



DEPARTMENT OF THE ARMY  
US ARMY CORPS OF ENGINEERS  
NEW ENGLAND DISTRICT  
696 VIRGINIA ROAD  
CONCORD MA 01742-2751

September 12, 2025

Regulatory Division  
New England District  
Connecticut & Rhode Island Section  
File Number: NAE-2025-01683

Mason's Island Property Owners Association  
c/o Bill Pryor, President  
PO Box 344  
Mystic, Connecticut 06355  
[billpryor@comcast.net](mailto:billpryor@comcast.net)

Dear Applicant:

The US Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on July 17, 2025, the file number NAE-2025-01683. The project is identified as the Mason's Island Property Owners Association. A review of the information and drawings provided shows the applicant is proposing the installation of approximately 2,460 square feet of submerged stone sills and deflection boulders along approximately 150-linear feet of coastline. The applicant will implement industry-standard Best Management Practices during all activities to minimize turbidity. The project site is located on Mason's Island within Chippechaug Cove in Stonington, Connecticut. The approximate center coordinates of the project area are 41.3322°, -71.963201°. The work is shown on the enclosed plans titled "MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT", on 12 pages, and dated "JULY, 2025".

Based on the information that you have provided, we verify that the activity is authorized under Regional General Permit #9 New shoreline and bank stabilization projects and Living Shorelines of the enclosed December 15, 2021, federal permits known as the Department of the Army Regional General Permits for the State of Connecticut (GPs). The GPs are also available at <https://www.nae.usace.army.mil/Missions/Regulatory/State-General-Permits/Connecticut-General-Permit>.

Please review the enclosed GPs carefully, in particular the general conditions beginning on page 48, and ensure that you and all personnel performing work authorized by the GPs are fully aware of and comply with its terms and conditions. A copy of the GPs and this verification letter shall be available at the work site as required by General Condition 28. You must perform this work in accordance with the following special condition(s):

1. Except where stated otherwise, reports, drawings, correspondence and any other submittals required by this permit shall be marked with the words "Permit No. NAE-2025-01683" and submitted via: a) Regulatory Division, Corps of Engineers, New England District, 696 Virginia Road, Concord, MA 01742-2751; b) EMAIL: [cenae-r-ct@usace.army.mil](mailto:cenae-r-ct@usace.army.mil); or c) FAX: (978) 318-8303. Documents which are not marked and addressed in this manner may not reach their intended destination and do not comply with the requirements of this permit. Requirements for immediate notification to the Corps of Engineers shall be done by telephone to (978) 318-8338.
2. All construction shall be completed in accordance with the limits of construction and construction sequences detailed on the enclosed plan drawings, titled "MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT", on 12 pages, and dated "JULY, 2025". If you change the plans or construction methods for work within or adjacent to Chippechaug Cove, please contact us immediately to discuss modification of this authorization. The Corps of Engineers must approve any changes before you undertake them.
3. You must maintain the activity herein in good condition and in conformance with the terms and conditions of this authorization. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with a general condition of these GPs. Should you wish to cease to maintain the authorized activities, or should you desire to abandon it without a good faith transfer, you must obtain a modification of this authorization from this office, which may require restoration of the area.
4. In-water work shall be conducted during the work window of October 1<sup>st</sup> to June 30<sup>th</sup>. The term "in-water work" does not include conditions where the work site is "in-the-dry" (e.g. intertidal areas exposed at low tide).
5. You shall complete and return the enclosed Work-Start Notification Form to this office at least two weeks prior to the anticipated construction start date.
6. Seed shellfish, spatted-shell, or cultch shall not be deposited in tidal special aquatic sites to avoid conversion of habitats tide.
7. No ancillary work shall occur in tidal special aquatic sites or areas containing shellfish other than proactive habitat restoration or enhancement of special aquatic sites.

8. Only native species of vegetation shall be planted and invasive species shall be controlled within the restoration site.
9. You shall complete and return the enclosed Compliance Certification Form to this office upon completion of the activity.

This authorization expires on December 15, 2026. You must commence or have under contract to commence the work authorized herein by December 15, 2026, and complete the work by December 15, 2027. If not, you must contact this office to determine the need for further authorization and we recommend you contact us *before* the work authorized herein expires. Please contact us immediately if you change the plans or construction methods for work within our jurisdiction as we must approve any changes before you undertake them. Performing work within our jurisdiction that is not specifically authorized by this determination or failing to comply with the special condition(s) provided above or all of the terms and conditions of the GPs may subject you to the enforcement provisions of our regulations.

This authorization does not obviate the need to obtain other federal, state, or local authorizations required by law. Applicants are responsible for applying for and obtaining any other approvals.

We continually strive to improve our customer service. To better serve you, we would appreciate your completing our Customer Service Survey located at <https://regulatory.ops.usace.army.mil/customer-service-survey/>

Please contact Christopher Veinotte, Senior Project Manager at 978-318-8495, or by email at [christopher.l.veinotte@usace.army.mil](mailto:christopher.l.veinotte@usace.army.mil), if you have any questions.

Sincerely,



Kelly Egan  
Interim Chief, Connecticut & Rhode Island  
Section

Enclosures

cc:

Darcy Winther, CT DEEP, [darcy.winther@ct.gov](mailto:darcy.winther@ct.gov)

Jacquelyn Claver, GZA GeoEnvironmental, Inc., [jacquelyn.claver@gza.com](mailto:jacquelyn.claver@gza.com)

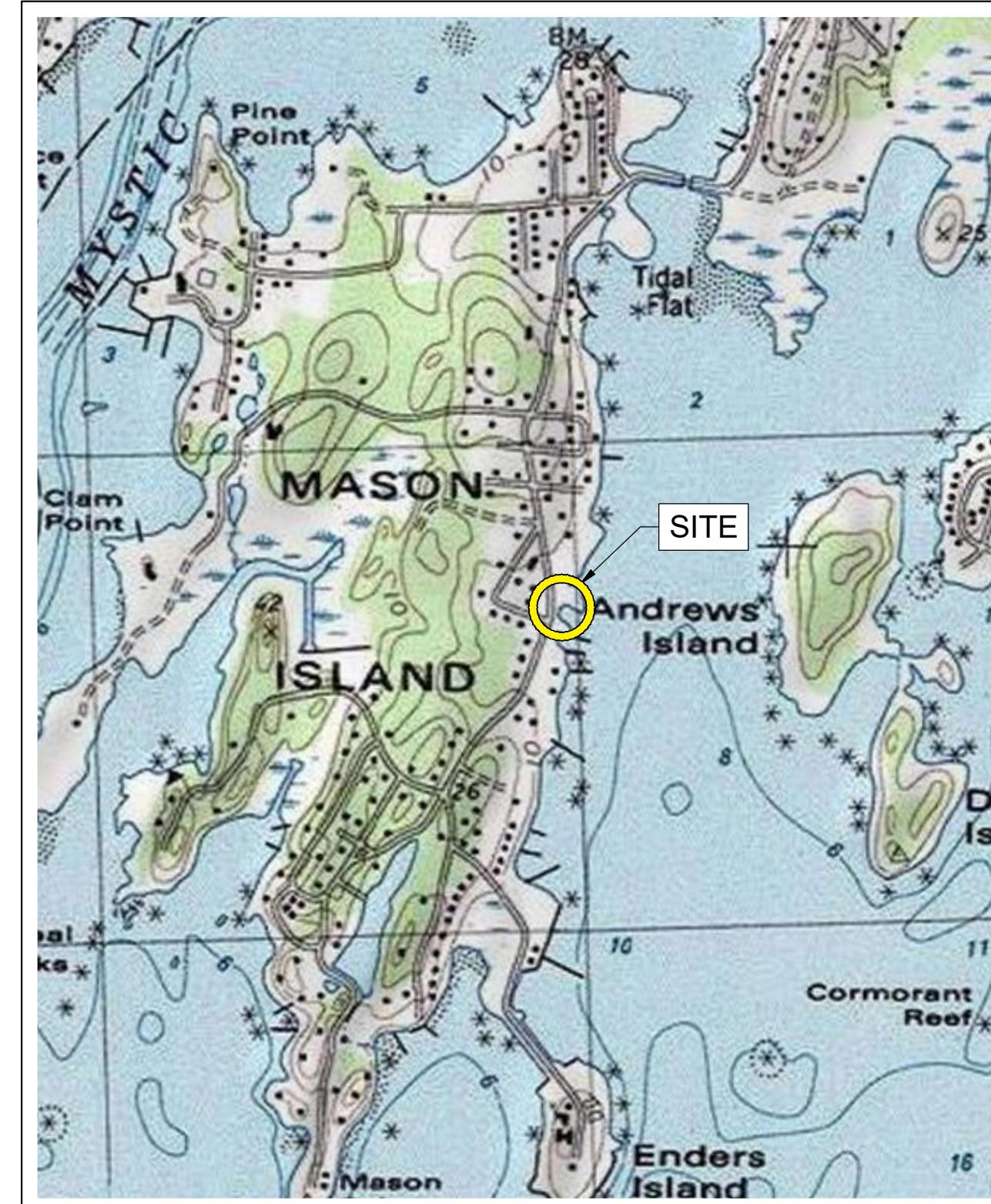
# MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT

## OWNER

MASON'S ISLAND PROPERTY  
OWNERS ASSOCIATION (MIPOA)  
P.O. BOX 344  
MYSTIC, CT 06355

# ENGINEER

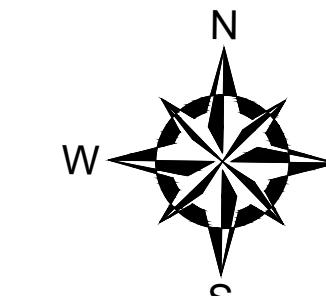
GZA GEOENVIRONMENTAL, INC.  
95 GLASTONBURY BOULEVARD, 3rd FLOOR  
GLASTONBURY, CT 06033



## PROJECT LOCUS MAP

SOURCE: USGS TOPOGRAPHIC QUADRANGLES  
SCANNED BY MASSGIS AND DISTRIBUTED IN JUNE 2001

A horizontal scale bar with tick marks at 0, 500, 1000, and 2000. Below the bar, the text "SCALE IN FEET" is centered.

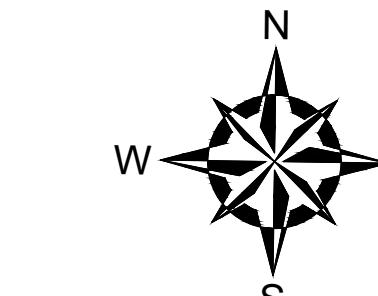


# PROJECT PHOTOGRAPHIC LOCUS MAP

SOURCE: BING

0      500      1000

SCALE IN FEET



# STONINGTON CONNECTICUT

NOTE: ALL SCALES APPLICABLE FOR 34" X 22" DRAWINGS. USE SCALE BAR FOR ALTERNATE SIZE DRAWINGS.

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## **TITLE PAGE, SITE LOCUS AND INDEX OF DRAWINGS**

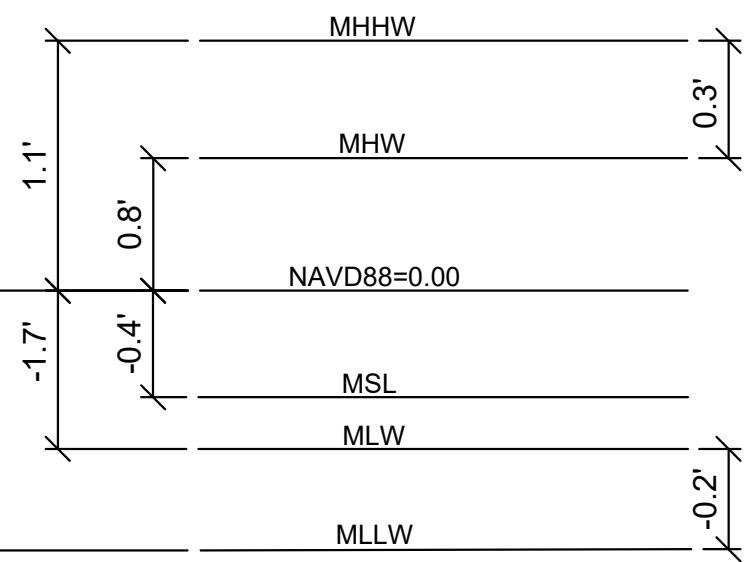
PREPARED BY:	 <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists	PREPARED FOR: <b>MASON'S ISLAND FIRE DISTRICT</b> P.O. BOX 373
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www.gza.com		Mystic, CT 06355	
PROJ MGR:	JRC	REVIEWED BY:	SLL
DESIGNED BY:	DCS	DRAWN BY:	BW/EDM
DATE: JULY, 2025	PROJECT NO. 01.0175256.10	CHECKED BY:	MT
SCALE: AS NOTED		FIGURE G0.01	
REVISION NO.			

© 2016 - GZA GeoEnvironmental, Inc. GZA- \\Gzanor\\jobs\\170,000-179,999\\175256\\175256 - Mason's Island Shoreline Protection\_Alt-A-REVISED 11-18-24.dwg [001] May 07, 2025 - 11:57am edward.mullin

## EXISTING CONDITIONS PLAN BASE MAP DEVELOPED FROM THE FOLLOWING:

- EXISTING TOPOGRAPHIC CONTOURS WERE DEVELOPED BASED ON HURRICANE SANDY REGION - TOPOBATHYMETRIC ELEVATION MODEL OF NEW ENGLAND.
- ELEVATIONS ARE IN FEET AND REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- TIDAL ELEVATIONS BASED ON TIDAL DATUM 8460751 WEST MYSTIC RIVER GAUGE.
- AERIAL PHOTO OBTAINED FROM CTECO.UCONN.EDU, 2019 ORTHOPHOTOGRAPHY.
- HABITAT SURVEYED BY GZA GEOENVIRONMENTAL INC. ON AUGUST 17, 2021.
- FEMA FLOOD HAZARD BOUNDARY BASED ON FLOOD INSURANCE RATE MAP FOR NEW LONDON COUNTY, CT, MAP NUMBER 09011C0529J REVISED ON AUGUST 5, 2021. AREA EAST OF FLOOD HAZARD BOUNDARY LINE IS WITHIN SPECIAL FLOOD HAZARD AREA ZONE VE (EL. 14'). AREA WEST OF FLOOD HAZARD BOUNDARY LINE IS WITHIN SPECIAL FLOOD HAZARD AREA ZONE AE (EL. 11').
- PROPERTY BOUNDARIES OBTAINED FROM CT DEEP GIS OPEN DATA WEBSITE.
- SWITCHGRASS PLANTED ALONG EASTERN SIDE OF CHIPPECHAUG TRAIL IN FALL 2021. PLANTING LOCATIONS ARE APPROXIMATE ONLY AND BASED ON EMAIL/PHONE COMMUNICATIONS WITH MS. KRISTIN FOSTER.
- EXISTING DUNE VEGETATION CONSISTS OF PHRAGMITES.
- KEY DESIGN PARAMETERS INCLUDE:
  - ANNUAL STORM STILLWATER ELEVATION 3.4 FEET NAVD88
  - 10% ANNUAL CHANCE STORM (10-YEAR) STILLWATER ELEVATION 5.0 FEET NAVD88
  - 1% ANNUAL CHANCE STORM (100-YEAR) STILLWATER ELEVATION 9.8 FEET NAVD88
  - CONNECTICUT SEA LEVEL RISE FOR 2050 20 INCHES OR 1.67 FEET (0.5 METER)
  - CONNECTICUT SEA LEVEL RISE FOR 2100 40 INCHES OR 3.33 FEET (1.0 METER)
  - STONE MARSH SILL DESIGN RECURRENCE INTERVAL 10 YEARS

DATUM RELATIONSHIP  
NOT TO SCALE

## NOTE:

TIDAL ELEVATIONS ARE REFERENCED TO NOAA TIDE GAUGE 8460751 (WEST MYSTIC RIVER).

## SURVEY AND PROJECT DATUM:

- ALL ELEVATIONS SHOWN ON PLANS ARE IN U.S. FEET AND REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- COORDINATES ARE BASED ON NORTH AMERICAN DATUM OF 1983 (NAD83), CONNECTICUT STATE PLANE, U.S. FEET (CT83F).
- CONTRACTOR SHALL MAINTAIN ADEQUATE SURVEY CONTROL AT ALL TIMES TO ESTABLISH AND MAINTAIN ALL LINES AND ELEVATIONS.

## GENERAL NOTES

- LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATION, ETC. PRIOR TO ANY CONSTRUCTION WORK IN THE VICINITY THEREOF. THE CONTRACTOR MUST NOTIFY DIGSAFE (PHONE NUMBER: 811) AT LEAST 3 FULL WORKING DAYS PRIOR TO ANY CONSTRUCTION. APPROPRIATE MUNICIPAL DEPARTMENTS MUST ALSO BE NOTIFIED. NOTIFY OWNER AND ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINDING, VERIFYING, AND RE-SETTING (IF NECESSARY) CONTROL POINTS AND BENCHMARKS FOR THE WORK OF THE CONTRACT OR OTHERWISE ESTABLISHING THEIR OWN.
- THE RESPONSIBILITY FOR SAFETY IN, ON, OR ABOUT THE JOBSITE SHALL BE THAT OF THE CONSTRUCTION CONTRACTOR. THESE DRAWINGS DO NOT INCLUDE COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SEQUENCE OF THE WORK, EXCEPT WHERE SPECIFICALLY DETAILED IN THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURFACE AND GROUNDWATER CONTROL DURING THE WORK OF THE CONTRACT. TEMPORARY WATER CONTROL MEASURES SHALL BE, AT MINIMUM, AS REQUIRED BY THE PROJECT PLANS, SPECIFICATIONS, AND PERMIT CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ADDITIONAL MEASURES NECESSARY FOR WATER CONTROL NECESSARY TO EXECUTE THE WORK OF THE CONTRACT "IN THE DRY". WATER CONTROL MEASURES ARE SUBJECT TO SPECIFIC LIMITS AND CONDITIONS AS MAY BE SHOWN ON THE PLANS.
- ACCESS TO THE SITE SHALL BE FROM CHIPPECHAUG TRAIL. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION AS PER THE PLANS AND SPECIFICATIONS. WHERE NO SPECIFIC INSTRUCTION IS GIVEN, RESTORATION SHALL BE TO THE ORIGINAL CONDITION OR BETTER AND AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR IS SPECIFICALLY INFORMED THAT THE RESTORATION REQUIREMENT APPLIES TO ALL AREAS DISTURBED AS A RESULT OF THE PROJECT, INCLUDING ACCESS ROADS.
- SPECIFIC AREAS HAVE BEEN DESIGNATED AND DELINEATED ON THE PLANS AS A CONTRACTOR STAGING AREAS. THE CONTRACTOR SHALL USE THESE AREAS AND THESE AREAS ONLY FOR ON-SITE PARKING, OFFICE TRAILERS (IF NECESSARY), EQUIPMENT AND MATERIAL STORAGE, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY NECESSARY SIGNAGE, FENCING, SAFETY, SEDIMENT/EROSION CONTROL, IMPROVEMENTS, RESTORATIONS, ETC. IN THESE AREAS. AREAS WITHIN THE LIMITS OF THE WORK MAY BE USED FOR TEMPORARY STORAGE, HAUL ROADS, PARKING, ETC.; HOWEVER, NO ADDITIONAL CONSIDERATIONS OR PAYMENT WILL BE MADE FOR WORK NECESSARY TO RE-GRADE AND RESTORE SUCH AREAS TO PRE-CONSTRUCTION CONDITIONS OR RELOCATE ANY MATERIALS OR EQUIPMENT TEMPORARILY STORED WITHIN THE LIMITS OF THE WORK. IF THE CONTRACTOR REQUIRES AND IDENTIFIES ADDITIONAL STAGING AREAS ON THE OWNER'S PROPERTY, THE CONTRACTOR SHALL MAKE A WRITTEN REQUEST TO THE OWNER AND ENGINEER DESCRIBING THE NEED AND LOCATION OF THE PROPOSED AREA. NO GUARANTEE IS MADE THAT ADDITIONAL STAGING AREAS WILL BE MADE AVAILABLE.
- PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL DEVELOP, SUBMIT, AND MAINTAIN AN EMERGENCY CONTACT LIST WITH NAMES AND PHONE NUMBERS (DAY AND NIGHT) OF ALL KEY PERSONNEL INVOLVED WITH THE PROJECT. THE LIST SHALL SPECIFICALLY INCLUDE THE PERSON FROM THE CONTRACTOR WHO SHALL BE RESPONSIBLE FOR ENVIRONMENTAL COMPLIANCE. THE LIST SHALL BE PROVIDED TO THE OWNER, ENGINEER, AND CTDEEP AND UPDATED AS NEEDED.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL PENALTIES AND DELAYS DUE TO NON-COMPLIANCE WITH PERMIT CONDITIONS.
- THE CONTRACTOR SHALL PROTECT EXISTING WETLANDS (INCLUDING HIGH AND LOW MARSHES). FENCING IS REQUIRED.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD.
- PLEASE REFER TO THE LONG-TERM MONITORING PLAN FOR PRELIMINARY PLANTING SCHEDULE. ACTUAL PLANTING SCHEDULE WILL BE PROVIDED DURING FINAL DESIGN.

## LEGEND

	TOPOGRAPHIC SURFACE CONTOUR MINOR (1' INTERVAL)
	TOPOGRAPHIC SURFACE CONTOUR MAJOR (5' INTERVAL)
	PROPERTY BOUNDARY
	FEMA FLOOD HAZARD BOUNDARY
	CJL/HTL - COASTAL JURISDICTION LIMIT (EL. 2.0 NAVD88) / HTL
	PROJECT AREA/LIMIT OF WORK
	MHHW EL.11 MEAN HIGH HIGH WATER
	MHW EL.0.8 MEAN HIGH WATER
	MSL EL.-0.4 MEAN SEA LEVEL
	MLW EL.-1.7 MEAN LOW WATER
	MLLW EL.-1.9 MEAN LOW LOW WATER
	EX. LOW MARSH
	EX. HIGH MARSH
	EX. BEACH
	EX. VEGETATED DUNE
	EX. ROCK
	EX. LAWN
	EX. SANDY INTERTIDAL
	EX. ROCKY INTERTIDAL
	EX. STONE REVETMENT
	PR. HIGH MARSH PLANTINGS
	PR. STONE SILL
	PR. PHRAGMITES MOWING
	1934 SHORELINE
	1951 SHORELINE
	1970 SHORELINE
	2019 SHORELINE

## ABBREVIATIONS AND ACRONYMS

CJL	COASTAL JURISDICTION LINE
DEEP	DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
DIA.	DIAMETER
D.I.	DUCTILE IRON
EL.	ELEVATION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
HASP	HEALTH AND SAFETY PLAN
HDPE	HIGH-DENSITY POLYETHYLENE
HTL	HIGH TIDED LINE
INV.	INVERT
MHHW	MEAN HIGH, HIGH WATER
MHW	MEAN HIGH WATER
MAX.	MAXIMUM
MIFD	MASON'S ISLAND FIRE DISTRICT
MIN.	MINIMUM
MLLW	MEAN LOW, LOW WATER
MLW	MEAN LOW WATER
MSL	MEAN SEA LEVEL
N / F	NON OR FORMERLY
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OHW	OVERHEAD WIRES
PCP	PRE-CAST PIPE
STA.	STATION
TYP.	TYPICAL
USACE	UNITED STATES ARMY CORPS OF ENGINEERS

## UTILITIES LEGEND:

	EXISTING WATER LINE
	EXISTING ELECTRICAL LINE
	EXISTING GAS LINE
	EXISTING TELECOMMUNICATIONS
	EXISTING WATER MANHOLE
	EXISTING ELECTRICAL MANHOLE
	EXISTING UTILITY MANHOLE
	EXISTING TELEPHONE MANHOLE
	EXISTING STORMWATER MANHOLE
	EXISTING UTILITY POLE
	EXISTING HYDRANT
	EXISTING WATER VALVE
	EXISTING GAS VALVE
	EXISTING ELECTRICAL BOX
	EXISTING LIGHT POST
	BOLLARDS

PERMIT PLAN  
NOT FOR CONSTRUCTION

NO.	ISSUE/DESCRIPTION	BY	DATE
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MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT			
GENERAL NOTES AND LEGEND			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com PREPARED FOR: MASON'S ISLAND FIRE DISTRICT P.O. Box 373 MYSTIC, CT 06355			
PROJ MGR: JRC	REVIEWED BY: SLL	CHECKED BY: MT	FIGURE G0.02
DESIGNED BY: DCS	DRAWN BY: BW/EDM	SCALE: AS NOTED	
DATE: JULY, 2025	PROJECT NO. 01.0175256.10	REVISION NO.	

**CONTRACTOR QUALIFICATIONS**

1. THE CONTRACTOR SHALL HAVE EXPERIENCE AND CAPABILITIES WITH CONSTRUCTION PROJECTS INVOLVING NATURAL AND NATURE-BASED FEATURES, INCLUDING SALT MARSH RESTORATION AND CONSTRUCTION, MARSH PLANTING, AND LIVING SHORELINES.
2. THE CONTRACTOR SHALL HAVE SUCCESSFULLY COMPLETED A MINIMUM OF 10 PROJECTS THAT INVOLVED NATURAL AND NATURE-BASED FEATURES INCLUDING A MINIMUM OF 5 LIVING SHORELINE PROJECTS AND 5 TIDAL MARSH RESTORATION PROJECTS. QUALIFICATIONS DEMONSTRATING THE CONTRACTOR'S EXPERIENCE SHALL BE SUBMITTED WITH THEIR PROJECT BID.

**PROJECT DESCRIPTION**

1. THE PROJECT INCLUDES CONSTRUCTION OF A LIVING SHORELINE, POST-CONSTRUCTION SITE RESTORATION; AND 1-YEAR PROJECT MAINTENANCE. THE LIVING SHORELINE PROJECT COMPONENTS INCLUDE:
  - a. EROSION AND SEDIMENT CONTROLS TO SUPPORT THE LIVING SHORELINE CONSTRUCTION;
  - b. SITE PREPARATION (INCLUDING SITE ACCESS AND STAGING AREA) AND ESTABLISH WATER CONTROL IF NEEDED;
  - c. ESTABLISH CONTROL STATIONS;
  - d. CONSTRUCTION OF NEW MARSH STONE SILLS;
  - e. STAKED COIR LOG INSTALLATION AND NEW MARSH AND SWITCHGRASS PLANTINGS;
  - f. MOWING PHRAGMITES (INVASIVE SPECIES). CUT/MOW TO THE DEPTH REQUIRED. PERFORM THE MOWING AT THE START AND END OF GROWING SEASON FOR YEAR ONE. REPEAT ONCE PER YEAR FOR THREE ADDITIONAL YEARS;
2. THE PROJECT SCOPE INCLUDES ALL WORK REQUIRED TO COMPLETE THE PROJECT INCLUDING LABOR, MATERIALS, TRANSPORTATION, SITE MOBILIZATION, SITE PREPARATION, CONSTRUCTION, EROSION AND SEDIMENT CONTROLS, SITE SURVEY AS REQUIRED TO COMPLETE THE CONSTRUCTION, DEMOLITION AND SITE RESTORATION, PROVISION OF ALL REQUIRED SUBMITTALS, SHOP DRAWINGS, ETC., AND PREPARATION AND SUBMITTAL OF AS-BUILT CONSTRUCTION DRAWINGS. THE PROJECT ALSO INCLUDES PROJECT VEGETATION MAINTENANCE FOR 1 YEAR, STARTING AT THE END OF CONSTRUCTION.
3. PROJECT QUANTITIES ARE PRESENTED FOR PERMITTING AND GENERAL INFORMATION PURPOSES ONLY. NUMERIC VALUES ROUNDED TO THE NEAREST TEN (10) FOR SIMPLICITY. CONTRACTOR SHALL INDEPENDENTLY ESTIMATE QUANTITIES FOR PURPOSE OF PROJECT BID (SF - SQUARE FEET; CY - CUBIC YARD):
 

a. STONE SILL AREA:	2,460 SF
b. NEW MARSH AREA:	100 SF
c. STONE SILL:	
- ANCHOR STONES	40 EACH
g. PLANTINGS:	
DISTICLIS SPICATA	PLUGS 115 EACH
PANICUM VIRGATUM	PLUGS 20 EACH

**GENERAL REQUIREMENTS FOR CONSTRUCTION:**

1. ALL WORK WILL BE MONITORED AND INSPECTED BY THE DESIGN ENGINEER DURING CONSTRUCTION.
2. CONSTRUCTION SCHEDULE LIMITATIONS:
  - a. NO INVASIVE SPECIES TREATMENT SHALL COMMENCE WITHOUT THE WRITTEN APPROVAL OF THE CLIENT.
  - b. ALL VEHICULAR WORK IN TIDAL WETLANDS TO BE DONE USING WOOD MATS, DURA-BASE MATS OR EQUIVALENT.
  - c. NO TIDAL MARSH OUTSIDE OF THE LIMITS OF THE PROJECT WORK SHALL BE DISTURBED, ALTERED OR DAMAGED DURING CONSTRUCTION. CONTRACTOR SHALL CLEARLY DEMARcate EXISTING TIDAL MARSH AREAS TO PREVENT DISTURBANCE DURING CONSTRUCTION.
  - d. THE CONTRACTOR SHALL BE PREPARED TO WORK WITHIN THE TIDAL CYCLE TO AVOID INUNDATION OF THE WORK AREA DURING CONSTRUCTION, WITH SPECIAL ATTENTION TO THE SALT MARSH PLANTING AREAS.
  - e. ALL MATERIAL LAYDOWN AND STOCKPILE SHALL BE IN AREAS ABOVE THE COASTAL JURISDICTION LINE (CIL AS SHOWN ON THE DRAWINGS).
  - f. THE CONTRACTOR SHALL IMPORT ALL FILL BY LAND AND PERFORM ALL CONSTRUCTION WITHOUT THE USE OF BARGES.
  - g. ALL CONSTRUCTION MATS AND CONSTRUCTION EQUIPMENT SHALL BE POWER WASHED PRIOR TO DELIVERY TO THE SITE TO PREVENT THE IMPORT OF INVASIVE SPECIES AND PATHOGENS.
  - h. FILL MATERIALS:
    - a. ALL FILL MATERIALS SHALL BE FREE OF CONTAMINANTS, ARTIFICIAL MATERIALS AND DEEP DELETERIOUS MATERIALS.
    - b. FILL MATERIALS SHALL BE FROM A SOURCE APPROVED BY THE ENGINEER AND OWNER PRIOR TO START OF CONSTRUCTION. TO PREVENT IMPORT OF PATHOGENS, FILL SOURCES SHALL BE LOCATED WITHIN CONNECTICUT OR FROM UPLAND OUT-OF-STATE LOCATIONS.

**CONSTRUCTION SEQUENCE:**

NOTIFY OWNER, ENGINEER, MASON'S ISLAND FIRE DISTRICT (MIFD), TOWN OF STONINGTON, AND CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION (DEEP) OF SCHEDULE AND CONDUCT SITE WALK TO INSPECT SEDIMENT AND EROSION CONTROL MEASURES. MODIFY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED. WORK MAY PROCEED ONCE APPROVAL HAS BEEN PROVIDED BY OWNER, ENGINEER, AND MIFD.

1. THE LIVING SHORELINE CONSTRUCTION SEQUENCE SHALL BE ESTABLISHED BY THE CONTRACTOR. IN GENERAL, THE EXPECTED SEQUENCE IS AS FOLLOWS:
  - a. SITE PREPARATION AND SITE ACCESS.
  - b. INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES.
  - c. INSTALLATION OF LIVING SHORELINE NEW MARSH STONE SILLS AND OYSTER SHELL BAGS.
  - d. STAKED COIR LOG INSTALLATION.
  - e. HIGH MARSH AND SWITCHGRASS PLANTING.
  - f. MOWING OF EXISTING INVASIVES (E.G., PHRAGMITES).
  - g. MARSH AND GRASS PLANTING PROTECTION.
  - h. REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES.
  - i. 1-YEAR MAINTENANCE.
  - j. REMOVAL OF PLANTING PROTECTION.
2. MARSH SILL CONSTRUCTION SEQUENCE:
  - a. STONE SILL CONSTRUCTION CAN BE COMPLETED DURING NORMAL TIDE CYCLES. CONTRACTOR USES DISCRETION.
  - b. USE CONSTRUCTION MATS OR LOW PRESSURE OR TRACKED VEHICLES.
  - c. EXCAVATE SILL BASE AS SHOWN ON PLANS.
  - d. INSTALL GEOTEXTILE FABRIC WITHIN AND OVER THE BACK EDGE OF THE SUBGRADE OF THE PROPOSED SILL, SECURING WITH BIODEGRADABLE PINS.
  - e. DELIVER IMPORTED STONE MATERIAL, AND INSTALL BY EXCAVATOR AT THE DESIRED ELEVATIONS:
    - i. PLACE BASE COURSE
    - ii. PLACE TWO LARGER ANCHOR STONES (A MINIMUM OF 1' DIAMETER, MAXIMUM OF 4' DIAMETER) AT TOE OF SILL.
    - f. PLACE SMALLER ROUGH ANGULAR STONE ON TOP OF THE LAND-SIDE ARMOR LAYER.
    - g. PLACE OYSTER BAGS IN BETWEEN STONES OR ON THE LAND-SIDE ARMOR LAYER, IF USED.
    - h. GEOTEXTILE FABRIC THAT IS PINNED UNDER THE BACK EDGE OF THE SILL SHALL BE LIFTED AND WRAPPED AROUND SMALLER ROUGH ANGULAR STONE ON THE BACK SLOPE OF THE SILL AT MARCH FILL ELEVATION.
    - i. ARMOR STONE SHALL BE CAREFULLY AND INDIVIDUALLY PLACED, NOT END DUMPED.
    - j. INSTALL OYSTER SHELL BAGS. TO BE FIELD PLACED.
  3. HIGH MARSH CONSTRUCTION SEQUENCE:
    - a. INSTALL ANCHORED STAKED COIR LOG TO THE ERODED LAWN AREA OPENING.
    - b. INSTALL SPIKE GRASS MARSH PLANTINGS IN THE AREA BETWEEN THE COIR LOGS AND EDGE OF ERODED LAWN.
    - c. INSTALL SWITCHGRASS PLANTING IN TWO ROWS AT EDGE OF ERODED LAWN.
    - d. INSTALL HERBIVORE EXCLUSION FENCE AND PROTECTION WITHIN NEWLY PLANTED MARSH.
  4. PROJECT DEMOBILIZATION AND SITE RESTORATION (INCLUDING GRAVEL ROADWAY RESTORATION). OFFSITE DISPOSAL OF EXCESS MATERIALS IF ANY.
  5. PLANTING NOTES:
    - a. PLANTING OF THE SALT MARSH AND GRASSES SHALL BE PERFORMED AT A TIME OPTIMAL TO THE ESTABLISHMENT AND GROWTH OF THE SPECIES PLANTED. A PLANTING SCHEDULE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PLANTING.
    - b. PROPOSED PLANTINGS SHALL BE OBTAINED FROM A SOURCE AND NURSERY APPROVED BY THE ENGINEER.
    - c. ALL PLANTINGS SHALL CONFORM TO THE PLANT LIST SHOWN ON THE DRAWINGS AND SHALL BE INSPECTED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
    - d. SWITCHGRASS (PANICUM SPICATA) CONTAINERS TO BE PLANTED IN ALTERNATING ROWS, AT 18" O.C. THROUGHOUT THE RESTORED AREA. 8 ONE TWO-GALLON CONTAINER PLUGS TO BE PLACED IN EACH HOLE AND THE SAND GENTLY COMPACTION TO SECURE THE CULM OR PLUG.
    - e. SALT MARSH PLUGS (DISTICLIS SPICATA) SHALL BE PLANTED IN ALTERNATING, STAGGERED ROWS, USING 2" PLUGS SPACED AT A MAXIMUM 18" O.C. THROUGHOUT THE CREATED SALT MARSH AREA.
    - f. FOLLOWING COMPLETION OF PLANTING, SNOW FENCING SHALL BE INSTALLED AROUND THE LIMIT OF PLANTINGS AND SHALL REMAIN IN PLACE UNTIL ESTABLISHMENT OF PLANTINGS. SNOW FENCING CAN REMAIN IN PLACE FOR ADDITIONAL SAND ACRETION IF DESIRED BY THE OWNER AND UPON APPROVAL OF THE ENGINEER.
    - g. THE CONTRACTOR SHALL PROVIDE PLANT MATERIALS IN THE QUANTITIES, SPECIES AND SIZES SHOWN ON THE PLANS AND NOTES.
    - h. ALL PLANT MATERIALS SHALL CONFORM TO THE CURRENT ISSUE OF AMERICAN STANDARD FOR NURSERY STOCK (ASNS), ANSI Z-60.1, LATEST EDITION PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN (AAN), WITH: AMERICAN STANDARD FOR NURSERY STOCK (ASNS), ANSI Z60.1-2004, OR LATEST EDITION, PUBLISHED BY AMERICAN NURSERY AND LANDSCAPE ASSOCIATION (ANLA). (FORMERLY AMERICAN ASSOCIATION OF NURSERYMEN AND LANDSCAPE ASSOCIATION (ANIA), FORMERLY AMERICAN ASSOCIATION OF NURSERYMEN). OTHER SUBSEQUENT REFERENCES TO AAN SHOULD LIKEWISE BE REVISED TO ANLA.
    - i. ALL PLANTS SHALL BE LIVING AND HEALTHY WITH VIGOROUS ROOT SYSTEMS SUITABLE TO ENSURE ESTABLISHMENT OF THE PLANT. SALT MARSH PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. PLANTS MAY BE 2-INCH OR LARGER PLUGS, BARE ROOT OR 2-INCH POTS. BAREROOT PLANTS SHALL HAVE STEM AND ROOT DEVELOPMENT SIMILAR TO 2-INCH PLUGS. ALL PLANTS SHALL BE FREE FROM MATERIAL DETERMINAL TO A HEALTHY STAND OF PLANTS. ANY PLANTS EXPOSED TO EXCESSIVE HEAT OR DRYING SHALL BE REJECTED.
    - j. ALL PLANT MATERIAL SHALL BE SPECIES NATIVE TO THE REGION. AS PER CURRENT RECOMMENDATIONS BY THE NOAA RESTORATION CENTER AND THE EPA ECOREGION ASSESSMENT, IN ORDER TO MAINTAIN GENETIC DIVERSITY, ONLY NATIVE SPECIES OF SEED AND PLANTS FROM THE EPA LEVEL III ECOREGION OF THE PROJECT AREA SHALL BE USED FOR ECOSYSTEM RESTORATION. THE EPA LEVEL III ECOREGIONS OF THE PROJECT SITE IS ECOREGION 59 NORTHEASTERN COASTAL ZONE. THE CURRENT EPA MAP, ECOREGIONS OF THE CONTINENTAL UNITED STATES, IS AVAILABLE THROUGH THE FOLLOWING LINK: <https://www.epa.gov/eco-research/level-iii-and-iv-ecoregions-state>
    - l. THE NURSERY SOURCE SHALL CERTIFY THAT THE PROVENANCE, OR ORIGIN, OF THE SEED FROM WHICH THE PLANTS WERE PRODUCED IS FROM THE APPLICABLE EPA LEVEL III ECOREGION.
    - m. PLANT MATERIAL INTENDED FOR SALT MARSH CREATION AREAS SHALL BE ACCLIMATED TO THE SALINITY OF THE ADJACENT WATER BODY. SALINITY ACCLIMATION SHALL BE DONE INCREMNTALLY AT THE NURSERY TO BRING THE PLANTS UP TO A TOLERANCE OF THE SITE SALINITY. PLANTS SHALL BE THRIVING IN THE NURSERY AT THE TARGET SALINITY LEVEL FOR A MINIMUM OF TWO WEEKS PRIOR TO DELIVERY.
    - n. FINAL LOCATION OF ALL PLANTINGS TO BE APPROVED IN THE FIELD BY THE ENGINEER.
    - o. UPON COMPLETION OF SALT MARSH PLANTING, HERBIVORY PROTECTION FENCING SHALL BE INSTALLED AROUND THE LIMIT OF PLANTINGS AND SHALL REMAIN IN PLACE THROUGH THE FIRST GROWING SEASON. HERBIVORY PROTECTION FENCING SHALL BE REMOVED BY THE CONTRACTOR ONCE THE PLANT COMMUNITY IS ESTABLISHED TO THE SATISFACTION OF THE ENGINEER.
    - p. FERTILIZER SHALL BE APPLIED 30 DAYS AFTER PLANTING SWITCHGRASS, BUT NO EARLIER THAN MAY 1. FERTILIZER SHALL NOT BE APPLIED TO NEWLY PLANTED PLANTS. ADDITIONAL FERTILIZER SHALL BE APPLIED FOLLOWING THE INITIAL SPRING APPLICATION IN EARLY SUMMER AND AGAIN IN LATE SUMMER DURING THE INITIAL ESTABLISHMENT YEAR.
    - q. AN ORGANIC, GRANULAR FERTILIZER, HIGH IN NITROGEN (30-10-0, 16-8-8 OR 10-10-10) AS APPROVED BY THE PROJECT ECOLOGIST SHALL BE USED. FERTILIZER APPLICATION WILL NOT EXCEED MORE THAN ONE (1) LB. OF NITROGEN PER 1,000 SQ. FT. IN ANY SINGLE APPLICATION.
    - r. FOR OFF-SITE MATERIALS SUBMIT TO THE ENGINEER FOR REVIEW AND ACCEPTANCE THE NAME OF EACH MATERIAL SUPPLIER WITH SPECIFIC TYPE AND SOURCE OF EACH MATERIAL.
    10. CONTRACTOR SHALL USE 16 INCH DIAMETER COIR LOGS WHERE SHOWN ON PLANS AND INSTALL 6 INCHES OF THE LOG BELOW THE SURFACE. COIR LOGS SHALL BE SECURED IN PLACE WITH 4 FEET DUCKBILL ANCHORS EVERY 3 FEET. USE A STACKED CONFIGURATION IF ADDITIONAL HEIGHT AND/OR STABILITY IS NEEDED.

**WETLAND SILL AND MARSH MONITORING & MAINTENANCE PROCEDURES**

1. THE LIVING SHORELINE WILL BE PERIODICALLY EXPOSED TO EXTREME WATER LEVELS, WAVES AND WIND THAT CAN RESULT IN DAMAGE TO THE VEGETATED COVER AND EROSION OF SEDIMENT. HERBIVORE VEGETATION DAMAGE MAY ALSO OCCUR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE MARSH, MARSH SILL, OYSTER SHELL BAGS AND VEGETATION FOR A PERIOD OF ONE YEAR TO ENSURE THAT THE VEGETATION IS FULLY ESTABLISHED.
3. NO MAINTENANCE OR REPAIRS ARE TO BE PERFORMED WITHOUT PRIOR APPROVAL OF THE PLANNING & ZONING COMMISSION OR ITS AGENT.
4. MAINTENANCE AND RESTORATION AFTER ONE YEAR WILL BE THE RESPONSIBILITY OF THE PROJECT OWNER (MASON'S ISLAND SHORELINE TASK FORCE) AND/OR TOWN OF STONINGTON.
5. NO MAINTENANCE OR REPAIRS ARE TO BE PERFORMED WITHOUT PRIOR APPROVAL OF THE PLANNING & ZONING COMMISSION OR ITS AGENT.
6. THE PROJECT OWNER SHALL BE ALLOWED TO REMOVE LITTER FROM THE PROJECT AREA AT ANY TIME WITHOUT PRIOR APPROVAL. LITTER SHALL MEAN CARELESSLY DISCARDED REFUSE, BUT NOT STORM DEBRIS SUCH AS ROCKS, LOGS, ETC.
7. REPAIR AND RE-VEGETATION OF THE PROJECT SHALL BE PERFORMED ONLY BETWEEN OCTOBER 1 AND APRIL 1. REVEGETATION OF THE SALT MARSH MUST OCCUR BETWEEN MAY AND SEPTEMBER.
9. THE PROJECT OWNER SHALL ASSURE THAT ALL UNQUALIFIED MATERIALS, CONSTRUCTION DEBRIS, OR OTHER MATERIALS DETERMINED TO BE INADEQUATE WILL BE REMOVED FROM THE SITE AND LAWFULLY DISPOSED.
8. REPAIRS SHALL BE PERFORMED TO A FINAL CONDITION AS ORIGINALLY APPROVED BY THE ENGINEER, THE BOROUGH OF STONINGTON AND THE DEEP. GRAVEL AND SILL ROCK SIZE SHALL BE AS ORIGINALLY APPROVED BY THE ENGINEER AND BY THE TOWN OF STONINGTON.
10. PARAMETERS OF FINISHED REPAIRS SHALL BE CONSISTENT WITH THE APPROVED PLAN. MAXIMUM AND MINIMUM ELEVATION DIFFERENCES SHALL NOT EXCEED THOSE OF THE APPROVED PLAN.
11. DISTURBED AREAS SHALL BE REVEGETATED BASED ON THE PLANTING ZONES SHOWN ON THE DRAWINGS.
12. FERTILIZER FOR BEACHGRASS ESTABLISHMENT SHALL BE APPLIED 30 DAYS AFTER PLANTING, BUT NO EARLIER THAN MAY 1. FERTILIZER SHALL NOT BE APPLIED TO NEWLY PLANTED CULMS. APPLY ADDITIONAL FERTILIZER, FOLLOWING THE INITIAL SPRING APPLICATION IN EARLY SUMMER AND AGAIN IN LATE SUMMER DURING THE INITIAL ESTABLISHMENT YEAR.
13. USE INORGANIC, GRANULAR FERTILIZER, HIGH IN NITROGEN (30-10-0, 16-8-8 OR 10-10-10) FOR THE BEACHGRASS AS APPROVED BY THE PROJECT ECOLOGIST. APPLY NO MORE THAN 1 LB. OF NITROGEN PER 1,000 SQ FT IN ANY SINGLE APPLICATION.

**CONTRACTOR SUBMITTALS**

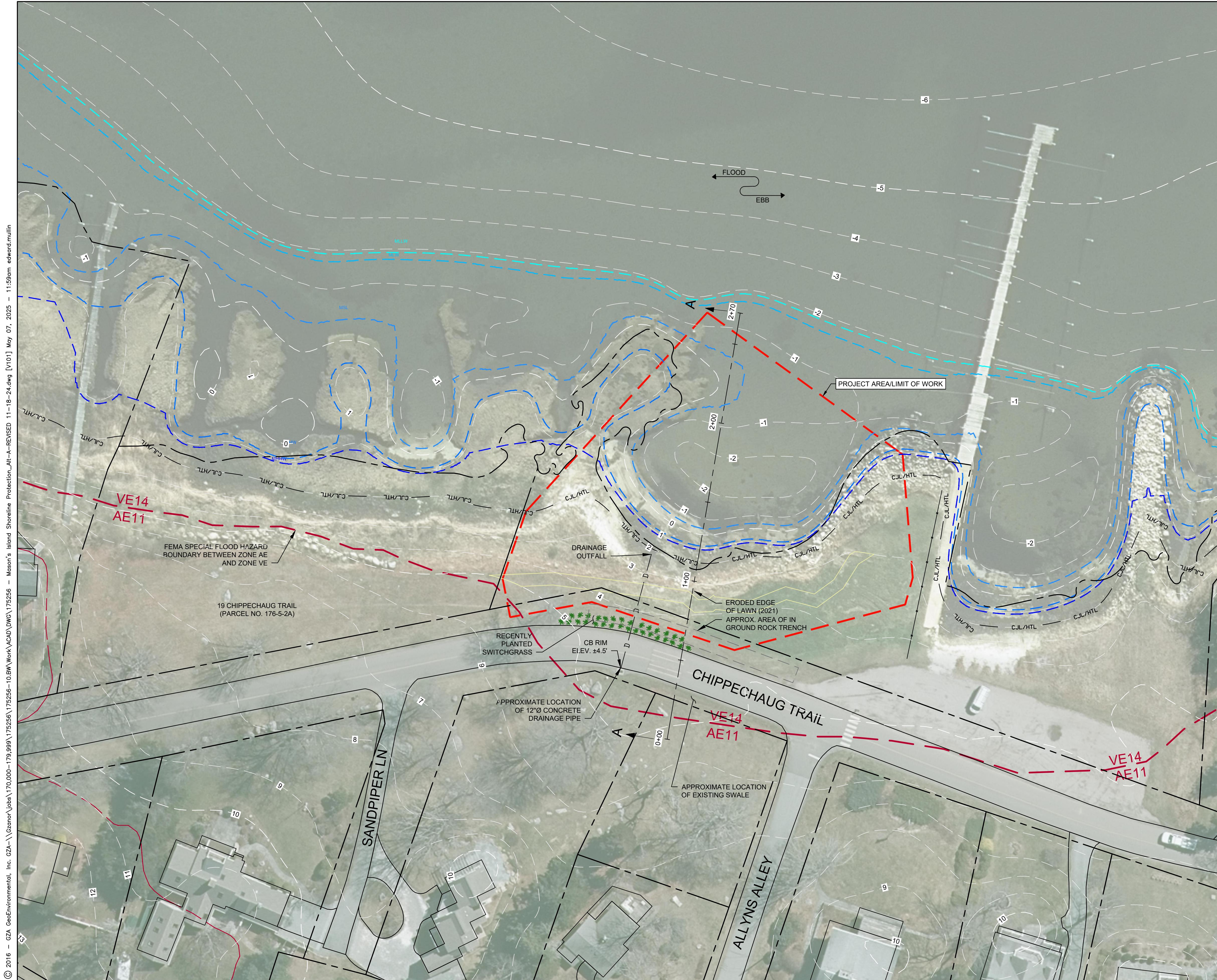
1. THE FOLLOWING CONTRACTOR SUBMITTALS ARE REQUIRED FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER.
  - a. A TREATMENT PLAN FOR INVASIVE SPECIES LOCATED WITHIN THE PROJECT FOOTPRINT SHALL BE SUBMITTED BY THE CONTRACTOR TO THE PROJECT ENGINEER, BOROUGH AND OWNER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK. NO TREATMENT SHALL COMMENCE WITHOUT THE WRITTEN APPROVAL OF THE OWNER.
  - b. THE PROPOSED CONSTRUCTION SEQUENCE SHALL BE SUBMITTED PRIOR TO THE START OF ANY WORK.
  - c. THE CONTRACTOR SHALL PROVIDE UTILITY IDENTIFICATION RESULTS AND DETAILED PLAN FOR:
    - TEMPORARY SUPPORT OF UTILITIES DURING CONSTRUCTION
    - PROTECTION OF UTILITIES FROM CONSTRUCTION TRAFFIC
  - d. THE CONTRACTOR SHALL PERFORM GRADATION TESTS USING SIEVE ANALYSIS FOR ALL IMPORTED MATERIALS AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. A MINIMUM OF ONE TEST PER 300 CY OF FILL SHALL BE PERFORMED.
  - e. THE CONTRACTOR SHALL PERFORM FIELD COMPACTION TESTS AS NOTED AND PROVIDE RESULTS TO OWNER AND ENGINEER FOR REVIEW AND APPROVAL.
2. THE CONTRACTOR SHALL IDENTIFY, AT THE START OF WORK, ALL PROPOSED SOURCES OF IMPORTED MATERIALS. MATERIAL SOURCES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER AND OWNER.
3. PROPOSED PLANTING SCHEDULE. A PLANTING SCHEDULE SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF PLANTING.
4. THE SILLS SHALL BE PLACED TO THE LOCATION AND ALIGNMENT AS SHOWN OF THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING SHOWING THE LOCATION OF THE SILL CRESTS (BOTH SIDES) AND DEFINING THE SILL ALIGNMENT IN STATE PLANE COORDINATES OR LATITUDE/LONGITUDE. THE SHOP DRAWING, AS APPROVED BY THE ENGINEER, SHALL BE UTILIZED BY THE CONTRACTOR DURING THE SILL CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE DETAILS FOR IMPLEMENTATION OF THE 1-YEAR MAINTENANCE PROGRAM (INCLUDING CONFORMANCE WITH THE PROJECT MONITORING AND MAINTENANCE PROGRAM). THE QUANTITATIVE CONDITIONS FOR MAINTENANCE AND MAINTENANCE DETAILS ARE PRESENTED IN THE PERMIT DOCUMENTS, WHICH ARE INCORPORATED AS PART OF THE PROJECT CONSTRUCTION CONTRACT REQUIREMENTS.
6. THE CONTRACTOR SHALL PERFORM (USING A LICENSED SURVEYOR) AND PROVIDE AN AS-BUILT CONSTRUCTION PLAN AT THE END OF THE CONSTRUCTION.
7. THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBSERVE AND INSPECT THE SILL STONE PLACEMENT TOWARDS THE END OF SILL CONSTRUCTION.

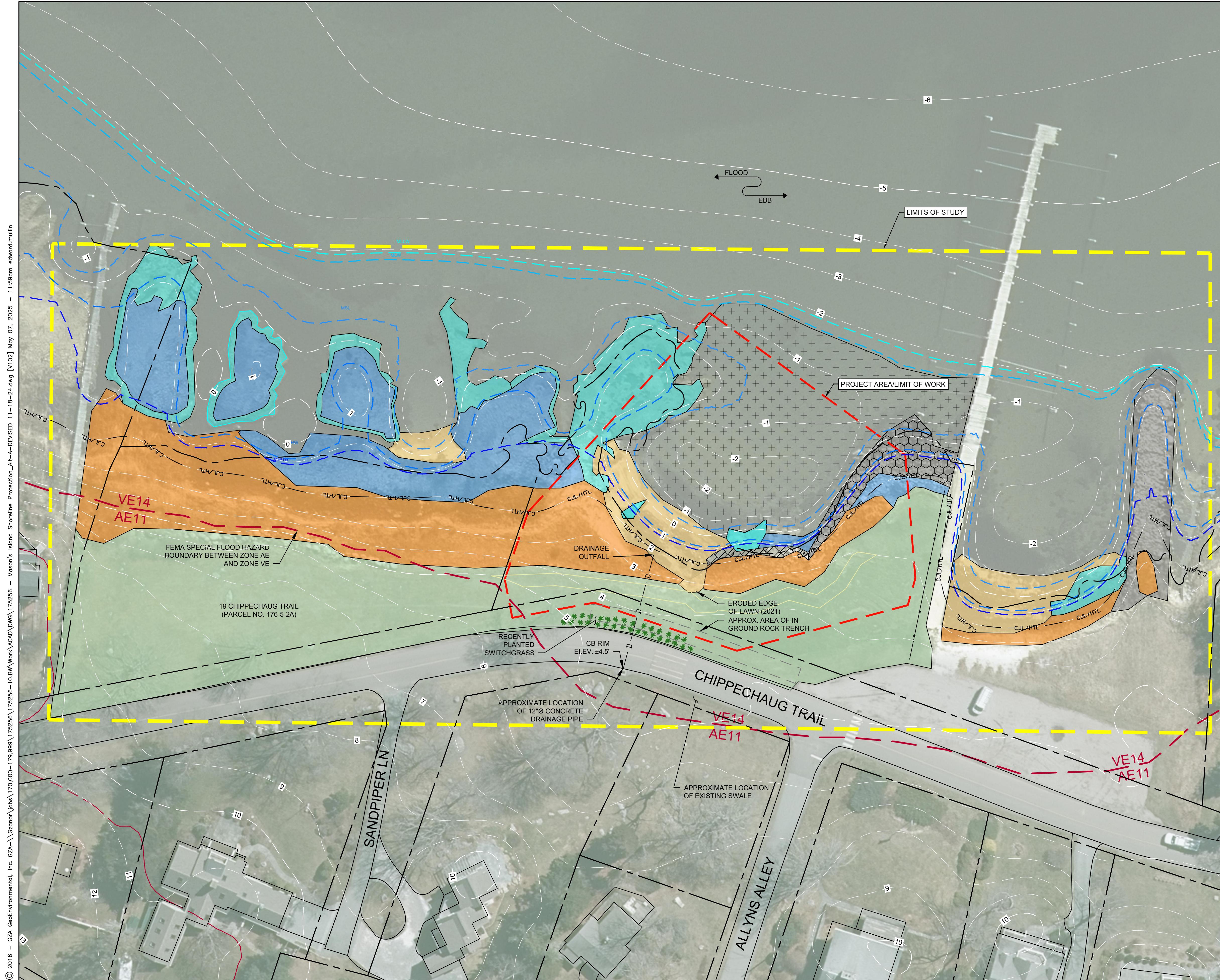
**PHRAGMITES ERADICATION**

ALTHOUGH IT IS ILLEGAL TO TRANSPORT MATERIAL OF ANY SPECIES LISTED UNDER CONNECTICUT GENERAL STATUTE SEC. 22A-381D AS AN INVASIVE PLANT, THE STATUTE INCLUDES AN EXCEPTION FOR THE MOVING OF PLANT MATERIAL FOR THE PURPOSE OF ERADICATION. THE BEST TIME TO DISPOSE OF INVASIVE PLANTS IS BEFORE PLANTS FLOWER AND PRODUCE SEED. CARE WILL BE TAKEN WHEN DISPOSING OF RHIZOMES (ROOT FRAGMENTS) AND OTHER PLANT PARTS WILL BE DISPOSED AND NOT ALLOW THE MATERIAL TO CONTINUE TO GROW AND SPREAD. COMPOSTING IS NOT RECOMMENDED, AND PLANTS SHOULD NOT BE PLACED IN BRUSH PILES. INCINERATION OF MATERIAL MAY BE A Viable OPTION IF IT CAN BE BAGGED AND TRANSPORTED SECURELY TO AN INCINERATOR. AN APPROPRIATE METHOD OF DISPOSAL SHOULD BE EVALUATED.

**PERMIT PLAN  
NOT FOR CONSTRUCTION**

NO.	ISSUE/DESCRIPTION	BY	DATE
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MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT			
<b>CONSTRUCTION NOTES &amp; SEQUENCE</b>			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: MASON'S ISLAND FIRE DISTRICT P.O. Box 373 Mystic, CT 06355	
PROJ MGR: JRC	REVIEWED BY: SLL	CHECKED BY: MT	FIGURE
DESIGNED BY: DCS	DRAWN BY: BW/EDM	SCALE: AS NOTED	G0.03
DATE: JULY, 2025	PROJECT NO. 01.0175256.10	REVISION NO.	



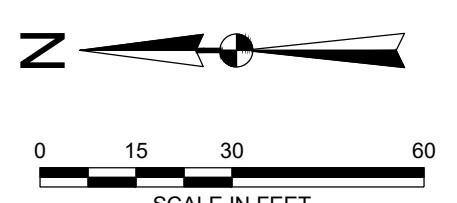


NOTES:

- EXISTING TOPOGRAPHIC CONTOURS WERE DEVELOPED BASED ON HURRICANE SANDY REGION - TOPOBATHYMETRIC ELEVATION MODEL OF NEW ENGLAND.
- ELEVATIONS ARE IN FEET NAVD88.
- AERIAL PHOTO OBTAINED FROM CTECO.UCONN.EDU, 2019 ORTHOPHOTOGRAPHY
- TIDAL ELEVATIONS BASED ON TIDAL DATUM 8460751 WEST MYSTIC RIVER
- HABITAT SURVEYED BY GZA GEOENVIRONMENTAL INC. ON AUGUST 17, 2021.
- FEMA FLOOD HAZARD BOUNDARY BASED ON FLOOD INSURANCE RATE MAP FOR NEW LONDON COUNTY, CT, MAP NUMBER 09011C0529J REVISED ON AUGUST 5, 2021. AREA EAST OF FLOOD HAZARD BOUNDARY LINE IS WITHIN SPECIAL FLOOD HAZARD AREA ZONE VE (EL. 14'). AREA WEST OF FLOOD HAZARD BOUNDARY LINE IS WITHIN SPECIAL FLOOD HAZARD AREA ZONE AE (EL 11').
- PROPERTY BOUNDARIES OBTAINED FROM CT DEEP GIS OPEN DATA WEBSITE.
- SWITCHGRASS PLANTED ALONG EASTERN SIDE OF CHIPPECHAUG TRAIL IN FALL 2021. PLANTING LOCATIONS ARE APPROXIMATE ONLY AND BASED ON EMAIL/PHONE COMMUNICATIONS WITH MS. KRISTIN FOSTER.
- EXISTING DUNE VEGETATION CONSISTS OF PHRAGMITES.

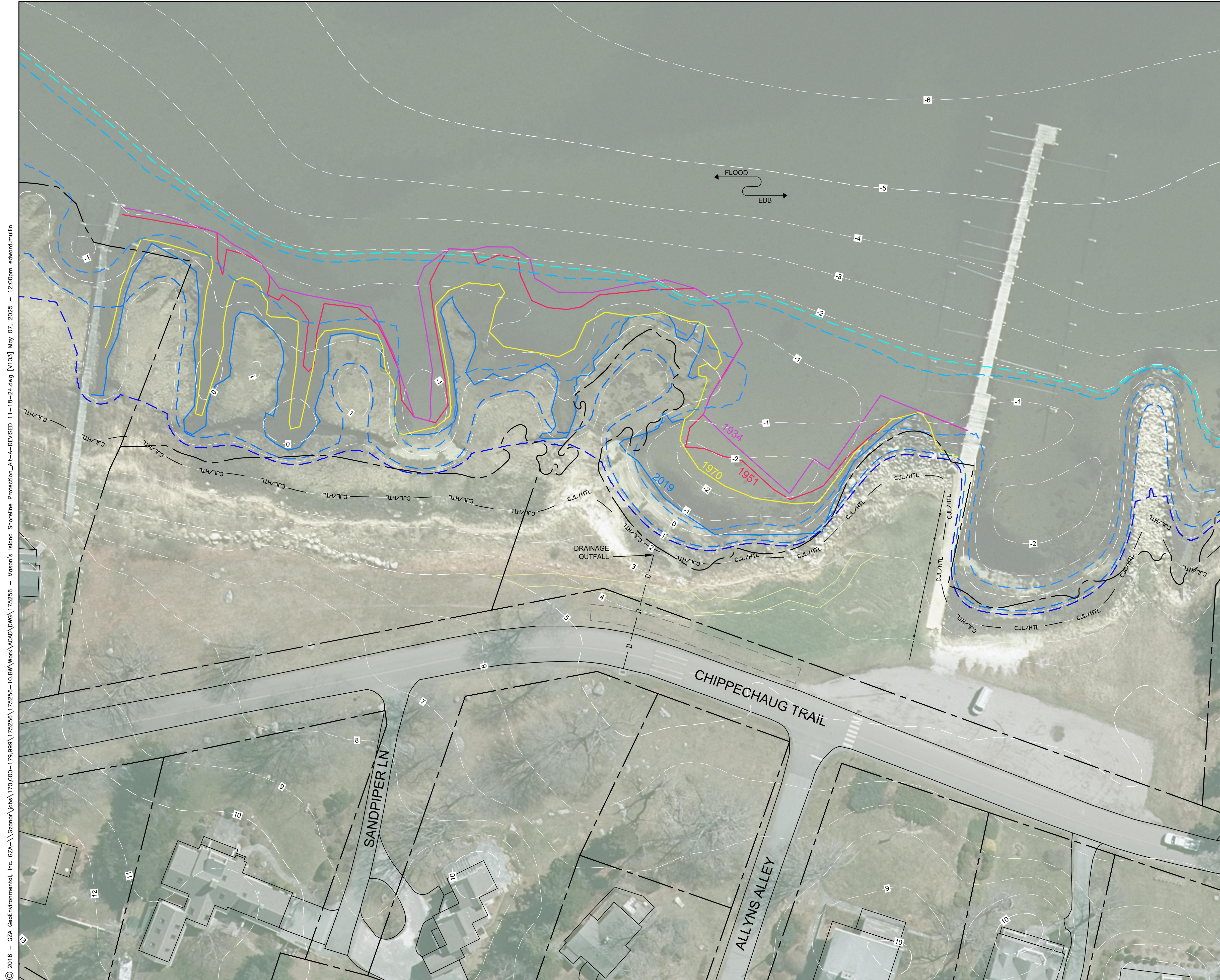
#### LEGEND

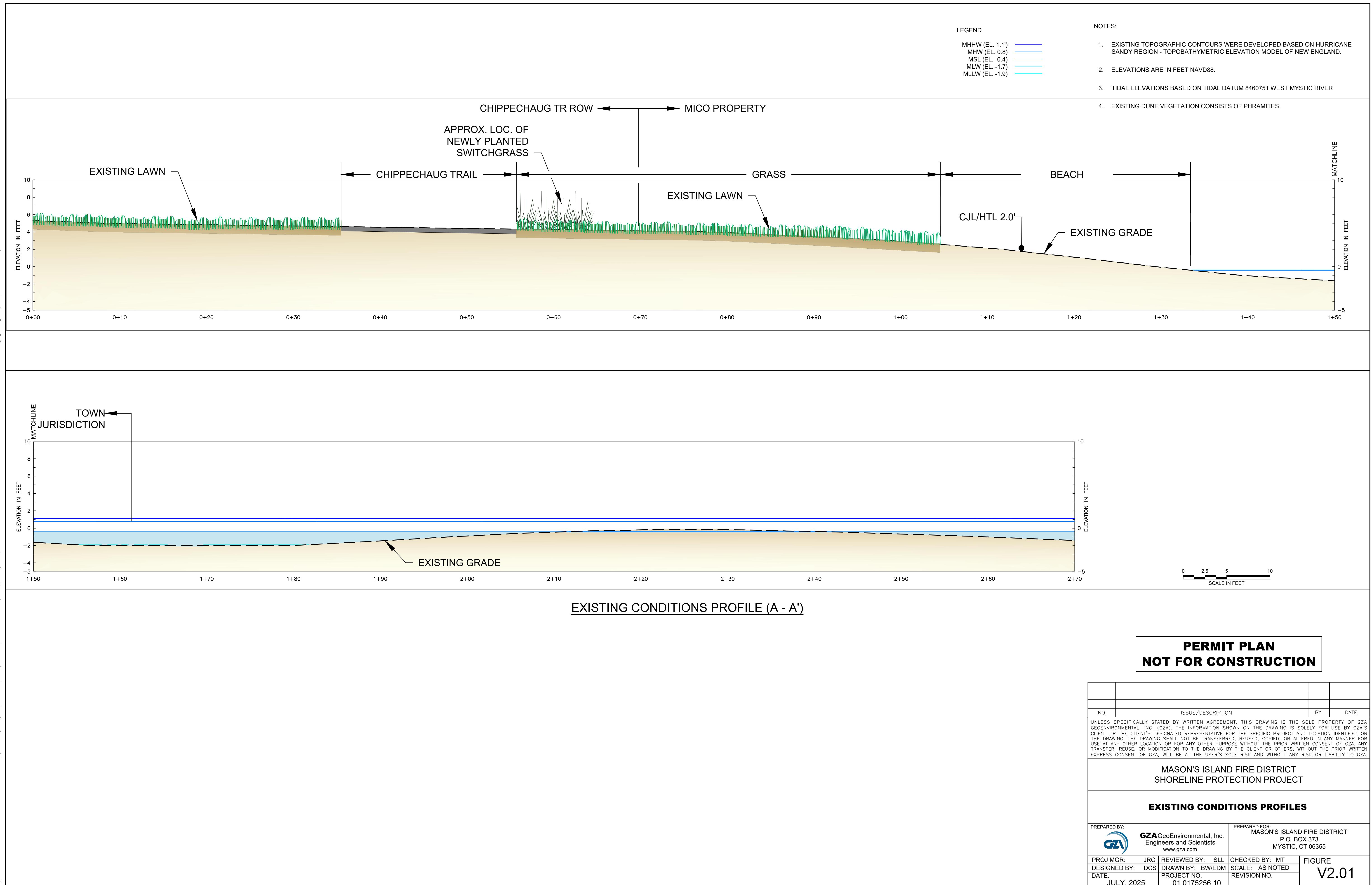
1	TOPOGRAPHIC SURFACE CONTOUR MINOR (1' INTERVAL)
5	TOPOGRAPHIC SURFACE CONTOUR MAJOR (5' INTERVAL)
—	PROPERTY BOUNDARY
—	FEMA FLOOD HAZARD BOUNDARY
—	COASTAL JURISDICTION LIMIT (EL. 2.0 NAVD88) / HTL
—	PROJECT AREA/LIMIT OF WORK
MHHW EL. 1.1	MEAN HIGH HIGH WATER
MHW EL. 0.8	MEAN HIGH WATER
MSL EL. -0.4	MEAN SEA LEVEL
MLW EL. -1.7	MEAN LOW WATER
MLLW EL. -1.9	MEAN LOW LOW WATER
EX. LOW MARSH	
EX. HIGH MARSH	
EX. BEACH	
EX. VEGETATED DUNE	
EX. ROCK	
EX. LAWN	
++	EX. SANDY INTERTIDAL
XX	EX. ROCKY INTERTIDAL
---	EX. STONE REVETMENT

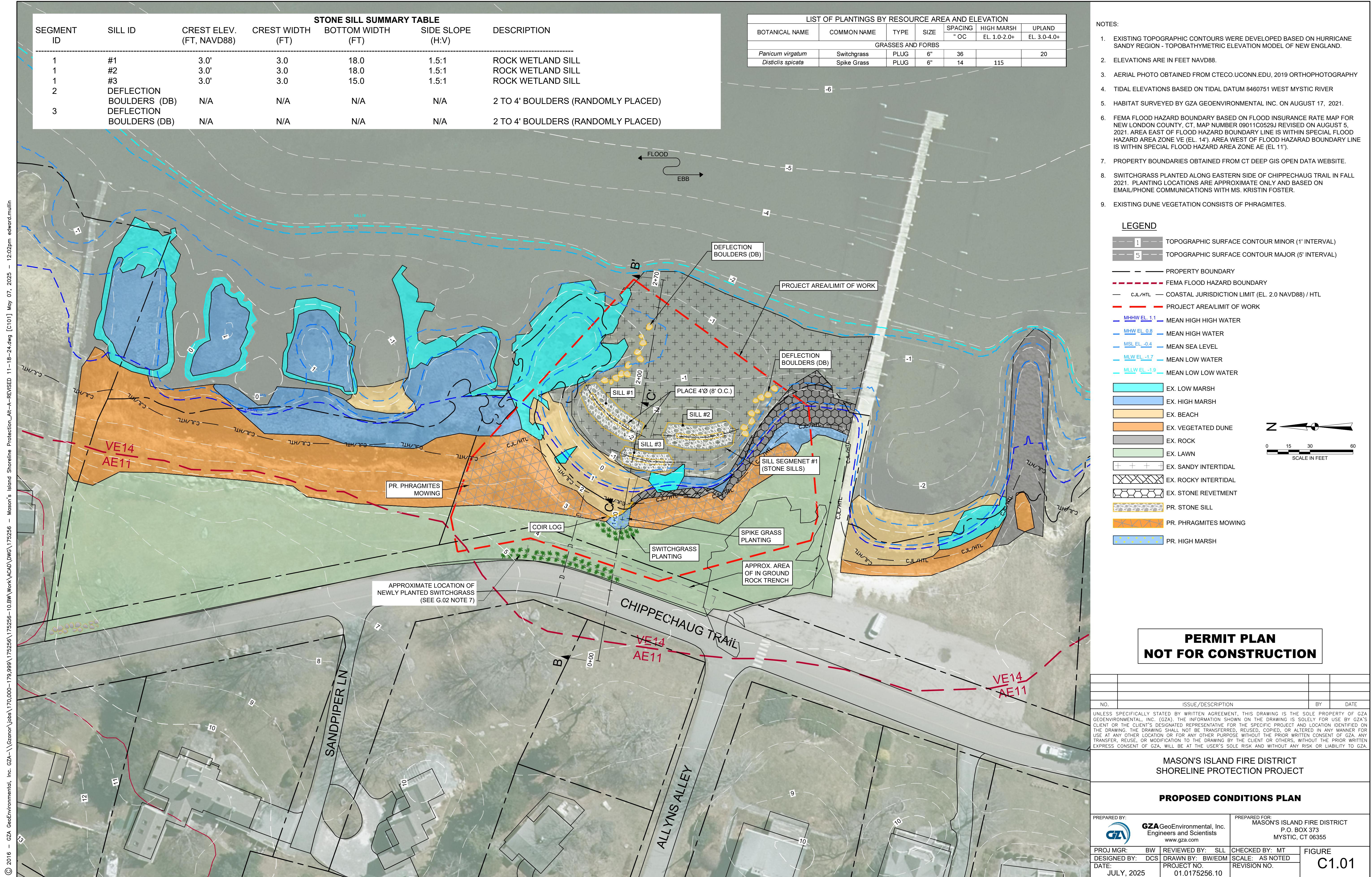


#### PERMIT PLAN NOT FOR CONSTRUCTION

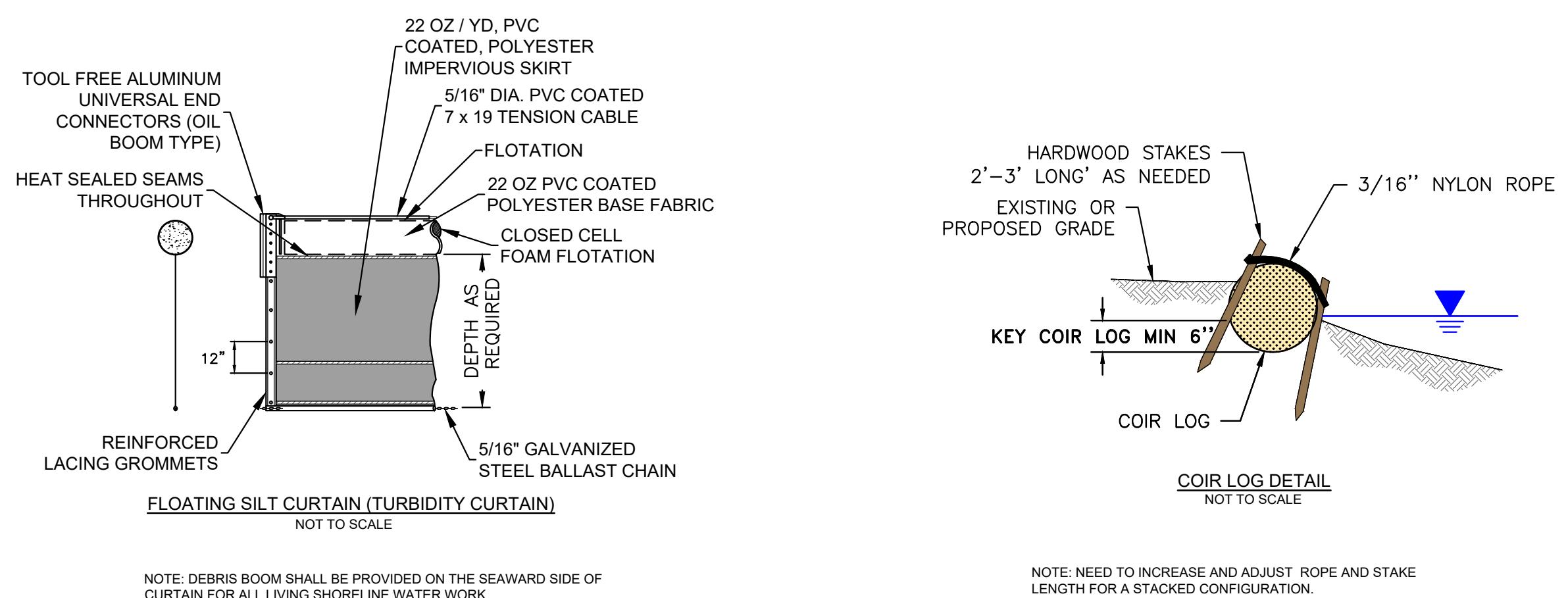
NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. IT IS NOT TO BE COPIED, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, OR FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE, WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT			
EXISTING HABITATS			
PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: <b>MASON'S ISLAND FIRE DISTRICT</b> P.O. Box 373 Mystic, CT 06355	FIGURE <b>V1.02</b>	
PROJ MGR: <b>JRC</b>	REVIEWED BY: <b>SLL</b>	CHECKED BY: <b>MT</b>	
DESIGNED BY: <b>DCS</b>	DRAWN BY: <b>BW/EDM</b>	SCALE: <b>AS NOTED</b>	
DATE: <b>JULY, 2025</b>	PROJECT NO. <b>01.0175256.10</b>	REVISION NO.	









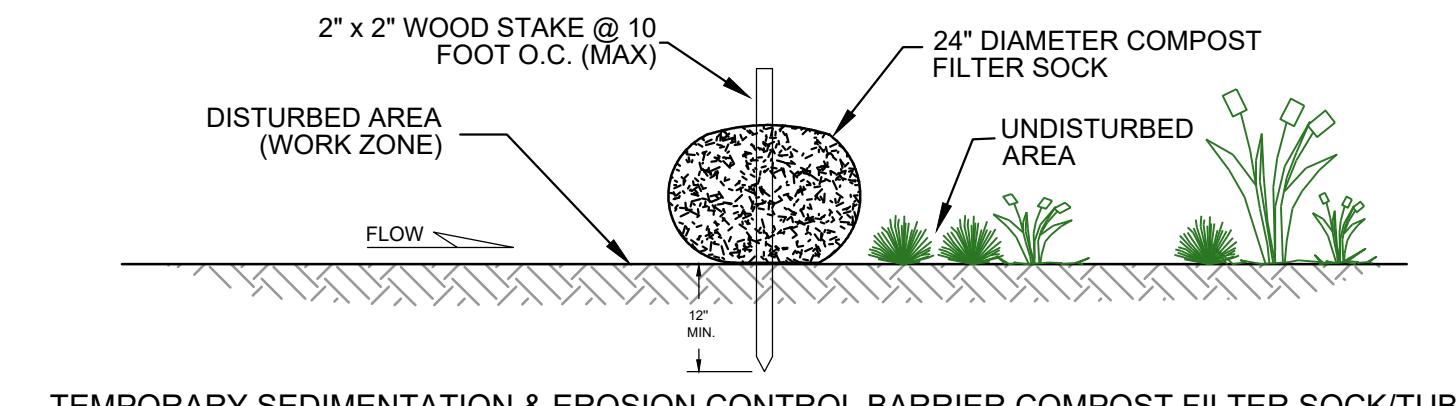


NOTE: DEBRIS BOOM SHALL BE PROVIDED ON THE SEAWARD SIDE OF CURTAIN FOR ALL LIVING SHORELINE WATER WORK.

NOTE: NEED TO INCREASE AND ADJUST ROPE AND STAKE LENGTH FOR A STACKED CONFIGURATION.

#### EROSION AND SEDIMENTATION CONTROL

1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN 2002 (OR LATEST EDITION).
2. TEMPORARY CONTROL OF EROSION AND SEDIMENT DISCHARGE IS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL PROPOSED STABILIZATION IS ACHIEVED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE AREAS WITHIN THE LIMITS OF WORK AND BEYOND FROM SEDIMENT AND/OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON OR IN SUPPORT OF THE PROJECT, INCLUDING SEDIMENT DUE TO EROSION FROM STORMWATER RUNOFF.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES NECESSARY TO EXECUTE AND COMPLETE THE WORK OF THE CONTRACT, IN COMPLIANCE WITH THE TERMS AND CONDITIONS CONTAINED IN THE CONTRACT, PROJECT PERMITS AND ALL STATE AND LOCAL ORDINANCES THAT APPLY. CONTROLS SHOWN ON THE CONTRACT DRAWINGS SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE CONTRACTOR SHALL EMPLOY WHATEVER SUPPLEMENTARY MEASURES NECESSARY TO PROTECT WATER, AND ADJACENT AREAS FROM DISTURBANCE OR DISCHARGE OF SEDIMENTS.
4. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT MIGRATION INTO WATER BY SILT, SEDIMENT, FUELS, SOLVENTS, LUBRICANTS, CONCRETE, OR ANY OTHER POLLUTANTS ASSOCIATED WITH CONSTRUCTION PROCEDURES.
5. ACTUAL LOCATION OF EROSION CONTROLS AND BEST MANAGEMENT PRACTICES (BMP) MAY VARY DUE TO FIELD CHANGES, ONGOING CONSTRUCTION, ACCESS NEEDS, WEATHER, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING THESE CHANGES AND ADJUSTING EROSION CONTROLS AND BMP LOCATIONS ACCORDINGLY. IN PARTICULAR, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND RELOCATION OF BMPs WITH PROJECT PHASING, AS NECESSARY.
6. ALL EROSION CONTROLS AND BMPs SHALL REMAIN IN PLACE, EXCEPT AS OTHERWISE NECESSARY, UNTIL CONSTRUCTION IS COMPLETED AND PROPOSED STABILIZATION IS ACHIEVED. ALL CONTROLS AND BMPs SHALL BE SUBJECT TO INSPECTION BY THE OWNER AND THEIR REPRESENTATIVE AT ANYTIME THEREAFTER.
7. ADDITIONAL EROSION CONTROL BARRIERS SHALL BE INSTALLED AT THE DIRECTION OF THE ENGINEER TO MINIMIZE THE THREAT OF ADVERSE IMPACT DURING THE CONSTRUCTION PROCESS. AN ADEQUATE SUPPLY OF REPLACEMENT EROSION CONTROL BARRIERS WILL BE AVAILABLE ON-SITE FOR EMERGENCY PURPOSES.
8. PERIODIC INSPECTION, MAINTENANCE, AND CLEANING OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND BMPs ARE REQUIRED. ALL CONTROLS AND BMPs SHALL BE INSPECTED EVERY 7 DAYS AND WITHIN 24 HOURS OF RAINFALL EVENTS OF 0.5 INCHES OR GREATER. ROUTINE INSPECTION AND MAINTENANCE WILL REDUCE THE CHANCE OF POLLUTING STORMWATER BY FINDING AND CORRECTING PROBLEMS BEFORE THE NEXT RAIN EVENT. THE CONTRACTOR WILL BE REQUIRED TO KEEP A WRITTEN, UPDATED SITE MAINTENANCE LOG DOCUMENTING INSPECTION AND MAINTENANCE ACTIVITY.
9. CONTRACTOR SHALL PROVIDE AND MAINTAIN TURBIDITY CURTAINS AND IS RESPONSIBLE FOR DETERMINING LAYOUT AND INSTALLATION PROCEDURES IN ACCORDANCE WITH CONTRACT DOCUMENTS.
10. TURBIDITY CURTAINS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS.
11. CONTRACTOR SHALL PREPARE THE SITE PRIOR TO IMPENDING STORM EVENTS AND RESTORE THE SEDIMENTATION / EROSION CONTROL MEASURES AFTERWARD.



TEMPORARY SEDIMENTATION & EROSION CONTROL BARRIER COMPOST FILTER SOCK/TUBE

#### NOTES:

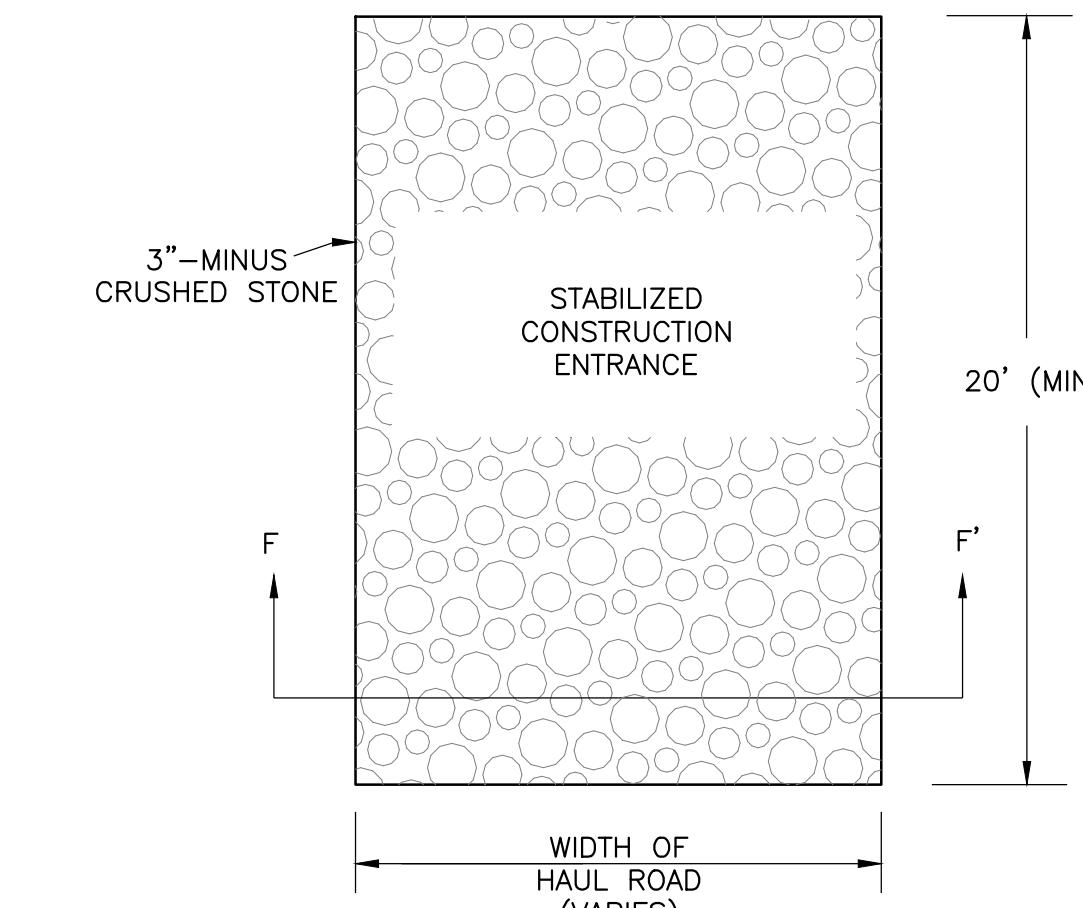
1. FILTER SOCK SHALL BE MADE OF 100% ORGANIC HESSIAN FABRIC (BURLAP) OR BIO-DEGRADABLE 5 MIL HDPE (NO LONGER THAN 6 MONTHS). REPLACEMENT NEEDED AFTER 6 MONTHS.
2. ORGANIC MATTER CONTENT SHALL BE BETWEEN 20-100% (DRY WEIGHT BASIS) AS DETERMINED BY ASTM D2974 (METHOD A) STANDARD TEST METHODS FOR MOISTURE, ASH, AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS.
3. MOISTURE CONTENT SHALL BE <150% BY DRY WEIGHT (>60% BY WET WEIGHT) AS MEASURED BY ASTM D2216 STANDARD TEST METHOD FOR LABORATORY DETERMINATION OF WATER CONTE
4. PARTICLE SIZE IS MEASURED BY SIEVING SHALL BE AS FOLLOWS:

#### SIEVE SIZE % PASSING

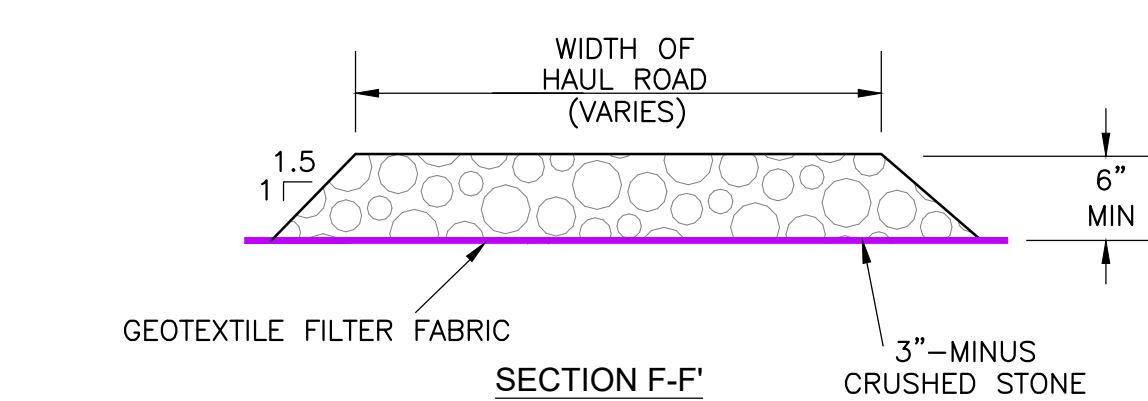
75MM	100%
19MM	70-100%
#4	30-75%
#20	20-40%

NO PARTICLE MAY BE LONGER THAN 150MM

5. SOLUBLE SALTS SHALL BE <5.0 MMHOES/CM (DS/M).
6. THE PH SHALL BE BETWEEN 5.5 AND 8.0.
7. FILTER SOCKS MUST BE PLACED PARALLEL TO CONTOUR WITH BOTH ENDS OF THE SOCK EXTENDED UPSLOPE AT A 45 DEGREE ANGLE TO THE REST OF THE SOCK TO PREVENT END-AROUNDS.
8. THE CONTRACTOR SHALL MAINTAIN THE FILTER TUBES IN A FUNCTIONAL CONDITION AT ALL TIMES, INCLUDING INSPECTIONS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
9. FOR REMOVAL, THE CONTRACTOR SHALL RAKE OUT SO THAT FILTER MATERIAL IS NO GREATER THAN 3" IN DEPTH ON SOIL SUBSTRATE.



PLAN VIEW



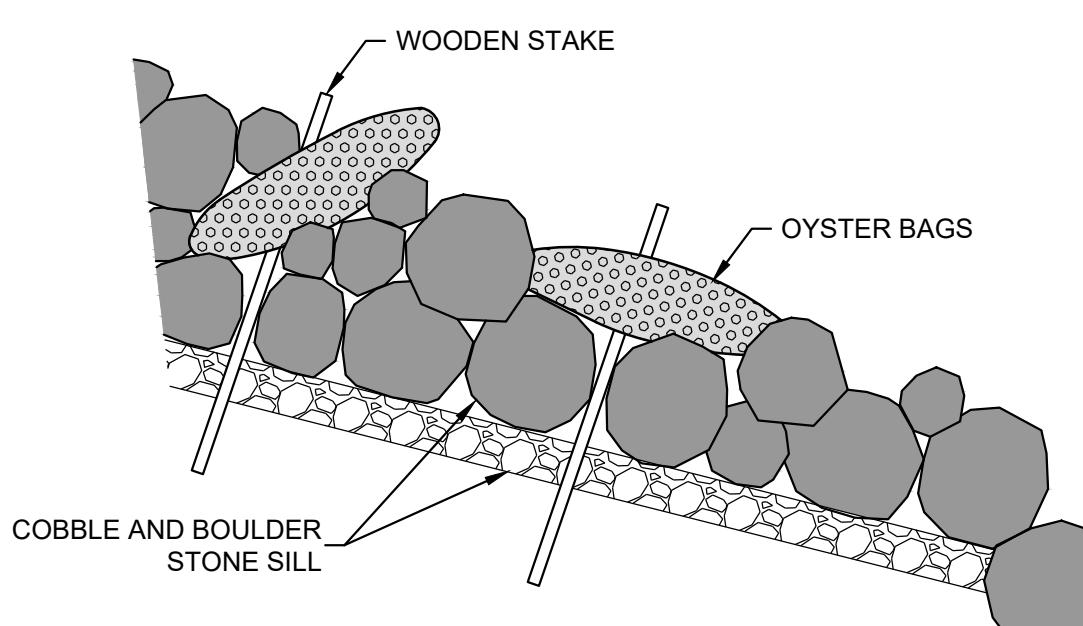
SECTION F-F'

STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOTE: REMOVE AT END OF PROJECT AND RESTORE AREA.



SCALE IN FEET

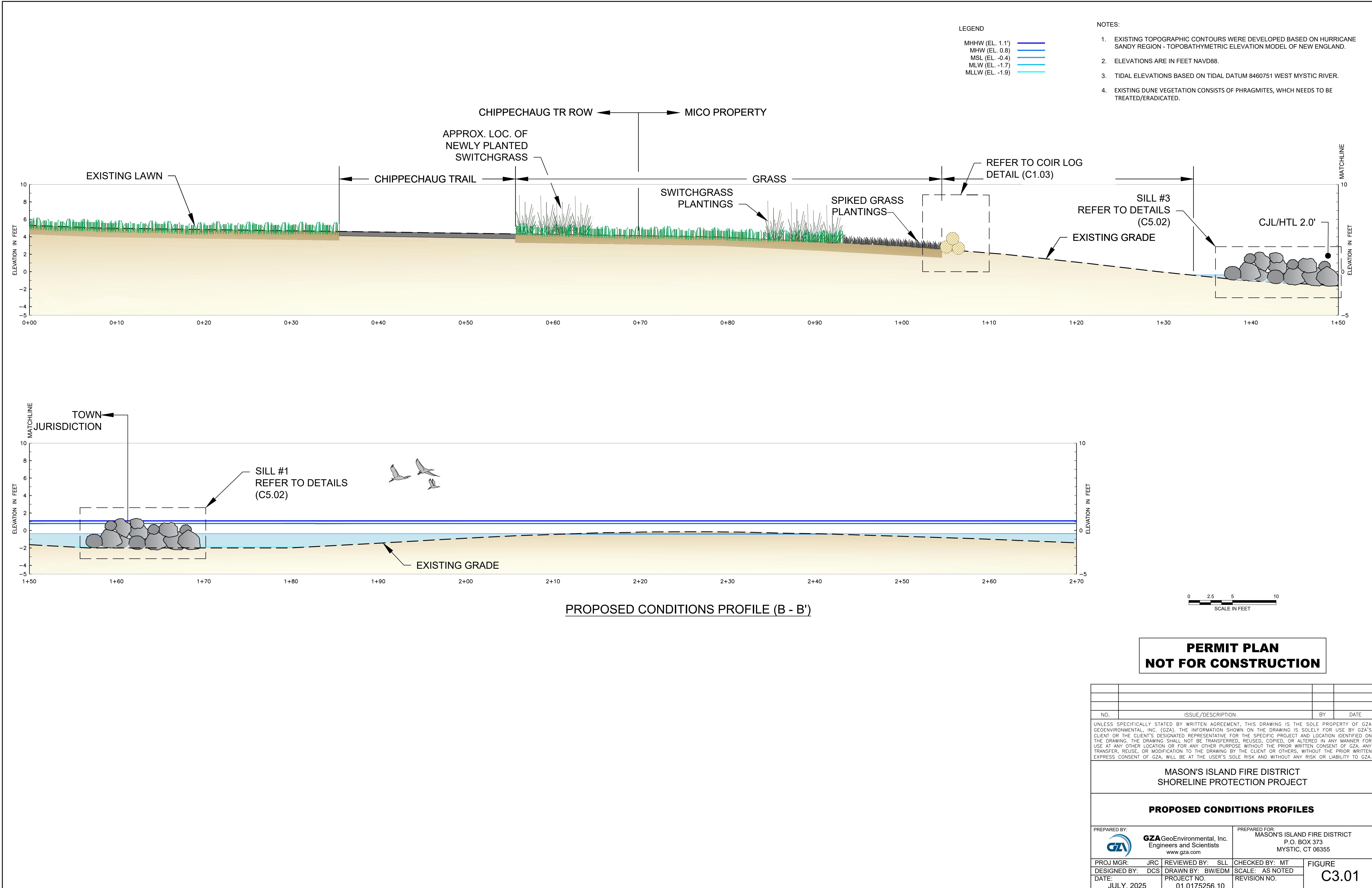


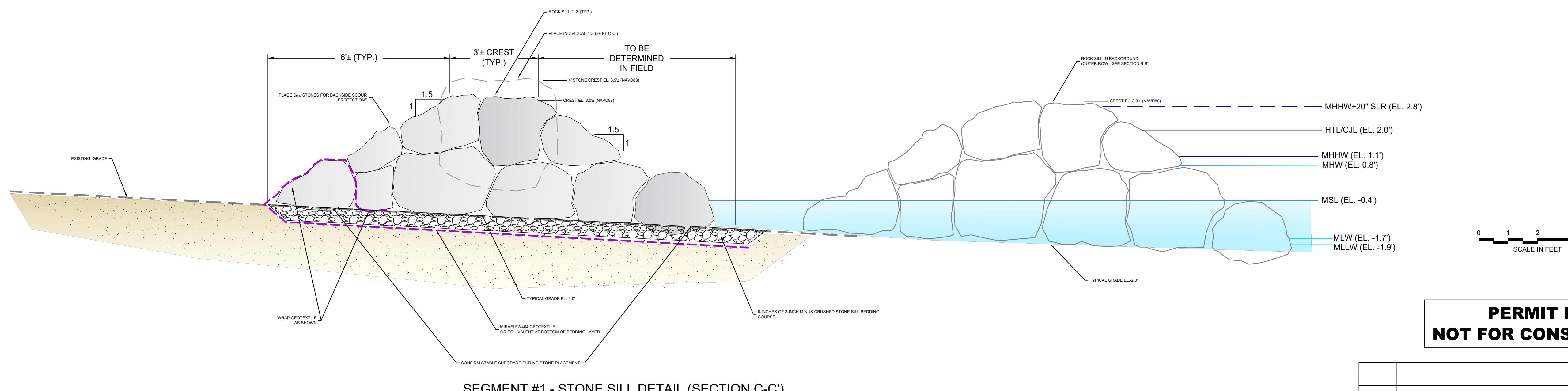
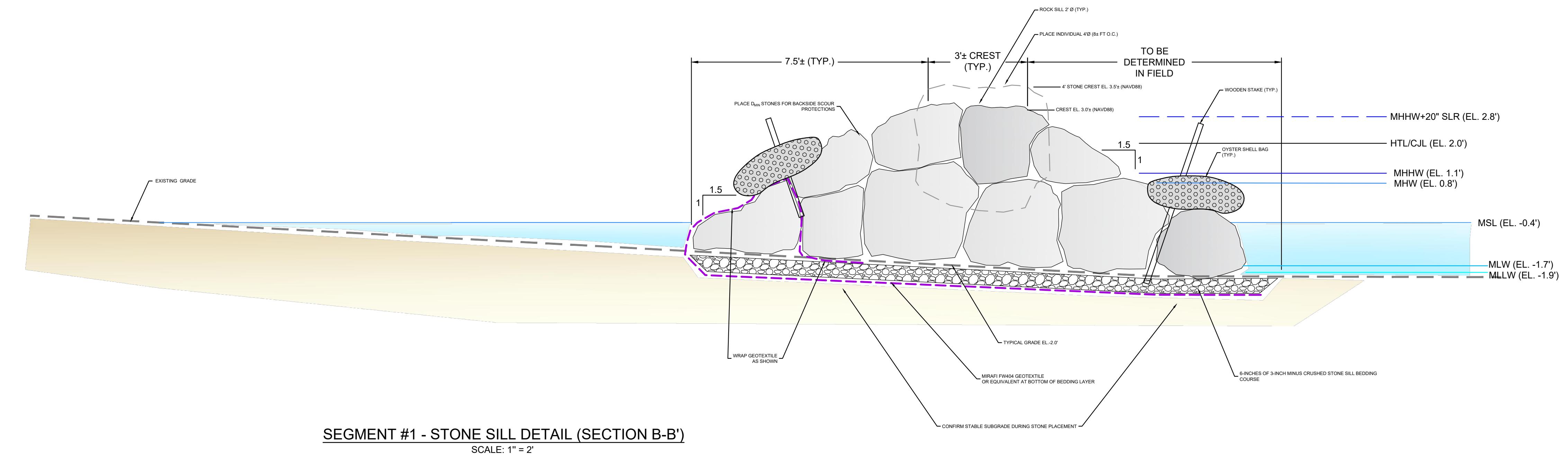
NOTE:  
OYSTER BAGS SHALL BE FIELD-PLACED INTERMITTENTLY AROUND THE ROCK SILLS. EACH BAG SHALL BE SECURELY ANCHORED TO THE ROCK SILLS USING WOODEN STAKES TO ENSURE STABILITY AND PREVENT DISPLACEMENT.

OYSTER BAG DETAIL  
NOT TO SCALE

## PERMIT PLAN NOT FOR CONSTRUCTION

NO.	ISSUE/DESCRIPTION	BY	DATE
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. IT IS NOT TO BE COPIED, REPRODUCED, OR USED FOR ANY OTHER PURPOSE, WHETHER IN WHOLE OR IN PART, OR FOR ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE, WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.			
MASON'S ISLAND FIRE DISTRICT SHORELINE PROTECTION PROJECT			
SEDIMENTATION AND EROSION CONTROL DETAILS & NOTES			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: MASON'S ISLAND FIRE DISTRICT P.O. BOX 373 MYSTIC, CT 06355	
PROJ MGR: JRC	REVIEWED BY: SLL	CHECKED BY: MT	FIGURE C1.03
DESIGNED BY: DCS	DRAWN BY: BW/EDM	SCALE: AS NOTED	
DATE: JULY, 2025	PROJECT NO. 01.0175256.10	REVISION NO.	





**PERMIT PLAN  
NOT FOR CONSTRUCTION**

NO.	ISSUE/DESCRIPTION	BY	DATE
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	MASON'S ISLAND FIRE DISTRICT		
	SHORELINE PROTECTION PROJECT		
	<b>PROPOSED MARSH SILL DETAILS</b>		
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR:	MASON'S ISLAND FIRE DISTRICT P.O. Box 373 Mystic, CT 06355
PROJ MGR: JRC	REVIEWED BY: SLL	CHECKED BY: MT	FIGURE
DESIGNED BY: DCS	DRAWN BY: BW/EDM	SCALE: AS NOTED	C5.01
DATE: JULY, 2025	PROJECT NO. 01.0175256.10	REVISION NO.	

**NOTES:**

1. WETLAND SILL TO CONSIST OF ROUGH, ANGULAR GRANITE QUARRYSTONE ARMOR STONE.
2. SILL SHALL BE CONSTRUCTED TO THE DIMENSIONS AND ELEVATIONS INDICATED ON THE DETAIL. CERTAIN DIMENSIONS TO BE FIELD-CONFIRMED.
3. STONES SHALL RANDOMLY BE DISTRIBUTED AND CLOSELY PLACED TO 1) MAXIMIZE STONE TO STONE POINT CONTACT; 2) CREATE A CORE USING PRIMARILY  $D_{50}$  STONE; 3)  $D_{MAX}$  TOE STONES AT SEAWARD SIDE; 4) USING  $D_{50}$  STONE TO FILL ANNULAR SPACES; AND 5) HAVE EXTERIOR ARMOR LAYER OF  $D_{MAX}$  AND  $D_{50}$  STONE. OYSTER SHELL BAGS TO BE FIELD PLACED. INSTALL 6 OYSTER BAGS FOR EACH STONE SILL.
4. NOMINAL DIMENSIONS:  $D_{50}$  2 FEET;  $D_{MAX}$  4 FEET; AND  $D_{MIN}$  1.8 FEET. ALL DIMENSIONS APPROXIMATE. REFER TO MATERIAL SPECIFICATIONS FOR MORE INFORMATION.
5. LARGER STONES UP TO 4 FEET IN DIAMETER MAY BE USED AS ARMOR STONES, WHICH NEED TO HAND-PLACED AT APPROXIMATELY 8 FEET O.C. AND NEAR THE TOE OF THE SILL, TO IMPROVE STABILITY.
6. CONNECTICUT SEA LEVEL RISE OF 20 INCHES FOR YEAR 2050 SHOWN FOR REFERENCE.



**US Army Corps  
of Engineers®**  
New England District

**WORK-START NOTIFICATION FORM**  
(Minimum Notice: Two weeks before work begins)

\*\*\*\*\*  
EMAIL TO: [cenae-r-ct@usace.army.mil](mailto:cenae-r-ct@usace.army.mil); or

MAIL TO: Regulatory Division  
CT & RI Section  
US Army Corps of Engineers, New England District  
696 Virginia Road  
Concord, Massachusetts 01742-2751

\*\*\*\*\*

A US Army Corps of Engineers authorization, file number NAE-2023-01708 was issued to Bill Pryor, President, Mason's Island Property Owners Association. The permit authorized the installation of approximately 2,460 square feet of submerged stone sills and deflection boulders on Mason's Island within Chippechaug Cove in Stonington, Connecticut.

The people (e.g., contractor) listed below will do the work, and they understand the permit's conditions and limitations.

**PLEASE PRINT OR TYPE**

**Name of Person/Firm:** \_\_\_\_\_

**Business Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Phone:** (\_\_\_\_) \_\_\_\_\_ (\_\_\_\_) \_\_\_\_\_

**Email:** \_\_\_\_\_

**Proposed Work Dates:** Start \_\_\_\_\_ Finish \_\_\_\_\_

**Permittee/Agent Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Printed Name:** \_\_\_\_\_ **Title:** \_\_\_\_\_

**Date Permit Issued:** \_\_\_\_\_ **Date Permit Expires:** \_\_\_\_\_

\*\*\*\*\*

**FOR USE BY THE ARMY CORPS OF ENGINEERS**

**PM:** \_\_\_\_\_ **Veinotte** \_\_\_\_\_ **Submittals Required:** \_\_\_\_\_ **See Letter** \_\_\_\_\_

**Inspection Recommendation:** \_\_\_\_\_

U.S. Army Corps of Engineers (USACE)

## CERTIFICATION OF COMPLIANCE WITH DEPARTMENT OF THE ARMY PERMIT

For use of this form, see Section 404 of the Clean Water Act, Section 10 of the Rivers and Harbors Act of 1899, and Section 103 of the Marine Protection, Research, and Sanctuaries Act; the proponent agency is CECW-COR.

*Form Approved -*  
**OMB No. 0710-0003**  
**Expires 2027-10-31**

## The Agency Disclosure Notice (ADN)

The Public reporting burden for this collection of information, 0710-0003, is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at [whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil](mailto:whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

**PURPOSE:** This form is used by recipients of U.S. Army Corps of Engineer Regulatory permits to certify compliance with the permit terms and conditions.

Your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit, you are subject to permit suspension, modification, or revocation.

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the U.S. Army Corps of Engineers, New England District, Regulatory Office.

The certification can be submitted by email at [cenae-r-ct@usace.army.mil](mailto:cenae-r-ct@usace.army.mil) or by mail at the below address:

U.S. Army Corps of Engineers  
New England District Office  
Street Address: 696 Virginia Road  
City: Concord      State: MA    Zip Code: 01742

**COMPLETED BY THE CORPS**

Corps Action Number:	NAE-2025-01683
Permit Type:	General Permit
General Permit Number and Name ( <i>if applicable</i> ):	#9
Name of Permittee:	Bill Pryor, President
Project Name:	Mason's Island Property Owners Association
Project Location ( <i>physical address</i> ):	41.3322°, -71.963201° Stonington, Connecticut 06437

**PERMITTEE'S CERTIFICATION**

Date Work Started:

Date Work Completed:

Enclose photographs showing the completed project (*if available*).

I \_\_\_\_\_ hereby certify that the work authorized by the above referenced permit has been completed in accordance with all of the permit terms and conditions, and that any required compensatory mitigation has been completed in accordance with the permit conditions.

Name \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_