Cliffs	2	Second and Third Cliffs	
068-064-006-004-100	068-064-006-004-100-DCR1A	2288	MA DPW	Scituate	FEB 1981	Cross Sections Proposed Shore Protection, Stone Revetment - Northerly end of Third Cliff	1	Northerly end of Third Cliff	
068-064-006-004-100	068-064-006-004-100-DCR1A	377	MA DPW	Scituate	AUG 1933	Proposed Rip Rap Third Cliff	1	Third Cliff	
068-064-006-004-100	068-064-006-004-100-DCR1A	1954	MA DPW	Scituate	JULY 1958	Proposed Shore Protection, Stone Mound, Third Cliff	1	Third Cliff	
068-068-004-006-100	068-068-004-006-100-DCR1A	1386	MA DPW	Scituate	FEB 1954	Proposed Shore Protection, Stone Mound Construction	1	Fourth Cliff	
068-071-007-016-100	068-071-007-016-100-DCR1A	2351	MA DPW	Scituate	APR 1962	Proposed Shore Protection, Stone Revetment, Humarock Beach	1	Humarock Beach	
068-071-007-016-100	068-071-007-016-100-DCR1B	1702	MA DPW	Scituate	DEC 1956	Proposed Shore Protection, Stone Mound at Newell Street - Humarock	1	Humarock	

TOWN: SCITUATE
SOURCE: MA-DEP CHAPTER 91 LICENSE
LOCATION: MA-DEP MAIN OFFICE, BOSTON, MA
DATE OF RESEARCH: AUGUST 2006

Structure No	Document No	Contract/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
068-015-001-044-100	068-015-001-044-100-LIC1A	3789	DEP CH.91	SCITUATE	MAY 6, 1964	PLANS ACCOMPANYING THE PETITION OF TOWN OF SCITUATE FOR CONSTRUCTING AND MAINTAINING STONE REVENIENT IN MASSACHUSETTS BAY, SCITUATE, MASSACHUSETTS	2	91 SURFSIDE ROAD	
068-040-001-046-100	068-040-001-046-100-LIC1A	1442	DEP CH.91	SCITUATE	NOV. 22, 1986	PLAN ACCOMPANYING PETITION OF THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS TO RESTORE THE SAND HILLS SEAWALL AND PROTECT IT WITH THE PLACEMENT OF RIP - RAP IN MASSACHUSETTS BAY, TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.	4	TURNER ROAD AT SCITUATE AVE. EASTERLY TO REBECCA ROAD AT LIGHTHOUSE ROAD	
068-040-001-053-100	068-040-001-053-100-LIC1A	1442	DEP CH.91	SCITUATE	NOV. 22, 1988	PLAN ACCOMPANYING PETITION OF THE TOWN OF SCITUATE DEPARTMENT OF PUBLIC WORKS TO RESTORE THE SAND HILLS SEAWALL AND PROTECT IT WITH THE PLACEMENT OF RIP - RAP IN MASSACHUSETTS BAY, TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.	4	TURNER ROAD AT SCITUATE AVE. EASTERLY TO REBECCA ROAD AT LIGHTHOUSE ROAD	
068-050-001-000-100	068-050-001-000-100-LIC1A	628	DEP CH.91	SCITUATE	DEC. 31, 1925	PLAN TO ACCOMPANY PETITION OF TOWN OF SCITUATE TO BUILD A WOODEN BULKHEAD IN SCITUATE HARBOR, SCITUATE, MASS.	2	FRONT STREET BETWEEN OTIS AVENUE AND BEAL PLACE	
068-050-001-000-100	068-050-001-000-100-LIC1A	681	DEP CH.91	SCITUATE	JULY 8, 1928	PLAN TO ACCOMPANY PETITION OF THE TOWN OF SCITUATE TO BUILD A BULKHEAD, DREDGE A CHANNEL AND DEPOSIT FILLING AT SCITUATE MASS	1	FRONT STREET BETWEEN OTIS AVENUE AND BEAL PLACE	
068-050-001-000-100	068-050-001-000-100-LIC1A	688	DEP CH.91	SCITUATE	NOV. 6, 1980	PLAN ACCOMPANYING PETITION OF THE TOWN OF SCITUATE TO CONSTRUCT AND MAINTAIN AN EXPANSION OF THE TOWN MARINA AT SCITUATE HARBOR, TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.	5	FRONT STREET AT TOWN MARINA	
068-050-001-000-200	068-050-001-000-200-LIC1A	628	DEP CH.91	SCITUATE	DEC. 31, 1925	PLAN TO ACCOMPANY PETITION OF TOWN OF SCITUATE TO BUILD A WOODEN BULKHEAD IN SCITUATE HARBOR, SCITUATE, MASS.	2	FRONT STREET BETWEEN OTIS AVENUE AND BEAL PLACE	
068-050-001-000-200	068-050-001-000-200-LIC1A	681	DEP CH.91	SCITUATE	JULY 8, 1928	PLAN TO ACCOMPANY PETITION OF THE TOWN OF SCITUATE TO BUILD A BULKHEAD, DREDGE A CHANNEL AND DEPOSIT FILLING AT SCITUATE MASS	1	FRONT STREET BETWEEN OTIS AVENUE AND BEAL PLACE	
068-050-001-000-200	068-050-001-000-200-LIC1A	688	DEP CH.91	SCITUATE	NOV. 6, 1980	PLAN ACCOMPANYING PETITION OF THE TOWN OF SCITUATE TO CONSTRUCT AND MAINTAIN AN EXPANSION OF THE TOWN MARINA AT SCITUATE HARBOR, TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.	5	FRONT STREET AT TOWN MARINA	
068-050-001-001-100	068-050-001-001-100-LIC1A	1223	DEP CH.91	SCITUATE	APRIL 30, 1985	PLAN ACCOMPANYING PETITION OF TOWN OF SCITUATE TO CONSTRUCT & MAINTAIN STEEL SHEET PILE BULKHEAD, TIMBER PILE FENDER, DINGHY FLOATS AND DREDGE AT THE TOWN PIER, SCITUATE HARBOR, SCITUATE, MA.	3	FRONT STREET AT TOWN PIER	
068-050-001-001-100	068-050-001-001-100-LIC1A	1973	DEP CH.91	SCITUATE	MAY 26, 1988	PLAN ACCOMPANYING PETITION OF THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS TO CONSTRUCT AND MAINTAIN THE SATUIT BROOK CULVERT AND TO REPAIR AND MAINTAIN THE EXISTING RETAINING WALL IN THE SCITUATE HARBOR, TOWN OF SCITUATE COUNTY OF PLYMOUTH, MASS.	3	BEAVER DAM ROAD AT MORTON PLACE	
068-050-001-041-100	068-050-001-041-100-LIC1A	1223	DEP CH.91	SCITUATE	APRIL 30, 1985	PLAN ACCOMPANYING PETITION OF TOWN OF SCITUATE TO CONSTRUCT & MAINTAIN STEEL SHEET PILE BULKHEAD, TIMBER PILE FENDER, DINGHY FLOATS AND DREDGE AT THE TOWN PIER, SCITUATE HARBOR, SCITUATE, MA.	3	FRONT STREET AT TOWN PIER	

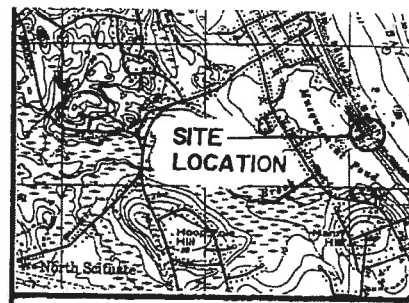


NOTES:

1. DATUM MLW=0.0, MHW=9.0
2. FEMA ZONE V2 AT SEAWALL AT EL 21.5(MLW).

APPROX. MHW

MLW 200'
(APPROX.)



LOCUS PLAN

REVETMENT
BUILT JUNE 1993

LIMITS OF STONE REVETMENT
TOWN OF SCITUATE

CONCRETE
SEAWALL

CONCRETE SEAWALL

CONCRETE DECK

#89
SURFSIDE
ROAD

#91 SURFSIDE ROAD

STONE FILL

DINGER, DAVID & JANICE
89 SURFSIDE ROAD
SCITUATE, MA 02055

PAVED
DRIVEWAY

ECKHOUSE, RICHARD H.
91 SURFSIDE ROAD
SCITUATE, MA 02055

MCGRATH, KATHRYN E. & MICHAEL J.
31 INDEPENDENCE LANE
HINGHAM, MA 02043

SITE PLAN

SURFSIDE ROAD

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

SHEET 1 OF 2

PLANS ACCOMPANYING THE PETITION
OF TOWN OF SCITUATE
FOR CONSTRUCTING AND MAINTAINING
STONE REVETMENT IN
MASSACHUSETTS BAY,
SCITUATE, MASSACHUSETTS 1/13/94

LICENSE PLAN NO. 3769

Approved by Department of Environmental Protection
of Massachusetts

Thomas J. Powell
Paul J. D. [illegible]
[illegible]
MAY 06 1994

COMMISSIONER

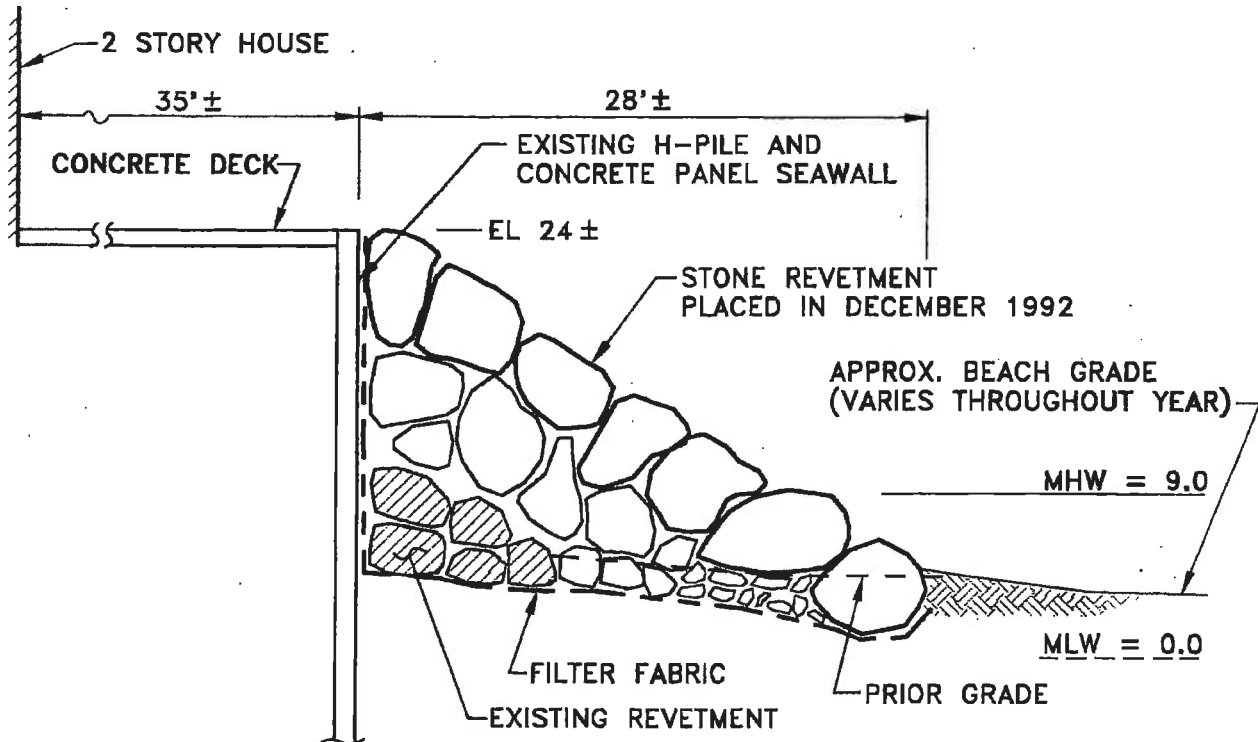
DIVISION DIRECTOR

SECTION CHIEF

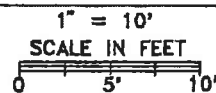
DATE



David B. Vine



SECTION A-A



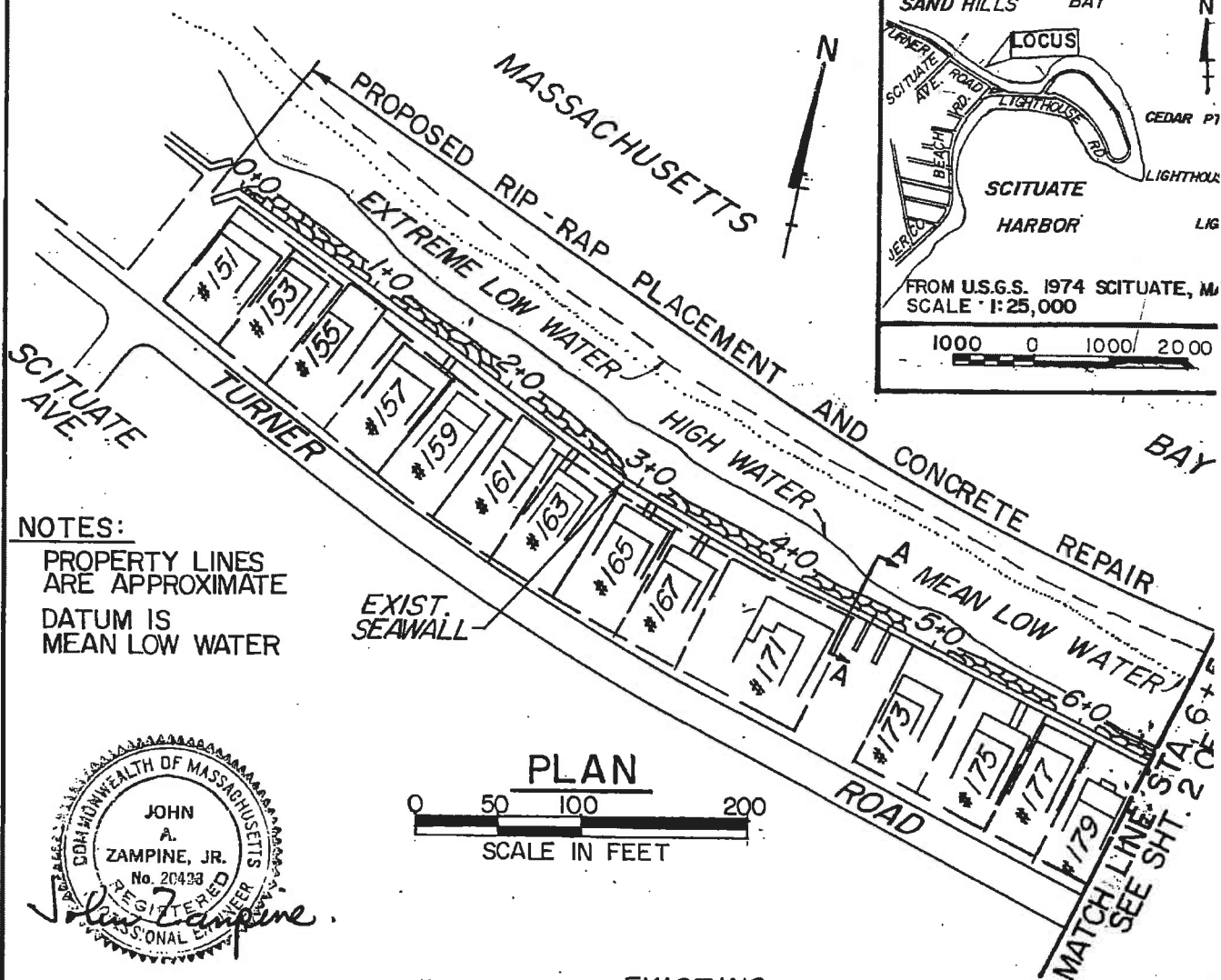
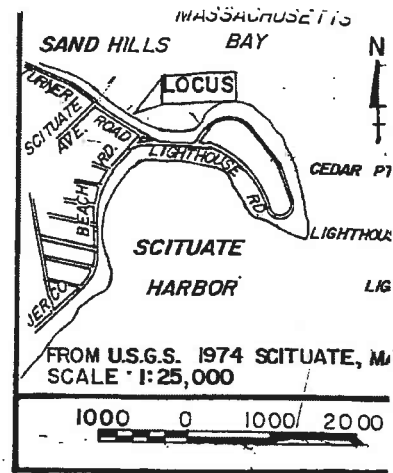
NOTE:
TOTAL VOLUME STONE FILLING = 850 C.Y.
VOLUME BELOW MHW LEVEL = 300 C.Y.

LICENSE PLAN NO. 3769

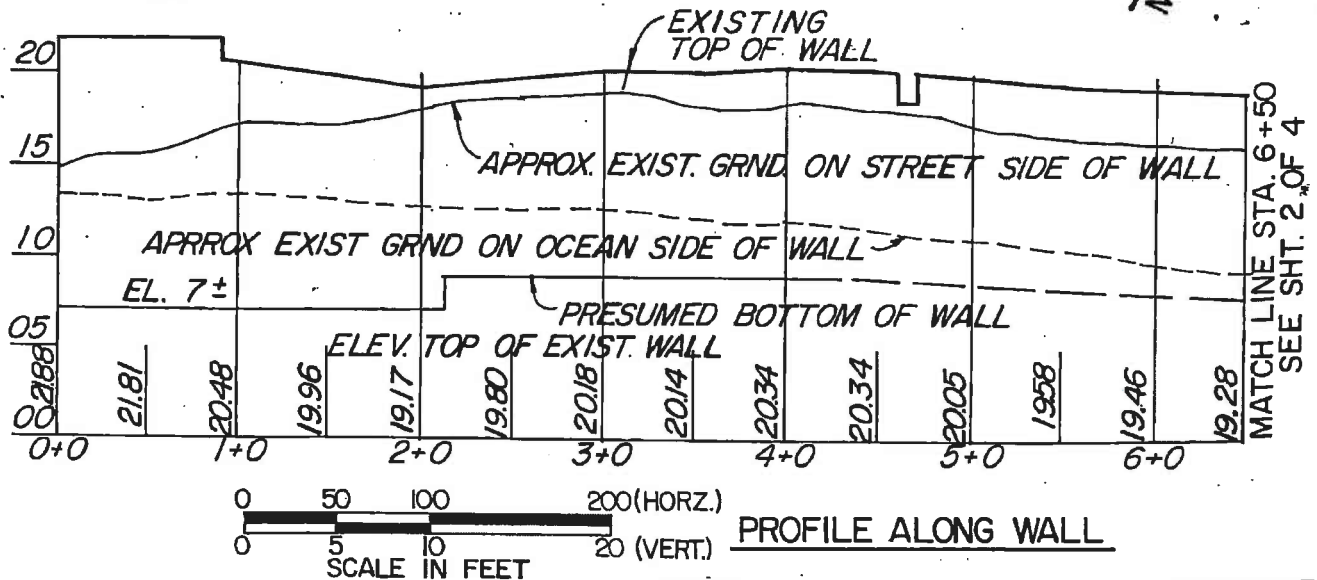
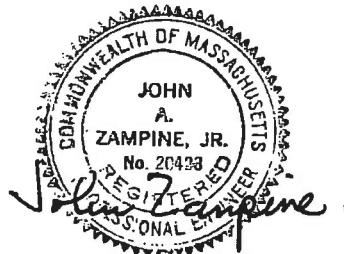
Approved by Department of Environmental Protection

Date: MAY 06 1994

44-3222



NOTES:
PROPERTY LINES
ARE APPROXIMATE
DATUM IS
MEAN LOW WATER

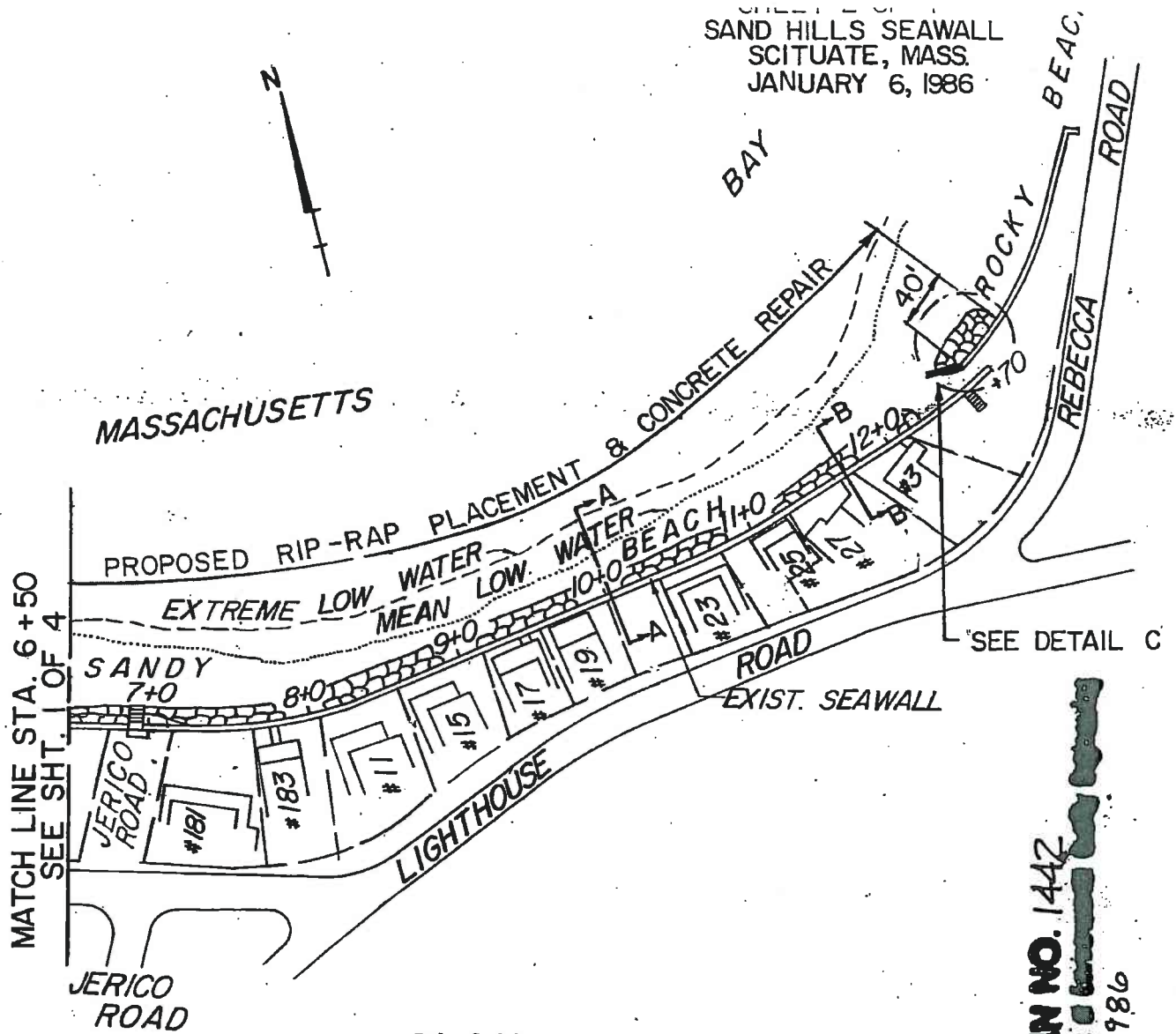


PLAN ACCOMPANYING PETITION OF
THE TOWN OF SCITUATE
DEPARTMENT OF PUBLIC WORKS
TO RESTORE THE SAND HILLS SEA-
WALL AND PROTECT IT WITH THE
PLACEMENT OF RIP-RAP.
IN MASSACHUSETTS BAY, TOWN OF
SCITUATE, COUNTY OF PLYMOUTH, MASS.

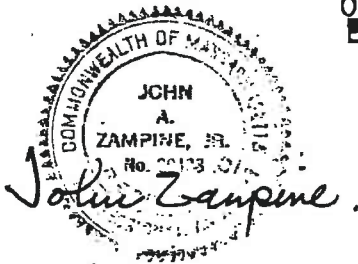
USENBER PLAN NO. 1442
Approved by Department of Environmental Quality Board
of Massachusetts
Gay R. Clavin
Charles Natale
COMMISSIONER
DIVISION DIRECTOR
SECTION CHIEF
DATE 10/24

068-040-001-046-100
068-040-001-053-100

SAND HILLS SEAWALL
SCITUATE, MASS.
JANUARY 6, 1986

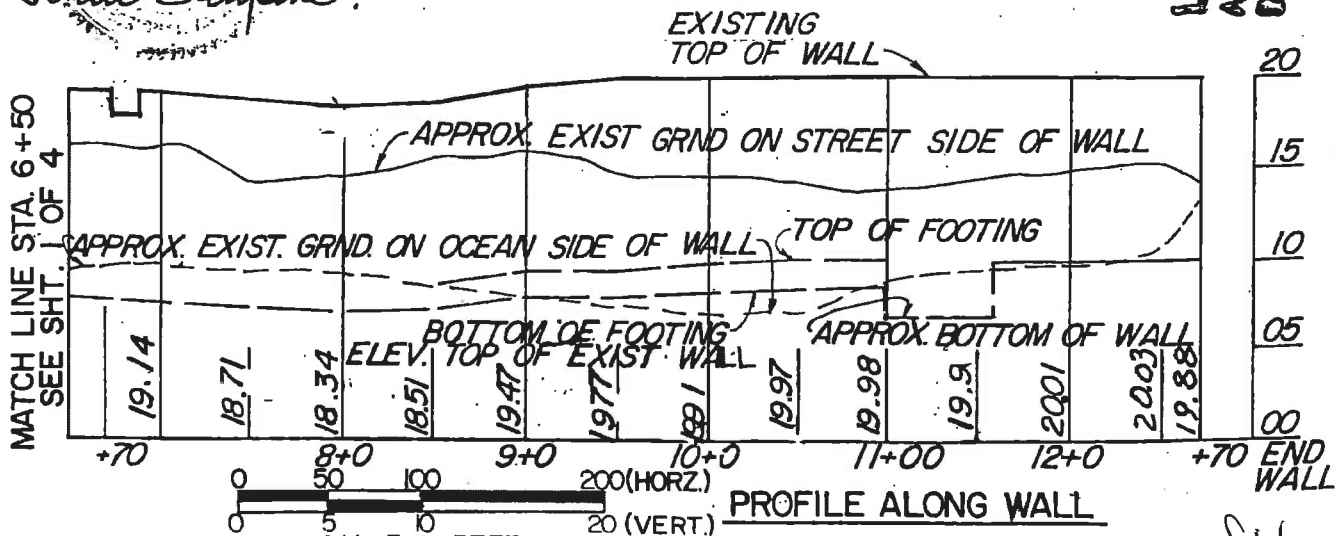


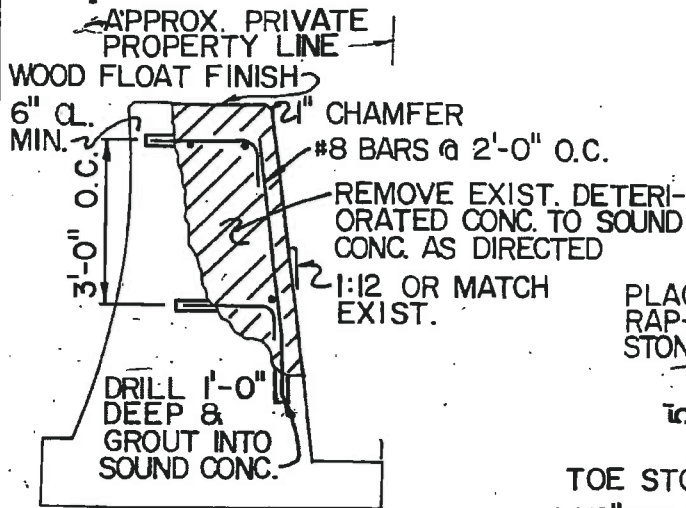
PLAN



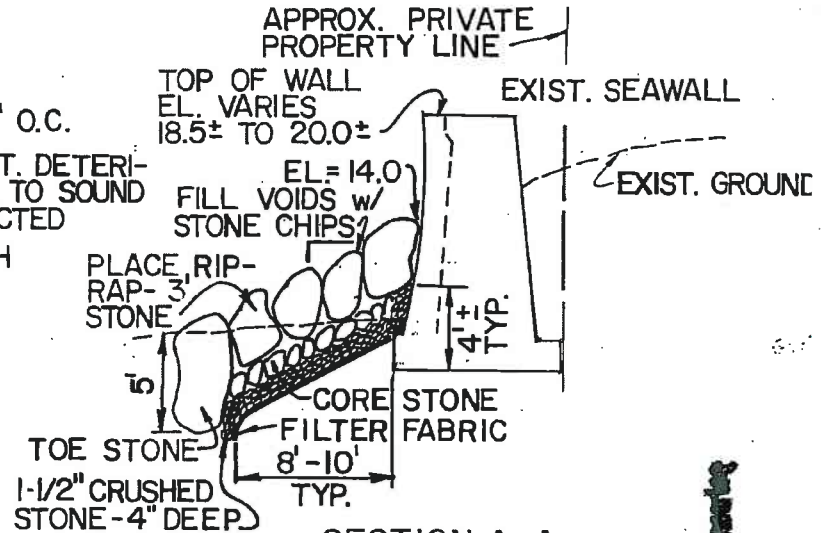
LICENSE PLAN NO. 1442

Approved by Department of Transportation
DATE MAY 22, 1986

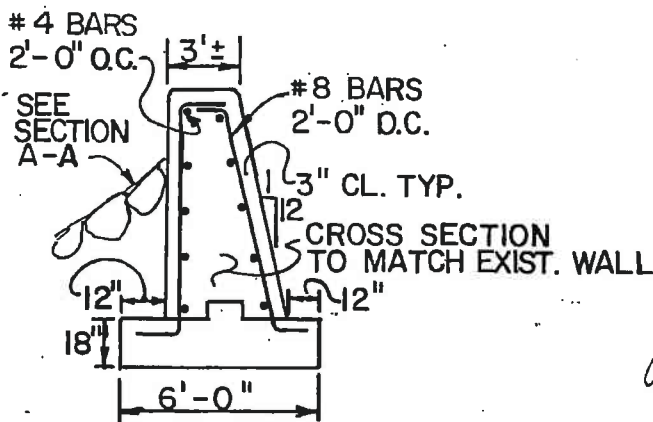




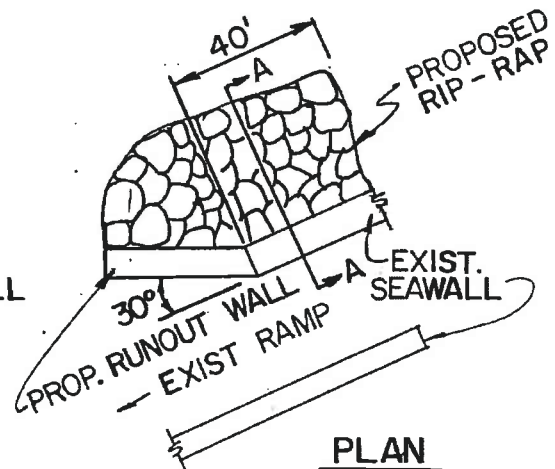
SECTION B-B



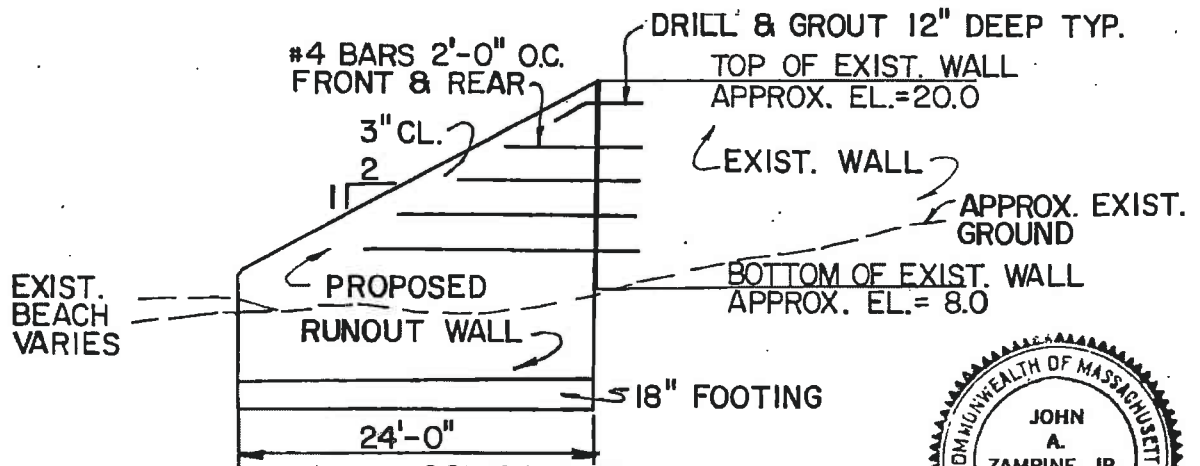
SECTION A-A



SECTION C-C



PLAN



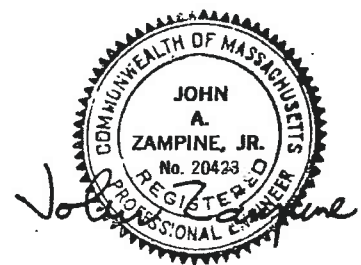
SOUTH ELEVATION

NTS

DETAIL C

NOTE:

THE PROJECT SHALL CONFORM TO SCITUATE WETLANDS FILE # SE 68-399
SUPERSEDED ORDER OF CONDITIONS AS ISSUED BY MASS DEQ OCT 25, 1985



PROJECT NO. 1442

MAY 22, 1986

304

LICENSE PLAN NO. 1442

SHEET 7 OF 7
SAND HILLS SEAWALL
SCITUATE, MASS.
JANUARY 6, 1986

MAY 22, 1986

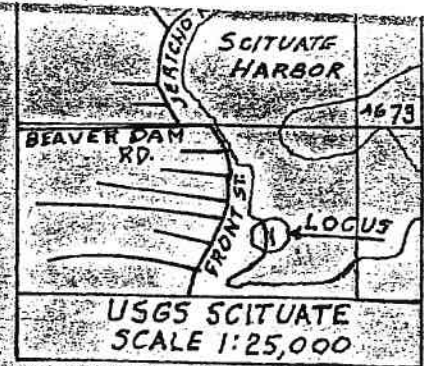
LIST OF ABUTTING PROPERTY OWNERS

Assessors Plan	Parcel	Property Address	Owner & Mailing Address
46	36	183 Turner Rd.	Testa Domonic F. & Mary P. 183 Turner Rd., Scituate, Ma.
46	37	181 Turner Rd.	Blake, Dorothy R. 799 Prospect Ave., W. Hartford, Conn. 06105
40	1	179 Turner Rd.	Blake, John W. 23 Cross Ridge Rd., Chappaqua, N. Y. 10514
"	2	177 Turner Rd.	LoConte, Paul A.
"	3	175 Turner Rd.	17 Charles St., Hyde Park, Ma. 02136 Rich, Dorothy, Trustee, R & C Realty Trust, 84 Bond St., Norwell, Ma. 02062
"	4	173 Turner Rd.	Sullivan Eugene R & Margaret 11 Evans Ave., Bedford, Ma. 01730
"	5	171 Turner Rd.	Hession Gloria V et als (Lf Int)
"	6	" " "	Mail: Shirley R. Hendrickson et al Gannett Pasture Lane, N. Scituate, Ma. 02060
"	7	167 Turner Rd.	Greer, Catherine T. 298 Ashmont St., Dorchester, Ma. 02122
"	8	165 Turner Rd.	McGourty, John J. & Greta A. 10 Highfield Circle, Milton, Ma. 02186
"	9	163 Turner Rd.	Harris, Boyd C. & Martha F. 1019 Acapulco Rd., Jacksonville, Fla. 32216
"	10	161 Turner Rd.	Keefe Douglas 161 Turner Rd., Scituate, Ma. 02066
"	11	159 Turner Rd.	D'Angelo Richard A. et ux 159 Turner Rd., Scituate, Ma. 02066
"	12	157 Turner Rd.	Bell, Richard G. Jr. et ux (Alice) 41 Hatchet Rock Rd., Scituate, Ma. 02066
"	13	155 Turner Rd.	Gaffney, Charles L, Tr., Gaffney Realty Trust 358 Brighton St., Belmont, Ma. 02178
"	14	153 Turner Rd.	Shea, Sheila C et als 153 Turner Rd., Scituate, Ma. 02066
"	15	151 Turner Rd.	Johnson Philip L. & Diane 41 Eildeen Drive, Braintree, Ma. 02184
46	24A, 25, 26	3 Rebecca Rd.	Anne M. Wolczik 37 Everett St., Lynn, Ma.
"	27, 28	27 Lighthouse Rd.	Balzano, Joseph & Phyllis 283 Walk Hill St., Jamaica Plain, Ma. 02130
"	29	29 " "	McNabb Edward J. Jr. & Cynthia 107 Charter St., Boston, Ma.
"	29	25 Lighthouse Rd.	Martell, Richard 23 Lighthouse Rd., Scituate, Ma. 02066
"	30	23 Lighthouse Rd.	Sherman George E. & Marion T. 171 Fort Hill St., Hingham, Ma. 02043
"	31, 32	21 Lighthouse Rd.	Boretti, Richard P. & Jeanne S. P.O. Box 865, Scituate, Ma.
"	19	" " "	Campbell, Peter B. & Barbara M. 64 Washington St., Quincy, Ma. 02169
"	33	17 Lighthouse Rd.	Mulhern, Joseph P. & Jean 73 Armstrong Circle, Braintree, Ma. 02184
"	34	15 Lighthouse Rd.	
"	35	11 Lighthouse Rd.	

068-40-1-46-100
068-40-1-46-100

4084

068-050-001-100
-100



INDEX

- SHEET 1 COVER SHEET AND INDEX
SHEET 2 SITE (BEFORE EXPANSION)
SHEET 3 PLAN
SHEET 4 TYPICAL FLOAT CONSTRUCTION
SHEET 5 TYPICAL MOORING ARRANGEMENT



Robert B. Ladd

80w-061

SHEET 1 OF 5

PLAN ACCOMPANYING PETITION OF
THE TOWN OF SCITUATE
TO CONSTRUCT AND MAINTAIN AN
EXPANSION OF THE TOWN MARINA
AT SCITUATE HARBOR, TOWN OF
SCITUATE, COUNTY OF PLYMOUTH, MASS.

LICENSE PLAN NO. 688

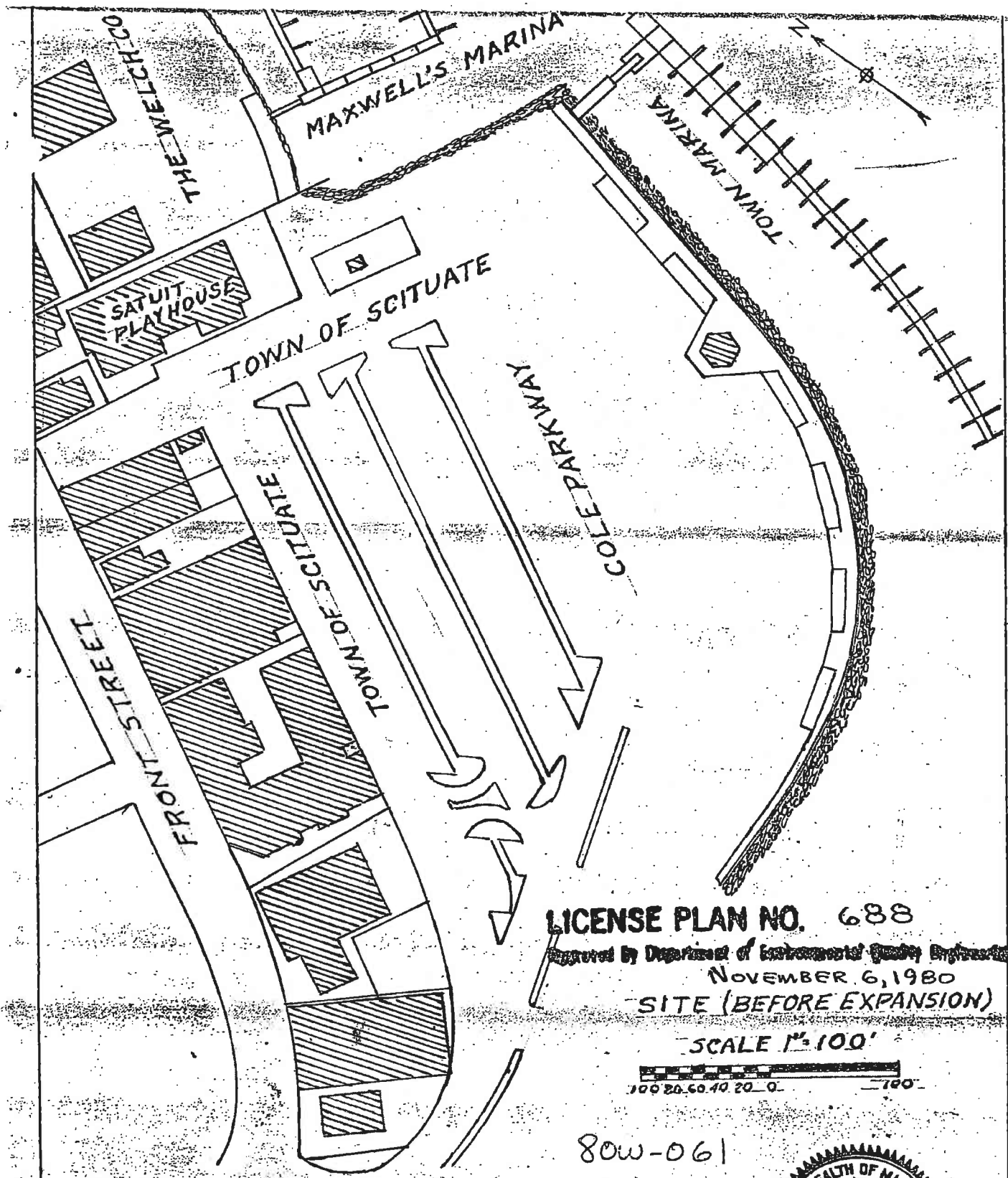
Approved by Department of Environmental Quality Engineering
of Massachusetts

NOVEMBER 6, 1980

COMMISSIONER

CHIEF ENGINEER

John J. Hanney



LICENSE PLAN NO. 688

Approved By Department of Environmental Quality Engineering

NOVEMBER 6, 1980

SITE (BEFORE EXPANSION)

SCALE 1"=100'



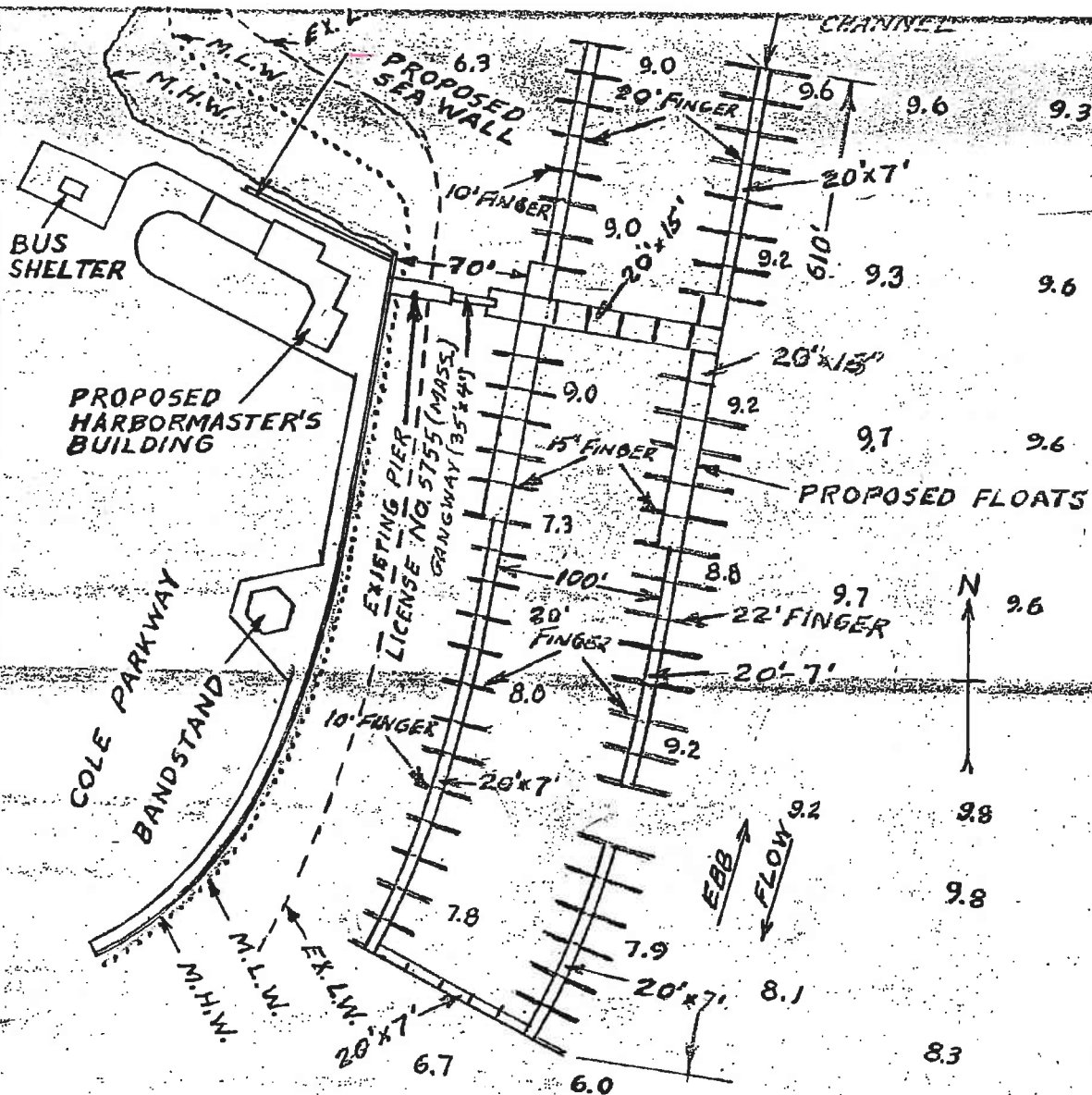
80w-061

PLAN ACCOMPANYING PETITION OF
THE TOWN OF SCITUATE
TO CONSTRUCT AND MAINTAIN AN
EXPANSION OF THE TOWN MARINA
AT SCITUATE HARBOR, TOWN OF
SCITUATE, COUNTY OF PLYMOUTH, MASS.

Robert B. Ladd



SHEET 2 OF 5



PLAN

SCALE 1" = 100'

100 80 60 40 20 0 100

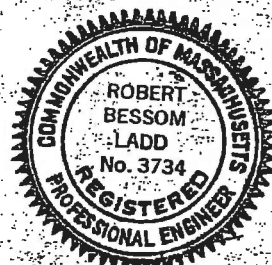
LICENSE PLAN NO. 688

Approved by Department of Environmental Control

NOVEMBER 6, 1980

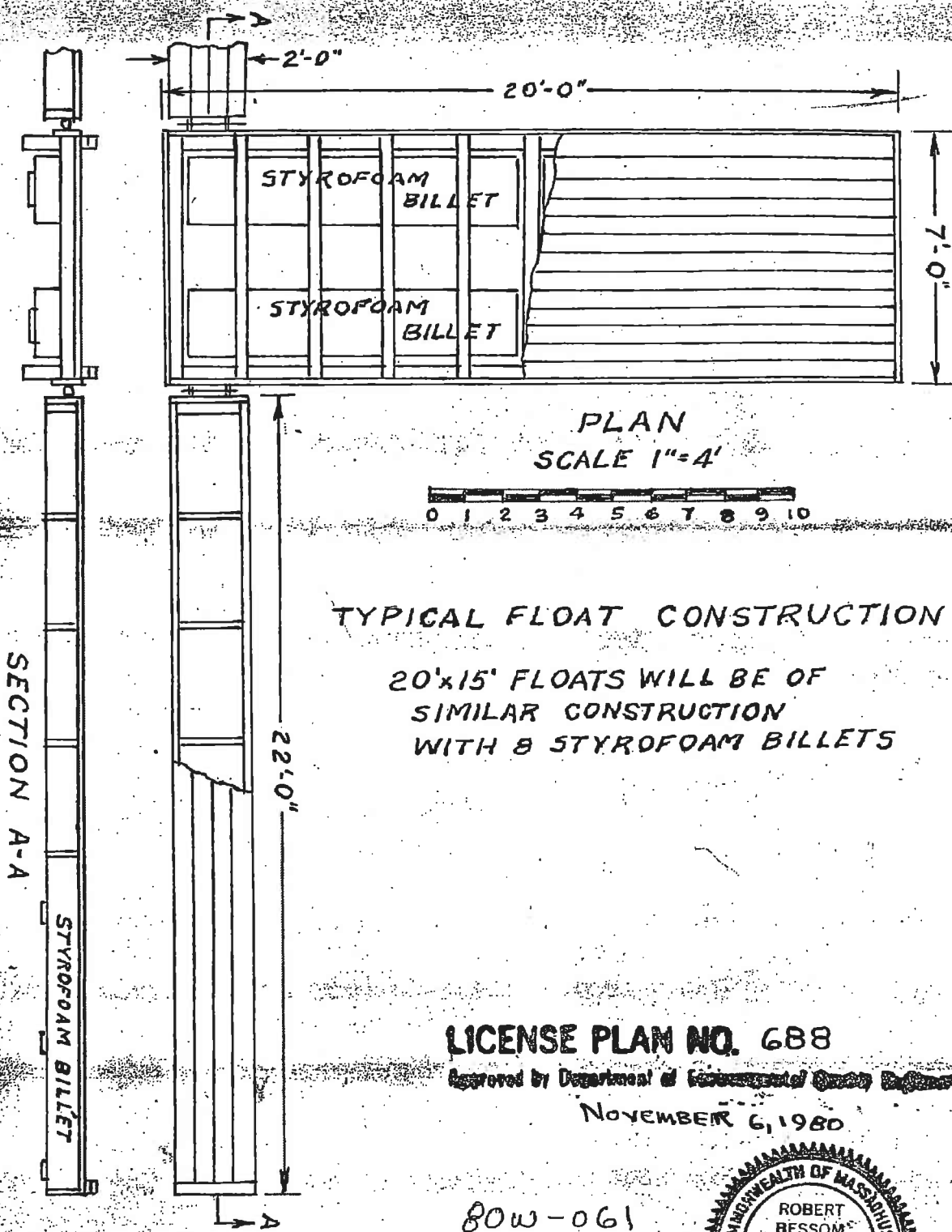
PLAN ACCOMPANYING PETITION OF
THE TOWN OF SCITUATE
TO CONSTRUCT AND MAINTAIN AN
EXPANSION OF THE TOWN MARINA
AT SCITUATE HARBOR, TOWN OF
SCITUATE, COUNTY OF PLYMOUTH, MASS.

80W-061



Robert B. Ladd

SHEET 3 OF 5



TYPICAL FLOAT CONSTRUCTION

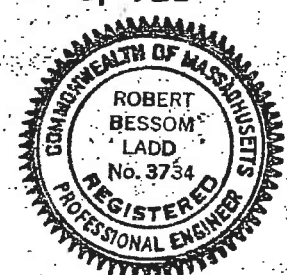
20'x15' FLOATS WILL BE OF
SIMILAR CONSTRUCTION
WITH 8 STYROFOAM BILLETS

LICENSE PLAN NO. 688

Approved by Department of Environmental Quality

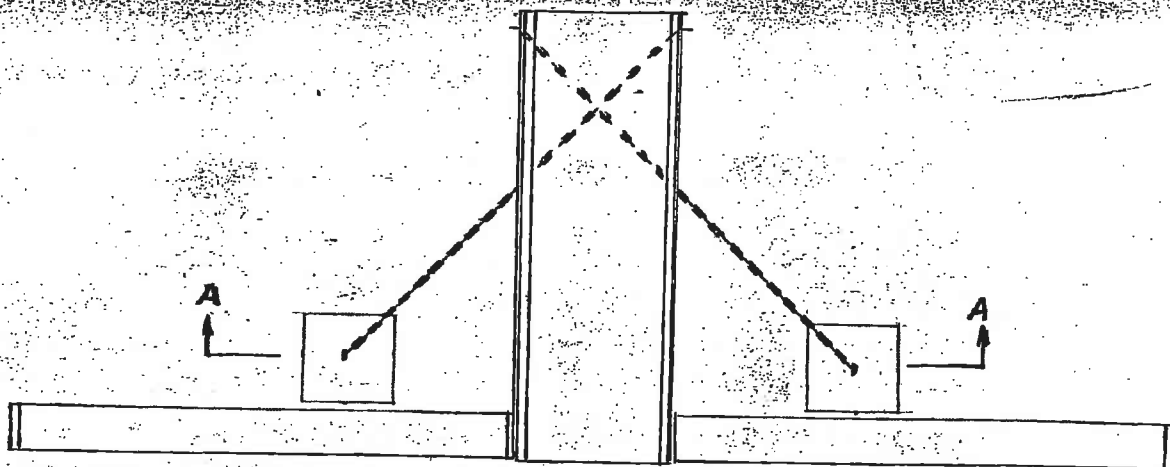
NOVEMBER 6, 1980

80W-061

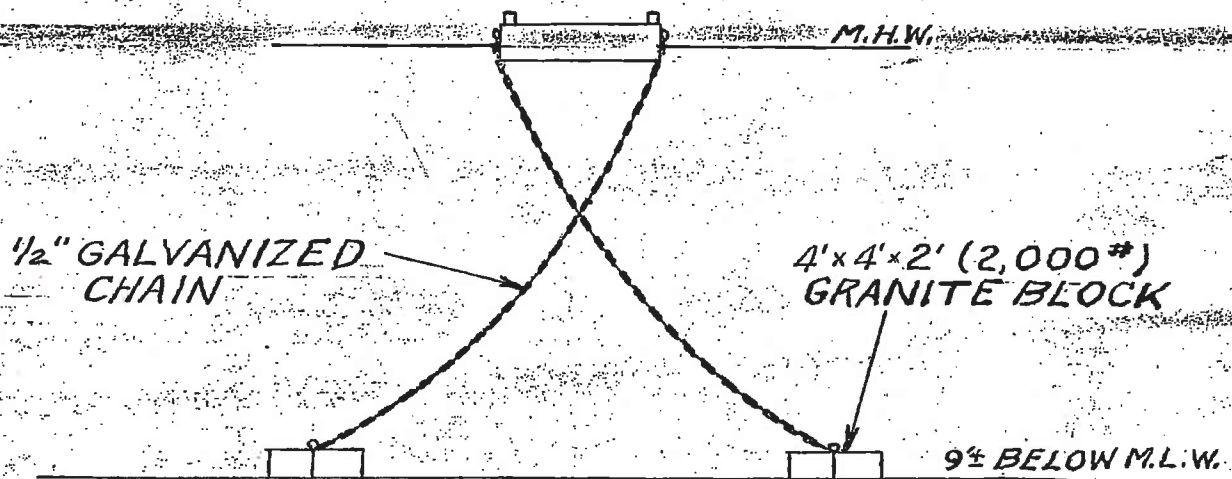


PLAN ACCOMPANYING PETITION OF
THE TOWN OF SCITUATE
TO CONSTRUCT AND MAINTAIN AN
EXPANSION OF THE TOWN MARINA
AT SCITUATE HARBOR, TOWN OF
SCITUATE, COUNTY OF PLYMOUTH, MASS.

Robert B. Ladd

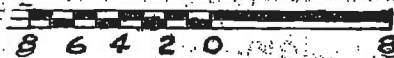


PLAN



SECTION A-A

SCALE $\frac{1}{8}''=1'$

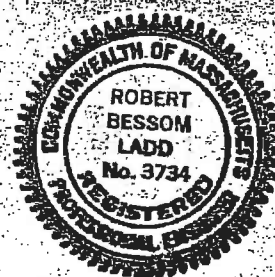


TYPICAL MOORING ARRANGEMENT

LICENSE PLAN NO. 688

Approved by Department of Environmental Quality Regulation 80W-061
 NOVEMBER 6, 1980

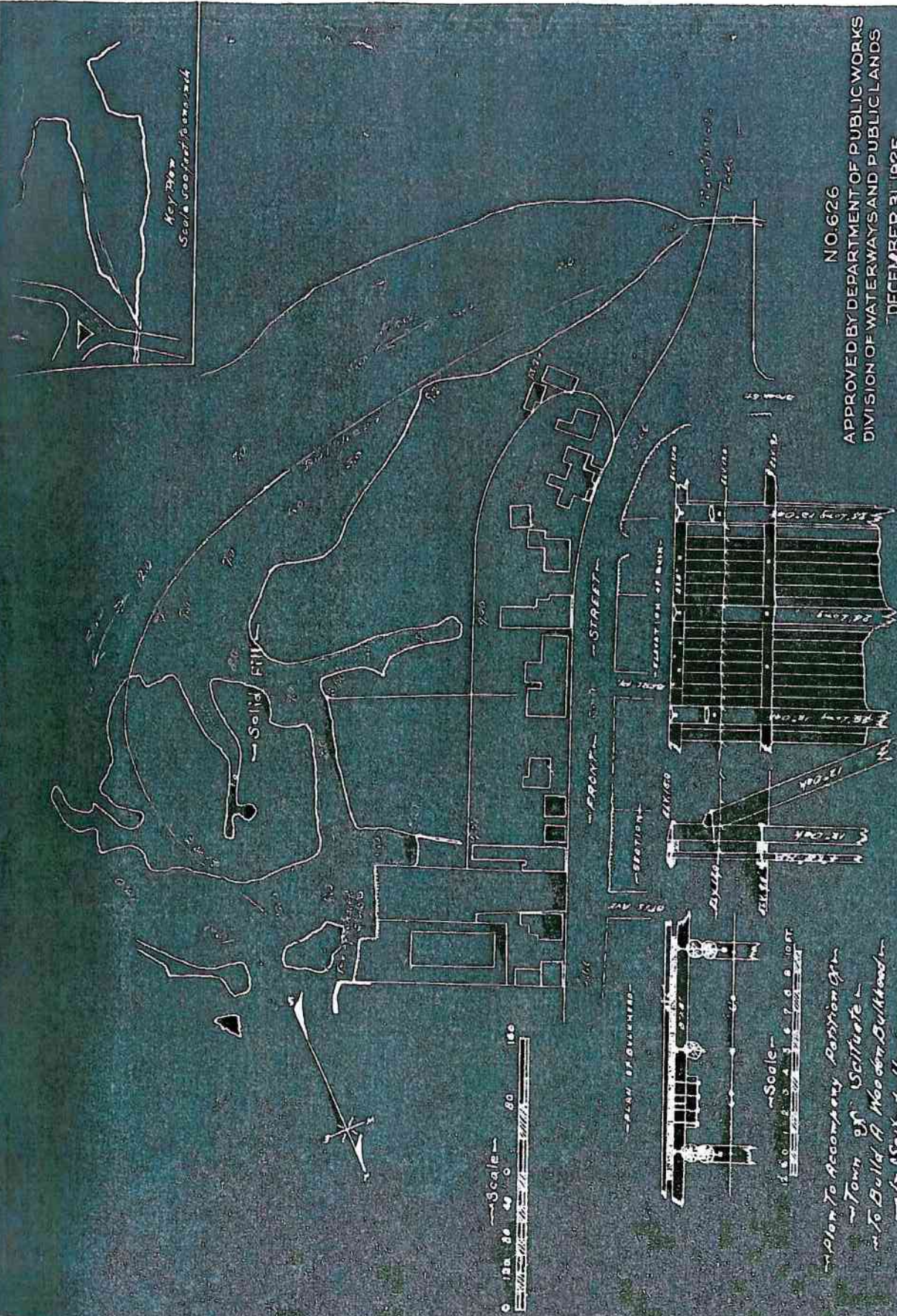
PLAN ACCOMPANYING PETITION OF
 THE TOWN OF SCITUATE
 TO CONSTRUCT AND MAINTAIN AN
 EXPANSION OF THE TOWN MARINA
 AT SCITUATE, HARBOR, TOWN OF
 SCITUATE, COUNTY OF PLYMOUTH, MASS.



Robert B. Ladd

068-50-001-200

068-50-001-100



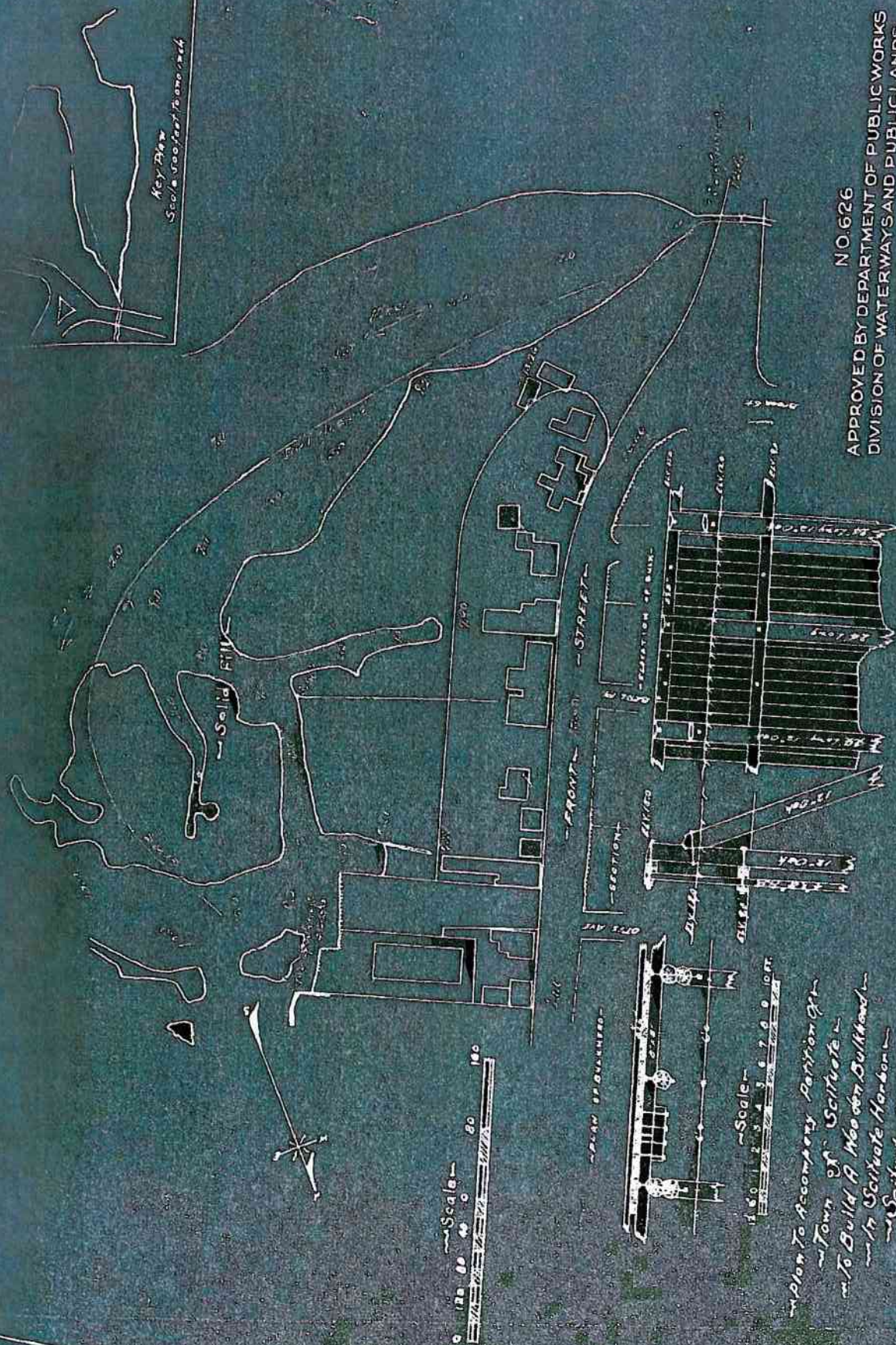
NO. 626

APPROVED BY DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATERWAYS AND PUBLIC LANDS

DECEMBER 31, 1925

William T. Williams { COMMISSIONER OF PUBLIC WORKS
John B. Boston { ASSOCIATE COMMISSIONERS
Richard R. R. R.

Plan to accompany Partition of
Town of Scituate
To Build A Wooden Bulkhead
in Scituate Harbor
Scituate Mass.



NO. 626

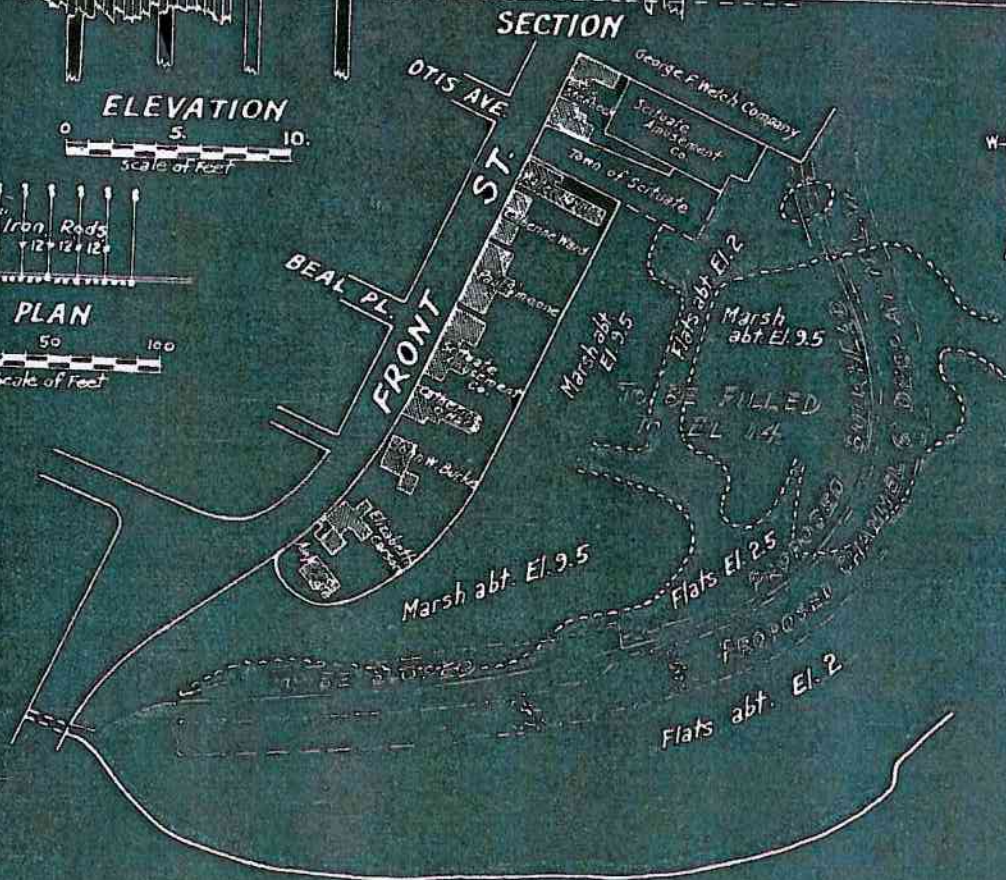
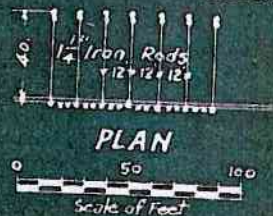
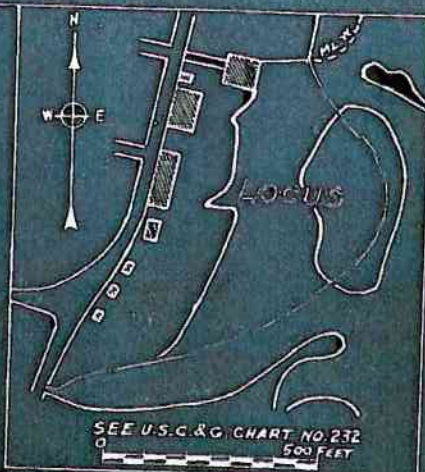
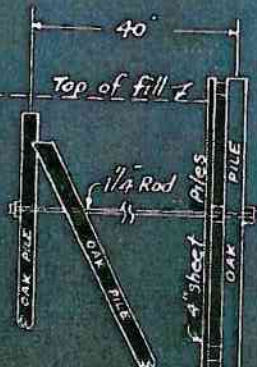
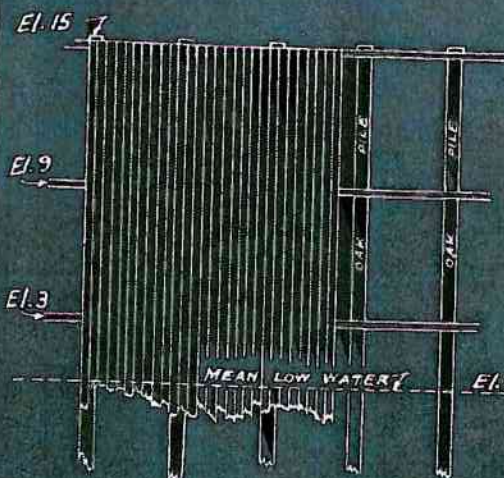
APPROVED BY DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATERWAYS AND PUBLIC LANDS

DECEMBER 31, 1925

William F. Williams { COMMISSIONER OF PUBLIC WORKS
James B. Boston { ASSOCIATE COMMISSIONERS
Victor K. Ketchum {

plan to accompany portion of
town of Scituate
to build a new harbor
in Scituate Harbor
Scituate Mass.

PROPOSED BULKHEAD



Plan to accompany petition of the Town of Scituate to build a bulkhead, dredge a channel and deposit filling at Scituate Mass.
June 18, 1926

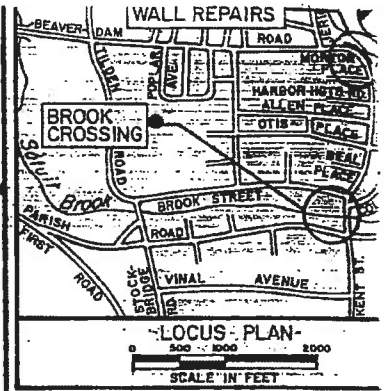
Aspinwall & Lincoln, Civil Engrs.
46 Cornhill - Boston - Mass.



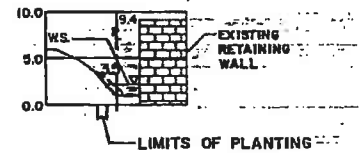
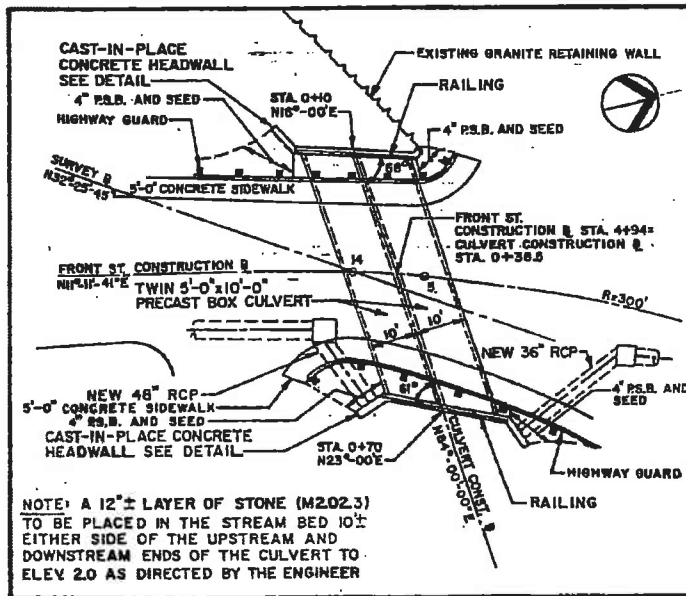
NO. 681

APPROVED BY DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATERWAYS AND PUBLIC LANDS
JULY 8, 1926

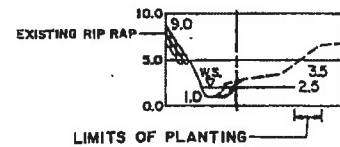
Arthur W. [Signature] { COMMISSIONER OF PUBLIC WORKS
Richard K. [Signature] { ASSOCIATE COMMISSIONERS



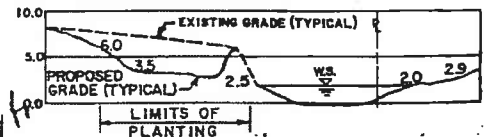
NOTE: MEAN LOW WATER = -3.5
MEAN HIGH WATER = 5.25



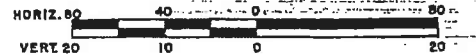
STA. 2+60



STA. 1+60

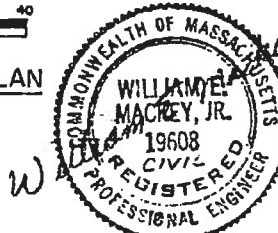


STA. 0+50



SCALE IN FEET
SECTIONS

SATUIT BROOK CULVERT PLAN



3/4/87

SHEET 1 OF 3

87W-080

PLAN ACCOMPANYING PETITION OF
THE MASSACHUSETTS DEPARTMENT
OF PUBLIC WORKS

TO CONSTRUCT AND MAINTAIN
THE SATUIT BROOK CULVERT AND
TO REPAIR AND MAINTAIN THE EXISTING
RETAINING WALL IN THE SCITUATE HARBOR

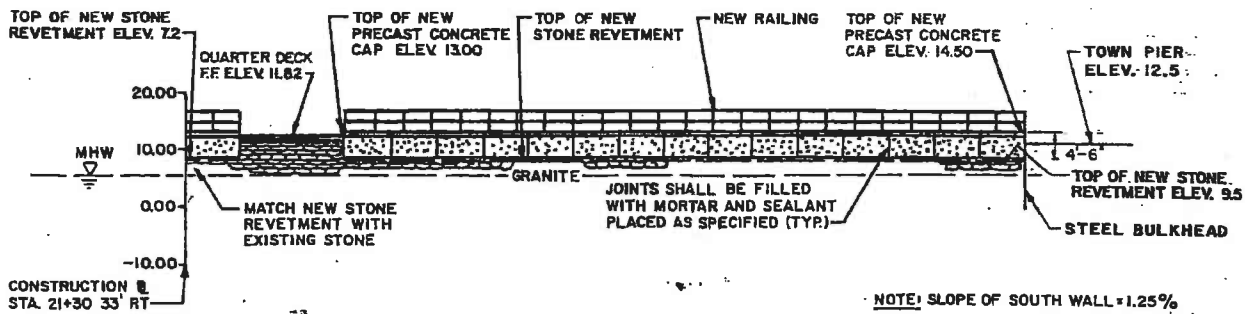
TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.

LICENSE PLAN NO. 1973

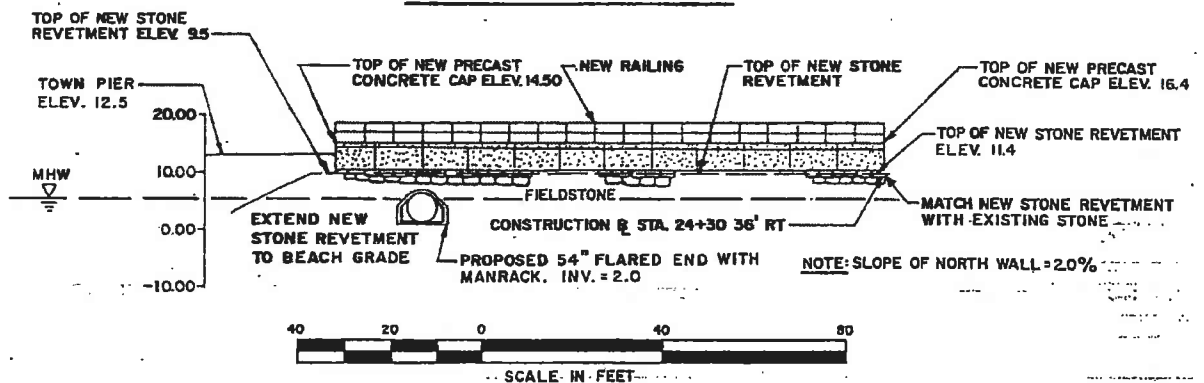
Approved by Department of Environmental Quality Engineer
of Massachusetts

COMMISSIONER
DIVISION DIRECTOR
SECTION CHIEF

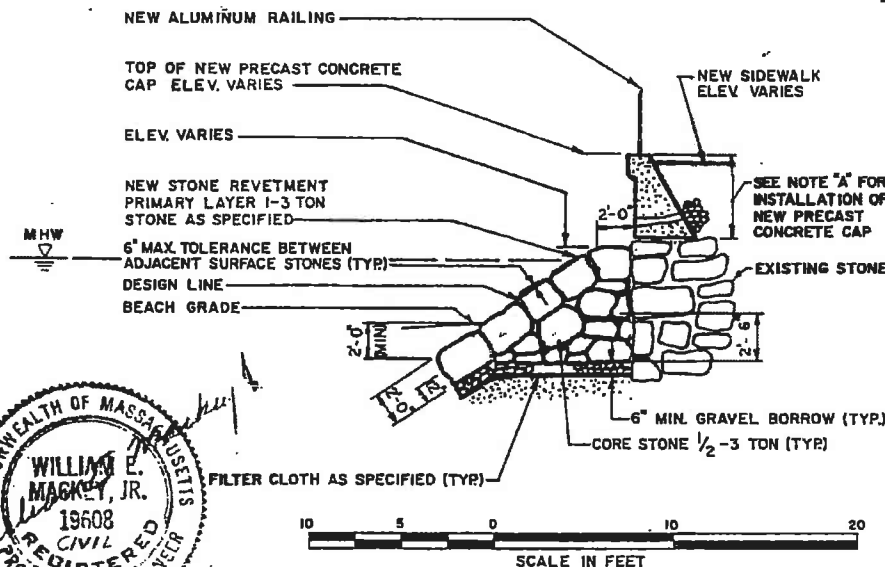
MAY 26 1989



SOUTH WALL ELEVATION

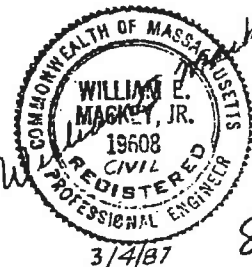


NORTH WALL ELEVATION



NOTE "A"

1. REMOVE EXISTING CONCRETE CAP
2. IF NECESSARY, REMOVE PORTION OF EXISTING GRANITE OR FIELDSTONE WALL AND BUILD UP WALL WITH SIMILAR MATERIAL TO THE REQUIRED ELEVATION.
3. SET PRECAST CONCRETE CAP ON 1" MIN. MORTAR BED
4. PRECAST CONCRETE SECTIONS TO BE 8'-0" MAX.
5. PRIOR TO THE INSTALLATION OF NEW CONCRETE CAP NEW STONE REVELMENT MUST BE CONSTRUCTED
6. AFTER REMOVAL OF THE TOP OF THE EXISTING WALL AND BEFORE PLACEMENT OF THE NEW CAP THE ENGINEER SHALL VERIFY THAT BEDDING CONDITIONS ARE IN ACCORDANCE WITH THE DESIGN.

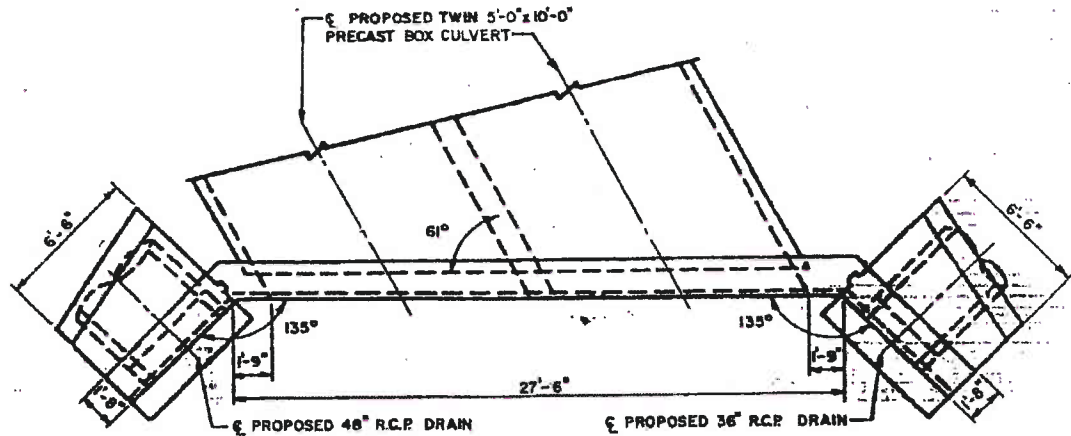


87W-080 RETAINING WALL SECTION

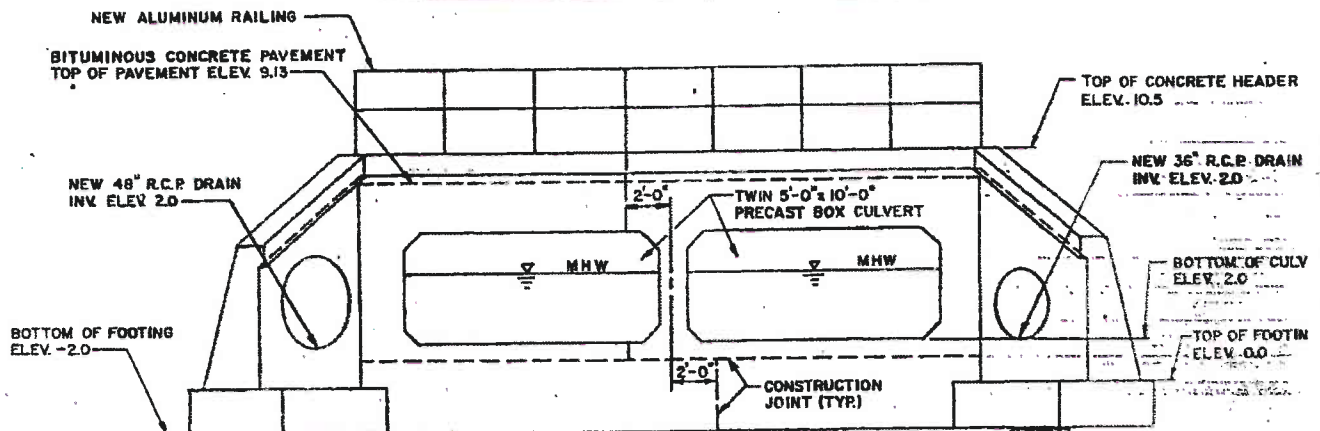
SHEET 2 OF 3

PLAN ACCOMPANYING PETITION OF
THE MASSACHUSETTS DEPARTMENT
OF PUBLIC WORKS
TO CONSTRUCT AND MAINTAIN
THE SATUIT BROOK CULVERT AND
TO REPAIR AND MAINTAIN THE EXISTING
RETAINING WALL IN THE SCITUATE HARBOR
TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.
FEBRUARY 1987 (REVISED NOV. 88)

LICENSE PLAN NO. 1973
Approved by Department of Environmental Quality Engine
Date: MAY 28 1989

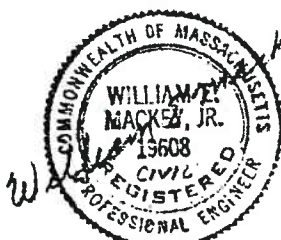


DOWNSTREAM CULVERT HEADWALL PLAN

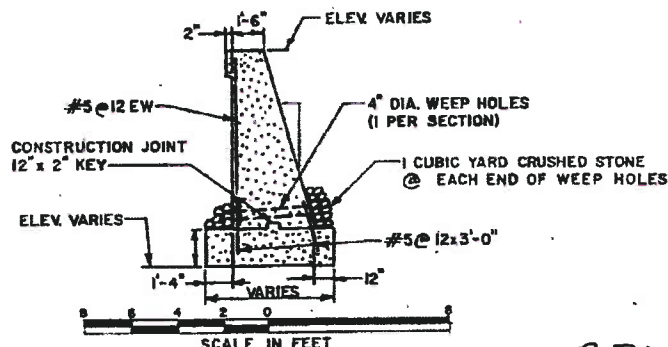


DOWNSTREAM CULVERT HEADWALL ELEVATION

NOTE: MEAN LOW WATER = -3.55
MEAN HIGH WATER = 5.25



3/4/87



END WALLS TYPICAL SECTION

SHEET 3 OF 3

PLAN ACCOMPANYING PETITION OF
THE MASSACHUSETTS DEPARTMENT
OF PUBLIC WORKS
TO CONSTRUCT AND MAINTAIN
THE SATUIT BROOK CULVERT AND
TO REPAIR AND MAINTAIN THE EXISTING
RETAINING WALL IN THE SCITUATE HARBOR
TOWN OF SCITUATE, COUNTY OF PLYMOUTH, MASS.

LICENSE PLAN NO. 1973
Approved by Department of Environmental Quality Engir
Date: MAY 26 1989

87W-080

NOTES:

Elevations and soundings are in feet and tenths and refer to the Datum of Mean Low Water.

This plan is prepared for license purposes only, not for construction.

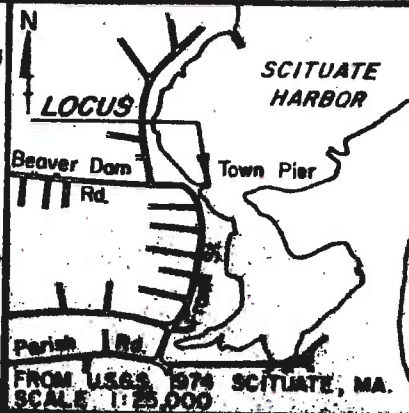
M.T.L. at existing seawall.

Robert J. Morrissey

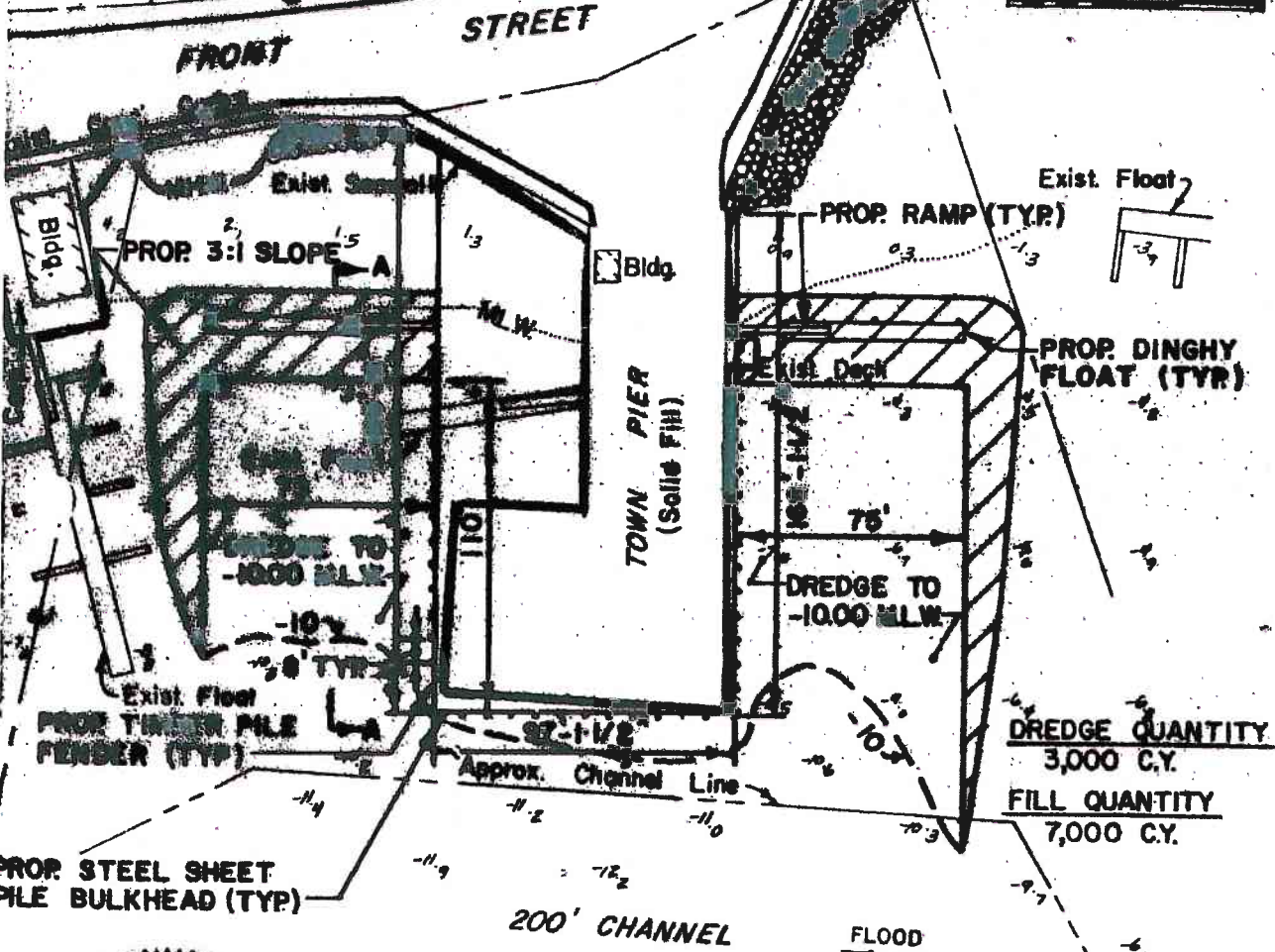
Walter S. & Dorothy M. Foster

J. Edward & Sophia S. Spils

Trustees / Clipper Ship Realty Trust



1000 0 1000 2000



200' CHANNEL

PLAN

60 40 20 0 60
SCALE IN FEET



CIVIL ENGR.
Richard L. Silveira
12/1/79

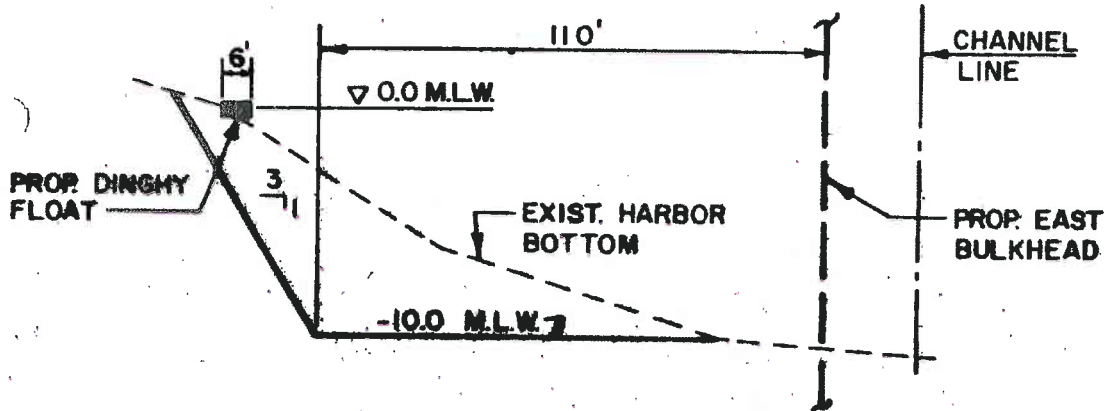
TIDETTE ENGINEERING CONSULTANTS

LICENSE PLAN NO. 7222

Approved by Department of Environmental Quality
of Massachusetts 9/24/80

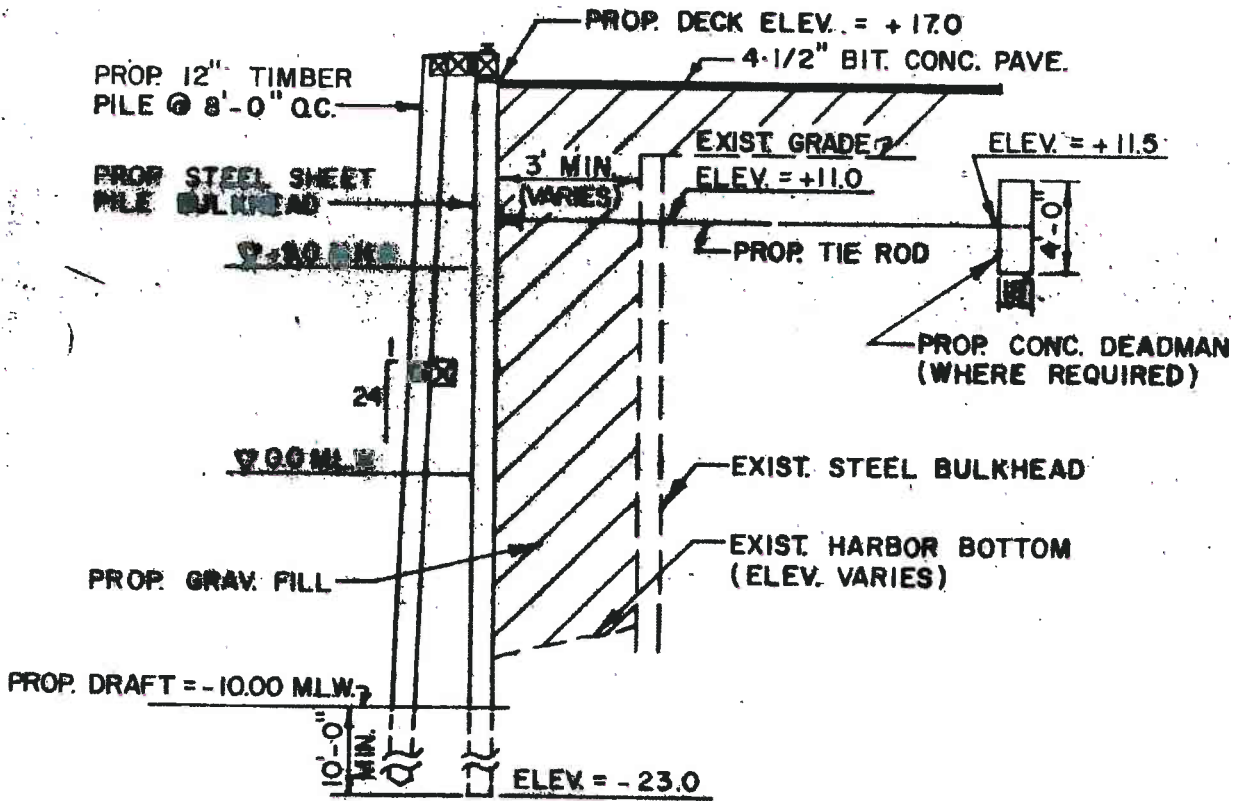
COMMERCIAL
SCITUATE HARBOR
DATE: DEC 1982

068-050-001-001-100
068-050-001-041-100



SECTION A-A - DREDGE AREA

SCALE: 1" = 40' HORIZ.
1" = 8' VERT.



PROPOSED BULKHEAD TYPICAL SECTION

SCALE: 1/8" = 1'-0"

PROJECT PLAN NO. 3223

Department of Environmental & Engineering

SCITUATE, MA. DATE: DEC. 1984

Richard A. Silveira
12/13/84



063-50-001-001-100
068-50-001-041-100

2083

TOWN: SCITUATE

SOURCE: U.S. - ARMY CORPS OF ENGINEERS

LOCATION: U.S.A.C.E. - NEW ENGLAND DISTRICT, CONCORD, MA

DATE OF RESEARCH: AUGUST 2006

1 of 1

BCE Structure No	Document No	Permit/ Drawing Number	Entity	Municipality	Date	Title	Sheets	Location	Description
088-015-001-028-100	088-015-001-028-100-COE1A	CENAE-R- 200003014	USACE	Municipality	NOV 2000	SURFSIDE ROAD SEAWALL REPAIRS	5	SURFSIDE ROAD	SEAWALL AND REVETMENT REPAIRS
088-015-001-034-100	088-015-001-034-100-COE1A	NAE-2008-874	USACE	SCITUATE	APRIL 2008	MORTARED STONE REVETMENT REPAIR, 73-77 SURFSIDE ROAD	3	73-77 SURFSIDE ROAD	MORTARED STONE REVETMENT REPAIR
088-015-001-034-100	088-015-001-034-100-COE1A	CENAE-R- 200003014	USACE	SCITUATE	NOV 2000	SURFSIDE ROAD SEAWALL REPAIRS	5	SURFSIDE ROAD	SEAWALL AND REVETMENT REPAIRS
088-015-001-038-100	088-015-000-038-100-COE1A	NAE-2008-874	USACE	SCITUATE	APRIL 2008	MORTARED STONE REVETMENT REPAIR, 73-77 SURFSIDE ROAD	3	73-77 SURFSIDE ROAD	MORTARED STONE REVETMENT REPAIR
088-015-001-044-100	088-015-001-044-100-COE1A	CENAE-R- 1985012899	USACE	SCITUATE	MAY 1983	BARRIER MOUND REPAIR TO MUSQUASHICUT	3	SOUTH SIDE OF 91 SURFSIDE ROAD	SAND MOUND
088-015-001-044-200	088-015-001-044-200-COE2A	CENED-OR-R- 198802833	USACE	SCITUATE	1983	STONE REVETMENT, 91 SURFSIDE ROAD	2		REVTMENT AT FACE OF BULKHEAD
088-022-008-011F-100	088-022-008-011-100-COE1A	CENAE-R-198501281	TOWN OF SCITUATE	SCITUATE	MAY 1985	BARRIER MOUND REPAIR TO MUSQUASHICUT	1	SOUTH END OF SURFSIDE DRIVE	
088-034-001-017-100	088-034-001-017-100-COE1A	CENAE-R- 200003019	USACE	SCITUATE	JULY 20, 2001	OCEAN DRIVE SEAWALL REPAIRS	8	OCEAN DRIVE SOUTH OF 7TH AVE.	SEAWALL AND REVETMENT REPAIRS
088-034-001-027-100	088-034-001-027-100-COE1A	CENAE-R- 200003019	USACE	SCITUATE	JULY 20, 2001	OCEAN DRIVE SEAWALL REPAIRS	8	OCEAN DRIVE SOUTH OF 7TH AVE.	SEAWALL AND REVETMENT REPAIRS
088-040-001-053-100	088-040-001-053-100-COE1A	CENED-OR-R- 198802282	USACE	SCITUATE	AUG 1988	WALL OPENING WIDENING AND RAMP AT REBECCA ROAD	2	TURNER ROAD, LIGHTHOUSE ROAD & REBECCA ROAD	REVTMENT REPAIR AND BEACH ACCESS
088-046-001-000-100	088-046-001-000-100-COE1A	NAE 2008-973	USACE	SCITUATE	APRIL 2008	STONE REVETMENT 61-81 REBECCA ROAD	5	81-81 REBECCA ROAD	CONCRETE SEAWALL AND REVETMENT REPAIR
088-046-001-000-300	088-046-001-000-300-COE3A	PERMIT 16 OF 1823	MA DPW	SCITUATE	JUNE 1828	PROPOSED JETTY, SCITUATE HARBOR	1	SOUTHWEST FINGER OF NORTH JETTY	
088-046-001-000-300	088-046-001-000-300-COE3A	PERMIT 16 OF 1823	MA DPW	SCITUATE	JUNE 1823	PROPOSED JETTY, SCITUATE HARBOR	1	NORTH SIDE OF HARBOR ENTRANCE	WESTERN FINGER OF NORTH JETTY
088-046-001-014-100	088-046-001-014-100-COE1A	NAE 2008-973	USACE	SCITUATE	APRIL 2008	STONE REVETMENT 61-81 REBECCA ROAD	5	81-81 REBECCA ROAD	CONCRETE SEAWALL AND REVETMENT REPAIR
088-050-001-001-100	088-050-001-001-100-COE1A	REEL 854 FRAME 1385	TOWN OF SCITUATE	SCITUATE	DEC 1884	PERMIT REQUEST TO CONSTRUCT STEEL SHEET PILE BULKHEAD, TIMBER PILE FENDER FLOATS AND DREDGE	3	SCITUATE TOWN PIER	
088-055-008-006-100	088-055-008-008-100-COE1A	CENAE-R- 200002870	USACE	SCITUATE	JUNE 12, 01	2ND CLIFF SEAWALL REPAIR PROJECT	3	2ND CLIFF, BY PIGGOTT ROAD	REVTMENT REPAIR
088-060-001-051-100	088-060-001-051-100-COE1A	CENAE-CO-R- 200003017	USACE	SCITUATE	NOV 2000	THIRD CLIFF SEAWALL REPAIRS	4	THIRD CLIFF, JUST SOUTH OF BY PIGGOTT ROAD	REVTMENT REPAIR
088-064-006-004-100	088-064-006-004-100-COE1A	PERMIT 11 OF 1915	MA DPW	SCITUATE	NOV 12, 1915	EXTENSION OF RIPRAP, THIRD CLIFF	1	THIRD CLIFF	EXTENSION OF RIPRAP
088-064-006-004-100	088-064-006-004-100-COE1A	REEL 338 FRAME 804	MA HARBOR & LANDS	SCITUATE	NOV 1915	EXTENSION OF RIP RAP, THIRD CLIFF	1	OFF MICHAEL AVE	

068-005-003-086-100
068-005-003-078-100
068-005-000-040-100

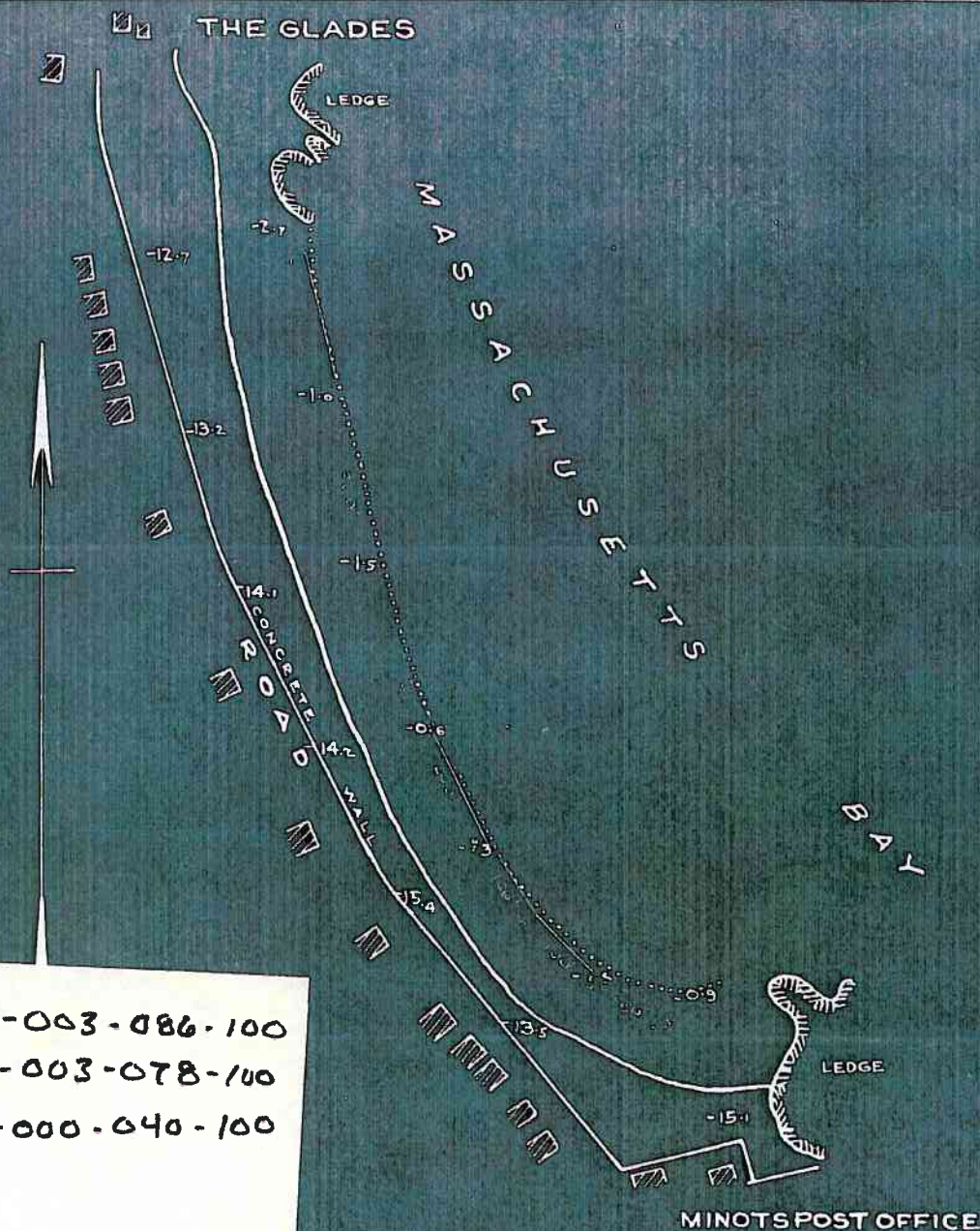
SHEET NO. 1
CONTRACT NO. 33
MINUS FIGURES SHOW ELEVATIONS
ABOVE MEAN LOW WATER.
MEAN RANGE OF TIDE 9.0
SEE U.S.C.S. CHART NO. 109
PROPOSED WORK SHOWN IN RED

COMMONWEALTH OF MASSACHUSETTS
COMMISSION ON WATERWAYS AND PUBLIC LANDS

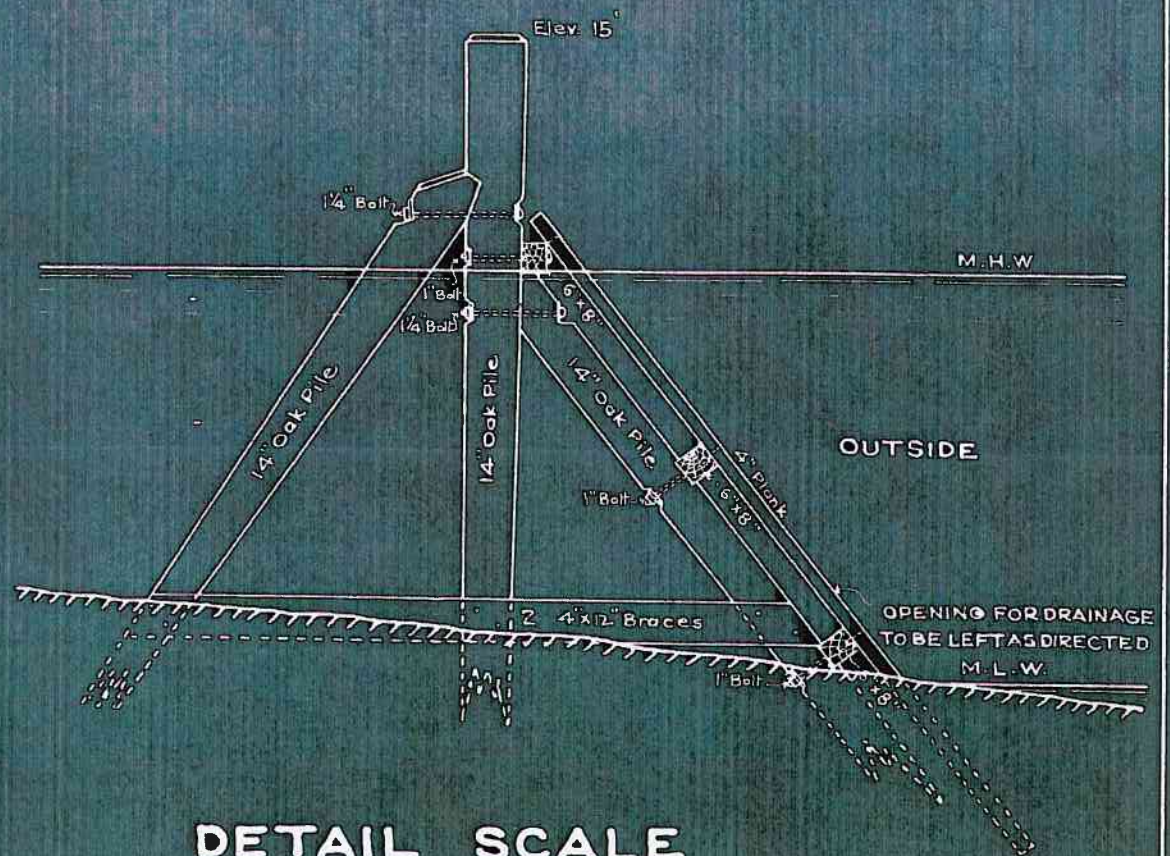
PROPOSED TIMBER BULKHEAD
NORTH SCITUATE BEACH
SCITUATE
AUGUST 1917

100 50 0 100 200 300
FEET

William F. Williams
ENGINEER



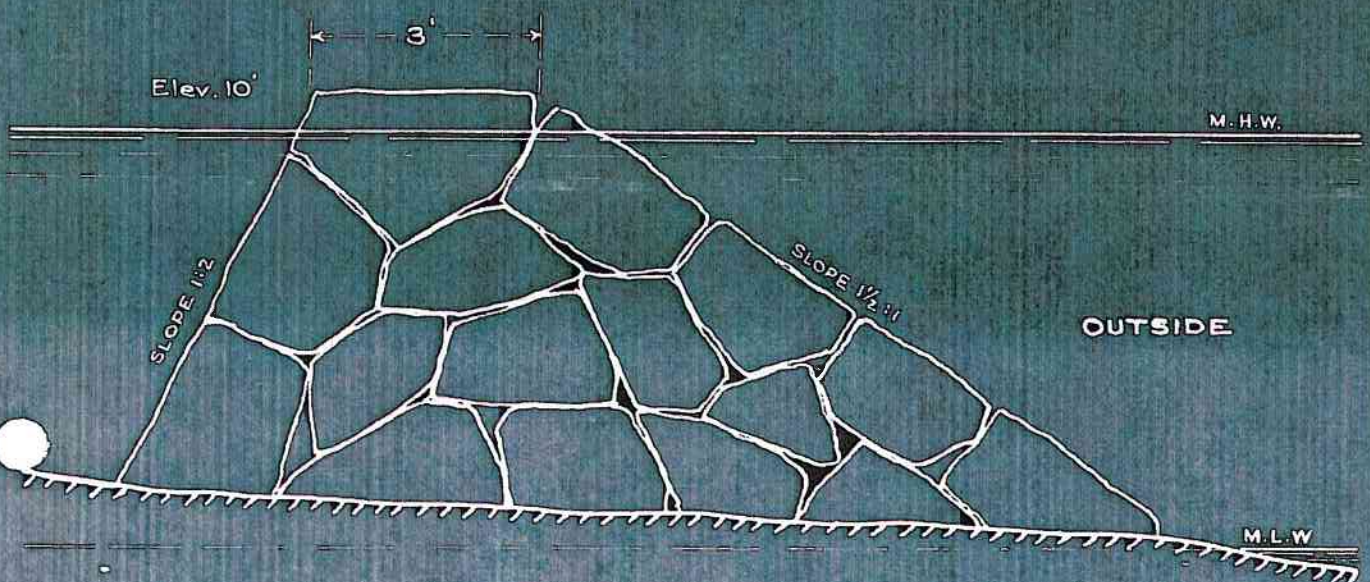
CROSS SECTION PROPOSED TIMBER BULKHEAD



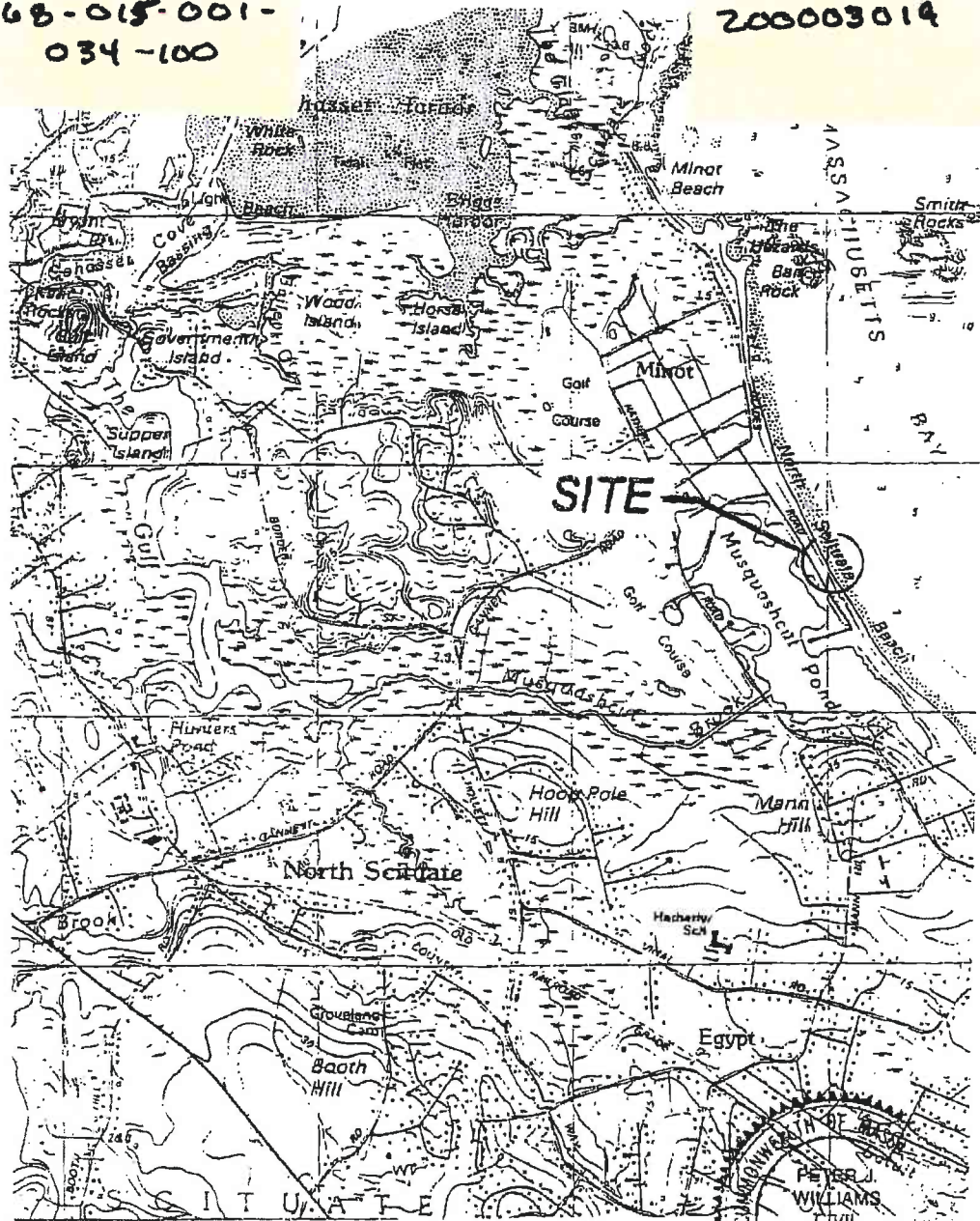
DETAIL SCALE



ALTERNATIVE SECTION OF RIPRAP



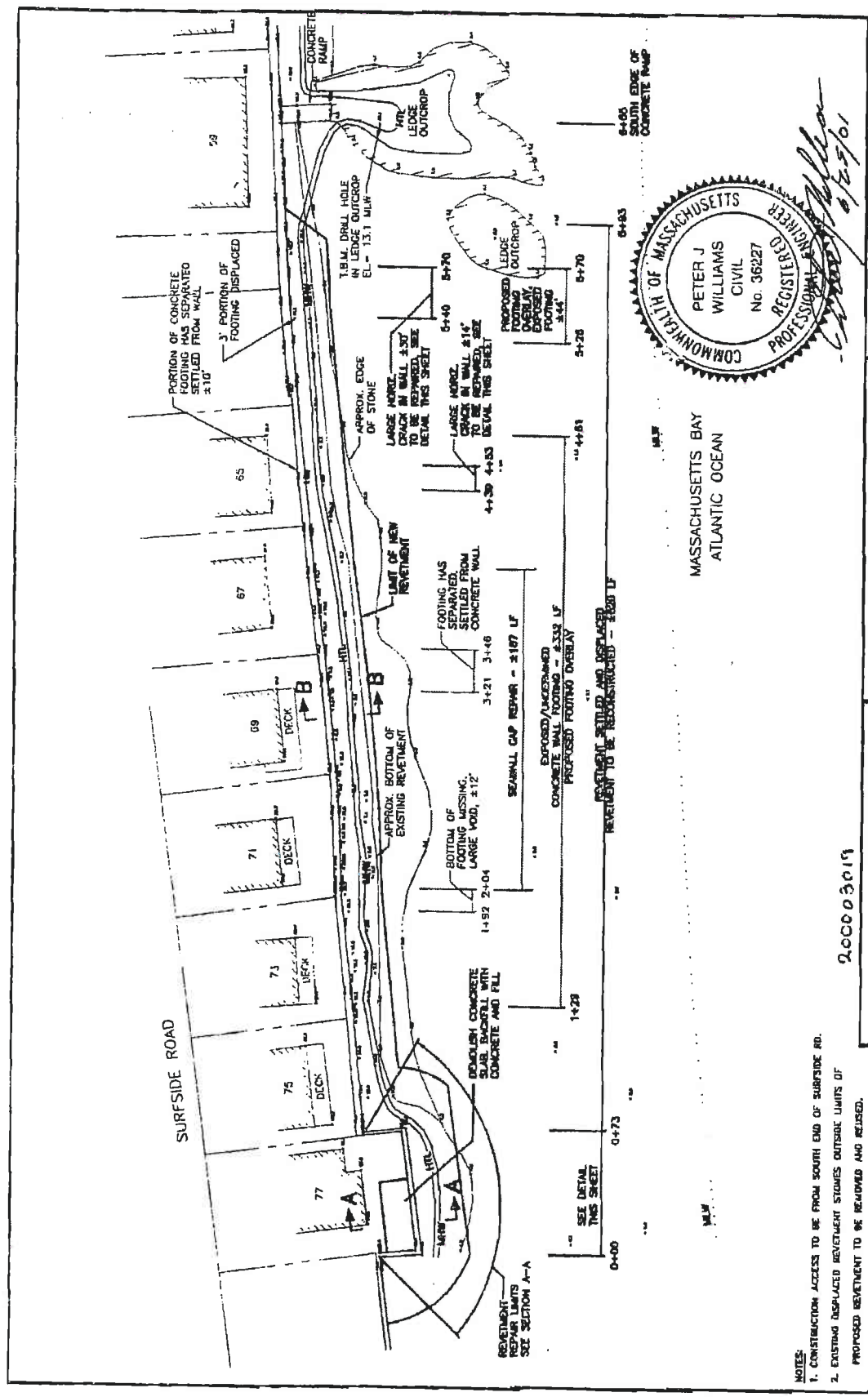
USACE
CENAE-R-
200003014



SCALE: 1" = 2083'

APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA

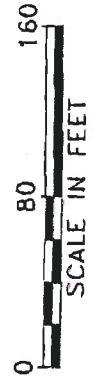
NUCCI VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS



NOTES:
 1. CONSTRUCTION ACCESS TO BE FROM SOUTH END OF SURFSIDE RD.
 2. EXISTING DISPLACED REVENEMENT STONES OUTSIDE LIMITS OF PROPOSED REVENEMENT TO BE REMOVED AND REUSED.

2000003019

DATUM:
 MLW = 0.0
 MHW = 8.8
 HTL = 10.2



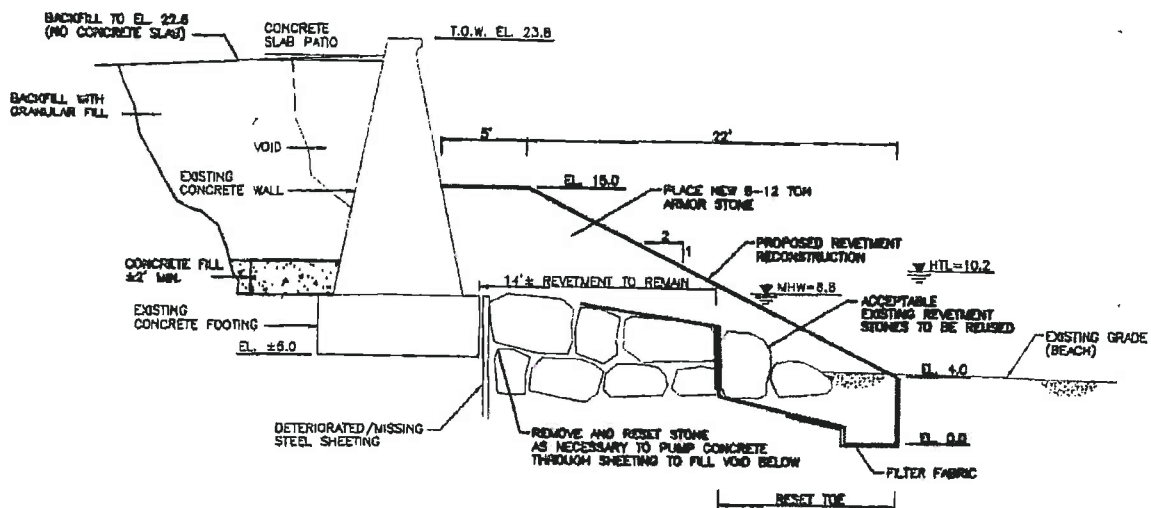
SITE PLAN

AT: SURFSIDE ROAD SCITUATE
 COUNTY: PLYMOUTH
 APPLICATION BY:
 TOWN OF SCITUATE
 600 CJ CUSHING HWY.
 SCITUATE, MA

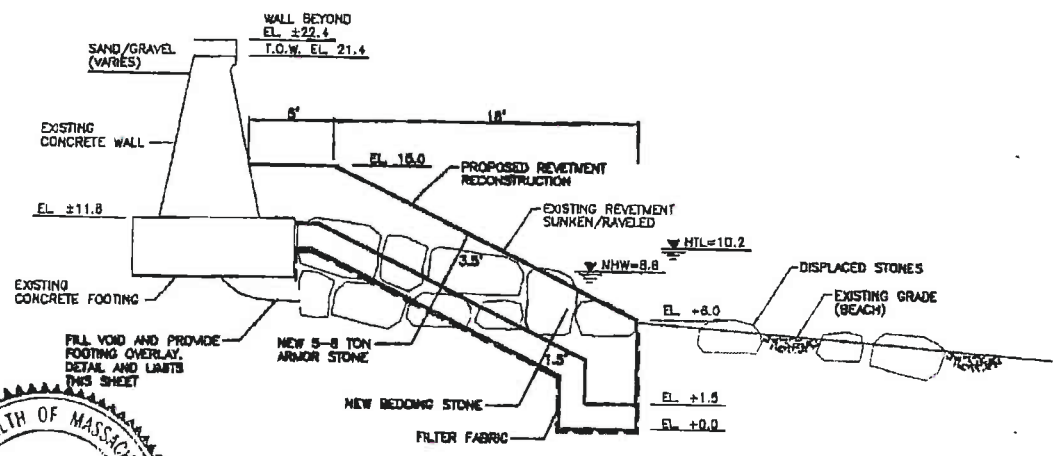
REV. 06/25/01
 DATE: NOV. 2000 SHEET 2 OF 5



MASSACHUSETTS BAY
 ATLANTIC OCEAN

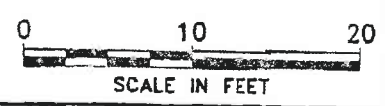


SECTION A-A
STA. 0+00 TO 0+73
 SCALE: 1"=10'



SECTION B-B
STA. 0+73 TO 5+93
 SCALE: 1"=10'

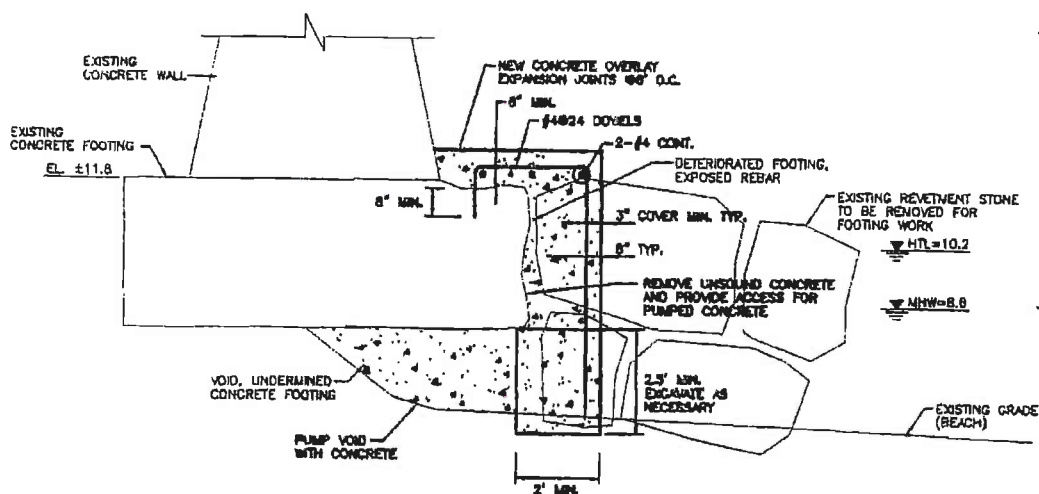
COMMONWEALTH OF MASSACHUSETTS
 PETER J. WILLIAMS
 CIVIL
 No. 36227
 REGISTERED
 PROFESSIONAL ENGINEER
[Signature]
 200003019



DATUM: MLW = 0.0
 MHW = 8.8
 HTL = 10.2

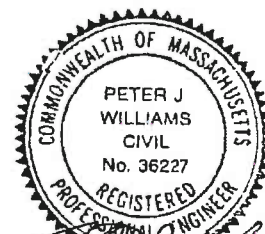
TYPICAL SECTIONS

AT: SURFSIDE ROAD SCITUATE
 COUNTY: PLYMOUTH
 APPLICATION BY:
 TOWN OF SCITUATE
 600 C J CUSHING HWY.
 SCITUATE, MA
 REV. 05/24/01
 DATE: NOV. 2000 SHEET 3 OF 5



FOOTING OVERLAY DETAIL
STA. 1+29 TO 4+61
AND STA. 5+26 TO 5+70

SCALE: 1" = 4'



Peter J. Williams

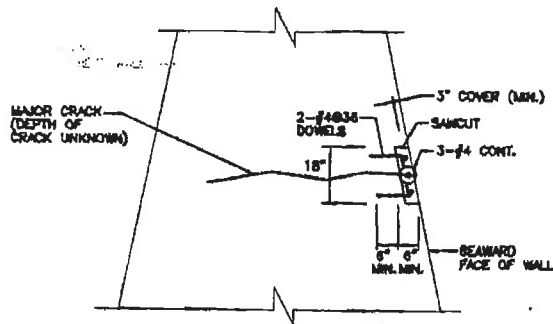
200003019

DATUM: MLW = 0.0
 MHW = 8.8
 HTL = 10.2

**FOOTING
 REPAIR
 DETAIL**

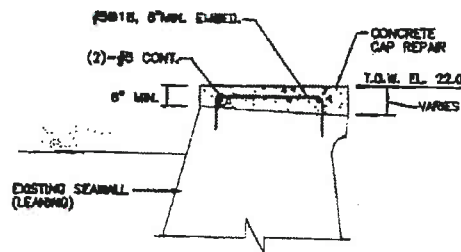
AT: SURFSIDE ROAD SCITUATE
 COUNTY: PLYMOUTH
 APPLICATION BY:
 TOWN OF SCITUATE
 600 C J CUSHING HWY.
 SCITUATE, MA

REV. 05/24/01
 DATE: NOV. 2000 SHEET 4 OF 5



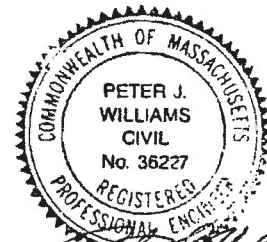
WALL REPAIR DETAIL
STA. 4+39 TO 4+53
AND STA. 5+40 TO 5+70

SCALE: 1" = 4'



SEAWALL
CAP OVERLAY DETAIL

SCALE: 1" = 4'



200003019

DATUM: MLW = 0.0
 MHW = 8.8
 HTL = 10.2

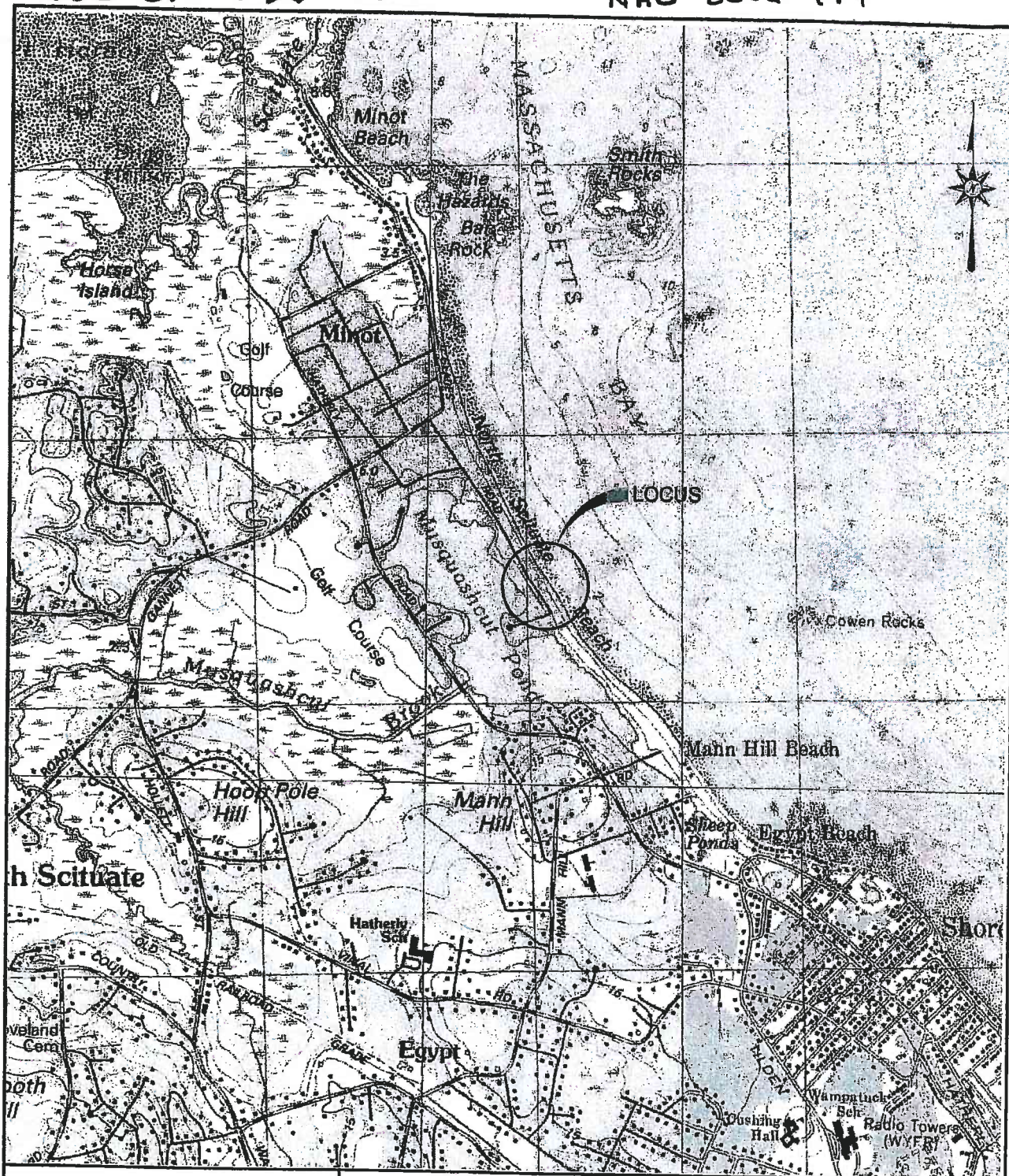
REPAIR DETAILS

AT: SURFSIDE ROAD SCITUATE
 COUNTY: PLYMOUTH
 APPLICATION BY:
 TOWN OF SCITUATE
 600 C J CUSHING HWY.
 SCITUATE, MA

REV. 05/24/01
 DATE: NOV. 2000 SHEET 5 OF 5

068-015-001-034
068-015-000-038

USACE
NAE-2006-874



DATUM: MLW = 0.0
MHW = 8.8
HTL = 11.0

LOCUS PLAN
#73-#77 SURFSIDE RD.
SCITUATE, MA

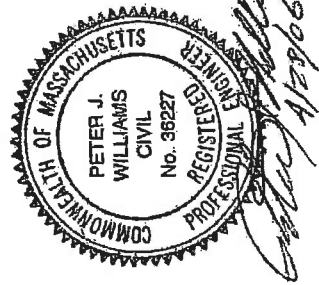
AT: SCITUATE SHORELINE
ATLANTIC OCEAN
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C.J. CUSHING WAY
SCITUATE, MA

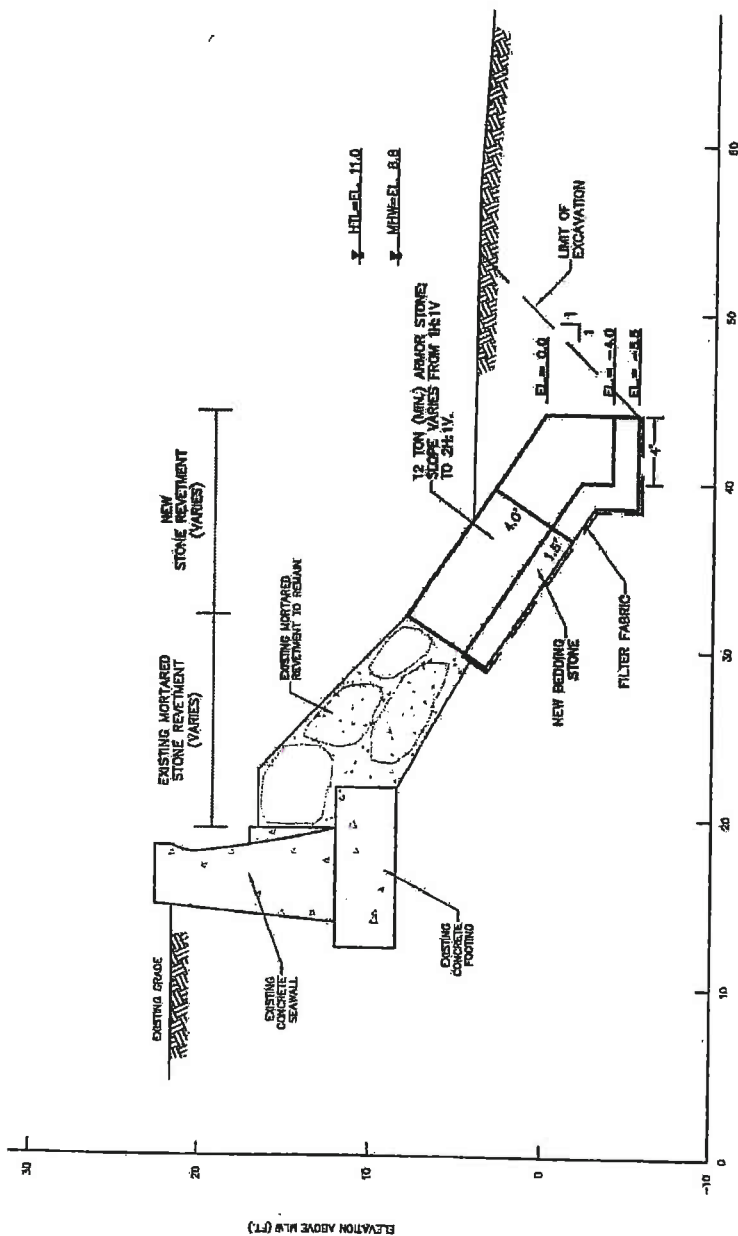


SITE PLAN
#73-#77 SURFSIDE RD.
SCITUATE, MA

0 15 30
SCALE IN FEET

VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

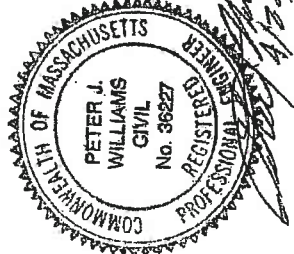




AT: SCITUATE SHORELINE
ATLANTIC OCEAN
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C.J. CUSHING WAY
SCITUATE, MA

MORTARED STONE REVENMENT
TYPICAL REPAIR SECTION
#73-#77 SURFSIDE RD.
SCITUATE, MA

DATUM:
MLW = 0.0
MHW = 8.8
HTL = 11.0



APRIL 2008 (Rev.) SHEET 3 OF 3

VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

USACE #
1995 Q1 269

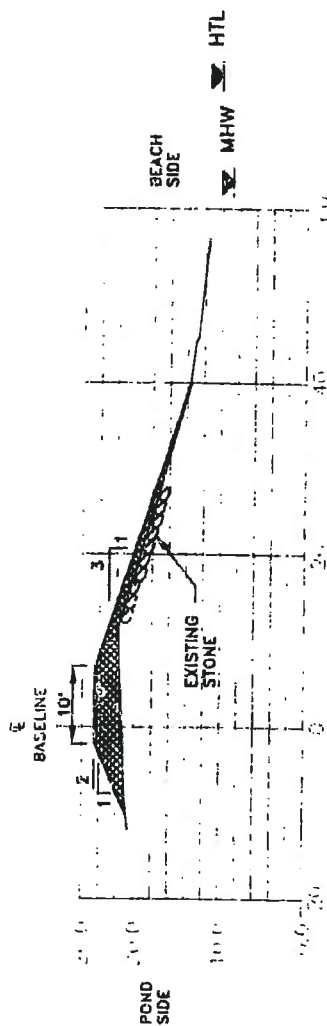
TOWN OF SCITUATE
BARRIER MOUND
REPAIR TO MUSQUASHICUT

SITE PLAN

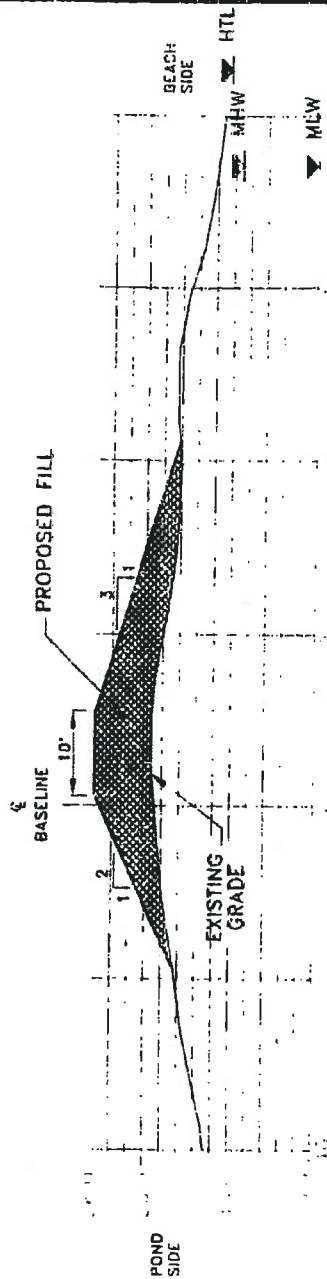
MAY 1995

FIGURE #2

ASSOCIATES INC NEW BEDFORD MASSACHUSETTS



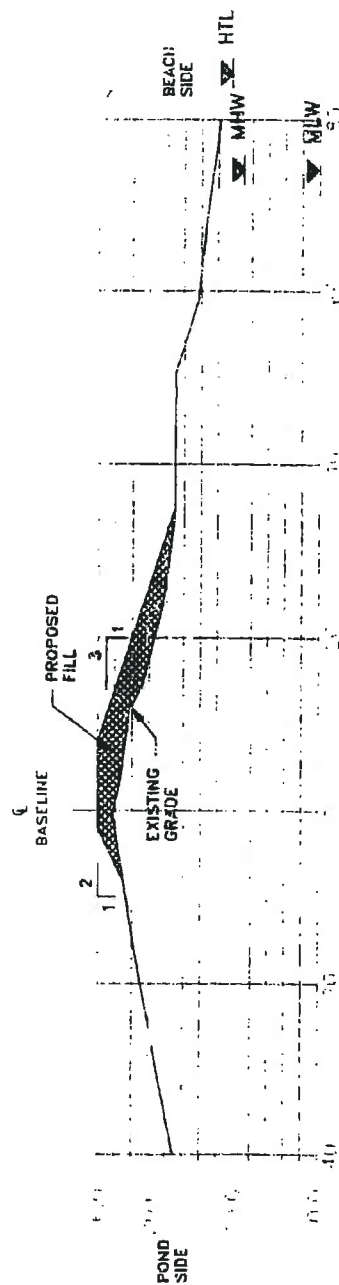
SECTION A-A



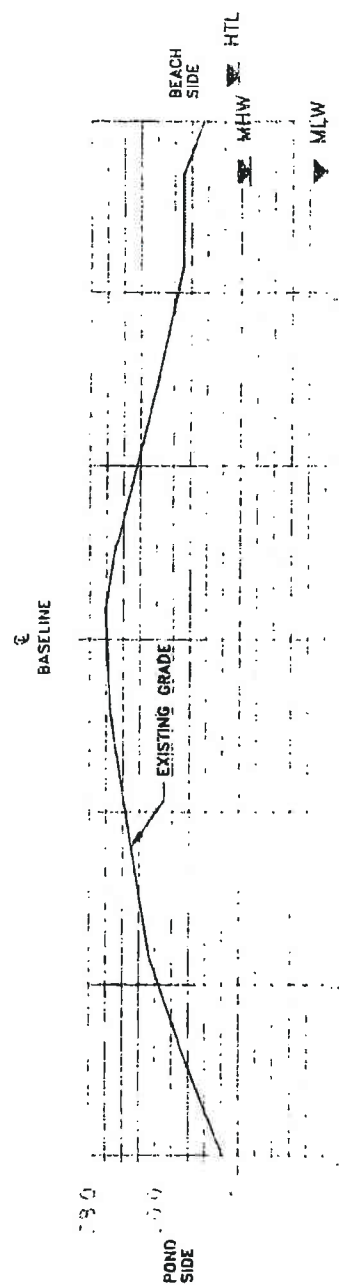
SECTION B-B

SECTIONS
SCALE 1" = 20' HORIZ
1" = 2' VERT.

TOWN OF SCITUATE	
REPAIR TO MUSQUASHICUT BARRIER MOUND	
SECTIONS	
MAY 1995	FIGURE 3



SECTION C-C



SECTION D-D

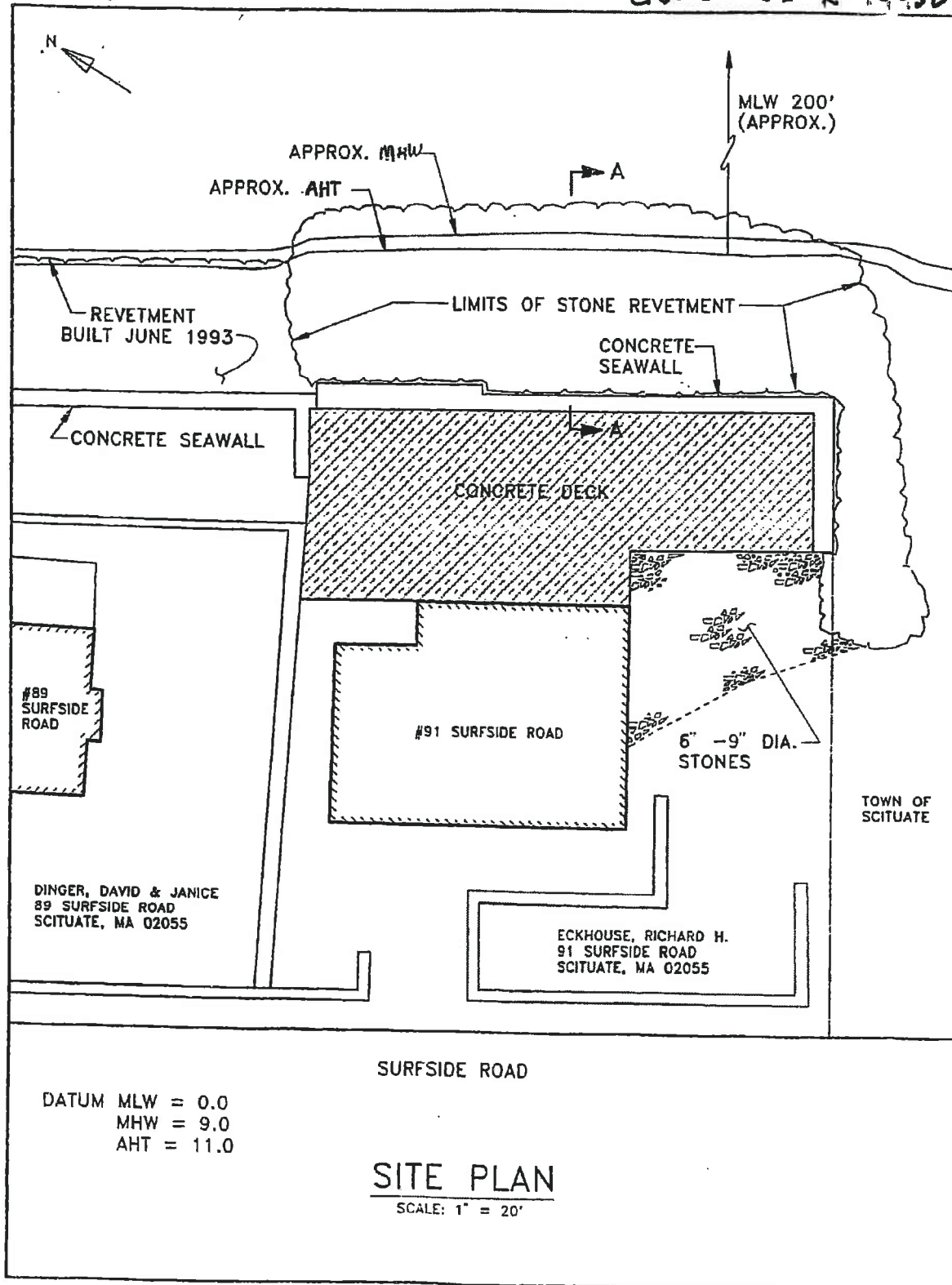
SECTIONS
SCALE 1" = 20' HORIZ
1" = 2' VERT.

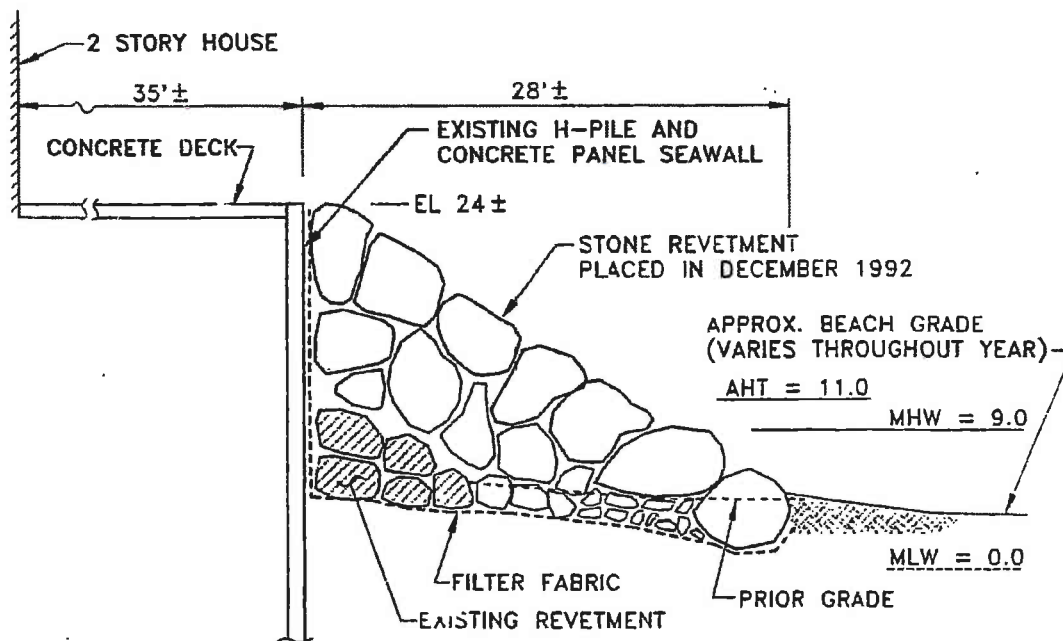
TOWN OF SCITUATE	
REPAIR TO MUSQUASHICUT BARRIER MOUND	
SECTIONS	
MAY 1995	FIGURE 4

068-015-001-044-200

USACE

CENCO-OD-R-100302833





SECTION A-A

SCALE: 1" = 10'

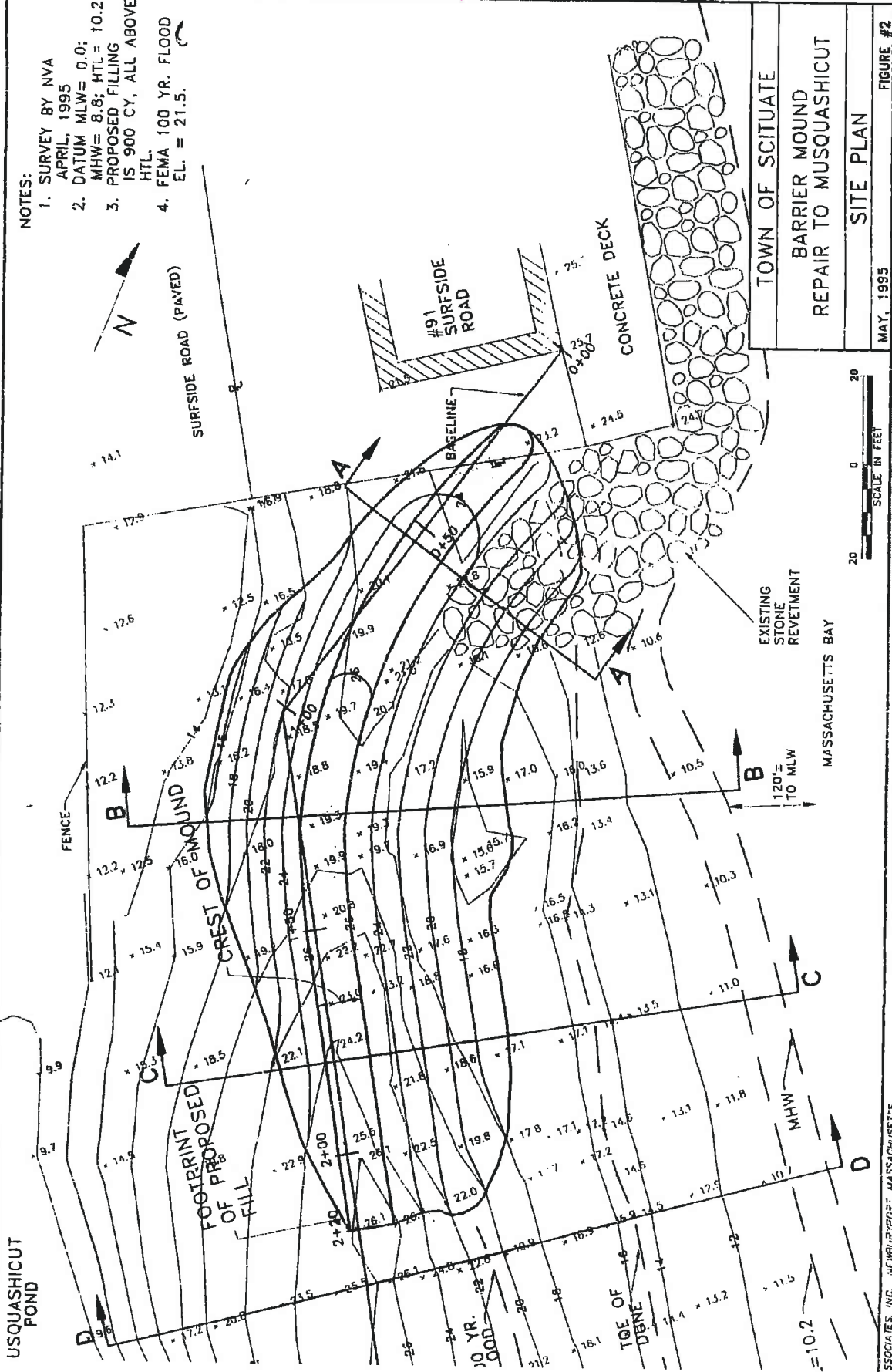
NOTE:

TOTAL VOLUME STONE FILLING = 850 C.Y. (ESTIMATED)
 VOLUME BELOW MHW LEVEL = 300 C.Y.
 VOLUME BELOW AHT LEVEL = 450 C.Y.

068-22-008-011-100

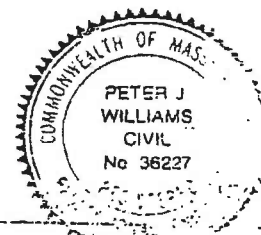
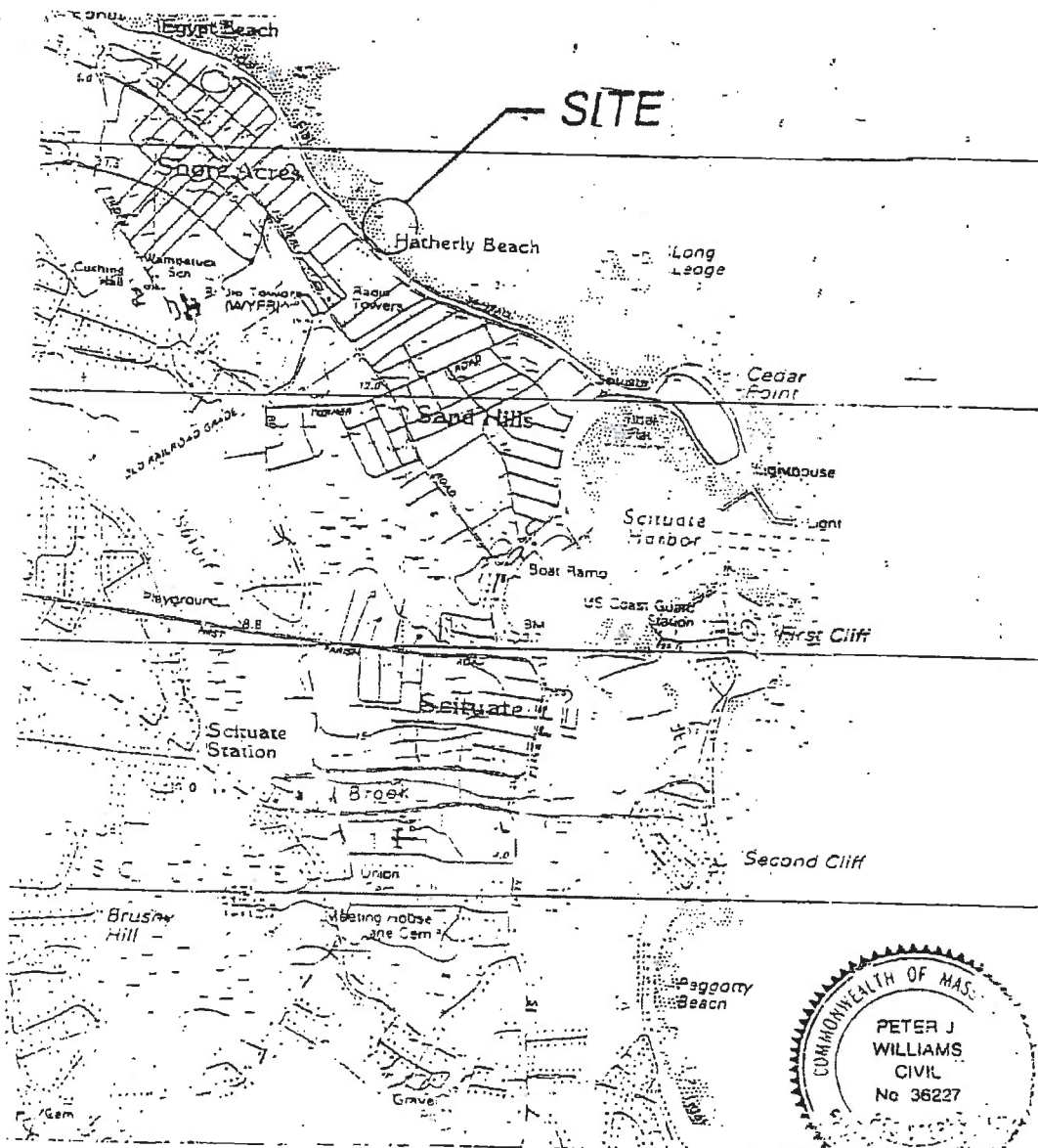
NOTES:

1. SURVEY BY NVA
APRIL, 1995
2. DATUM MLW = 0.0;
MHW = 8.8; HTL = 10.2
3. PROPOSED FILLING
IS 900 CY, ALL ABOVE
HTL.
4. FEMA 100 YR. FLOOD
EL. = 21.5.



068-034-001-017-100
068-34A-001-027-100

USACK #
CENAE-R-200003019



[Handwritten signature]

SCALE: 1" = 2083'

200003018

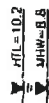
DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

LOCUS PLAN OCEANSIDE DRIVE SEAWALL REPAIRS

AT: OCEANSIDE DRIVE SCITUATE
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA

REV: 07/03/01 REV: 7/20/01
DATE: NOV. 2000 SHEET 1 OF 6





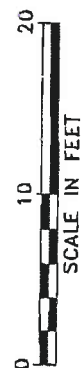
AT: OCEANSIDE DRIVE SCITUATE
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 CJ CUSHING HWY.
SCITUATE, MA

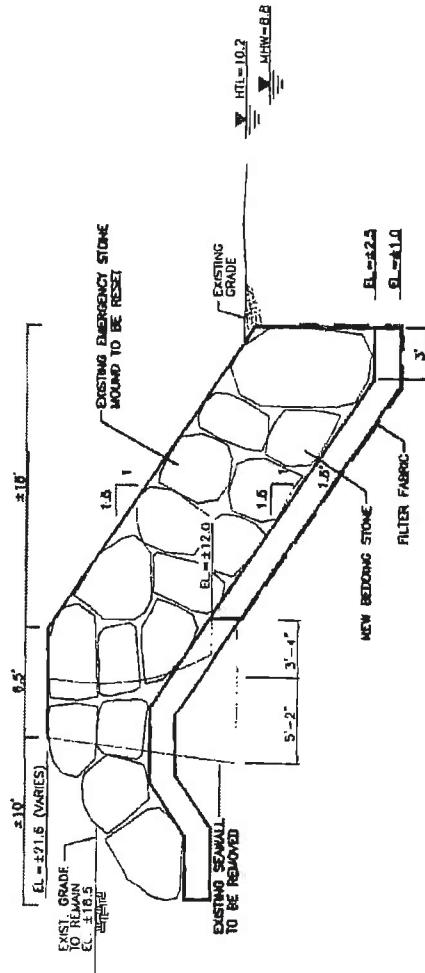
REV. 07/03/01
DATE: NOV. 2000
3/20/01
SHEET 4 OF 6

SECTION B-B

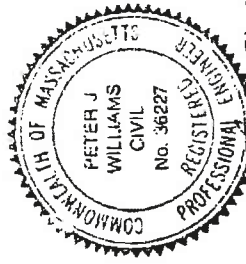
DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

NINCO VIN ASSOCIATES, INC. HINGHAM, MASSACHUSETTS





SECTION C-C
STA. 1+80 TO 2+30
SCALE: 1" = 10'



Peter J. Williams

200003018

AT: OCEANSIDE DRIVE SCITUATE
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 CUSHING HWY.
SCITUATE, MA
REV. 07/03/01 7/20/01
DATE: NOV. 2000 SHEET 5 OF 6

SECTION C-C

DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

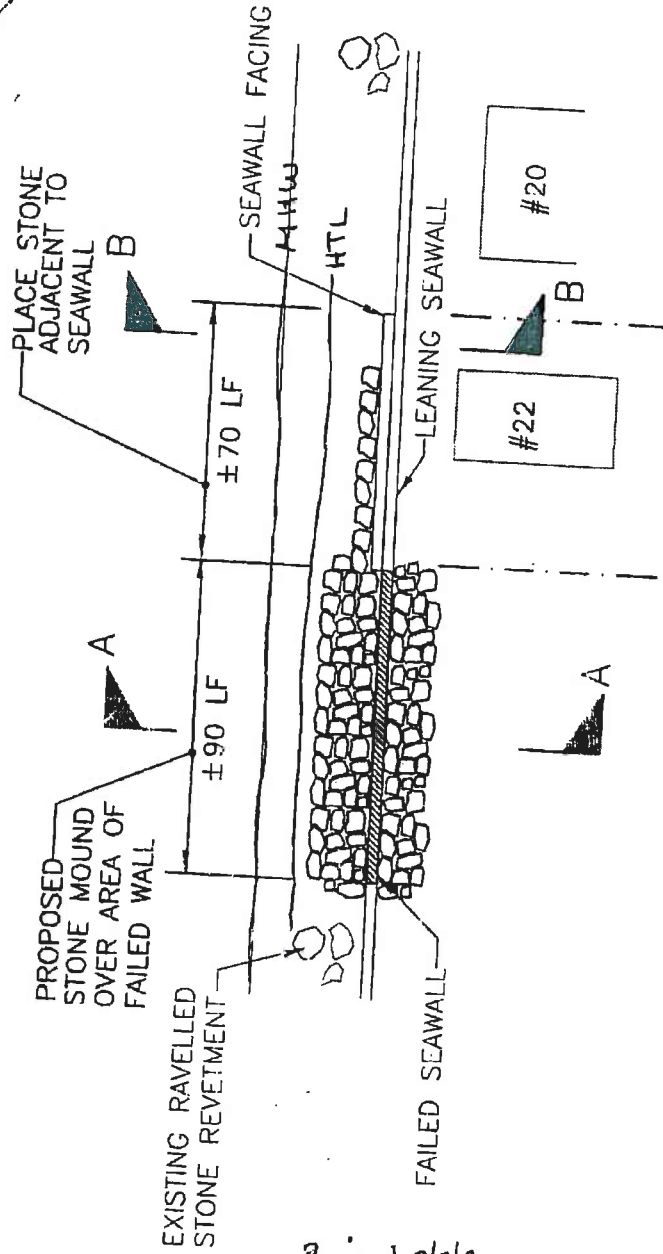


WILLIAMS ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

USACE*
 CENAE -
 R199800455

068-040-001-53-100

MASSACHUSETTS BAY

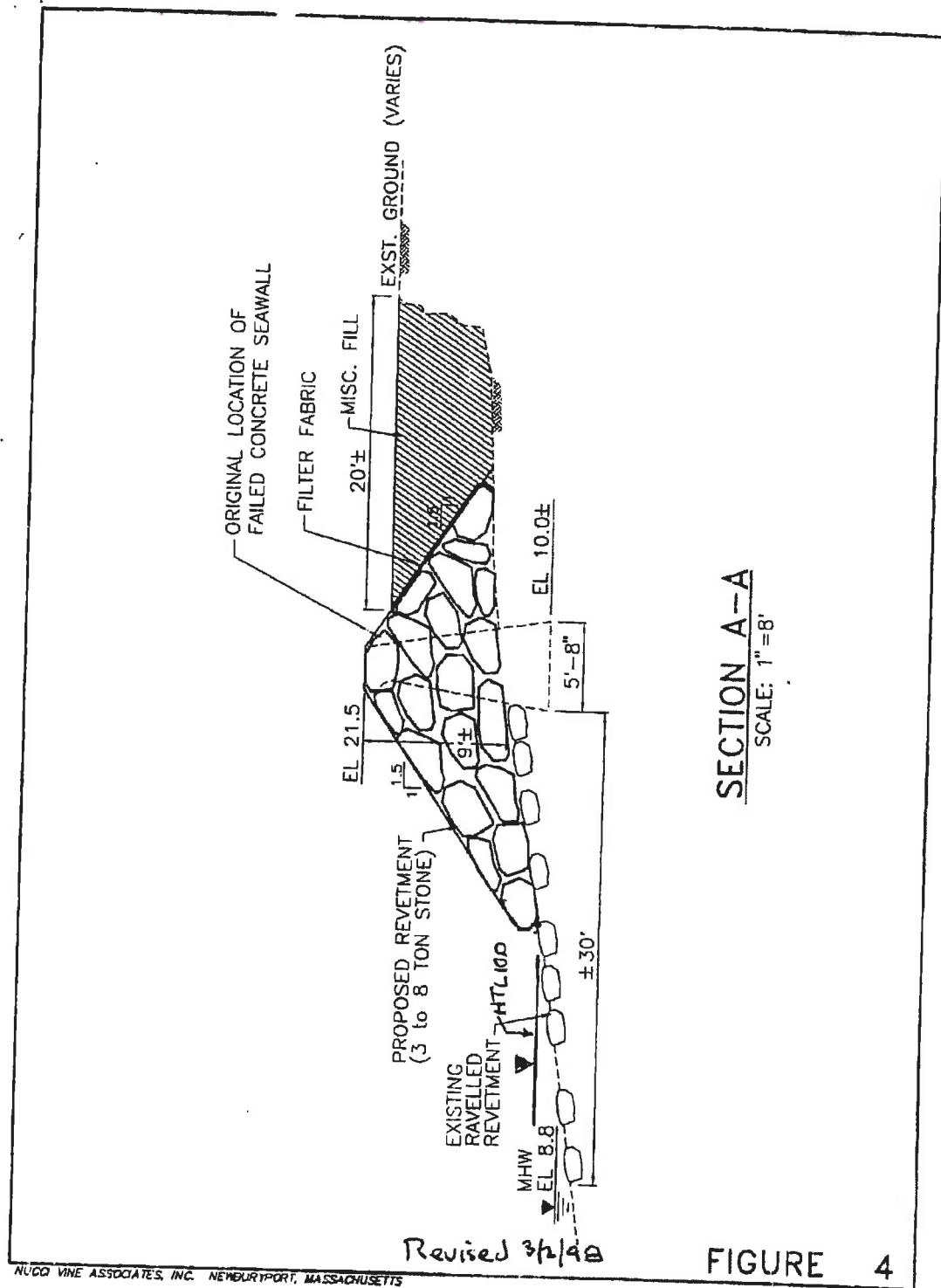


PROPOSED WORK PLAN

SCALE: 1"=40'

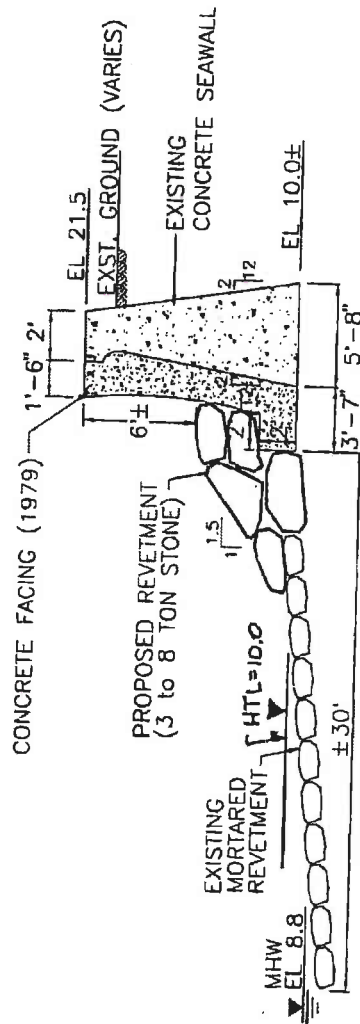
Revised 3/2/98

FIGURE 3



SECTION A--A
 SCALE: 1"=8'

FIGURE 4

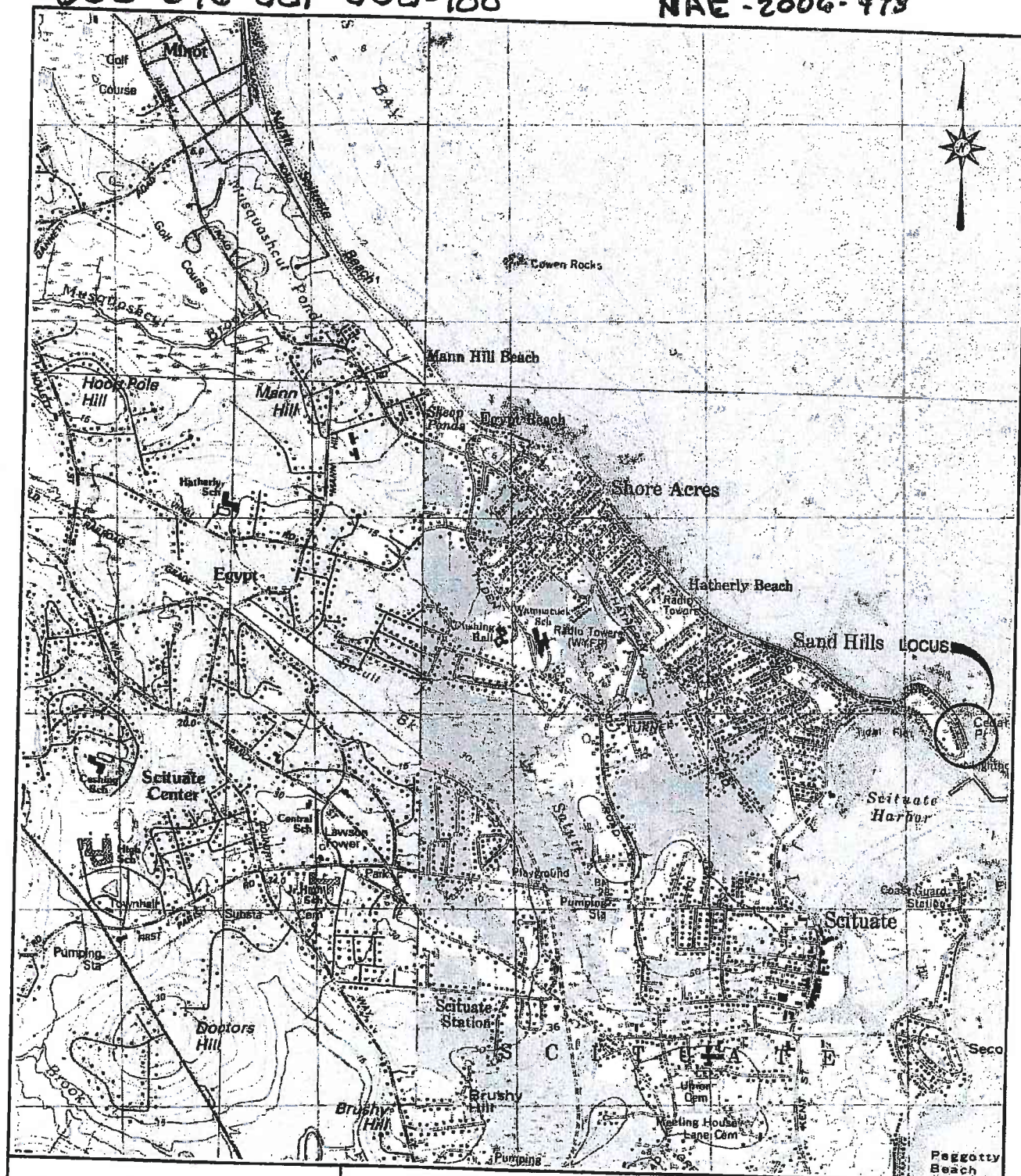


SECTION B-B
SCALE: 1" = 8'

Revised 3/2/98

FIGURE 5

USACE #
NAE-2006-979



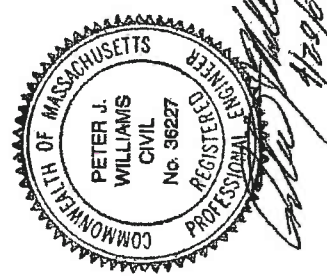
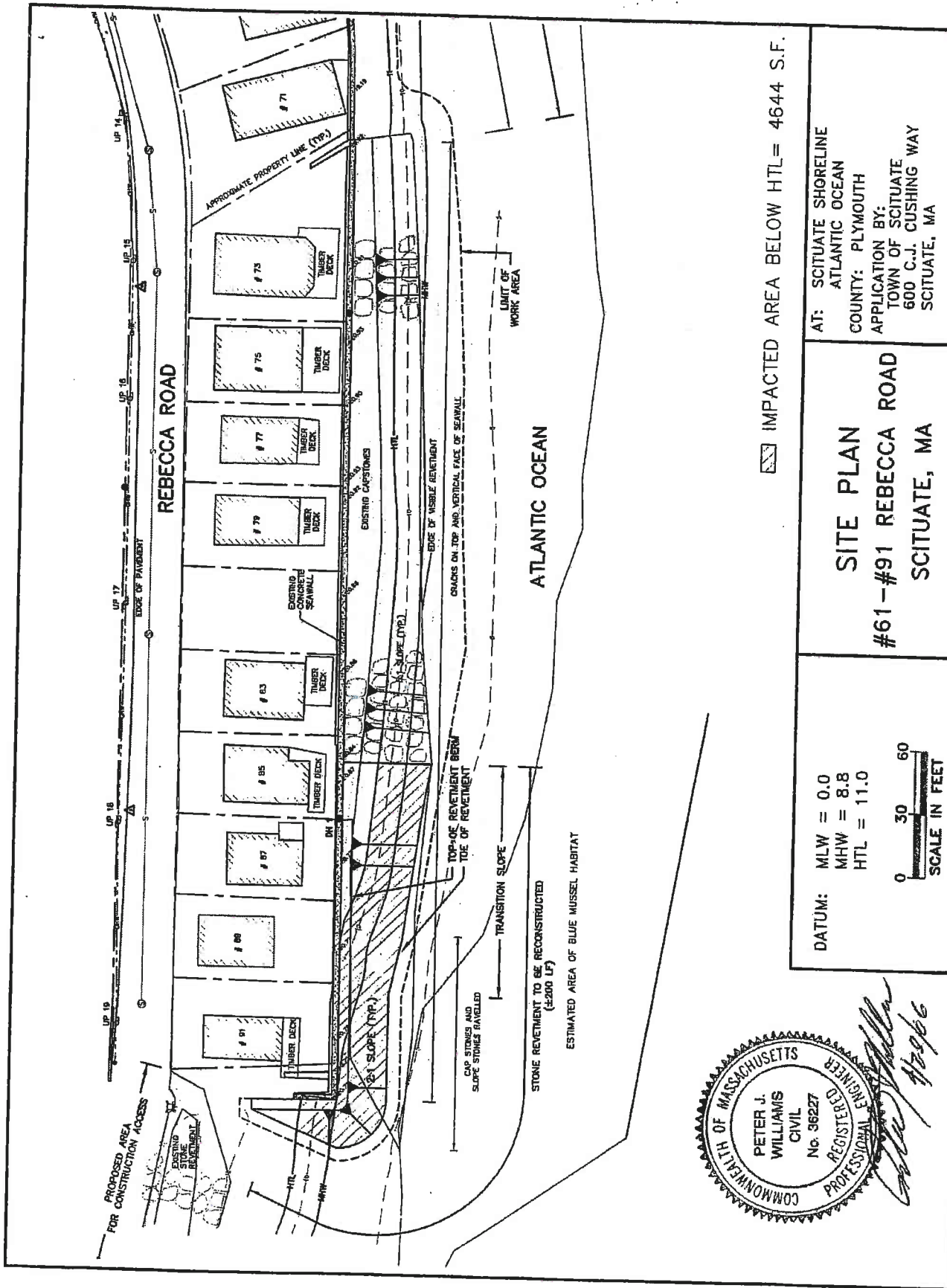
DATUM: MLW = 0.0
MHW = 8.8
HTL = 11.0

LOCUS PLAN
#61-#91 REBECCA ROAD
SCITUATE, MA

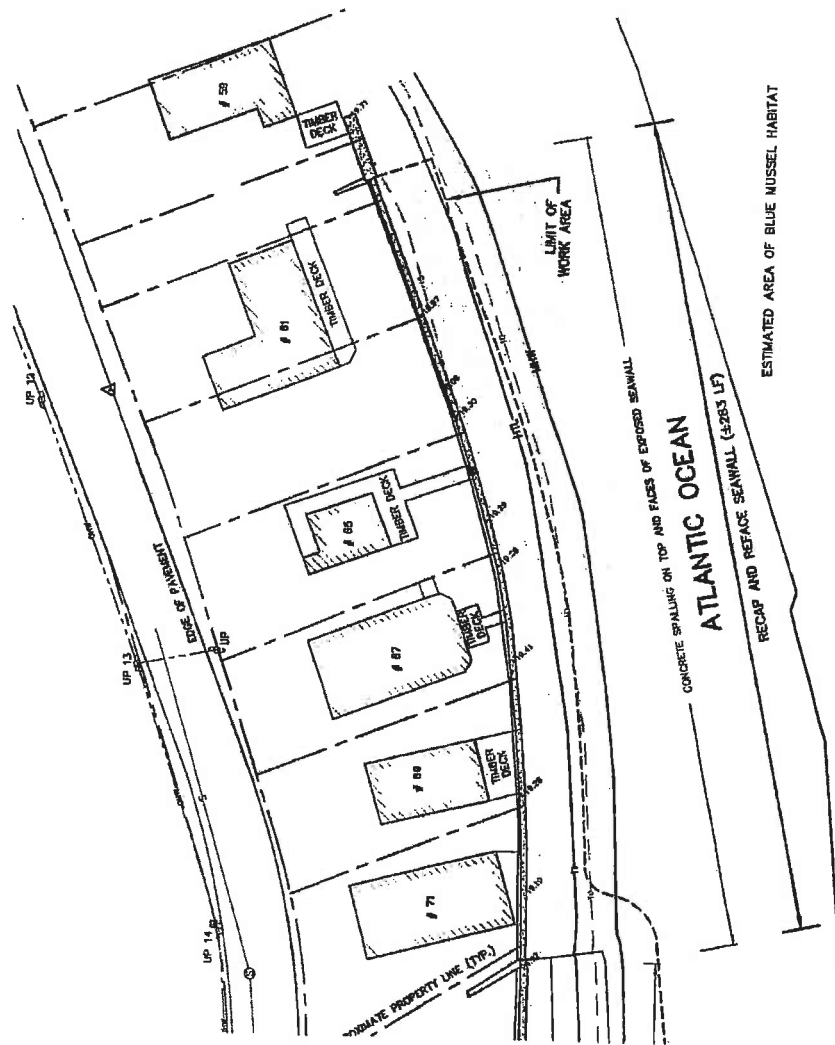
AT: SCITUATE SHORELINE
ATLANTIC OCEAN
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C.J. CUSHING WAY
SCITUATE, MA

APRIL 2006(Rev.)

SHEET 1 OF 5



DATUM: MLW = 0.0 MHW = 8.8 HTL = 11.0		SITE PLAN #61-#91 REBECCA ROAD SCITUATE, MA	AT: SCITUATE SHORELINE ATLANTIC OCEAN COUNTY: PLYMOUTH APPLICATION BY: TOWN OF SCITUATE 600 C.J. CUSHING WAY SCITUATE, MA	APRIL 2006(Rev.) SHEET 2 OF 5
VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS				

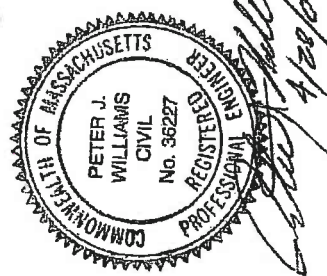


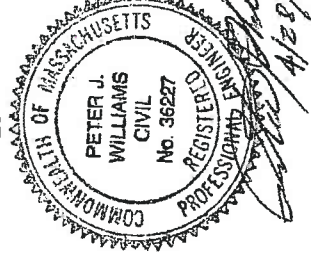
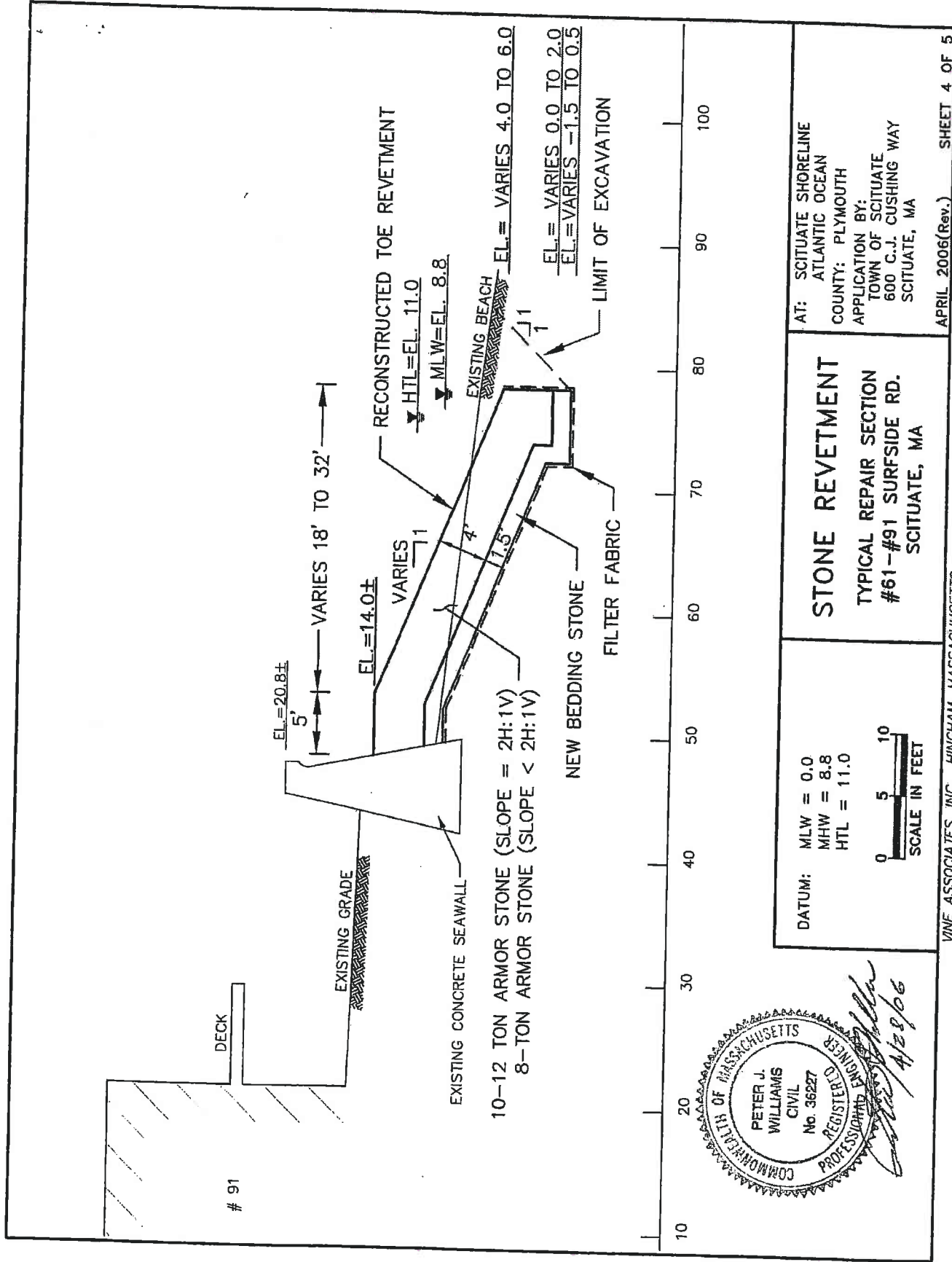
IMPACTED AREA BELOW HTL = 0 S.F.

AT: SCITUATE SHORELINE
ATLANTIC OCEAN
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C.J. CUSHING WAY
SCITUATE, MA

SITE PLAN
#61-#91 SURFSIDE RD.
SCITUATE, MA

DATUM:
MLW = 0.0
MHW = 8.8
HTL = 11.0





DATUM:
 MLW = 0.0
 MHW = 8.8
 HTL = 11.0

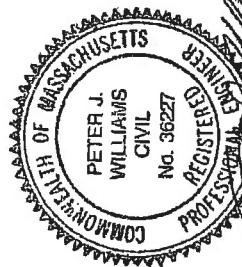
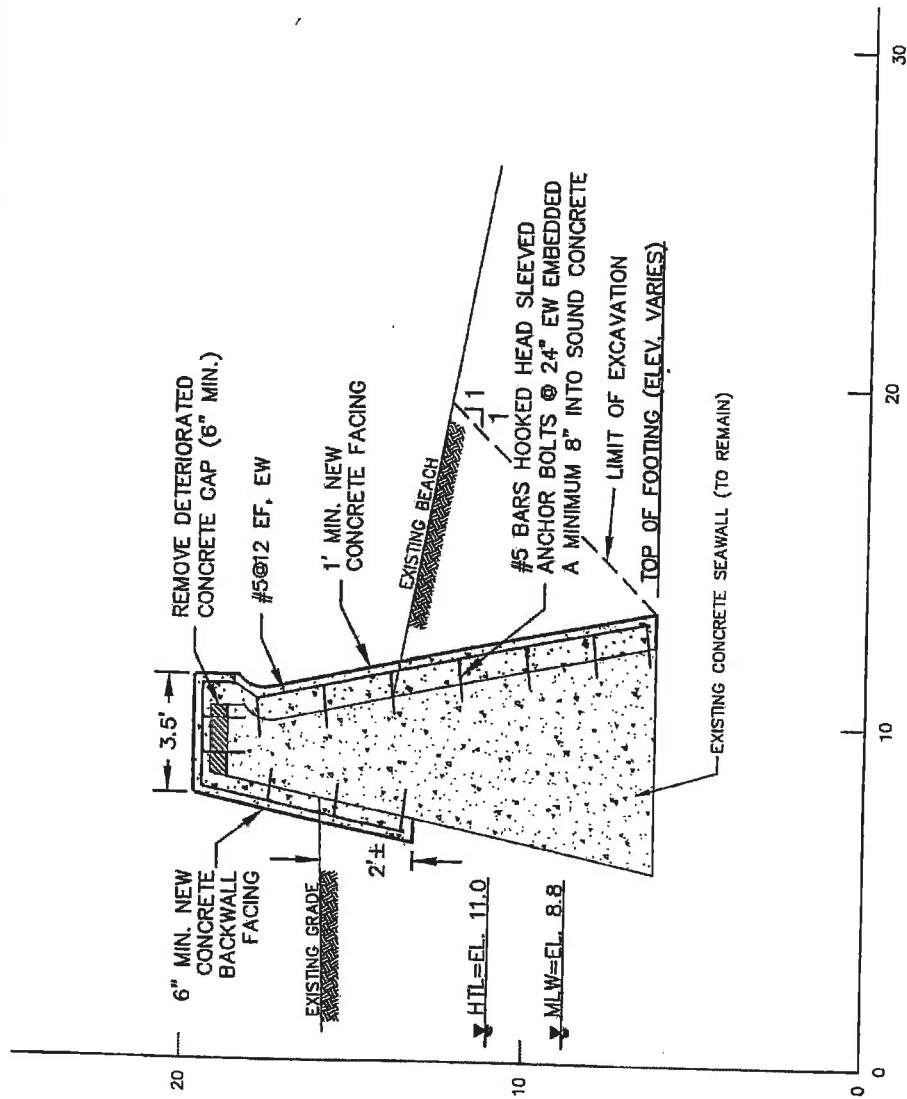
SCALE IN FEET
 0 5 10

STONE REVETMENT
 TYPICAL REPAIR SECTION
 #61-#91 SURFSIDE RD.
 SCITUATE, MA

AT: SCITUATE SHORELINE
 ATLANTIC OCEAN
 COUNTY: PLYMOUTH
 APPLICATION BY:
 TOWN OF SCITUATE
 600 C.J. CUSHING WAY
 SCITUATE, MA

APRIL 2006(Rev.) SHEET 4 OF 5

VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS



DATUM:
MLW = 0.0
MHW = 8.8
HTL = 11.0



CONCRETE SEAWALL TYPICAL REPAIR #61-#91 SURFSIDE RD. SCITUATE, MA

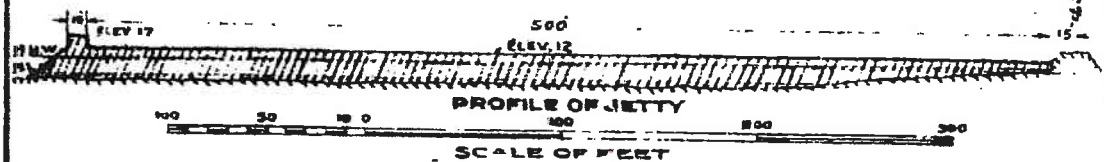
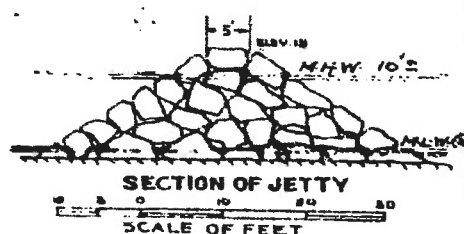
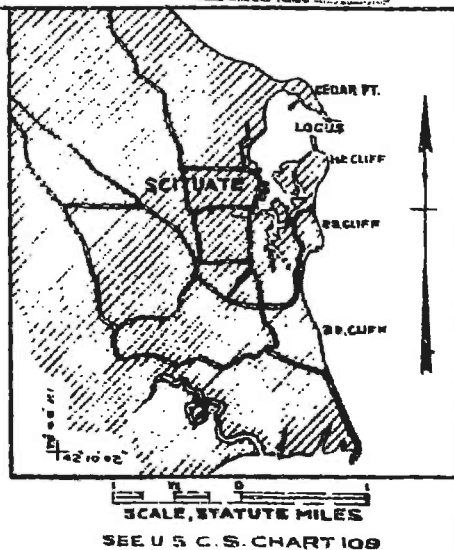
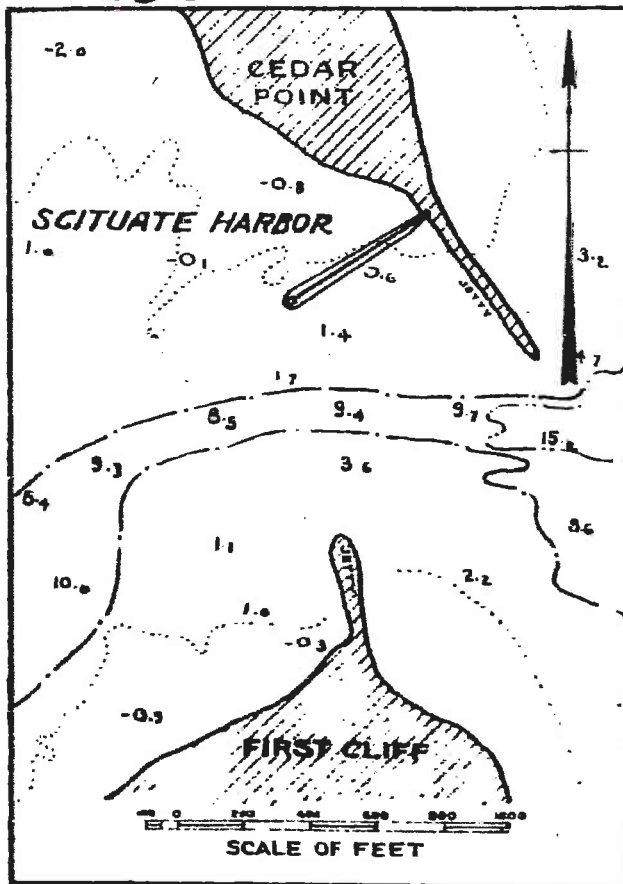
AT: SCITUATE SHORELINE
ATLANTIC OCEAN
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C.J. CUSHING WAY
SCITUATE, MA

APRIL 2006(Rev.) SHEET 5 OF 5

VINE ASSOCIATES, INC. HINGHAM, MASSACHUSETTS

068-46-001-00-300

16 JUN 23
2 1923 Scituate
BOSTON, MASS.



SOUNDINGS ARE IN FEET AND TENTHS AND SHOW DEPTHS BELOW M.L.W. MINUS FIGURES SHOW ELEVATIONS ABOVE M.L.W. PROPOSED WORK SHOWN IN RED

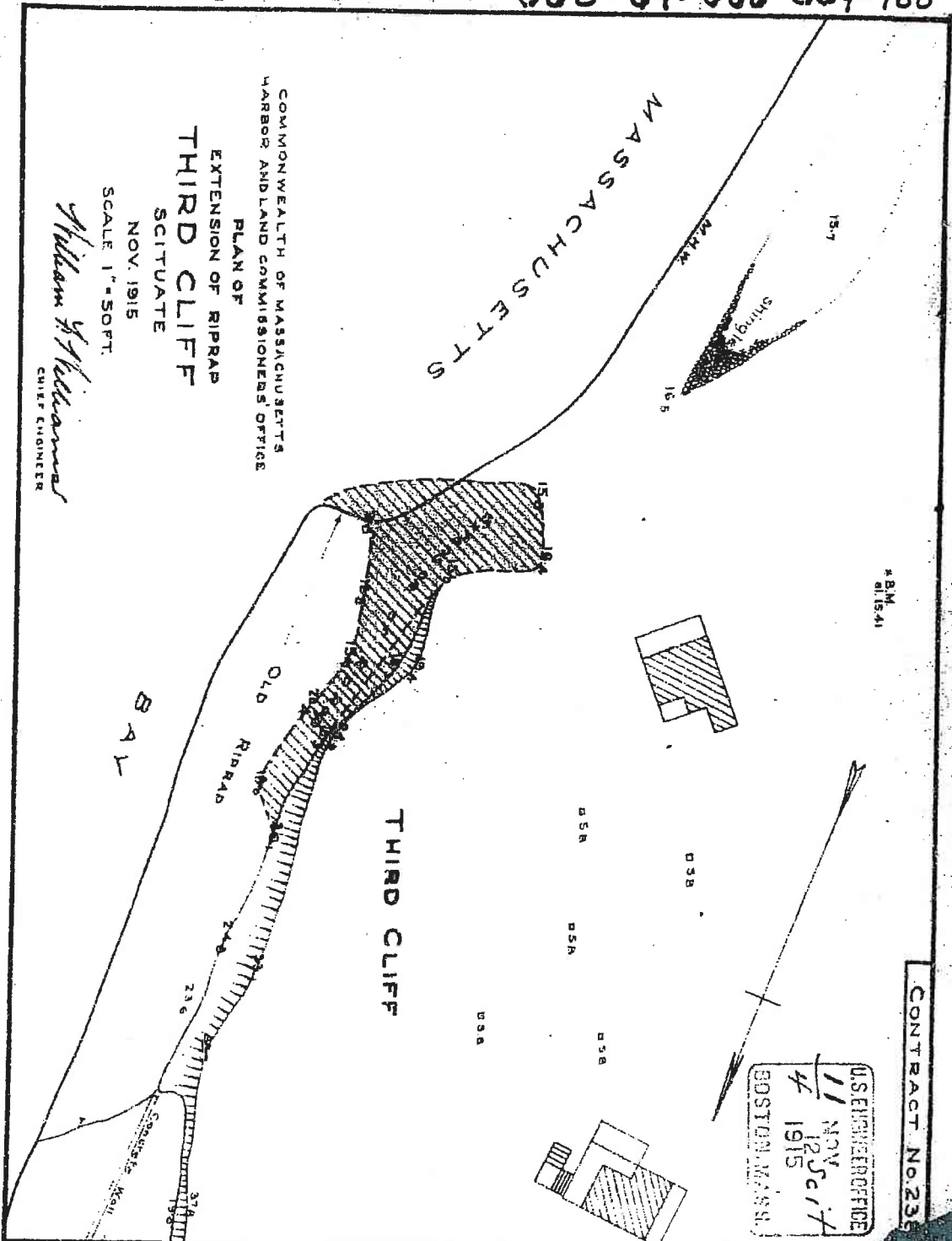
PROPOSED JETTY SCITUATE HARBOR • SCITUATE •

APPLICATION BY
DEPARTMENT OF PUBLIC WORKS
OF MASSACHUSETTS
DIVISION OF WATERWAYS AND PUBLIC LANDS
JUNE 1923

ACC. 0463

336 0518

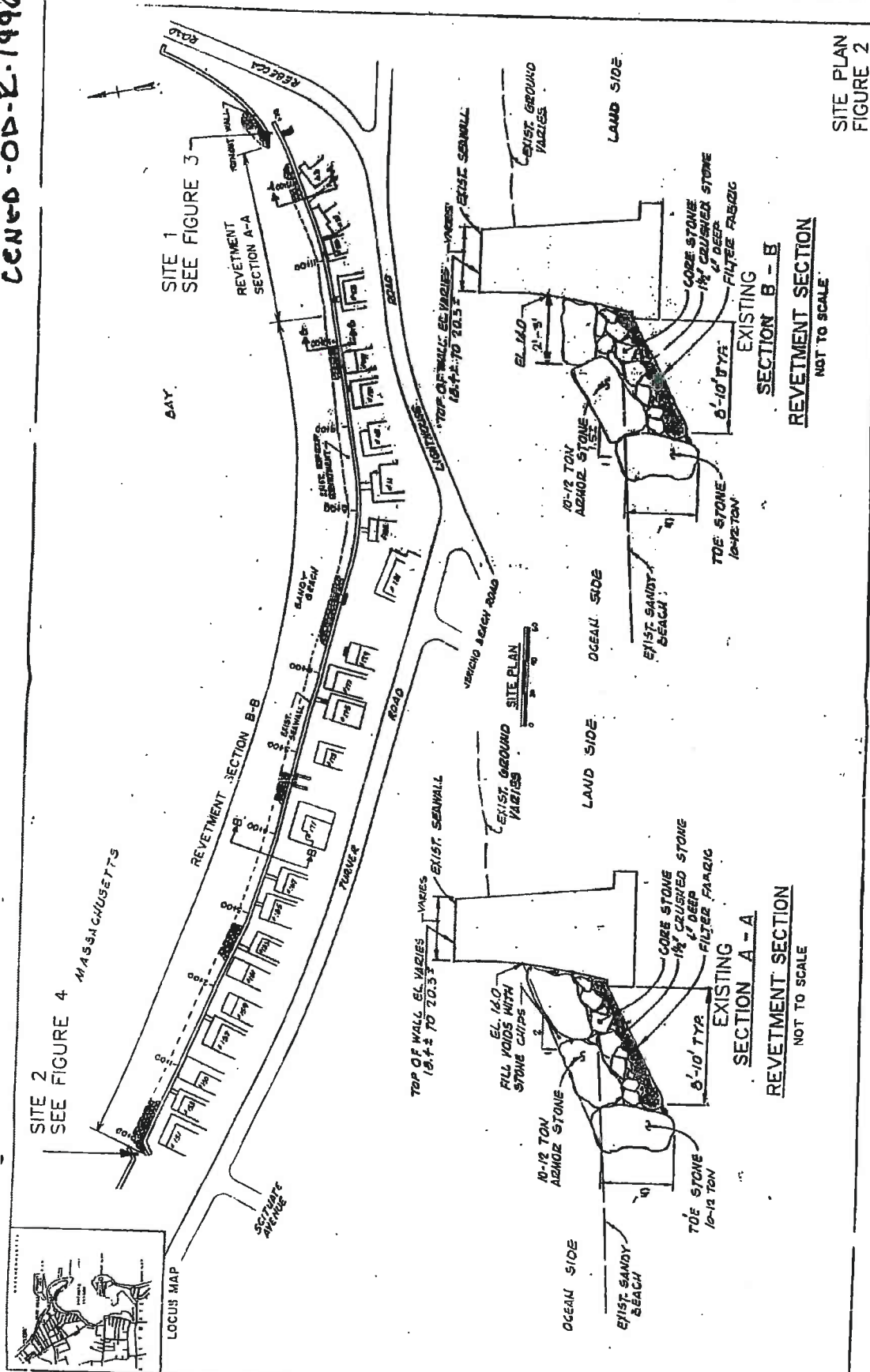
3 3 6 0 6 0 4 068-64-006-004-100

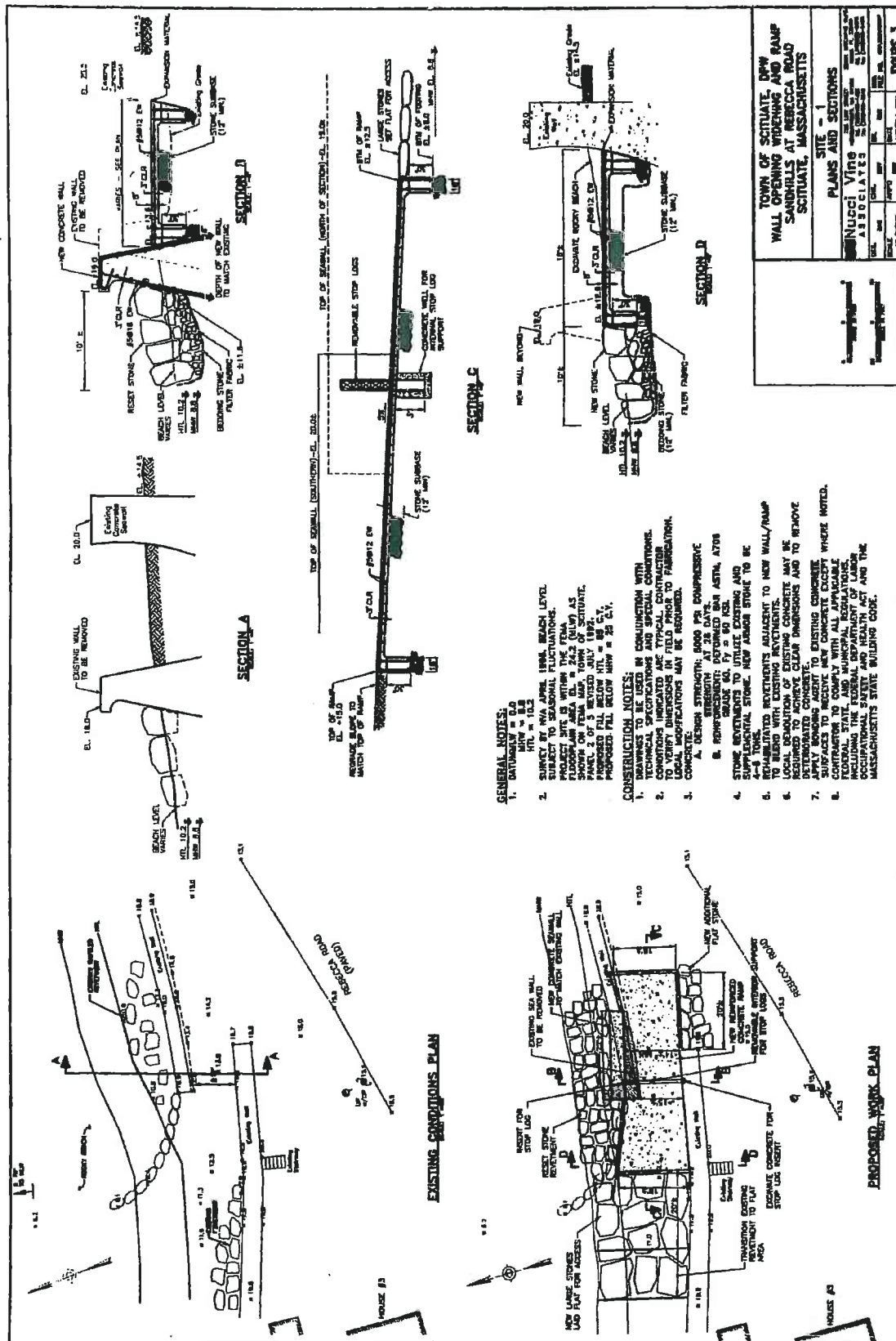


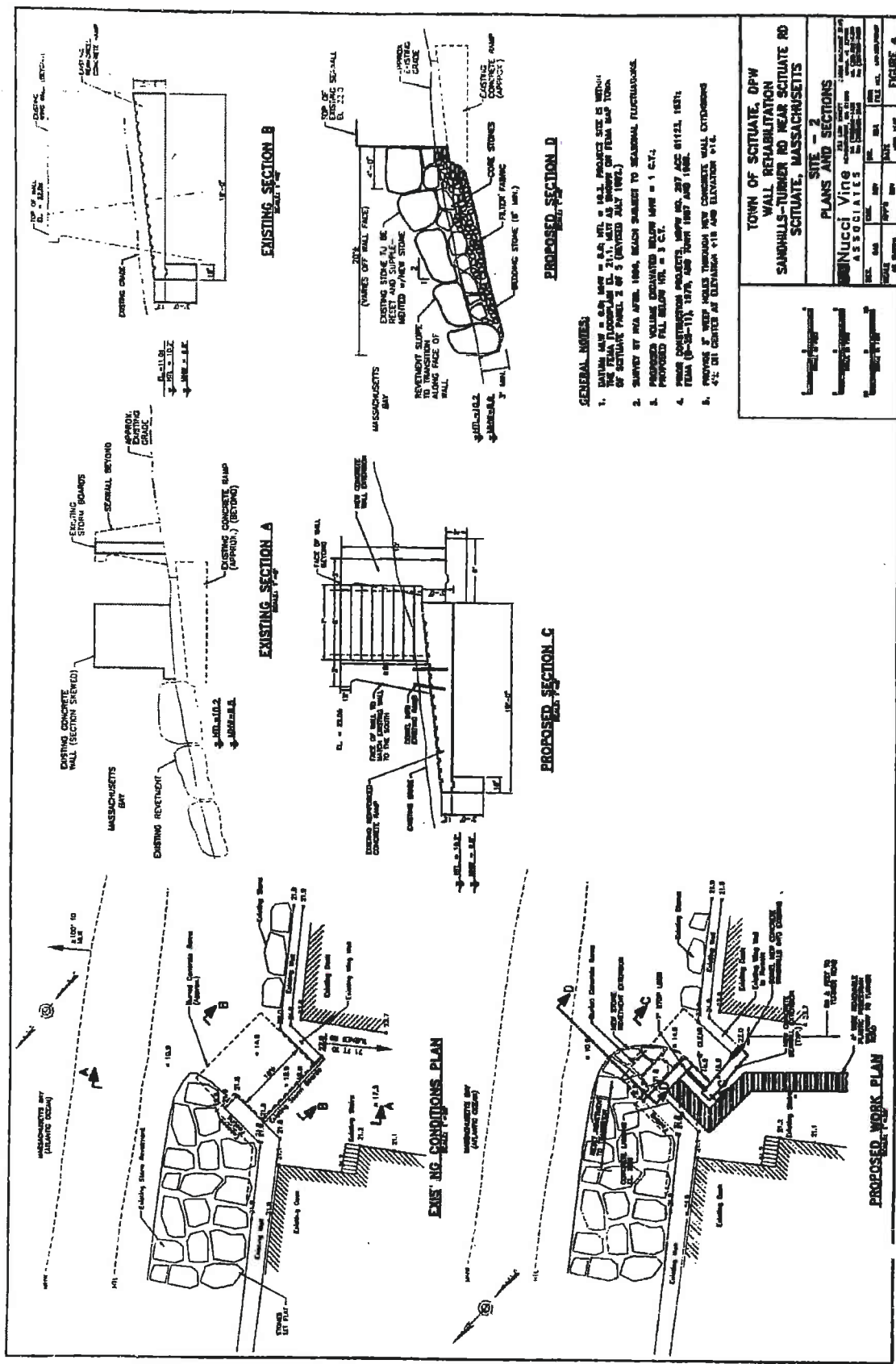
William H. Williams
CHIEF ENGINEER

COMMONWEALTH OF MASSACHUSETTS
HARBOR AND LAND COMMISSIONERS' OFFICE

USACE
CENTO-OP-E-199602282







TOWN OF SCITUATE, DPW WALL REHABILITATION SANDHILLS-TURNER RD NEAR SCITUATE RD SCITUATE, MASSACHUSETTS	
SITE - 2	
PLANS AND SECTIONS	
Nucci Vine ASSOCIATES	
DATE	NOV 1987
BY	WV
CHECKED	WV
SCALE	AS SHOWN
FIGURE	4

068-050-001-001-100

SHEET 1 OF 3

NOTES:

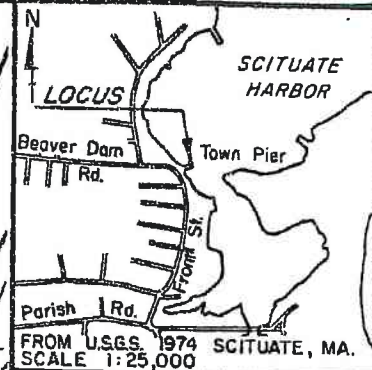
Elevations and soundings are in feet and tenths and refer to the Datum of Mean Low Water.
This plan is prepared for license purposes only, not for construction.
H.T.L. at existing seawall.

Robert J. Morrissey

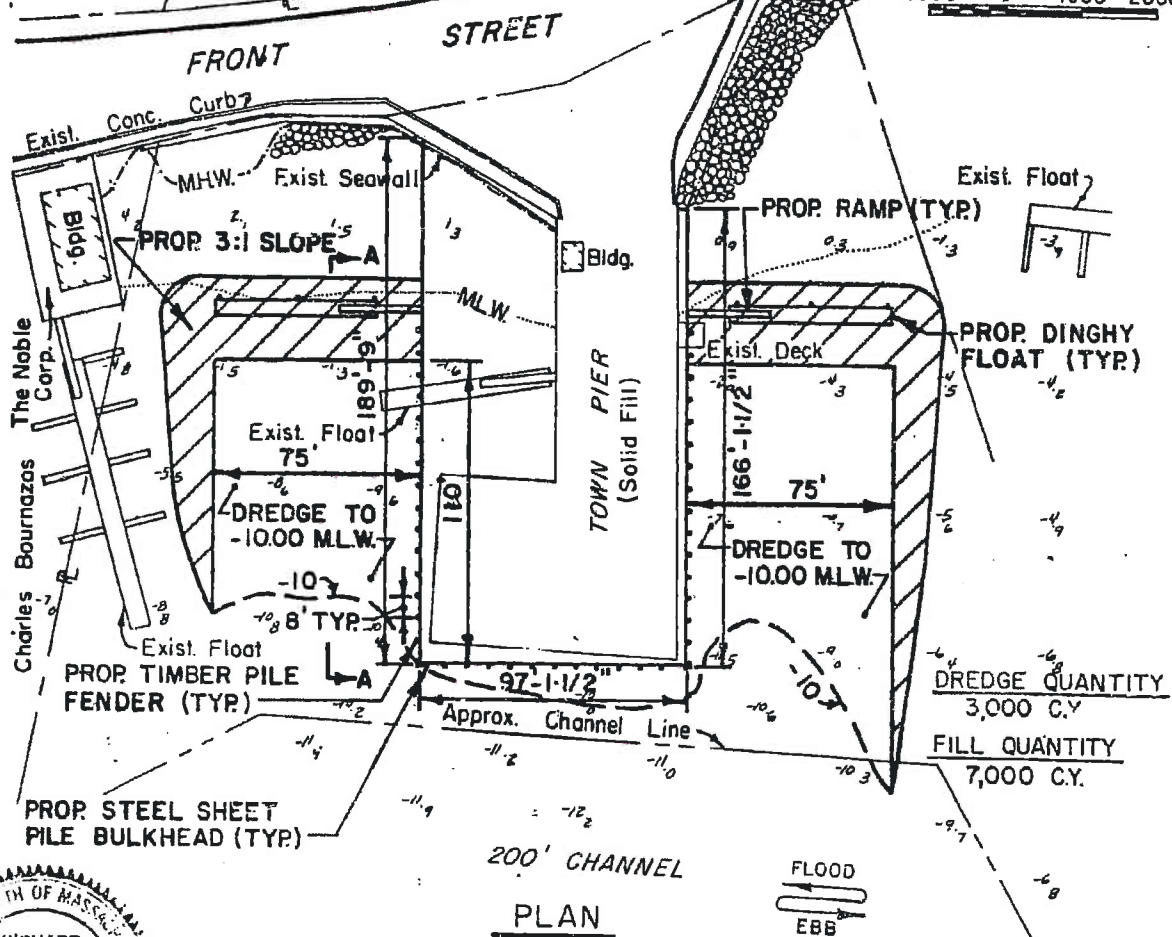
Walter S. & Dorothy M. Foster

J. Edward & Sophia S. Spike

Trustees/Clipper Ship Realty Trust



1000 0 1000 2000

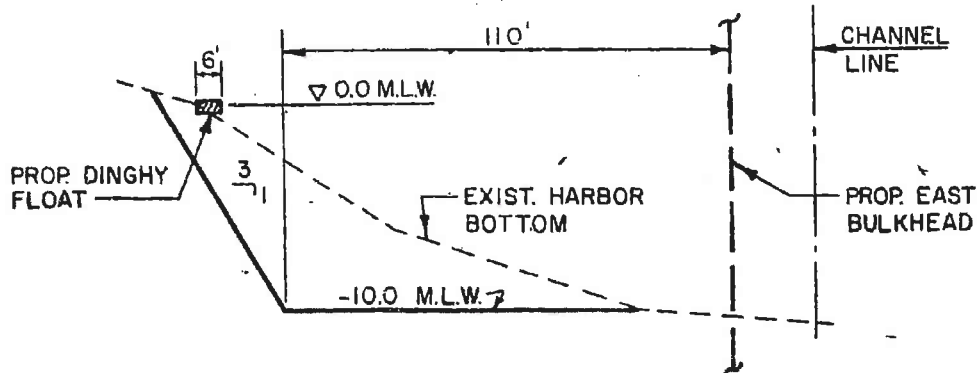


CIVIL ENGR.
Richard L. Silveira
12/13/84

SCALE IN FEET

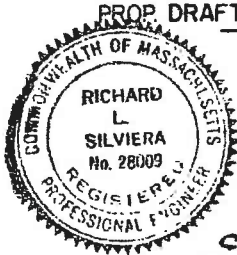
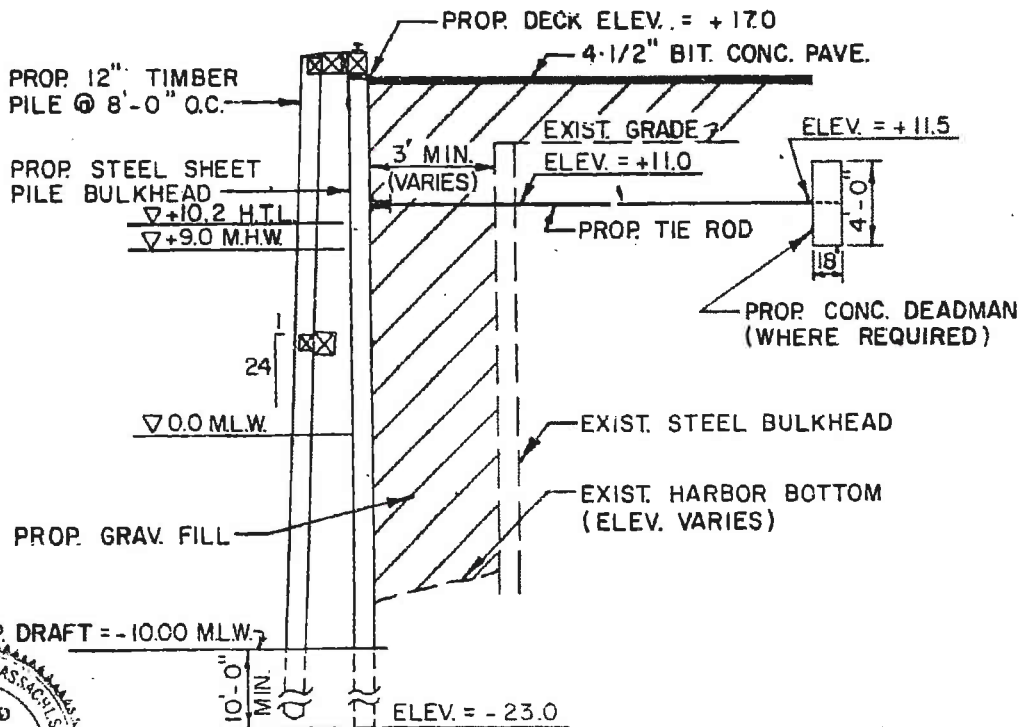
PERMIT REQUEST TO CONSTRUCT STEEL SHEET PILE BULKHEAD, TIMBER PILE FENDER, FLOATS & DREDGE IN SCITUATE HARBOR
COUNTY OF PLYMOUTH STATE OF MA.
APPLICATION BY THE TOWN OF SCITUATE
SHEET 1 OF 3 DATE: DEC. 1984

TIBBETTS ENGINEERING CORP. NEW BEDFORD, MA.



SECTION A-A - DREDGE AREA

SCALE: 1" = 40' HORIZ.
1" = 8' VERT



PROPOSED BULKHEAD TYPICAL SECTION

SCALE: 1/8" = 1'-0"

CIVIL ENGR.
Richard L. Silveira
12/13/84

PERMIT REQUEST TO CONSTRUCT STEEL SHEET PILE BULKHEAD, TIMBER PILE FENDER, FLOATS & DREDGE IN SCITUATE HARBOR
COUNTY OF PLYMOUTH STATE OF MA.
APPLICATION BY THE TOWN OF SCITUATE
SHEET 2 OF 3 DATE: DEC. 1984

DREDGE QUANTITY

2,662 C.Y.

1.65 ACRE FT.

DREDGE TO 0.00 M.L.W.

TOP OF SLOPE

MLW

N

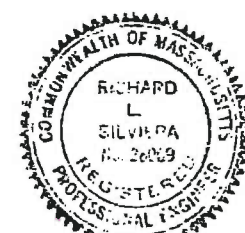
(SEE SHEET 1)

Exist. Town Pier

MLW

PLAN

100 50 0 100
SCALE IN FEET



CIVIL ENGINEER
Richard L. Silveira
12/13/84

CHANNEL LINE

EXIST. BOT.

DREDGE TO 0.00 M.L.W.

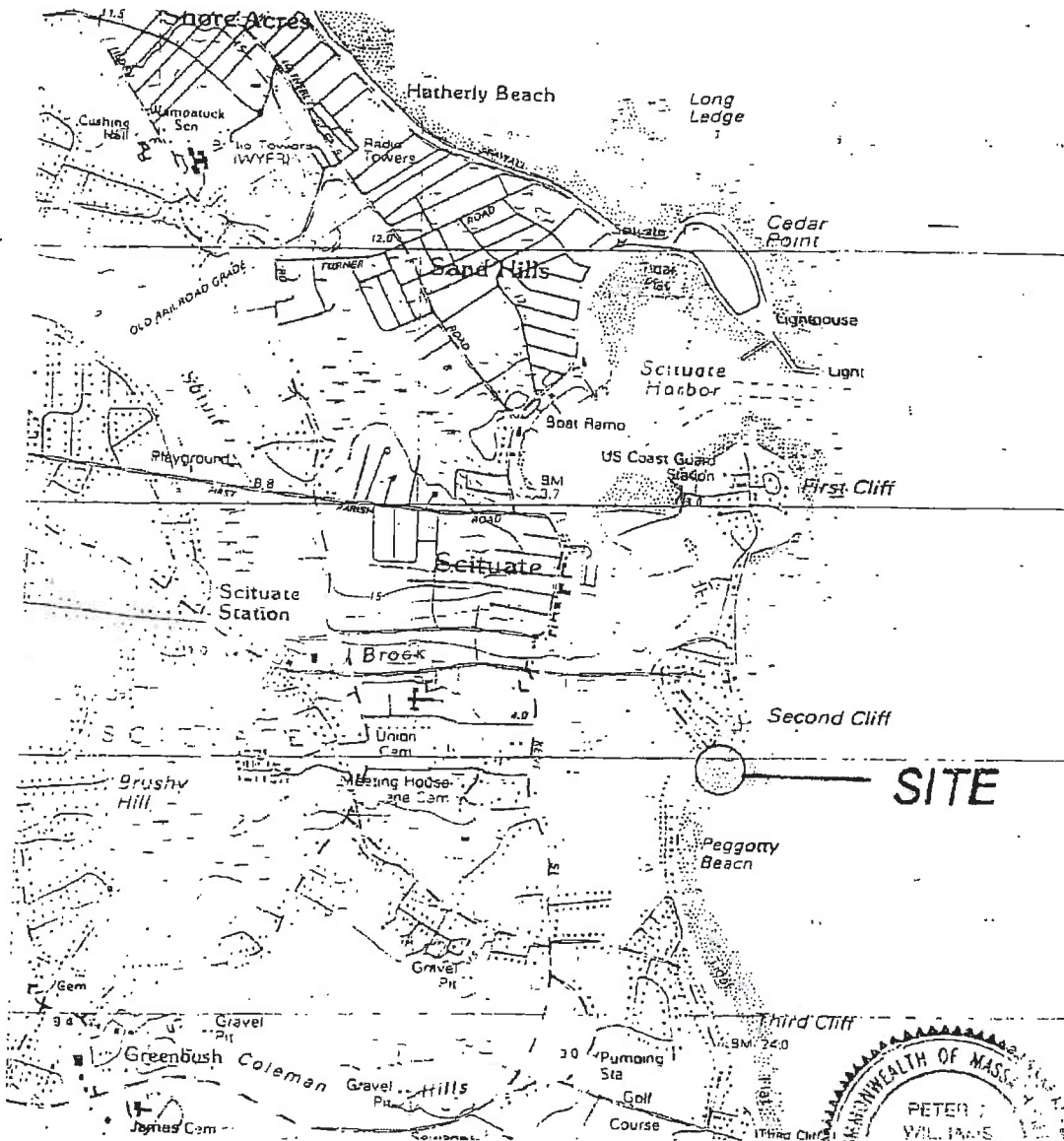
TYPICAL SECTION THRU DREDGE AREA

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

PERMIT REQUEST TO CONSTRUCT STEEL SHEET PILE
BULKHEAD, TIMBER PILE FENDER, FLOATS & DREDGE
IN SCITUATE HARBOR
COUNTY OF PLYMOUTH STATE OF MA.
APPLICATION BY THE TOWN OF SCITUATE
SHEET 3 OF 3 DATE: DEC. 1984

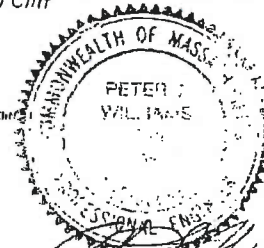
D68-055-008-006-100

USACE#
CENAE-R-200002970



200002970

SCALE: 1" = 2083'



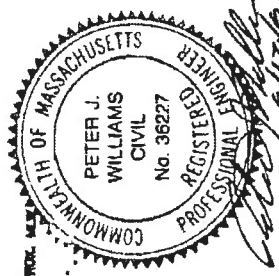
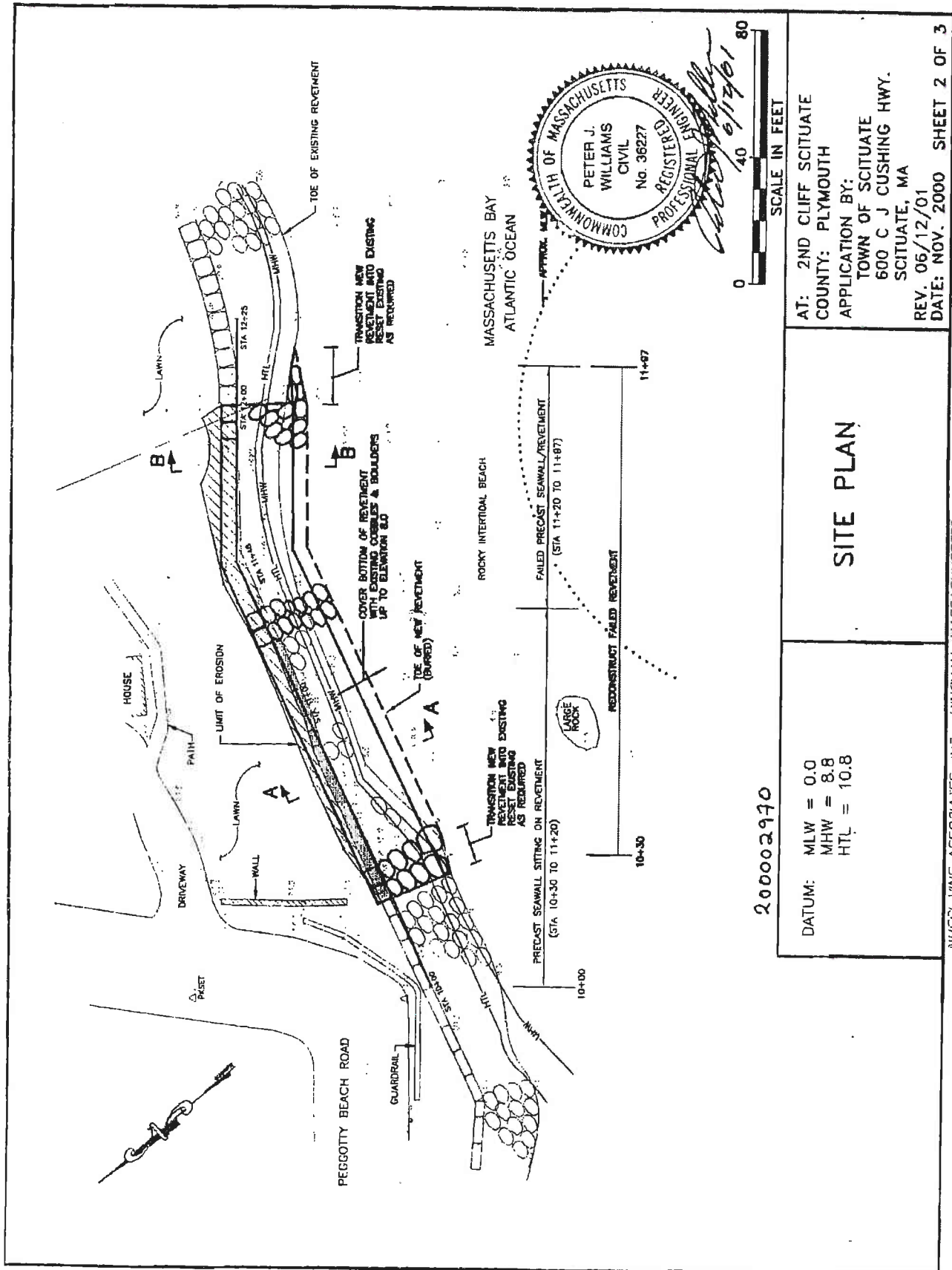
DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

LOCUS PLAN 2ND CLIFF SEAWALL REPAIR PROJECT

AT: 2ND CLIFF SCITUATE
COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA

REVISED 06/12/01
DATE: NOV. 2000 SHEET 1 OF 3

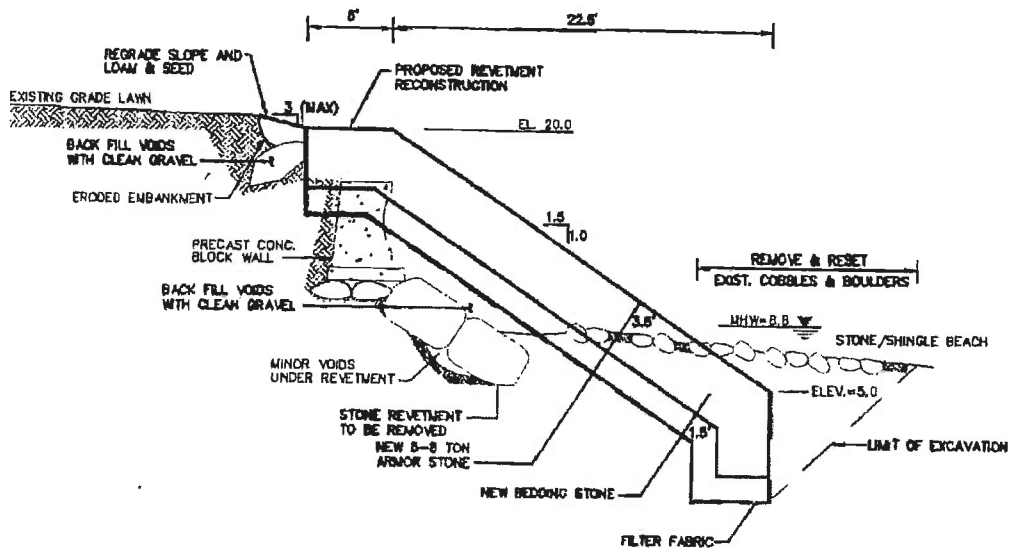


200002970

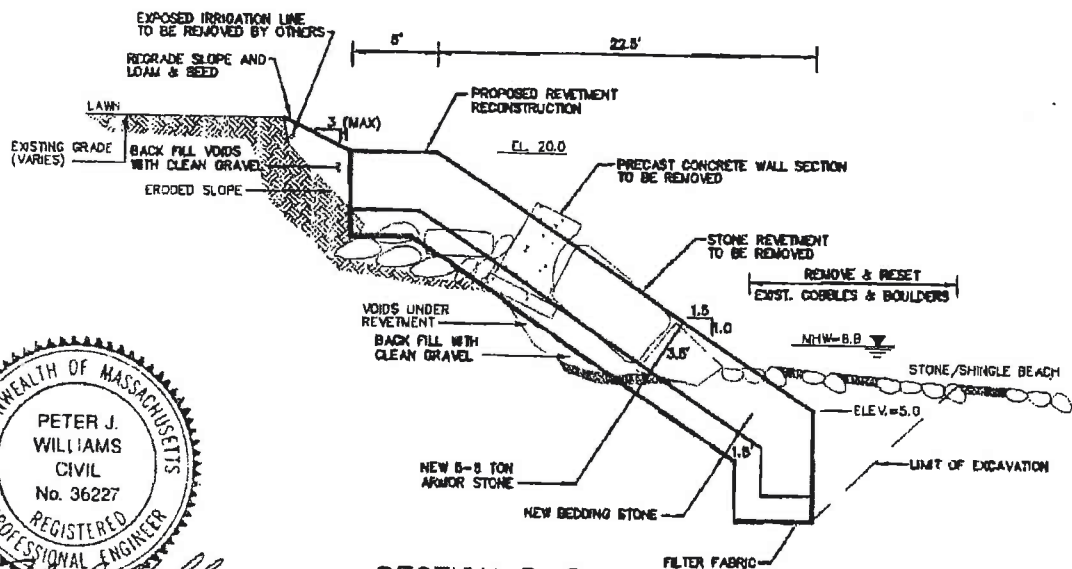
DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.8

SITE PLAN

AT: 2ND CLIFF SCITUATE
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA
REV. 06/12/01
DATE: NOV. 2000 SHEET 2 OF 3



SECTION A-A
STA. 10+30 TO 11+20
SCALE: 1"=10'



SECTION B-B
STA. 11+20 TO 11+97
SCALE: 1"=10'

0 10 20
SCALE IN FEET

DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

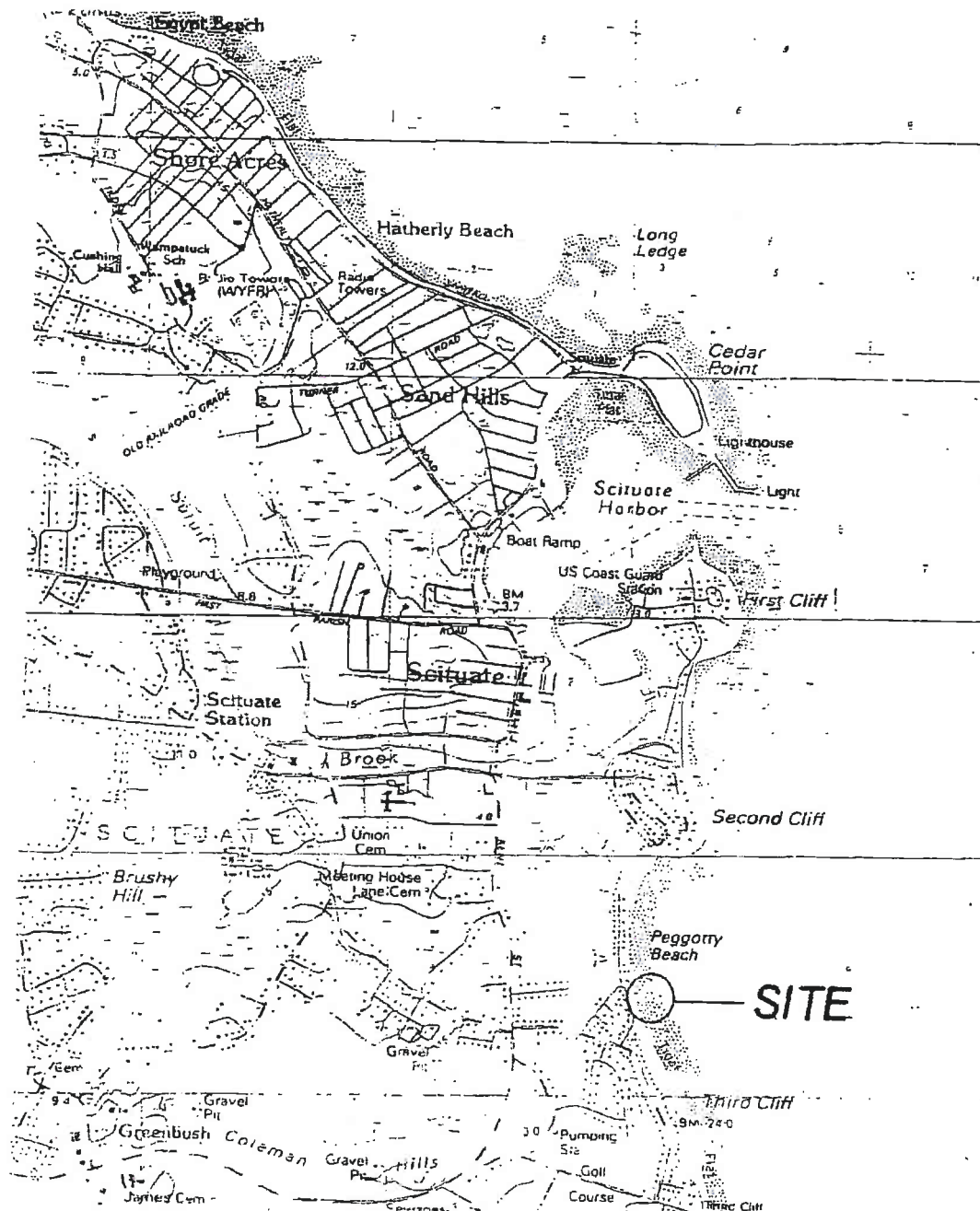
TYPICAL SECTIONS

AT: 2ND CLIFF SCITUATE
COUNTY: PLYMOUTH
APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA

REV. 06/12/01
DATE: NOV. 2000 SHEET 3 OF 3

068-060-001-051-100

USACE #
CENAE-CO-2.
260003017



SCALE: 1" = 2083'

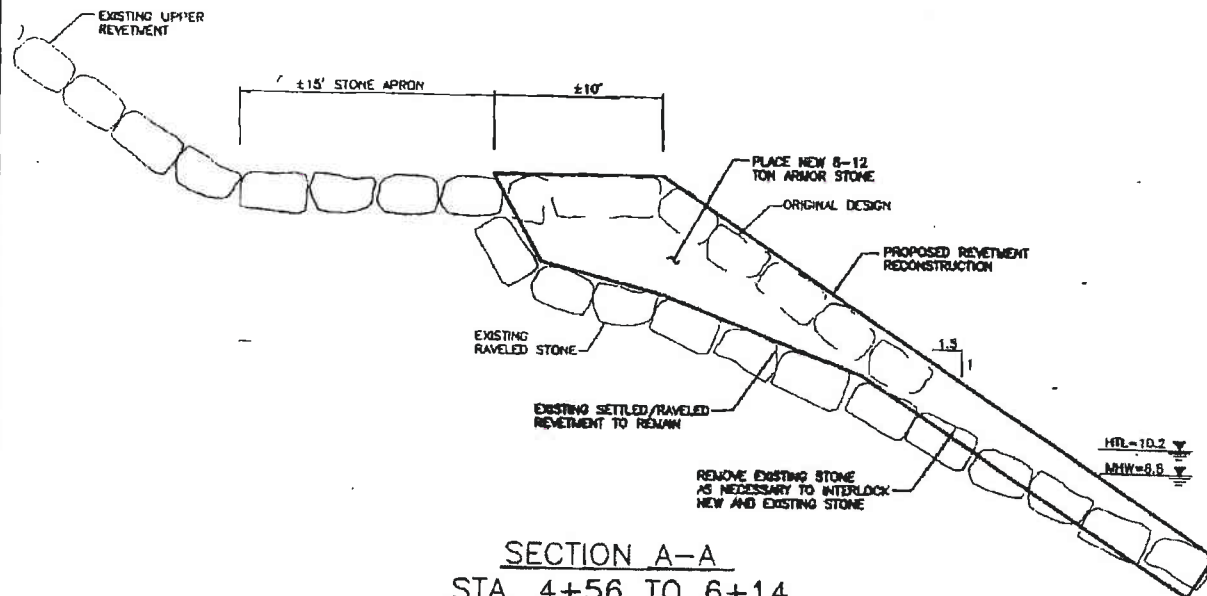
DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

LOCUS PLAN THIRD CLIFF SEAWALL REPAIRS

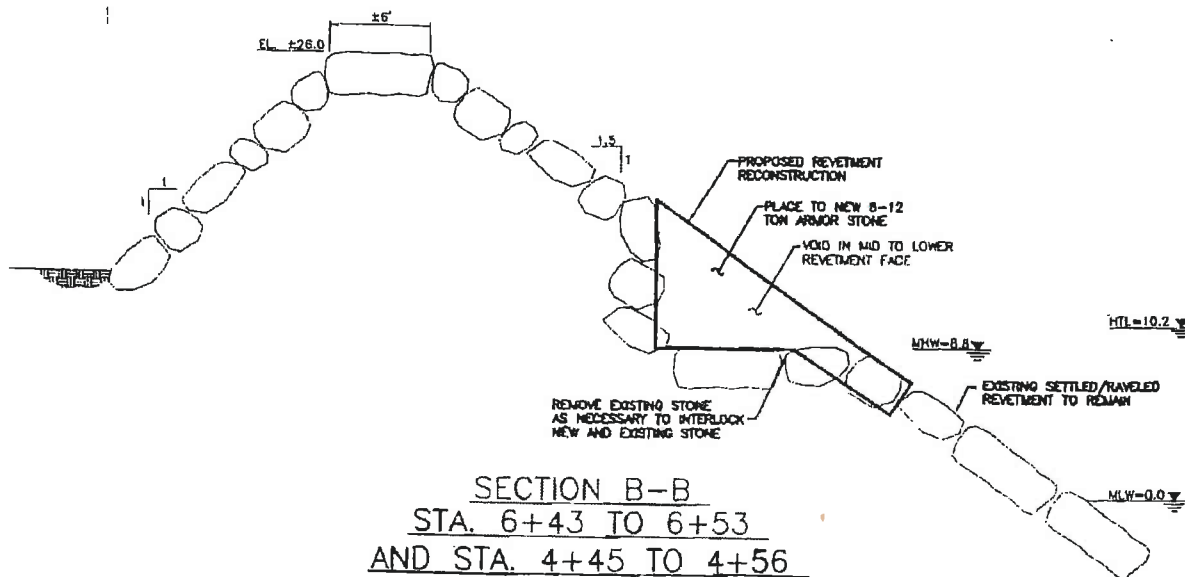
AT: THIRD CLIFF SCITUATE
COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF SCITUATE,
600 C J CUSHING HWY.
SCITUATE, MA

DATE: NOV. 2000 SHEET 1 OF 4



SECTION A-A
STA. 4+56 TO 6+14
SCALE: 1"=10'



SECTION B-B
STA. 6+43 TO 6+53
AND STA. 4+45 TO 4+56
SCALE: 1"=10'

DATUM: MLW = 0.0
MHW = 8.8
HTL = 10.2

0 10 20
SCALE IN FEET

SECTION A-A AND SECTION B-B

AT: THIRD CLIFF SCITUATE
COUNTY: PLYMOUTH

APPLICATION BY:
TOWN OF SCITUATE
600 C J CUSHING HWY.
SCITUATE, MA

DATE: NOV. 2000 SHEET 3 OF 4