

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

Applicant:

Town of Fairfield
725 Old Post Road
Fairfield, CT 06824

Project Location:

Sasco Beach
1401 Sasco Hill Road
Fairfield, CT 06824



Proposed Beach Grading

April 2017

Prepared By:



611 Access Road
Stratford, CT 06615
Tel: (203)-377-0663
Fax: (203)-375-6561

Project # 201644

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SECTION 1

Application to the Department of the Army Permit



U.S. ARMY CORPS OF ENGINEERS
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
33 CFR 325. The proponent agency is CECW-CO-R.

*Form Approved -
OMB No. 0710-0003
Expires: 30-SEPTEMBER-2015*

Public reporting for this collection of information is estimated to average 11 hours per response, including the 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 this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). 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. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE
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(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Middle - Last - Company - Town of Fairfield E-mail Address - BCarey@fairfieldct.org			8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Azure Middle - Dee Last - Sleicher Company - RACE Coastal Engineering E-mail Address - AzureDee@racecoastal.com		
6. APPLICANT'S ADDRESS: Address- 725 Old Post Road City - Fairfield State - CT Zip - 06824 Country - USA			9. AGENT'S ADDRESS: Address- 611 Access Road City - Stratford State - CT Zip - 06615 Country - USA		
7. APPLICANT'S PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 203-256-3071			10. AGENTS PHONE NOs. w/AREA CODE a. Residence b. Business c. Fax 203-377-0663 203-375-6561		

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Azure Dee Sleicher to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

SIGNATURE OF APPLICANT

DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)

Sasco Beach Regrading

13. NAME OF WATERBODY, IF KNOWN (if applicable) Long Island Sound		14. PROJECT STREET ADDRESS (if applicable) Address 1404 Sasco Hill Road		
15. LOCATION OF PROJECT Latitude: \circ N 41.125251 Longitude: \circ W 73.278524		City - Fairfield State- CT Zip- 06824		

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)

State Tax Parcel ID 2390160000

Municipality Town of Fairfield

Section -

Township -

Range -

17. DIRECTIONS TO THE SITE

From I-95 Exit 21

Head South on Mill Plain Road

Right onto Post Road (US-1 South)

Left onto Sasco Hill Road

Turn Right to continue on Sasco Hill Road - the site will be on the left.

18. Nature of Activity (Description of project, include all features)

See attached

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The purpose of this project is to design the beach such that it may be eligible for FEMA funding following a severe coastal storm. The proposed work will stabilize the existing beach making it less susceptible to erosion.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

N/A

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type	Type	Type
Amount in Cubic Yards	Amount in Cubic Yards	Amount in Cubic Yards

N/A

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres N/A

or

Linear Feet N/A

23. Description of Avoidance, Minimization, and Compensation (see instructions)

N/A

24. Is Any Portion of the Work Already Complete? Yes No IF YES, DESCRIBE THE COMPLETED WORK

N/A

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- See Attached

City - State - Zip -

b. Address-

City - State - Zip -

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
Town of Fairfield	Coastal Site Plan	N/A	To be filed	TBD	TBD
CT DEEP	General Permit	GP-2015-02	N/A	N/A	N/A

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

DATE

SIGNATURE OF AGENT

DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

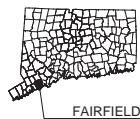
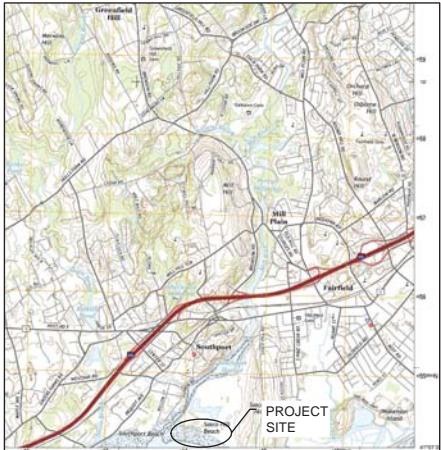
SECTION 2

Drawings



SASCO BEACH ENGINEERED BEACH DESIGN SASCO POINT FAIRFIELD, CT

3/22/2017



LIST OF DRAWINGS

DRAWING NO. DRAWING NAME

1	TITLE SHEET, DRAWING LIST & VICINITY MAP
2	PROJECT NOTES
3	SITE PLAN
4	GRADING PLAN
5	SECTIONS

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PROJECT NOTES

DESCRIPTION OF WORK

THE WORK COVERED UNDER THESE CONTRACT DOCUMENTS INCLUDING THE DRAWINGS, GENERAL NOTES, AND SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACTOR'S EQUIPMENT, EQUIPMENT CAPACITIES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION WITH AT LEAST, BUT NOT NECESSARILY, BUT NOT LIMITED TO, THE FOLLOWING ITEMS:

- REGRADE BEACH TO ENGINEERED SLOPES AND SPECIFICATIONS.

THE CONTRACTOR SHALL PROVIDE ALL ITEMS AND ACCESSORIES REQUIRED TO COMPLETE ALL ASPECTS OF THE WORK NEEDED FOR THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT CONTRACT DOCUMENTS.

GENERAL NOTES

1. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL Datum of 1989 (NAVD 88).
2. TOPOGRAPHY TAKEN IN PART FROM DRAWING TITLED "TOPOGRAPHIC SURVEY" DATED JULY, 2016 AND REVISED JULY 15, 2016 PREPARED BY GESICK & ASSOCIATES, P.C.
3. SUPPLEMENTAL SITE INFORMATION CONTAINED BY RACE COASTAL ENGINEERING, LLC ON THE DRAWINGS.
4. HYDROGRAPHIC SURVEY DATA OBTAINED BY RACE COASTAL ENGINEERING, LLC ON JUNE 16, 2016 AND ONLY REPRESENTS THE SITE CONDITIONS AT THAT TIME.

5. WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATORY REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MEET LINES AND GRADES DEPICTED WITHIN THESE CONTRACT DRAWINGS.

7. THESE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROPOSED CONTRACT DOCUMENTS AND NOT INSTEAD OF THOSE PERMITS. THE CONTRACTOR IS ADVISED THAT THE REGULATORY PERMITS MAY CONTAIN REQUIREMENTS AND ADDITIONAL REQUIREMENTS THAT, AFTER ANY ADDENDUM, SUPERSEDE THE DRAWING NOTES. THE CONTRACTOR IS FURTHER ADVISED THAT THE CONTRACT DOCUMENTS AND PERMITS WITHIN THE CONTRACT DOCUMENTS FOUND BEFORE COMMENCEMENT OF WORK. ANY INFORMATION TAKES PRIORITY WILL BE MADE BY THE ENGINEER OF RECORD ON THE BASIS OF THAT INTENT.

8. EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT AND FABRICATION OR ORDERING OF ANY CONSTRUCTION MATERIALS.

9. SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.

10. DAMAGE TO ANY PROPERTY, PRIVATE OR OF PUBLIC TRUST, OCCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT THE EXPENSE OF THE CONTRACTOR.

11. THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS.

12. THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKERS WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE PERFORMANCE OF THE WORK AND WHO ARE FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND METHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.

13. THE CONTRACTOR SHALL USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND PERFORMANCE TO MEET THE SPECIFIED REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS TO ACCOMPLISH THE WORK.

14. THE CONTRACTOR SHALL PROTECT BEACHES AND COASTAL RESOURCES FROM INTRUSION BY TURBO WAVES, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL.

15. THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT SUM THE COST FOR ALL NECESSARY PERMITS, LICENSES, CERTIFICATES OF INSURANCE, AND SPECIAL REQUIREMENTS TO PERFORM THE WORK OF THE CONTRACT. THE OWNER IS TO OBTAIN NECESSARY REGULATORY PERMITS REQUIRED FOR THE WORK AND TO PROVIDE THE CONTRACTOR WITH THE NECESSARY COPIES OF THOSE REGULATORY PERMITS AND MAKE PROVISIONS FOR THE CONTRACTOR TO OBTAIN PERMITS FOR APPLICABLE CONDITIONS OF THOSE PERMITS. FAILURE TO COMPLY WITH THE CONTRACT DOCUMENTS AND PERMITS AS A PART OF THE BID SHALL NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO APPLY THESE CONDITIONS TO HIS WORK AT HIS OWN EXPENSE TO THE OWNER.

SELECTIVE DEMOLITION

1. DEMOLISHED MATERIAL DEemed UNACCEPTABLE FOR REUSE OR RECYCLING BY THE PROPERTY OWNER, UTILITIES OR STRUCTURES PRIOR TO ANY WORK.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP A CLEAN & Tidy WORK SITE. THE SITE SHALL BE LEFT NEAT AND CLEAN AT THE END OF EACH DAY.

3. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THE BID TO BECOME FAMILIAR WITH EXISTING CONDITIONS FOUND ON SITE.

EROSION & SEDIMENTATION CONTROLS

1. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM.
2. PRIOR TO MOBILIZATION, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED.
3. whenever possible EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT DESIGN STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL", MAY 2002.
5. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
6. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NECESSARY AND REQUIRED.
7. THE GENERAL CONTRACTOR SHALL UTILIZE APPROVED METHODS AND MATERIALS FOR PREVENTING THE SLIDES AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES INTO ADJACENT SURFACES AND SITE AREAS.
8. THE CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE 100' MIN ON SITE FOR EMERGENCY PURPOSES.
9. ALL DISTURBED LAND AREAS OUT OF THE MAJOR CONSTRUCTION AREA THAT ARE TO BE LEFT EXPOSED FOR PROLONGED PERIODS OF TIME SHALL BE PROTECTED WITH TEMPORARY VEGETATIVE COVER, SEEDING, OR AREAS WITH PERENNIAL OR GRASS AT THE RATE OF 40 LBS. PER ACRE (1 LB PER 100 SQ FT).
10. THE GENERAL CONTRACTOR IS ASIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENTATION CONTROL PLAN. THE CONTRACTOR IS RESPONSIBLE FOR SUPERVISING THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE PROJECT OF THE EROSION AND SEDIMENTATION OBJECTIVES OF THE PLAN, NOTIFYING THE CONSERVATION STAFF OF THE STATE OF CONNECTICUT OF THE EROSION AND SEDIMENTATION CONTROL PLAN, AND CONVEYING A COPY OF THE CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

EXCAVATION AND BACKFILLING

1. THE CONTRACTOR SHALL EXCAVATE BACKFILL AND GRADE THE AREAS TO THE ELEVATIONS AND LINES SHOWN AND NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION.
2. GRADE THE AREAS ADJACENT TO BUILDINGS TO ACHIEVE DRAINAGE AWAY FROM THE STRUCTURES AND PREVENT PONDING.
3. THE SOIL PARTICLES SHALL BE ANGULAR TO SUB-ROUNDED AND FREE OF CLAY.
4. THE MINIMUM SPECIFIC GRAVITY OF SOIL PARTIALS SHALL BE 2.65.
5. THE CONTRACTOR SHALL SUBMIT LABORATORY CERTIFICATION FOR EACH 1000 CY. DELIVERED OR FOR EACH 100 CY. GRADED. THE CERTIFICATION STATES THE SOIL PROPOSED FOR BEACH FILL SATISFIES THE MINIMUM REQUIREMENTS FOR THE GRADE AND GRADING GRADATION CURVES AND COMPUTATION SHEETS.
6. SAND SHALL BE FREE OF CONTAMINANTS: PCB'S, Dioxin, Hg, PCB's, AND OTHER TOXIC CHEMICALS. A COPY OF THE CERTIFICATION SHALL BE PROVIDED TO THE OWNER.
7. CONTRACTOR SHALL PROVIDE SAMPLE AND TEST RESULTS TO THE OWNER FOR APPROVAL. ANY VARIATION IN THE SPECIFIED GRADATION MAY REQUIRE PLACEMENT OF ADDITIONAL FILL VOLUME BASED ON ENGINEERING ANALYSIS.



611 Access Road Stratford, CT 06615
Tel: 203-377-6663 www.racecoastal.com

OWNERSHIP AND CONDITIONS OF USE

Drawings and Specifications, as instruments of professional service, are and shall remain the property of RACE Coastal Engineering, LLC. Drawings and Specifications are to be used, in whole or in part, for one project or purposes or by any other party than those authorized by the owner or by the owner's representative of RACE Coastal Engineering, LLC. The use of this drawing and specification by any other party than RACE Coastal Engineering, LLC for services rendered. Non-payment shall give RACE Coastal Engineering, LLC the authority to sue for payment by any other party.

THIS DRAWING IS COPYRIGHTED

REVISIONS
NO. DESCRIPTION BY DATE

NOT VALID WITHOUT ENGINEER'S SEAL

FOR REGULATORY REVIEW
NOT FOR CONSTRUCTION

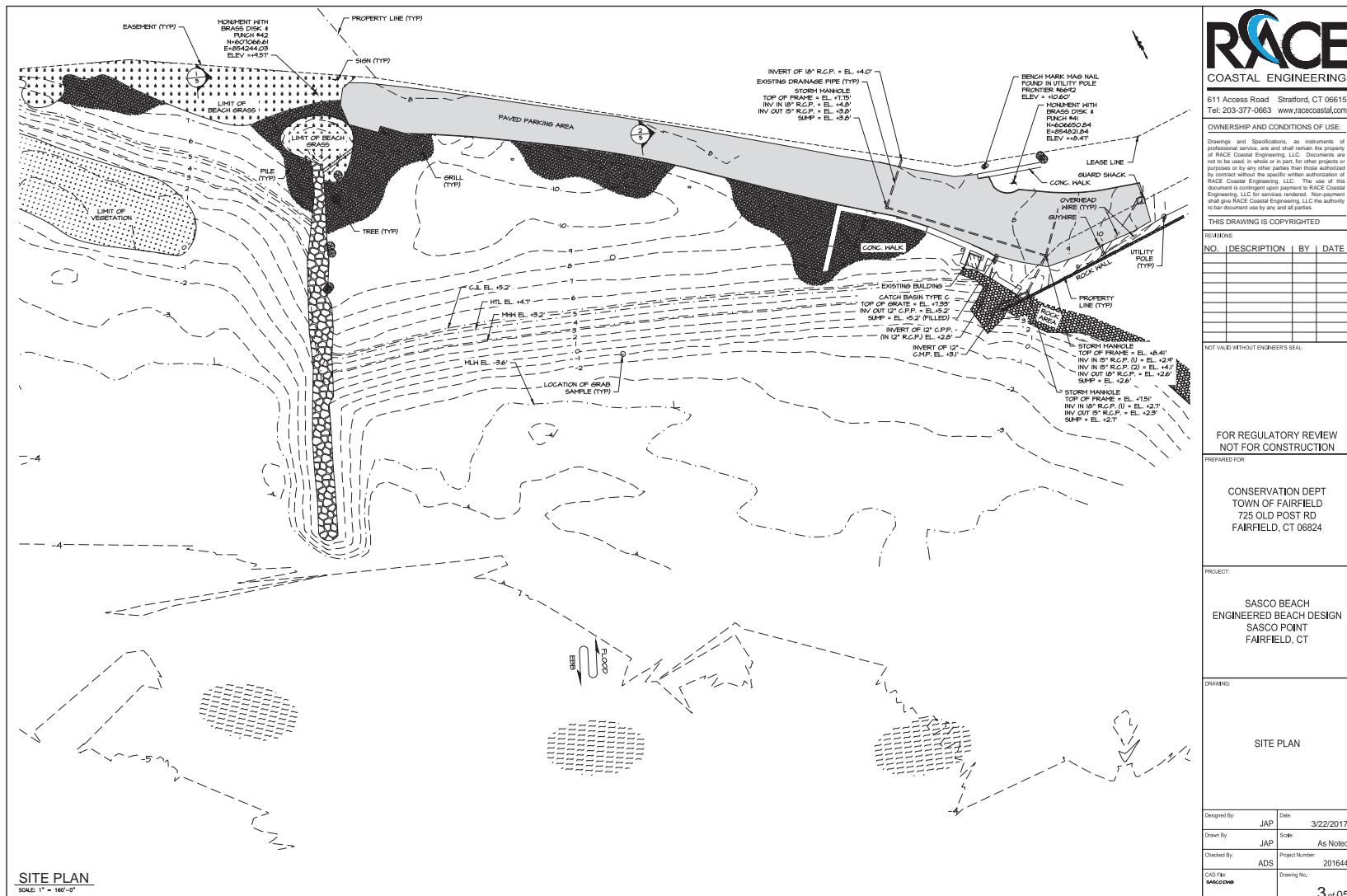
PREPARED FOR:
CONSERVATION DEPT
TOWN OF FAIRFIELD
725 OLD POST RD
FAIRFIELD, CT 06824

PROJECT:
SASCO BEACH
ENGINEERED BEACH DESIGN
SASCO POINT
FAIRFIELD, CT

DRAWING

PROJECT NOTES

Designed By: JAP Date: 3/22/2017
Drawn By: JAP Scale: As Noted
Checked By: ADS Project Number: 201644
CAD / B: SASCOBE Drawing No.:
2 of 5



NOTES:

1. BLEND PROPOSED CONTOURS INTO EXISTING CONTOURS BEFORE STA. 000014.
2. PROJECT WORK SHALL NOT EXCEED PROPERTY LINE (TYP).
3. PERMANENT STRUCTURES, INCLUDING BUT NOT LIMITED TO SHEWS, GRILLS, TABLES, AND CHAIRS, SHALL NOT REMAIN. PROPOSED GRADING SHALL BLEND INTO EXISTING GRADE.
4. REMOVABLE STRUCTURES, INCLUDING BUT NOT LIMITED TO PICNIC TABLES AND CHAIRS, SHALL BE TEMPORARILY REMOVED AND RESTORED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER.
5. GRADING SHALL REMAIN ABOVE MLH. TEMPLATE TO ADJUSTMENT BETWEEN STA. 000014 AND STA. 000015 AS PERTAIN TO REMAIN ABOVE MLH.

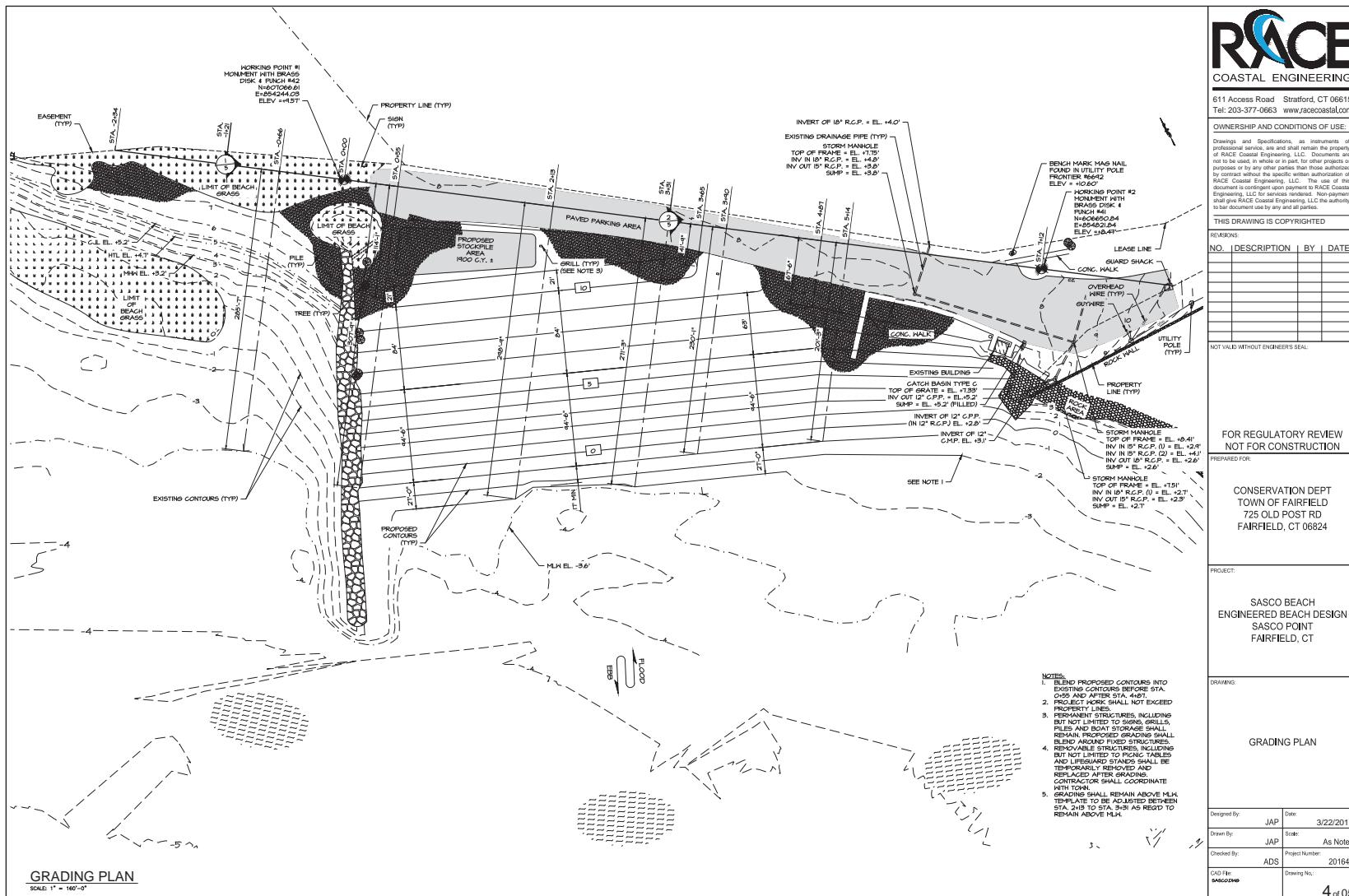
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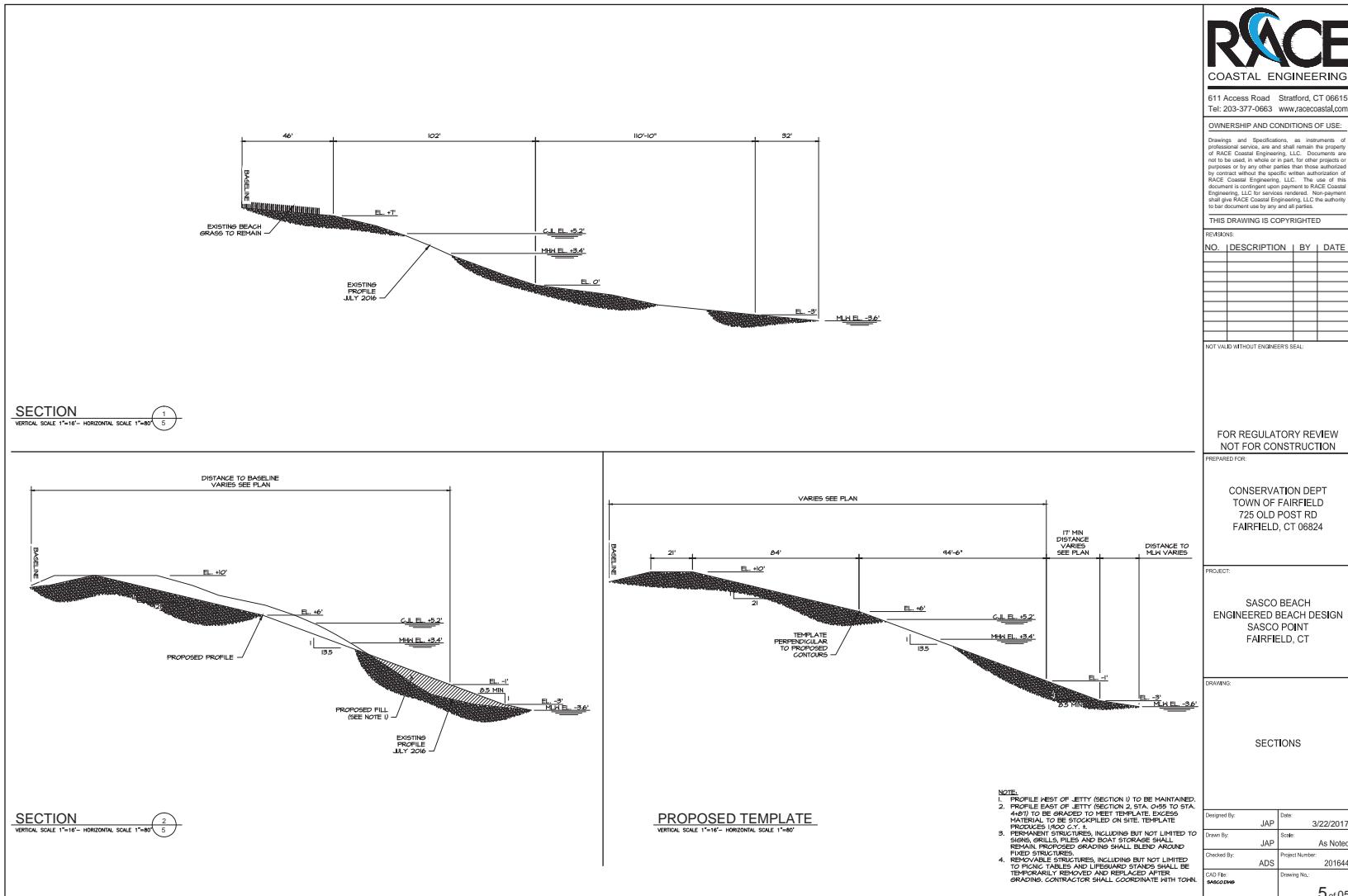
Designed By: JAP Date: 3/22/2017

Drawn By: JAP Scale: As Noted

Checked By: ADS Project Number: 201644

CAD File: SASCO2016 Drawing No:





SECTION 3

Project Narrative



A. DESCRIPTION OF PROPOSED PROJECT

- Description of Existing Sites** – The site is one of the five Town beaches in Fairfield, CT. The site is described below:

Sasco Beach – 1401 Sasco Hill Road, Fairfield, CT 06824

The property has an area of approximately 431,244 square feet (9.9± acres). It is a linear beach utilized by the public for recreational beach opportunities. Immediately west of the site is a revetment along the shoreline of Fairfield Country Club which transitions into a sandy beach before terminating at a jetty the mouth of Southport Harbor. East of the site is another revetment on a privately owned residential property. Geomorphologically, the site can be described as a sand beach. It is a dynamic coastal landform whose shape and form will be most strongly influenced by wave action. It remains in a natural state in spite of relatively high utilization and modest anthropogenic impacts. Areas adjacent to the site are more developed and include a parking lot, golf course, and road way.

The site is exposed to Long Island Sound and is subject to coastal flooding associated with storm conditions. The subject property is located in a Special Flood Hazard Area (SFHA) designated by FEMA as Zone VE (El 13)/Zone AE (El 11) according to FEMA Flood Insurance Rate Map (FIRM) Panels 09001C0419G and 09001C0457G with an effective date of July 8, 2013.

2. Proposed Activities

The Applicant proposes to perform the following activities:

- Regrade the beach to engineered slopes and specifications.

The regrading of the Sasco Beach site will result in an excess of 1,900 cubic yards of sand to be stockpiled on the site. Regrading is limited to above mean low water (MLW) and the stockpile area is to be above CJL and HTL.

The purpose of this project is to design the beach such that it may be eligible for FEMA funding following a severe coastal storm. Regular maintenance of the beach is important to maintain the beach profile and prevent erosion and damage. The level of protection in the aftermath of a major storm will be decreased if proper maintenance is not performed. Beaches that have eroded to a critical condition are not eligible for FEMA funding. As such, the Applicant is also proposing to maintain the beach through periodic nourishment, advance nourishment, and emergency maintenance. Periodic nourishment of the beach will be necessitated by the cumulative erosion of the beach caused by storm events.

B. DESCRIPTION OF COASTAL RESOURCES

The Coastal Land and Water Resources as identified by Town of Fairfield Plan and Zoning Department, site inspection and review of the Coastal Resources Map, the Sherwood Point Quadrangle (dated 1979), and defined in the Connecticut General Statutes (CGS) Sec. 22a-93 include the following:

General Resources:

Each site is located within the *Coastal Area Management Zone*.



Coastal Hazard Areas:

“Coastal Hazard Areas” means those land areas inundated during coastal storm events or subject to erosion induced by such events including flood hazard areas as defined by the National Flood Insurance Act.

The subject property is located in a Special Flood Hazard Area (SFHA) designated by FEMA as Zone VE (El 14)/Zone AE (El 12) according to FEMA Flood Insurance Rate Map (FIRM) Panels 09001C0419G and 09001C0457G with an effective date of July 8, 2013.

Nearshore Coastal Water:

The nearshore coastal waters of Long Island Sound and its various substrates lie immediately seaward of this site’s mean high water boundary out to a depth approximated by the 10-meter contour.

The site contains nearshore coastal waters.

Beaches and Dunes:

*“Beaches and Dunes” are ‘moderately sloping shores composed of water worked sand, gravel or cobble deposits (beach) and when present, wind deposited sands (dunes and sand flats). The beach (proper) is positioned between mean low water and coastal bluffs/escarpments or dunes or vegetation. The map designations include all areas of sandy beach fill. Dunes and sand flats positioned landward and elevated above the beach, support coastal grasslands dominated by beach grass (*Ammophila breviligulata*)’.*

The site contains beaches and dunes. The proposed regrading will reshape the beach to achieve idealized slopes and grades and make them more resistant to coastal storms. The proposed work will enhance this resource. The proposed regrading will remain seaward of the dune and beach grass it supports.

Tidal Wetlands

“Tidal Wetlands” are wetlands as defined by section 22a-29.

Tidal wetlands are found on the Sasco Beach Site. The site contains a stone groin on the western portion of the site. The tidal wetlands are located west of the stone groin. All proposed work is to the east of the groin, away from the tidal wetlands. It is not anticipated that the proposed work will have an impact on this resource.

C. ASSESSMENT OF SUITABILITY OF COASTAL RESOURCES TO ACCOMMODATE THE PROPOSED PROJECT

1. Identify all coastal resource policies (in Section 22a-92(b)(2) of the CCMA) applicable to the proposed project.

Section 22a-92(b)(2)(C):



To preserve the dynamic form and integrity of natural beach systems in order to provide critical wildlife habitats, a reservoir for sand supply, a buffer for coastal flooding and erosion, and valuable recreational opportunities; to ensure that coastal uses are compatible with the capabilities of the system and do not unreasonably interfere with natural processes of erosion and sedimentation, and to encourage the restoration and enhancement of disturbed or modified beach systems.

Section 22a-92(b)(2)(F):

To manage coastal hazard areas so as to ensure that development proceeds in such a manner that hazards to life and property are minimized.

2. Identify all coastal use policies (in Section 22a-92(b)(1) of the CCMA) applicable to the proposed project.

Section 22a-92(a)(1):

To ensure that the development, preservation or use of the land and water resources of the coastal area proceeds in a manner consistent with the capability of the land and water resources to support development, preservation or use without significantly disrupting either the natural environment or sound economic growth.

Section 22a-92(a)(2):

To preserve and enhance coastal resources in accordance with the policies established by chapters 439, 440, 446i, 446k, 447, 474 and 477.

Section 22a-92(a)(3):

To give high priority and preference to uses and facilities which are dependent upon proximity to the water or the shorelands immediately adjacent to marine and tidal waters.

Section 22a-92(a)(5):

To consider in the planning process the potential impact of a rise in sea level, coastal flooding and erosion patterns on coastal development so as to minimize damage to and destruction of life and property and minimize the necessity of public expenditure and shoreline armoring to protect future new development from such hazards.

Section 22a-92(a)(6):

To encourage public access to the waters of Long Island Sound by expansion, development and effective utilization of state-owned recreational facilities within the coastal area that are consistent with sound resource conservation procedures and constitutionally protected rights of private property owners.

3. Describe how the proposed project is consistent with the coastal resource and use policies identified in items 1 and 2 above. Assess the extent to which the project conforms or conflicts with each policy.

In addition to resiliency, the project will also serve as a baseline such that the Town beach may be eligible for FEMA funding following a severe coastal storm event allowing it to be



continually retained as valuable public recreational opportunities and resources. Therefore, this project is consistent with Section 22a-92(b)(2)(C).

The proposed regrading will be minimal in nature to preserve the natural beach system. The work will enhance the shoreline making it more resilient to storm damage. Therefore, this project is consistent with Section 22a-92(b)(2)(F).

Overall, the proposed project will be consistent with the general development use policy (Section 22a-92(a)(1)) for land and water resources of the coastal area. The proposed work is designed to enhance the coastal resources (Section 22a-92(a)(2)) found on the public beach which will encourage public access to the waters of Long Island Sound (Section 22a-92(a)(3) and Section 22a-92(a)(6)). The work is being proposed to increase resiliency to coastal storms and to minimize damage to and destruction of life and property, and is therefore consistent with Section 22a-92-(a)(5).

D. EVALUATION OF POTENTIAL BENEFICIAL AND ADVERSE IMPACTS OF THE PROJECT

1. Identify and describe the potential benefits and adverse impacts of the project on coastal resources.

The potential adverse impacts (as defined in Section 22a-93(15)) of the Connecticut Coastal Management Act (CCMA) and potential beneficial impacts of the project on coastal resources are described below.

"Adverse impacts on coastal resources" include but are not limited to: (A) Degrading water quality through the significant introduction into either coastal waters or groundwater supplies of suspended solids, nutrients, toxics, heavy metals or pathogens, or through the significant alteration of temperature, pH, dissolved oxygen or salinity; (B) degrading existing circulation patterns of coastal waters through the significant alteration of patterns of tidal exchange or flushing rates, freshwater input, or existing basin characteristics and channel contours; (C) degrading natural erosion patterns through the significant alteration of littoral transport of sediments in terms of deposition or source reduction; (D) degrading natural or existing drainage patterns through the significant alteration of groundwater flow and recharge and volume of runoff; (E) increasing the hazard of coastal flooding through significant alteration of shoreline configurations or bathymetry, particularly within high velocity flood zones; (F) degrading visual quality through significant alteration of the natural features of vistas and view points; (G) degrading or destroying essential wildlife, finfish or shellfish habitat through significant alteration of the composition, migration patterns, distribution, breeding or other population characteristics of the natural species or significant alteration of the natural components of the habitat and (H) degrading tidal wetlands, beaches and dunes, rocky shorefronts, and bluffs and escarpments through significant alteration of their natural characteristics or function.

The project has been designed to not only minimize the adverse impacts listed above, but to improve the stability and make the Town beach more resilient to storm damage. The development and associated construction activity will take place within proper erosion



controls and is limited to landward of MLW. There is no potential to degrade surrounding water resources through introduction of substances, alteration of flow patterns or littoral transport. Numerical modeling has been performed to demonstrate that the project will not affect local flooding along the Applicant's (or adjacent) property and that the proposed work will lead to a more stable, resilient beach.

2. For waterfront property:

a. Is the project a water dependent use as defined by Section 22-93(16) of the CCMA?

The project is for a water dependent use. The proposed work will enhance the Town beach and therefore encourage public access to the waters of Long Island Sound.

b. Describe the impacts or effects that the project will have on future water dependent uses or development on and adjacent to the site.

The proposed work is designed to enhance the resiliency of the public beach which will encourage public access to the waters of Long Island Sound. In addition, the project will serve as a baseline such that the Town beach may be eligible for FEMA funding following a severe coastal storm event allowing it to be continually retained as valuable public recreational opportunity and resource.

c. Describe the proposed measures to mitigate any adverse impacts on coastal resources described in D1 and, if applicable, on future water dependent development opportunities.

No mitigation to coastal resources is necessary and therefore not proposed in this application.



E. ACCEPTABILITY OF REMAINING ADVERSE IMPACTS ON COASTAL RESOURCES AND FUTURE WATER DEPENDENT USES AND DEVELOPMENT

1. Describe what adverse impacts remain after employing all reasonable mitigation measures.

No adverse impacts remain.

2. Explain why these adverse impacts were not mitigated.

Not applicable

3. Explain why the Commission reviewing this application should find these remaining adverse impacts acceptable.

Not applicable

RACE COASTAL ENGINEERING

Azure Dee Sleicher

Azure Dee Sleicher, PE
Manager of Coastal Engineering



SECTION 4

Abutters



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SECTION 5

Site Photographs





Source: Google Earth, 2016

Photo 1: Aerial Photograph – Sasco Beach





Photo 2: Site Looking East



Photo 3: Site Looking West





Photo 4: Existing Groin Area May 2016

