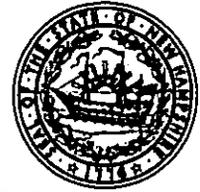




The State of New Hampshire
Department of Environmental Services



Sam
43

Robert R. Scott, Commissioner

OCT27'21 AM 9:17 RCVD

October 20, 2021

His Excellency, Governor Christopher T. Sununu
and The Honorable Council
State House
Concord, NH 03301

REQUESTED ACTION

Approve Chaney and William Fisher's request to perform work on Little Bay in Dover as outlined below. This request is pursuant to New Hampshire Department of Environmental Services (NHDES) file #2021-02377. This project will not have significant impact on, or adversely affect, the values of Little Bay. Comments submitted by the City of Dover Conservation Commission, stating their approval regarding this project as proposed, are included in the enclosed documents.

Impact 60 square feet in the previously developed upland tidal buffer zone, and 560 square feet of tidal wetland, to construct a tidal docking structure consisting of a 15 foot by 4 foot permanent access landing connected to a 4 foot by 60 foot permanent pier connected to a 3 foot by 40 foot seasonal ramp connected to a 10 foot by 20 foot seasonal float. The overall length of the docking structure, seaward of the highest observable tide line, is 135 feet, providing one slip on 70 feet of frontage along Little Bay.

The NHDES imposed the following conditions as part of this approval:

1. All work shall be done in accordance with the approved plans dated July 1, 2021 by Cardin Environmental Consulting and Permitting, and last received by the NH Department of Environmental Services (NHDES) on September 9, 2021, in accordance with Env-Wt 307.16
2. This permit shall not be effective until the permittee records this permit at the Strafford County Registry of Deeds. Any limitations or conditions in the permit so recorded shall run with the land beyond the expiration of the permit. The permittee shall provide the NHDES with a copy of the permit stamped by the registry with the book and page and date of receipt, in accordance with New Hampshire Administrative Rule Env-Wt 314.02(b) and (c).
3. The ramp and float portions of residential tidal docks shall be seasonal and removed from the water during the non-boating season, in accordance with Env-Wt 606.06(b).
4. All work shall be done at low tide when the work area is fully exposed, in accordance with Env-Wt 609.10(b)(4).
5. Tidal docking installation shall be done by barge or upland to prevent the driving of construction equipment in or through tidal waters/wetlands or on the bottom of the inter-tidal zone, in accordance with Env-Wt 606.05(b).
6. Tidal docking construction shall be done in accordance with the standard conditions in Env-Wt 307.
7. Heavy equipment shall not be operated in any jurisdictional area unless specifically authorized by this permit, in accordance with Env-Wt 307.15(a).

EXPLANATION

The NHDES approved this project on September 16, 2021. The NHDES supported its decision with the following findings:

1. This is classified as a Major Project per Rule Env-Wt 606.17(a)(1), for all new overwater structure construction in tidal waters or tidal wetlands.
2. Per Rule Env-Wt 306.05, the applicant has addressed all of the required planning items that are used to determine

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NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

TDD Access: Relay NH 1 (800) 735-2964

the appropriate impact classification and the type of approval required.

His Excellency, Governor Christopher T. Sununu
and The Honorable Council
Page 2

3. Per Rule Env-Wt 311.06(h), the applicant attended the City of Dover Conservation Commission meeting dated September 13, 2021 and they have indicated support of the project.
4. Per Rule Env-Wt 313.01(a)(2), all applicable conditions specified in Env-Wt 307 have been met.
5. Per Rule Env-Wt 313.01(a)(3), all resource-specific and project-specific criteria established in Env-Wt 600 have been met.
6. Per Rule Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, this permit for work to dredge or fill will not 'infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners' based on documentation that the proposed dredge and fill activity will be located entirely within the boundary of the applicant's property interest and will not result in any observable change in off-site surface water levels or flows.
7. Per Rule Env-Wt 313.03(a) and (b), the applicant has demonstrated that potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized.
8. Per Rule Env-Wt 603.09, the applicant obtained a statement, dated April 12, 2021, from the Pease Development Authority, Division of Ports and Harbors regarding the projects impact on navigation and passage.
9. Per Rule Env-Wt 311.01(b), the applicant coordinated with the NH Fish and Game Department and the Natural Heritage Bureau to determine how to avoid and minimize project-related impacts on rare or protected animal species and habitat identified on the NHB Datacheck Report (NHB21-0874).
10. The residential tidal dock project meets the criteria listed in Rule Env-Wt 606.06(a) and (b).
11. Per Rule Env-Wt 606.06(e), the location, design, and method of construction for the proposed residential tidal dock has been based on the results of the coastal functional assessment (CFA), is the least environmentally-impacting practicable alternative, has been certified by a professional engineer as having sufficient structural integrity based on the results of the vulnerability assessment, and will not impede the passage of non-motorized watercraft to a degree that a reasonable person would find objectionable.
12. Per Rule Env-Wt 202.01(b) and as required by RSA 482-A:8, the NHDES finds that the requirements for a public hearing do not apply as the project will not have a significant environmental impact, as defined in New Hampshire Administrative Rule Env-Wt 104.19, on the resources protected by RSA 482-A, or, is not of substantial public interest, as defined in New Hampshire Administrative Rule Env-Wt 104.32.

Application file documents are being forwarded to the Governor and the Executive Council in connection with their consideration of this matter pursuant to RSA 482-A:3, II(a), as it is a major project in public waters of the state.

We respectfully request your approval of this item.



Robert R. Scott
Commissioner



**STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION**
Water Division/Land Resources Management
Wetlands Bureau



Check the Status of your Application

RSA/Rule: RSA 482-A/Env-Wt 100-900

APPLICANT'S NAME: William and Chaney Fisher

TOWN NAME: Dover

| | | | |
|--|--|--|---------------------------|
| | | | File No: <u>2021-6237</u> |
| | | | Check No: <u>3620</u> |
| | | | Amount: <u>\$2240.00</u> |
| | | | Initials: <u>BH</u> |

A person may request a waiver of the requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interest of the public or the environment but is still in compliance with RSA 482-A. A person may also request a waiver of the standards for existing dwellings over water pursuant to RSA 482-A:26, III(b). For more information, please consult the Waiver Request Form.

| | |
|--|---|
| SECTION 1: REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05: RSA 482-A:3, I(d)(2)) Please use the Wetland Permit Planning Tool (WPPT), the Natural Heritage Bureau (NHB) DataCheck Tool, the Aquatic Restoration Mapper, or other sources to assist in identifying key features such as: priority resource areas (PRAs), protected species or habitats, coastal areas, designated rivers, or designated prime wetlands. | |
| Has the required planning been completed? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Does the property contain a PRA? If yes, provide the following information: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| <ul style="list-style-type: none"> Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHF&G) and NHB agreement for a classification downgrade) or a Project-Type Exception (e.g. Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <ul style="list-style-type: none"> Protected species or habitat? <ul style="list-style-type: none"> If yes, species or habitat name(s): <u> </u> NHB Project ID #: <u>21-0874</u> | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| • Bog? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| • Floodplain wetland contiguous to a tier 3 or higher watercourse? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| • Designated prime wetland or duly-established 100-foot buffer? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Is the property within a Designated River corridor? If yes, provide the following information: | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| <ul style="list-style-type: none"> Name of Local River Management Advisory Committee (LAC): <u> </u> A copy of the application was sent to the LAC on Month: <u> </u> Day: <u> </u> Year: <u> </u> | |

| | |
|---|---|
| For dredging projects, is the subject property contaminated? • If yes, list contaminant: <input type="checkbox"/> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Is there potential to impact impaired waters, class A waters, or outstanding resource waters? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| For stream crossing projects, provide watershed size (see WPPT or Stream Stats): <input type="checkbox"/> | |
| SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i)) | |
| Provide a brief description of the project and the purpose of the project, outlining the scope of work to be performed and whether impacts are temporary or permanent. DO NOT reply "See attached", please use the space provided below. | |
| <p>The application is for wharf access at 1 Boston Harbor Road, Dover, NH by installing a permanent 4' x 15' access, a 4' x 60' pier, 3' x 40' gangway and a 10' x 20' float extending from the property in to Little Bay. The pier will be supported by (5) bents containing two piles each. The float will be connected to the pier via the aluminum gangway. The 10' x 20' seasonal float will be supported by four permanently installed guide piles at each end of the float. All piles will consist of 12" diameter Class A, CCA treated timber piles. Float stops will be installed and will be comprised of a frame of stringers between the four float guide piles and will be installed to allow the float to remain at least 24" above the existing substation.</p> <p>The pier, seasonal gangway and float are to be installed via a barge during low tide cycles. The 4' x 15' access is to be installed from land. The use for heavy equipment is not required and minimal ground disturbance is expected outside of securing the access way to the previously disturbed tidal buffer with post footers.</p> <p>Appropriate erosion controls will be installed on the upland side and turbidity curtains will be installed and maintained through the duration of construction.</p> | |
| SECTION 3 - PROJECT LOCATION | |
| Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur. | |
| ADDRESS: <input type="checkbox"/> Boston Harbor Road | |
| TOWN/CITY: <input type="checkbox"/> Dover | |
| TAX MAP/BLOCK/LOT/UNIT: <input type="checkbox"/> Map 7, Lot 2 | |
| US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: <input type="checkbox"/> Little Bay | |
| <input type="checkbox"/> N/A | |
| (Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): | <input type="checkbox"/> 43.12741° North <input type="checkbox"/> 70.84473° West |

irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

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| | | | |
|---|--|----------------------------|------------------------|
| SECTION 4 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 311.04(a)) | | | |
| If the applicant is a trust or a company, then complete with the trust or company information: | | | |
| NAME: <u>William Fisher and Chaney Fisher</u> | | | |
| MAILING ADDRESS: | | | |
| TOWN/CITY: <u>Dover</u> | | STATE: <u>NH</u> | ZIP CODE: <u></u> |
| EMAIL ADDRESS: <u>W.Fisher@fisherchaney.com</u> | | | |
| FAX: <u></u> | | PHONE: <u></u> | |
| ELECTRONIC COMMUNICATION: By initialing here <u>W.F.</u> , I hereby authorize NHDES to communicate all matters relative to this application electronically. | | | |
| SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c)) | | | |
| <input checked="" type="checkbox"/> N/A | | | |
| LAST NAME, FIRST NAME, M.I.: <u>Cardin, Matthew R</u> | | | |
| COMPANY NAME: <u>Cardin Environmental Consulting and Permitting</u> | | | |
| MAILING ADDRESS: <u>30 Old Post Road</u> | | | |
| TOWN/CITY: <u>Newington</u> | | STATE: <u>NH</u> | ZIP CODE: <u>03801</u> |
| EMAIL ADDRESS: <u>matt@cardinenvironmental.com</u> | | | |
| FAX: <u></u> | | PHONE: <u>603-988-6635</u> | |
| ELECTRONIC COMMUNICATION: By initialing here <u>MRC</u> , I hereby authorize NHDES to communicate all matters relative to this application electronically. | | | |
| SECTION 6 - PROPERTY OWNER INFORMATION (IF DIFFERENT THAN APPLICANT) (Env-Wt 311.04(b)) | | | |
| If the owner is a trust or a company, then complete with the trust or company information: | | | |
| <input checked="" type="checkbox"/> Same as applicant | | | |
| NAME: <u></u> | | | |
| MAILING ADDRESS: <u></u> | | | |
| TOWN/CITY: <u></u> | | STATE: <u></u> | ZIP CODE: <u></u> |
| EMAIL ADDRESS: <u></u> | | | |
| FAX: <u></u> | | PHONE: <u></u> | |
| ELECTRONIC COMMUNICATION: By initialing here <u></u> , I hereby authorize NHDES to communicate all matters relative to this application electronically. | | | |

irm@des.nh.gov or (603) 271-2147

NHDES Wetlands Bureau, 29 Hazen Drive, PO Box 95, Concord, NH 03302-0095

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SECTION 7 - RESOURCE-SPECIFIC CRITERIA ESTABLISHED IN Env-Wt 400, Env-Wt 500, Env-Wt 600, Env-Wt 700, OR Env-Wt 900 HAVE BEEN MET (Env-Wt 313.01(a)(3))

Describe how the resource-specific criteria have been met for each chapter listed above (please attach information about stream crossings, coastal resources, prime wetlands, or non-tidal wetlands and surface waters):
Please see attached narrative that includes Avoidance and Minimization Checklist, Coastal Functional Assessment, a Vulnerability Assessment, methods to protect and minimize impacts to natural resources during and as a result of constructing the project and design criteria, water depths, statement regarding impact to navigation and passage and appropriate data screening figures.

SECTION 8 - AVOIDANCE AND MINIMIZATION

Impacts within wetland jurisdiction must be avoided to the maximum extent practicable (Env-Wt 313.03(a)). * Any project with unavoidable jurisdictional impacts must then be minimized as described in the Wetlands Best Management Practice Techniques For Avoidance and Minimization and the Wetlands Permitting: Avoidance, Minimization and Mitigation Fact Sheet. For minor or major projects, a functional assessment of all wetlands on the project site is required (Env-Wt 311.03(b)(10)). *

Please refer to the application checklist to ensure you have attached all documents related to avoidance and minimization, as well as functional assessment (where applicable). Use the Avoidance and Minimization Checklist, the Avoidance and Minimization Narrative, or your own avoidance and minimization narrative.

*See Env-Wt 311.03(b)(6) and Env-Wt 311.03(b)(10) for shoreline structure exemptions.

SECTION 9 - MITIGATION REQUIREMENT (Env-Wt 311.02)

If unavoidable jurisdictional impacts require mitigation, a mitigation pre-application meeting must occur at least 30 days but not more than 90 days prior to submitting this Standard Dredge and Fill Permit Application.

Mitigation Pre-Application Meeting Date: Month: Day: Year:

N/A - Mitigation is not required

SECTION 10 - THE PROJECT MEETS COMPENSATORY MITIGATION REQUIREMENTS (Env-Wt 313.01(a)(1)c)

Confirm that you have submitted a compensatory mitigation proposal that meets the requirements of Env-Wt 800 for all permanent unavoidable impacts that will remain after avoidance and minimization techniques have been exercised to the maximum extent practicable: I confirm submittal.

N/A - Compensatory mitigation is not required

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))
 For each jurisdictional area that will be/has been impacted, provide square feet (SF) and, if applicable, linear feet (LF) of impact, and note whether the impact is after-the-fact (ATF; i.e., work was started or completed without a permit).
 For intermittent and ephemeral streams, the linear footage of impact is measured along the thread of the channel. *Please note, installation of a stream crossing in an ephemeral stream may be undertaken without a permit per Rule Env-Wt 309.02(d), however other dredge or fill impacts should be included below.*
 For perennial streams/ivers, the linear footage of impact is calculated by summing the lengths of disturbances to the channel and banks.
 Permanent impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).
 Temporary impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

| JURISDICTIONAL AREA | | PERMANENT | | | TEMPORARY | | |
|---------------------|--|------------|----|-----|-----------|----|-----|
| | | SF | LF | ATF | SF | LF | ATF |
| Wetlands | Forested Wetland | | | 05 | | | 05 |
| | Scrub-shrub Wetland | | | 02 | | | 02 |
| | Emergent Wetland | | | 02 | | | 02 |
| | Wet Meadow | | | 01 | | | 01 |
| | Vernal Pool | | | 04 | | | 04 |
| | Designated Prime Wetland | | | 03 | | | 03 |
| | Duly-established 100-foot Prime Wetland Buffer | | | 07 | | | 07 |
| Surface Water | Intermittent / Ephemeral Stream | | | 02 | | | 02 |
| | Perennial Stream or River | | | 04 | | | 04 |
| | Lake / Pond | | | 04 | | | 04 |
| | Docking - Lake / Pond | | | 12 | | | 12 |
| | Docking - River | | | 10 | | | 10 |
| Banks | Bank - Intermittent Stream | | | 02 | | | 02 |
| | Bank - Perennial Stream / River | | | 04 | | | 04 |
| | Bank / Shoreline - Lake / Pond | | | 03 | | | 03 |
| Tidal | Tidal Waters | | | 04 | | | 04 |
| | Tidal Marsh | | | 01 | | | 01 |
| | Sand Dune | | | 02 | | | 02 |
| | Undeveloped Tidal Buffer Zone (TBZ) | | | 02 | | | 02 |
| | Previously-developed TBZ | 60 | | 02 | | | 02 |
| | Docking - Tidal Water | 560 | | 02 | | | 02 |
| TOTAL | | 620 | | | | | |

SECTION 12 - APPLICATION FEE (RSA 482-A:3, 1)

| |
|--|
| <input type="checkbox"/> MINIMUM IMPACT FEE: Flat fee of \$400. |
| <input type="checkbox"/> NON-ENFORCEMENT RELATED, PUBLICLY-FUNDED AND SUPERVISED RESTORATION PROJECTS, REGARDLESS OF IMPACT CLASSIFICATION: Flat fee of \$400 (refer to RSA 482-A:3, 1(c) for restrictions). |
| <input checked="" type="checkbox"/> MINOR OR MAJOR IMPACT FEE: Calculate using the table below: |
| Permanent and temporary (non-docking): 320 SF × \$0.40 = \$ 128 |
| Seasonal docking structure: 320 SF × \$2.00 = \$ 640 |
| Permanent docking structure: 300 SF × \$4.00 = \$ 1,200 |
| Projects proposing shoreline structures (including docks) add \$400 = \$ 400 |
| Total = \$ 2,240 |
| The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 2,240 |

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)
 Indicate the project classification:

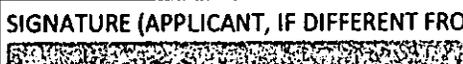
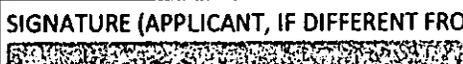
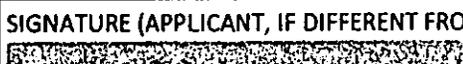
Minimum Impact Project
 Minor Project
 Major Project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11)

Initial each box below to certify:

| | |
|--|--|
| Initials:  | To the best of the signer's knowledge and belief, all required notifications have been provided. |
| Initials:  | The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief. |
| Initials:  | The signer understands that: <ul style="list-style-type: none"> • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: <ol style="list-style-type: none"> 1. Deny the application. 2. Revoke any approval that is granted based on the information. 3. If the signer is a certified wetland scientist, licensed surveyor, or professional engineer licensed to practice in New Hampshire, refer the matter to the joint board of licensure and certification established by RSA 310-A:1. • The signer is subject to the penalties specified in New Hampshire law for falsification in official matters, currently RSA 641. • The signature shall constitute authorization for the municipal conservation commission and the Department to inspect the site of the proposed project, except for minimum impact forestry SPN projects and minimum impact trail projects, where the signature shall authorize only the Department to inspect the site pursuant to RSA 482-A:6, II. |
| Initials:  | If the applicant is not the owner of the property, each property owner signature shall constitute certification by the signer that he or she is aware of the application being filed and does not object to the filing. |

SECTION 15 - REQUIRED SIGNATURES (Env-Wt 311.04(d); Env-Wt 311.11)

| | | |
|--|--|--|
| SIGNATURE (OWNER):  | PRINT NAME LEGIBLY: William Fisher, Channy Fisher | DATE: 7/19/2021 |
| SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):  | PRINT NAME LEGIBLY:  | DATE:  |
| SIGNATURE (AGENT, IF APPLICABLE):  | PRINT NAME LEGIBLY: Matthew Cardin, CWS | DATE: 7/21/2021 |

SECTION 16 - TOWN/CITY CLERK SIGNATURE (Env-Wt 311.04(f))

As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has filed four application forms, four detailed plans, and four USGS location maps with the town/city indicated below.

| | |
|---|--|
| TOWN/CITY CLERK SIGNATURE:  | PRINT NAME LEGIBLY: Susan Mistretta |
| TOWN/CITY: <u>DONCY</u> | DATE: <u>7/23/2021</u> |

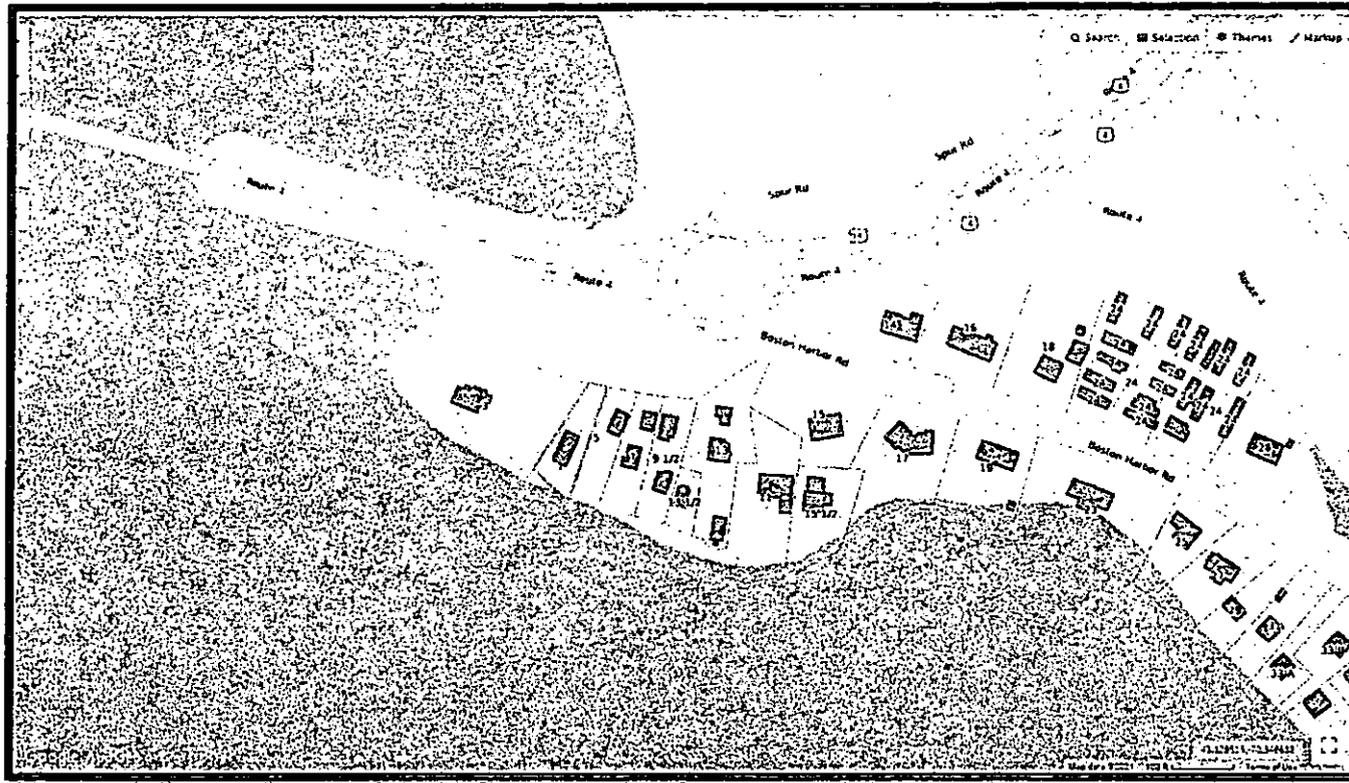
Abutter List

Owner: William Cragg Fisher & Chaney Fisher

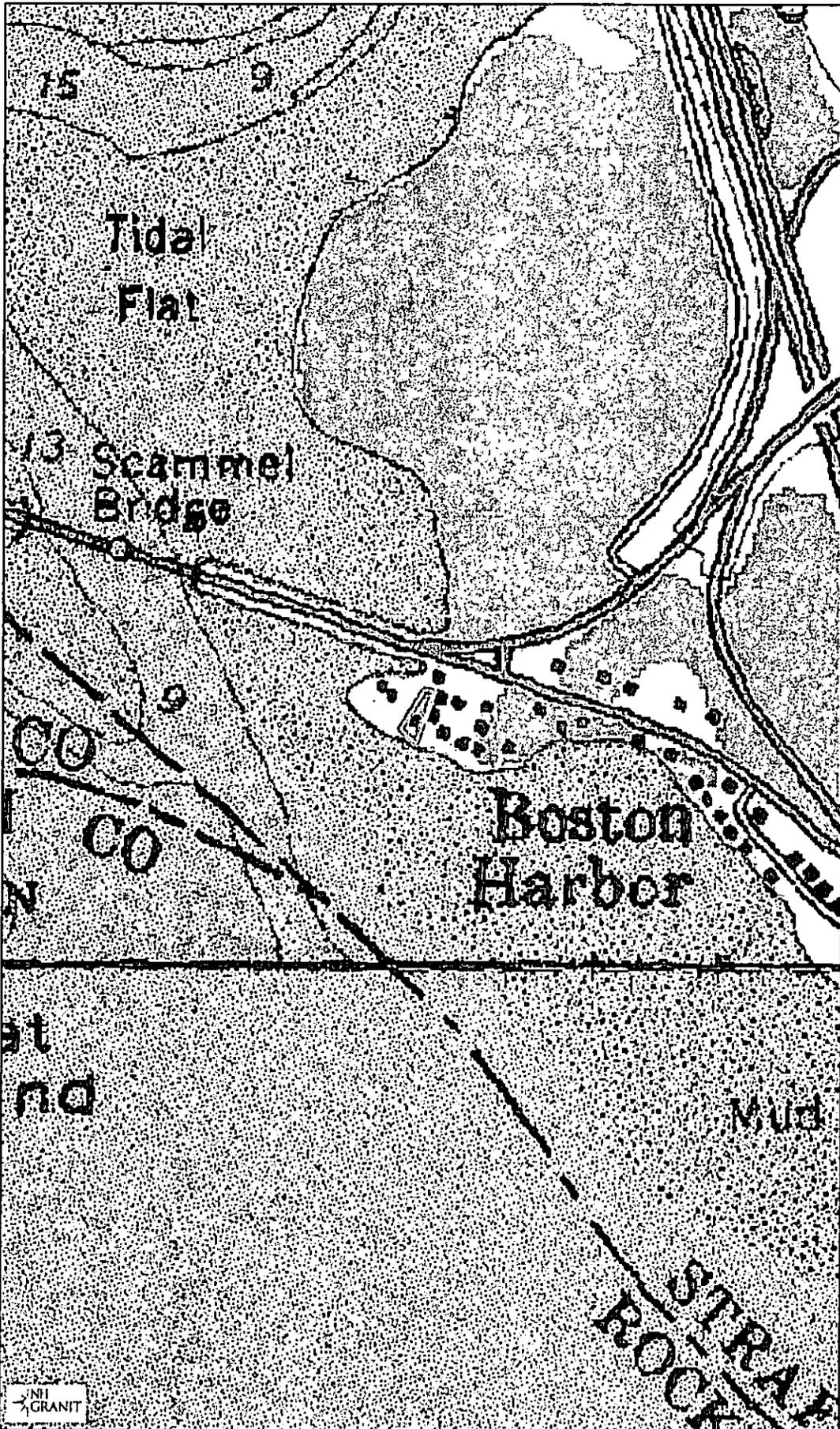
Site Location: 1 Boston Harbor Road, Dover, NH

Map 7, Lot 2

| Map | Lot | Name | Mailing Address | Street Address |
|-----|-----|--|-----------------|--|
| 7 | 1 | Angela Engel & Paul Sapienza Sr. | | 3 Boston Harbor Rd, Dover, NH 03820 |
| 7 | 3 | Michael Leonard & Loraine Worthington | | 5 Boston Harbor Rd, Dover, NH 03820 |



NH GRANIT - 1 Boston Harbor Road, Dover, NH



Legend

- Parcels
 - Parcel Polygons
 - Attributes for Additional Lines
- State
- County
- City/Town

Map Scale

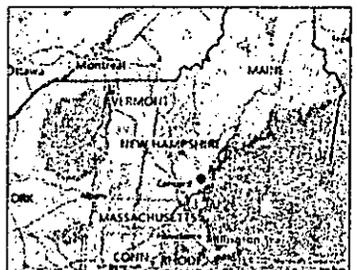
1:6,494



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Map Generated: 3/31/2021

Notes



**New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter**

To: matt cardin, Cardin Environmental Permitting
30 old post road

Newington, NH 03801

From: NH Natural Heritage Bureau

Date: 3/22/2021 (valid until 3/22/2022)

Re: Review by NH Natural Heritage Bureau of request submitted 3/14/2021

Permits: NHDES - Wetland Standard Dredge & Fill - Major, USACE - General Permit

NHB ID: NHB21-0874

Applicant: matt cardin

Location: Dover
1 Boston Harbor Rod

Project

Description: The project proposes for a permanent tidal dock structure located on Little Bay. The structure will consist of a 6' x 90' fixed pier, 3'x30' gangway, 10x20' float, totalling approximately 830 sq. ft of impact, with an overall length of 140 feet.

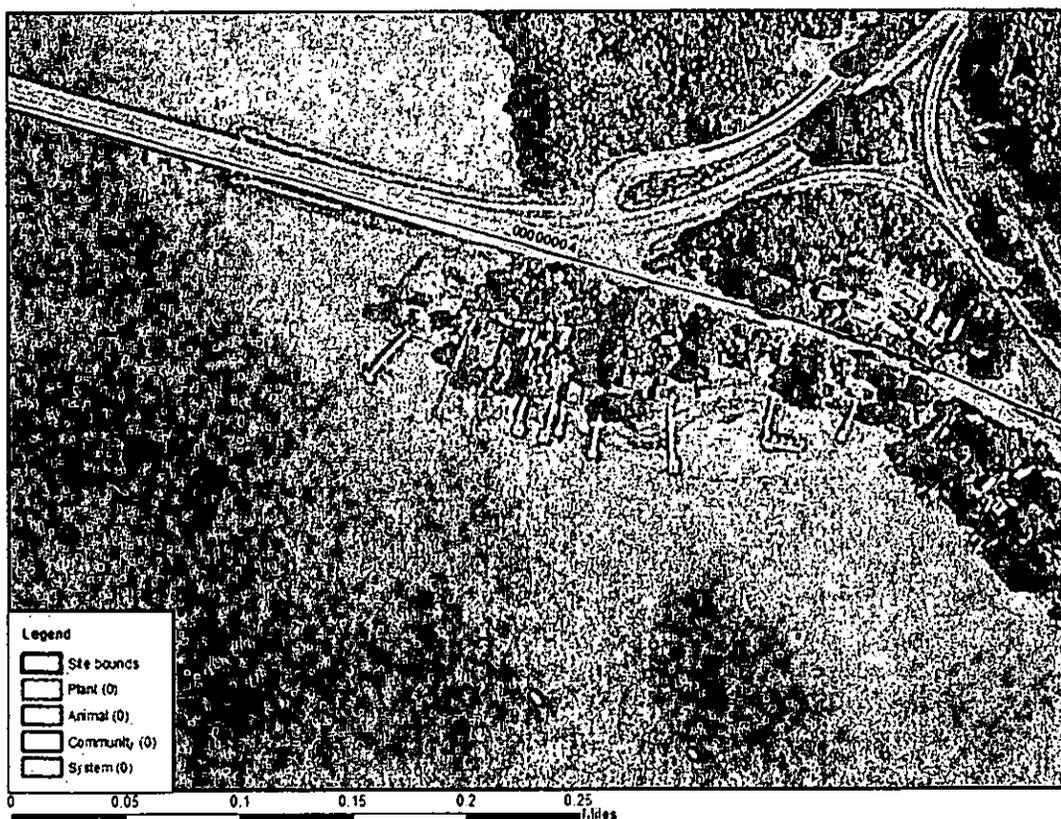
The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered by either the state of New Hampshire or the federal government.

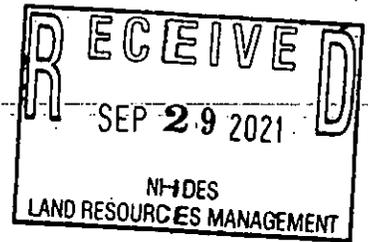
It was determined that, although there was a NHB record (e.g., rare wildlife, plant, and/or natural community) present in the vicinity, we do not expect that it will be impacted by the proposed project. This determination was made based on the project information submitted via the NHB Datacheck Tool on 3/14/2021 10:35:40 PM, and cannot be used for any other project.

New Hampshire Natural Heritage Bureau
NHB DataCheck Results Letter

MAP OF PROJECT BOUNDARIES FOR: NHB21-0874

NHB21-0874





City of Dover, New Hampshire
CONSERVATION COMMISSION
288 Central Avenue
Dover, N.H. 03820-4169

September 15, 2021

Mr. David Price
Department of Environmental Services – Wetlands Bureau
PO Box 95
Concord, NH 03302-0095

Re: Wetlands File Number 2021-02377

Dear Mr. Price:

The Dover Conservation Commission reviewed the Standard Dredge and Fill Permit application for William and Chaney Fisher, located at 1 Boston Harbor Road on September 13, 2021. The applicant, per Wetlands File Number 2021-02377, proposes to construct a new dock with a 4' x 15' access ramp, a 4' x 60' permanent wood pier, a 3' x 40' aluminum gangway, and a 10' x 20' float, in the tidal Little Bay. The project creates 560 square feet of permanent impact to tidal wetland and 60 square feet of permanent impact to the tidal buffer zone.

The Dover Conservation Commission voted unanimously on September 13, 2021 to endorse the NHDES Wetlands Permit application.

Please contact me if you have any questions.

Sincerely,

William Hunt, Chair
Dover Conservation Commission

Cc: Steven Bird, City Planner
Matthew Cardin

7020 3160 0000 5138 3904

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DOVER, NH 03820 OFFICIAL USE

Certified Mail Fee \$3.60

Extra Services & Fees (check box, add fee as appropriate)

| | |
|--|----------|
| <input type="checkbox"/> Return Receipt (hardcopy) | \$ 10.00 |
| <input type="checkbox"/> Return Receipt (electronic) | \$ 4.00 |
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| <input type="checkbox"/> Adult Signature Required | \$ 0.00 |
| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ 0.00 |

Postage \$ 10.55

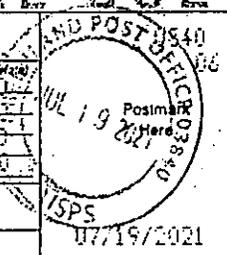
Total Postage and Fees \$ 14.15

Sent To *Freddie Eysel + Paul Saprenza*

Street and Apt. No. or PO box No. _____

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| <input type="checkbox"/> Adult Signature Restricted Delivery | \$ 0.00 |

Postage \$ 10.55

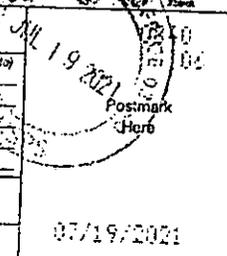
Total Postage and Fees \$ 14.15

Sent To *Michael Leonard Thomas Washington*

Street and Apt. No. or PO box No. _____

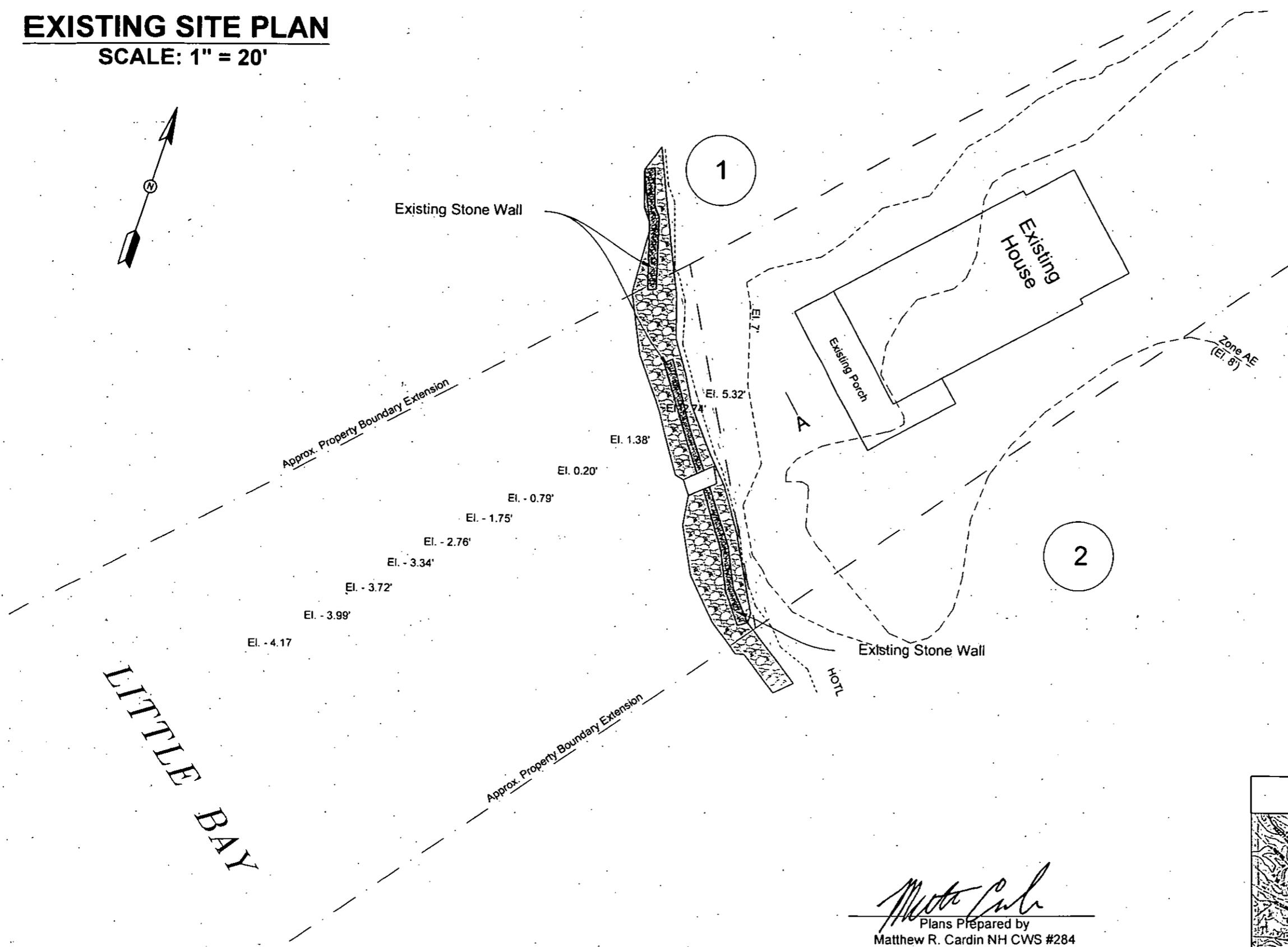
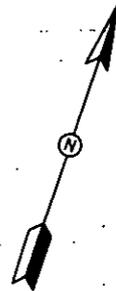
City, State, ZIP+4® _____

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions



EXISTING SITE PLAN

SCALE: 1" = 20'



LEGEND

- Water depth - "El. -2.74"
- Highest observable tide line -
- Mean Low Water -
- Rip-Rap Slope -

APPLICANT:
 WILLIAM CRAG FISHER & CHANEY FISHER
 1 BOSTON HARBOR ROAD, DOVER, NH
 TAX MAP 7, BLOCK 2
 LOT AREA: 0.18 Acres
 FRONTAGE: ~ 69' ON LITTLE BAY

ADJACENT PROPERTY OWNERS:
 1. MAP 7, LOT 1 - ANGELA ENGEL & PAUL SAPIENZE
 2. MAP 7, LOT 3 - MICHAEL LEONORD & MARTHA WORTHINGTON

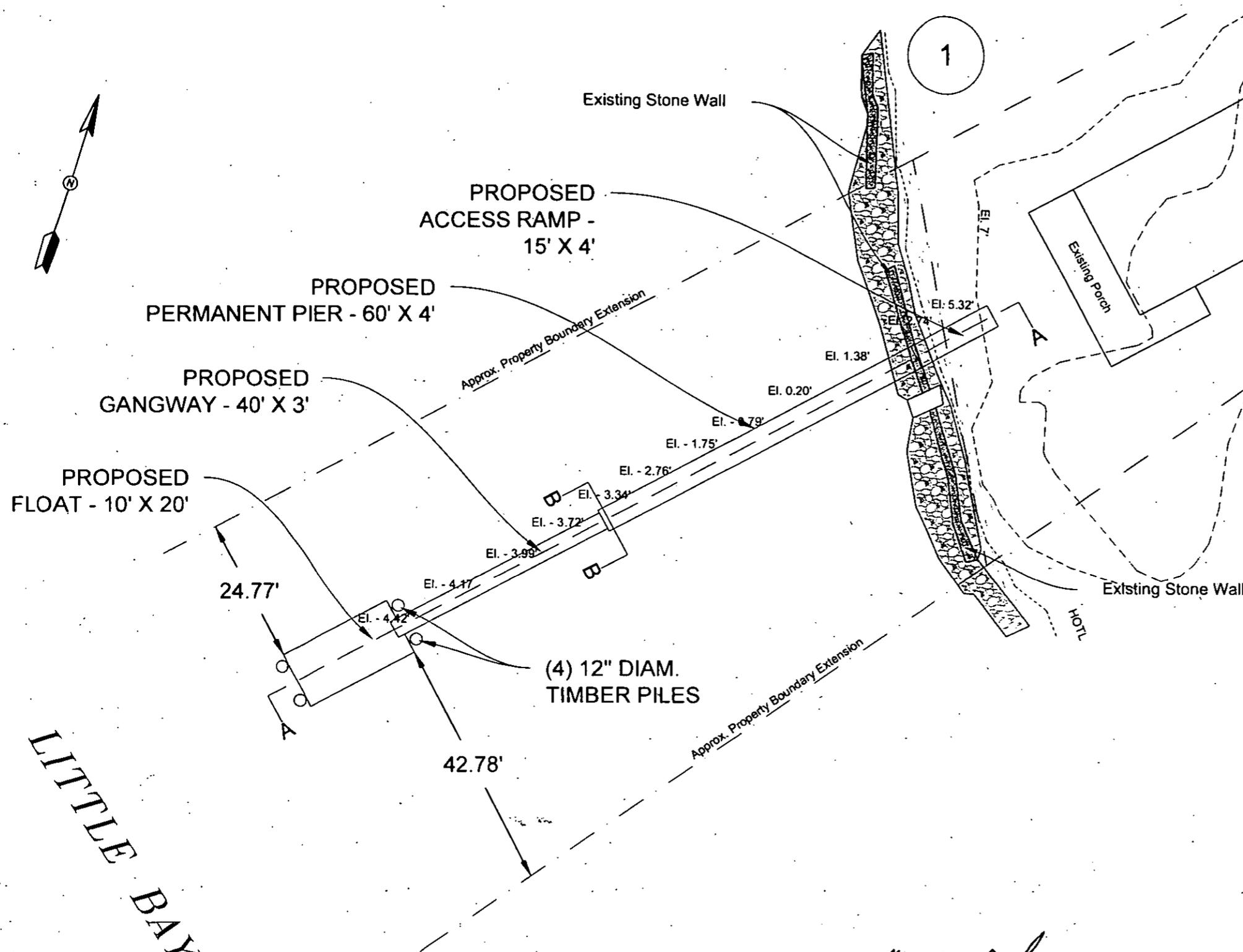
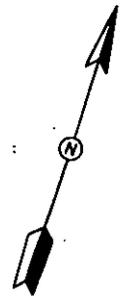
NOTES:
 1. Highest observable tide line determined by Matt Cardin, NH CWS #284 on December 22, 2020 per Env-Wt 602.23.
 2. Water depth measurements portrayed in NAVD88 and determined by R. Alex Ross, LLS # 907
 3. FEMA Flood Zone AE based on FIRM Area Number 33017C0340E, effective 9/30/2015

VICINITY MAP



Matthew R. Cardin
 Plans Prepared by
 Matthew R. Cardin NH CWS #284

| | | |
|---|-------------------------------|---|
| Prepared For: | EXISTING CONDITIONS | PROPOSED: NEW DOCK STRUCTURE |
| WILLIAM FISHER 1 BOSTON HARBOR ROAD DOVER, NH 03820 | ON: LITTLE BAY TOWN: DOVER | AT: 1 BOSTON HARBOR ROAD, DOVER STATE: NH |



| LEGEND | |
|--------------------------------|-----|
| Water depth - "El. -2.74" | |
| Highest observable tide line - | --- |
| Mean Low Water - | --- |
| Rip-Rap Slope - | |

- Permitting Notes:**
1. The work area or proposed dock location does not contain SAS. No vegetated shallows were observed within 25' of proposed dock structure.
 2. Water depths surveyed by Alex Ross, LLS #906 and are shown in NAVD88.
 3. HOTL identified by Matthew Cardin, NHCWS #284 on December 22th, 2020 per Env-Wt 602.23.
 5. Float and gangway to be seasonal structures and removed during winter months when use is not expected.
 5. Engineering notes shown on Sheet 3 of 3.

- Construction Notes & Sequence:**
1. Proposed dock structure: 15'x4' landing, 4' x 60' pier, 4' x 40' gangway, 20'x10' float with four, 12" CCA treated timber piles for a total of 620 sq. ft.
 2. All materials with dock structure to be CCA treated lumber and galvanized hardware
 3. Float and gangway are to be pre-assembled off-site. CCA treated lumber to be pre-treated prior to arrival at site.
 4. Per NH Fish and Game and NOAA Fisheries, there are no time of year restrictions for construction at this location.
 5. Barge, push boat and skiff to be mobilized during high-tide and positioned alongside proposed float location and close enough to shore to shore to not negatively affect navigability.
 6. All work to be done during low-tide intervals where there is no flowing water within the work area.
 7. Temporary turbidity curtain to be placed around work area during high tide to once construction has temporarily stopped.
 8. Piles will be driven by crane to a depth needed to meet lateral load test requirements of 324 lbs. at El. 9.00 for float guide piles and 1,000 lbs. at El. 9.44 for each pier bent. If pile embedment cannot resist test load, refer to Note 7 on Sheet 3 of 3.
 9. Float stop piles will be established by framing the four float piles and will be installed approximately 24" above substrate surface. This work will be done on foot within inter-tidal area and during low tide to minimize turbidity.
 10. The pre-assembled float and gangway to be lifted from the barge via crane and placed

PROPOSED NEW DOCK AND EXISTING STAIR REPLACEMENT

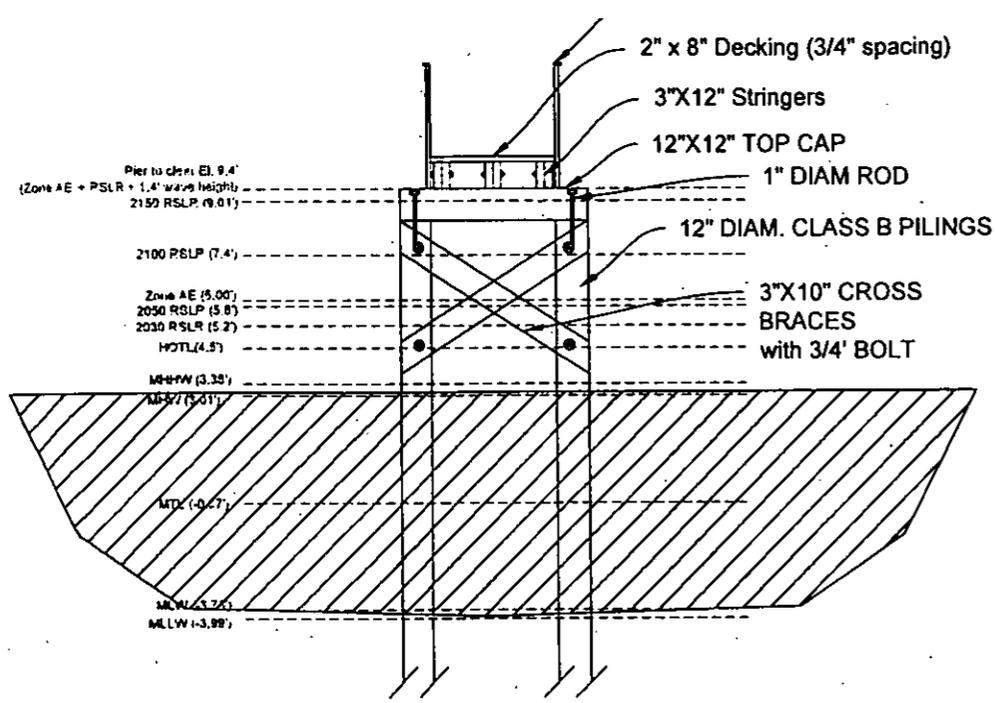
SCALE: 1" = 20'

Matthew R. Cardin
 Plans Prepared by
 Matthew R. Cardin NH CWS #284

Prepared For:
 WILLIAM FISHER
 1 BOSTON HARBOR ROAD
 DOVER, NH 03820

PROPOSED PLANS
 ON: LITTLE BAY
 TOWN: DOVER

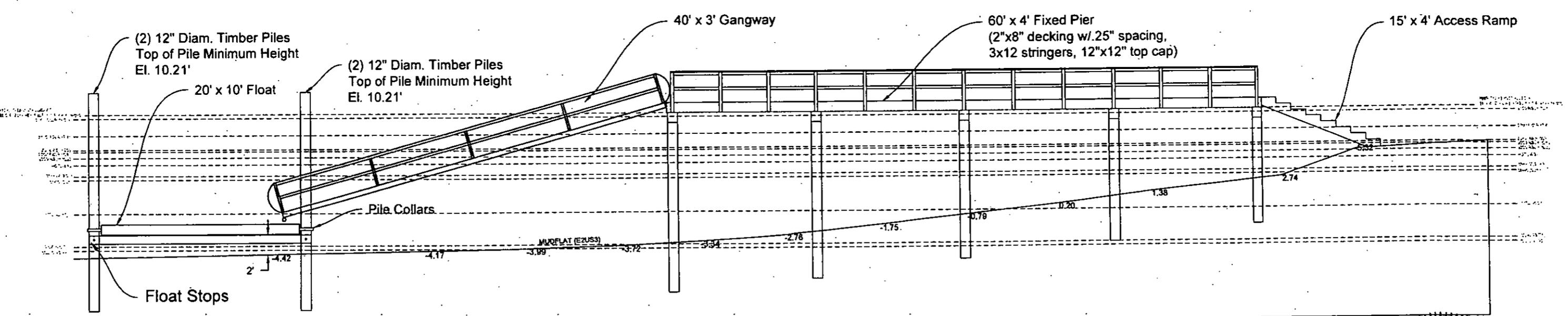
PROPOSED: NEW DOCK STRUCTURE
 AT: 1 BOSTON HARBOR ROAD, DOVER
 STATE: NH



**PROPOSED DOCK
 CROSS-SECTION
 B-B**

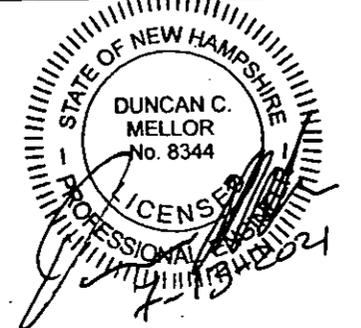
SCALE: 1" = 6'

1. THE RESILIENCY RECOMMENDATION AND BASIS OF ANALYSIS BY CIVILWORKS NEW ENGLAND (CNE) FOR THIS PROJECT IS LIMITED TO THE INFORMATION PROVIDED IN THESE NOTES. THE CLIENT HAS PROVIDED THE SURVEY DATA AND FLOOD ELEVATIONS UPON WHICH CNE IS RELYING FOR THE ANALYSIS. CNE HAS NOT FIELD VERIFIED ANY SURVEY DATA AND CANNOT WARRANTY THE ACCURACY OF THE DATA PROVIDED.
2. BASIC WIND AND WAVE ANALYSIS HAS BEEN PERFORMED TO ESTABLISH PILE LATERAL TESTING LOADS DURING CONSTRUCTION TO PROVIDE A REASONABLE LEVEL OF CONFIDENCE THAT THE PROPOSED DOCK MOORING PILES AND PIER PILES WILL BE ADEQUATE TO RESIST ENVIRONMENTAL LOADS FROM WIND AND WAVES AT THIS LOCATION WITH THE FLOAT AT A WATER LEVEL OF THE FEMA 100 YR FLOOD PLUS A SEA LEVEL RISE ALLOWANCE PROVIDED BY MATTHEW CARDIN, CWS, USING NHDES GUIDELINES.
3. BASIC WIND SPEED FOR THE SITE FOR THE FLOAT IS 87 MPH WITH LOAD FACTOR REMOVED PER ASCE 7 FOR RISK CATEGORY 1, 3 SECOND GUST. SURFACE ROUGHNESS C AND EXPOSURE C, GIVING A WIND PRESSURE OF 16.5 PSF.
4. BASIC WIND SPEED FOR THE SITE FOR THE PIER IS 95 MPH WITH LOAD FACTOR REMOVED PER ASCE 7 FOR RISK CATEGORY 2, 3 SECOND GUST. SURFACE ROUGHNESS C AND EXPOSURE C, GIVING A WIND PRESSURE OF 19.6 PSF.
5. WIND PRESSURE ON FLOAT: AS SEVERAL DAYS OF ADVANCED NOTICE IS ANTICIPATED AHEAD OF SUCH SEVERE WINDS, IT IS ASSUMED A DOCKED BOAT WOULD BE REMOVED FROM THE DOCK AND ONLY THE FLOAT WILL BE SUBJECT TO THE ENVIRONMENTAL LOADING. WITH A FLOAT FREEBOARD OF 1.2 FT AND 20 FT LENGTH ON FOUR PILES, THE LATERAL WIND LOAD PER PILE IS ABOUT 100 POUNDS.
6. THE WIND PRESSURE ON THE PIER, HAS LATERAL WIND LOAD PER PILE BENT (TWO PILES) IS ABOUT 670 POUNDS.
7. TIMBER PILE STRENGTH WAS CHECKED FOR IMPACT OF A DRIFTING ICE FLOE WITH DIMENSIONS OF 20 FT BY 12 FT BY 1 FOOT DRAFT AND A DRIFT SPEED OF 0.5 FPS AND PILE BENDING STRESS WAS ACCEPTABLE.
7. AVERAGE WIND WAVE FETCH FROM SOUTHEAST IS 5,650 FT. THE BASIC WIND SPEED (ASCE 7) IS ADJUSTED FROM A 3 SECOND GUST TO A LONGER DURATION NEEDED TO BUILD FULLY DEVELOPED WIND WAVES. GIVES A SIGNIFICANT WAVE HEIGHT OF 2.7 FT WITH 2.4 SECOND PERIOD FOR THE FLOAT (CAT. 1) AND 2.9 FT WITH 2.4 SECOND PERIOD FOR THE PIER (CAT. 2). WITH AN AVERAGE FLOAT DRAFT OF 0.5 FT THE NON-BREAKING WAVE COULD DEVELOP 216 POUNDS OF LATERAL LOAD PER PILE. THE LATERAL WAVE LOAD ON A PIER PILE BENT (TWO PILES) IS 533 POUNDS USING A H10 WAVE.
8. THE RECOMMENDED LATERAL TEST LOAD PER FLOAT PILE IS 324 POUNDS APPLIED AT ELEVATION 9.0 FT NAVD88 TO PROVIDE A FACTOR OF SAFETY OF 1.5 AND PROVE ADEQUATE MOORING PILE EMBEDMENT. IT IS RECOMMENDED THAT THE FIELD LOAD TESTS BE OBSERVED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE ANALYSIS INTENT.
9. THE RECOMMENDED LATERAL TEST LOAD ON EACH PIER BENT IS 1,000 POUNDS APPLIED AT ELEVATION 9.4 FT NAVD88 TO PROVIDE A FACTOR OF SAFETY OF 1.5 AND PROVE ADEQUATE MOORING PILE EMBEDMENT. IT IS RECOMMENDED THAT THE FIELD LOAD TESTS BE OBSERVED BY A PROFESSIONAL ENGINEER FOR COMPLIANCE WITH THE ANALYSIS INTENT.
7. IF PILE EMBEDMENT CANNOT RESIST THESE TEST LOADS, IT IS RECOMMENDED THAT THE PILES BE DRIVEN DEEPER OR SEABED MOORINGS BE ADDED TO PROVIDE A TOTAL OF 1,300 POUNDS OF LATERAL BREAK AWAY RESISTANCE FOR THE FLOAT AND 1,000 POUNDS PER PIER PILE BENT. PULL TEST EACH MOORING BASED ON ITS PERCENTAGE OF THE RESISTANCE NEEDED.



**PROPOSED DOCK
 CROSS-SECTION
 A-A**

SCALE: 1" = 10'



| | | |
|--|---|--|
| Prepared For: WILLIAM FISHER 1 BOSTON HARBOR ROAD DOVER, NH 03820 | PROPOSED PLANS ON: LITTLE BAY TOWN: DOVER | PROPOSED: NEW DOCK STRUCTURE AT: 1 BOSTON HARBOR ROAD, DOVER STATE: NH |
|--|---|--|

Matthew Cardin

THE ATTACHED PE STAMP IS LIMITED TO ANALYSIS REQUESTED BY NHDES WETLANDS BUREAU FOR VULNERABILITY ASSESSMENT OF THE PROPOSED STRUCTURE TO NOT BREAK FREE AS A RESULT OF TIDAL FORCES UP TO AND