



The State of New Hampshire  
**Department of Environmental Services**



84

**Robert R. Scott, Commissioner**

August 13, 2019

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

**REQUESTED ACTION**

Approve Mary Ann Lohnes Ehrenworth's request to perform the following work on Little Bay in Durham. File # 2019-00742. This project will not have significant impact on or adversely affect the values of Little Bay.

Impact 20 square feet within the previously developed upland tidal buffer zone for construction of a 4 foot by 5-foot access way. In addition, impact 340 square feet of tidal wetland to construct a tidal docking structure consisting of a 4-foot by 20-foot fixed pier, a 3-foot by 20-foot ramp and a 10-foot by 20-foot float. The overall structure length seaward of the highest observable tide line is 67 feet, providing two slips on 75 feet of frontage along Little Bay.

The New Hampshire Department of Environmental Services (NHDES) imposed the following conditions as part of this approval:

1. All work shall be in accordance with plans by Riverside and Pickering Marine Contractors dated February 19, 2019, and revised through May 29, 2019 last received by the NH Department of Environmental Services (NHDES) on June 06, 2019.
2. This permit shall not be effective until recorded at the Strafford County Registry of Deeds Office by the permittee. A copy of the recorded permit shall be submitted to the NHDES Wetlands Bureau prior to construction.
3. Not less than 5 state business days prior to starting work authorized by this permit, the permittee shall notify the NHDES Wetlands Bureau Pease office and the local conservation commission in writing of the date on which work under this permit is expected to start.
4. Any future work in jurisdiction as specified in RSA 482-A on this property will require a new application and approval by the NHDES Wetlands Bureau.
5. This permit does not authorize the removal of trees or saplings within the waterfront buffer that would result in a tree and sapling point score below the minimum required per RSA 483-B:9, V, (a)(2)(D)(iv).
6. No person undertaking any activity shall cause or contribute to, or allow the activity to cause or contribute to, any violations of the surface water quality standards in RSA 485-A and New Hampshire Administrative Rule Env-Wq 1700.
7. Construction of this tidal docking structure consisting of a 4-foot by 5-foot access way within the previously developed upland tidal buffer zone, a 4 foot by 20 foot fixed pier, a 3 foot by 20 foot ramp and a 10 foot by 20 foot float, with an overall structure length seaward of the highest observable tide line of 67 feet, providing two boat slips on 75 feet of frontage along Little Bay shall be the only dock structure on this water frontage.
8. The height of the pier's decking over the surface of the tidal wetland at normal high tide shall be a minimum of 4 feet.
9. Decking shall have at least 1-inch spacing between the decking planks to provide sufficient sunlight penetration and rainfall to underlying vegetation.
10. The structure shall be constructed to utilize float stops to maintain a minimum vertical distance of 18 inches between the bottom of the float and the surface of the mudflat at low tide.

11. The seasonal structures, including but not limited to the gangway and float, shall be removed during the non-boating season and stored on the existing pier or in an upland location.
12. Piers shall be located outside of the marsh and only be driven during low tide.
13. Construction of the dock shall occur from a barge equipped with a crane, at low tide, to reduce potential impacts to the estuarine intertidal wetlands.
14. Appropriate siltation/erosion/turbidity controls shall be in place prior to construction, shall be maintained during construction, and shall remain in until the area is stabilized.
15. Work shall be conducted in a manner so as to minimize turbidity and sedimentation to surface waters and wetlands.
16. Work shall be conducted in a manner that avoids excessive discharges of sediments to fish spawning areas.
17. All construction-related debris shall be properly disposed of outside of the areas subject to RSA 482-A.
18. Within three days of final grading or temporary suspension of work in an area that is in or adjacent to wetlands or surface waters, all exposed soil areas shall be stabilized by seeding and mulching during the growing season, or if not within the growing season, by mulching with tack or netting and pinning on slopes steeper than 3:1.

#### EXPLANATION

The NHDES approved this project on July 03, 2019. The NHDES supported its decision with the following findings:

1. This is a Major Project per New Hampshire Administrative Rule Env-Wt 303.02(a), projects in sand dunes, tidal wetlands, or bogs, except for the repair of existing structures pursuant to Env-Wt 303.04(v).
2. The applicant has provided evidence which demonstrates that this proposal is the alternative with the least adverse impact to areas and environments under the department's jurisdiction per New Hampshire Administrative Rule Env-Wt 302.03.
3. The dock is the minimum length necessary to provide access at this location and float stops will prevent the dock from sitting on the mud at low tide.
4. The decking will have a minimum of 4 feet of deck height, and will have 1-inch spacing between the decking planks. Further, the applicant will be utilizing a barge and crane to complete construction of the dock from the water to minimize impacts to the wetland resource.
5. The applicant has demonstrated by plan and example that each factor listed in New Hampshire Administrative Rule Env-Wt 302.04(a) and (c), Requirements for Application Evaluation, has been considered in the design of the project.
6. The NH Natural Heritage Bureau (NHB) has determined that, although there was a NHB record present in the vicinity, no impact is expected by the proposed project (NHB19-0214).
7. The approved location, size and configuration of this dock is consistent with other tidal dock approvals in this area.
8. In accordance with RSA 482-A:8, NHDES finds that the requirements for a public hearing do not apply as the permitted project is not of substantial public interest, and will not have a significant impact on or adversely affect the values of the estuarine resource, as identified under RSA 482-A:1.
9. In correspondence dated March 13, 2019, the Pease Development Authority, Division of Ports and Harbors, determined that the project would have no negative effect on navigation in the channel.
10. In correspondence dated April 23, 2019, the Durham Conservation Commission recommended approval of the project, as proposed.
11. In correspondence dated September 12, 2018, a letter of authorization was signed by the permittee, allowing his/her agent to act on their behalf through the permitting process.
12. In correspondence dated February 27, 2019, the New Hampshire Division of Historical Resources found that the project, as proposed, will have no effect on any potential nearby historical resources.
13. In correspondence received June 03, 2019, the applicant's agent requested a waiver from NHDES to New Hampshire Administrative Rule Env-Wt 301.01(g)(1), Delineation of Wetland Boundaries (requiring stamped plans for major projects).

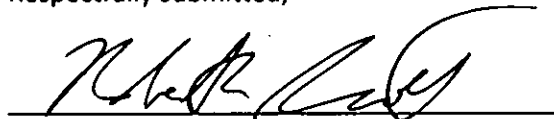
14. The jurisdictional boundary was determined through a combination of detailed elevation survey of the upland, of the shoreline and from a bathymetric survey of the adjacent intertidal and partial subtidal area. The highest observable tide line and tidal wetland areas were delineated based on visual indicators (i.e., waterline and flotsam line along the embankment) in combination with the surveyed elevation data.

15. Further, NHDES staff field inspection on July 02, 2019 found that the project site and jurisdictional boundaries are accurately represented in the application plans.

16. In accordance with New Hampshire Administrative Rule Env-Wt 204.04, Criteria, a waiver will be granted if the project will not have an adverse impact to the environment or natural resources of the state, public health, or public safety, and the strict compliance with the rule will provide no benefit to the public and will cause an operational or economic hardship to the applicant.

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.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Robert R. Scott", is written over a horizontal line.

Robert R. Scott  
Commissioner



# WETLANDS PERMIT APPLICATION

Water Division/ Wetlands Bureau  
Land Resources Management

Check the status of your application: [www.des.nh.gov/onestop](http://www.des.nh.gov/onestop)



RSA/Rule: RSA 487-K, Env-W: 100-900

**COMPLETE**

17-2019

Administrative Use Only

Check No: 2389

Amount: 6,116.00

Initial: LSY

**1. REVIEW TIME:** Indicate your Review Time below. To determine review time, refer to Guidance Document/A for Instructions.

Standard Review (Minimum, Minor or Major Impact)  Expedited Review (Minimum Impact only)

**2. MITIGATION REQUIREMENTS:**  
If mitigation is required, a Mitigation Pre-Application Meeting must occur prior to submitting the Wetlands Permit Application. To determine if mitigation is required, please refer to the Determining Mitigation is Required Frequently Asked Questions.

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

N/A - Mitigation is not required

**3. PROJECT LOCATION:**  
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: **18 Colony Cove Road** TOWN/CITY: **Durham**

TAX MAP: **12** BLOCK: \_\_\_\_\_ LOT: **26** UNIT: \_\_\_\_\_

USGS TOPO MAP WATERBODY NAME: **Little Bay**  NA STREAM WATERSHED SIZE:  NA

LOCATION COORDINATES (if known): **x 1197372.2 y 224307.4 NH State Plane (NAD83)**  Latitude/Longitude  UTM  State Plane

**4. PROJECT DESCRIPTION:**  
Provide a brief description of the project outlining the scope of work. Attach additional sheets as needed to provide a detailed explanation of your project. **DO NOT** reply "See Attached" in the space provided below.

Provide 4 ft and 20 ft permanent pier with associated 4 ft wide access and 3 ft x 20 ft gangway and 10 ft x 20 ft float secured by float piles. This will be the only docking structure on the applicants frontage.

**5. SHORELINE FRONTAGE:**

N/A This does not have shoreline frontage. SHORELINE FRONTAGE: **75'**

Shoreline Frontage is calculated by determining the average of the distances of the actual natural navigable shoreline frontage and a straight line drawn between the property lines, both of which are measured at the normal high water line (Env-Wt 101.89).

**6. RELATED NHDES LAND RESOURCES MANAGEMENT PERMIT APPLICATIONS ASSOCIATED WITH THIS PROJECT:**  
Please indicate if any of the following permit applications are required and, if required, the status of the application. To determine if other Land Resources Management Permits are required, refer to the Land Resources Management Webpage.

Permit Type	Permit Required	File Number	Permit Application Status
Alteration of Terrain Permit Per RSA 485-A:17	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Individual Sewerage Disposal per RSA 485-A:2	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Subdivision Approval Per RSA 485-A	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED
Shoreland Permit Per RSA 483-B	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	_____	<input type="checkbox"/> APPROVED <input type="checkbox"/> PENDING <input type="checkbox"/> DENIED

**7. NATURAL HERITAGE BUREAU & DESIGNATED RIVERS:**  
See the Instructions & Required Attachments document for instructions to complete a & b below.

a. Natural Heritage Bureau File ID: **NHB 19 - 0214**

b.  This project is within a Designated River corridor. The project is within X mile of: \_\_\_\_\_; and date a copy of the application was sent to the Local River Management Advisory Committee: Month: \_\_\_ Day: \_\_\_ Year: \_\_\_

N/A - This project is not within a Designated River corridor.

**8. APPLICANT INFORMATION (Desired permit holder)**

LAST NAME, FIRST NAME, M.I.: **Ehrenworth, Mary Ann Lohnes**

TRUST / COMPANY NAME: \_\_\_\_\_ MAILING ADDRESS: \_\_\_\_\_

TOWN/CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

EMAIL or FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_

ELECTRONIC COMMUNICATION: By initialing here: \_\_\_\_\_ I hereby authorize NHDES to communicate all matters relative to this application electronically.

**9. PROPERTY OWNER INFORMATION (If different than applicant)**

LAST NAME, FIRST NAME, M.I.: **Same**

TRUST / COMPANY NAME: \_\_\_\_\_ MAILING ADDRESS: \_\_\_\_\_

TOWN/CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_

EMAIL or FAX: \_\_\_\_\_ PHONE: \_\_\_\_\_

ELECTRONIC COMMUNICATION: By initialing here: \_\_\_\_\_ I hereby authorize NHDES to communicate all matters relative to this application electronically.

**10. AUTHORIZED AGENT INFORMATION**

LAST NAME, FIRST NAME, M.I.: **Taylor, Zachary** COMPANY NAME: **Riverside and Pickering Marine Const**

MAILING ADDRESS: **34 Patterson Lane**

TOWN/CITY: **Newington** STATE: **NH** ZIP CODE: **03801**

EMAIL or FAX: **zach@riversideandpickering.com** PHONE: **603-427-2824**

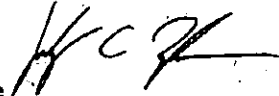
ELECTRONIC COMMUNICATION: By initialing here: **ZT**, I hereby authorize NHDES to communicate all matters relative to this application electronically.

**11. PROPERTY OWNER SIGNATURE**

See the Instructions & Required Attachments document for clarification of the below statements.

By signing the application, I am certifying that:

1. I authorize the applicant and/or agent indicated on this form to act in my behalf in the processing of this application, and to furnish upon request, supplemental information in support of this permit application.
2. I have reviewed and submitted information & attachments outlined in the Instructions and Required Attachment document.
3. All abutters have been identified in accordance with RSA 482-A:3, I and Env-Wt 100-900.
4. I have read and provided the required information outlined in Env-Wt 302.04 for the applicable project type.
5. I have read and understand Env-Wt 302.03 and have chosen the least impacting alternative.
6. Any structure that I am proposing to repair/replace was either previously permitted by the Wetlands Bureau or would be considered grandfathered per Env-Wt 101.47.
7. I have submitted a Request for Project Review (RPR) Form ([www.nh.gov/nhdhr/reviaw](http://www.nh.gov/nhdhr/reviaw)) to the NH State Historic Preservation Officer (SHPO) at the NH Division of Historical Resources to identify the presence of historical/ archeological resources while coordinating with the lead federal agency for National Historic Preservation Act (NHPA) 106 compliance.
8. I authorize NHDES and the municipal conservation commission to inspect the site of the proposed project.
9. I have reviewed the information being submitted and that to the best of my knowledge the information is true and accurate.
10. I understand that the willful submission of falsified or misrepresented information to the NHDES is a criminal act, which may result in legal action.
11. I am aware that the work I am proposing may require additional state, local or federal permits which I am responsible for obtaining.
12. The mailing addresses I have provided are up to date and appropriate for receipt of NHDES correspondence. NHDES will not forward returned


 <input type="checkbox"/> Property Owner Signature	<b>Zachary Taylor (agent) Riverside and Pickering Marine Construction</b>	<b>2 / 20 / 2019</b>  Date
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**MUNICIPAL SIGNATURES**

**12. CONSERVATION COMMISSION SIGNATURE**

The signature below certifies that the municipal conservation commission has reviewed this application, and:

1. Waives its right to intervene per RSA 482-A:11
2. Believes that the application and submitted plans accurately represent the proposed project, and
3. Has no objection to permitting the proposed work.

	Print name legibly	Date
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**DIRECTIONS FOR CONSERVATION COMMISSION**

1. Expedited review ONLY requires that the conservation commission's signature is obtained in the space above.
2. Expedited review requires the Conservation Commission signature be obtained prior to the submittal of the original application to the Town/City Clerk for signature.
3. The Conservation Commission may refuse to sign. If the Conservation Commission does not sign this statement for any reason, the application is not eligible for expedited review and the application will be reviewed in the standard review time frame.

**13. TOWN / CITY CLERK SIGNATURE**

As required by Chapter 482-A:3 (amended 2014), 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.

	BARBARA LANDGRAF Print name legibly	Dickran Town/City	3/5/2019 Date
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**DIRECTIONS FOR TOWN/CITY CLERK**

Per RSA 482-A:3:

1. For applications where "Expedited Review" is checked on page 1, if the Conservation Commission signature is not present, NHDES will accept the permit application, but it will NOT receive the expedited review time.
2. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
3. Return the signed original application form and attachments to the applicant so that the applicant may submit the application form and attachments to NHDES by mail or hand delivery.
4. IMMEDIATELY distribute a copy of the application with one complete set of attachments to each of the following bodies: the municipal Conservation Commission, the local governing body (Board of Selectmen or Town/City Council), and the Planning Board; and
5. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

**DIRECTIONS FOR APPLICANT:**

1. Submit the single, original permit application form bearing the signature of the Town/ City Clerk, additional materials, and the application fee to NHDES by mail or hand delivery.

[irm@des.nh.gov](mailto:irm@des.nh.gov) or (603) 271-2147

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

[www.des.nh.gov](http://www.des.nh.gov)



**14. IMPACT AREA**  
 For each jurisdictional area that will be/has been impacted, provide square feet and, if applicable, linear feet of impact.  
 Permanent: Impacts that will remain after the project is complete.  
 Temporary: Impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.  
 Intermittent Streams: linear footage distance of disturbance is measured along the thread of the channel.  
 Perennial Streams/Rivers: the total linear footage distance is calculated by summing the lengths of disturbance to the channel and each bank.

JURISDICTIONAL AREA	PERMANENT Sq. Ft. / Lin. Ft.	TEMPORARY Sq. Ft. / Lin. Ft.
Forested wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Scrub-shrub wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Emergent wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Wet meadow	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Intermittent stream channel	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Perennial Stream / River channel	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Intermittent stream	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Perennial stream / River	20 / 4 (access) <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Bank - Lake / Pond	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Tidal water	/ <input type="checkbox"/> ATF	/ <input type="checkbox"/> ATF
Salt marsh	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Sand dune	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Prime wetland buffer	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Undeveloped Tidal Buffer Zone (TBZ)	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Previously-developed upland in TBZ	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - Lake / Pond	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Docking - River	90 Incl (2) piles <input type="checkbox"/> ATF	251 (gang/float) <input type="checkbox"/> ATF
Docking - Tidal Water	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
Vernal Pool	<input type="checkbox"/> ATF	<input type="checkbox"/> ATF
<b>TOTAL</b>	<b>110 / 4</b>	<b>251 / 10</b>

**15. APPLICATION FEE:** See the Instructions & Required Attachments document for further instruction.

Minimum Impact Fee: Flat fee of \$ 200

Minor or Major Impact Fee: Calculate using the below table below

Permanent and Temporary (non-docking) \_\_\_\_\_ sq. ft. X \$0.20 = \$ \_\_\_\_\_

Temporary (seasonal) docking structure: **251** sq. ft. X \$1.00 = **\$ 251.00**

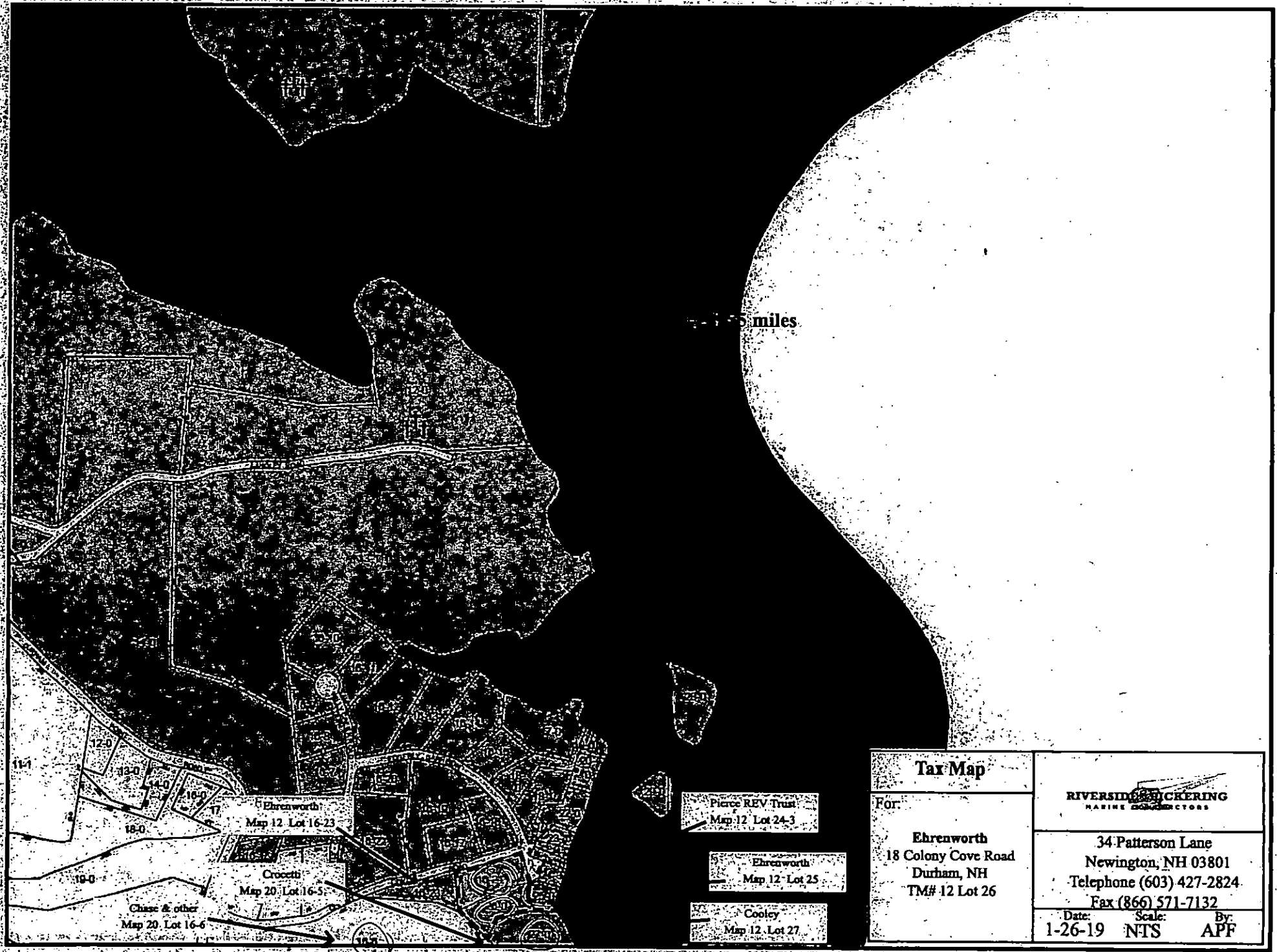
Permanent docking structure: **110** sq. ft. X \$2.00 = **\$ 220.00**

Projects proposing shoreline structures (including docks) add \$200 = **\$ 200.00**

Total = **\$ 671.00**

The Application Fee is the above calculated Total or \$200, whichever is greater = **\$ 671.00**

1.5 miles



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Ehrenworth  
Map 12 Lot 16-23

Crocutti  
Map 20 Lot 16-5

Chase & other  
Map 20 Lot 16-6

Pierce REV Trust  
Map 12 Lot 24-3

Ehrenworth  
Map 12 Lot 25

Cooly  
Map 12 Lot 27

<b>Tax Map</b>		<b>RIVERSIDE ENGINEERING</b> MARINE CONSTRUCTORS
For:	<b>Ehrenworth</b> 18 Colony Cove Road Durham, NH TM# 12 Lot 26	
		34 Patterson Lane Newington, NH 03801 Telephone (603) 427-2824 Fax (866) 571-7132
Date:	Scale:	By:
1-26-19	NTS	APF



PORTSMOUTH QUADRANGLE  
NEW HAMPSHIRE  
TOPOGRAPHIC SERIES

(YORK HARBOR)

(DOVER WEST)

(DOVER EAST)

070° 53' 27.85" W  
843° 05' 09.88" N

070° 52' 45.83" W  
843° 05' 09.88" N



(NEWMARKET)

(KITTERY)

843° 05' 22.32" W  
070° 53' 27.85" W

(EXETER)

843° 05' 22.32" W

(EXETER)

Produced by MyTopo Terrain Navigator  
Topography based on USGS 1:24,000  
Maps

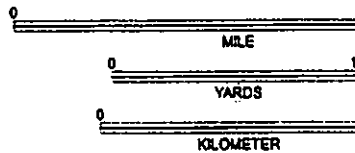
North American 1983 Datum (NAD83)  
Transverse Mercator Projection

To place on the predicted North American  
1927 move the projection lines 10M N and  
41M E

Declination



SCALE 1:24000



CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM

Site Map

For:

Ehrenworth  
18 Colony Cove Road  
Durham, NH  
TM# 12 Lot 26

RIVERSIDE PICKERING  
MARINE CONTRACTORS

34 Patterson Lane  
Newington, NH 03801  
Telephone (603) 427-2824  
Fax (866) 571-7132

Date: 1-26-19 Scale: NTS By: APF



NEW HAMPSHIRE NATURAL HERITAGE BUREAU  
NHB DATACHECK RESULTS LETTER

To: Allen Folsom, Advantage NH Lakes  
P.O. Box 862

Wolfeboro Falls, NH 03896

From: NH Natural Heritage Bureau

Date: 1/23/2019 (valid for one year from this date)

Re: Review by NH Natural Heritage Bureau of request submitted 1/15/2019

NHB File ID: NHB19-0214

Applicant: Allen Folsom

Location: Durham  
Tax Maps: 12-26

Project

Description: Provide small fixed pier gangway and float on +/- 75' of frontage for water access

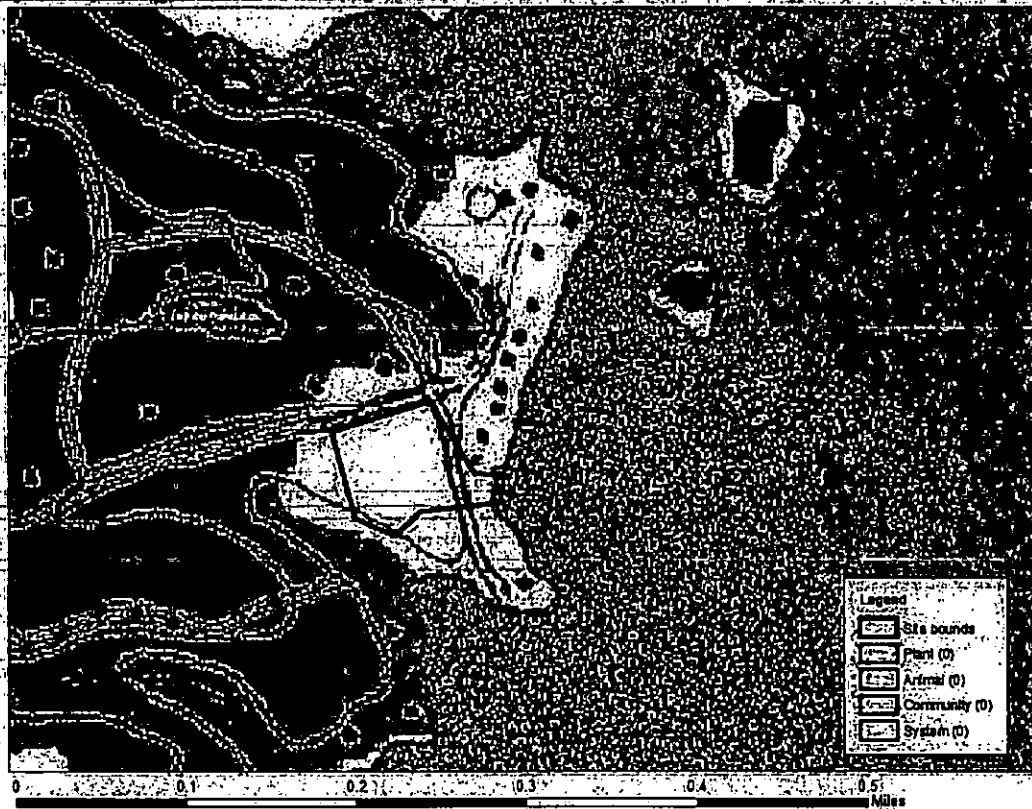
The NH Natural Heritage database has been checked by staff of the NH Natural Heritage Bureau and/or the NH Nongame and Endangered Species Program for records of rare species and exemplary natural communities near the area mapped below. The species considered include those listed as Threatened or Endangered 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 1/15/2019, and cannot be used for any other project.



MAP OF PROJECT BOUNDARIES FOR: NHB19-0214

NHB19-0214



# RIVERSIDE & PICKERING

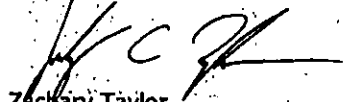
## MARINE CONTRACTORS

### ABUTTER NOTIFICATION

Dear Abutter,

As required by the NH Dept. of Environmental Services, you are being notified about proposed work at property, which abuts yours. Should you have any questions or concerns, please do not hesitate to contact this office. We will be glad to discuss any aspect of the proposed project. A copy of the full application sent to the NH Dept. of Environmental Services, Wetlands Bureau will be available for your inspection at your City/Town Clerk's office.

Thank you,



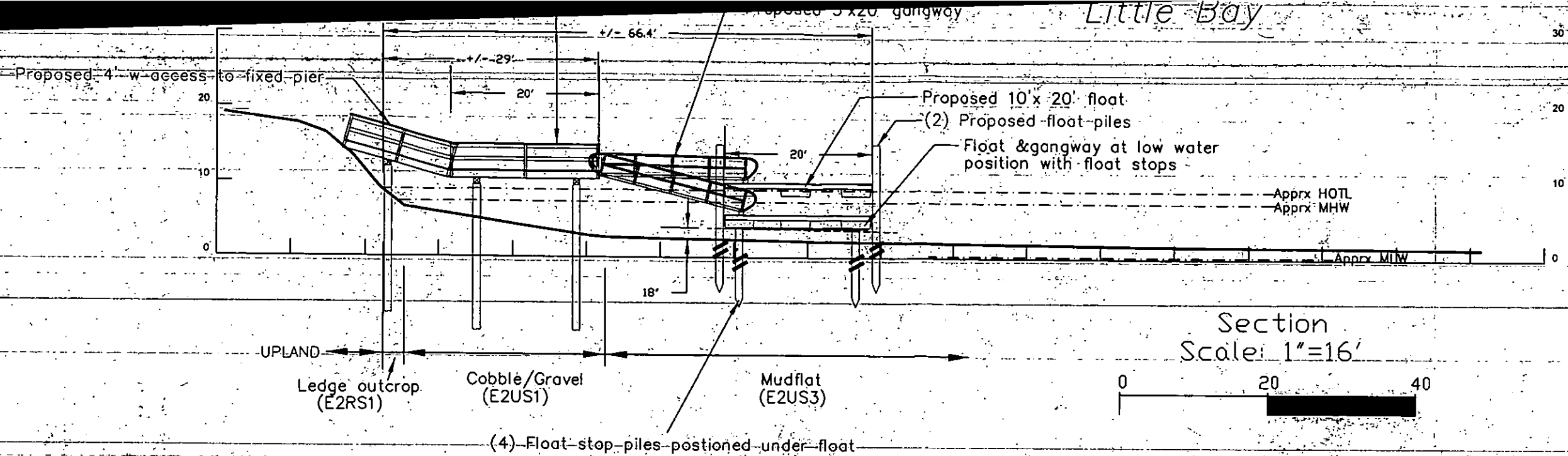
Zachary Taylor  
Riverside & Pickering Marine Construction

**Name of property owner (s):** Mary Ann Lohnes Ehrenworth

**Location:** 18 Colony Cove Road, Durham, NH Map 12 Lot 26

**Brief description of work:** Provide a fixed pier, associated float and gangway for recreational use/access to Little Bay

Abutter	Certified Mail #	Abutter	Certified Mail #
TM# 12 Lot 16-23 Kathleen & Mary Ann Lohnes Ehrenworth	7018 2290 0001 6361 4185	TM# 12 Lot 16-4 Russell & Susan Prescott	7018 2290 0001 6361 4222
TM# 12 Lot 24-2 Great American Properties LLC	7018 2290 0001 6361 4192	TM# 12-24-3 Arthur & Sharon Pierce REV Trust	7018 2290 0001 6361 4239
TM# 12 Lot 24-1 Jennifer Carlson	7018 2290 0001 6361 4208	TM# 20-16-5 Croceiti Family REV Trust	7018 2290 0001 6361 4246
TM# 12 Lot 24-3 Other land of Mary Ann Lohnes Ehrenworth	n/a	TM# 20-16-6 Cahse/Prescott/Kleinmann/Croceiti/Ryan C/o Susan Chase	7018 2290 0001 6361 4253
TM# 12 Lot 27 William Cooley	7018 2290 0001 6361 4215		



Section Scale: 1"=16'

**Sequence of Construction:**

1. Mobilization of a crane barge, push boat work sidiff, materials and prefabricated components such as the gangway and float to the site via approved access. Most of the work will be from the crane barge.
2. Mobilization of equipment trucks to the site. This is primarily for the daily transport of the crew during construction and the transportation of hand tools.
3. The barge will be positioned alongside the proposed location of the new dock and waterward of any emergent vegetation to minimize impacts.
4. Installation of the sub structure will be performed from a crane barge or sidiff to reduce the amount of foot traffic in the intertidal area.
5. All work will be performed at low tide to minimize sedimentation.
6. Piling will be mechanically driven by a crane eliminating any excavation for installation of the pilings. The piling set closest to shore may be pinned and anchored to ledge. Pilings are driven to practical refusal.
7. Staging is built between pilings to allow for transit along structure to minimize foot traffic to intertidal area.
8. Pilings are cut and beams caps are installed and the superstructure of the pier is then built. Materials are lifted from the barge and set into position by the crane.
9. Once the pier is complete the gangway and float are brought into position and installed.
10. Once the positioning has been determined for the float the float pilings and float stops are installed.

**Discharges, Avoidance, Minimization and Mitigation:**

Discharges of dredged or fill material into waters of the U.S. and any secondary impacts shall be avoided and minimized to the maximum extent practicable. Permittees may only fill those jurisdictional wetlands and waterways that the Corp and NHDES authorizes to be filled and impact those areas that the Corps and NHDES authorizes as secondary impacts. If not specifically authorized by USACOE and NHDES, any unauthorized fill or secondary impact to wetlands may be considered as a violation of the CSPA.

Unless specifically authorized USACOE and NHDES, no work shall drain a water of the U.S. by producing a conduit for water on or below the surface.

**Heavy Equipment in Wetlands:**

Heavy equipment other than fixed equipment (drill rigs, fixed cranes, etc.) working in wetlands shall not be stored, maintained or repaired in wetlands, unless it is less environmentally damaging otherwise, and as much as possible shall not be operated within the intertidal zone. Where construction requires heavy equipment operation in wetlands, the equipment shall either have low ground pressure (<3 PSI), or shall not be located directly on wetland soils and vegetation. It shall be placed on swap mats that are adequate to support the equipment in such a way as to minimize disturbance of the wetland soil and vegetation. Swap mats are to be placed in the wetland from the upland or from equipment positioned on swap mats when working within a wetland. Dragging swap mats into position is prohibited. Other support structures that are less impacting and are capable of safely supporting equipment may be used with written Corps and NHDES authorization. Similarly, not using mats during frozen, dry or other conditions may be allowed with written Corps and NHDES authorization. An adequate supply of spill containment equipment shall be maintained on site. Corduroy roads and swap/construction mats are considered as fill whether they're installed temporarily or permanently.

**Time of Year Work Window and Noise Restrictions:**

1. Piles installed in the dry during low water or in-water between Nov. 8th - Apr. 9th DR.
2. Must be drilled and pinned to ledge. DR.
3. Vibratory hammers used to install any size and quantity of wood, concrete, or steel piles. DR.
4. Impact hammer limited to one hammer and 50 piles installed/day with the following: Wood piles of any size, concrete piles 18-inches diameter, or steel piles 12-inches diameter if the hammer is 3000 lbs. and a wood cushion is used between the hammer and the steel pile.

**For 2" and 4" above:**

- I. In-water noise levels shall not >187dB SEL RE [uP] or 206dB Peak RE [uP] at distance >10m from the pile being installed. AND
- II. In-water noise levels >155dB Peak RE [uP] shall not exceed 12 consecutive hours on any given day and a 12 hour recovery period. (i.e., in-water noise below 155dB Peak RE [uP]) must be provided between work days. Work

**Site Restoration:**

- I. Upon completion of construction, all disturbed wetland areas shall be properly stabilized. Any seed mix shall contain only plant species native to New England.
- II. The introduction or spread of invasive plant species in disturbed areas is prohibited.
- III. In areas of authorized temporary disturbance, if trees are cut, they shall be cut at ground level and not pruned in order to prevent disruption to the wetland soil structure and allow stump sprouts to revegetate the work areas, unless otherwise authorized.
- IV. Wetlands areas where permanent disturbance is not authorized shall be restored to their original condition and elevation, which under no circumstances shall be higher than the pre-construction elevation. Original condition means careful protection and/or removal of existing soil and vegetation, and replacement back to the original location such that that the original soil layering and vegetation schemes are approximately the same, unless otherwise authorized.

**Sedimentation and Erosion Control:**

Adequate sedimentation and erosion control management measures, practices and devices, such as passed construction, vegetated filter strips, geotextile silt fences, stormwater detention and infiltration systems, sediment detention basins, or other devices shall be installed and properly maintained to reduce erosion and retain sediment on-site during and after construction. They shall be capable of preventing erosion, of collecting sediment, suspended and floating materials, and/or filtering fine sediment. The disturbed areas shall be stabilized, and these devices shall be removed upon completion of the work. The sediment collected by these devices shall be removed and placed at an upland location, in a manner that will prevent its later erosion into a waterway or wetland. All exposed soil and other fills shall be permanently stabilized at the earliest practicable date.

**Spawning Areas:**

Removal of deadwood or fill material and/or suspended sediment...

**Storage of Seasonal Structures:**

Coastal structures such as pier sections, floats, gangways, etc. that are removed from the waterway for a portion of the year (often referred to as seasonal structures) shall be stored in an upland location, located above Highest Observable Tide Line (HOTL) and not in tidal wetlands. These seasonal structures may be stored on the fixed, pile-supported portion of the structure that is seaward of HOTL. This is intended to prevent structures from being stored on the marsh substrate and the substrate seaward of HOTL.

**Environmental Functions and Values:**

The permittee shall make every reasonable effort to: 1) Carry out the construction or the operation of the work authorized by USACOE and NHDES herein in a manner that minimizes adverse impacts on fish, wildlife and natural environmental values, and 2) Prohibit the establishment or spread of plant species identified as non-native invasive species by any federal or state agency. See the section on Invasive species at <http://www.nh.us/ace/nh/regulatory/> for control methods.

**Inspections:**

The permittee shall allow the Corps and NHDES to make periodic inspections at any time deemed necessary in order to ensure that the work is being or has been performed in accordance with the terms and conditions of this permit. The Corps and NHDES may also require post-construction engineering drawings for completed work, and post-dredging survey drawings for any dredging work.

Date: 2-19-19  
 Drawn/By: APF  
 Checked By: ZT

Mary Ann Lohnes Ehrenworth  
 PRF

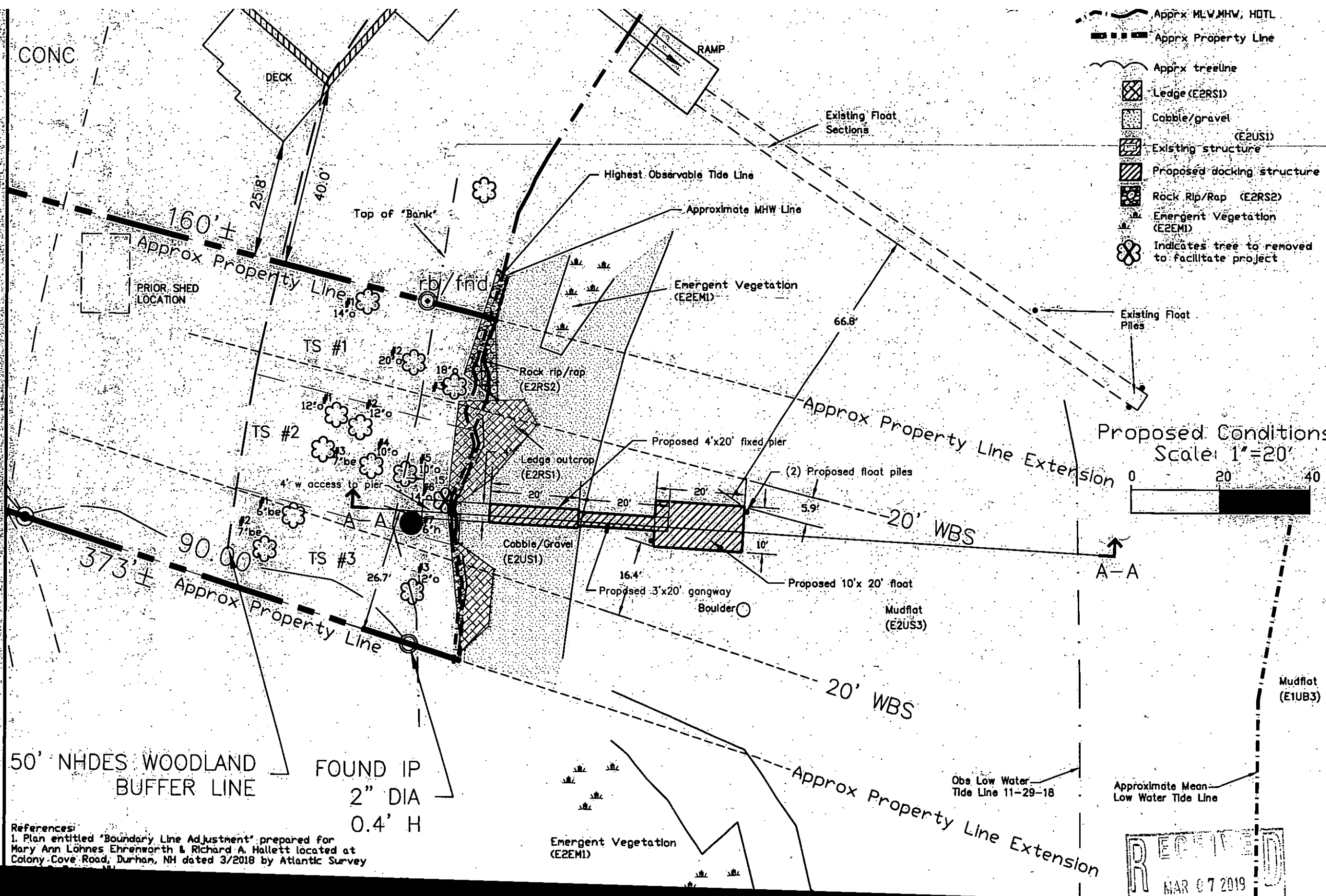
Approved: \_\_\_\_\_ Date: \_\_\_\_\_  
 City: Durham, NH  
 Address: 18 Colony Cove Rd  
 Map & Lot #: Map 12 Lot 26  
 Drawing Scale: Noted

by DES 06/06/19



REVISIONS	
Description	Approved

34 Patterson Lane, Newington, NH  
 Office: (603) 427-2824 Fax: (866) 571-7132



References:  
 1. Plan entitled "Boundary Line Adjustment" prepared for Mary Ann Löhnes Ehrenworth & Richard A. Hallett located at Colony Cove Road, Durham, NH dated 3/2018 by Atlantic Survey

**Mary Ann Löhnes Ehrenworth**  
 PRF

Date: 2-19-19  
 Drawn By: [Signature]  
 Checked By: Z  
 Approved: [Signature]  
 Address: 18 Colony Cove Rd, Durham, NH  
 City: Durham, NH  
 State: NH  
 Zip: 03824

**RIVERSIDE DICKERING**  
 MARINE CONTRACTORS

34 Patterson Lane, Newington, NH  
 Office: (603) 427-2824, Fax: (603) 571-7332

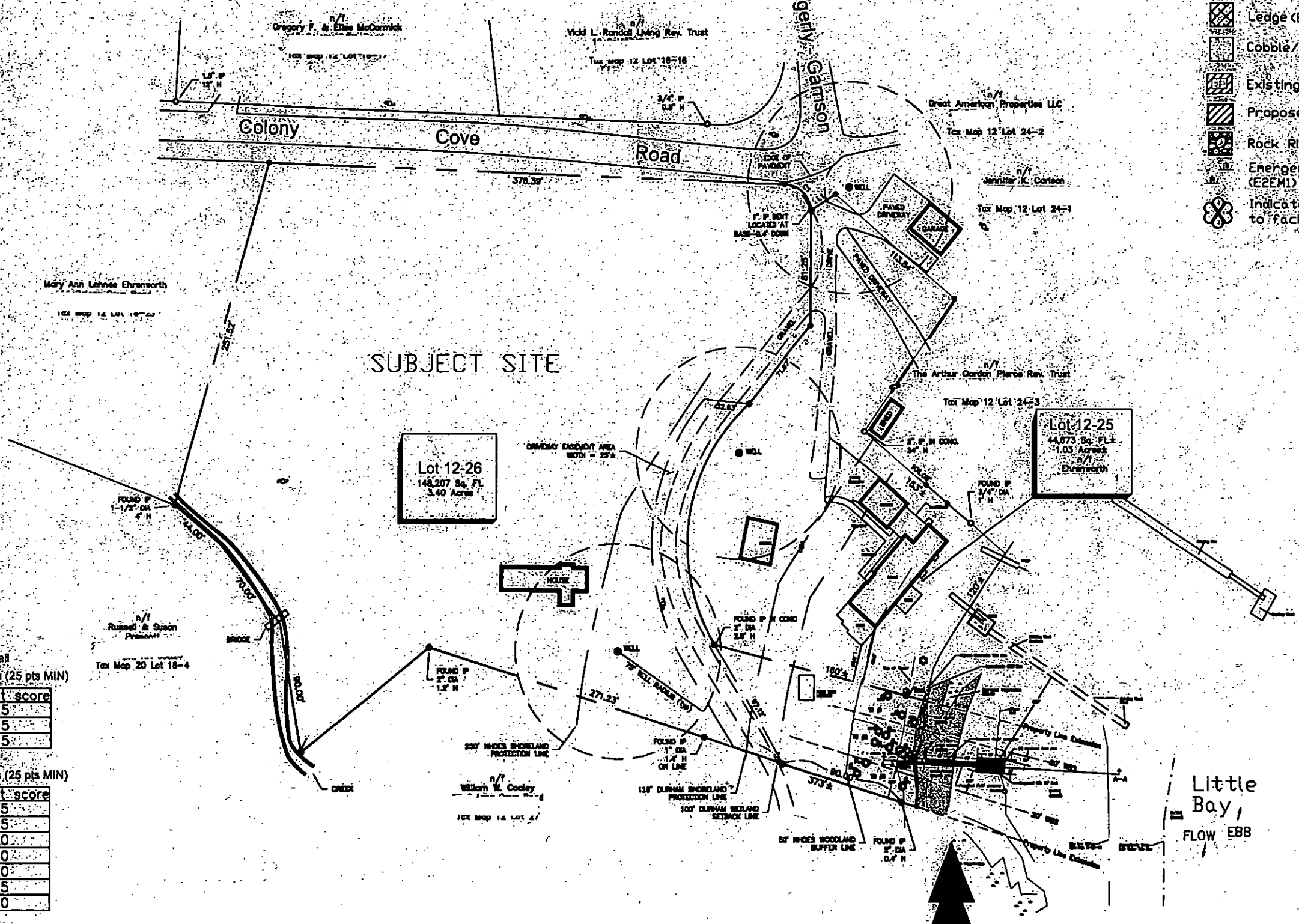
REVISIONS	Description	Approved

Map # Lot #  
 Map 12 Lot 26  
 Drawing Scale: Noted

File #:

**RECEIVED**  
 MAR 07 2019





- Apprx MLW, MHW, HDTL
- Apprx Property Line
- Apprx treeline
- Ledge (E2RS1)
- Cobble/gravel
- Existing structure (E2US1)
- Proposed docking structure
- Rock Rip/Rap (E2RS2)
- Emergent Vegetation (E2EM1)
- Indicates tree to removed to facilitate project

See Sheet 2 of 4 for more detail

Tree Segment #1 = 45 Points (25 pts MIN)

#	DBH/Species	Point score
1	14" Oak	15
2	20" Oak	15
3	18" Oak	15

Tree Segment #2 = 85 Points (25 pts MIN)

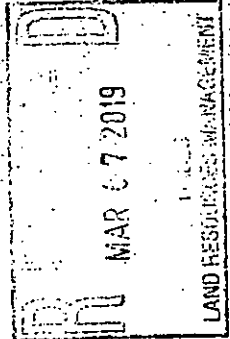
#	DBH/Species	Point score
1	12" Oak	15
2	12" Oak	15
3	7" Beech	10
4	10" Oak	10
5	10" Oak	10
6	14" Oak	15
7	6" Hemlock	10

Tree Segment #3 = 35 Points (25 pts MIN)

#	DBH/Species	Point score
1	6" Beech	10
2	7" Beech	10

See Shts 2-4 for more detail

Overview Plan  
Not to Scale



Date: 2-19-19
Drawn By: A
Checked By: ZT

Mary Ann Lohnes Ehrenworth
PRF

Address: 18 Colony Cove Rd, Durham, NH
City: Durham, NH

34 Patterson Lane, Newington, NH
Map & Lot #

DRPC: (603) 427-8822 / Fax: (603) 571-7132
Map 12-Int: 28

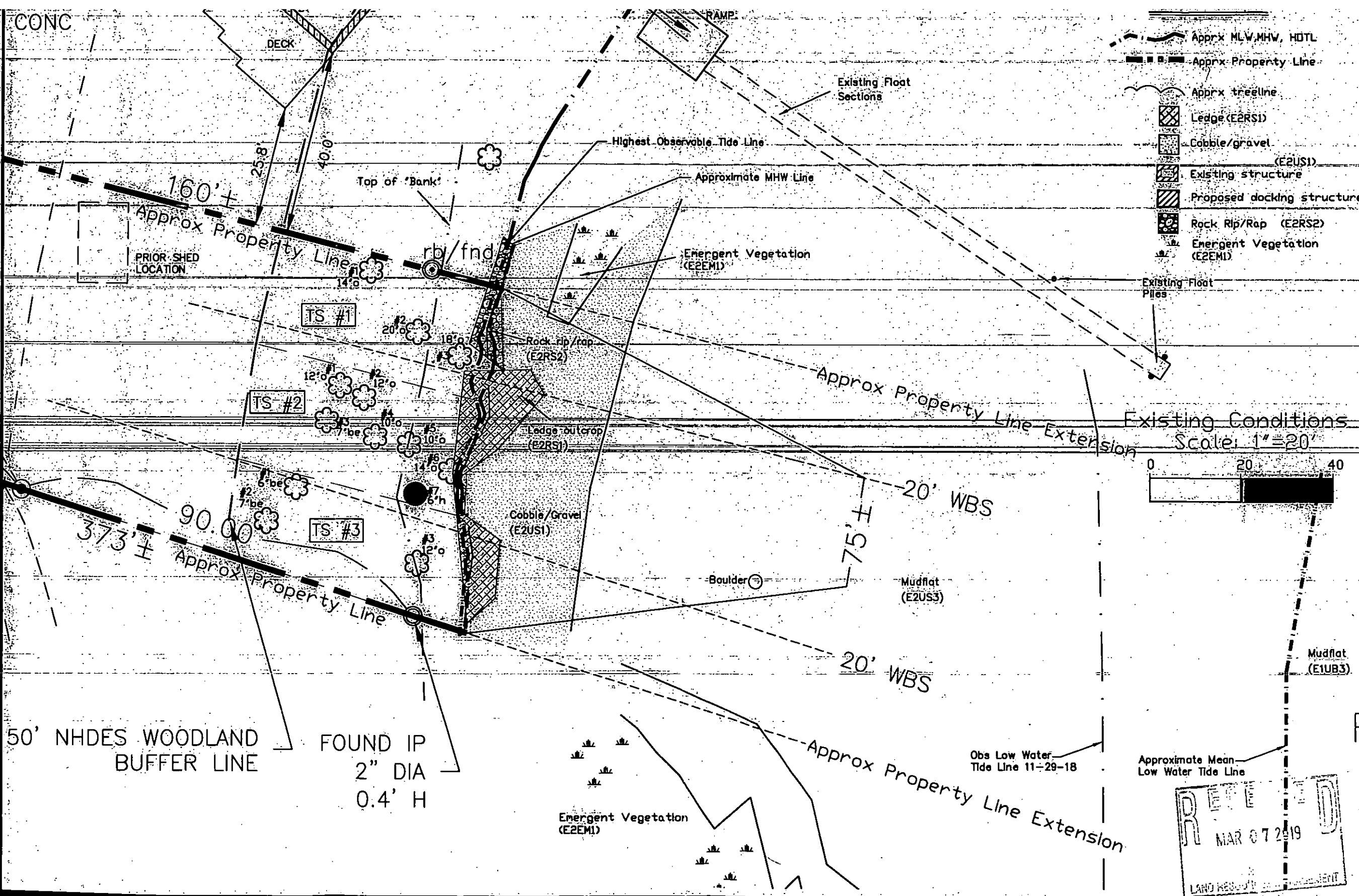
REVISIONS
Approved

Date	Description	Approved

File #:

APPROVED PLAN

CONC



Existing Conditions Scale: 1"=20'



RECEIVED  
MAR 07 2019  
LAND RESOURCE DEPARTMENT

Date:		Drawn By:		Checked:	
Mary Ann Lohnes Ehrenworth PRF					
Address:		City:		Approved:	
18 Colony Cove Rd		Durham NH			
Map #:		Scale:		Noted:	
Map 123 Lot 128		Map 123 Lot 128			
34 Patterson Lane, Newington, NH Office: (603) 427-2884 Fax: (603) 571-7132					
REVISIONS		Approved			
Date	Description				
File #:					
2 of 4					