APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

Applicant:

Town of Fairfield 725 Old Post Road Fairfield, CT 06824

Project Location:

South Pine Creek Beach Terminus of South Pine Creek 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
	(ITEMS BELOW TO BE	FILLED BY APPLICANT	n		
5. APPLICANT'S NAME		8. AUTHORIZED AGE	NT'S NAME A	ND TITLE	(agent is not required)
First - Middle -	Last -	First - Azure	Middle - De	e	Last - Sleicher
Company - Town of Fairfield		Company - RACE Co	oastal Engine	ering	
E-mail Address - BCarey@fairfieldc	t.org	E-mail Address - Azure	eDee@racec	oastal.co	m
6. APPLICANT'S ADDRESS:		9. AGENT'S ADDRESS	3:		
Address- 725 Old Post Road		Address- 611 Access	s Road		
City - Fairfield State - C	T Zip - 06824 Country -USA	City - Stratford	State - (CT	Zip - 06615 Country - USA
7. APPLICANT'S PHONE NOs. w/ARE	EA CODE	10. AGENTS PHONE N	NOs. w/AREA	CODE	
a. Residence b. Business		a. Residence	b. Busines	is	c. Fax
203-256-30)71		203-377-0)663	203-375-6561
	STATEMENT OF	AUTHORIZATION			
11. I hereby authorize, Azure De supplemental information in support of t		my agent in the processi	ing of this appl	lication an	nd to furnish, upon request,
SIGNATURE OF APPLICANT DATE					
NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY					
12. PROJECT NAME OR TITLE (see i South Pine Creek Regrad	,				
13. NAME OF WATERBODY, IF KNOW	NN (if applicable)	14. PROJECT STREET	ΓADDRESS (ii	f applicabl	le)
Long Island Sound		Address Terminis of	South Pine C	Creek Roa	ad
15. LOCATION OF PROJECT		City - Fairfield	St	tate- CT	Zip- 06824
Latitude: •N 41.121052	Longitude: •W 73.270881	July Tunneta			Zip 00024
16. OTHER LOCATION DESCRIPTION State Tax Parcel ID N/A	NS, IF KNOWN (see instructions) Municipality Tov	un of Fairfield			
	•				
Section - Tow	rnship -	Range -			

From I-95 Exit 21		
Head south on Mill Plain Road		
Right onto Post Road (US-Rout 1)		
Left onto South Pine Creek Road		
Continue to end of the road - Site is on the be	ach.	
18. Nature of Activity (Description of project, includ	de all features)	
See attached		
19. Project Purpose (Describe the reason or purpo	on of the project, see instructions)	
		FEMA funding following a severe coastal storm. The
proposed work will stabilize the existing beach		
proposed work will stabilize the existing office	m making it iess susceptible to erec.	ion.
USE BLOCKS 2	0-23 IF DREDGED AND/OR FILL MATE	ERIAL IS TO BE DISCHARGED
20. Reason(s) for Discharge N/A		
IN/A		
•		
21. Type(s) of Material Being Discharged and the A		
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The Application must	be signed by the person e statement in block 11 h	who desires to undertal	ke the proposed activity		
complete and accurate. applicant.	y made for permit or permit I further certify that I posse		te the work described here		
	ot restricted to zoning, build				ni 5
			10/1	1771	
CT DEEP	General Permit	GP-2015-02	N/A	N/A	N/A
AGENCY Town of Fairfield	TYPE APPROVAL* Coastal Site Plan	NUMBER N/A	DATE APPLIED To be filed	DATE APPROVED TBD	DATE DENIED TBD
	cates or Approvals/Denials	eceived from other Federal IDENTIFICATION			
City -		State -	Zip -		
e. Address-					
City -		State -	Zip -		
d. Address-					
City -		State -	Zip -		
c. Address-					
City - Fairfield		State - CT	Zip - 06	5824	
b. Address- 10-10 Pir	ne Creek Avenue				
City - Fairfield		State - CT	Zip - 06	5824	
a Address- 1410 Sou	uth Pine Creek Road				
25. Addresses of Adjo	ining Property Owners, Les	sees, Etc., Whose Property	Adjoins the Waterbody (if	more than can be entered here, plea	se attach a supplemental list)
N/A					
24. Is Any Portion of	the Work Already Complete	? ☐ Yes ☒No IF YE	S, DESCRIBE THE COMP	PLETED WORK	

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.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States

and the state of t

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SECTION 2

Drawings

SOUTH PINE CREEK BEACH **ENGINEERED BEACH DESIGN** SOUTH PINE CREEK ROAD FAIRFIELD, CT

LIST OF DRAWINGS

DRAWING NO. DRAWING NAME

TITLE SHEET, DRAWING LIST & VICINITY MAP

SITE PLAN



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

FOR REGULATORY REVIEW NOT FOR CONSTRUCTION

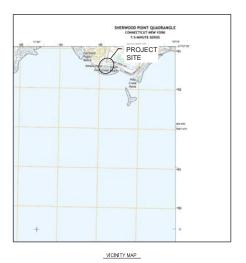
CONSERVATION DEPT TOWN OF FAIRFIELD 725 OLD POST RD FAIRFIELD, CT 06824

SOUTH PINE CREEK BEACH ENGINEERED BEACH DESIGN SOUTH PINE CREEK ROAD FAIRFIELD, CT

TITLE SHEET, DRAWING LIST & VICINITY MAP

Designed By:		Date:
	JAP	3/22/2017
Drawn By:		Scale:
	JAP	As Notes
Checked By:		Project Number:
	ADS	201644
CAD File:		Drawing No.:
SPCDWS		
		1

3/22/2017







AERIAL PHOTO

PROJECT NOTES

DESCRIPTION OF WORK.

THE MORK COVERED INDER THESE CONTRACT DOCUMENTS. INCLUDING THE DOMANISO, CRIEDAL MOTES, AND SET OF CONTRACT SOURCES AND MATERIALS AND IN PERFORMING ALL OPERATIONS IN CONNECTION INTIL ALL DATE. AND IN PERFORMING ALL OPERATIONS IN CONNECTION INTIL AT LEAST, BUT NOT NECESARILY LIMITED TO, THE FOLLOWIS ITEMS.

REGRADE BEACH TO ENGINEERED SLOPES AND SPECIFICATIONS.

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

GENERAL NOTES:

- ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATIM OF 1988 (NAVD 88).
- TOPOGRAPHY TAKEN IN PART FROM DRAWING TITLED "TOPOGRAPHIC SURVEY," DATED JULY 12, 2016 PREPARED BY GESICK & ASSOCIATES, P.C.
- SUPPLEMENTAL SITE INFORMATION OBTAINED BY RACE COASTAL ENGINEERING, LLC ON MAY 25, 2016.
- HYDROGRAPHIC SURVEY DATA OBTAINED BY RACE COASTAL ENGINEERING, LLC ON JUNE 16, 2016 AND ONLY REPRESENTS THE SITE CONDITIONS AT THAT TIME.
- . WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LANS AND STATUTES AND THE REQUIREMENTS AND CONDITIONS OF ALL REGULATORY PERMITS ISSUED FOR THE WORK.
- DAVINGOS SHALL BE USED IN COLLECTION HITH THE MEET EXAMINES SHALL BE USED IN COLLECTION HITH THE DESCRIPTION OF RESIDENCE IN ECCURRACION IS ADVISED THAT THE MOSE PERSON. IN ECCURRACION IS ADVISED THAT THE MOSE PERSON HIS MOSE PERSON HIS MOSE AND THE ART ADVISED HIS MOSE THE DESCRIPTION HIS CONTRACTOR IS OFFICIAL SHALL BE CONTRACTOR IN CONTRACTOR TO MOSE PERSON HIS MOSE PERSON HIS
- EXISTING CONDITIONS AND DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND FABRICATION OF ORDERING OF ANY CONSTRUCTION MATERIALS.
- SECTIONS AND DETAILS APPLY TO SAME AND SIMILAR CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
- (O. DAMAGE TO ANY PROPERTY, REVIATE OF OF FIBILIC TRUST, CCURRING DURING THE CONSTRUCTION BY THE CONTRACTOR, SHALL BE THE RESPONDEDLITY OF THE CONTRACTOR AND SHALL BE REPRESENDED TO THE SATISFACTION OF THE OWNER AT THE EMPRESE OF THE CONTRACTOR.
- 12. THE CONTRACTOR SHALL USE ADECIDATE NUMBERS OF SKILLED MORROWN HIND ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS AND HIND ARE COMPLIENT, FAMILIAR NITH THE SPECIFIED RECIPIED WHITE AND METHODS NEEDED FOR PROPER REPORTMANCE OF THE WORK.
- 13. THE CONTRACTOR SHALL USE EQUIPMENT ADEQUATE IN SIZE, CAPACITY, AND NUMBERS, AND MAINTAINED TO THE REQUIREMENTS OF ALL FEDERAL, STATE, AND LOCAL LANS AND RESULATIONS TO ACCOMPLISH THE WORK.
- THE CONTRACTOR SHALL PROTECT WETLANDS AND COASTAL RESOURCES FROM INTRUSION BY TURBID WATERS, CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, OR PERSONNEL DURING WORK ACTIVITIES.
- FERSONEL DURING HOME ACTIVITIES.

 THE CONTRACTOR SHALL INCLUDE IN HIS CONTRACT SIM THE COST FOR ALL, RECESSARY FERMITS, LICENSES, CERTIFICATES COST FOR ALL RECESSARY FERMITS, LICENSES, CERTIFICATES COST FOR ALL RECESSARY FOR A CONTRACT, THE CORRECT HOME CONTRACT, THE COST FOR ALL RECESSARY FOR A CONTRACT COST FOR ALL RECESSARY FOR A CONTRACT COST FOR ALL RECESSARY FOR A CONTRACT COST FOR A CONTRACT COST

- I6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT FROM DAMAGE UTILITIES, UTILITY STRUCTURES, FUEL LINES & TANKS OR ANY UNKNOWN UTILITIES OR STRUCTURES PRIOR TO ANY WORK.
- IT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP A CLEAN & TIDY WORK SITE. THE SITE SHALL BE LEFT NEAT & CLEAN AT THE END OF EACH WORK DAY
- ID. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE LANDSCAPING, INCLIDING BUT NOT LIMITED TO LANT, TREES, PLANTING, ETC, DAVAGED BY THE CONTRACTOR DURING THE COURSE OF THE PROJECT.
- III. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY DAMAGED PROPERTY CAUSED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO PAYEMENT, CURBING, FENCING, ETC. DAMAGED ITEMS SHALL BE REPAIRED IN KIND.

REACH NOURISHMENT

- 3. SAND SHALL MATCH THE COLOR AT THE SITE.

SPECIFICATIONS FOR DRY BEACH SAND NOURISHMENT		
U.S. STANDARD (SIEVE SIZE)	PERCENT PASSING BY (WEIGHT)	
* *	100	
#4	100-45	
*10	45-40	
#40	40-25	
#100	25-⊘	
#200	0	

- If SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE A SAND SOURCE.
- 6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PREFORM HATERIAL. TESTING TO BEQUEE THAT MATERIAL SOURCE MATCHES THE COLOR, GRAIN SUZE, AND DISTRIBUTION OF THE SHAND ON THE CONSTAL BEACH. THE SOIL PARTICLES SHALL BE ANGULAR TO SUB-ROUNDED AND CLASSIFIED SHALL BE ANGULAR TO SUB-ROUNDED AND CLASSIFIED SHALL BE ANGULAR TO SUB-ROUNDED AND PREVENT PORDING.
- THE MINIMUM SPECIFIC GRAVITY OF SOIL PARTIALS SHALL BE 2.65.
- BE 280.

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 CERTIFICATION FOR BACH (200 C.Y. DELIVERED OR FOR
 BACH CHANGE OF NATEXIAL SOURCE THAT CERTIFIES THE
 SOLI PROPOSED FOR BEACH FILL SATISFIES THE MINN
 STATED HEREIN INCLIDING GRADATION CURVES AND
 COMPUTATION SHEETS.
- IO. SAND SHALL BE FREE OF CONTAMINANTS: PCB'S, DIOXINS, HYDROCARBONS, OR OTHER TOXIC CHEMICALS & CONTRACTOR SHALL PROVIDE CERTIFICATION.
- II. CONTRACTOR SHALL PROVIDE SAMPLE AND TEST RESULTS TO THE ENGINEER FOR APPROVAL, ANY VARIATION IN THE SPECIFIED SEADATION MAY REQUIRE FLACEMENT ADDITIONAL FILL VOLUME BASED ON ENGINEERING ANALYSIS.

SELECTIVE DEMOLITION

- DEMOLISHED MATERIAL, DEEMED UNACCEPTABLE FOR REUSE, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE COMPLETELY REMOVED FROM THE JOBSITE AND DISPOSED OF IN A SAFE AND LEGAL MANNER.
- THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING THE BIID TO BECOME FAMILIAR WITH EXISTING CONDITIONS FOUND ONSITE.

EROSION 4 SEDIMENTATION CONTROLS

- I. LAND DISTURBANCE WILL BE KEPT TO A MINIMUM.
- PRIOR TO MOBILIZATION, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED.
- WHENEVER POSSIBLE, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION
- I PATERIAL SHALL BE DRY BEACH SAND PURNISHED BY THE
 A. ALL BERGISICH AND RECORDER CONTROL, VERANSES SHALL
 CORRECTOR
 AND RECORDER CONTROL THAN THE STANDARDS
 AND SEPEZIFICATION OF THE "2002 CONSECTION"
 RIN SAND OR BEACH SAND PRESENT ADDRESSED BANK
 RIN SAND OR BEACH SAND PRESENT ADDRESSED.
 - ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
 - ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS NECESSARY AND REQUIRED.
 - THE GENERAL CONTRACTOR SHALL UTILIZE APPROVED METHODSMATTERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
 - THE GENERAL CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE (IOO' MIN.) ON SITE FOR EMERGENCY PURPOSES
 - ALL DISTURBED LAW AREAS OUT OF THE MALOR CONSTRUCTION AREA THAT ARE TO BE LEFT ENVOICED FOR THE MALOR CONSTRUCTION AREA THAT ARE TO BE LEFT ENVOICED FOR THE PROPERTY USED THAT OF COVER, SEED THESE AREAS WITH PERDINAL BYTE GRASS AT THE RATE OF 40 LBS, PER ACRE (I B PER) (200 S. PT.).
 - 10. THE SERBALL CONTRACTORS O ASSISTED THE CONTRACTOR SEPARAL CONTRACTORS OF ASSISTED THE CONTRACTOR SEPARAL THE REPROSESSILLY SELLIES SPERNISHES THE INSTALLATION AND MARTIBLAGE OF CONTRACTORS OF THE SECURITY SELLIES OF THE SECURITY SELLIES OF THE CONTRACTOR OF THE PLAN SERVICE OF THE CONTRACTOR AND CONTRACTORS OF THE PLAN SERVICE OF THE CONTRACT PLAN IF THE TITLE TO THE LAND IS TRANSPERSOR OF THE CONTRACT PLAN IF THE TITLE TO THE LAND IS TRANSPERSOR.

EXCAVATION AND BACKFILLING

- THE CONTRACTOR SHALL EXCAVATE, BACKFILL, AND BRADE THE SITE TO THE ELEVATIONS AND LIMITS SHOWN AND NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION.



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

OWNERSHIP AND CONDITIONS OF USE:

THIS DRAWING IS COPYRIGHTED

REVISIO	MS:		
NO.	DESCRIPTION	BY	DAT

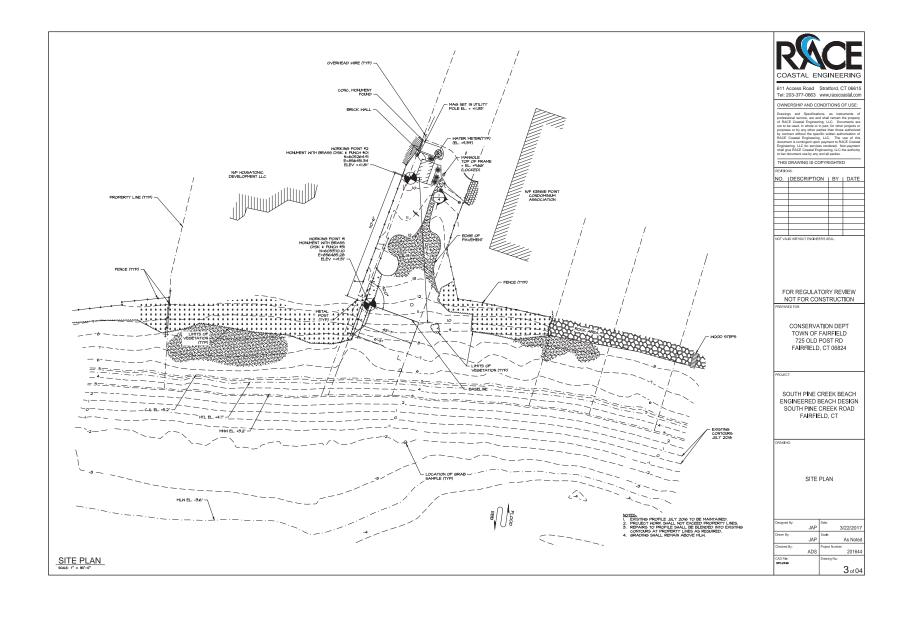
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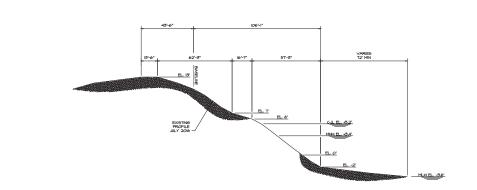
CONSERVATION DEPT TOWN OF FAIRFIELD 725 OLD POST RD FAIRFIELD, CT 06824

SOUTH PINE CREEK BEACH ENGINEERED BEACH DESIGN SOUTH PINE CREEK ROAD FAIRFIELD, CT

PROJECT NOTES

Designed By:		Date:
	JAP	3/22/2017
Drawn By:		Scale:
	JAP	As Noted
Checked By:		Project Number:
	ADS	201644
CAD File:		Drawing No.:
SPC.DNS		_
		2 of 04





SECTION 1
VERTICAL SCALE 1"-16"- HORIZONTAL SCALE 1"-80" 4

NOTE.
I. EXISTING PROFILE TO BE MAINTAINED



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

OWNERSHIP AND CONDITIONS OF USE:

_			-
_			_
			-
_			-
NOT V	VLID WITHOUT ENGINEER'S S	EAL:	

FOR REGULATORY REVIEW NOT FOR CONSTRUCTION

CONSERVATION DEPT TOWN OF FAIRFIELD 725 OLD POST RD FAIRFIELD CT 06824

SOUTH PINE CREEK BEACH ENGINEERED BEACH DESIGN SOUTH PINE CREEK ROAD FAIRFIELD, CT

SECTION

Designed By:		Date:
	JAP	3/22/2017
Drawn By:		Scale:
	JAP	As Noted
Checked By:		Project Number:
	ADS	201644
CAD File:		Drawing No.:
SPC-DH9		l .
		4 of 04

SECTION 3 Project Narrative

A. DESCRIPTION OF PROPOSED PROJECT

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

South Pine Creek Beach - Terminus of South Pine Creek Road, Fairfield, CT 06824

The site is located at the terminus of South Pine Creek Road. It is approximately 50 linear feet wide. It is a linear beach utilized by the public for recreational beach opportunities. The site is neighbored by private beaches to its east and west. The immediate adjacent beaches contain small vegetated dunes which transition into a revetment to the east and a bluff to the west. 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.

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 15)/Zone AE (El 13) according to FEMA Flood Insurance Rate Map (FIRM) Panel 09001C0557G 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 South Pine Creek site will be maintained and will not require any sand to be added or stockpiled on site at this time.

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 15)/Zone AE (El 13) according to FEMA Flood Insurance Rate Map (FIRM) Panel 09001C0557G 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 (Ammophilia 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. It is not anticipated that the beach regrading will impact the dune or beach grass it supports.

Intertidal Flats

"Intertidal Flats" are level to gently sloping areas subjected to alternating periods of tidal inundation and exposure. Sediment is variable ranging from mud to sand.

Sandy intertidal flats are found on the South Pine Creek Beach site. It is not anticipated that the proposed work will alter this resource or have a negative impact. The proposed work will take place on the sloping portion of the beach landward of the intertidal flats.

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) <u>applicable</u> 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) <u>applicable</u> 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 a 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
Ogune Dee Slenke

Azure Dee Sleicher, PE

Manager of Coastal Engineering

SECTION 4 Site Photographs



Source: Google Earth, 2016

Photo 1: Aerial Photograph – South Pine Creek Beach



Photo 2: Site Looking East



Photo 3: Site Looking West