

NEW YORK STATE DEPARTMENT OF STATE  
COASTAL MANAGEMENT PROGRAM

Federal Consistency Assessment Form

An applicant, seeking a permit, license, waiver, certification or similar type of approval from a federal agency which is subject to the New York State Coastal Management Program (CMP), shall complete this assessment form for any proposed activity that will occur within and/or directly affect the State's Coastal Area. This form is intended to assist an applicant in certifying that the proposed activity is consistent with New York State's CMP as required by U.S. Department of Commerce regulations (15 CFR 930.57). It should be completed at the time when the federal application is prepared. The Department of State will use the completed form and accompanying information in its review of the applicant's certification of consistency.

**A. APPLICANT** (please print)

1. Name: Town of Branford - Engineering Department Attn: Ms. Janice Plaziak, PE
2. Address: 1019 Main Street, 3rd Floor, Branford, CT 06405
3. Telephone: Area Code ( ) 203-315-0606

**B. PROPOSED ACTIVITY**

1. Brief description of activity:

The proposed activity is for dredging of the Stony Creek Harbor area adjacent to the Stony Creek Harbor Federal Navigation Project. Dredging is proposed within two (2) separate footprints to El. -4.0' and El. -6.0' as referenced to Mean Lower Low Water Datum (MLLW) respectively. A 1' allowable overdredge is additionally proposed in each area to ensure that base dredge depths are met. The total dredge volumes for both areas including overdredge is approximately +/-5,600.CY. The proposed dredge volumes include side slope cuts taken at a 1V:3H. The dredged material is proposed to be relocated to the Central Long Island Sound Disposal Site.

2. Purpose of activity:

The work is necessary to allow for continued vessel access in and out of the harbor areas. Existing water depths in the vicinity of the docks have become limited due to shoaling caused by normal sediment deposition from tidal currents. These facilities serve a multitude of differing marine stakeholders and uses. More specifically, the area provides dockage for the Town of Branford fire rescue boat, Thimble Islands ferry/charter services, local fisherman, marine and general contractors, as well as the general public.

3. Location of activity:

<u>New Haven</u>	<u>Branford</u>	<u>Town Dock, Commercial Float, &amp; Boat Ramp - Indian Pt Road</u>
County	City, Town, or Village	Street or Site Description

4. Type of federal permit/license required: U.S. Army Corps of Engineers State of Connecticut General Permit

5. Federal application number, if known: NAE-2010-0080

6. If a state permit/license was issued or is required for the proposed activity, identify the state agency and provide the application or permit number, if known:

**C. COASTAL ASSESSMENT** Check either "YES" or "NO" for each of these questions. The numbers following each question refer to the policies described in the CMP document (see footnote on page 2) which may be affected by the proposed activity.

- |  |  |
|--|--|
| 1. Will the proposed activity result in any of the following:  | YES/NO   |
| a. Large physical change to a site within the coastal area which will require the preparation of an environmental impact statement? (11, 22, 25, 32, 37, 38, 41, 43)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| b. Physical alteration of more than two acres of land along the shoreline, land under water or coastal waters? (2, 11, 12, 20, 28, 35, 44)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| c. Revitalization/redevelopment of a deteriorated or underutilized waterfront site? (1)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| d. Reduction of existing or potential public access to or along coastal waters? (19, 20)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| e. Adverse effect upon the commercial or recreational use of coastal fish resources? (9,10)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| f. Siting of a facility essential to the exploration, development and production of energy resources in coastal waters or on the Outer Continental Shelf? (29)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| g. Siting of a facility essential to the generation or transmission of energy? (27)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| h. Mining, excavation, or dredging activities, or the placement of dredged or fill material in coastal waters? (15, 35)  | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| i. Discharge of toxics, hazardous substances or other pollutants into coastal waters? (8, 15, 35)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| j. Draining of stormwater runoff or sewer overflows into coastal waters? (33)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| k. Transport, storage, treatment, or disposal of solid wastes or hazardous materials? (36, 39)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| l. Adverse effect upon land or water uses within the State's small harbors? (4)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 2. Will the proposed activity affect or be located in, on, or adjacent to any of the following:  | YES/NO   |
| a. State designated freshwater or tidal wetland? (44)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| b. Federally designated flood and/or state designated erosion hazard area? (11, 12, 17)  | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| c. State designated significant fish and/or wildlife habitat? (7)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| d. State designated significant scenic resource or area? (24)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| e. State designated important agricultural lands? (26)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| f. Beach, dune or barrier island? (12)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| g. Major ports of Albany, Buffalo, Ogdensburg, Oswego or New York? (3)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| h. State, county, or local park? (19, 20)  | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| i. Historic resource listed on the National or State Register of Historic Places? (23)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 3. Will the proposed activity require any of the following:  | YES/NO   |
| a. Waterfront site? (2, 21, 22)  | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| b. Provision of new public services or infrastructure in undeveloped or sparsely populated sections of the coastal area? (5)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| c. Construction or reconstruction of a flood or erosion control structure? (13, 14, 16)  | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| d. State water quality permit or certification? (30, 38, 40)   | <input checked="" type="checkbox"/> <input type="checkbox"/> |
| e. State air quality permit or certification? (41, 43)   | <input type="checkbox"/> <input checked="" type="checkbox"/> |
| 4. Will the proposed activity occur within and/or affect an area covered by a State-approved local waterfront revitalization program, or State-approved regional coastal management program? (see policies in program document*) | <input type="checkbox"/> <input checked="" type="checkbox"/> |

**D. ADDITIONAL STEPS**

1. If all of the questions in Section C are answered "NO", then the applicant or agency shall complete Section E and submit the documentation required by Section F.

2. If any of the questions in Section C are answered "YES", then the applicant or agent is advised to consult the CMP, or where appropriate, the local waterfront revitalization program document\*. The proposed activity must be analyzed in more detail with respect to the applicable state or local coastal policies. On a separate page(s), the applicant or agent shall: (a) identify, by their policy numbers, which coastal policies are affected by the activity, (b) briefly assess the effects of the activity upon the policy; and, (c) state how the activity is consistent with each policy. Following the completion of this written assessment, the applicant or agency shall complete Section E and submit the documentation required by Section F.

**E. CERTIFICATION**

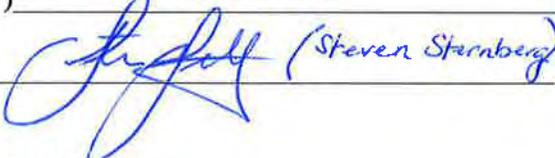
The applicant or agent must certify that the proposed activity is consistent with the State's CMP or the approved local waterfront revitalization program, as appropriate. If this certification cannot be made, the proposed activity shall not be undertaken. If this certification can be made, complete this Section.

"The proposed activity complies with New York State's approved Coastal Management Program, or with the applicable approved local waterfront revitalization program, and will be conducted in a manner consistent with such program."

Applicant/Agent's Name: Roberge Associates Coastal Engineers, LLC (RACE)

Address: 611 Access Road, Stratford, CT 06615

Telephone: Area Code ( 203 ) 377-0663

Applicant/Agent's Signature:  (Steven Sternberg) Date: 4/1/16

**F. SUBMISSION REQUIREMENTS**

1. The applicant or agent shall submit the following documents to the New York State Department of State, Office of Coastal, Local Government and Community Sustainability, Attn: Consistency Review Unit, One Commerce Plaza-Suite 1010, 99 Washington Avenue, Albany, New York 12231.

- a. Copy of original signed form.
- b. Copy of the completed federal agency application.
- c. Other available information which would support the certification of consistency.

2. The applicant or agent shall also submit a copy of this completed form along with his/her application to the federal agency.

3. If there are any questions regarding the submission of this form, contact the Department of State at (518) 474-6000.

\*These state and local documents are available for inspection at the offices of many federal agencies, Department of environmental Conservation and Department of State regional offices, and the appropriate regional and county planning agencies. Local program documents are also available for inspection at the offices of the appropriate local government. Revised 10/04/1010

This attachment to the New York State Department of State (NYS DOS) Coastal Management Program Consistency Assessment Form (FCAF), has been prepared to address the proposed maintenance dredging project at the Town Dock, Commercial Float, and Boat Ramp off Indian Point Road in Branford, CT. Specific coastal policies affected by the proposed maintenance dredging activities include the following, as referenced in the NYSDOS Long Island Sound Coastal Management Program Document (CMP):

Summary of Applicable Policies:

***Policy 1: Foster a pattern of development in Long Island Sound coastal areas that enhances community character, preserves open space, makes efficient use of infrastructure, makes beneficial use of coastal location, and minimizes adverse effects of development.***

This policy states that development in Long Island Sound should both make efficient use of infrastructure and make beneficial use of the coastal location. The proposed dredging project seeks to improve vessel operating depths within the existing Town maintained harbor areas at the end of Indian Point Road, in Branford, CT. These facilities provide for a multitude of water-dependent uses for the varying marine stakeholders that utilize the Site. More specifically, this area provides dockage for the Town operated Fire Rescue Boat, Thimble Island ferry/charter service vessels, local fisherman, marine and general contractors, as well as the general public. Additionally, these facilities are some of the only land access points for the residents of the Thimble Islands. As such, maintaining these areas and more specifically navigable depths, are of great importance.

The proposed dredge plan has been tailored to meet the specific needs of each of the waterfront areas. Specific attention was given to reducing overall dredge volumes by stepping dredge footprints to meet no more than the current demands at each of the facilities.

***Policy 5: Protect and improve water quality and supply in the Long Island Sound coastal area.***

This policy seeks to improve the water quality in Long Island Sound. It is written in Section 5.3 of the CMP that the intent of this Policy is to, "*Protect water quality of coastal waters from adverse impacts associated with excavation, fill, dredging, and disposal of dredged material*".

The proposed project will involve dredging and relocation of dredged sediment to an open water site in Long Island Sound. The Central Long Island Sound Disposal Site is the proposed relocation area for this material. As part of the CT-DEEP and ACOE permit applications for this project, alternative dredged material relocation sites were reviewed.

The sediments proposed for dredging consist mainly of fine-grained material with greater than 94% passing the #200 sieve, based on the results of a washed sieve analysis. Due to the mechanical properties associated with this type of material, use of the sediments for potential beach nourishment on the existing beach at Madera Park to the north of the Harbor, was not deemed as practical. Furthermore, such properties lack limited functional upland uses as related to structural fill, grading, etc. In addition to the lack of upland use/beach nourishment alternatives, there are no open landfill sites in the Branford area that can accommodate this type and quantity of material. For these reasons, it is requested that authorization be granted for relocation of the dredged material to the Central Long Island Sound Disposal Site (CLDS). Such request is also consistent with the recently published *Long Island Sound Dredged Material Management Plan* prepared by the ACOE which indicates that the Federal Base Plan for suitable fines in the adjacent Stony Creek Harbor Federal Navigation Project is relocation to the CLDS.

***Policy 9: Provide for public access to, and recreational use of, coastal waters, public lands, and public resources of the Long Island Sound coastal area.***

The Town Dock and Boat Ramp are available for use to the general public. The ramp is open to the public for boat launching operations. There is also temporary tie-up docking at the Town Dock for boaters in the area. Ferry service from the Town Dock is also made to Outer Island, a Stewart B. McKinney National Wildlife Refuge open to the public and owned by the U.S. Fish & Wildlife Service. The proposed dredging project will allow for continued safe and functional use of these publically used facilities.

***Policy 10: Protect Long Island Sound's water-dependent uses and promote siting of new water-dependent uses in suitable locations.***

As previously noted, the Stony Creek Harbor area provides for a multitude of water-dependent uses for varying marine stakeholders including the Town Fire Department, Thimble Island ferry/charters, local fisherman, marine and general contractors, as well as members of the public. This area is also one of the only land access points for the residents of the Thimble Islands located offshore of the Site. It is critical that adequate vessel operating depths be maintained in these areas to ensure the continued safe use of these existing water-dependent facilities and access to the Thimble Islands. Continued shoaling in the area without the proposed dredging work would adversely impact navigation and the functionality of these Sites.

**Memorandum Thru:**

Ruth M. Ladd, Chief, Policy Analysis and Technical Support Branch



Digitally signed by  
LADD.RUTH.M.1228556242  
DN: c=US, o=U.S. Government,  
ou=DoD, ou=PKI, ou=USA,  
cn=LADD.RUTH.M.1228556242  
Date: 2016.03.22 16:06:48 -0400

**For:** Lindsay Flieger, Project Manager, CENAE-R-PEB

**Subject:** Suitability Determination for the Town of Branford, Stony Creek Harbor, Branford, CT, Application Number NAE-2010-80.

**1. Summary:**

Based on an evaluation of the data that characterize the material proposed to be dredged, this memorandum addresses the suitability of that material for disposal as proposed in accordance with applicable regulations. The Marine Analysis Section (MAS) finds that the data provide sufficient information to satisfy the evaluation and testing requirements of the appropriate regulations. These sediments are suitable for unconfined open water disposal at the Central Long Island Sound Disposal Site (CLDS) as proposed.

**2. Project Description:**

The applicant is proposing to dredge two basins, one adjacent to the town dock and the other around the commercial float. These two basins comprise a total area of approximately 37,080 sq. ft. They will be dredged to depths of -1.5' MLW to -4.5' MLW in Branford, CT. A volume of approximately 5,600 cu. yds. would be produced. The applicant proposes to mechanically dredge this material and dispose of it at CLDS.

**3. Sampling and Testing:**

MAS prepared a sampling plan for this project on 6 October 6, 2015. The plan called for five cores (B-1 through B-5) to be taken from the project area. Bulk sediment chemistry analyses were conducted on each individual core sample.

Comparison to CLDS Reference Values

**Metals:** In all of the project sediment samples, the metal concentrations were below or near the means plus twice the standard deviations of the contaminant concentrations found at the CLDS reference site. See the attached spreadsheets for details.

**PAHs:** In all of the project sediment samples, the PAH concentrations were below or near the means plus twice the standard deviations of the contaminant concentrations found at the CLDS reference site.

CENAE-R-PT

SUBJECT: Suitability Determination for the Town of Branford, Stony Creek Harbor, Branford, CT, Application Number NAE-2010-80.

**PCBs/Pesticides:** For PCBs and pesticides, the contaminant concentrations in the project were near or below the analytical detection limits in all of the project sediment samples tested. See the attached spreadsheets for details.

**4. Regulations governing the determination of the suitability of dredged material for open-water disposal:**

The disposal seaward of the high tide line in Long Island Sound of less than 25,000 cubic yards of dredged material from private projects is regulated under Section 404 of the Clean Water Act (CWA).

Subpart G of the Section 404(b)(1) guidelines (40 CFR Section 230.60 and 230.61) describes the procedures for determining the suitability of this material for open-water disposal, including any relevant testing that may be required.

40 CFR 230.60 General Evaluation of Dredged or Fill Material

(a) This subsection states that further testing may not be necessary if it could be determined with the evaluation under paragraph (b) that the sediment is not a carrier of contaminants. Dredged or fill material is most likely to be free from pollutants when it is composed primarily of sand, gravel or other naturally occurring inert material.

Based upon our Tier 1 review, the proposed dredge sediment is **not** primarily sand, gravel or other inert material so this subsection does **not** apply. Also, our Tier 1 review evaluation under paragraph (b) below indicates the proposed dredge sediment is likely to be a carrier of contaminants, so this subsection does **not** apply.

(b) This subsection states that the site should be evaluated to determine whether it is sufficiently removed from sources of pollution. These factors include records of spills or potential routes of contamination, like outfall pipes. Eight spills have occurred in the vicinity the largest of which was a 10 gallon gasoline spill at the Town Dock.

(c) This subsection states that further testing may not be necessary if certain conditions and circumstances make it unlikely that the dredged material would degrade the disposal site. For the project to meet this exclusion, the material to be dredged and the material at the disposal site must be adjacent to each other **and** composed of the same materials **and** subject to the same sources of contaminants. As the project site is not adjacent to the disposal site, this exclusion does not apply to this project.

CENAE-R-PT

SUBJECT: Suitability Determination for the Town of Branford, Stony Creek Harbor, Branford, CT, Application Number NAE-2010-80.

(d) This subsection states that further testing may not be necessary if the material to be dredged is constrained, both to reduce contamination within the disposal site and to prevent transport of contaminants beyond the boundaries of the disposal site. As such constraints in handling are not proposed, this subsection does not apply.

#### 40 CFR 230.61 Chemical, Biological and Physical Evaluation and Testing

(a) This subsection describes the purpose of Part 230.61 and does not give any criteria for the evaluation of sediments.

(b) This subsection states that dredged material may be excluded from testing for water column effects and benthic bioassays if it is determined, by evaluation under 40 CFR Part 230.60, that the likelihood of contamination levels that could exert ecological impacts (as defined in Part 230.61) is acceptably low. Such testing is not needed, as it was determined, based on evaluation under Part 230.61(c), that the likelihood of contamination high enough to reach these levels is low.

(c) This subsection states that an inventory of the concentrations of the contaminants of concern would aid in an environmental assessment of the impact of their disposal on the designated disposal site. Such an inventory was performed at the dredge site. See Section 3 above and the attached spreadsheets for details. The dredged materials should have minimal impact at the disposal site. CENAE and the federal agencies did not think an analysis of biological community structure was needed for this project.

(d) This subsection states the importance of the disposal of dredged materials on the characteristics of the physical substrate. MAS determined that the likelihood of physical effects from the disposal of the dredged material at the disposal site should be minimal. Although some benthic marine organisms will be buried by the disposal of the project materials, the disposal site should be rapidly re-colonized.

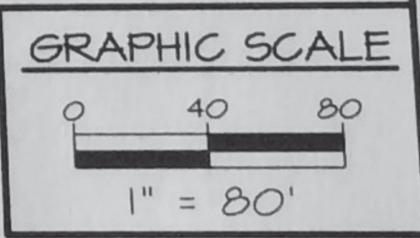
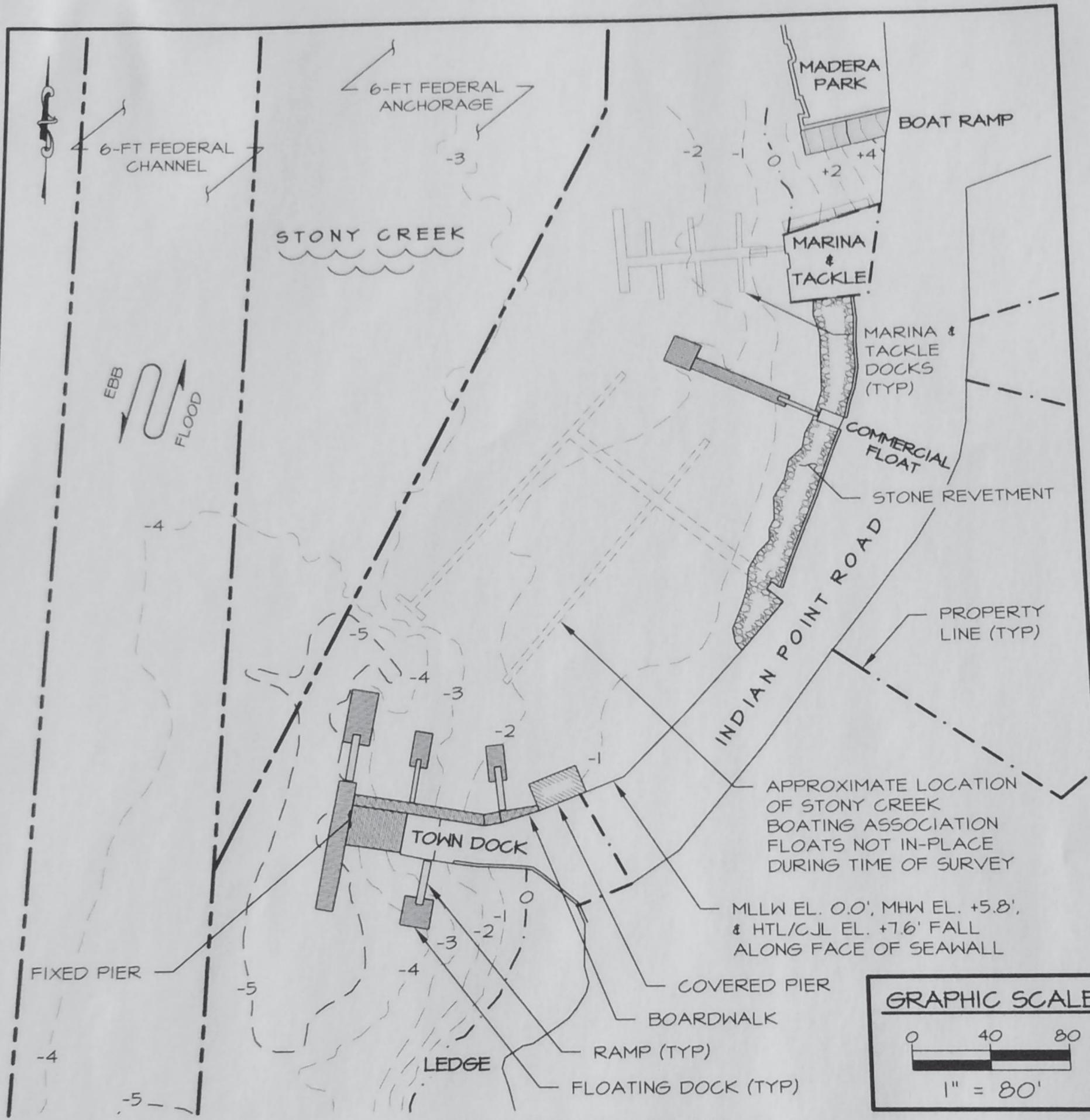
5. Copies of this determination were sent to the CTDEEP and the USEPA. EPA concurred with the determination. CTDEEP requested sequential disposal of the materials from project area represented by Cores 4 and 5 first, followed by the balance of the material. The Corps believes that its determination of disposal without a sequencing plan is sufficient management option. The CTDEEP may request further disposal management for its certification.

CENAE-R-PT

SUBJECT: Suitability Determination for the Town of Branford, Stony Creek Harbor, Branford, CT, Application Number NAE-2010-80.

6. If you have any questions, please contact me at (978) 318-8336 or [charles.n.farris@usace.army.mil](mailto:charles.n.farris@usace.army.mil).

CHARLES N. FARRIS  
Project Manager,  
Marine Analysis Section



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**EXISTING PARTIAL PLAN**

NOT FOR CONSTRUCTION FOR REGULATORY REVIEW ONLY

DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 80'
DATE:	8/25/2015
REV:	
PROJECT #:	201512

FOR SAP REQUEST ONLY

NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:	TOWN OF BRANFORD TOWN DOCK, COMMERCIAL FLOAT, & BOAT RAMP DREDGING STONY CREEK - L.I.S.
APPLICANT:	TOWN OF BRANFORD ENGINEERING DEPARTMENT 1019 MAIN STREET, 3RD FLOOR BRANFORD, CT 06405

RACE

ROBERGE ASSOCIATES  
Coastal Engineers, LLC

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

DRAWING NO. 4 of 8



**EXISTING SITE PLAN**

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NOT FOR CONSTRUCTION FOR REGULATORY REVIEW ONLY

DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 200'
DATE:	8/25/2015
REV:	
PROJECT #:	201512

SEAL:

**FOR SAP REQUEST ONLY**

NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:

TOWN OF BRANFORD  
TOWN DOCK, COMMERCIAL FLOAT,  
& BOAT RAMP DREDGING  
STONY CREEK - L.I.S.

APPLICANT:

TOWN OF BRANFORD  
ENGINEERING DEPARTMENT  
1019 MAIN STREET, 3RD FLOOR  
BRANFORD, CT 06405

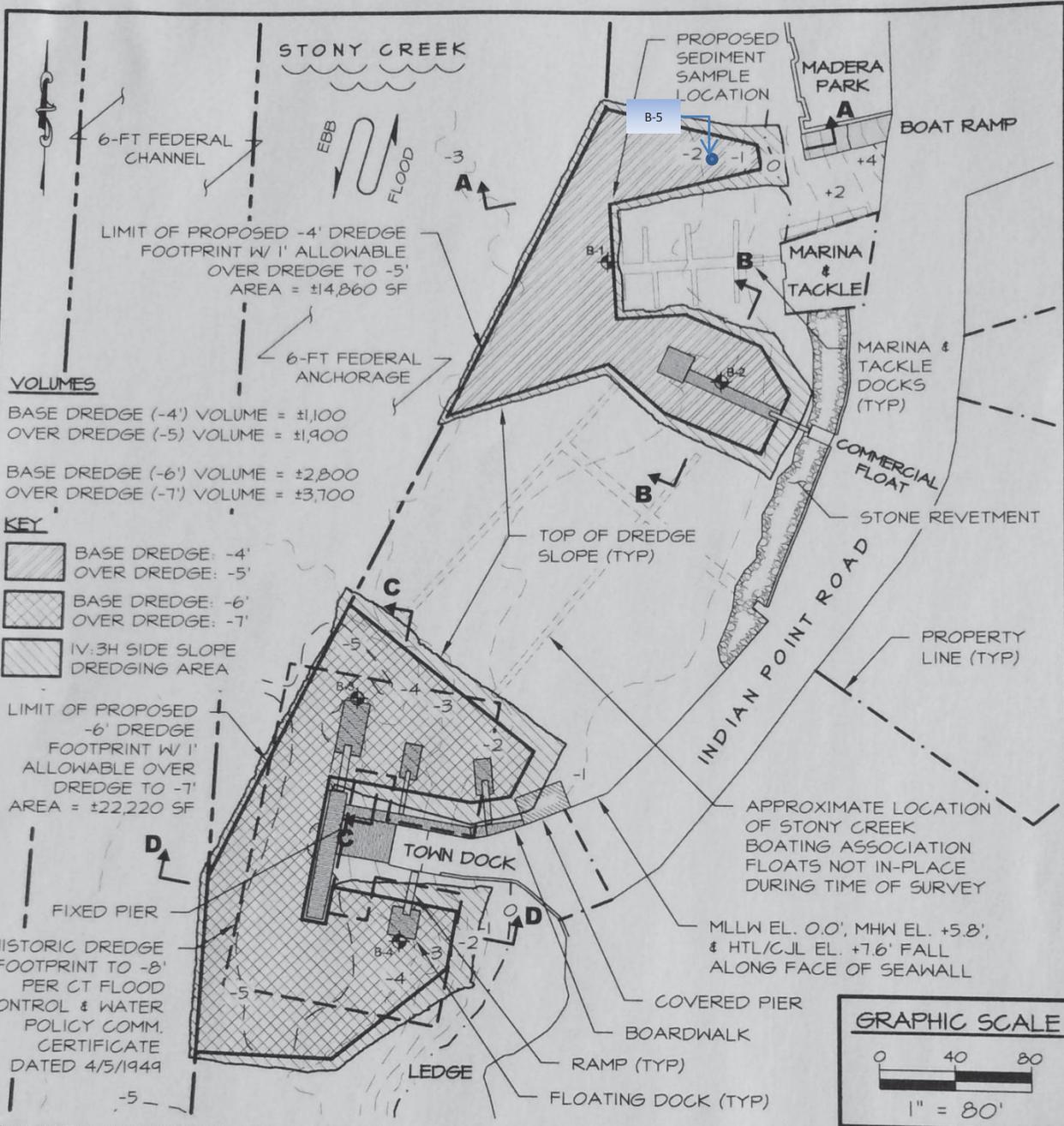
**RACE**

ROBERGE ASSOCIATES  
Coastal Engineers, LLC

611 Access Road  
Tel: 203-377-0663

Stratford, CT 06615  
www.racellc.com

DRAWING NO. 3 of 8



**VOLUMES**

BASE DREDGE (-4') VOLUME = ±1,100  
 OVER DREDGE (-5) VOLUME = ±1,900

BASE DREDGE (-6') VOLUME = ±2,800  
 OVER DREDGE (-7') VOLUME = ±3,700

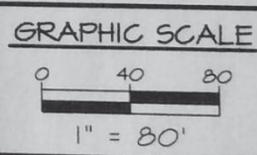
**KEY**

- BASE DREDGE: -4'  
OVER DREDGE: -5'
- BASE DREDGE: -6'  
OVER DREDGE: -7'
- 4:1 SIDE SLOPE  
DREDGING AREA

LIMIT OF PROPOSED  
 -6' DREDGE  
 FOOTPRINT W/ 1'  
 ALLOWABLE OVER  
 DREDGE TO -7'  
 AREA = ±22,220 SF

**PROPOSED DREDGE PLAN**

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NOT FOR CONSTRUCTION  
 FOR REGULATORY REVIEW ONLY

DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 80'
DATE:	8/25/2015
REV:	
PROJECT #:	201512

FOR SAP  
REQUEST  
ONLY

NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:

TOWN OF BRANFORD  
 TOWN DOCK, COMMERCIAL FLOAT,  
 & BOAT RAMP DREDGING  
 STONY CREEK - L.I.S.

APPLICANT:

TOWN OF BRANFORD  
 ENGINEERING DEPARTMENT  
 1019 MAIN STREET, 3RD FLOOR  
 BRANFORD, CT 06405

RACE

ROBERGE ASSOCIATES  
 Coastal Engineers, LLC

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Stratford, CT 06615  
 www.racellc.com

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X			
1	Normalized pollutant concentrations																										
2	Project																										
3																											
4	Branford, Town of - Stony Creek																										
5	NAE-2010-80																										
6		CLDS		B-1					B-2				B-3				B-4				B-5						
7	Metals (ppm)	mean + 2sd		Raw Data	Normalized		Compare		Raw Data	Normalized		Compare		Raw Data	Normalized		Compare		Raw Data	Normalized		Compare		Raw Data	Normalized	Compare	
8	Arsenic	6.3		3.6		OK	0.5714286		3.6		OK	0.5714286		3.6		OK	0.5714286		4		OK	0.6349206		9.4		*	1.4920635
9	Cadmium	0.28		0.015		OK	0.0535714		0.015		OK	0.0535714		0.015		OK	0.0535714		0.015		OK	0.0535714		0.015		OK	0.0535714
10	Chromium	45.1		14.3		OK	0.3170732		15.1		OK	0.3348115		15.1		OK	0.3348115		13.5		OK	0.2993348		39.3		OK	0.8713969
11	Copper	42.1		20.8		OK	0.4940618		29		OK	0.6888361		21.2		OK	0.5035629		23.3		OK	0.5534442		91.8		*	2.1805226
12	Lead	82.2		10.5		OK	0.1277372		14.7		OK	0.1788321		10.8		OK	0.1313869		10.1		OK	0.122871		24.6		OK	0.2992701
13	Mercury	0.165		0.11		OK	0.6666667		0.16		OK	0.969697		0.11		OK	0.6666667		0.14		OK	0.8484848		0.21		*	1.2727273
14	Nickel	41		8.7		OK	0.2121951		8.7		OK	0.2121951		8.7		OK	0.2121951		7.3		OK	0.1780488		18.6		OK	0.4536585
15	Zinc	181		38.4		OK	0.2121547		49.4		OK	0.2729282		37.3		OK	0.2060773		40.1		OK	0.221547		128		OK	0.7071823
16																											
17	% fines			96.5					97.2					94.3											97.6		
18	PAH's (ppb)																										
19	Fluorene	20		2	0.68	OK	0.0340136		21	7.28	*	0.3639515		4	1.61	OK	0.0806452		87	24.37	*	1.2184874		35	14.80	*	0.7399577
20	Phenanthrene	183		38	12.93	OK	0.0706293		216	74.87	*	0.4091258		36	14.52	OK	0.0793231		473	132.49	*	0.7240054		357	150.95	*	0.8248709
21	Anthracene	56		11	3.74	OK	0.0668124		51	17.68	OK	0.3156722		11	4.44	OK	0.0792051		154	43.14	*	0.7703081		67	28.33	*	0.5058895
22	Naphthalene	94		8	2.72	OK	0.0289477		18	6.24	OK	0.0663741		8	3.23	OK	0.0343171		25	7.00	OK	0.0744979		18	7.61	OK	0.080968
23	Acenaphthylene	39		3	1.02	OK	0.0261643		42	14.56	*	0.3732836		3	1.21	OK	0.0310174		35	9.80	OK	0.2513826		57	24.10	*	0.6179867
24	Acenaphthene	12		3	1.02	OK	0.085034		8	2.77	OK	0.2310803		3	1.21	OK	0.1008065		40	11.20	*	0.9337068		9	3.81	OK	0.3171247
25																											
26	Fluoranthene	320		113	38.44	OK	0.1201105		568	196.88	*	0.6152513		98	39.52	OK	0.1234879		776	217.37	*	0.6792717		756	319.66	*	0.9989429
27	Pyrene	459		756	257.14	*	0.5602241		506	175.39	*	0.3821132		98	39.52	OK	0.0860918		751	210.36	*	0.4583097		766	323.89	*	0.7056428
28	Benzo(a)anthracene	194		41	13.95	OK	0.0718844		190	65.86	OK	0.3394736		35	14.11	OK	0.0727469		257	71.99	*	0.3710763		279	117.97	*	0.6080949
29	Chrysene	217		54	18.37	OK	0.0846422		283	98.09	*	0.4520442		49	19.76	OK	0.091051		377	105.60	*	0.4866463		406	171.67	*	0.7911069
30	Total Benzofluoranthenes	446		81	27.55	OK	0.0617736		382	132.41	OK	0.2968812		80	32.26	OK	0.0723275		442	123.81	OK	0.2775998		520	219.87	*	0.4929891
31	Benzo(a)pyrene	217		46	15.65	OK	0.0721026		212	73.48	OK	0.3386338		39	15.73	OK	0.0724692		247	69.19	*	0.3188372		260	109.94	*	0.5066202
32	Dibenzo(a,h)anthracene	12		4	1.36	OK	0.1133787		48	16.64	*	1.3864818		4	1.61	OK	0.1344086		56	15.69	*	1.3071895		65	27.48	*	2.2903453
33	Benzo(g,h,i)perylene	216		34	11.56	OK	0.0535399		162	56.15	OK	0.2599653		35	14.11	OK	0.0653375		166	46.50	OK	0.2152713		180	76.11	OK	0.3523608
34	Ideno(123-cd)pyrene	92		30	10.20	OK	0.1109139		146	50.61	*	0.5500716		28	11.29	OK	0.1227209		163	45.66	*	0.4962855		174	73.57	*	0.7997059
35																											
36	TOC			2.94					2.885					2.48						3.57					2.365		
37																											
38	Sum of PAH's			1224					2853					531						4049					3949		
39																											
40	* = > mean + 2sd																										
41	ok = <mean + 2sd																										

CONNECTICUT GENERAL PERMIT  
MEMO FOR THE RECORD

CATEGORY 2 ACTIVITY

I. General Information:

Applicant: Town of Branford, CT-Stony Creek Municipal dock Application No: NAE-2010-00080  
Section: 404  10  Location of Work: Stony Creek, Indian Point Road, Branford, CT  
Description of Work: to maintenance dredge two areas in Stony Creek, Branford, CT. The first area is adjacent to the commercial float and is approximately 14,900 SF. The applicant proposes to dredge approximately 1,110 CY of material to a depth of -4.0' MLW and 1,900 CY of material to a depth of -5.0' MLW for overdredge. The second area is adjacent to the Town Dock and approximately 22,200 SF. The applicant plans to dredge 2,800 CY of material to a depth of -6.0' MLW and 3,700 CY of material to a depth of -7.0' MLW for overdredge. The material will be mechanically dredged and disposed of at the Central Long Island Sound Disposal Site (CLDS).

PM: Lindsay Flieger

Screening Mtg. Date: Feb 3, 2016

II. Other permits/approvals/coordination:

- a. WQC:  not required  pending  issued  
b. CZM:  not required  pending  issued  
c. Coordination with SHPO/THPO:  yes  No  
d. MAS coordination:  not required  complete  
e. PM's checked:  
o <http://www.dep.state.ct.us/cgnhs/index.htm> or <http://ecos.fws.gov/ipac/>  Yes  No  
o Endangered Species Present: NMFS  Yes  No  
o F&WS:  Yes  No  
o Coordinated with NMFS/F&WS:  Yes  No  
f. Essential Fish Habitat Present:  Yes  No

\* Based on the terms and conditions of the PGP, which are intended to ensure that authorized projects cause no more than minimal environmental impacts, the Corps has preliminarily determined that this project will not cause more than minimal adverse effects to **Essential Fish Habitat** identified under the Magnuson-Stevens Fisheries Conservation and Management Act.

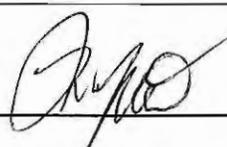
g. Special Conditions to Minimize Adverse Effects: \_\_\_\_\_

III. Comments

	<u>Further Review</u>	<u>Comments/Recommendations</u>
EPA	_____	_____
NMFS	_____	_____
CZM	_____	_____
CT 401	_____	_____

Initial Agency comments due within 15 days of the screening meeting date

Additional Comments: \_\_\_\_\_

STAFFING:  Robert J. DeSista, Branch Chief

#### IV. Review of Terms of General Permit:

Fill/Excavation (temporary and permanent) and secondary impacts:

- 5,000 s.f. to 1 acre inland or <1 acre coastal
- Temporary salt marsh disturbance <1 acre
- Integrated marsh management/open marsh management/restoration
- Dam, dike, water diversion or water withdrawal
- Wetland Restoration Project
- Beach nourishment (placed above mean high water)
- Bridge Work (causeways and approach fills)

Bank stabilization along non-tidal waterways:

- >200 linear feet- inland
- >1 cubic yards per linear foot- inland
- Includes fill in inland wetlands

Repair/Maintenance: (previously authorized or grandfathered)

- Serviceable - Repair of structure/fill w/ expansion up to 1 acre
- Change in use
- Non-Serviceable - Repair of structures and replacement of fill w/expansion up to 1 acre)
- Pond Maintenance activities

Dredging: (Upland disposal, Open-water disposal <25,000 c.y., CAD cell disposal or beach nourishment (material placed above mean high water), provided material is determined to be suitable for disposal at the specified site by the Corps). **No dredging in special aquatic sites.**

- Maintenance dredging that doesn't meet Cat 1
- New dredging
- Improvement dredging

Moorings:

- Moorings that do not meet CAT 1 or those that are located in a federal anchorage

Structures:

- Private pier or float that exceeds CAT 1
- New structures within existing boating facility
- Aquaculture Projects

Miscellaneous:

- Other Sec. 10 work; work type \_\_\_\_\_

(PMs BE SURE AND SEND NOAA & SURVEY BRANCH A FINAL GP FOR SUBMERGED UTILITY LINE CROSSINGS SO THEY CAN POST ON CHARTS)

**V. Preliminary Jurisdictional Determination:**

Coastal Projects:

The State of Connecticut has performed a preliminary JD with which the Corps concurs.

Inland Projects:

Our preliminary determination of jurisdiction is that the aquatic resources within the review area are waters of the United States due to the presence of: (Check all that apply)

- TNWs, including territorial seas
- Wetlands adjacent to TNWs
- Relatively permanent waters (RPWs) that flow directly or indirectly into TNWs
- Non-RPWs that flow directly or indirectly into TNWs
- Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- Wetlands adjacent to non-RPWs
- Wetland adjacent to but not abutting (e.g. neighboring) RPW
- Impoundments in jurisdictional waters

**Overall review of application:**

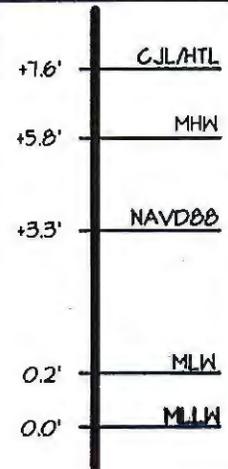
- Adverse environmental impacts are minimal both individually and cumulatively.
- PM has verified that the three criteria for wetland delineation have been met
- Federal jurisdictional boundaries used (OHW, MHW, HTL) and verified
- There are no impacts to a federal navigation project.
- Application pertains to a single and complete project.
- EIS not required by Corps.

# TOWN OF BRANFORD TOWN DOCK, COMMERCIAL FLOAT, & BOAT RAMP DREDGING

## DRAWING LIST

DRAWING No.	DRAWING TITLE	DATE	REV
1	TITLE SHEET & GENERAL NOTES	1/5/2016	0
2	VICINITY MAP	1/5/2016	0
3	EXISTING SITE PLAN	1/5/2016	0
4	EXISTING PARTIAL PLAN	1/5/2016	0
5	PROPOSED DREDGE PLAN	1/5/2016	0
6	DREDGE TOE COORDINATE PLAN	1/5/2016	0
7	SECTIONS A-A & B-B	1/5/2016	0
8	SECTIONS C-C & D-D	1/5/2016	0

### ELEVATION INFORMATION



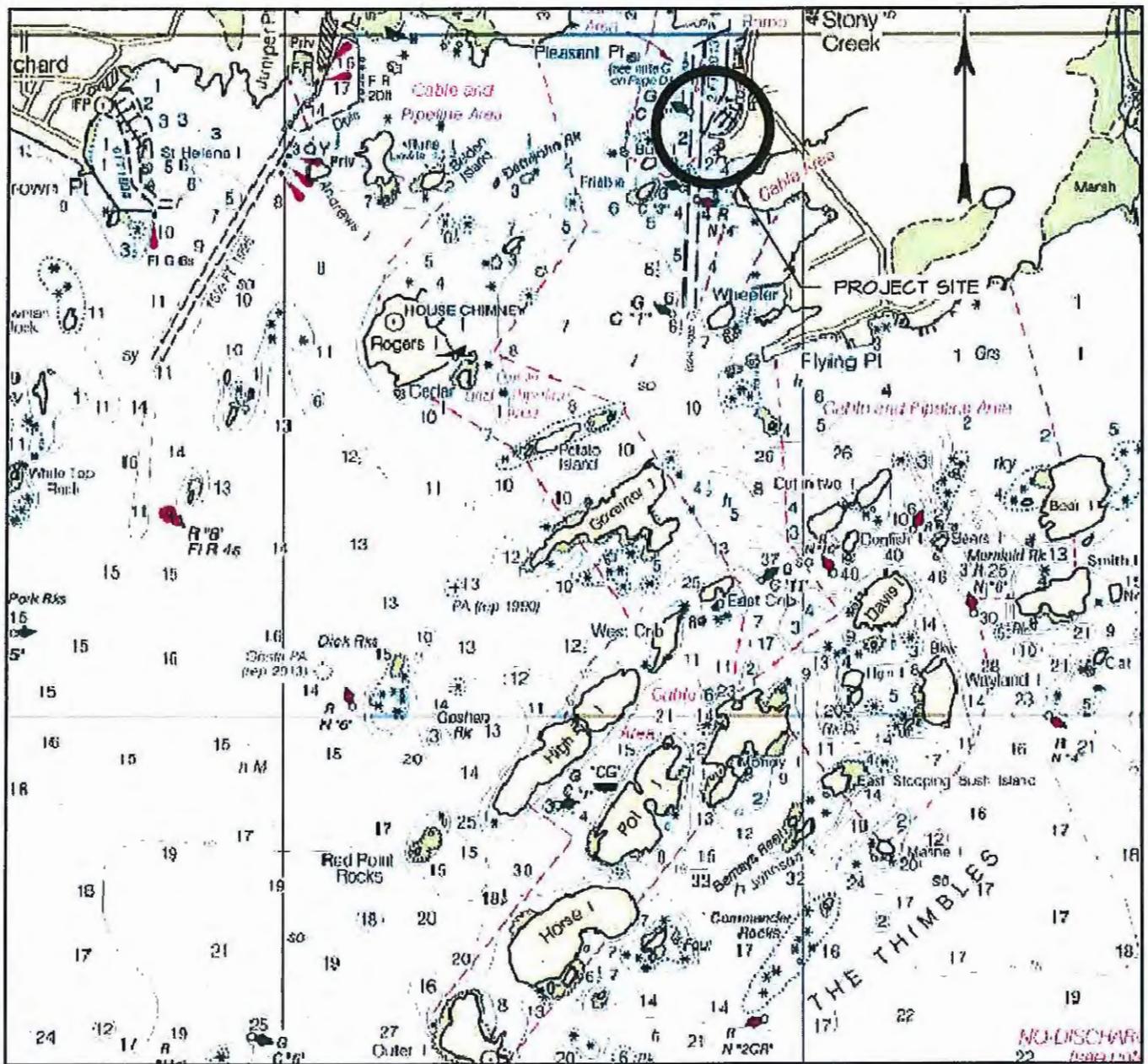
### GENERAL NOTES:

1. THE PURPOSE OF THESE DRAWINGS IS FOR PERMIT APPLICATIONS ONLY. DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION.
2. PARCEL AND APPROXIMATE SHORELINE INFORMATION TAKEN FROM TOWN OF BRANFORD ONLINE GIS SERVICES ON 8/25/2015.
3. THE LOCATION OF FLOATING DOCKS AND SHORELINE STRUCTURES WERE FIELD LOCATED BY ROBERGE ASSOCIATES COASTAL ENGINEERS, LLC (RACE) ON 5/6/2015 UTILIZING A REAL TIME KINEMATIC GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS).
4. THE LOCATION OF THE STONY CREEK BOATING ASSOCIATION DOCKS WERE TAKEN FROM A DRAWING TITLED, "STONY CREEK, BRANFORD, CONNECTICUT, CONDITIONS SURVEY, 6-FOOT CHANNEL AND MANEUVERING BASIN", DATED 9/23/2013, BY THE US ARMY CORPS OF ENGINEERS (ACOE).
5. HYDROGRAPHIC SURVEY PERFORMED BY RACE ON 5/6/2015 AND CAN ONLY REPRESENT THE CONDITIONS AT THE TIME OF THE SURVEY.
6. ELEVATIONS REFERENCE MEAN LOWER LOW WATER (MLLW), UNLESS NOTED OTHERWISE.
7. CONVERSION FROM THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) TO MLLW TAKEN AS +3.30' PER ACOE CONDITION SURVEY OF STONY CREEK, BRANFORD, CT.
8. VICINITY MAP TAKEN FROM NOAA CHART 12372, 36TH Ed., LAST CORRECTION: 8/5/2015.
9. CONSTRUCTION METHODOLOGY, CONSTRUCTION SEQUENCE, AND TEMPORARY WORK, DEVELOPED BY THE CONTRACTOR, SHALL BE IN ACCORDANCE WITH THE CT-DEEP PERMIT.

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<b>DRAWN BY:</b> SCS	<b>SEAL:</b>	<b>PROJECT:</b>	
<b>CHECKED BY:</b> DJS		TOWN OF BRANFORD TOWN DOCK, COMMERCIAL FLOAT, & BOAT RAMP DREDGING STONY CREEK - L.I.S.	
<b>DATUM:</b> N/A		<b>APPLICANT:</b>	
<b>SCALE:</b> N/A		TOWN OF BRANFORD ENGINEERING DEPARTMENT 1019 MAIN STREET, 3RD FLOOR BRANFORD, CT 06405	
<b>DATE:</b> 1/5/2016		611 Access Road      Stratford, CT 06615 Tel: 203-377-0663      www.racelfc.com	
<b>REV:</b>		NOT VALID WITHOUT ENGINEER'S SEAL	
<b>PROJECT #:</b> 201512	<b>DRAWING NO. 1 of 8</b>		



VICINITY MAP

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DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 1,400'
DATE:	1/5/2016
REV:	
PROJECT #:	201512



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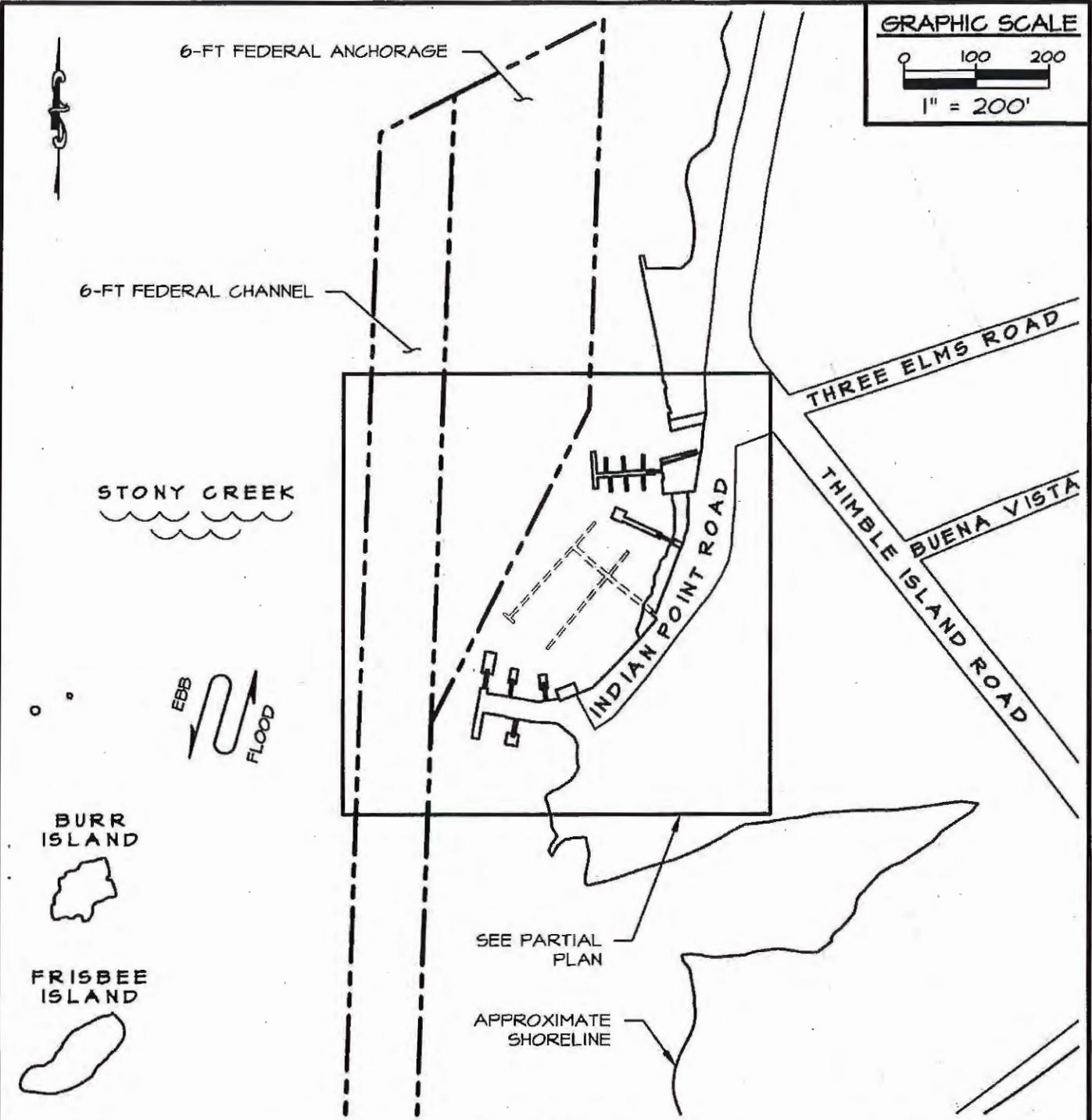
PROJECT:  
TOWN OF BRANFORD  
TOWN DOCK, COMMERCIAL FLOAT,  
& BOAT RAMP DREDGING  
STONY CREEK - L.I.S.

APPLICANT:  
TOWN OF BRANFORD  
ENGINEERING DEPARTMENT  
1019 MAIN STREET, 3RD FLOOR  
BRANFORD, CT 06405

**RACE**  
ROBERGE ASSOCIATES  
Coastal Engineers, LLC

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DRAWING NO. 2 of 8



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**EXISTING SITE PLAN**

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DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 200'
DATE:	1/5/2016
REV:	
PROJECT #:	201512

SEAL:

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PROJECT:

TOWN OF BRANFORD  
TOWN DOCK, COMMERCIAL FLOAT,  
& BOAT RAMP DREDGING  
STONY CREEK - L.I.S.

APPLICANT:

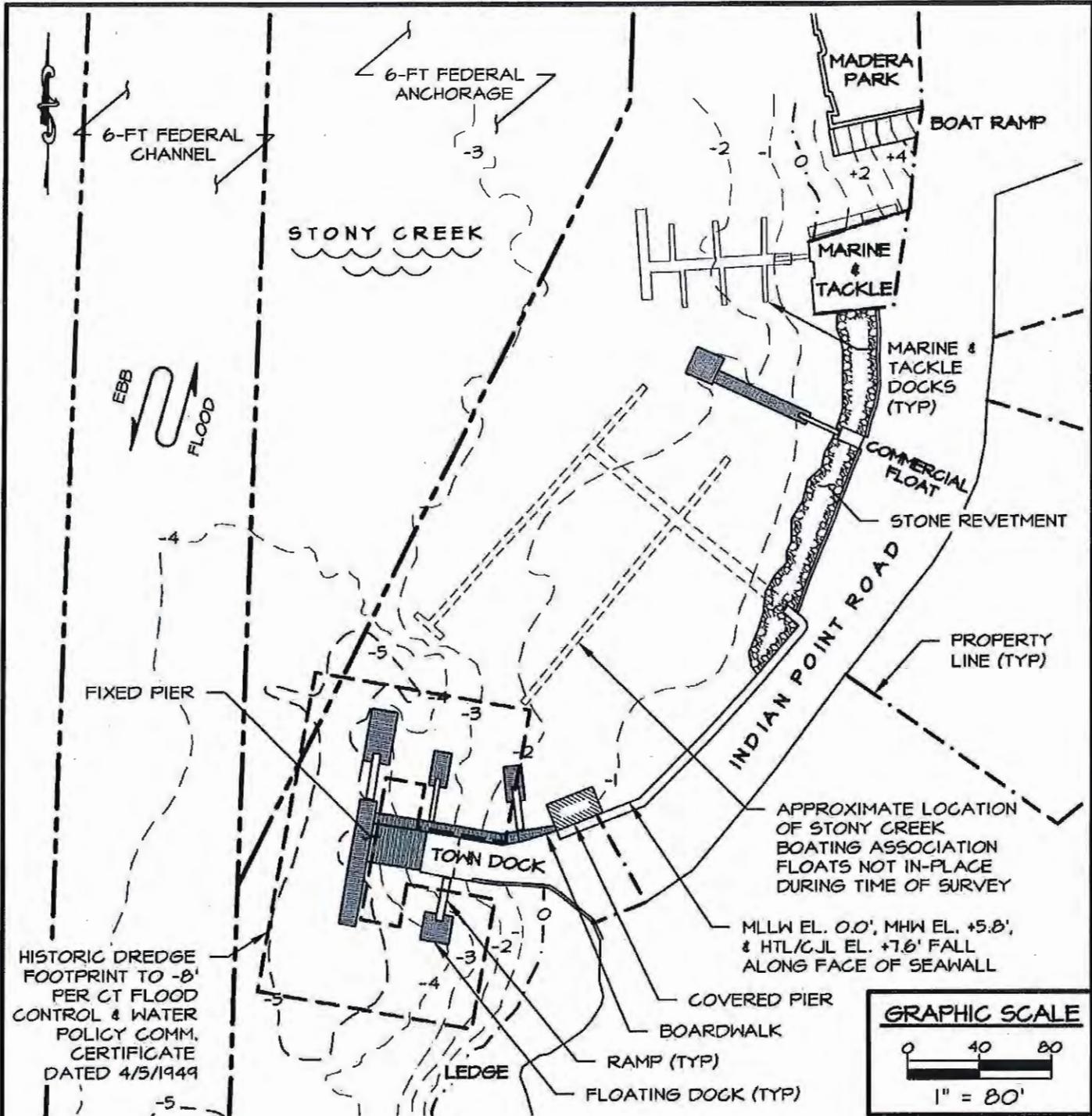
TOWN OF BRANFORD  
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BRANFORD, CT 06405

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**EXISTING PARTIAL PLAN**

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DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 80'
DATE:	1/5/2016
REV:	
PROJECT #:	201512



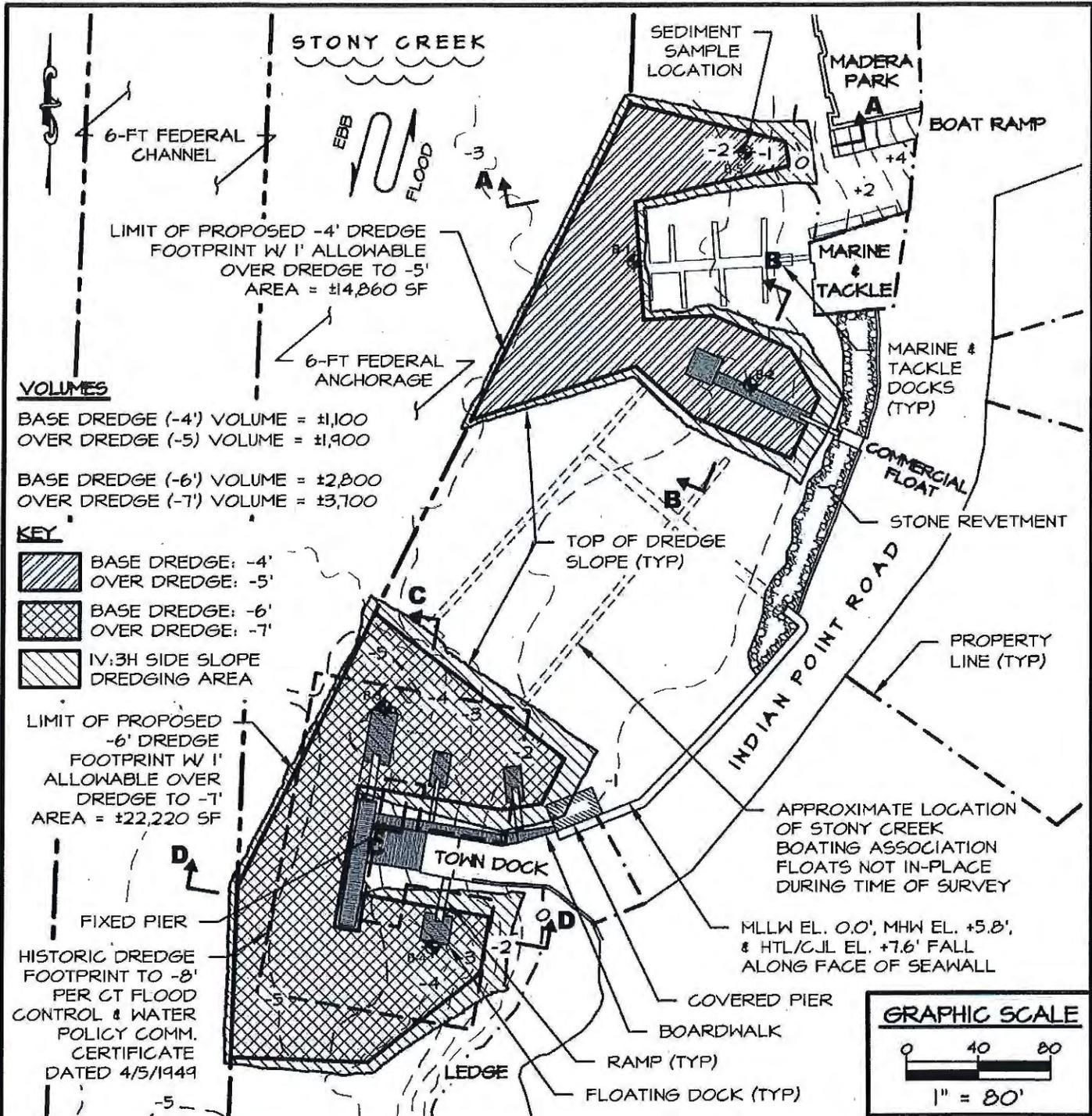
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PROJECT:	TOWN OF BRANFORD TOWN DOCK, COMMERCIAL FLOAT, & BOAT RAMP DREDGING STONY CREEK - L.I.S.
APPLICANT:	TOWN OF BRANFORD ENGINEERING DEPARTMENT 1019 MAIN STREET, 3RD FLOOR BRANFORD, CT 06405

**RACE**  
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DRAWING NO. 4 of 8



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**PROPOSED DREDGE PLAN**

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DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 80'
DATE:	1/5/2016
REV:	
PROJECT #:	201512



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PROJECT:

TOWN OF BRANFORD  
 TOWN DOCK, COMMERCIAL FLOAT,  
 & BOAT RAMP DREDGING  
 STONY CREEK - L.I.S.

APPLICANT:

TOWN OF BRANFORD  
 ENGINEERING DEPARTMENT  
 1019 MAIN STREET, 3RD FLOOR  
 BRANFORD, CT 06405

**RACE**  
 ROBERGE ASSOCIATES  
 Coastal Engineers, LLC

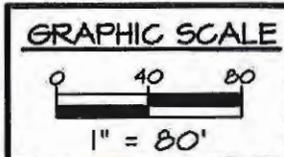
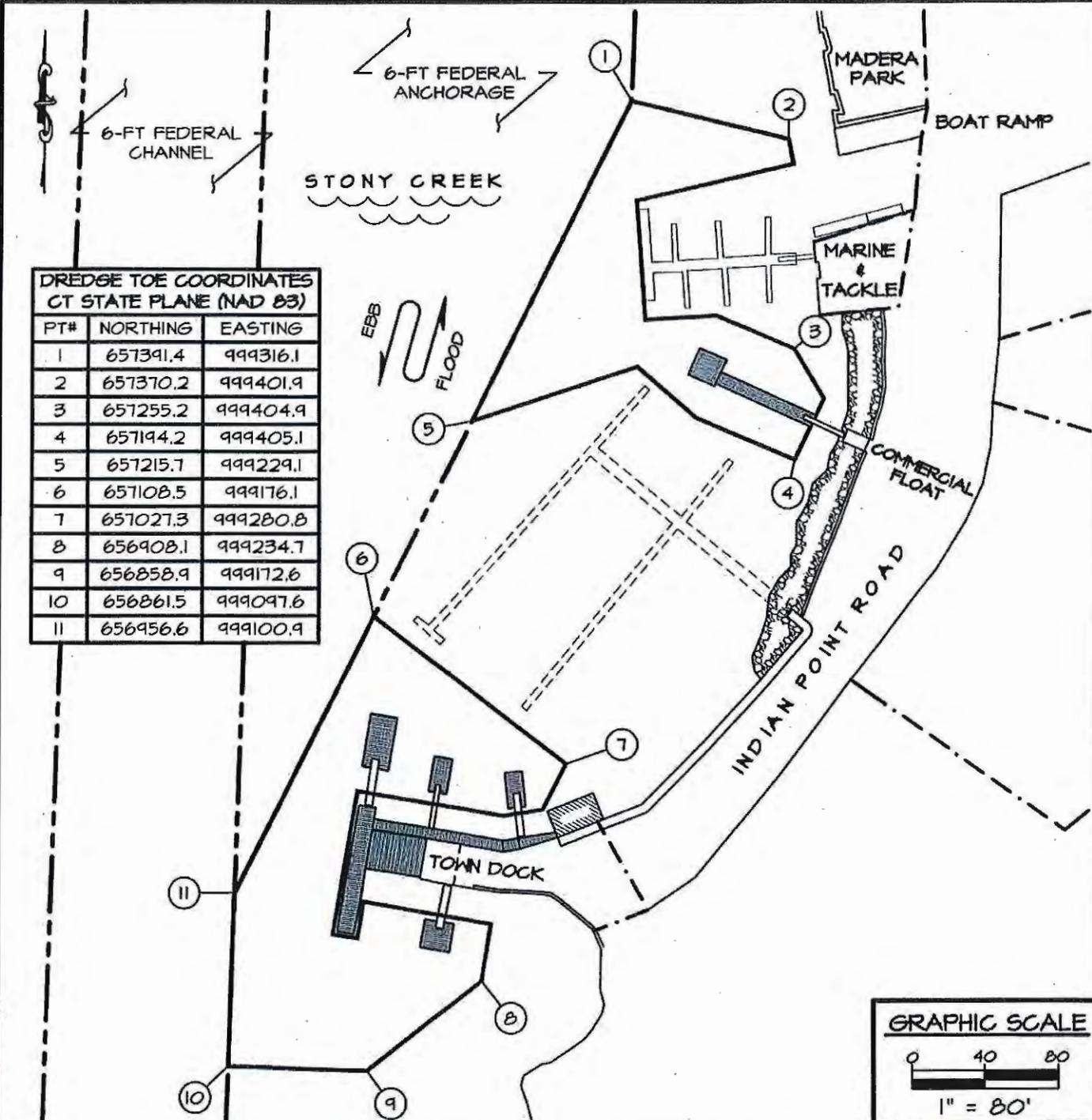
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DRAWING NO. 5 of 8

**DREDGE TOE COORDINATES  
CT STATE PLANE (NAD 83)**

PT#	NORTHING	EASTING
1	657391.4	999316.1
2	657370.2	999401.9
3	657255.2	999404.9
4	657194.2	999405.1
5	657215.7	999229.1
6	657108.5	999176.1
7	657027.3	999280.8
8	656908.1	999234.7
9	656858.9	999172.6
10	656861.5	999097.6
11	656956.6	999100.9



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**DREDGE TOE COORDINATE PLAN**

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DRAWN BY:	SCS
CHECKED BY:	DJS
DATUM:	MLLW
SCALE:	1" = 80'
DATE:	1/3/2016
REV:	
PROJECT #:	201512



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PROJECT:

TOWN OF BRANFORD  
TOWN DOCK, COMMERCIAL FLOAT,  
& BOAT RAMP DREDGING  
STONY CREEK - L.I.S.

APPLICANT:

TOWN OF BRANFORD  
ENGINEERING DEPARTMENT  
1019 MAIN STREET, 3RD FLOOR  
BRANFORD, CT 06405

**RACE**

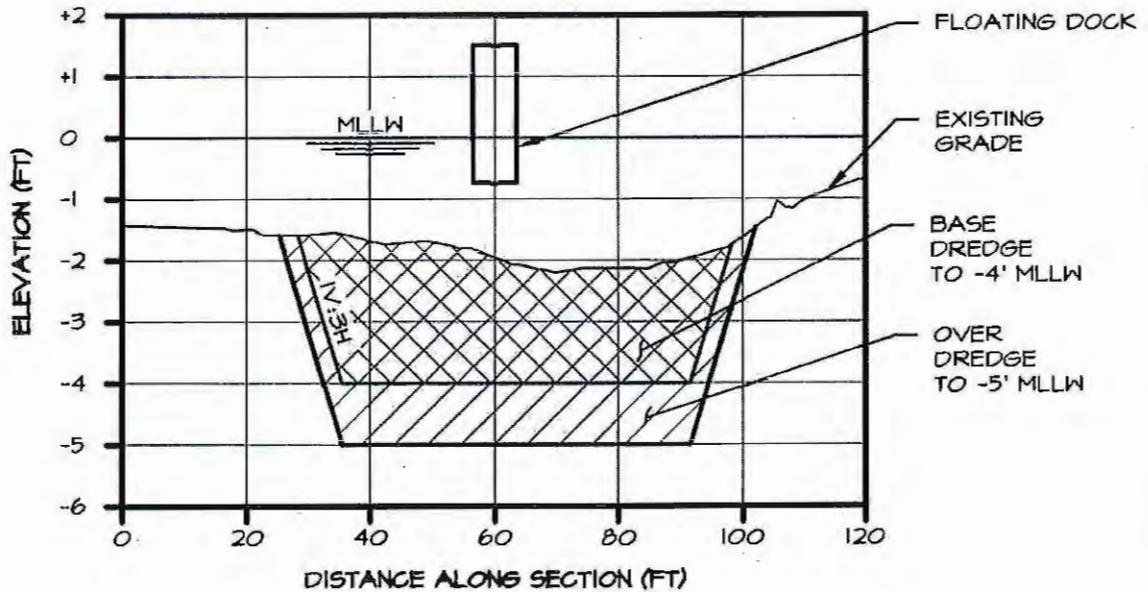
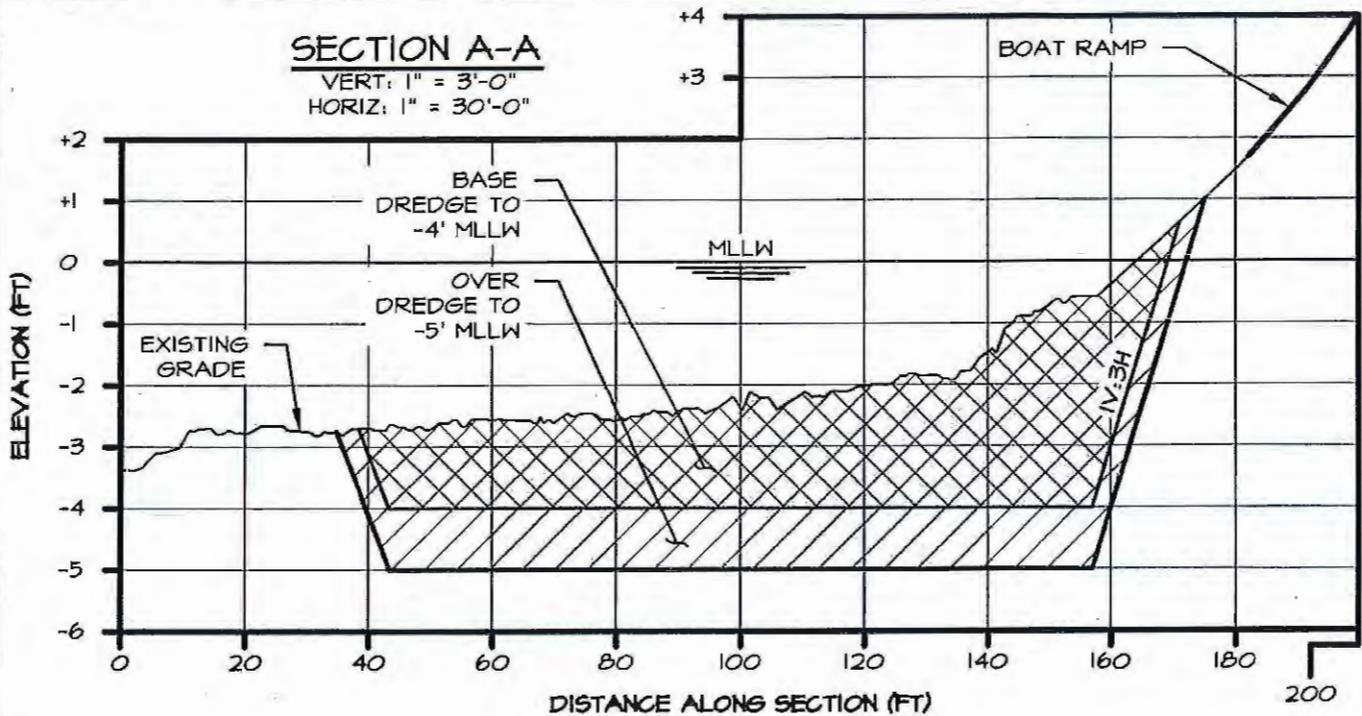
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**DRAWING NO. 6 of 8**

### SECTION A-A

VERT: 1" = 3'-0"  
HORIZ: 1" = 30'-0"



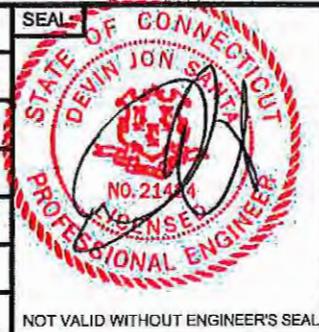
### SECTION B-B

VERT: 1" = 3'-0"  
HORIZ: 1" = 30'-0"

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DRAWN BY:	MTM
CHECKED BY:	SCS
DATUM:	MLLW
SCALE:	AS NOTED
DATE:	1/5/2016
REV:	
PROJECT #:	201512

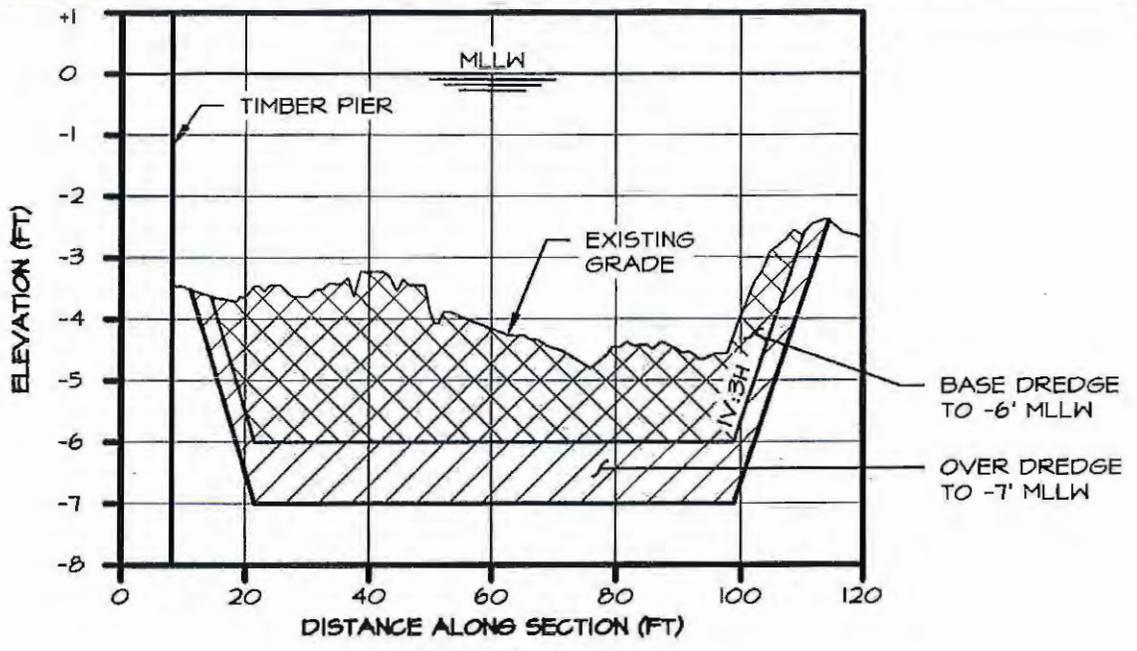


PROJECT:	TOWN OF BRANFORD TOWN DOCK, COMMERCIAL FLOAT, & BOAT RAMP DREDGING STONY CREEK - L.I.S.
APPLICANT:	TOWN OF BRANFORD ENGINEERING DEPARTMENT 1019 MAIN STREET, 3RD FLOOR BRANFORD, CT 06405

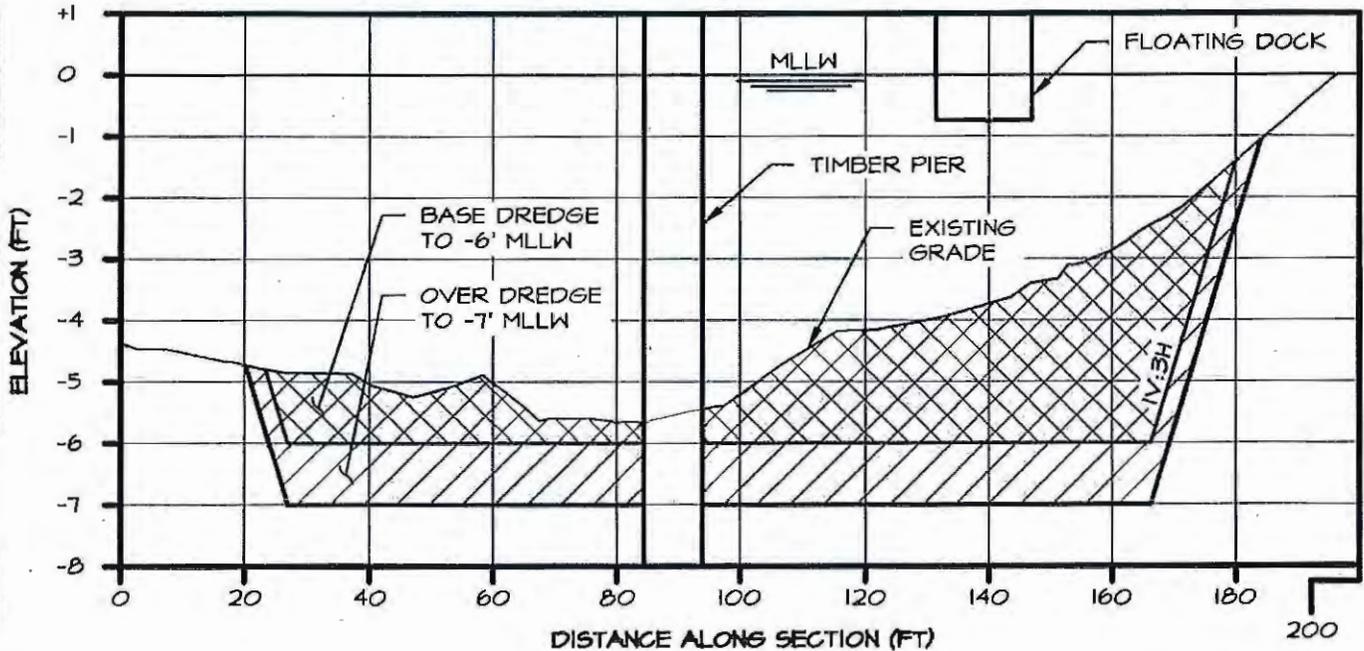
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**DRAWING NO. 7 of 8**



**SECTION C-C**  
 VERT: 1" = 3'-0" HORIZ: 1" = 30'-0"



**SECTION D-D**  
 VERT: 1" = 3'-0" HORIZ: 1" = 30'-0"

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DRAWN BY:	MTM
CHECKED BY:	SCS
DATUM:	MLLW
SCALE:	AS NOTED
DATE:	1/5/2016
REV:	
PROJECT #:	201512

SEAL:

NOT VALID WITHOUT ENGINEER'S SEAL

PROJECT:

TOWN OF BRANFORD  
 TOWN DOCK, COMMERCIAL FLOAT,  
 & BOAT RAMP DREDGING  
 STONY CREEK - L.I.S.

APPLICANT:

TOWN OF BRANFORD  
 ENGINEERING DEPARTMENT  
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