



**US Army Corps
of Engineers**®
New England District
696 Virginia Road
Concord, MA 01742-2751

PUBLIC NOTICE

Comment Period Begins: December 14, 2021

Comment Period Ends: January 14, 2022

File Number: NAE-2016-02487

In Reply Refer To: Cori M. Rose

Phone: (978) 318-8306

E-mail cori.m.rose@usace.army.mil

The District Engineer has received a permit application to conduct work in waters of the United States from the **CITY OF NEW HAVEN, 200 ORANGE STREET #503, NEW HAVEN, CONNECTICUT 06510**. This work is proposed in waters and wetlands at East Shore Park, New Haven Harbor, Long Island Sound at 300 Woodward Avenue, New Haven, Connecticut 06512. The site coordinates are: Latitude 41.27662° N and -72.903120° W.

The work involves the discharge of temporary and permanent fill below the high tide line (HTL) for the installation of a living shoreline.

The project will include the following components:

- Removal of two (2) existing boulder revetments from a 4,200 square foot area, 640 square feet of which is below the HTL. The stone from the revetments will be repurposed in construction of existing revetment returns and new engineered stone sills.
- Construction of new revetment returns at the terminus of two (2) existing stone revetments over a 2,900 square foot area. The new construction will result in excavation and stone fill over a 440 square foot area below the HTL. The returns will repurpose boulders from the removal of two (2) existing boulder revetments and are intended to tie the existing revetment into the newly graded shoreline to prevent failure.
- Installation of 28 rock sills of variable length (between 24-feet and 60-feet long) in a tiered, staggered configuration extending along a 1,130 linear foot section of shoreline. Fill for the sills will consist of 2,600 cubic yards of gravel subbase and rock over an estimated area of 0.30-acre (13,000 square feet) below the HTL. The primary purpose of the sills is to dissipate energy before it reaches the shoreline and to encourage natural sediment retention behind the sills that can promote establishment or retention of tidal wetland vegetation.
- Establishment and/or restoration of 0.90-acre (39,400 square feet) of intertidal salt marsh landward of the new rock sills and waterward of the newly grade shoreline toe.
- Relocate an existing paved walkway landward of the top of slope and regrade approximately 2800 linear feet of shoreline to a slope of 1 vertical to 5 horizontal. This activity will result in approximately 2.83-acre (123,400 square feet) of excavation and a discharge of approximately 200 cubic yards of fill over a 0.44-acre (19,200 square foot) area in the form of grading for establishment of intertidal salt marsh planting areas below the HTL. The newly graded slope will be stabilized with biodegradable geotextile fabric and vegetated with salt-tolerant native plants (refer to sheet 22 of 22). The purpose of the grading is to provide stability and improve the resiliency of the shoreline to better withstand coastal energy. A new public access pathway with access to the beach front will be constructed in the adjacent upland and will replace the walkways that will be removed.

- Install a coir log toe at the base of the regraded slope over a 1,840 linear foot area at an approximate elevation of +4.4-feet North American Vertical Datum (NAVD) 88. The purpose of the coir logs is to stabilize the toe of the newly graded slope.
- Fill approximately 310 square feet of freshwater wetland (mowed and managed as turf grass) for installation and alignment of a new walking path.
- Mechanical excavation to remove invasive *Phragmites australis* from the site over an estimated area of 1.77-acre (77,200 square feet). Approximately 700 square feet of the *Phragmites* removal will occur below the HTL.
- Establishment of 2.32-acres (101,100 square feet) of intertidal salt marsh through removal of fill/upland soils and the enhancement of degraded inland wetland. The new tidal wetland area will be connected to Long Island Sound through construction of a new tidal channel. An upland island area of approximately 9,500 square feet in size will be retained for public access and interpretive uses. The purpose of this work is to enhance ecological function of the resource area and integrate passive recreational uses with the aquatic environment.

The purpose of the proposed work is to establish a climate resilient design for shoreline stabilization at a popular urban park while enhancing the opportunity for public access and improving ecological function and continuity of the land with the water.

The work is shown on the enclosed plans entitled “EAST SHORE PARK LIVING SHORELINE”, on 22 sheets, and dated “7/15/2021”.

The proposed project is designed to enhance intertidal continuity along the existing shoreline and will create intertidal saltmarsh and/or restore intertidal saltmarsh from areas of poorly dredged material disposal that are currently dominated by invasive common reed (*Phragmites australis*).

AUTHORITY

Permits are required pursuant to:

- ☒ Section 10 of the Rivers and Harbors Act of 1899
- ☒ Section 404 of the Clean Water Act
- ☐ Section 103 of the Marine Protection, Research and Sanctuaries Act.

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which may reasonably accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, cultural value, fish and wildlife values, flood hazards, flood plain value, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers, New England District (USACE), is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. The USACE will consider all comments received to

determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Where the activity involves the discharge of dredged or fill material into waters of the United States or the transportation of dredged material for the purpose of disposing it in ocean waters, the evaluation of the impact of the activity in the public interest will also include application of the guidelines promulgated by the Administrator, U.S Environmental Protection Agency, under authority of Section 404(b) of the Clean Water Act, and/or Section 103 of the Marine Protection Research and Sanctuaries Act of 1972, as amended.

ESSENTIAL FISH HABITAT

The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996 (Public Law 104-267), requires all federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH). Essential Fish Habitat describes waters and substrate necessary for fish for spawning, breeding, feeding or growth to maturity.

This project will impact approximately 1.20 acres of EFH for managed fish species with EFH designated through the New England & Mid-Atlantic Fishery Management Councils. The 3,000 linear feet project site consists of a variety of intertidal and subtidal habitat zones. The southern point consists of dynamic coarse sandy beach interspersed with rocks and small boulders. There are several small (less than 1,000 sq. ft.) remnant areas of tidal wetland dominated by smooth cordgrass (*Spartina alterniflora*) just below mean high water and areas with sparse to moderate macrophytic algae with increasing density to the south. The central cove consists of silt and fine-grained sand with scattered rocks and a single relict area of salt marsh peat. Macrophytic algae is moderately dense with the presence of species including devil's tongue weed, sea lettuce, grass kelp, *Gracilaria tikvahiae*, and sugar kelp (*Saccharina latissima*). The central beach is similar to the southern section with a coarse sandy beach interspersed with rocks. Topography is relatively flat. At the MHW line, two deposits of peat exist, one approximately 10,000 sq. ft. in size and the other around 13,500 sq. ft. The northern area also consists of a coarse beach community, but it exhibited several disturbance vectors including a stormwater outfall and the East Shore Wastewater treatment plant. Loss of this habitat may adversely affect species that use these waters and substrate. However, the District Engineer has made a preliminary determination that the site-specific adverse effect will not be substantial. Further consultation with the National Marine Fisheries Service regarding EFH conservation recommendations is being conducted and will be concluded prior to the final decision.

NATIONAL HISTORIC PRESERVATION ACT

Based on his initial review, the District Engineer has determined that little likelihood exists for the proposed work to impinge upon properties with cultural or Native American significance, or listed in, or eligible for listing in, the National Register of Historic Places. The nearest known resource is Fort Nathan Hale, approximately 0.38 miles to the south. Therefore, no further consideration of the requirements of Section 106 of the National Historic Preservation Act of 1966, as amended, is necessary. This determination is based upon one

or more of the following:

- a. The permit area has been extensively modified by previous work.
- b. The permit area has been recently created.
- c. The proposed activity is of limited nature and scope.
- d. Review of the latest published version of the National Register shows that no presence of registered properties listed as being eligible for inclusion therein are in the permit area or general vicinity.
- e. Coordination with the State Historic Preservation Officer and/or Tribal Historic Preservation Officer(s).

ENDANGERED SPECIES CONSULTATION

The USACE has reviewed the application for the potential impact on Federally-listed threatened or endangered species and their designated critical habitat pursuant to section 7 of the Endangered Species Act as amended. It is our preliminary determination that the proposed activity for which authorization is being sought is designed, situated or will be operated/used in such a manner that it is not likely to adversely affect a listed species or their critical habitat. We are coordinating with the National Marine Fisheries Service and/or U.S. Fish and Wildlife Service on listed species under their jurisdiction and the ESA consultation will be concluded prior to the final decision.

OTHER GOVERNMENT AUTHORIZATIONS

The states of Connecticut, Maine, Massachusetts, New Hampshire and Rhode Island have approved Coastal Zone Management Programs. Where applicable, the applicant states that any proposed activity will comply with and will be conducted in a manner that is consistent with the approved Coastal Zone Management Program. By this Public Notice, we are requesting the State concurrence or objection to the applicant's consistency statement.

The following authorizations have been applied for, or have been, or will be obtained:

- (X) Permit, license or assent from State.
- () Permit from local wetland agency or conservation commission.
- (X) Water Quality Certification in accordance with Section 401 of the Clean Water Act.

COMMENTS

In order to properly evaluate the proposal, we are seeking public comment. Anyone wishing to comment is encouraged to do so. Comments should be submitted in writing by the above date. If you have any questions, please contact Ms. Cori M. Rose at (978) 318-8306, (800) 343-4789 or (800) 362-4367, if calling from within Massachusetts.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider the application. Requests for a public hearing shall specifically state the reasons for holding a public hearing. The USACE holds public hearings for the purpose of obtaining public comments when that is the best means for understanding a wide variety of concerns from a diverse segment of the public.

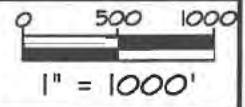
The initial determinations made herein will be reviewed in light of facts submitted in response to this notice. All comments will be considered a matter of public record. Copies of letters of objection will be forwarded to the applicant who will normally be requested to contact objectors directly in an effort to reach an understanding.

THIS NOTICE IS NOT AN AUTHORIZATION TO DO ANY WORK.

Kevin R Kotelly

Kevin R. Kotelly, P.E.
Chief, Permits and Enforcement Branch
Regulatory Division

If you would prefer not to continue receiving Public Notices by email, please contact Ms. Tina Chaisson at (978) 318-8058 or e-mail her at bettina.m.chaisson@usace.army.mil.



OWNER:

- 1. CITY OF NEW HAVEN - PARKS DEPARTMENT - 720 EDGEWOOD AVE, NEW HAVEN, CT, 06515

ADJACENT PROPERTY OWNERS:

- 2. CITY OF NEW HAVEN (WPCA) - 165 CHURCH STREET, NEW HAVEN, CT 06510
- 3. UNITED STATES OF AMERICA - WOODWARD AVE, NEW HAVEN, CT 06512

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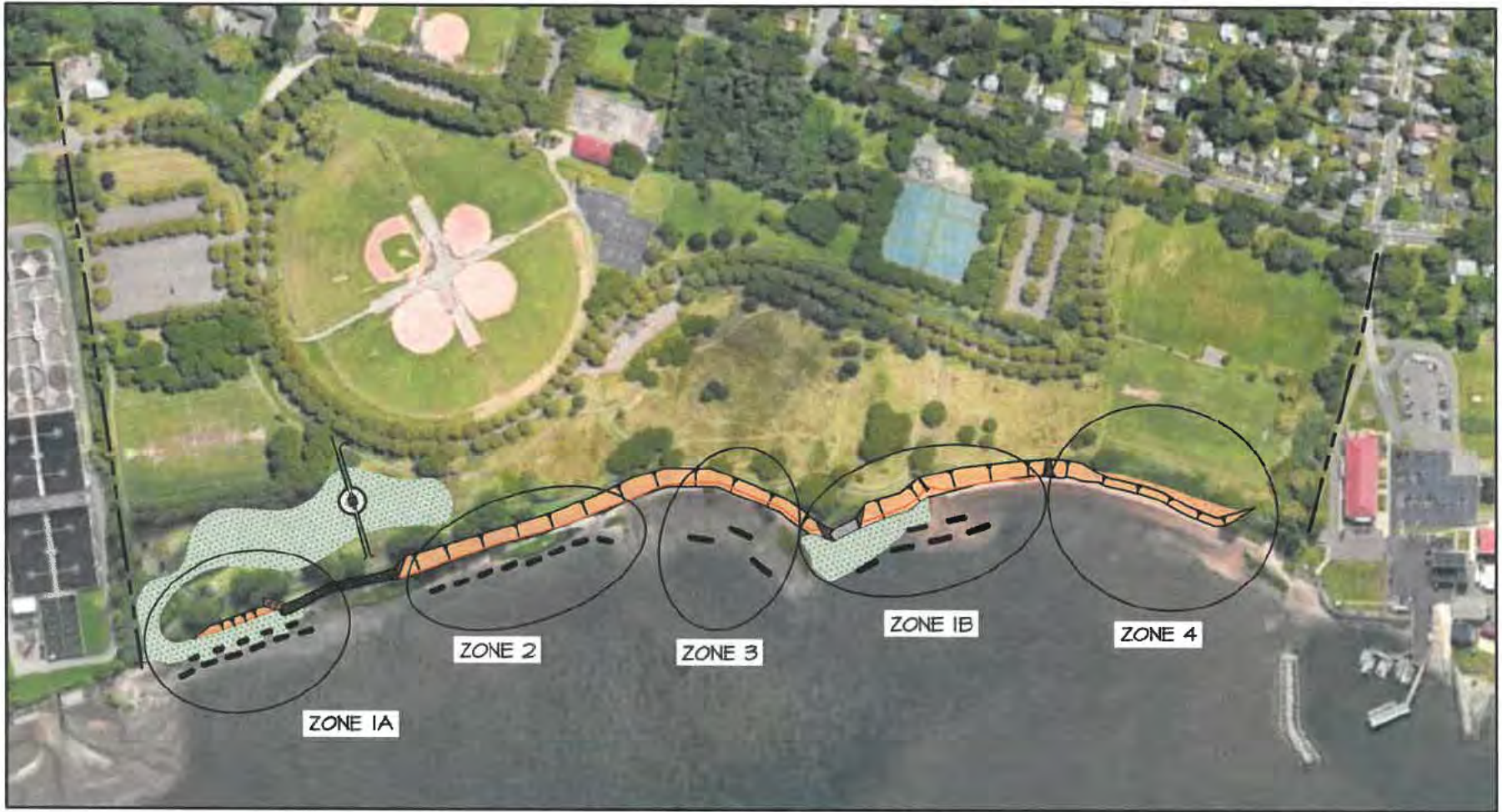
TAX ASSESSOR'S MAP

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DRAWN BY: JAP		SEAL:	PROJECT:
CHECKED BY: ADS			EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
DATUM: NAVD88			APPLICANT:
SCALE: AS SHOWN			CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510
DATE: 01/15/2021			
REV:			
PROJECT #: 2018025		NOT VALID WITHOUT ENGINEER'S SEAL	

611 Access Road Stratford, CT 06615
Tel: 203-377-0663 www.racecoastal.com

DRAWING NO. 3 of 22



ZONE 1-4 LOCATIONS

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0 100' 400'
1" = 400'

DRAWN BY:	HNS
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DATUM:	NAVD 88
SCALE:	1" = 400'
DATE:	07/15/2021
REV:	
PROJECT #:	2018025



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PROJECT:	EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:	CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

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DRAWING NO. 5 of 22

COASTAL RESOURCE LEGEND:

- COASTAL HAZARD AREA
- INLAND WETLAND/COASTAL HAZARD AREA
- DEVELOPED SHOREFRONT/COASTAL HAZARD AREA
- BEACH/COASTAL HAZARD AREA
- TIDAL WETLAND
- ROCKY SHOREFRONT
- BEACH/ESTUARINE EMBAYMENT
- ESTUARINE EMBAYMENT/SHELLFISH CONCENTRATION

SOIL LEGEND:

- UPLAND:
- 301 BEACHES-UDIPSAMMENTS COMPLEX
 - 306 UDORTHENTS-URBAN LAND COMPLEX
 - 308 UDORTHENTS, SMOOTHED
- WETLAND:
- 1 AQUEUNTS
 - 98 WESTBROOK MUCKY PEAT

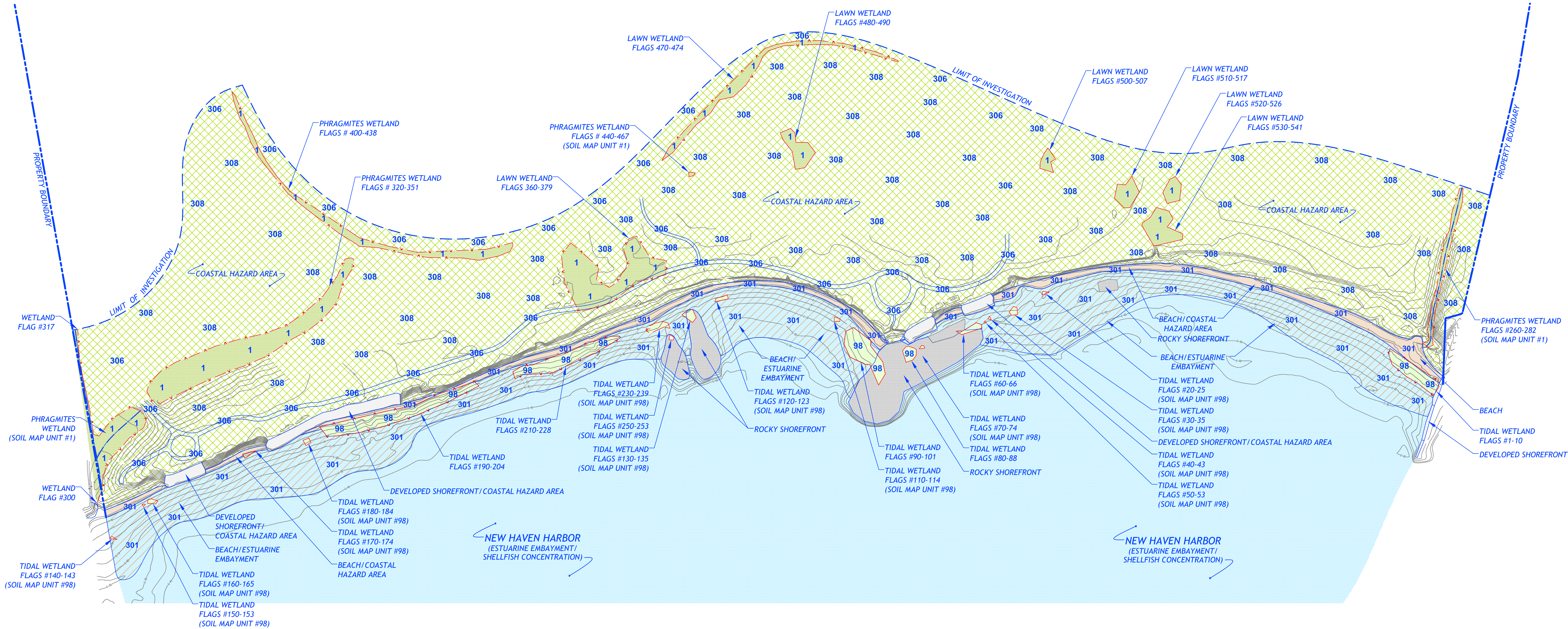
LINE SYMBOL LEGEND:

- CONTOUR LINE
- PROPERTY BOUNDARY
- LIMIT OF INVESTIGATION
- WETLAND BOUNDARY
- WATERCOURSE

WILLIAM KENNY
ASSOCIATES LLC

SOIL SCIENCE
ECOLOGICAL SERVICES
LAND USE PLANNING
LANDSCAPE ARCHITECTURE

195 TUNNIS HILL
CUTOFF SOUTH
FAIRFIELD, CT 06825
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FAX: 203 366 0067
www.wkassociates.net



- NOTES:
- INFORMATION SHOWN ON THIS DRAWING, INCLUDING THE WETLAND BOUNDARY, IS APPROXIMATE. THE BOUNDARY IS NOT A SURVEYED REPRESENTATION OF WHAT WAS FIELD MARKED (FLAGGED).
 - WETLAND AND SOIL INFORMATION PROVIDED BY WILLIAM KENNY ASSOC.
 - OTHER INFORMATION TAKEN FROM A DRAWING PREPARED BY STANTEC.
 - 301, 306, 308, 1 AND 98 ARE SOIL MAPPING UNIT SYMBOLS. SEE WETLAND DELINEATION REPORT FOR THE SOIL MAP UNIT NAMES AND ADDITIONAL RELATED INFORMATION.
 - COASTAL RESOURCES INFORMATION PROVIDED BY WILLIAM KENNY ASSOCIATES LLC.

WETLAND & WATERCOURSE & COASTAL RESOURCES MAP

LOCATION:
EAST SHORE PARK
NEW HAVEN, CONNECTICUT

DATE: MARCH 19, 2018

SCALE: AS NOTED

I CERTIFY THAT THIS WETLAND MAP
SUBSTANTIALLY REPRESENTS THE SOILS
AND WETLANDS MAPPED IN THE FIELD

William L. Kenny
WILLIAM L. KENNY, SOIL SCIENTIST

REF. NO. 3904



EAST SHORE PARK LIVING SHORELINE

DRAWING LIST



DRAWING No.	DRAWING TITLE
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19	EXISTING AND PROPOSED SECTIONS I-I
20	EXISTING AND PROPOSED SECTIONS J-J
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22	PLANTING PLAN

GENERAL NOTES:

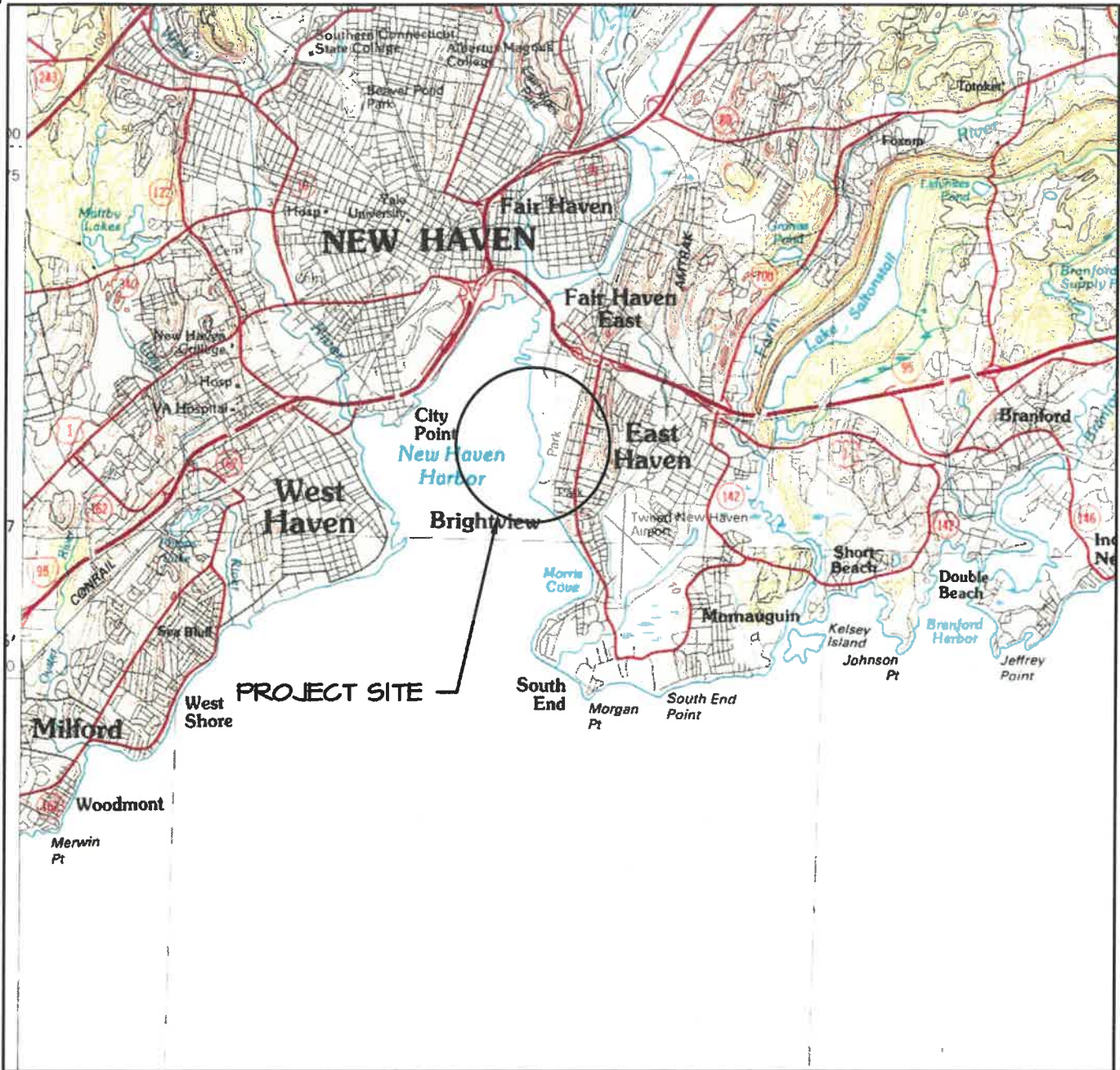
1. THE PURPOSE OF THESE DRAWINGS ARE FOR REGULATORY REVIEW ONLY.
2. VICINITY MAP TAKEN FROM THE U.S. GEOLOGICAL SURVEY 30X60 QUADRANGLE MAP.
3. ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), UNLESS NOTED OTHERWISE.
4. THIS SITE INFORMATION HAS BEEN TAKEN FROM A DRAWING TITLED "TOPOGRAPHIC SURVEY (PARTIAL) OF EAST SHORE PARK WOODWARD AVENUE - NEW HAVEN, CONNECTICUT", PREPARED FOR RACE LLC, BY GESICK & ASSOCIATES, P.C., DATED APRIL 6, 2018.
5. SUPPLEMENTARY INFORMATION OBTAINED BY RACE COASTAL ENGINEERING, LLC ON 5/30/2018 AND ONLY REPRESENT THE SITE CONDITIONS AT THAT TIME.

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DATUM: NAVD88		APPLICANT:	
SCALE: AS SHOWN		CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510	
DATE: 07/15/2021			
REV:			
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL		 <p>RACE COASTAL ENGINEERING</p> <p>611 Access Road Stratford, CT 06615 Tel: 203-377-0663 www.racecoastal.com</p>


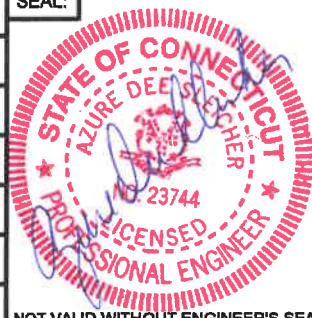
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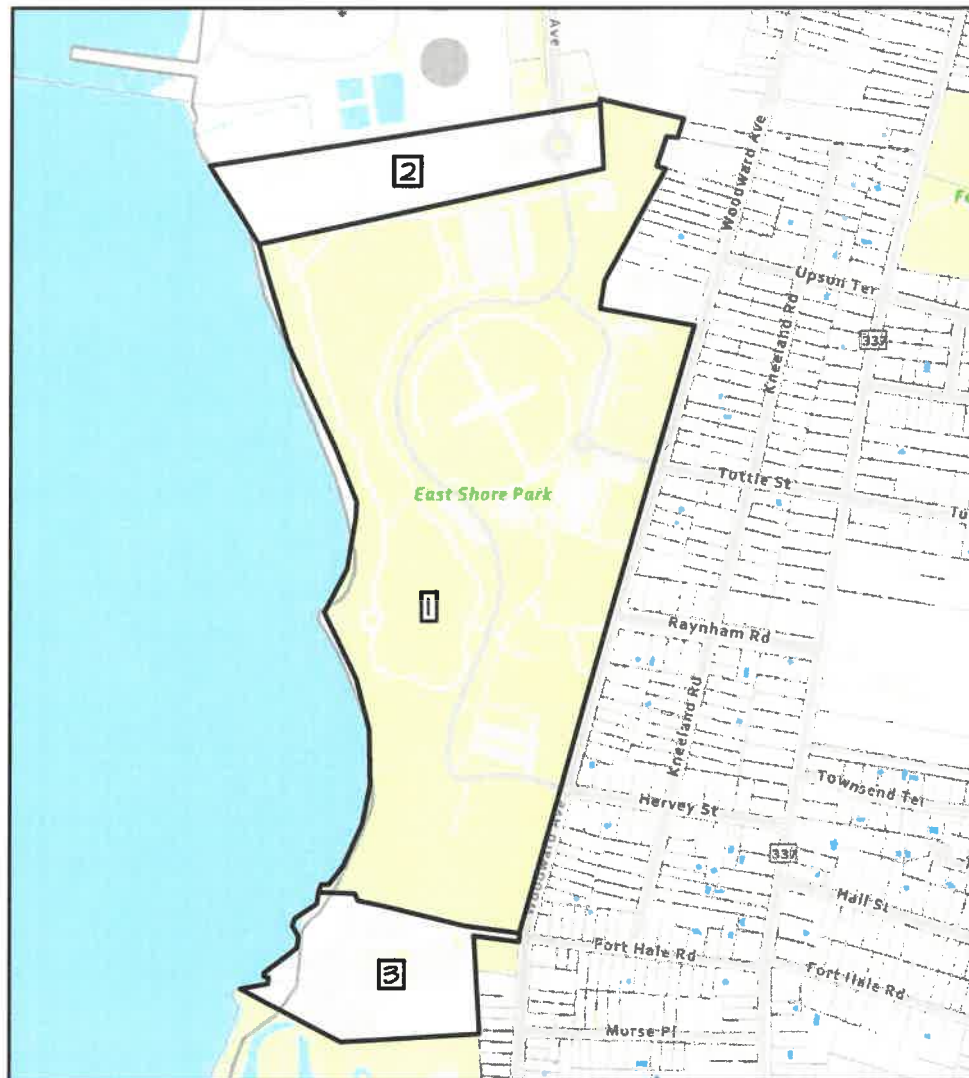
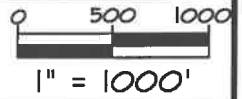


VICINITY MAP

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SCALE: AS SHOWN		CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510	
DATE: 07/15/2021			
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PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL		DRAWING NO. 2 of 22



OWNER:

1. CITY OF NEW HAVEN - PARKS DEPARTMENT - 720 EDGEWOOD AVE, NEW HAVEN, CT, 06515



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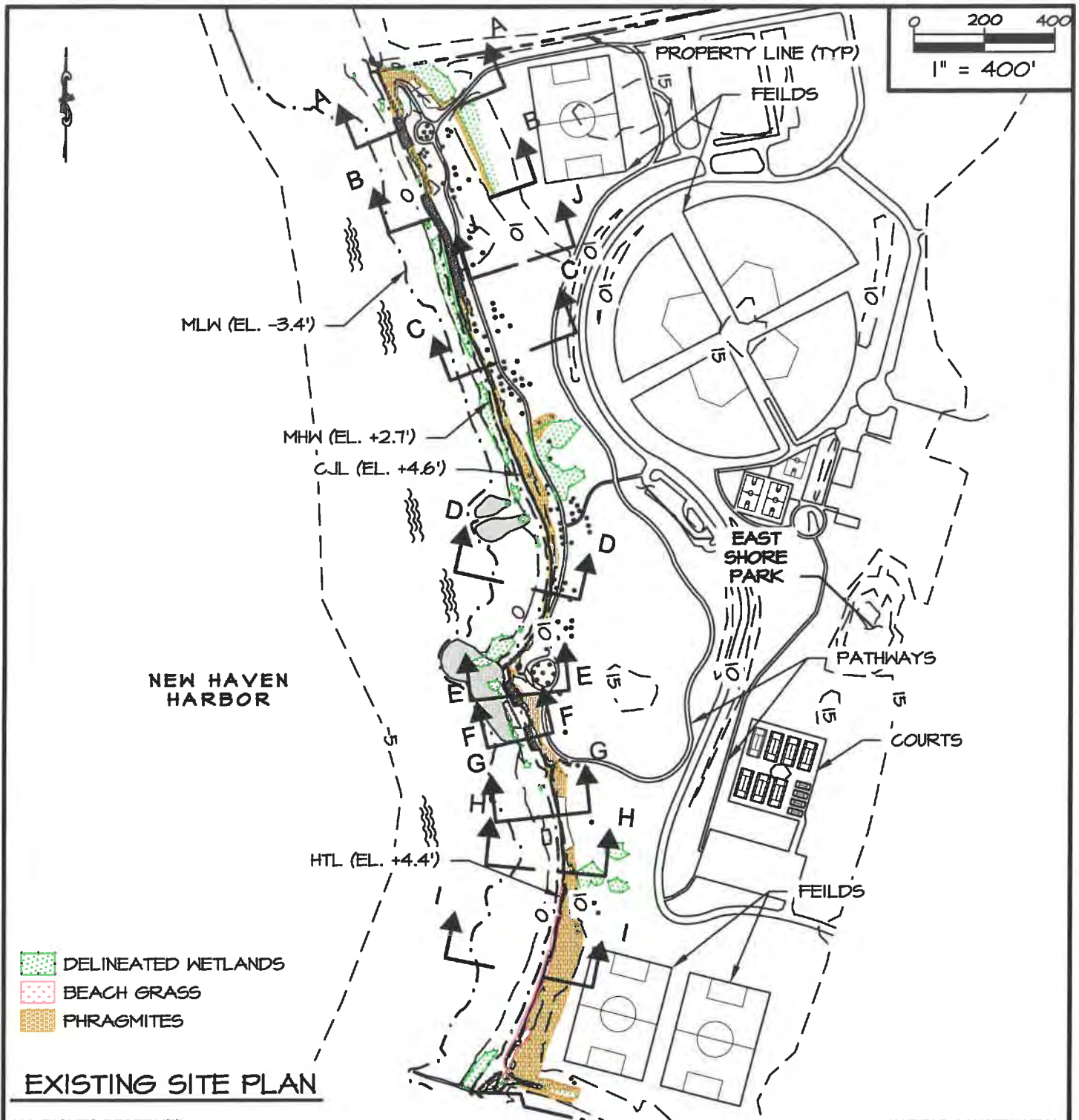
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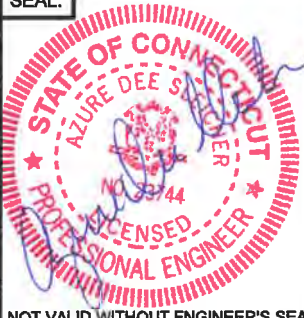
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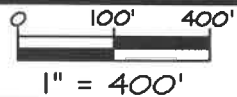
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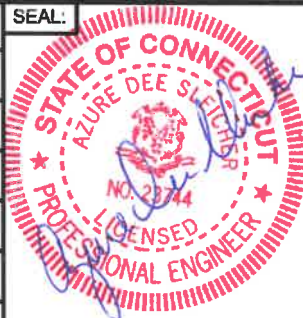
ZONE 1-4 LOCATIONS

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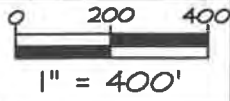
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DRAWING NO. 5 of 22

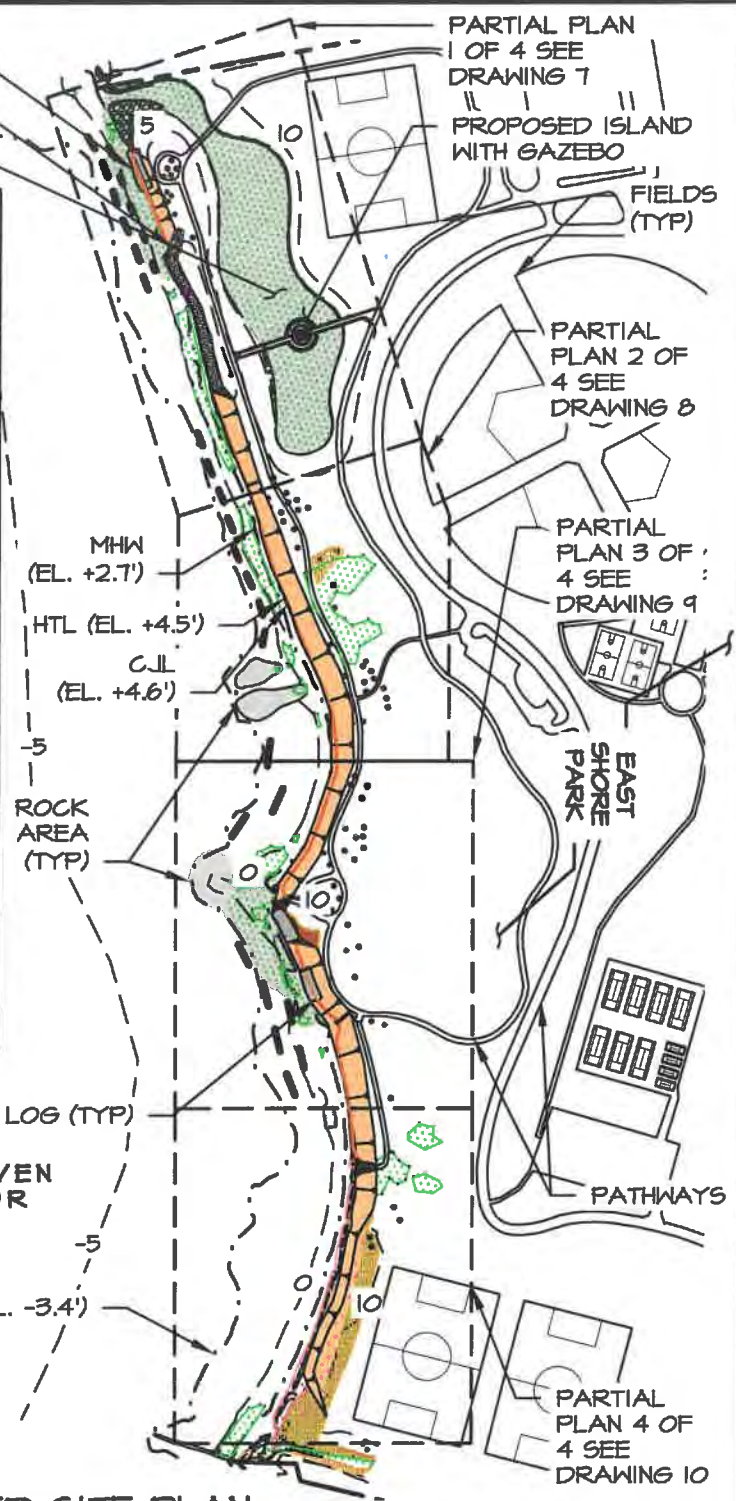


REVETMENT STONE TO BE REMOVED (TYP)
 TAPERED RETURN ON END OF EXIST. REVETMENT (TYP)
 INTERTIDAL MARSH AREA

PROPOSED WORK/REPAIR ITEM:	VOLUME (CY)	VOLUME BELOW C.J.L./HTL (CY)	AREA (SF)	AREA BELOW C.J.L./HTL (SF)
SILL	2600	2600	13000	13000
REVETMENT REMOVAL	1400	220	4200	640
SUPPLEMENT RETURN OF EXIST. REVETMENT	520	80	2900	440
SLOPE REPAIR	N/A	N/A	436900	150100
-CUT	56800	5600	374000	124300
-FILL*	2400	200	53400	19200
MARSH ENHANCEMENT	N/A	N/A	140500	140500
-TYPE A	N/A	N/A	39400	39400
-TYPE B	N/A	N/A	101100	101100
PHRAGMITES REMOVAL	N/A	N/A	77200	700
PLANTING PLAN ENHANCEMENT	N/A	N/A	62000	0
COIR LOGS	230	230	N/A	N/A

* INCLUDES FILL FOR MARSH & SLOPE REPAIR

- DELINEATED WETLANDS
- BEACH GRASS
- PHRAGMITES
- PROPOSED PHRAGMITES REMOVAL AREA
- PROPOSED INTERTIDAL MARSH AREA
- PROPOSED SLOPING BANK 5H:1V W/ BIODEGRADABLE GEOTEXTILE AND NATIVE PLANTINGS (SEE PLANTING PLAN)

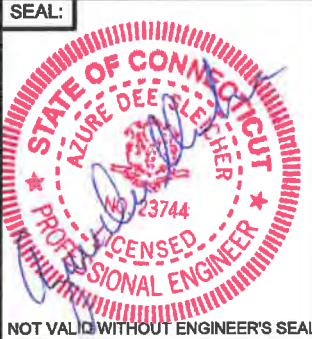


PROPOSED SITE PLAN

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 PROJECT #: 2018025



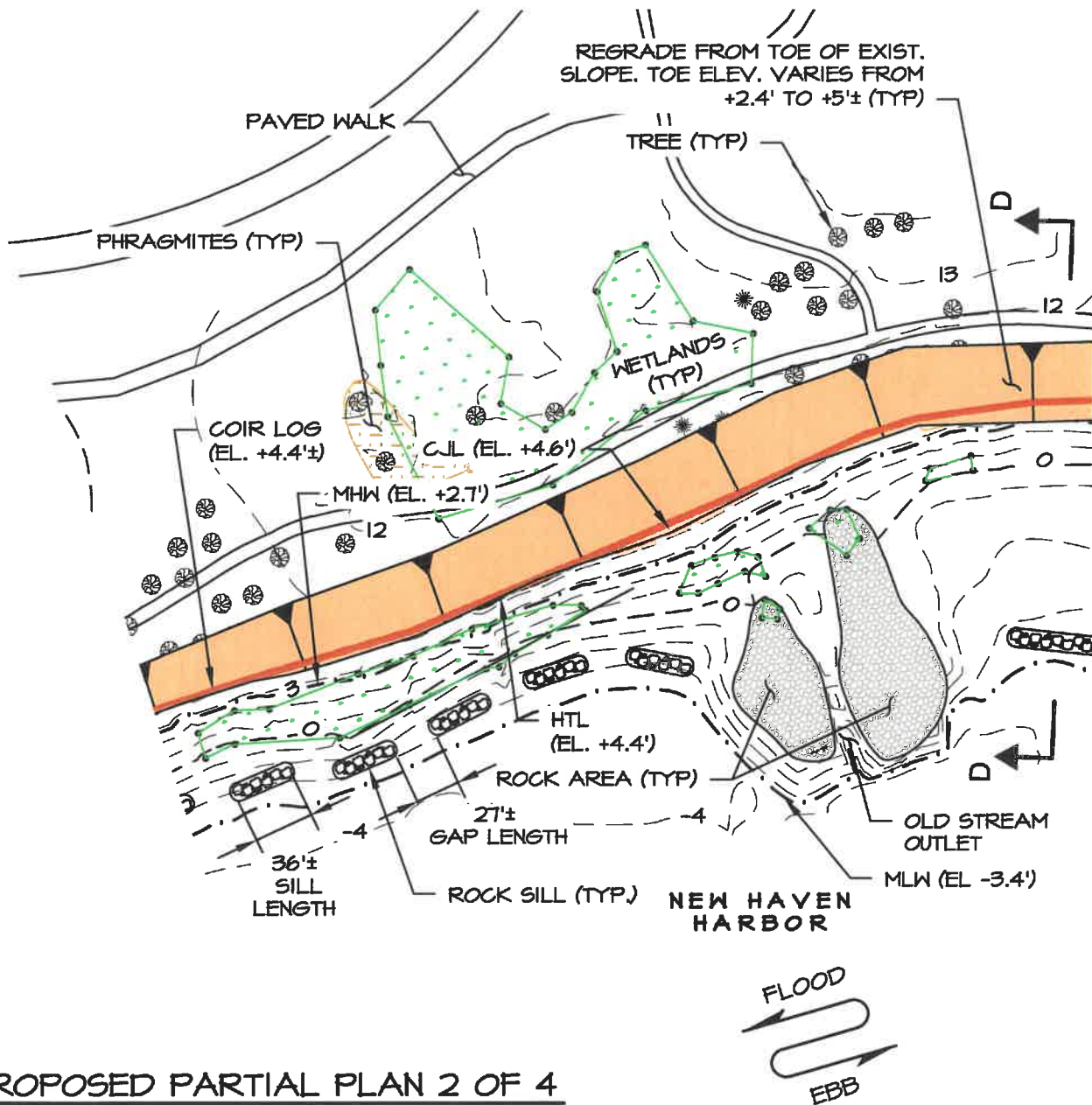
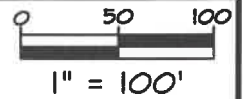
PROJECT:
 EAST SHORE PARK
 LIVING SHORELINE
 300 WOODWARD AVENUE
 NEW HAVEN, CT 06512

APPLICANT:
 CITY OF NEW HAVEN
 ENGINEERING DEPARTMENT
 200 ORANGE STREET #503
 NEW HAVEN, CT 06510

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DRAWING NO. 6 of 22



PROPOSED PARTIAL PLAN 2 OF 4

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SCALE: AS SHOWN

DATE: 07/15/2021

REV:

PROJECT #: 2018025

SEAL:



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PROJECT:

EAST SHORE PARK
LIVING SHORELINE
300 WOODWARD AVENUE
NEW HAVEN, CT 06512

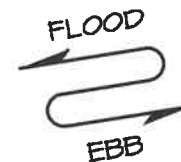
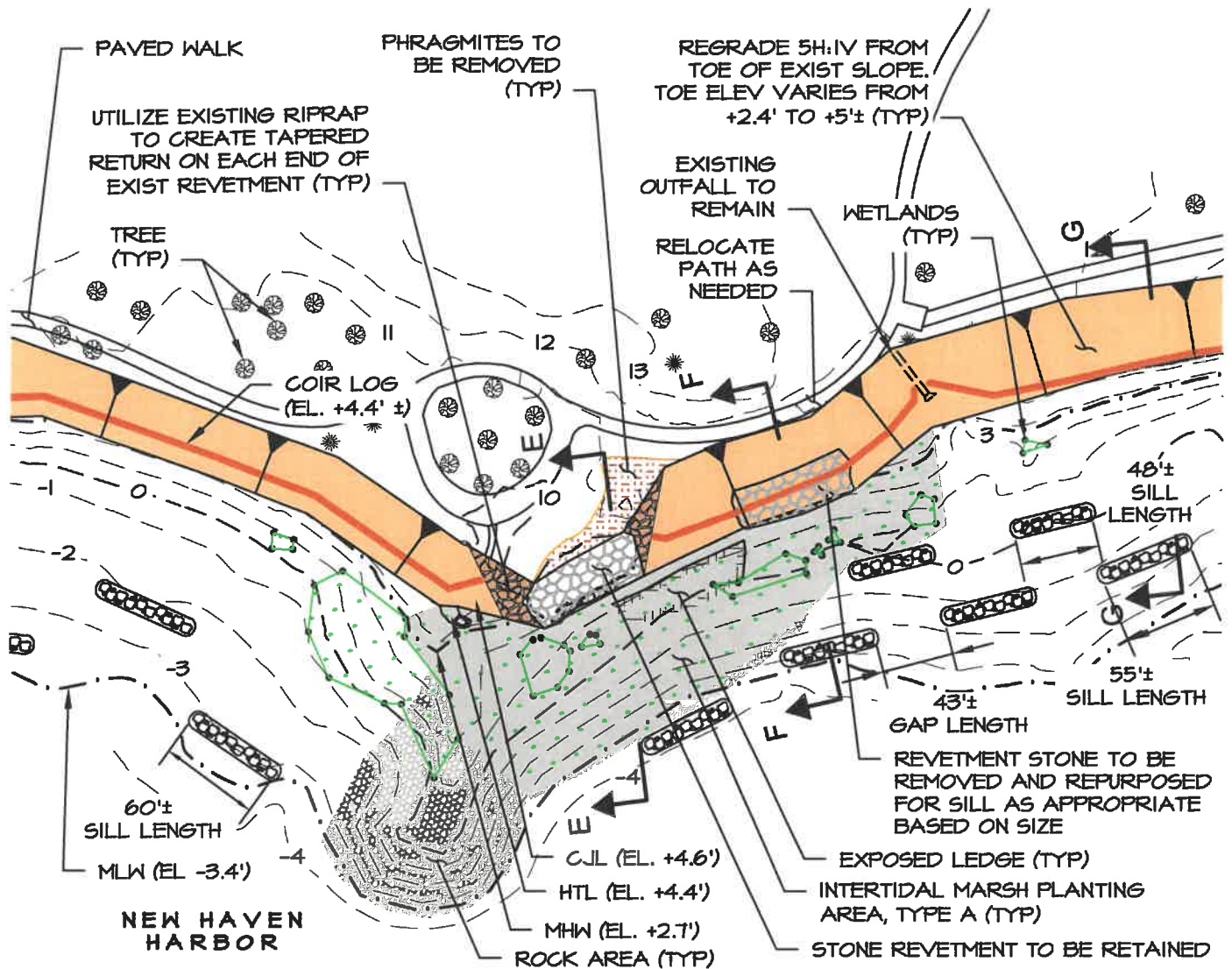
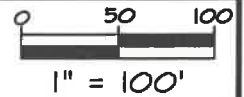
APPLICANT:

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200 ORANGE STREET #503
NEW HAVEN, CT 06510

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PROPOSED PARTIAL PLAN 3 OF 4

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SCALE: AS SHOWN

DATE: 07/15/2021

REV:

PROJECT #: 2018025

SEAL:



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PROJECT:

EAST SHORE PARK
LIVING SHORELINE
300 WOODWARD AVENUE
NEW HAVEN, CT 06512

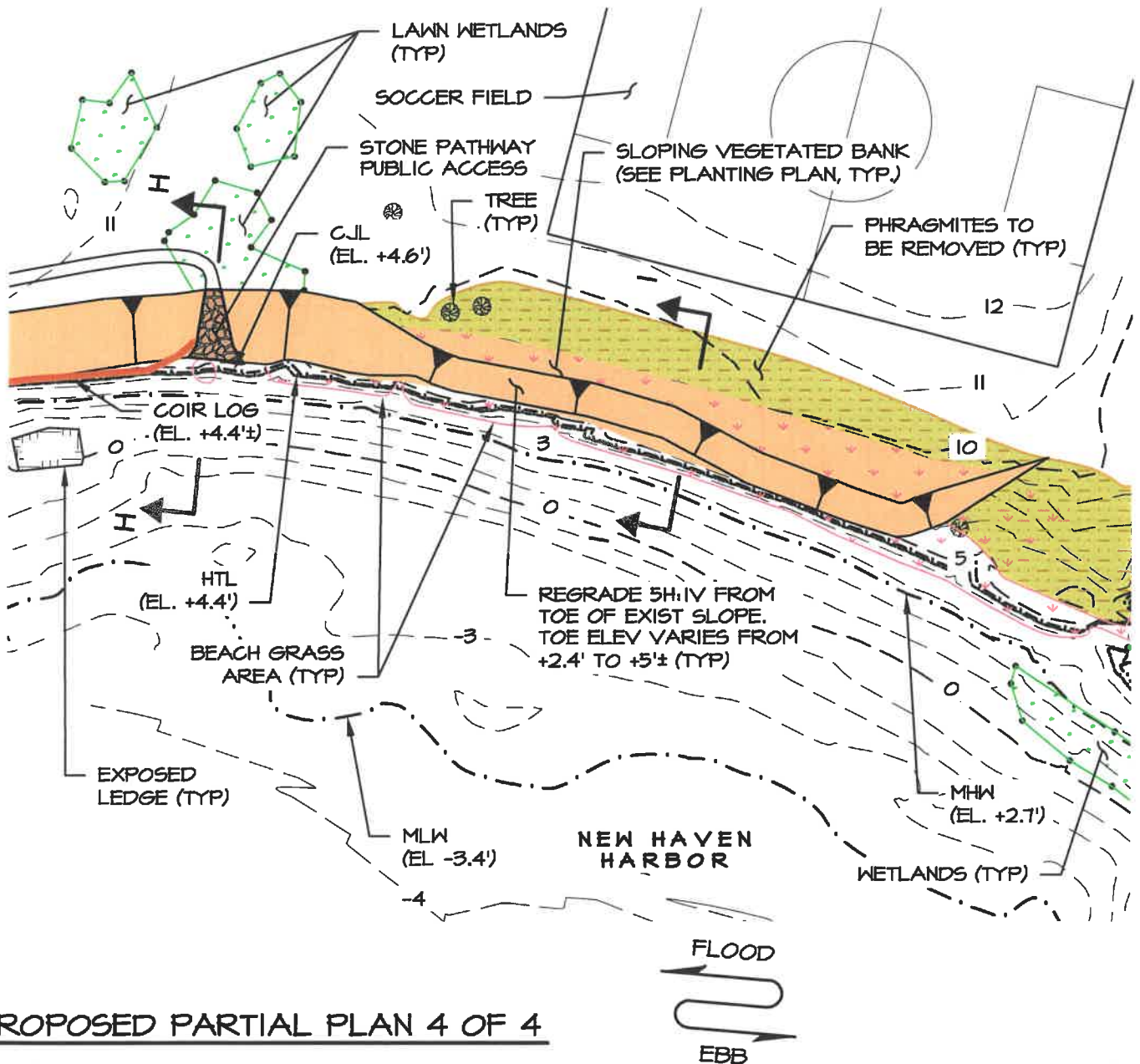
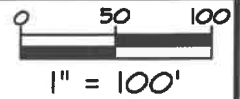
APPLICANT:

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200 ORANGE STREET #503
NEW HAVEN, CT 06510

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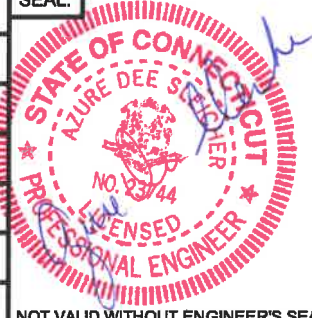
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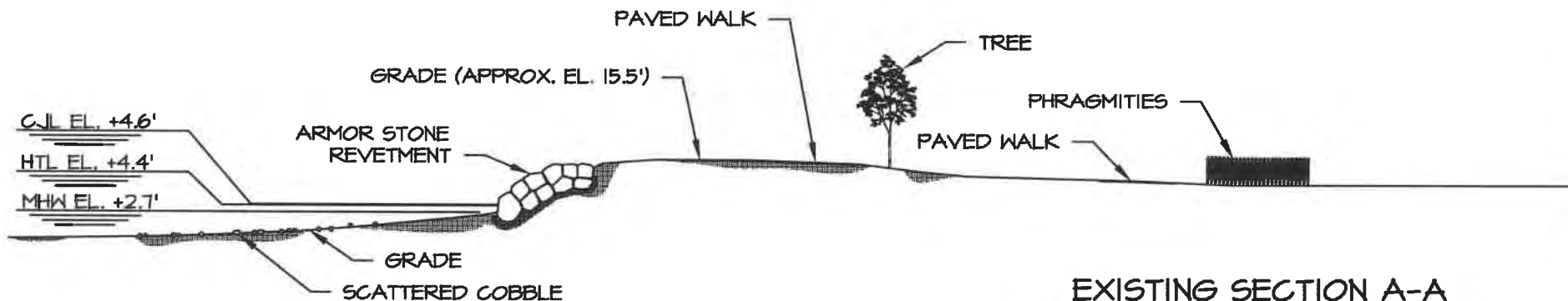


PROPOSED PARTIAL PLAN 4 OF 4

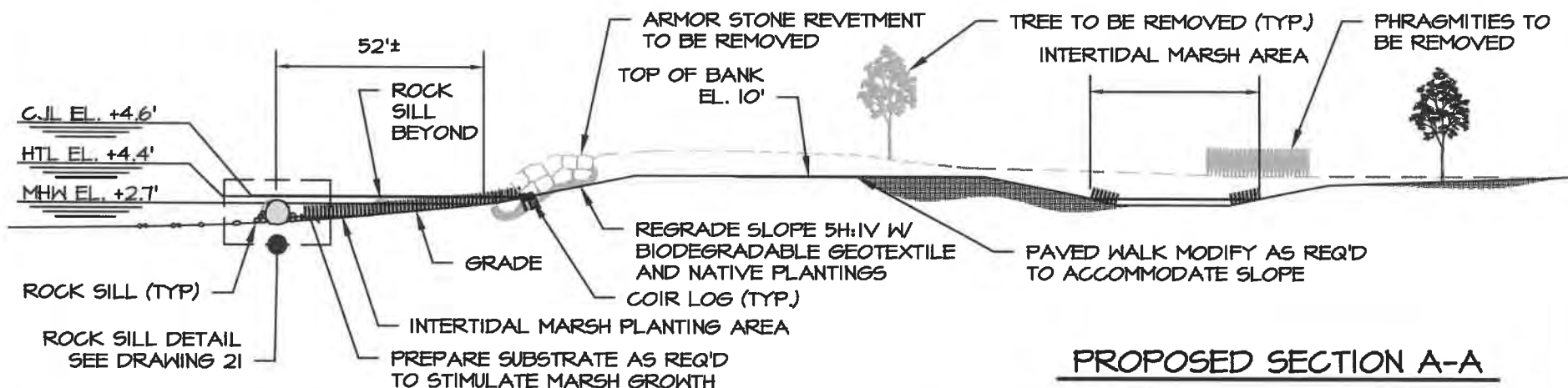
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DATUM: NAVD86			APPLICANT:	
SCALE: AS SHOWN			CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510	
DATE: 01/15/2021				
REV:				
PROJECT #: 2018025		NOT VALID WITHOUT ENGINEER'S SEAL		DRAWING NO. 10 OF 22

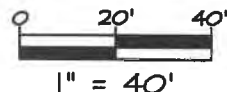


EXISTING SECTION A-A



PROPOSED SECTION A-A

NOTE:
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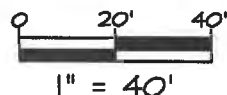
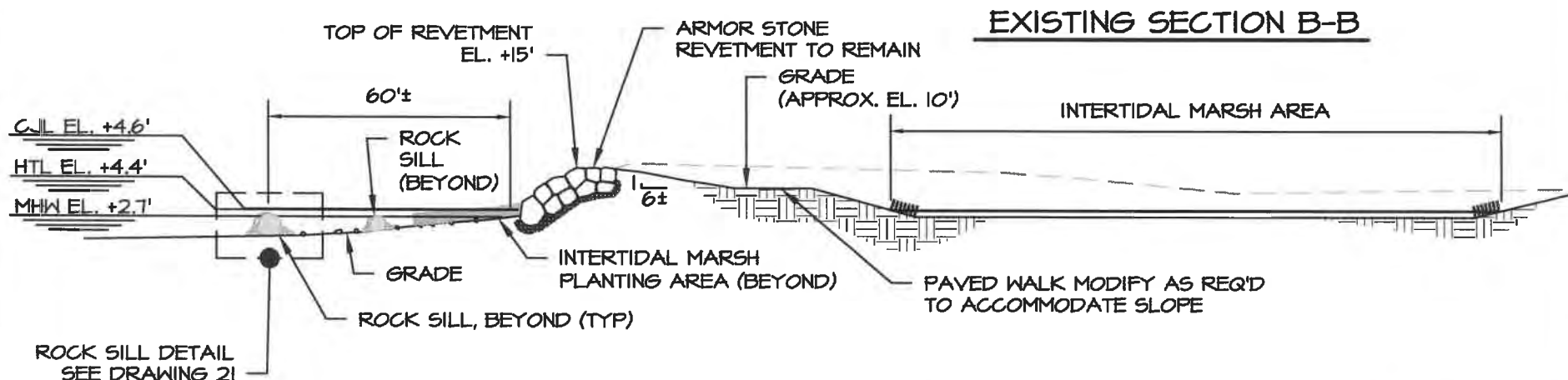
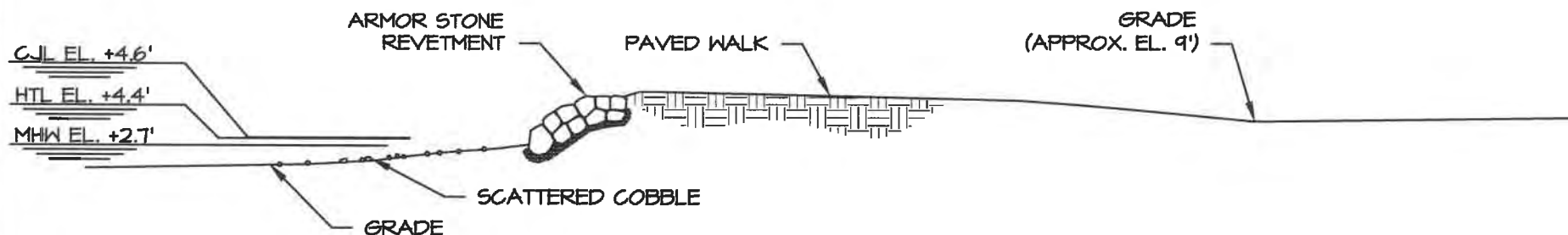
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CHECKED BY: JAP	
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SCALE: AS SHOWN	
DATE: 07/15/2021	
REV:	
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

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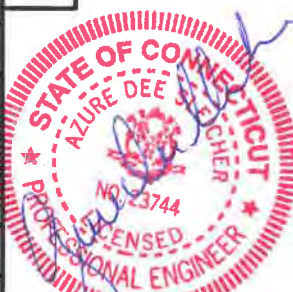
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REV:
PROJECT #: 2018025

SEAL:



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PROJECT:

EAST SHORE PARK
LIVING SHORELINE
300 WOODWARD AVENUE
NEW HAVEN, CT 06512

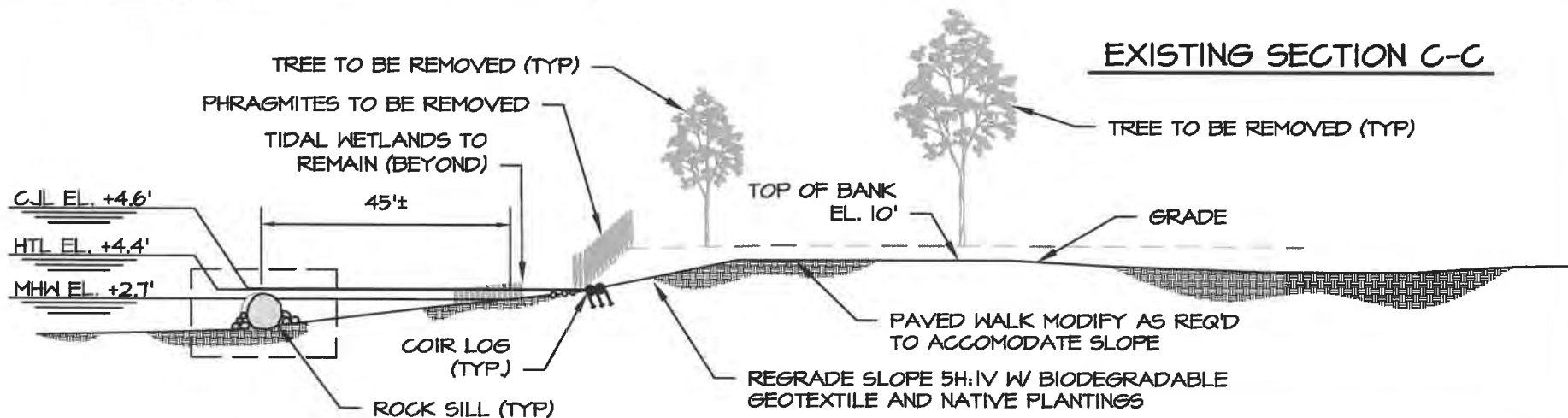
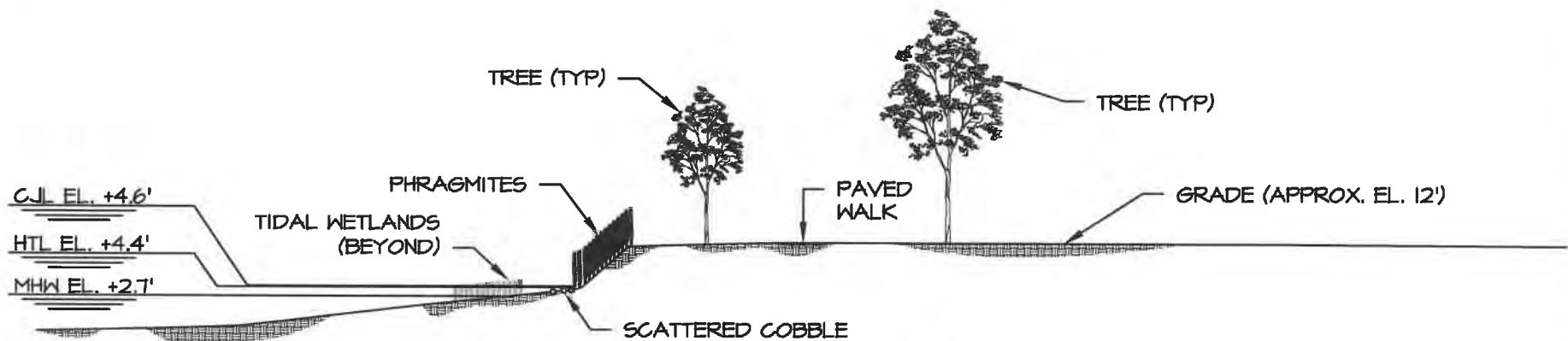
APPLICANT:

CITY OF NEW HAVEN
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200 ORANGE STREET #503
NEW HAVEN, CT 06510

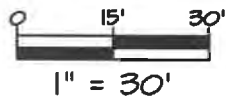
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NOTE:
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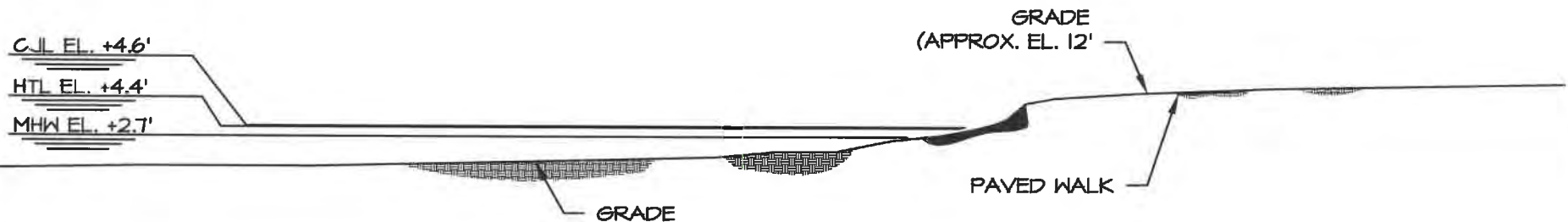


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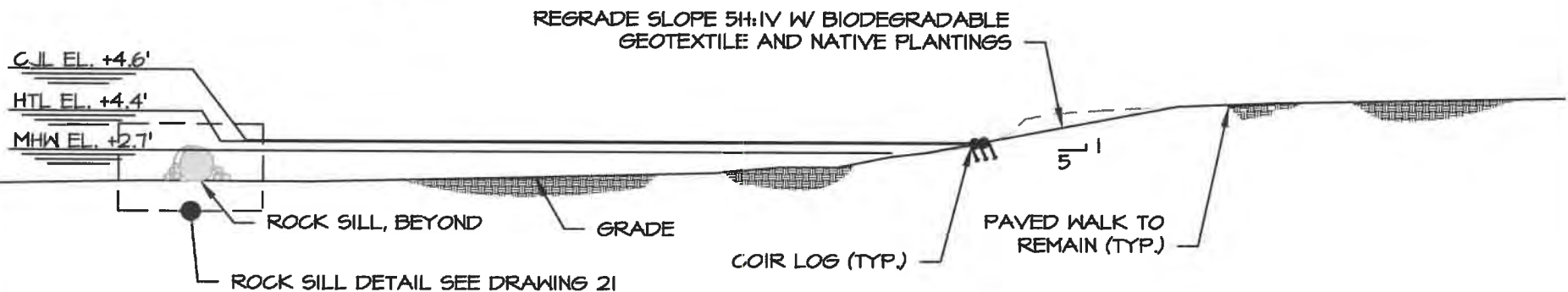
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DATE: 07/15/2021	
REV:	
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

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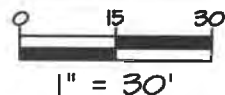


EXISTING SECTION D-D



PROPOSED SECTION D-D

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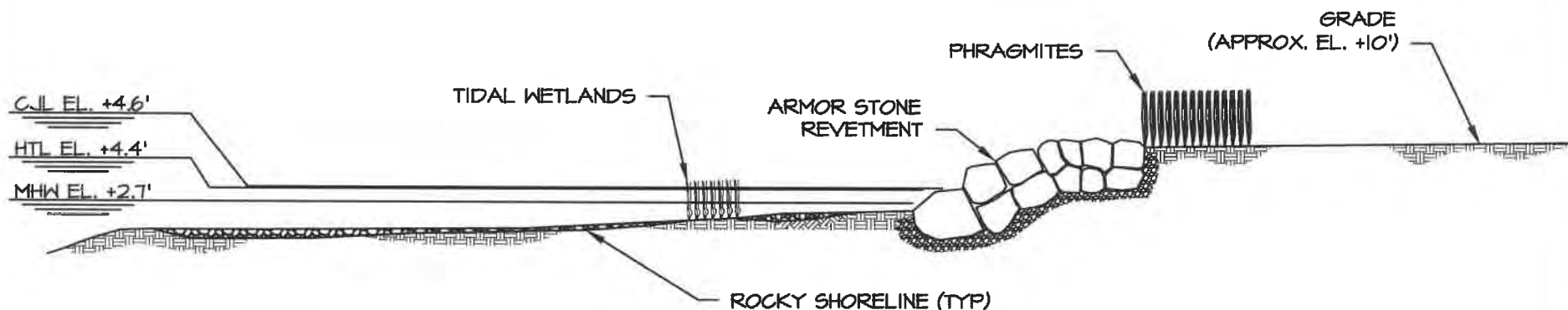
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PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

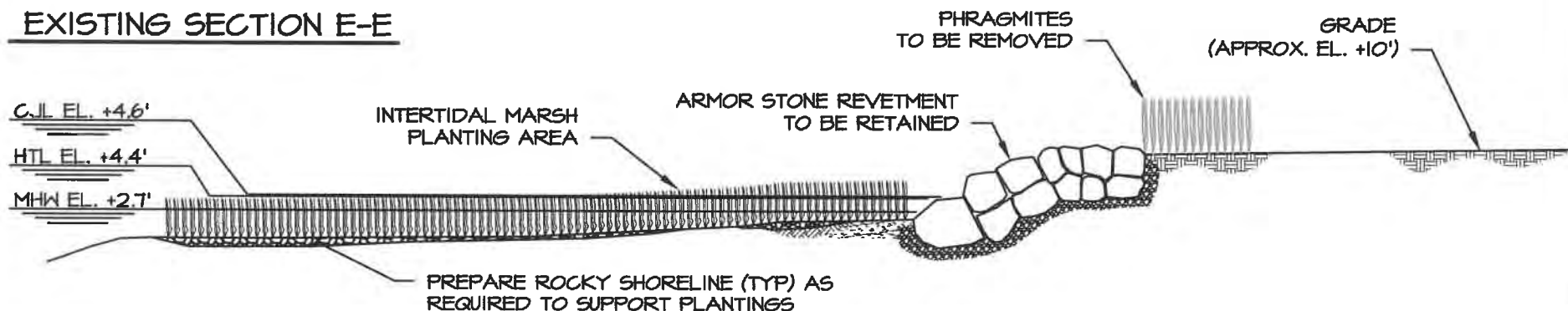
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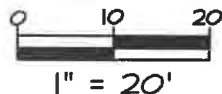
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EXISTING SECTION E-E



PROPOSED SECTION E-E



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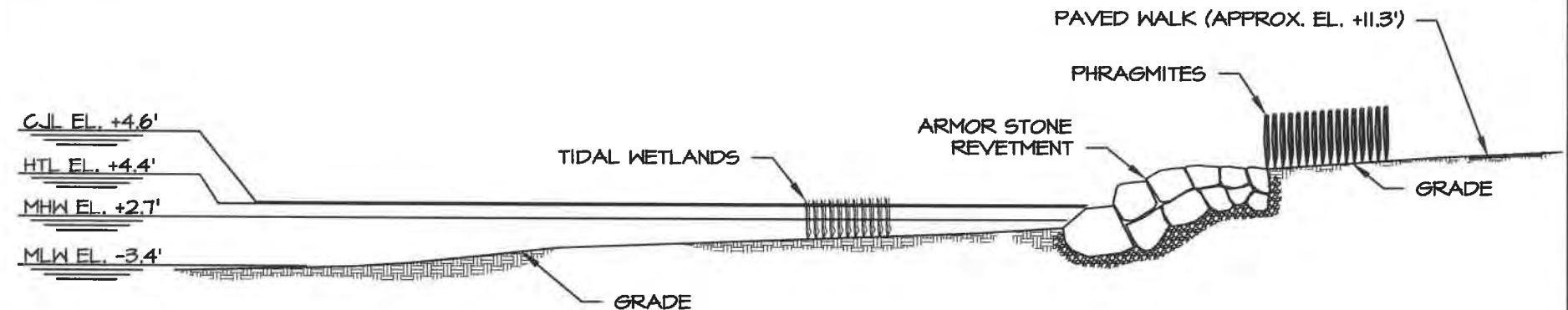
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REV:	
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

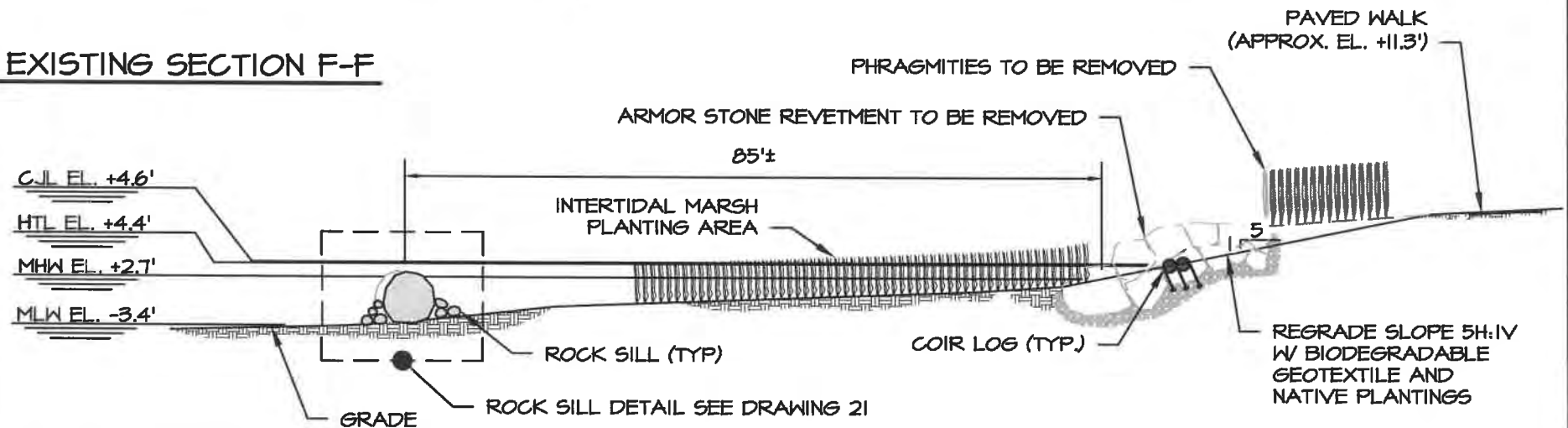


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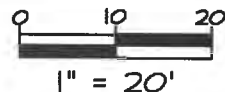


EXISTING SECTION F-F



PROPOSED SECTION F-F

NOTE:
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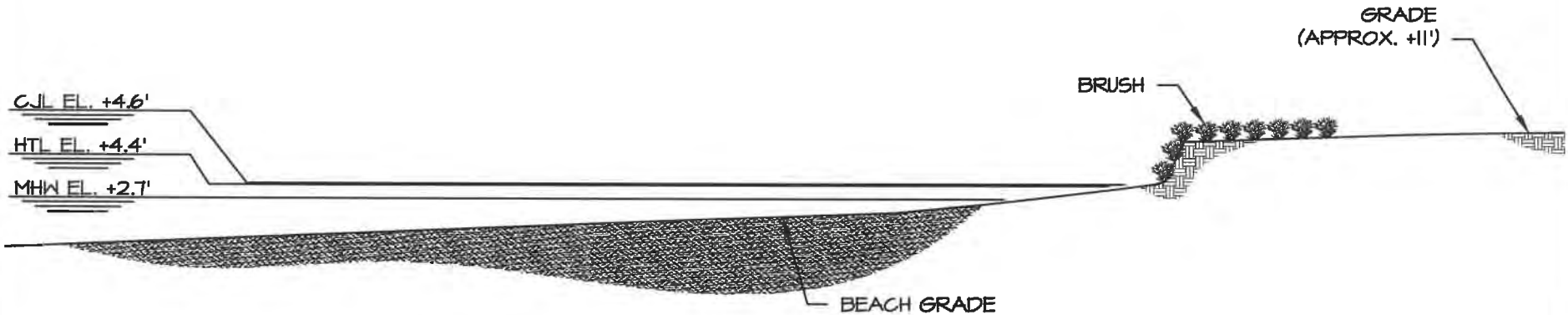
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REV:	
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

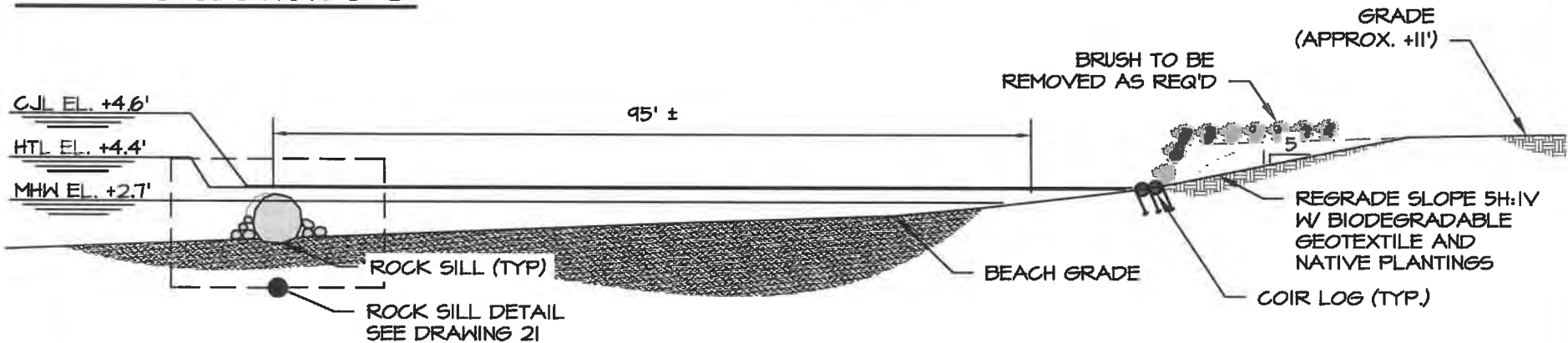
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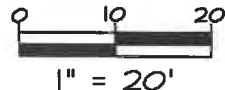


EXISTING SECTION G-G



PROPOSED SECTION G-G

NOTE:
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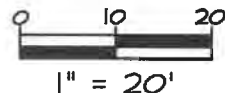
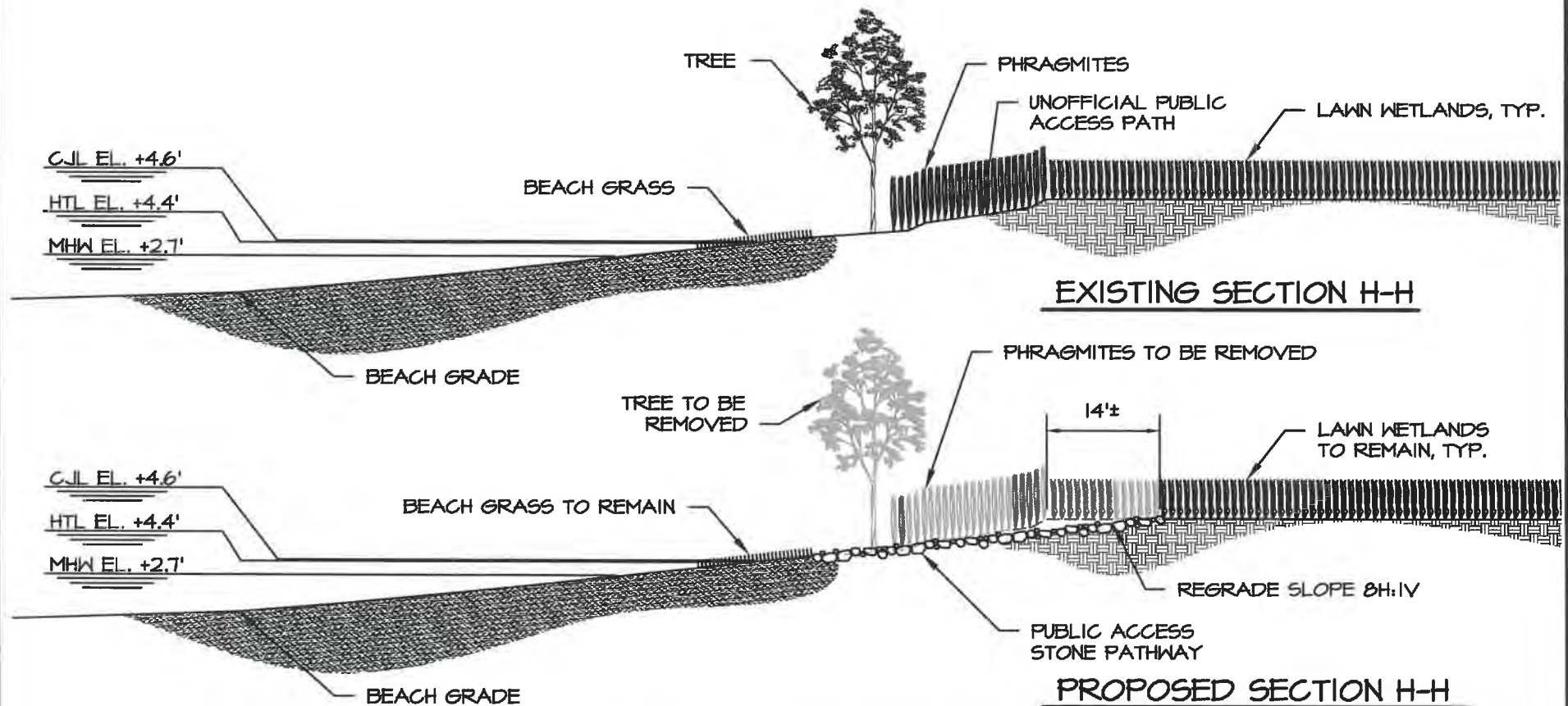
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DATE: 07/15/2021	
REV:	
PROJECT #: 2018025	NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:
EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

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PROJECT #: 2018025

SEAL:



PROJECT:

EAST SHORE PARK
LIVING SHORELINE
300 WOODWARD AVENUE
NEW HAVEN, CT 06512

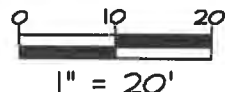
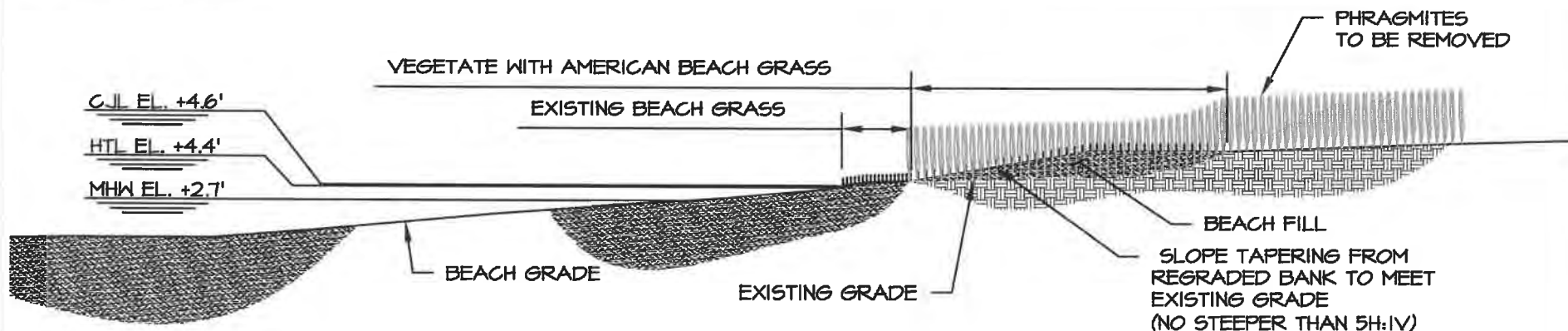
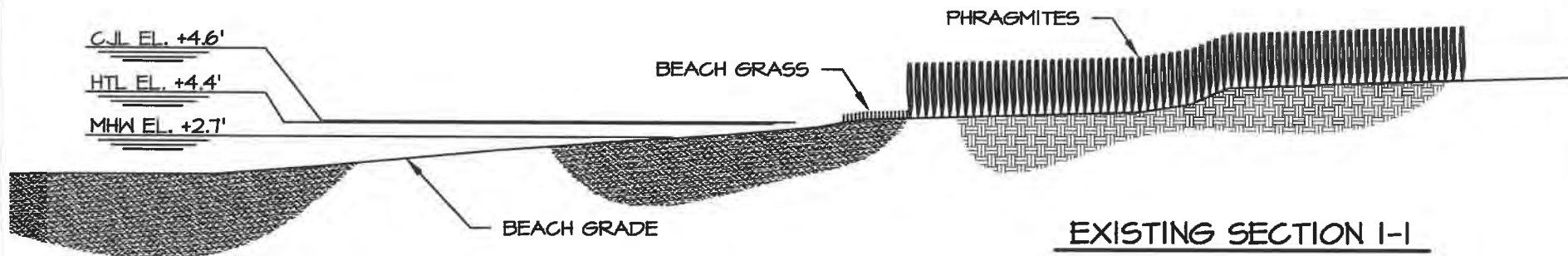
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PROJECT #: 2018025

SEAL:

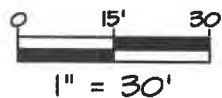
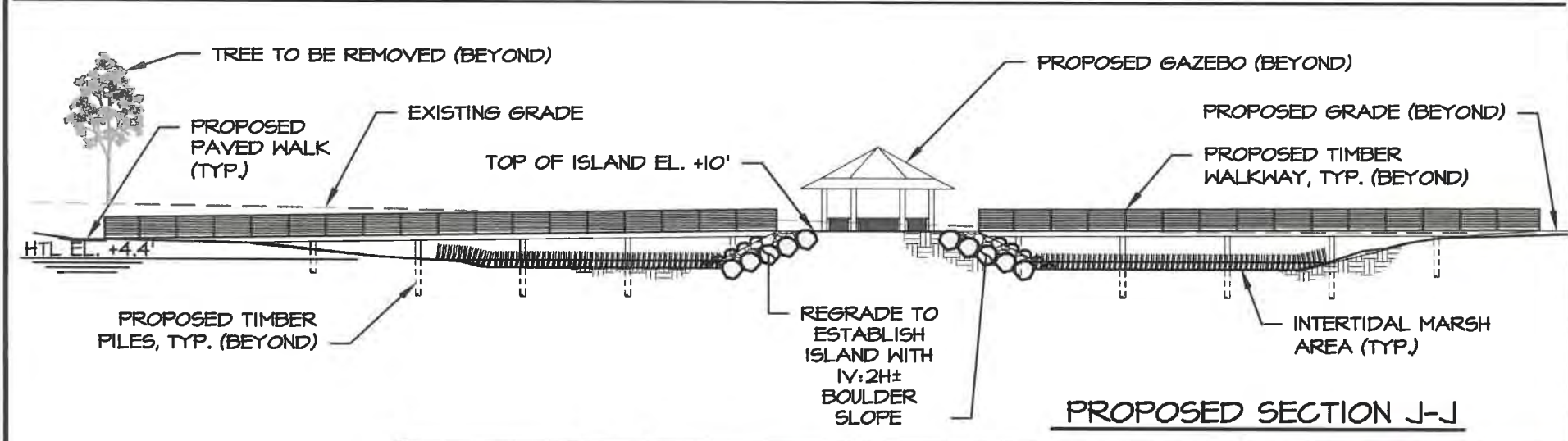
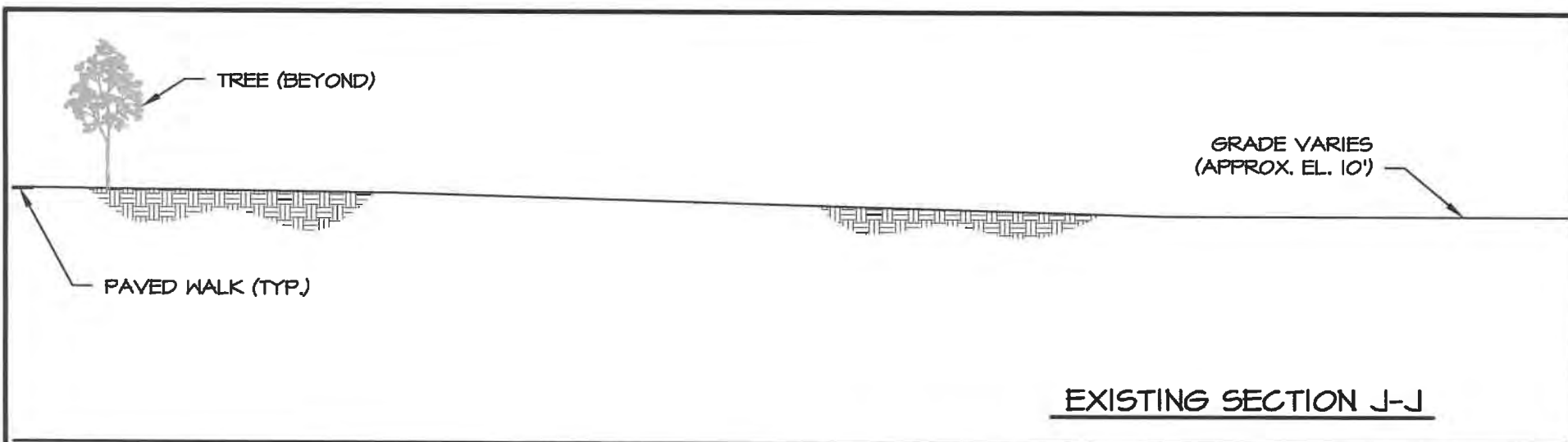
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PROJECT:
EAST SHORE PARK
LIVING SHORELINE
300 WOODWARD AVENUE
NEW HAVEN, CT 06512
APPLICANT:
CITY OF NEW HAVEN
ENGINEERING DEPARTMENT
200 ORANGE STREET #503
NEW HAVEN, CT 06510

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SCALE:	AS SHOWN
DATE:	01/15/2021
REV:	
PROJECT #:	2018025

SEAL:

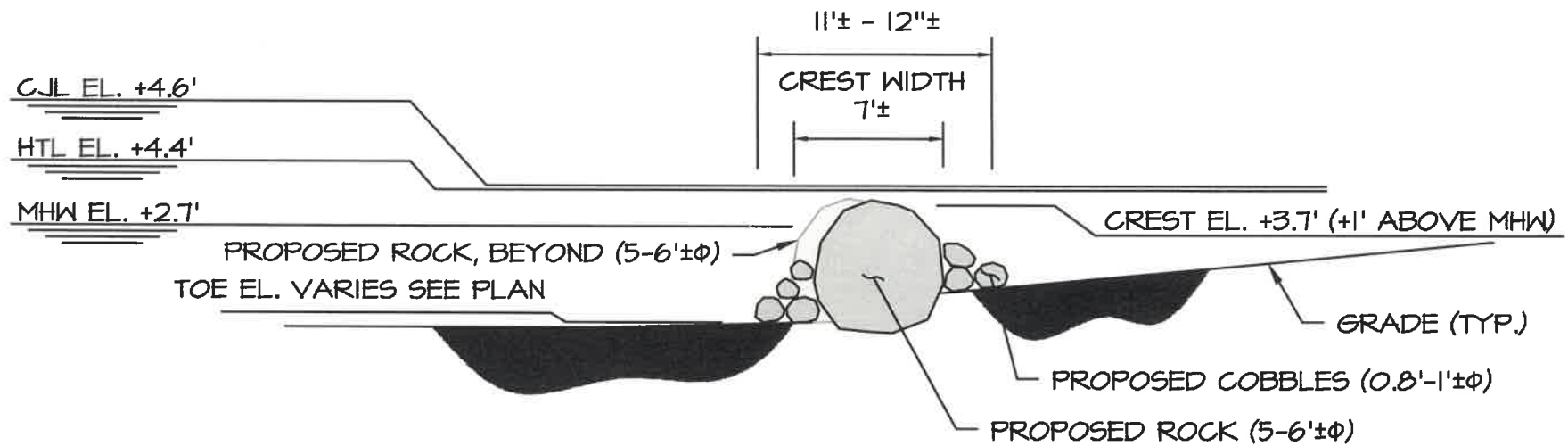
NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:	EAST SHORE PARK LIVING SHORELINE 300 WOODWARD AVENUE NEW HAVEN, CT 06512
APPLICANT:	CITY OF NEW HAVEN ENGINEERING DEPARTMENT 200 ORANGE STREET #503 NEW HAVEN, CT 06510

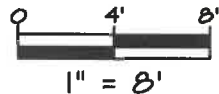
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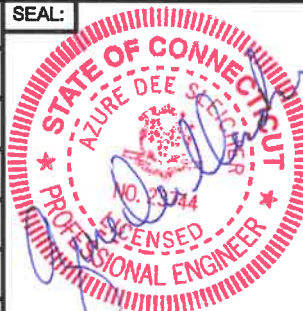
TYPICAL SILL DETAIL



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PROJECT #:	2018025

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APPLICANT:

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200 ORANGE STREET #503
NEW HAVEN, CT 06510

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DRAWING NO. 21 OF 22

PLANTING PLAN:

SLOPE - LOWER ZONE

EXTENDING FROM THE HTL FIVE FEET HORIZONTALLY LANDWARD. INSTALL THE FOLLOWING ROOTED PLANTS (PLUGS) 18" ON CENTER:

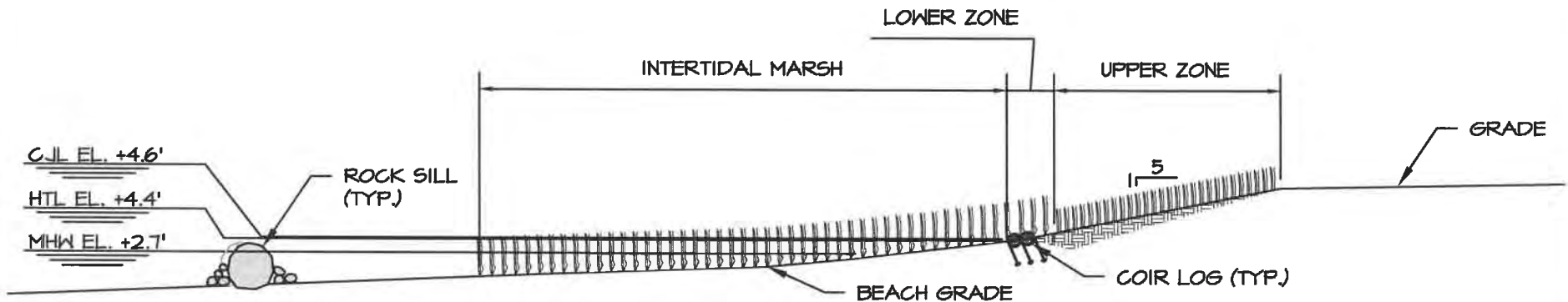
- AMERICAN BEACH GRASS
- SWITCHGRASS
- SEASIDE GOLDENROD
- BEACH PEA
- VIRGINIA CREEPER

SLOPE - UPPER ZONE

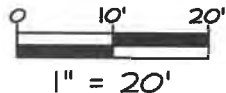
EXTENDING LANDWARD OF THE LOWER ZONE. ESTABLISH A MEADOW OF NATIVE COASTAL VEGETATION USING THE "NEW ENGLAND COASTAL SALT TOLERANCE GRASS" SEED MIX PRODUCED BY NEW ENGLAND WETLAND PLANTS AND APPLIED ACCORDING TO THEIR RECOMMENDATIONS.

INTERTIDAL MARSH

EXTENDING WATERWARD FROM SLOPED GRADE PER PROJECT PLANS. INSTALL SPARTINA ALTERNIFLORA PLUGS AT 18" O.C.



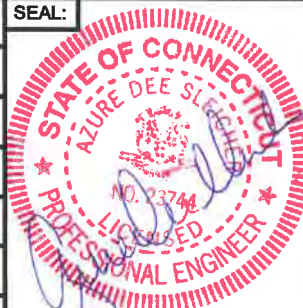
TYPICAL PLANTING PLAN DETAIL



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SEAL:



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NEW HAVEN, CT 06512

APPLICANT:

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200 ORANGE STREET #503
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