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**State of Rhode Island**  
**Coastal Resources Management Council**  
**Oliver H. Stedman Government Center**  
**4808 Tower Hill Road, Suite 3**  
**Wakefield, RI 02879**  
**(401)783-3370**

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**State of Rhode Island**  
**Department of Environmental Management**  
**Office of Technical and Customer Asst.**  
**235 Promenade Street**  
**Providence, RI 02908-5767**  
**(401)222-6822**

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**JOINT PUBLIC NOTICE**

CRMC File No.: 2022-11-010

Date: January 18, 2023

RIDEM Water Quality Certification Number: WQC 22-245 / DP 22-195

These offices have under consideration the application of:

**Watch Hill Yacht Club**  
**1 Fort Road**  
**Westerly, RI 02891**

for State of Rhode Island Assent (in accordance with the Coastal Resources Management Program), and State of Rhode Island Water Quality Certification (in accordance with Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the RIGL, as amended).

The project will include: A dredge permit to dredge the areas near the existing bulkhead. The project is estimated to remove approximately 765 cubic yards of sediment. The dredging activity will occur on the west side of the club building in an area of approximately 12,200 square feet and on the east side for approximately 4,200 square feet. The material has been tested and is acceptable for reuse on the nearby Watch Hill Beach.

Project Location: Within the Watch Hill Yacht Club MPL, near the exiting bulkhead

Street & Number: 1 Fort Road/151 Bay Street

City/Town: Westerly

Plat Number: 185 Lot Number: 31-1

Plans of the proposed work may be seen at the CRMC office in Wakefield.

In accordance with the Administrative Procedures Act (Chapter 42-35 of the Rhode Island General Laws) you may request a hearing on this matter. You are advised that if you have good reason to enter protests against the proposed work it is your privilege to do so. It is expected that objectors will review the application and plans thoroughly, visit site of proposed work if necessary, to familiarize themselves with the conditions and cite what law or laws, if any, would in their opinion be violated by the work proposed.

RICRMC/RIDEM Joint Public Notice  
CRMC File No. 2022-11-010  
January 18, 2023  
Page Two

This also serves as notice that the Rhode Island Department of Environmental Management, Office of Water Resources, Water Quality Certification Program has under consideration and review the same proposed activity as described above for compliance with the State's Water Quality Regulations (AUTHORITY: in accordance with Clean Water Act, as amended (33 U.S.C. 1251 et.seq.; Chapter 42-35 pursuant to Chapters 46-12 and 42-17.1 of the Rhode Island General Laws of 1956, as amended).

If you desire to protest, you must attend the scheduled hearing and give sworn testimony. A notice of the time and place of such hearing will be furnished you as soon as possible after receipt of your request for hearing. If you desire to request a hearing, to receive consideration, it should be in writing and be received at this office on or before **February 18, 2023**. Please provide comments via email at [cstaff1@crmc.ri.gov](mailto:cstaff1@crmc.ri.gov) or via USPS to Coastal Resources Management Council, O. S. Government Center, 4808 Tower Hill Road, Rm 116; Wakefield, RI 02879.

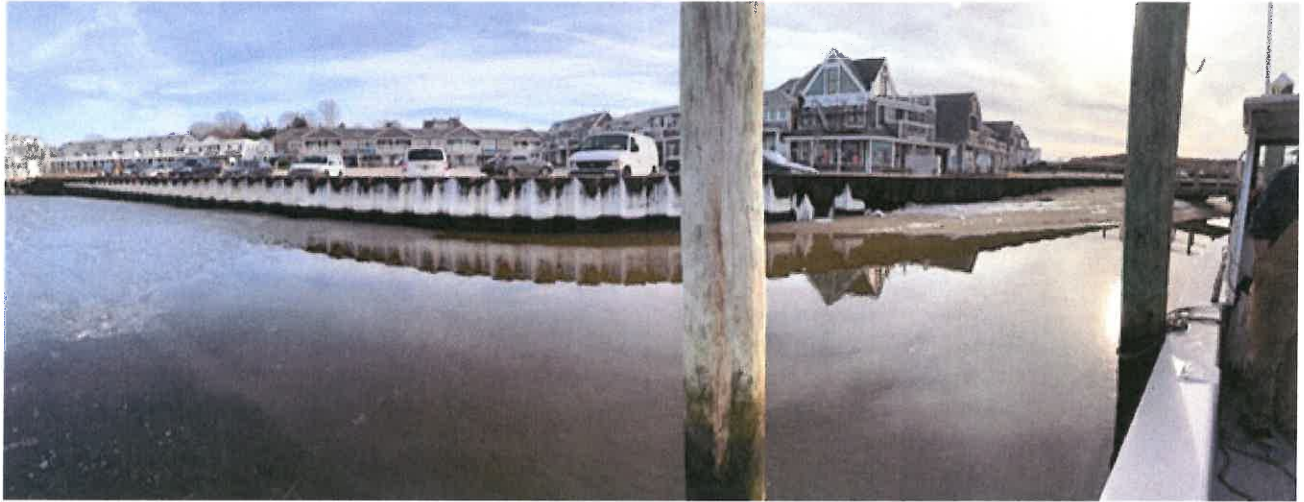
It is expected that objectors will review the application and associates plans thoroughly. Comments that pertain to this Joint Notice must be submitted in writing and must be addressed to Rhode Island Coastal Resources Management Council and Rhode Island Department of Environmental Management at the above referenced addresses.

/lat

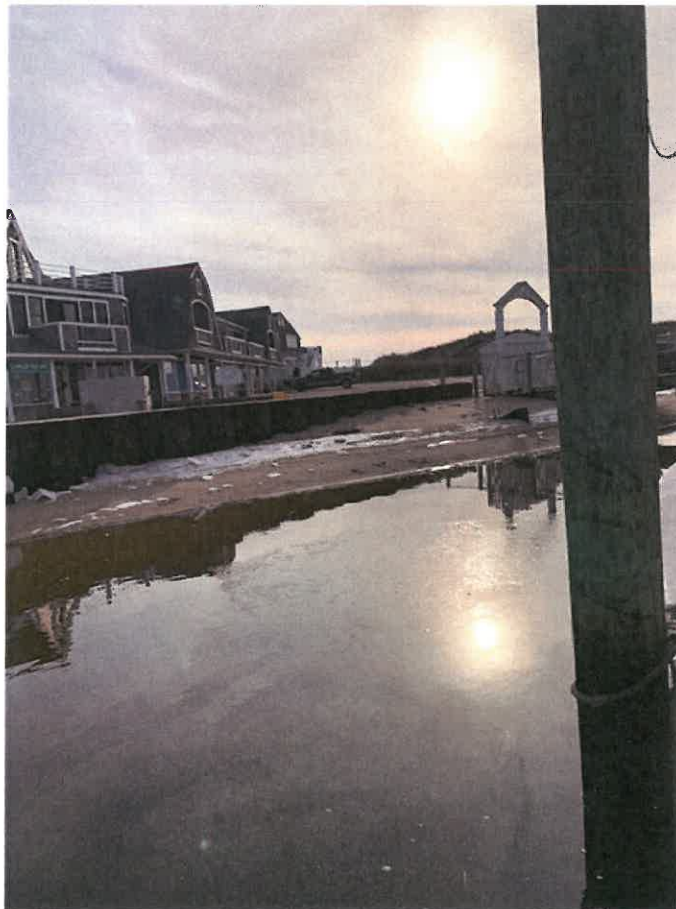
**EXHIBIT 1**

**SITE PHOTOGRAPHS**

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MANAGEMENT COUNCIL



*Photo 1: Panoramic Photo of East Side of Watch Hill Yacht Club.*



*Photo 2: East Side of Watch Hill Yacht Club at Mean Low Water.*

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COASTAL RESOURCES  
MANAGEMENT BOARD



*Photo 3: West Side of Watch Hill Yacht Club in Area of Proposed Dredging.*



*Photo 4: West Side of Watch Hill Yacht Club at Mean Low Water.*

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NOV 01 2022  
COASTAL RESOURCE COUNCIL



*Photo 5: East Side of Watch Hill Yacht Club in Area of Proposed Dredging at MLW.*



*Photo 6: East Side of Watch Hill Yacht Club at Mean Low Water.*

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NOV 01 2022  
COASTAL RESOURCES  
PERMITTING DIVISION



*Photo 7: 2022 Photograph - East Side of Watch Hill Yacht Club in Area of Proposed Dredging at MLW.*



*Photo 8: 1998 Photograph - East Side of Watch Hill Yacht Club at Mean Low Water.*

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NOV 01 2022  
COASTAL SERVICES  
MANAGEMENT COUNCIL

**EXHIBIT 2**

**2022 SAMPLING PLAN  
AND  
SIEVE ANALYSES**

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MANAGEMENT COUNCIL





Date: February 10, 2022 Applicant(s): Watch Hill Yacht Club  
 Project Name: Maintenance Dredge at WH Yacht Club Address: 1 Fort Road, Westerly RI  
 Estimated Volume of Dredge (cy): 765 New (cy): \_\_\_\_\_ Maintenance (cy): 765  
 Area of Dredge (sf): 16,400 +/- Depth of Dredge: Approx. 3 ft.  
 Proposed Disposal Location (include Plat/Lot if on land): 151 Bay Street, Watch Hill Fire District Beach, Plat 185, Lot 31-1  
 WQ Class of Dredge Area (if known): \_\_\_\_\_ GW Class of Disposal Area (if, known): \_\_\_\_\_

### Sediment Sampling Plan for Dredging Projects

Submit Site plan 8 1/2" x 11" (Google Earth printout and Navigation Chart or engineered plans) Mark all within 200' of proposed dredge limits:  
 Outfalls and Gas docks or any other potential areas of contamination  
 *N/A* eelgrass, salt marsh, flounder or shellfish habitat  
 Proposed dredge footprint and average depth of dredge

Proposed Depth of Samples 36"  
 Proposed Coring Method Hand dug  
 # of Sampling Locations 2

**Submit Proposed Analysis and detection limits depending on disposal location:** The detection limits for an analyte should be no greater than one-third (one-half log unit) of the appropriate value for the analyte and matrix of concern. Whenever possible, an MDL of three to five times below the criteria is expected. If the criteria are Non-Detect then the procedures and MRL's set forth in the OTM (USEPA and USACE 1991) below are appropriate to follow. In-water disposal must meet all Army Corps Requirements.

Place a  CHECK in each box you are proposing to sample and CIRCLE intended laboratory method.

Sample	Beach Criteria	CAD Cap Criteria	GA Leachability Criteria TCLP/SPLP	Residential Disposal Criteria <sup>1</sup>	Commercial/Industrial Exposure <sup>2</sup>	TCLP Criteria for Haz. Waste <sup>3</sup>	Acceptable EPA Method(s)	MRL**
Grain Size	<input checked="" type="checkbox"/> <10% silt/clay	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
% Moisture	<input type="checkbox"/> <25%	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
TPH	<input type="checkbox"/> ND	<input type="checkbox"/>	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 2500 mg/kg		SW 8015C	100 mg/Kg
SVOC		<input type="checkbox"/>	<input type="checkbox"/> Table 2 <sup>3</sup>	<input type="checkbox"/> Table 1 <sup>1</sup>	<input type="checkbox"/> Table 1 <sup>2</sup>		8270 SIM	10 ug/Kg
PCB	<input type="checkbox"/> *ND	<input type="checkbox"/> 0.4 mg/kg	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 10 mg/kg		8082	* .02 mg/Kg
PAH		<input type="checkbox"/> 4.0 mg/kg					8270— Six (6) Tier 1 compounds	
Arsenic (As)	<input type="checkbox"/> 1.7 mg/kg	<input type="checkbox"/> 10 mg/kg		<input type="checkbox"/> 7.0 mg/kg	<input type="checkbox"/> 7.0 mg/kg	<input type="checkbox"/> 5.0 mg/L	6010,6020,7061,7062,7000, 7010	0.4 mg/Kg
Cadmium (Cd)	<input type="checkbox"/> 1 mg/kg	<input type="checkbox"/> 5 mg/kg	<input type="checkbox"/> 0.03 mg/L	<input type="checkbox"/> 39 mg/kg	<input type="checkbox"/> 1000 mg/kg	<input type="checkbox"/> 1.0 mg/L	6010,6020,7000,7010	0.07 mg/Kg
Chromium (Cr)	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 100 mg/kg	<input type="checkbox"/> 1.1 mg/L	<input type="checkbox"/> 390 mg/kg	<input type="checkbox"/> 10000 mg/kg	<input type="checkbox"/> 5.0 mg/L	6010,6020,7000,7010	0.5 mg/Kg
Copper (Cu)	<input type="checkbox"/> 10 mg/kg	<input type="checkbox"/> 200 mg/kg		<input type="checkbox"/> 3100 mg/kg	<input type="checkbox"/> 10000 mg/kg		6010,6020,7000,7010	0.5 mg/Kg
Lead (Pb)	<input type="checkbox"/> 25 mg/kg	<input type="checkbox"/> 100 mg/kg	<input type="checkbox"/> 0.04 mg/L	<input type="checkbox"/> 150 mg/kg	<input type="checkbox"/> 500 mg/kg	<input type="checkbox"/> 5.0 mg/L	6010,6020,7000, 7010	0.5 mg/Kg
Mercury (Hg)	<input type="checkbox"/> 0.5 mg/kg	<input type="checkbox"/> 0.5 mg/kg	<input type="checkbox"/> 0.02 mg/L	<input type="checkbox"/> 23 mg/kg	<input type="checkbox"/> 610 mg/kg	<input type="checkbox"/> 0.2 mg/L	7470,7471,7472	0.07 mg/Kg
Nickel (Ni)	<input type="checkbox"/> 5 mg/kg	<input type="checkbox"/> 50 mg/kg	<input type="checkbox"/> 1 mg/L	<input type="checkbox"/> 1000 mg/kg			6010, 6020,7000, 7010	0.5 mg/Kg
Zinc (Zn)	<input type="checkbox"/> 25 mg/kg	<input type="checkbox"/> 200 mg/kg		<input type="checkbox"/> 6000 mg/kg			6010,6020,7000,7010	1.0 mg/Kg
TCLP or SPLP							1311 or 1312	
Barium (Ba)						<input type="checkbox"/> 100 mg/L	6010, 6020	
Selenium (Se)						<input type="checkbox"/> 1.0 mg/L	6010, 6020, 7741, 7742	
Silver (Ag)						<input type="checkbox"/> 5.0 mg/L	6010, 6020	

\* For each arochlor \*\*For Beach Criteria – any other MRL should be at least three to five times below the criteria  
<sup>1</sup> Residential Direct Exposure Criteria are defined in Table 1 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.  
<sup>2</sup> Commercial/Industrial Direct Exposure Criteria are defined in Table 1 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.  
<sup>3</sup> GA Leachability Criteria are defined in Table 2 in Section 8 of the Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases.

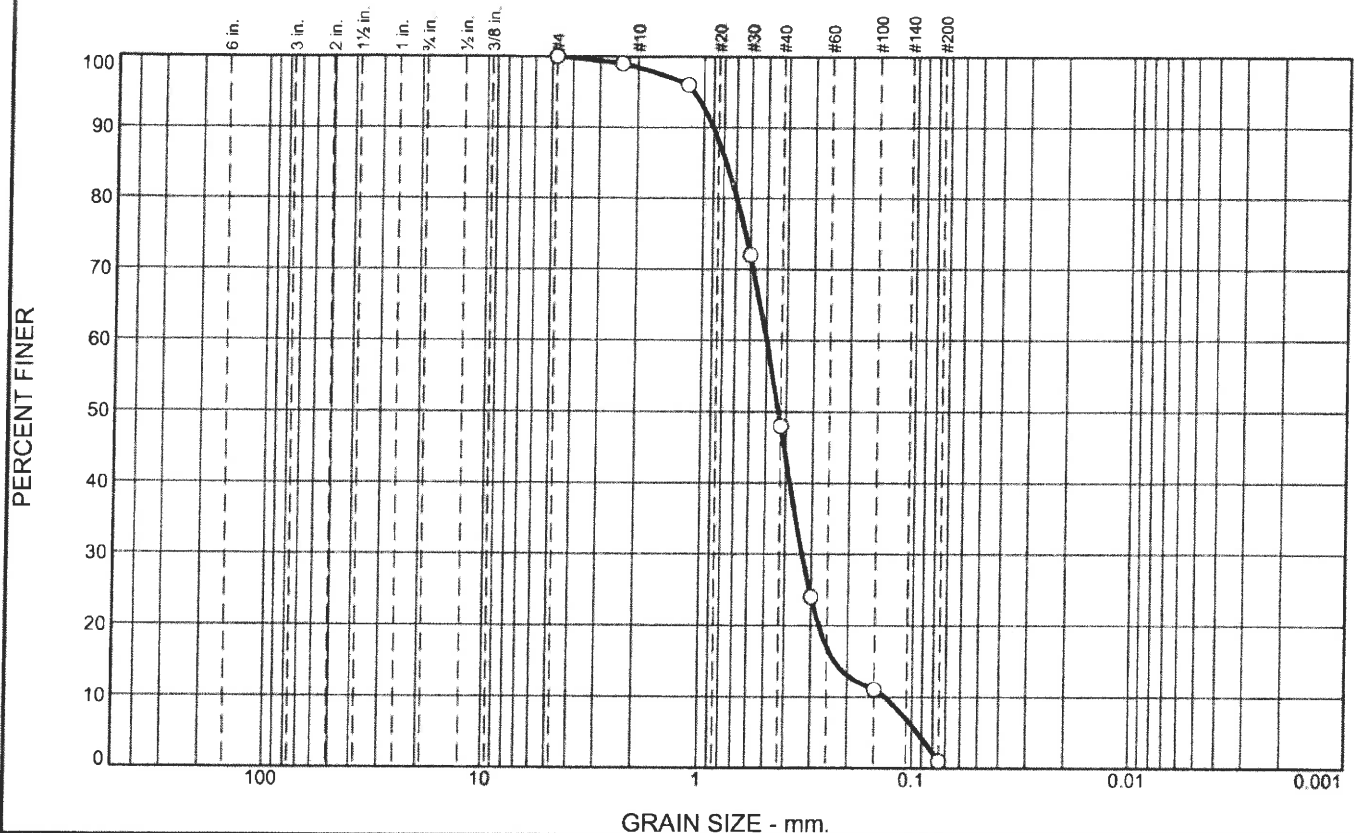
### Approvals

Dredge Coordinator (CRMC) : \_\_\_\_\_ Date: \_\_\_\_\_  
 WQC Program (DEM): \_\_\_\_\_ Date: \_\_\_\_\_  
 GW Program (DEM), if upland \_\_\_\_\_ Date: \_\_\_\_\_  
 Dredge Coordinator (DEM): \_\_\_\_\_ Date: \_\_\_\_\_





# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.5	50.5	47.0	1.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	96.0		
#30	72.0		
#40	48.0		
#50	24.0		
#100	11.0		
#200	1.0		

**Material Description**

SAMPLE S-1: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>90</sub>= 0.9023      D<sub>85</sub>= 0.7815      D<sub>60</sub>= 0.4998  
 D<sub>50</sub>= 0.4363      D<sub>30</sub>= 0.3322      D<sub>15</sub>= 0.2301  
 D<sub>10</sub>= 0.1343      C<sub>u</sub>= 3.72      C<sub>c</sub>= 1.64

**Classification**

USCS= SP      AASHTO= A-1-b

**Remarks**

SAND TAKEN AT 3' DEPTH (SAMPLE S-1).

\* (no specification provided)

Location: WESTERLY, RI      Depth: N/A      Date: 03/04/22  
 Sample Number: S-1

<b>Geisser Engineering Corporation</b>	Client: ON-SITE ENGINEERING	<div style="border: 2px solid blue; padding: 5px; color: red; font-weight: bold;">                     RECEIVED                      NOV 01 2022                 </div>
Riverside, Rhode Island	Project: WATCH HILL YACHT CLUB - WESTERLY, RI	
	Project No: GEC-5102	Figure

Tested By: RH      Checked By: SAB

COASTAL RESOURCE MANAGEMENT COUNCIL

**GRAIN SIZE DISTRIBUTION TEST DATA**

3/4/2022

**Client:** ON-SITE ENGINEERING

**Project:** WATCH HILL YACHT CLUB - WESTERLY, RI

**Project Number:** GEC-5102

**Location:** WESTERLY, RI

**Depth:** N/A

**Sample Number:** S-1

**Material Description:** SAMPLE S-1: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

**Date:** 03/04/22

**PL:** NP

**LL:** NV

**PI:** NP

**USCS Classification:** SP

**AASHTO Classification:** A-1-b

**Testing Remarks:** SAND TAKEN AT 3' DEPTH (SAMPLE S-1).

**Tested by:** RH

**Checked by:** SAB

**Sieve Test Data**

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	96.0
#30	72.0
#40	48.0
#50	24.0
#100	11.0
#200	1.0

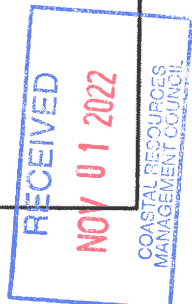
**Fractional Components**

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.5	50.5	47.0	99.0			1.0

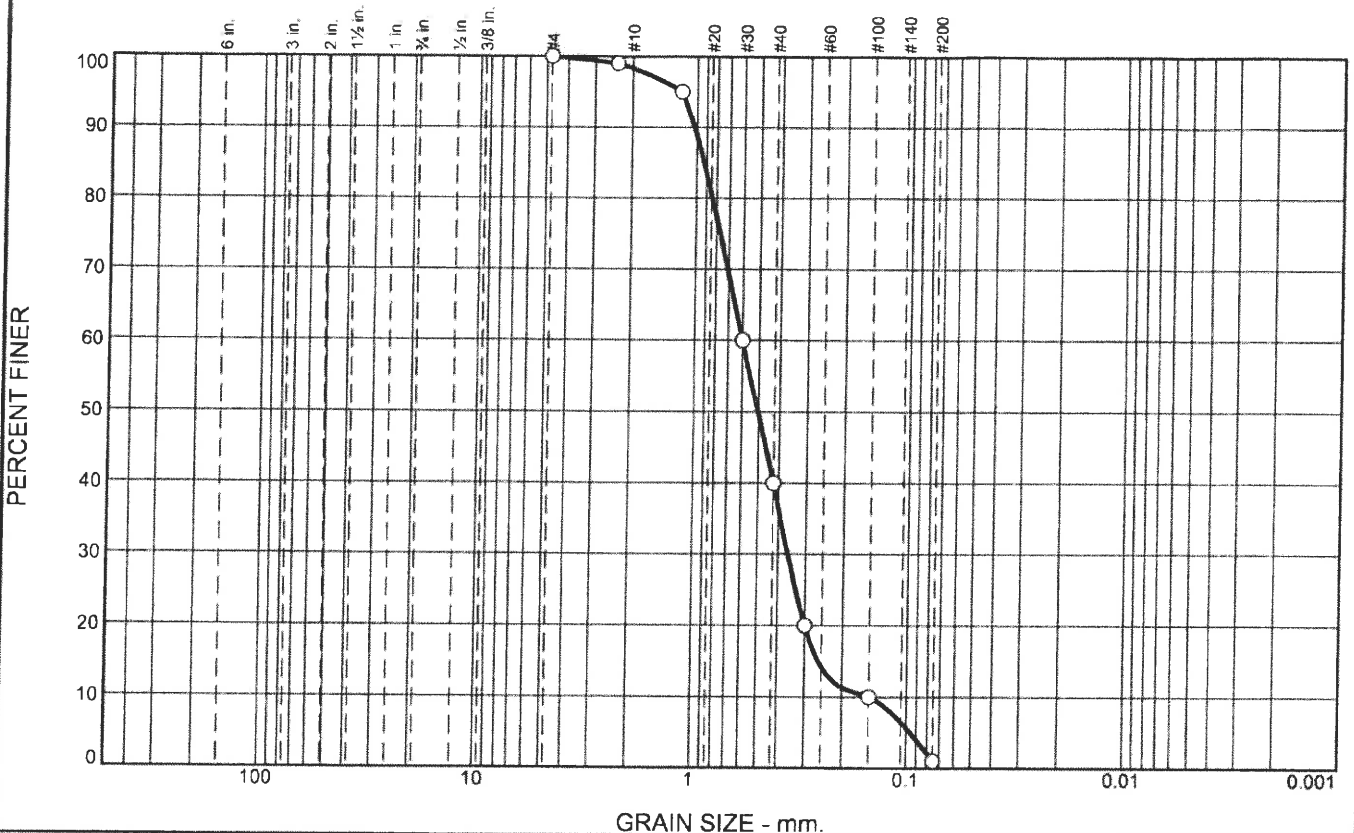
D <sub>5</sub>	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>
0.0943	0.1343	0.2301	0.2745	0.3322	0.3826	0.4363	0.4998	0.6968	0.7815	0.9023	1.1112

Fineness Modulus	C <sub>u</sub>	C <sub>c</sub>
1.98	3.72	1.64

Geisser Engineering Corporation



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.7	58.3	39.0	1.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	95.0		
#30	60.0		
#40	40.0		
#50	20.0		
#100	10.0		
#200	1.0		

**Material Description**

SAMPLE S-2: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>90</sub>= 1.0287      D<sub>85</sub>= 0.9248      D<sub>60</sub>= 0.6000  
 D<sub>50</sub>= 0.5041      D<sub>30</sub>= 0.3617      D<sub>15</sub>= 0.2587  
 D<sub>10</sub>= 0.1500      C<sub>u</sub>= 4.00      C<sub>c</sub>= 1.45

**Classification**

USCS= SP      AASHTO= A-1-b

**Remarks**

SAND TAKEN AT 3' DEPTH (SAMPLE S-2).

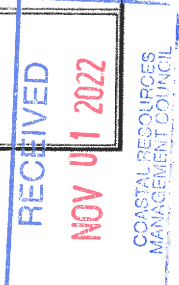
\* (no specification provided)

Location: WESTERLY, RI      Depth: N/A  
 Sample Number: S-2

Date: 03/04/22

<b>Geisser Engineering Corporation</b>	Client: ON-SITE ENGINEERING	
Riverside, Rhode Island	Project: WATCH HILL YACHT CLUB - WESTERLY, RI	
	Project No: GEC-5102	Figure

Tested By: RH      Checked By: SAB



**GRAIN SIZE DISTRIBUTION TEST DATA**

3/4/2022

**Client:** ON-SITE ENGINEERING

**Project:** WATCH HILL YACHT CLUB - WESTERLY, RI

**Project Number:** GEC-5102

**Location:** WESTERLY, RI

**Depth:** N/A

**Sample Number:** S-2

**Material Description:** SAMPLE S-2: SAND TAKEN AT 3' DEPTH. SAMPLED BY CLIENT.

**Date:** 03/04/22

**PL:** NP

**LL:** NV

**PI:** NP

**USCS Classification:** SP

**AASHTO Classification:** A-1-b

**Testing Remarks:** SAND TAKEN AT 3' DEPTH (SAMPLE S-2).

**Tested by:** RH

**Checked by:** SAB

**Sieve Test Data**

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	95.0
#30	60.0
#40	40.0
#50	20.0
#100	10.0
#200	1.0

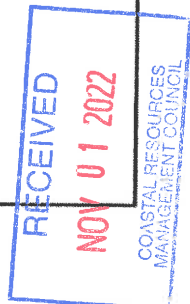
**Fractional Components**

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.7	58.3	39.0	99.0			1.0

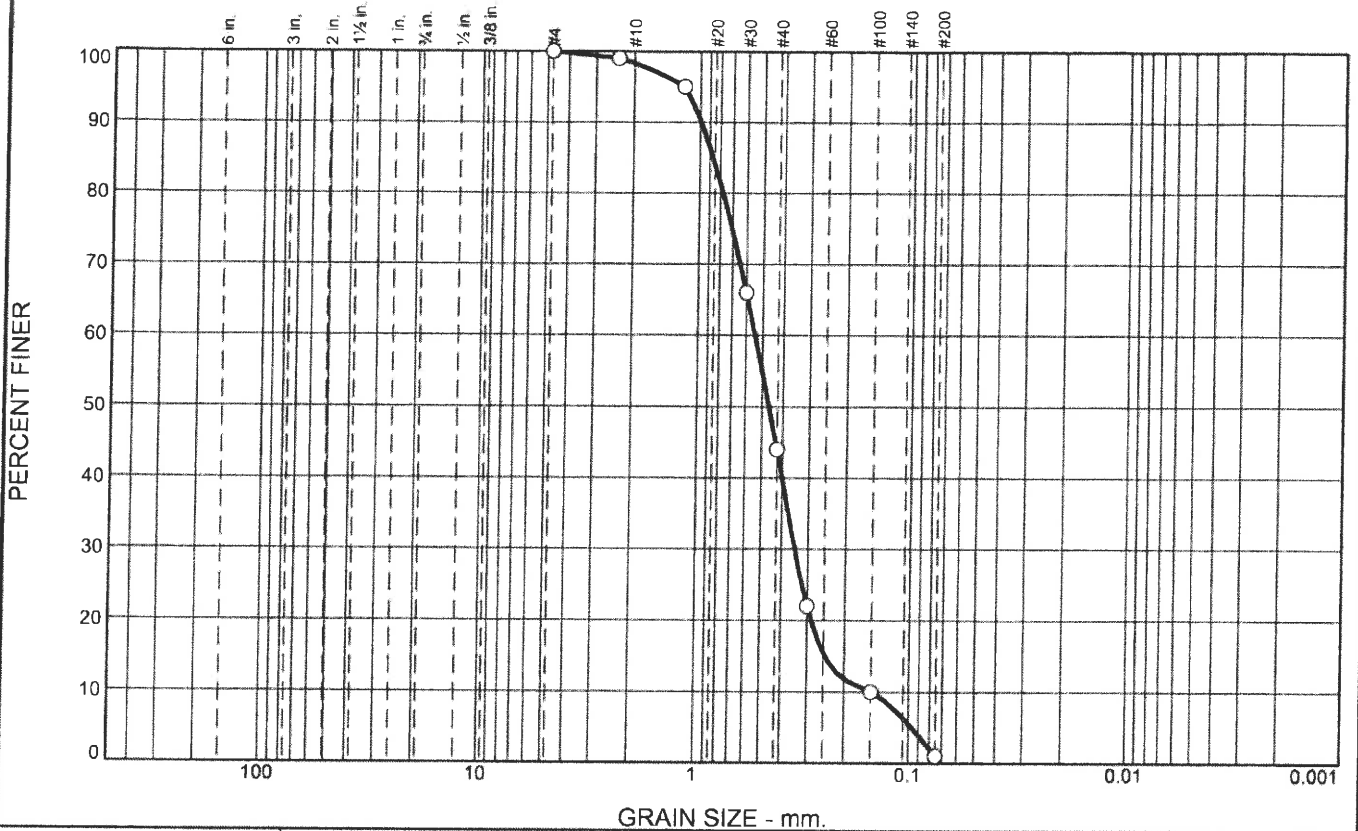
D <sub>5</sub>	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>
0.0960	0.1500	0.2587	0.3000	0.3617	0.4250	0.5041	0.6000	0.8419	0.9248	1.0287	1.1800

Fineness Modulus	C <sub>u</sub>	C <sub>c</sub>
2.16	4.00	1.45

Geisser Engineering Corporation



# Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	1.7	54.3	43.0	1.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#4	100.0		
#8	99.0		
#16	95.0		
#30	66.0		
#40	44.0		
#50	22.0		
#100	10.0		
#200	1.0		

\* (no specification provided)

**Material Description**

SAMPLE S-3: SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH). SAMPLED BY CLIENT.

**Atterberg Limits**

PL= NP      LL= NV      PI= NP

**Coefficients**

D<sub>90</sub>= 0.9901      D<sub>85</sub>= 0.8695      D<sub>60</sub>= 0.5431  
D<sub>50</sub>= 0.4645      D<sub>30</sub>= 0.3457      D<sub>15</sub>= 0.2454  
D<sub>10</sub>= 0.1500      C<sub>u</sub>= 3.62      C<sub>c</sub>= 1.47

**Classification**

USCS= SP      AASHTO= A-1-b

**Remarks**

SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH) SAMPLE S-3.

Location: WESTERLY, RI      Depth: N/A  
Sample Number: S-3

Date: 03/04/22

<b>Geisser Engineering Corporation</b>	Client: ON-SITE ENGINEERING
Riverside, Rhode Island	Project: WATCH HILL YACHT CLUB - WESTERLY, RI
	Project No: GEC-5102
	Figure

Tested By: RH

Checked By: SAB



**GRAIN SIZE DISTRIBUTION TEST DATA**

3/4/2022

**Client:** ON-SITE ENGINEERING

**Project:** WATCH HILL YACHT CLUB - WESTERLY, RI

**Project Number:** GEC-5102

**Location:** WESTERLY, RI

**Depth:** N/A

**Sample Number:** S-3

**Material Description:** SAMPLE S-3: SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH). SAMPLED BY CLIENT.

**Date:** 03/04/22

**PL:** NP

**LL:** NV

**PI:** NP

**USCS Classification:** SP

**AASHTO Classification:** A-1-b

**Testing Remarks:** SAND TAKEN AT DREDGE DISPOSAL SITE (2' DEPTH) SAMPLE S-3.

**Tested by:** RH

**Checked by:** SAB

**Sieve Test Data**

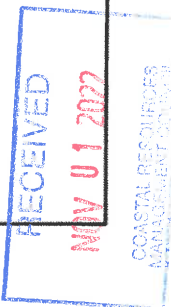
Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	
1.0	
.75	
.5	
.375	
#4	100.0
#8	99.0
#16	95.0
#30	66.0
#40	44.0
#50	22.0
#100	10.0
#200	1.0

**Fractional Components**

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	0.0	0.0	0.0	1.7	54.3	43.0	99.0			1.0

D <sub>5</sub>	D <sub>10</sub>	D <sub>15</sub>	D <sub>20</sub>	D <sub>30</sub>	D <sub>40</sub>	D <sub>50</sub>	D <sub>60</sub>	D <sub>80</sub>	D <sub>85</sub>	D <sub>90</sub>	D <sub>95</sub>
0.0968	0.1500	0.2454	0.2868	0.3457	0.4011	0.4645	0.5431	0.7786	0.8695	0.9901	1.1800

Fineness Modulus	C <sub>u</sub>	C <sub>c</sub>
2.08	3.62	1.47





**EXHIBIT 3**

**SIEVE ANALYSES FROM 1992 AND 2007**

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NOV 01 2022  
COASTAL RESOURCES  
MANAGEMENT COUNCIL

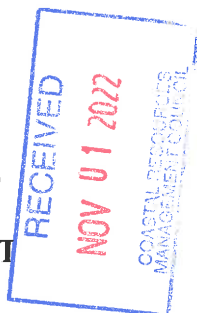
1. Sample Description:

<u>Sample No.</u>	<u>Description</u>	<u>Source</u>
P-2525	Fine Sand	Dredged Sample
P-2526	Fine Sand	Disposal Area (Beach Site)

2. Sieve Analysis ASTM D-422:

<u>Sieve Size</u> <u>Sample Number</u>	<u>Percent Passing</u>	
	<u>P-2525</u>	<u>P-2526</u>
#4	100.0%	100.0%
#10	99.4%	100.0%
#20	83.9%	99.8%
#40	15.2%	73.0%
#80	0.3%	2.9%
#200	0.2%	0.1%

SIEVE ANALYSES  
 FROM 1992  
 DREDGING PERMIT



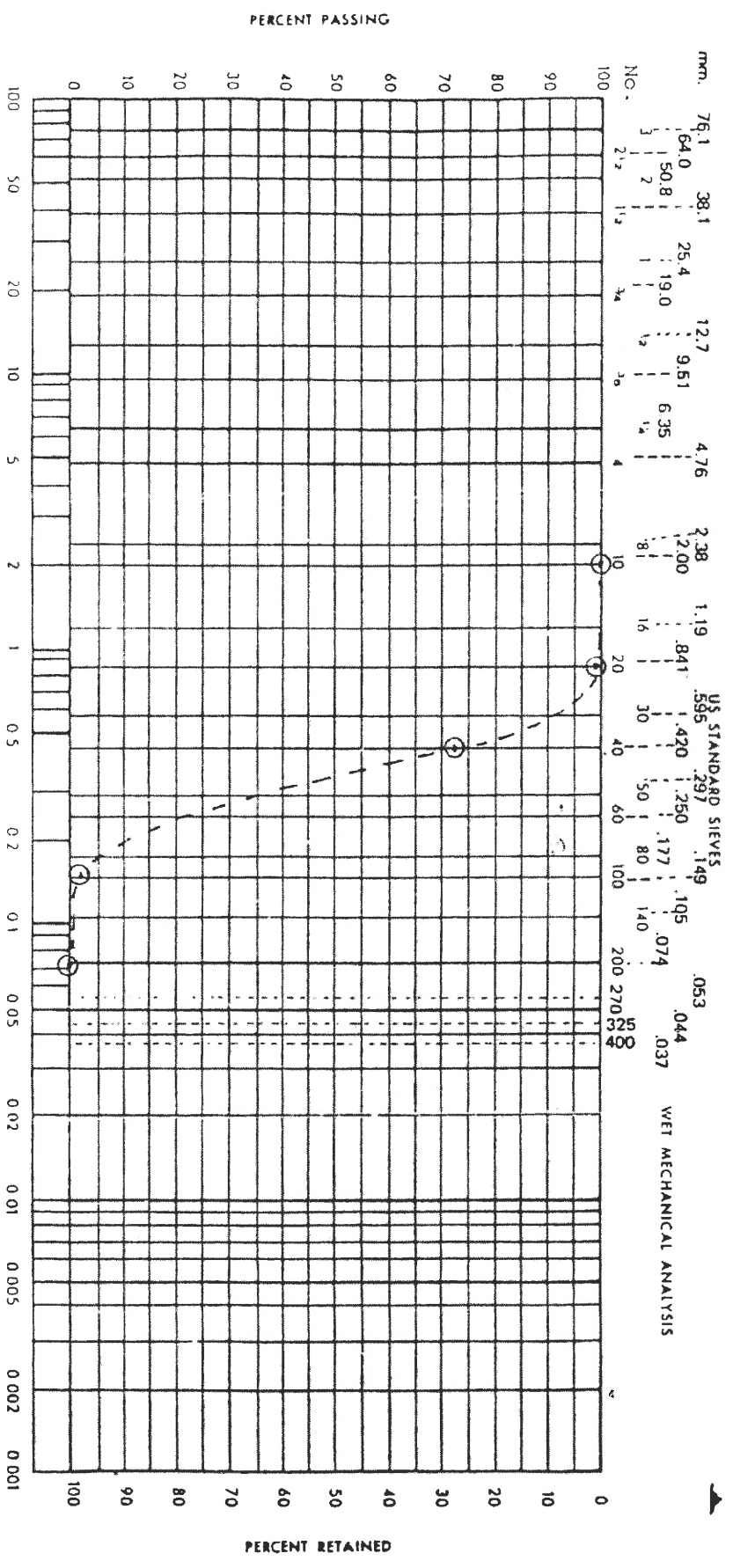
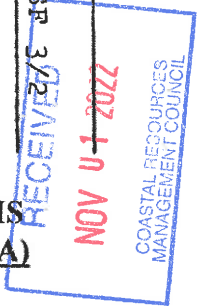


PROJECT: Watch Hill Fire District  
Dredging Project

SF-SF-03-  
Form # 04-01-79  
Project #:

File #: SF-02.001.0  
Grain Size Distribution  
RE: Aggregate Grading Chart

Proc. #: SF 3213038  
Report #: 031192



Cobbles	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Colloids
	Gravel		Sand					

P-2526- Disposal Area (Beach site)

RECTOR: J. Lawrence, Jr.

DATE: 3-11-92

APPROVAL:

Raymond H. Laurendeau  
Director of Testing

SIEVE ANALYSIS  
(DISPOSAL AREA)  
FROM 1992  
DREDGING PERMIT



PROJECT: Walden Hill Fire District Dredging Project

SF-SF-03-  
Form #: 04-01-79

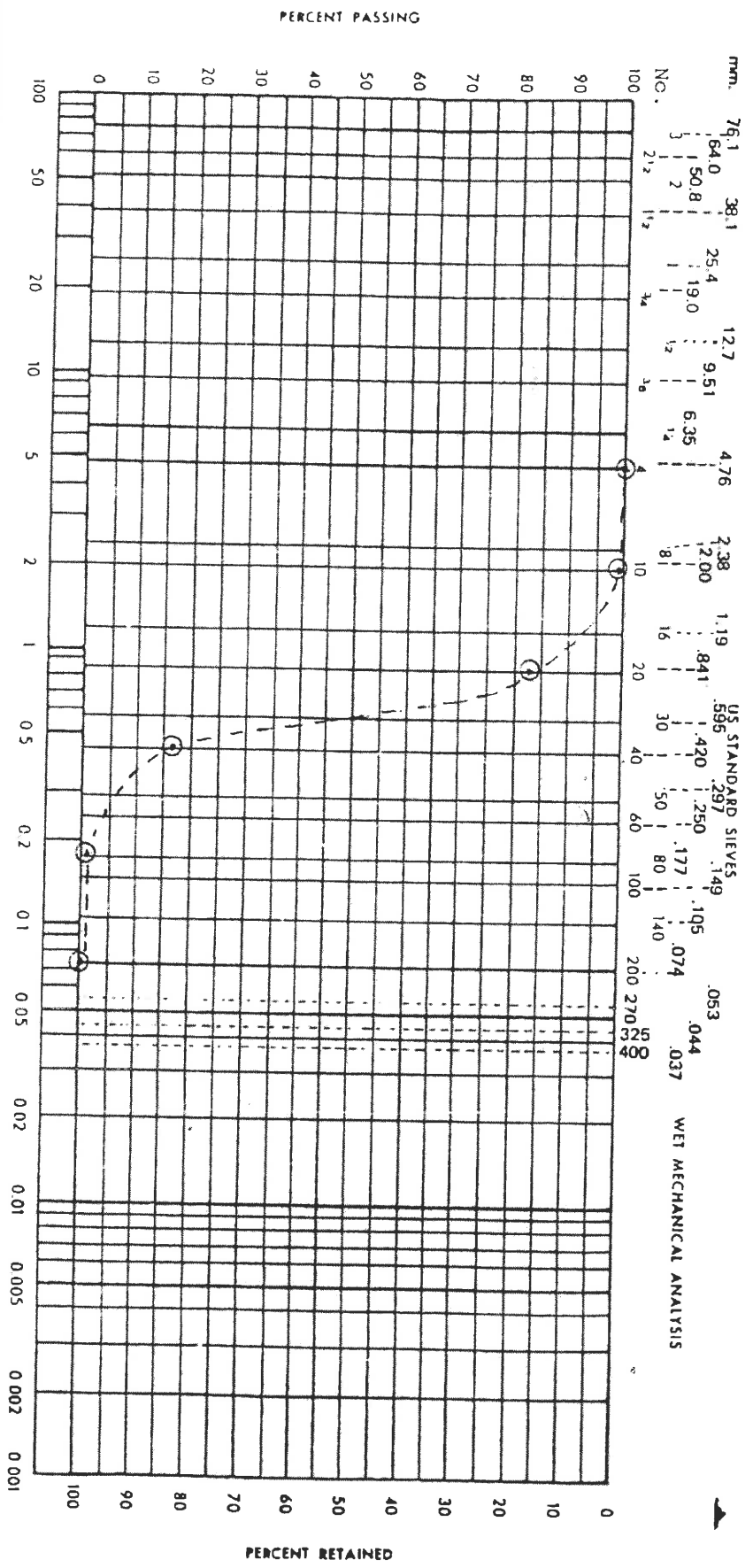
File #: SF-02.001.0

Proc. #: SF 3/2

Grain Size Distribution -  
RE: Aggregate Chart

Report #: 31192

2702 10 NOV  
DEANCO  
COASTAL DISTRICT



Cobbles	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay	Colloids
	Gravel		Sand					

P-2525-Dredged Sample

LABORATORY: Seamanville

DATE: 3-11-92

APPROVAL:

**Raymond H. Laurendeau**  
Director of Testing

SIEVE ANALYSIS  
(DREDGE MATERIAL)  
FROM 1992  
DREDGING PERMIT



# GZA GEOENVIRONMENTAL, INC.

## GRAIN SIZE ANALYSIS - MECHANICAL (ASTM D422)

Project: Watch Hill Yatch Club Job No.: 33329.00

Location of Project: \_\_\_\_\_

Sample No.: Composite Boring No.: N/A Depth: N/A

Sample Description: Light Brown, Fine to Medium SAND

Sample Source: Onsite

Tested By: LAS Date of Test: 10/9/2007

### Sample Weight

	Dry	Washed (#200)	
Wt of dry sample + container (g)	1573.8	1570.5	
Wt. of container (g) P-0	332.8	332.8	Wt of Fines
Wt of dry sample (g)	1241	1237.7	3.3

### Gradation Test Results

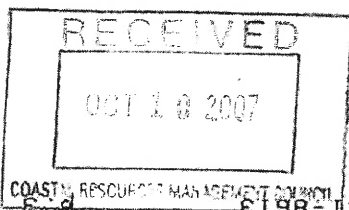
Sieve No	Sieve + Soil	Wt. of Sieve	Wt. retained	Cumulative retained	% retained	% passing
2"	824.7	824.7	0.0	0.00	0.00	100.00
1"	826.7	826.7	0.0	0.0	0.0	100.0
3/4"	577.2	577.2	0.0	0.0	0.0	100.0
1/2"	789.6	789.6	0.0	0.0	0.0	100.0
#4	512.0	510.1	1.9	1.9	0.2	99.8
#10	483.4	472.4	11.0	12.9	1.0	99.0
#20	672.3	422.7	249.6	262.5	21.1	78.9
#40	1196.1	366.9	809.2	1071.7	86.3	13.7
#100	514.9	349.0	165.9	1237.6	99.7	0.3
#200	825.5	825.0	0.5	1238.1	99.7	0.3
PAN	369.5	369.5	3.3	1241.4	100	0

Comments:

\_\_\_\_\_

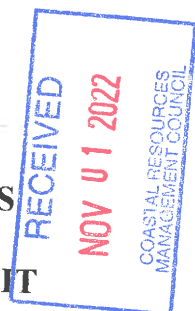
\_\_\_\_\_

\_\_\_\_\_



COASTAL RESOURCES MANAGEMENT COUNCIL (401) 751-8513

### SIEVE ANALYSIS FROM 2007 DREDGING PERMIT

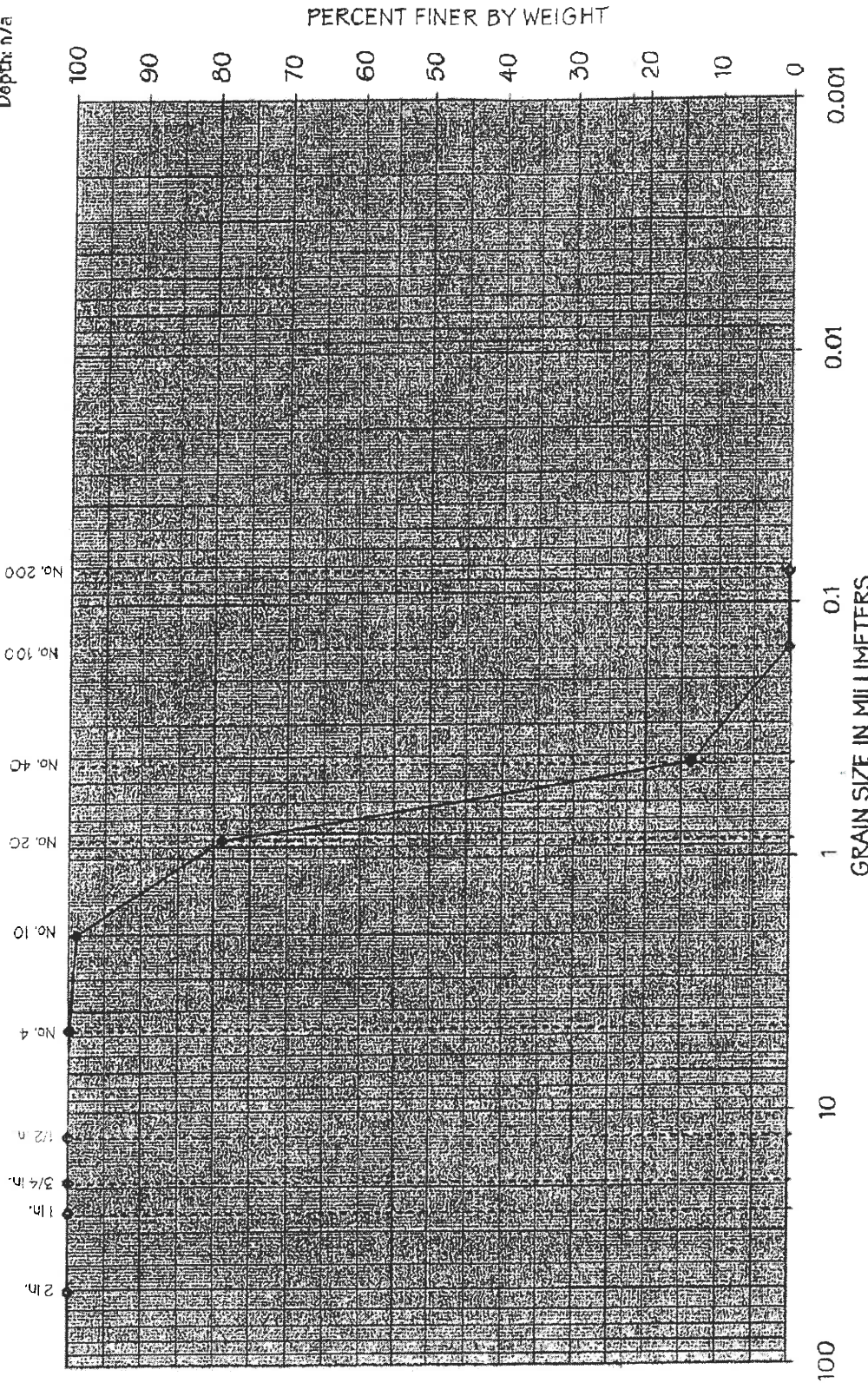


COASTAL RESOURCES MANAGEMENT COUNCIL

Project: Watch Hill Yatch Club  
 Job. No.: 33329.00

Date: 10/19/07  
 Tech./Reviewer: LAS  
 Borhng/Sample: Composite  
 Depth: n/a

GRADATION TEST  
 U.S. STANDARD SIEVE SIZE



GRAVEL		SAND		SILT	
COARSE	FINE	COARSE	MEDIUM	FINE	

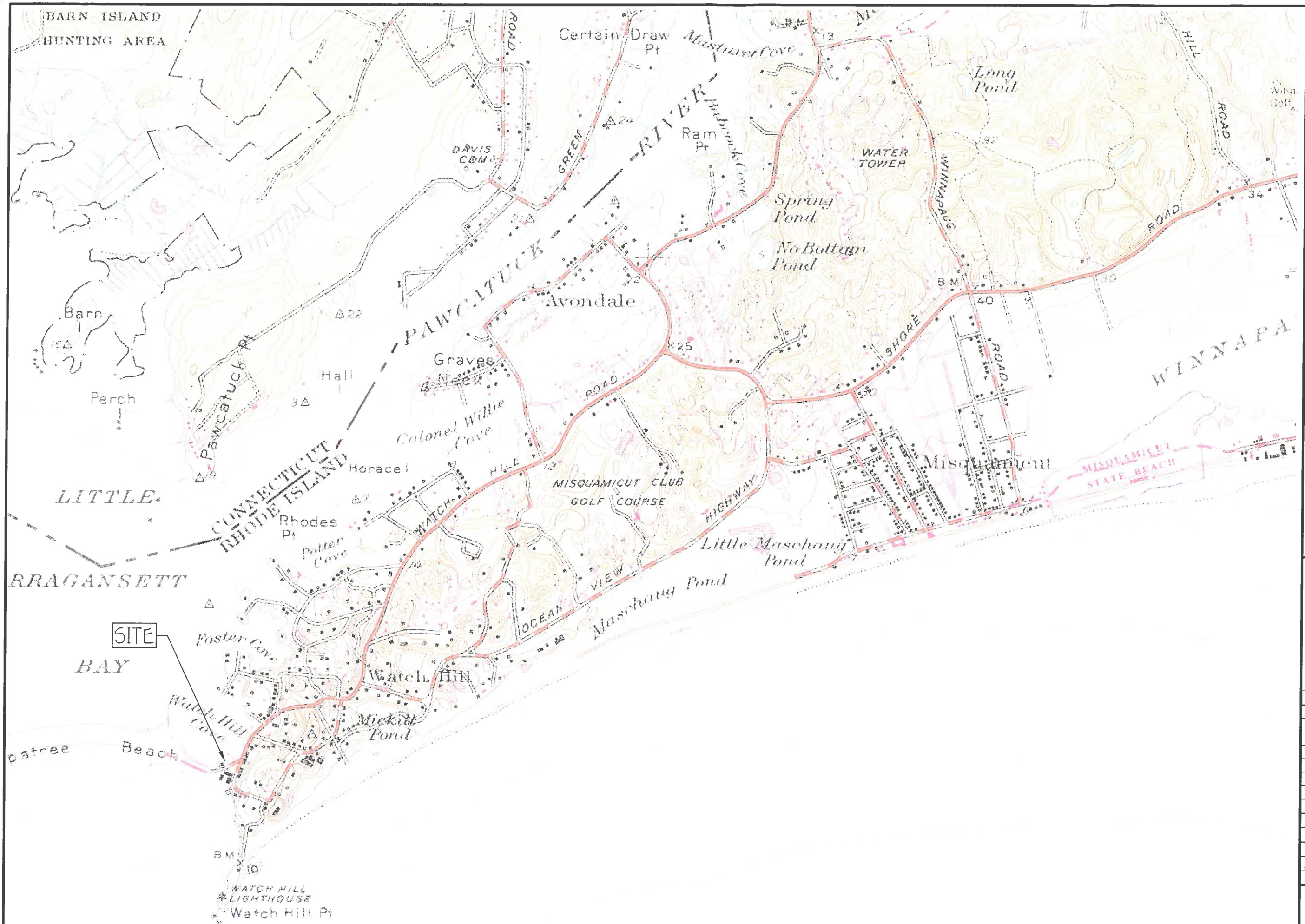
Sample Source: Onsite  
 Sample Description: Light Brown, Fine to Medium SAND



RECEIVED  
 OCT 20 2007  
 14017751-8613  
 GZA GEOTECHNICAL SERVICES, INC.

SIEVE ANALYSIS  
 FROM 2007  
 DREDGING PERMIT

RECEIVED  
 NOV 01 2002  
 COASTAL RESOURCES  
 MANAGEMENT COUNCIL



**i-Site Engineering, INC.**  
 Civil & Environmental Engineering  
 3 Crestview Drive  
 Westerly, Rhode Island 02891  
 401-348-6831

**ANTHONY A. NENNA**  
 No. 7240  
 REGISTERED PROFESSIONAL ENGINEER  
 CIVIL

PROJECT:  
 MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

TITLE  
 SITE LOCATION  
 MAP

REVISIONS

No.	Description	DATE

DESIGNED BY: AAN  
 DRAWN BY: AAN  
 CHECKED BY: AAN  
 DATE: OCTOBER 20, 2022  
 PROJECT No.: 22-003  
 Scale: 1"=1,500'

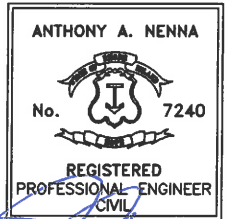
**LEGEND**

5.5 +	EXISTING SPOT ELEVATION/SOUNDING	—W—W—	PROPOSED WATER SERVICE
---5---	EXISTING CONTOUR	—UE—UE—	PROPOSED UNDERGROUND ELECTRICAL
————	EDGE OF POND	—[6]—	PROPOSED CONTOUR
CF-A △	COASTAL FEATURE FLAG	DIAM.	DIAMETER
————	WETLAND BUFFER (50 FT.)	TYP.	TYPICAL
~~~~~	EXISTING TREE LINE	P.T.	PRESSURE TREATED
————	PROPERTY LINE	BIT. CONC.	BITUMINOUS CONCRETE
---W---	EXISTING WATER MAIN	CONC.	CONCRETE
⊙	WELL	F/FLR.	FINISHED FLOOR
		T.O.F.	TOP OF FOUNDATION
		MLW	MEAN LOW WATER
		MHW	MEAN HIGH WATER

**GENERAL NOTES:**

1. THE SUBJECT PROPERTY IS AN EXISTING OPERATIONAL MARINA LOCATED ON WATCH HILL COVE IN THE TOWN OF WESTERLY AT THE WATCH HILL YACHT CLUB LOCATED DIRECTLY OFF OF BAY STREET IN WATCH HILL.
2. THE PROPOSED PROJECT SCOPE CONSISTS OF DREDGING A PORTION OF THE COVE BOTTOM ADJACENT TO THE EXISTING CLUB BUILDING/DOCKS SO THAT BOATS HAVE ADEQUATE DEPTH AT LOW TIDE WHEN DOCKED ON THE EXISTING FLOATING DOCKS. THE DREDGE MATERIAL WILL BE SPREAD ON THE ADJACENT BEACH THAT IS CURRENTLY OWNED BY THE WATCH HILL FIRE DISTRICT. APPROXIMATELY 765 C.Y OF MATERIAL WILL BE REMOVED FROM THE DREDGE AREA.
3. THE SUBJECT PROPERTY IS LOCATED ON WATCH HILL COVE PRIOR TO ENTERING LITTLE NARRAGANSETT BAY.
4. THE UTILITIES SHOWN HEREIN ARE APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY DIG-SAFE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.
6. THE SUBJECT PROPERTY IS LOCATED IN ZONE V, ELEVATION 13, PER FEMA MAP NUMBER 44009C0261J DATED OCTOBER 16, 2013.
7. ELEVATION DAUTM IS NAVD88, MLW=0.

**-Site Engineering, INC.**  
Civil & Environmental Engineering  
3 Crestview Drive  
Westerly, Rhode Island 02891  
401-348-6831



PROJECT: 16-31-22  
**MAINTENANCE DREDGE AT THE WATCH HILL YACHT CLUB**

**WATCH HILL FIRE DISTRICT**  
151 BAY STREET  
WESTERLY RI  
A.P. 185  
LOT 31-1

TITLE  
**NOTES**

REVISIONS		
No.	DESCRIPTION	DATE

DESIGNED BY: AAN  
DRAWN BY: AAN  
CHECKED BY: AAN  
DATE: OCTOBER 20, 2022  
PROJECT No.: 22-003  
Scale: None

**SHT. 2 OF 10**

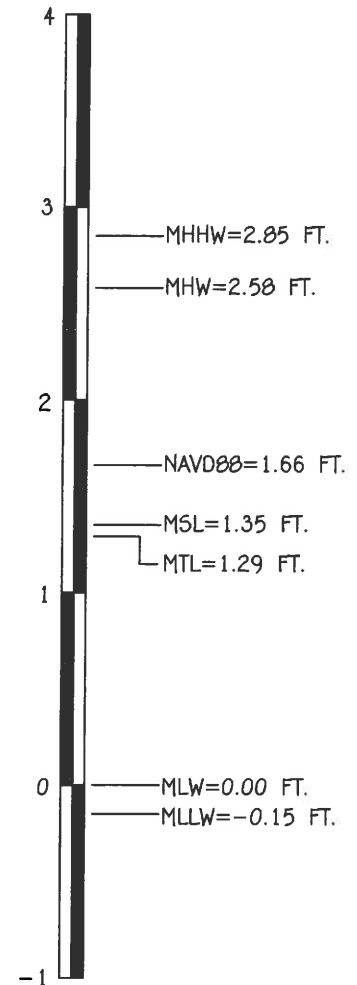
**CONSTRUCTION NARRATIVE**

**PROJECT DESCRIPTION**

THE SUBJECT PROPERTY IS LOCATED AT 1 FORT ROAD, OFF OF BAY STREET IN THE TOWN OF WESTERLY, RHODE ISLAND AND IS PART OF AN EXISTING OPERATIONAL MARINA KNOWN AS THE WATCH HILL YACHT CLUB. THE MARINA IS LOCATED WITHIN WATCH HILL COVE. THE PROPOSED SITE IMPROVEMENTS INCLUDE DREDGING APPROXIMATELY 16,400 S.F. IN ORDER TO REMOVE SAND THAT HAS COLLECTED BETWEEN THE EXISTING BUILDING AND THE EXISTING BULKHEAD. THE BUILD UP OF SEDIMENT IN THIS AREA HAS OCCURRED THROUGH PREVIOUS YEARS AND CAN BE ATTRIBUTED TO THE CURRENT WAVE ACTION AND TIDAL FLUCTUATIONS. THE DREDGING WILL OCCUR WITHIN THE APPROVED MARINA PERIMETER. THE FINAL ELEVATION AT THE COMPLETION OF DREDGING OPERATIONS WILL BE ELEVATION -3.0, ALLOWING BOATS TO BE DOCKED ON THE CLUB'S EXISTING FLOATING DOCKS. APPROXIMATELY 765 CY OF MARINE SEDIMENT WILL BE REMOVED AND TEMPORARILY STOCKPILED ON THE BEACH AREA CURRENTLY OWNED BY THE WATCH HILL FIRE DISTRICT. ONCE THE MATERIAL IS DE-WATERED, THE MATERIAL WILL BE SPREAD ON SITE WITHIN THE EXISTING BEACH AREA. DREDGING WILL BE CONDUCTED WITH A HYDRAULIC CLAM SHELL OR EXCAVATOR. THE EQUIPMENT WILL BE SETUP AT TWO LOCATIONS ON THE EXISTING PARKING LOT IN ORDER TO REACH THE TWO DREDGING AREAS. THE SEDIMENT WILL BE LOADED ONTO A RUBBER TRACK DUMP TRUCK AND HAULED THROUGH THE EXISTING PARKING LOT AND ONTO BAY STREET TO THE DUMP SITE, WHICH IS LOCATED ON AN EXISTING BEACH ADJACENT TO THE CARROUSEL.

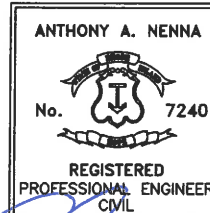
**CONSTRUCTION SEQUENCE**

1. OBTAIN PLAN APPROVAL AND APPLICABLE PERMITS.
2. INSTALL SILT CURTAIN WITHIN DREDGING AREAS.
3. CONSTRUCTION EQUIPMENT MOBILIZATION.
4. START DREDGING. NOTE THAT DREDGING SHALL OCCUR BETWEEN OCTOBER 31st AND JANUARY 31st.
5. TRANSPORT AND STOCKPILE DREDGE SPOILS AS INDICATED ON THE PLANS.
6. ONCE DREDGE MATERIAL IS DRY SPREAD WITHIN EXISTING BEACH AREA.
7. FINALIZE DREDGING AND FINISH GRADING DREDGE SPOILS.



TIDAL DATUM  
ELEVATION INFORMATION FOR  
WATCH HILL POINT  
STATION ID: 8458694





PROJECT: 22-003

MAINTENANCE  
DREDGE AT THE  
WATCH HILL  
YACHT CLUB

WATCH HILL  
FIRE DISTRICT  
151 BAY STREET  
WESTERLY RI  
A.P. 185  
LOT 31-1

TITLE

EXISTING  
CONDITIONS  
PLAN

REVISIONS

No.	DESCRIPTION	DATE

DESIGNED BY: AAN

DRAWN BY: AAN

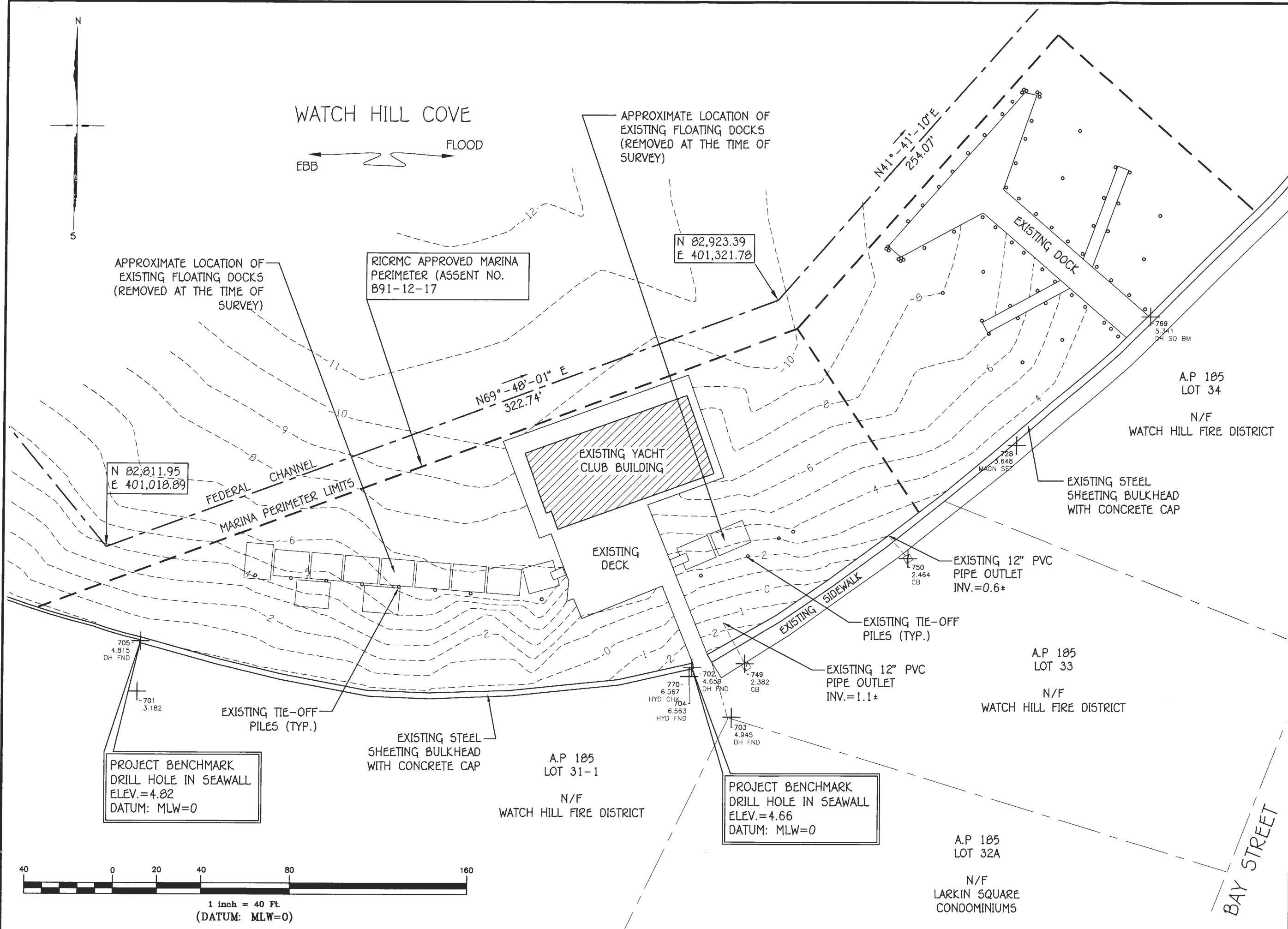
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

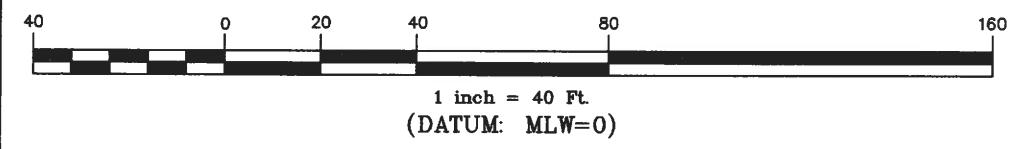
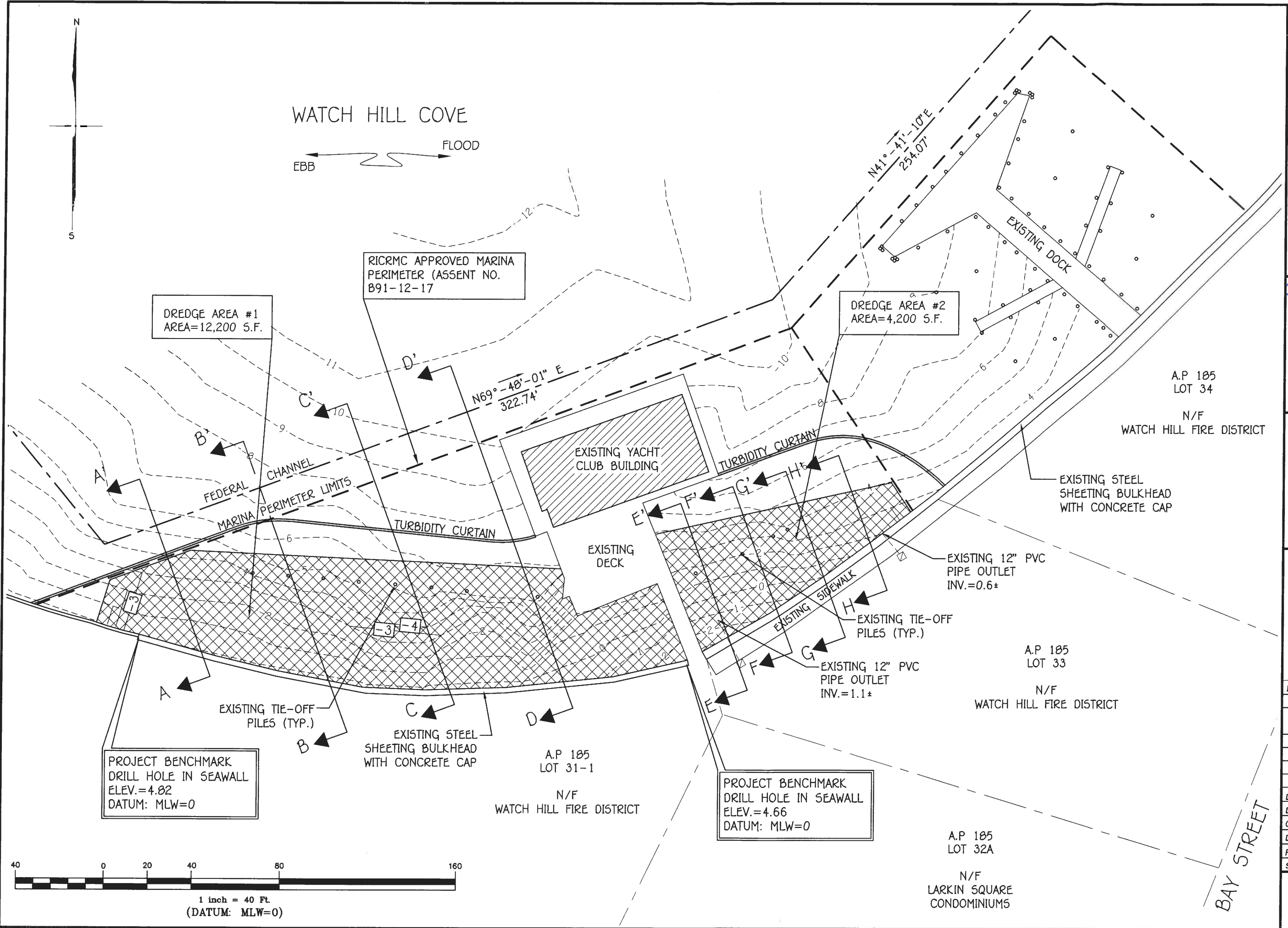
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SHT. 3  
OF 10

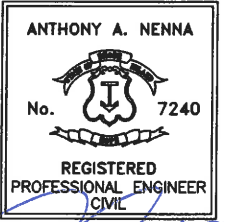




WATCH HILL COVE  
 EBB ← → FLOOD



**-Site Engineering, INC.**  
 Civil & Environmental Engineering  
 3 Crestview Drive  
 Westerly, Rhode Island 02891  
 401-348-6831



PROJECT: *22-003*

**MAINTENANCE DREDGE AT THE WATCH HILL YACHT CLUB**

WATCH HILL FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

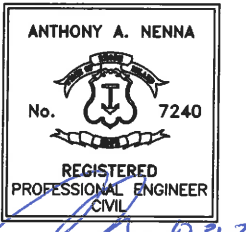
TITLE

**PROPOSED CONDITIONS PLAN**

REVISIONS		
No.	DESCRIPTION	DATE

DESIGNED BY: AAN  
 DRAWN BY: AAN  
 CHECKED BY: AAN  
 DATE: OCTOBER 20, 2022  
 PROJECT No.: 22-003  
 Scale: 1"=40'

**SHT. 4 OF 10**



PROJECT: *10-31-22*  
 MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

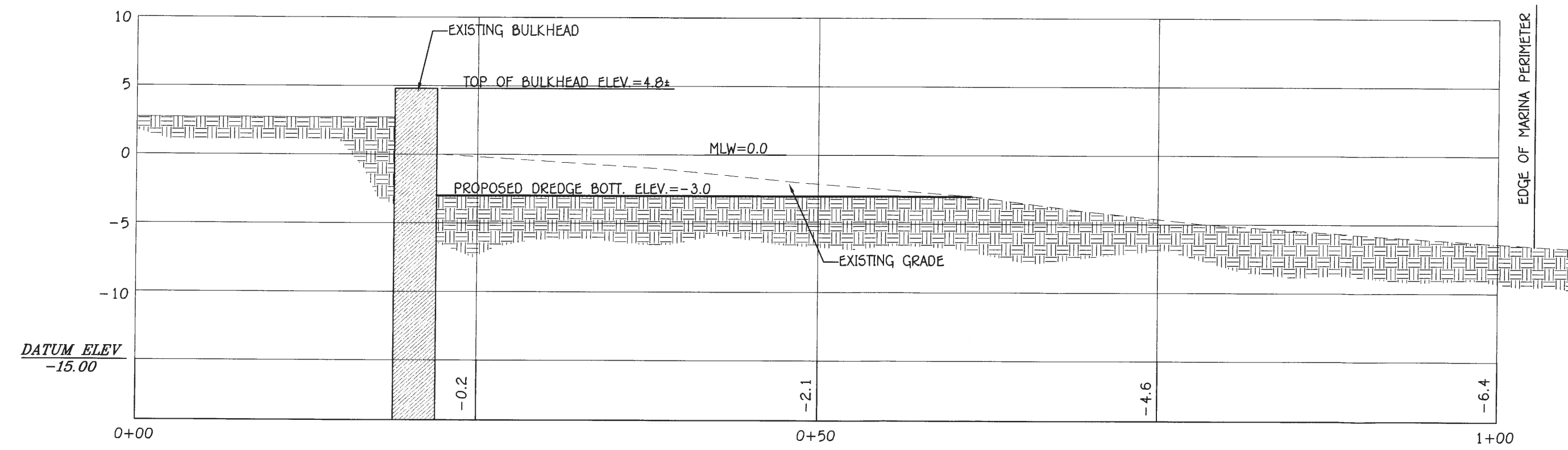
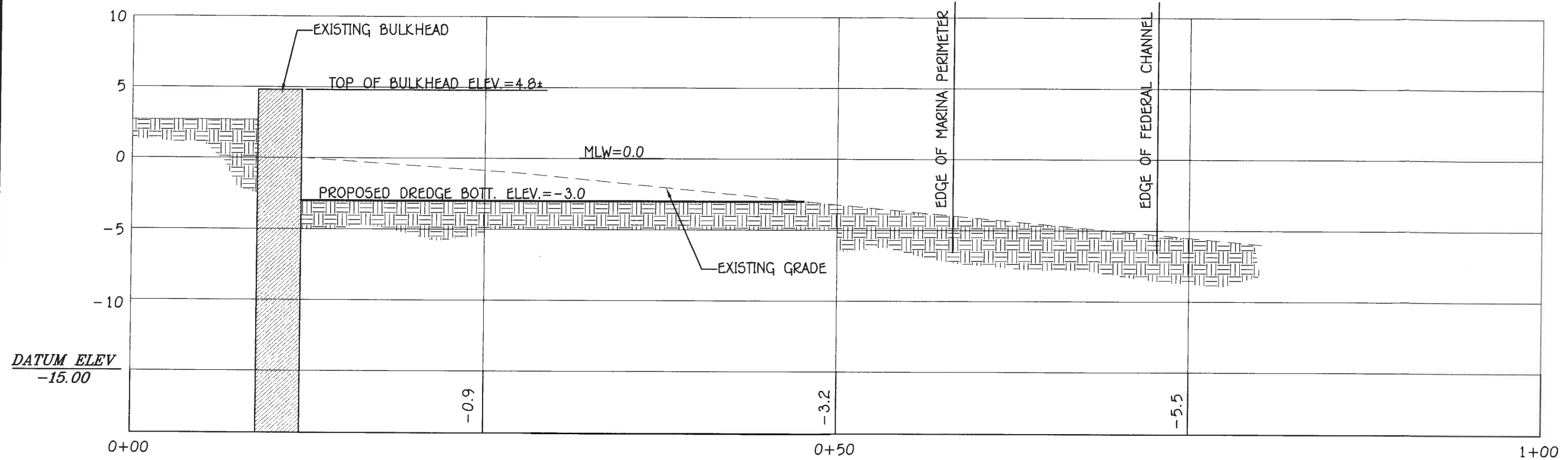
WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

TITLE  
 CROSS  
 SECTIONS

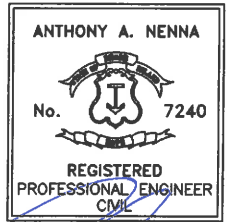
REVISIONS

No.	DESCRIPTION	DATE

DESIGNED BY: AAN  
 DRAWN BY: AAN  
 CHECKED BY: AAN  
 DATE: OCTOBER 20, 2022  
 PROJECT No.: 22-003  
 Scale: AS SHOWN



**-Site Engineering, INC.**  
 Civil & Environmental Engineering  
 3 Crestview Drive  
 Westerly, Rhode Island 02891  
 401-348-6831



PROJECT: *12-31-22*  
 MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

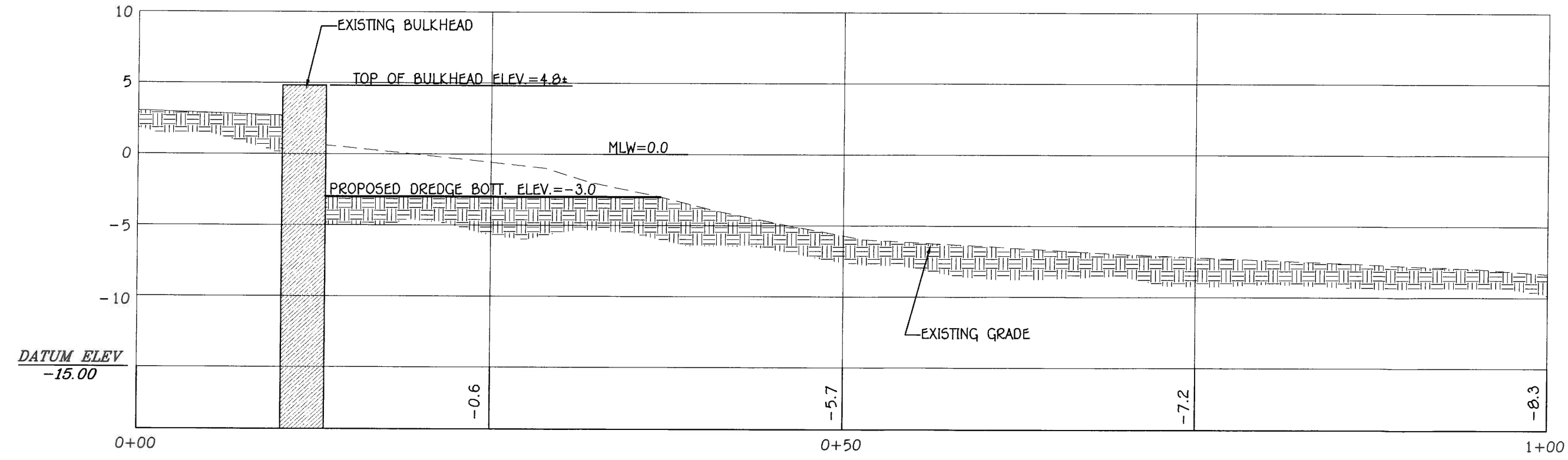
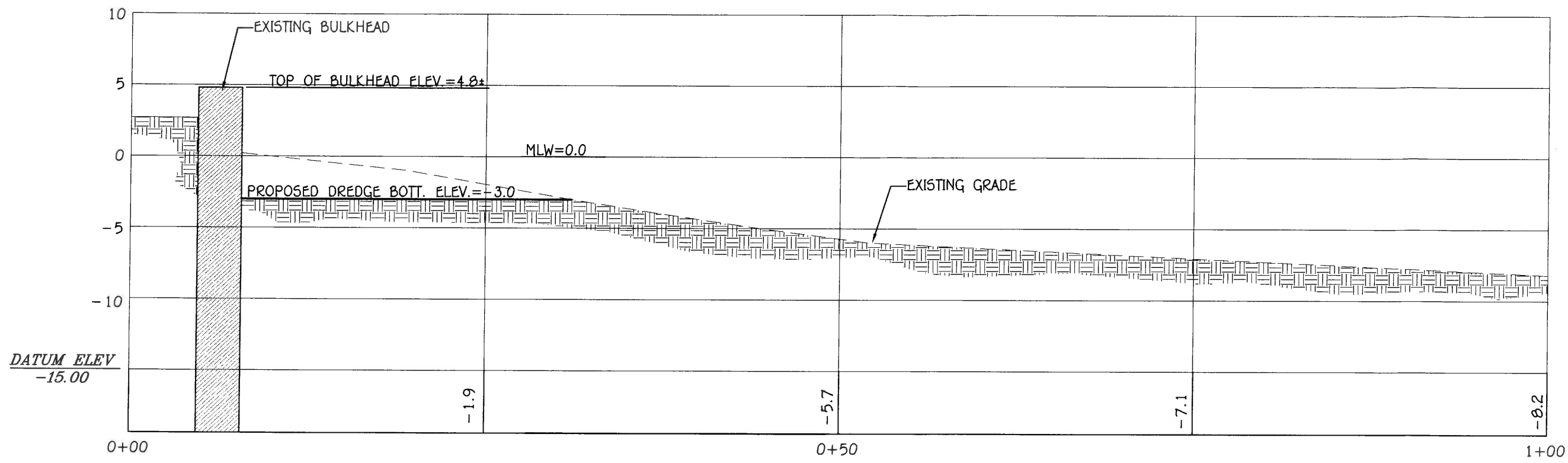
WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

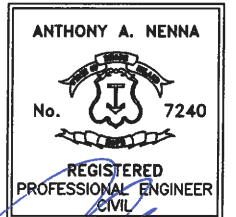
TITLE  
 CROSS  
 SECTIONS

REVISIONS		
No.	Description	DATE

DESIGNED BY: AAN  
 DRAWN BY: AAN  
 CHECKED BY: AAN  
 DATE: OCTOBER 20, 2022  
 PROJECT No.: 22-003  
 Scale: None

SHT. 6  
 OF 10





PROJECT:

MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

TITLE

CROSS  
 SECTIONS

REVISIONS

No.	Description	DATE

DESIGNED BY: AAN

DRAWN BY: AAN

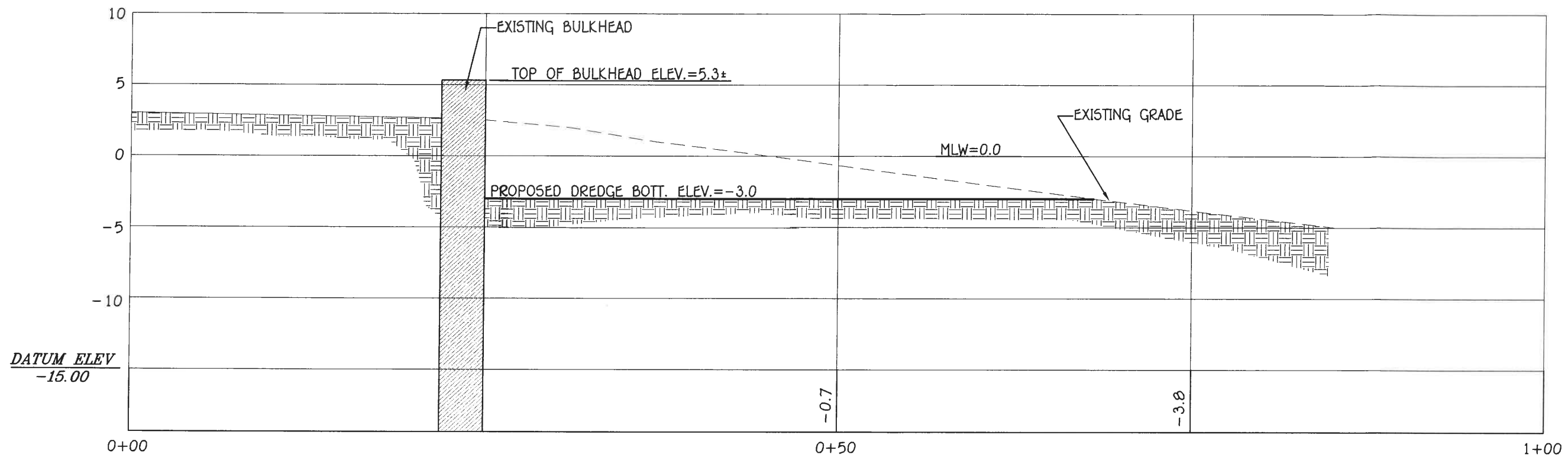
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

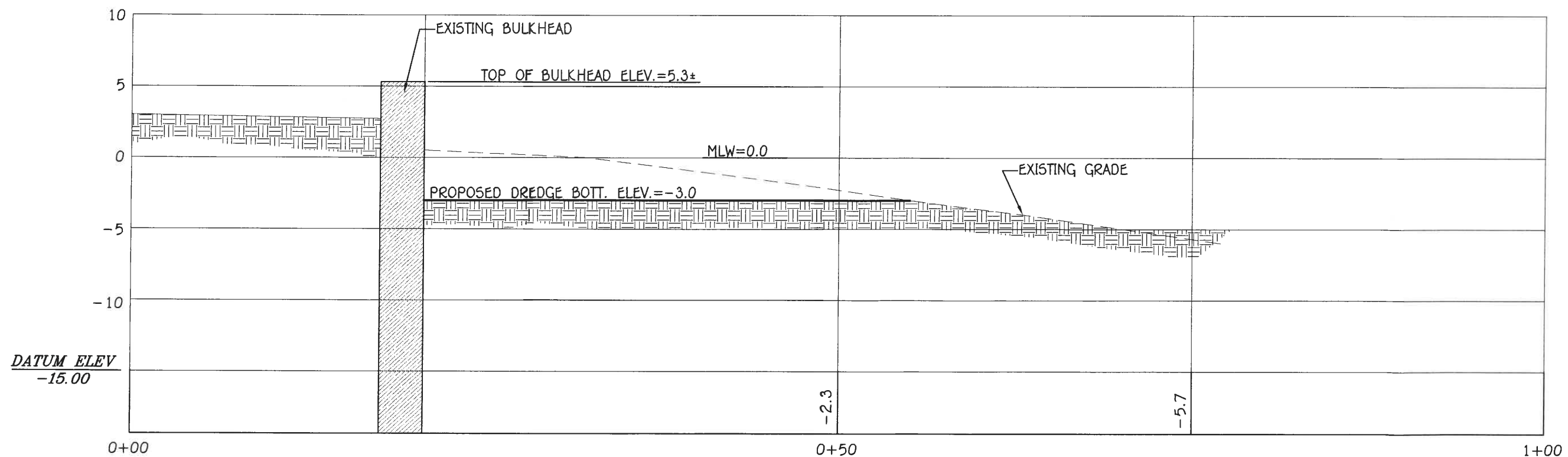
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SHT. 7  
 OF 10



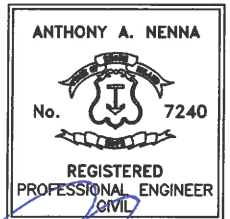
CROSS SECTION E-E'

SCALE: 1/8"=1'



CROSS SECTION F-F'

SCALE: 1/8"=1'



PROJECT:

MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

TITLE

CROSS SECTIONS

REVISIONS

No.	Description	DATE

DESIGNED BY: AAN

DRAWN BY: AAN

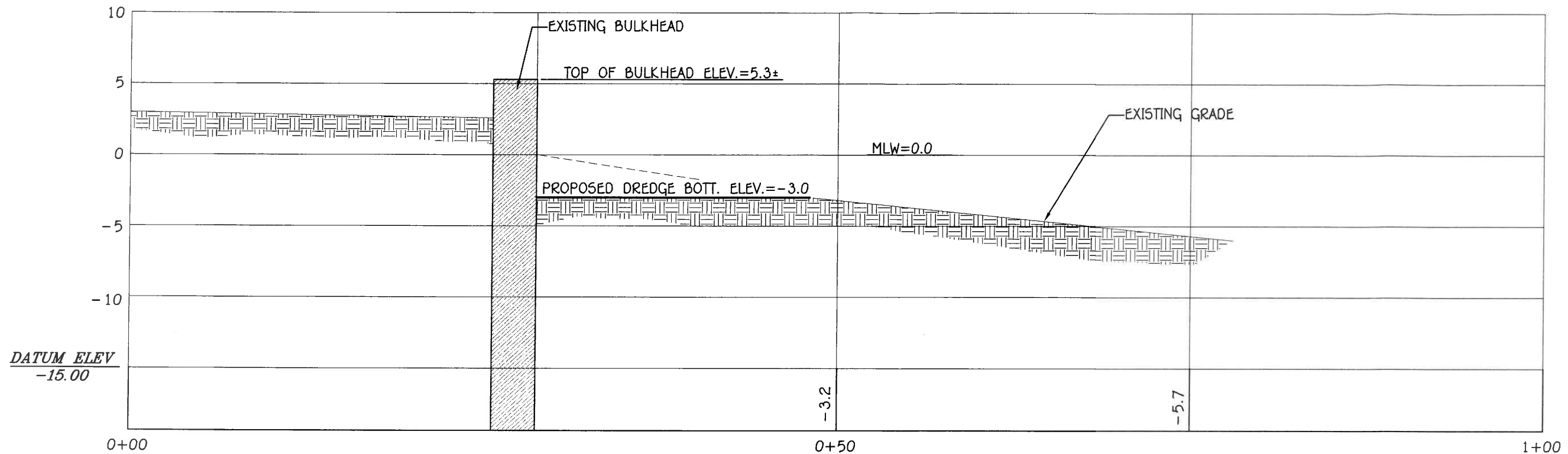
CHECKED BY: AAN

DATE: OCTOBER 20, 2022

PROJECT No.: 22-003

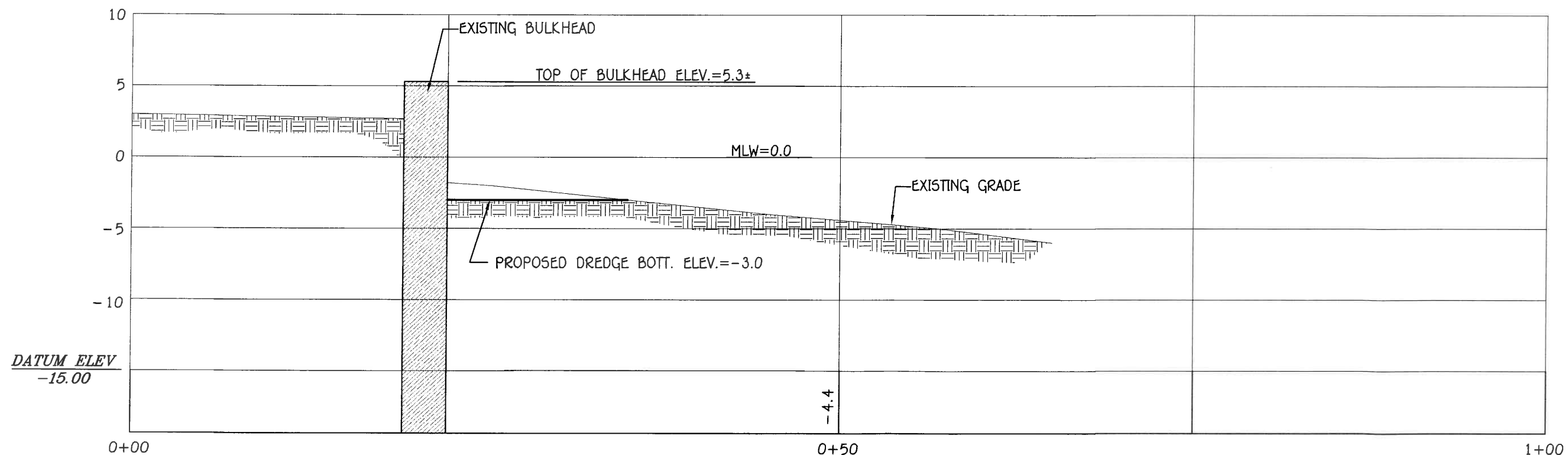
Scale: None

SHT. 8  
 OF 10




CROSS SECTION G-G'

SCALE: 1/8"=1'



CROSS SECTION H-H'

SCALE: 1/8"=1'

**ANTHONY A. NENNA**  
 No.  7240  
 REGISTERED  
 PROFESSIONAL ENGINEER  
 CIVIL

PROJECT:  15-91-72

MAINTENANCE  
 DREDGE AT THE  
 WATCH HILL  
 YACHT CLUB

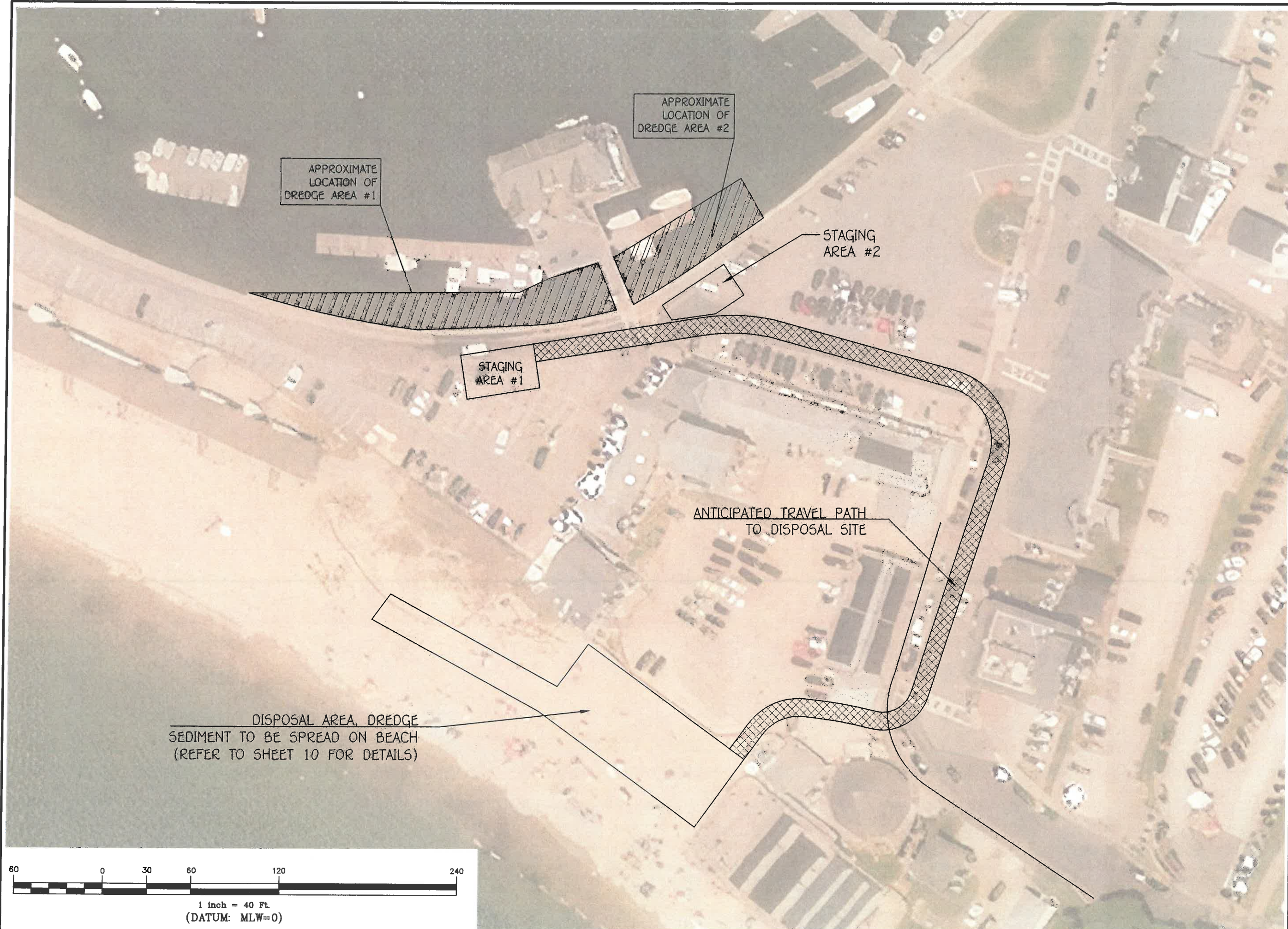
WATCH HILL  
 FIRE DISTRICT  
 151 BAY STREET  
 WESTERLY RI  
 A.P. 185  
 LOT 31-1

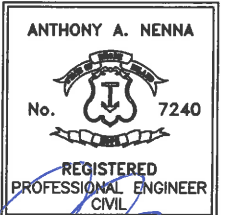
TITLE  
 DREDGE  
 DISPOSAL AREA  
 PLAN

REVISIONS

No.	Description	DATE

DESIGNED BY: AAN  
 DRAWN BY: AAN  
 CHECKED BY: AAN  
 DATE: OCTOBER 20, 2022  
 PROJECT No.: 22-003  
 Scale: 1"=60'





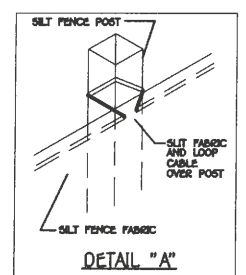
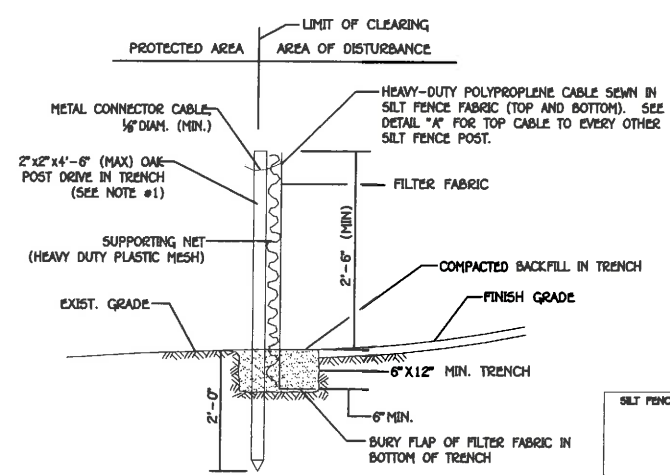
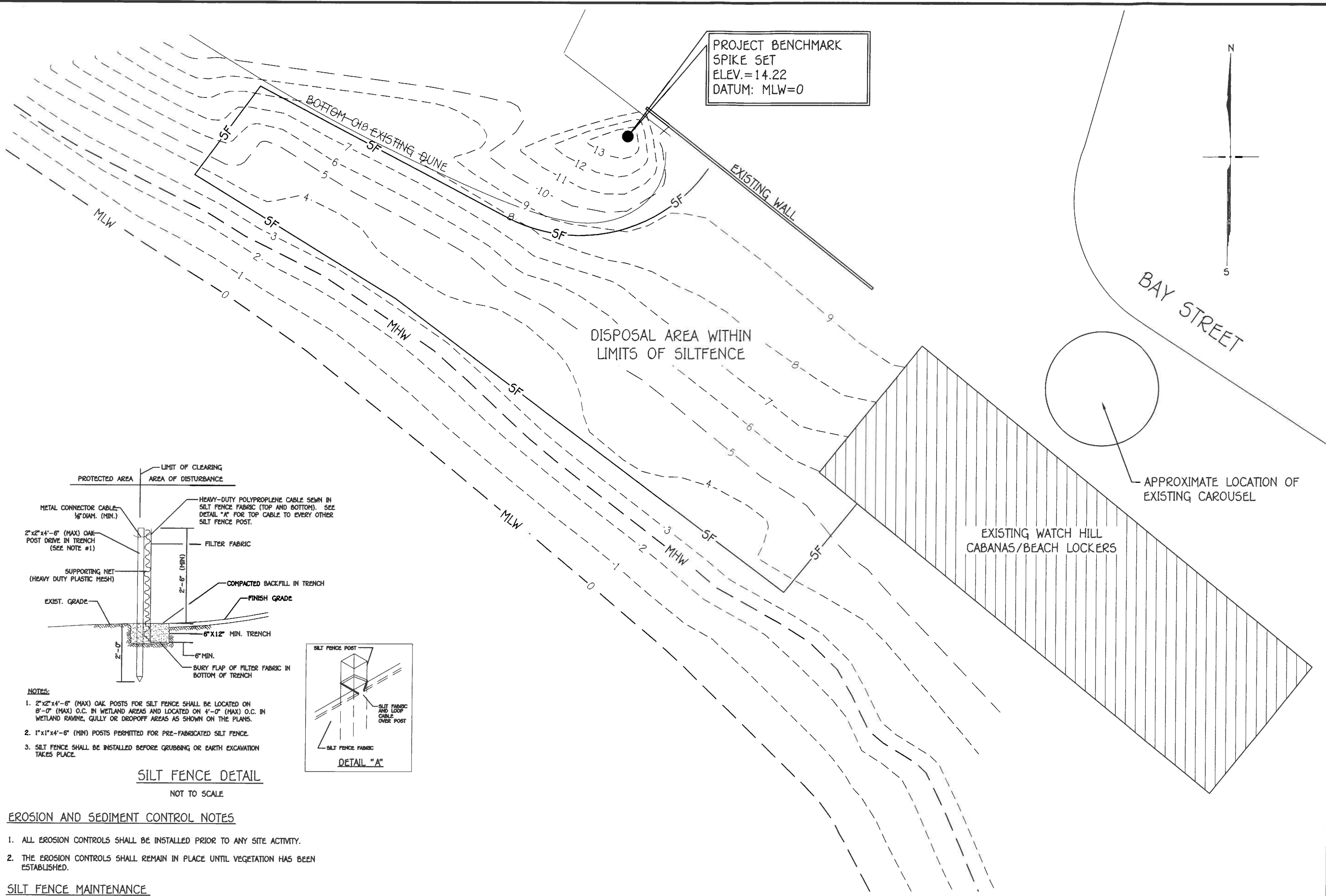
PROJECT:  
**MAINTENANCE DREDGE AT THE WATCH HILL YACHT CLUB**

**WATCH HILL FIRE DISTRICT**  
151 BAY STREET  
WESTERLY RI  
A.P. 185  
LOT 31-1

TITLE  
**DREDGE DISPOSAL SITE PLAN**

REVISIONS		
No.	DESCRIPTION	DATE

DESIGNED BY: AAN  
DRAWN BY: AAN  
CHECKED BY: AAN  
DATE: OCTOBER 20, 2022  
PROJECT NO.: 22-003  
Scale: 1"=60'



- NOTES:**
- 2"x2"x4'-6" (MAX) OAK POSTS FOR SILTFENCE SHALL BE LOCATED ON 8'-0" (MAX) O.C. IN WETLAND AREAS AND LOCATED ON 4'-0" (MAX) O.C. IN WETLAND RAVINE, GULLY OR DROPOFF AREAS AS SHOWN ON THE PLANS.
  - 1"x1"x4'-6" (MIN) POSTS PERMITTED FOR PRE-FABRICATED SILTFENCE.
  - SILTFENCE SHALL BE INSTALLED BEFORE GRUBBING OR EARTH EXCAVATION TAKES PLACE.

- EROSION AND SEDIMENT CONTROL NOTES**
- ALL EROSION CONTROLS SHALL BE INSTALLED PRIOR TO ANY SITE ACTIVITY.
  - THE EROSION CONTROLS SHALL REMAIN IN PLACE UNTIL VEGETATION HAS BEEN ESTABLISHED.
- SILTFENCE MAINTENANCE**
- INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS REQUIRED.
  - CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE BALES IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.

