

**REGULAR MEETING
CONSERVATION COMMISSION
1 JUNKINS AVENUE
PORTSMOUTH, NEW HAMPSHIRE
EILEEN DONDERO FOLEY COUNCIL CAHMBERS**

4:00 P.M.

November 13, 2024

AGENDA

I. APPROVAL OF MINUTES

1. September 11, 2024 and October 9, 2024

II. STATE WETLAND BUREAU APPLICATIONS (OLD BUSINESS)

1. Dredge and Fill - Major Impact
1 Peirce Island Road
Pease Development Authority c/o Portsmouth Fish Co Op
Assessor Map 208 Lot 1A
2. Dredge and Fill - Minor Impact
333 Borthwick Avenue
HCA Health Services of NH
Assessor Map 240 Lot 2-1

III. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill – Minor Impact
Whidden Street
City of Portsmouth

IV. OTHER BUSINESS

V. ADJOURNMENT

**Members of the public also have the option to join this meeting over Zoom, a unique meeting ID and password will be provided once you register. To register, click on the link below or copy and paste this into your web browser:*

https://us06web.zoom.us/webinar/register/WN_Xa4dhVDZTQmUmRUu21Ec7g

**REGULAR MEETING
CONSERVATION COMMISSION
1 JUNKINS AVENUE
PORTSMOUTH, NEW HAMPSHIRE
SCHOOL DEPARTMENT CONFERENCE ROOM**

4:00 P.M.

September 11, 2024

MINUTES

MEMBERS PRESENT: Chair Samantha Collins; Vice Chair Barbara McMillan; Members: Alice Carey, Jessica Blasko, Adam Fitzpatrick, Stewart Sheppard, Lynn Vaccaro, Alternate: Brian Gibb, Talia Sperduto

MEMBERS ABSENT:

ALSO PRESENT: Kate Homet; Associate Environmental Planner, Peter Britz; Planning and Sustainability Director

Chair Collins opened the meeting and asked for a moment of silence to honor and remember the lives lost on 9/11.

I. APPROVAL OF MINUTES

1. August 14, 2024

[0:48] Chair Collins announced that she was not at the August meeting and would not be voting on the minutes. A. Carey noted that her attendance was incorrect on the minutes. S. Sheppard made a motion to approve the minutes with that edit. Vice Chair McMillan seconded the motion. The motion passed unanimously.

II. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (OLD BUSINESS)

1. 100 Durgin Lane
Oak Street Real Estate Capital, Owner
Assessor Map 239 Lot 18

[2:19] Andrew Hayes introduced this project along with Keith Case (Utile Architects), John Bosen, Nick Aceto (Aceto Landscape Architects), Neil Hansen and Patrick Crimmins (Tighe and Bond). The project team proceeded to present the proposal and all of the updates that had occurred since the Commission had first seen the application.

[20:22] Chair Collins asked why some snow storage areas were displayed where proposed trees would be placed. Mr. Hansen responded that along that edge of the property they were planning to have snow storage interspersed between the trees. A discussion continued about snow storage on site.

[22:52] Chair Collins asked if there were any additional areas proposed for having educational signage. Mr. Aceto stated that he believed the rain garden overlook was the only area proposed for signage at this time. Chair Collins suggested they include one or two educational signs discussing the wetland buffer within the passive recreation area. Mr. Aceto said sure and that he thought that was a good idea.

[23:32] Vice Chair McMillan noted that the native grass areas were cited as being mowed as required to control invasive species and she stated that was a pretty broad instruction and did not want to see it mowed too frequently. Mr. Aceto said that they could specify in the maintenance plan the frequency of mowing. The species perform best when mowed back once or twice per season, but they could be left to grow wild. They will clarify mowing frequency within the plan.

[24:56] B. Gibb thanked the applicants for all the work they put into this application and in responding to the Commission's requests. He asked if there were any consequences with moving the road around and shifting the rain garden. Mr. Hayes responded that the shift did not have any large consequences and they were able to maintain the low impact design rain garden without pushing it further into the buffer.

[28:55] Vice Chair McMillan asked about the observation platform and the proposed dimensions. Additionally, she was looking for dimensions for the tree growing areas by the parking area. Mr. Aceto discussed the various dimensions and the selection of trees for sizing. Vice Chair McMillan then asked about the straight curbing and wondered whether slanted curbing could be used in some areas. Mr. Crimmins addressed some of the curbing areas and noted that they could request this in some areas from DPW and TAC.

[33:25] Chair Collins asked about the outlet of the rain garden and whether it had changed. Mr. Crimmins responded that it had not been changed since the previous submission.

[34:02] Vice Chair McMillan asked why the applicants had included a chloride management plan. Mr. Hansen responded that it was a requirement of the NHDES alteration of terrain permit.

[35:04] J. Blasko made a motion to recommend approval of the application to the Planning Board with the following situations:

- Applicant clarify the mowing plan for the passive areas within the buffer, which should be not be mowed more than 1 to 2 times per year.
- Applicant should have a conversation with the Department of Public Works to determine the curbing to be used within the roundabout area and use broken and/or slanted curbing for wildlife passage, if appropriate.

- An educational sign should be installed in the passive recreation area that provides content on wetlands, wetland buffers and the sensitivity of the buffers.
- In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall install permanent wetland boundary markers. We suggest that these markers are placed along the 25' vegetative buffer at intervals of every 50 feet. These must be installed prior to the start of any construction. These can be purchased through the City of Portsmouth Planning and Sustainability Department. Please mark on final plan set where the markers are to be placed.
- One year after landscaping is complete, if at least an 80% success rate has not been reached, applicants will replant and report back to the Planning & Sustainability Department one year after planting is complete and each subsequent year until an 80% planting success rate has been achieved.

Vice Chair McMillan seconded the motion. The motion passed unanimously.

III. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (NEW BUSINESS)

1. 913 Sagamore Avenue
Hogswave LLC, Owner
Assessor Map 223 Lot 27

[37:48] Chair Collins announced the wetland conditional use permit application for this site and announced that there was an NHDES permit application as well, which the applicant could add on any additional information pertaining to the state application at the end of their city application presentation.

[38:11] John and Heidi Ricci, the homeowners, came to present this application along with Steve Riker and John Chagnon with Haley Ward. He noted that the Commission had previously seen this application with a work session back in January and Mr. Ricci also described the existing site. Mr. Riker described the details proposed with this application.

[47:13] T. Sperduto asked if the garage would be removed. Mr. Riker responded that it is to remain. He went on to further describe the proposal and go through the staff comments with responses.

[56:15] T. Sperduto asked what the 1,800 s.f. number was in reference to. Mr. Riker responded that the number was in reference to the proposed home and it increases when the proposed garage (outside the 100' wetland buffer) is added to the calculations. A discussion continued about the proposed impact numbers. Mr. Riker went on to describe existing greywater impacts that would be resolved, the introduction of municipal sewer lines, and the abandonment of the existing septic system on site.

[59:40] A. Carey asked what the reasoning was for the size and location of the proposed home, especially in proximity to a large tree that is to be removed to accommodate. Mr. Ricci

responded that moving the proposed structure to the north could compromise a 42" Oak tree and ledge would have to be removed. A discussion continued about the trees to remain and the trees to be removed, as well as potential for shifting the building location to avoid more of the wetland buffer.

[1:03:58] Chair Collins asked for clarification on the 900 s.f. existing driveway to be removed and what it would be replaced with. Mr. Riker responded that the plan was to remove the existing asphalt driveway and loam and seed the area with some proposed plantings.

He noted that the area may need some erosion control blanketing to establish the vegetation due to the steep slope. A discussion continued about the proposal for this area.

[1:06:25] Chair Collins expressed concerns for the removal of the gravel that leads to the existing garage. She believes that the garage gives that area the hard substrate that it needs to accommodate vehicular traffic and without it, there would be rutting and erosion. A discussion continued about potentially keeping the gravel or a similar substance there instead of loaming and seeding the area.

[1:13:02] Vice Chair McMillan asked if there would be any native grasses around the plantings and for any seed mixes, there would need to be a maintenance plan to mow once or twice a year. Mr. Riker responded that there would be a conservation seed mix and it could be mowed. Vice Chair McMillan asked about the mulching referenced in the plan set and where it would be placed. Mr. Riker said that the soils would have to be amended in some areas for the plantings in the buffer area. Vice Chair McMillan asked them not to use mulch and instead just amend the soil as the mulch would smother it. Lastly, Vice Chair McMillan asked about the final wall height which Mr. Riker said would top out at 4.1' in some points and would likely not change from the existing height as there was no grading proposed for that area.

[1:16:12] J. Blasko asked if they had plans for salt-tolerant plant species for the vegetative buffer. Mr. Riker responded that yes, the creeping juniper, the lowbush blueberry and the northern bayberry are all salt-tolerant.

[1:17:18] J. Blasko made a motion to recommend approval of this application. T. Spurduto seconded the motion. Chair Collins noted that there were a lot of stipulations within the staff memo, many of which were addressed verbally, and they had a lot of discussion about plantings and the buffer expansion. She noted that she would like to see more plantings in the area where the driveway is to be removed along with the installation of coir logs for establishment. She noted that there were many issues that made her want to postpone. A. Fitzpatrick noted that there were a substantial number of relatively small issues but the number of them made it seem like it would be better to review a more complete plan set at another time. J. Blasko and T. Spurduto agreed and addressed some issues of their own that they would like to see clarified. A discussion continued about what the Commission would like to see in the next application.

[1:25:38] J. Blasko rescinded her motion and made a new motion to recommend postponement of this application until the October meeting so that the applicant could address the raised issues. B. Gibb seconded the motion. A discussion continued about the project and what commissioners would like to see addressed.

[1:39:24] The motion passed unanimously.

VI. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill - Minor Impact
913 Sagamore Avenue
Hogswave LLC, Owner
Assessor Map 223 Lot 27

This was a draft permit and has not yet been submitted to NHDES, therefore, no motion was made.

V. OTHER BUSINESS

1. Conservation Easement Update

[1:40:35] Ms. Homet gave an update on the conservation easement funding for the Cavaretta Property.

J. Blasko noted that it could be helpful to apply parts of the climate action plan to the Commission's review of applications.

Vice Chair McMillan told everyone that she had a stack of publications relevant to their work from Allison Tanner's library that people could take from if anyone was interested.

VI. ADJOURNMENT

The meeting adjourned at 5:52 p.m.

**REGULAR MEETING
CONSERVATION COMMISSION
1 JUNKINS AVENUE
PORTSMOUTH, NEW HAMPSHIRE
EILEEN DONDERO FOLEY COUNCIL CAHMBERS**

4:00 P.M.

October 9, 2024

MINUTES

MEMBERS PRESENT: Vice Chair Barbara McMillan; Members: Alice Carey, Jessica Blasko, Stewart Sheppard, Lynn Vaccaro, Alternate: Brian Gibb,

MEMBERS ABSENT: Chair Samantha Collins, Alternate Talia Sperduto

ALSO PRESENT: Kate Homet; Environmental Planner

[7:19] Vice Chair McMillan announced that she would be acting chair in the absence of Chair Collins.

I. APPROVAL OF MINUTES

1. September 11, 2024

Ms. Homet announced that these would be available at the next meeting to vote on.

[7:55] Acting Chair McMillan announced that Brian Gibb was now a regular voting member of the Commission and no longer an alternate.

II. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (OLD BUSINESS)

1. 913 Sagamore Avenue
Hogswave LLC, Owner
Assessor Map 223 Lot 27

[8:25] John Chagnon of Ambit Engineering came to present this application and handed out updated application materials to the Commissioners. He went over how the application previously came before the Commission in September and what had been updated since. He then went on to respond to all the comments made within the staff memo and the previous comments by Commissioners.

[18:22] Acting Chair McMillan asked about the newest plan sets that had been handed out and what had been changed. Mr. Chagnon went over the changes shown on the newest plans

compared to what was in the October submission materials.

[19:08] S. Sheppard asked about the black locust proposed to be planted and whether it was considered invasive. Mr. Chagnon responded that not all black locusts are invasive but the tree that Mr. Sheppard referenced is an existing tree.

[20:38] J. Blasko asked for clarification on what was proposed for the existing gravel drive-way area in front of the proposed home close to the creek. Mr. Chagnon responded that the applicant planned to keep that area as gravel to ensure access to the garage. The concrete apron in front of the garage will be removed and replaced with gravel as well. Acting Chair McMillan asked for square footage of that new impact and whether the edge of the gravel was drawn on the plans. Mr. Chagnon responded that the edge of the gravel was depicted on Sheet C-102.

[24:02] Acting Chair McMillan asked about the original existing retaining wall height and Mr. Chagnon responded that it had been added to the existing conditions plan and went on to describe the different heights. Acting Chair McMillan then asked for clarification on when the applicant would be submitting a state wetland permit application. Mr. Chagnon responded that the goal was to get through the WCUP process first and then evaluate. They also needed Zoning Board of Adjustment approval for this project so they may wait until after receiving that to proceed with a state permit.

[27:04] A. Carey asked about the three existing trees to be removed and their size. She would like the owner to consider choosing replacement trees that will grow to a similar size as the ones to be removed. Mr. Chagnon responded that they could change the replacement trees to 2” caliper.

Ms. Homet discussed the staff memo requests.

[29:47] L. Vaccaro noted that there are regulations around fertilizer and pesticide use within the buffer zone and the applicants should be careful with the new sod area and ensuring that erosion does not occur, and proper establishment and maintenance occurs.

[31:26] J. Blasko made a motion to recommend approval of the application to the Planning Board with the following stipulations:

1. The proposed Northern Red Oaks should be at least of 2” caliper sizing.
2. The Conservation Commission recommends that the applicant follow NOFA standards on the site.
3. Wetland boundary markers shall be permanently installed prior to the start of construction in locations noted on plan set.

S. Sheppard seconded the motion.

A discussion continued about the proposed impact numbers for the gravel and their accuracy, as well as the importance of the revegetation portion of this project. The motion passed unanimously.

III. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (NEW BUSINESS)

1. 39 Dearborn Street
Shawn & Michiyo Bardong, Owners
Assessor Map 140 Lot 3

[38:53] Jeff Kiesel of Dockham Builders, Luke Taylor and Jason Aube of TF Moran came to present this application. Mr. Kiesel proceeded to go through the history of this project and the previous City approvals they had received. In addition, he also went over the proposed project and the current and proposed site conditions. Mr. Taylor addressed the criteria for approval and how this project applied to the criteria.

[48:10] Acting Chair McMillan clarified that there were updated documents that had not been submitted to Commissioners that the applicants were presenting on.

[48:58] J. Blasko asked for clarification on the proposed structures, specifically the mudroom and landing. Mr. Kiesel explained the proposed expanded landing that will be turned into a mudroom.

[51:03] L. Vaccaro asked for more information on the proposed rain gardens. Mr. Taylor explained the proposed elevations for the rain gardens and how it will be structured. The rain garden information was not provided in the Commissioner's application packet. A discussion continued about the existing and proposed stormwater on site. A. Carey asked if there was a plan that describes the proposed stormwater. Mr. Taylor said there was a note on one of the newest plans and noted that the Commissioners were having trouble reading the current plans due to graphic issues with the lines and colors. Additionally, it is hard to see the outline of the existing structures.

[57:35] A. Carey asked for the applicants to describe where a no-mow line would be compared to the water's edge. Mr. Taylor noted that the no-mow line would just be set back from the owner's property line by a few feet. The plantings at the water's edge will remain the same and the newly buffered area will be let to re-naturalize with some additional salt-tolerant plants added. A discussion continued about the existing mowing practices and the proposed line.

[1:02:13] Acting Chair McMillan clarified that she believed the Commission would be treating the application before them as a work session at this point due to the lack of the new plans being submitted on time. Mr. Taylor noted that they had already applied to the state for approval and were looking for planting and stormwater management recommendations from the Commission. Mr. Kiesel stated that this was not a work session in their opinion, but rather a full permit application and they had amended the plans since the site walk to be amenable to the Commission.

[1:03:42] Acting Chair McMillan asked about the proposed rain gardens and if they had calculations for the amount of runoff that would be directed into them and whether it could handle the flow. Additionally, she was curious if the applicants had done a perc test of the

proposed areas and figured out infiltration rates, and where the outlets were located for the overflow of the rain gardens. Mr. Taylor responded that the proposed rain gardens would help infiltrate the existing sheet flow before it reached the wetland resource, with the French drain acting as a filter as well. Mr. Aube noted that no calculations had been made for the stormwater capture but the rain gardens were proposed to help reduce the sheet flow. The rain gardens do not have outlets and they believe the vegetation would help with excess overflow.

[1:06:45] L. Vaccaro asked if there was a wetland delineation done as part of the project. Mr. Taylor responded that there was a delineation with a note on the plan set indicating the delineation. It was not TF Moran that conducted it, but rather it was conducted by Patrick Seekamp during a previous survey. Ms. Vaccaro expressed concern for the accuracy of the tidal wetland boundary due to the presence of salt tolerant wetland species in the areas further inland that are currently being mowed. She also mentioned her concern for the rain garden being proposed right next to the salt marsh. Mr. Kiesel noted that the delineation had been done in the last six months. Acting Chair McMillan noted that in the City's regulations, you are not allowed to place a best management practice, such as a rain garden, within the 25' vegetated buffer. Ms. Blasko then asked for clarification to be made on plans where the delineated 25' buffer line existed.

[1:10:07] Ms. Homet asked the applicants whether the delineation was done within the last six months. Mr. Kiesel responded yes. Ms. Homet asked if there was a stamped wetland delineation available, which there was not. She requested a date of delineation on a stamped wetland delineation plan.

[1:11:25] Ms. Homet brought up what appeared to be an active violation of a pile of fill being stored within the buffer on this site. A discussion continued about the sewer line install, the pile of $\frac{3}{4}$ " crushed stone mix that had been spread in the buffer and a previous wetland conditional use permit application for this site that required the current driveway to be pervious pavement.

[1:20:18] B. Gibb noted that there were enough remaining issues that required further clarification, and the current conversation was not resolving the issues. He recommended that they clarify to the applicant, in the essence of time, that they will or will not be making a recommendation for approval to then give the applicants a list of what to work on for the next submission.

[1:21:46] B. Gibb made a motion to postpone the application until the issues could be addressed. S. Sheppard seconded the motion.

[1:22:58] Mr. Taylor requested that the previous 2015 WCUP application be sent to their office for review. Ms. Homet said she could scan the document for them.

[1:23:31] S. Sheppard started the discussion on what the commissioners would like to see come back in the next application submission. These requests included:

- A 25' wetland buffer line delineated on all plans
- A stamped wetland delineation plan with the date of delineation
- The inclusion of topography/elevation lines depicted on plans

- The planting plan included in the next submission plan
- Clarify on plans the existing and proposed state and dimensions of the driveway area (including materials). This must be converted to pervious area as originally approved.
- Distances of the proposed rain gardens to the wetland resources
- The rain garden detail should be included in the next submission plan with exact dimensions and a better understanding of the existing soil types in those areas
- More information on the French drain, its proposed slope, the detail sheet, whether it would be surrounded by gravel, depth of gravel, etc.
- No mowing or cutting should be allowed within the 25' buffer
- A relocation of the rain gardens outside of the 25' buffer is preferred
- Applicant should locate on plans where permanent wetland boundary markers will be placed, preferably along the no-mow line and installed prior to any construction.

The motion passed unanimously.

VI. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill - Minor Impact
39 Dearborn Street
Shawn & Michiyo Bardong, Owners
Assessor Map 140 Lot 3

[1:37:45] S. Sheppard made a motion to recommend postponement of this application to the State. B. Gibb seconded the motion. The motion passed unanimously.

2. Dredge and Fill - Major Impact
1 Peirce Island Road
Pease Development Authority c/o Portsmouth Fish Co Op
Assessor Map 208 Lot 1A

[1:38:35] Ms. Homet announced that the applicants for this application had let her know ahead of time that they would not be physically present to present the application. Acting Chair McMillan stated that if people had questions for the applicants, then they should probably postpone. If not, they could deliberate and make a motion. S. Sheppard made a motion to postpone the application. A. Carey seconded the motion. Acting Chair McMillan mentioned some of the questions she had for the applicants regarding marsh elder. A. Carey also noted one of her questions regarding the area of work and the driveway alignment. A discussion continued about the issues brought up by commissioners. The motion passed unanimously.

3. Dredge and Fill - Minor Impact
333 Borthwick Avenue
HCA Health Services of NH
Assessor Map 240 Lot 2-1

[1:44:27] Acting Chair McMillan introduced this item and noted that nobody was there to present the application. Again, there were a few questions she had for the applicant. Ms. Homet

briefly went over the work proposed and noted that this application would also be submitting a City permit for this work as well as this NHDES permit. S. Sheppard made a motion to recommend postponement of this application to NHDES. B. Gibb seconded the motion. The motion passed unanimously.

V. OTHER BUSINESS

[1:47:04] B. Gibb noted that for the Dearborn application, he could tell the applicants were quite frustrated with all the requests and it reminded him of the conversation the commission has previously had about being more vocal during site walks about what is needed in applications. A discussion continued about missing pieces of the application and being able to clearly put forth a solid recommendation with a full application to the Planning Board for final review.

[1:55:20] Acting Chair McMillan noted that the commission had really great comments and recommendations during this meeting. She also noted that the commission now had an opening for an alternate member, and it would be great if they could fill that spot.

[1:55:58] J. Blasko noted that tomorrow would be Children's Environmental Health Day, which the Mayor had just made a proclamation for.

VI. ADJOURNMENT

The meeting adjourned at 5:55 p.m.

**NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION**

**Portsmouth Fish Pier – Building Replacement
Portsmouth, New Hampshire**

Prepared For:

Pease Development Authority
Division of Ports and Harbors
555 Market Street
Portsmouth, NH 03801

September 24, 2024

Prepared By:

Certified Soil Scientist
Certified Wetland Scientist
Certified Professional in Erosion and Sediment Control
P.O. Box 417
Greenland, NH 03840-0417

And



OAK POINT
ASSOCIATES

architecture
engineering
planning

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Standard Dredge and Fill Wetlands Permit Application
Avoidance and Minimization Checklist
USACE Section 404 Checklist
Project Narrative

SECTION 2

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NH Division of Historical Resources Request for Project Review
USFWS IPAC Review
Photographs

SECTION 3

USGS Map
FEMA Flood Map
Priority Resource Areas Map
Highest Ranked Wildlife Habitat Map
Coastal Layers Map

SECTION 4

Abutters List
Assessors Maps

APPENDICIES

Appendix A – Coastal Functional Assessment
Appendix B – Site Plans

Section 1



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME: PDA Ports and Harbors **TOWN NAME:** Portsmouth

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

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="radio"/> Yes <input type="radio"/> No
Does the property contain a PRA? If yes, provide the following information:	<input checked="" type="radio"/> Yes <input type="radio"/> No
<ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): See info in Section 2 ○ NHB Project ID #: NHB24-1178 	<input type="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Bog? 	<input type="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Floodplain wetland contiguous to a tier 3 or higher watercourse? 	<input checked="" type="radio"/> Yes <input type="radio"/> No
<ul style="list-style-type: none"> • Designated prime wetland or duly-established 100-foot buffer? 	<input type="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? 	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the property within a Designated River corridor? If yes, provide the following information:	<input type="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="radio"/> Yes <input checked="" type="radio"/> No
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Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="radio"/> Yes <input checked="" type="radio"/> No
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For stream crossing projects, provide watershed size (see [WPPT](#) or Stream Stats):

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))

Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.

The project provides for removal of the existing building (5,075 sf) and portions of the existing foundations, and construction of a wood-framed building on existing foundations (2,000 sf). The existing building was constructed circa 1978 and two additions were added in later years. The existing building is inefficient for the fishermen's current needs and is in a state of disrepair.

SECTION 3 - PROJECT LOCATION

Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.

ADDRESS: 1 Peirce Island Road

TOWN/CITY: Portsmouth

TAX MAP/BLOCK/LOT/UNIT: 208/1A

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: N/A **Piscataqua River**

(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places): 43.07571, -70.74893

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: Pease Development Authority Division of Ports and Harbors, Attn: Myles Greenway		
MAILING ADDRESS: 555 Market Street		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: M.Greenway@peasedev.org		
FAX:	PHONE: 603-534-6234	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.: Steven Sargent, PE		
COMPANY NAME: Oak Point Associates		
MAILING ADDRESS: 85 Middle Street		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: ssargent@oakpoint.com		
FAX:	PHONE: 603-431-4849	
ELECTRONIC COMMUNICATION: By initialing here, 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 type="checkbox"/> Same as applicant		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

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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):

The project is not expected to have any impact on the self-sustaining ability of the tidal buffer zone to: provide habitat values, protect tidal environments from potential sources of pollution, provide stability of the coastal shoreline and maintain existing buffers intact. The project will have no adverse impact to: beach or tidal flat sediment replenishment, the movement of sediments along the shore, the tidal wetlands ability to dissipate wave energy and storm surge and, project runoff on salinity levels in adjacent tidal environments.

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 (PERM.) impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary (TEMP.) impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. ATF
Wetlands	Forested Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River			<input type="checkbox"/>			<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>			<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ	4,815		<input type="checkbox"/>	1,870		<input checked="" type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

<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): 6,685 SF × \$0.40 = \$ 2,674
Seasonal docking structure: SF × \$2.00 = \$
Permanent docking structure: SF × \$4.00 = \$
Projects proposing shoreline structures (including docks) add \$400 = \$
Total = \$
<i>The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$ 2,674</i>

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: SS	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: SS	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: SS	<p>The signer understands that:</p> <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.
Initials: SS	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: Myles Greenway	DATE: 9-25-24
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): Steve Sargent, P.E. <small>Digitally signed by Steve Sargent, P.E. Date: 2024.09.23 19:47:03 -04'00'</small>	PRINT NAME LEGIBLY: Steven Sargent	DATE: 9-24-24

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:
TOWN/CITY:	DATE:

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. 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.
3. 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.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the 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 at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".



AVOIDANCE AND MINIMIZATION CHECKLIST

Water Division/Land Resources Management Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A/ Env-Wt 311.07(c)

This checklist can be used in lieu of the written narrative required by Env-Wt 311.07(a) to demonstrate compliance with requirements for Avoidance and Minimization (A/M), pursuant to RSA 482-A:1 and Env-Wt 311.07(c).

For the construction or modification of non-tidal shoreline structures over areas of surface waters without wetland vegetation, complete only Sections 1, 2, and 4 (or the applicable sections in [Attachment A: Minor and Major Projects \(NHDES-W-06-013\)](#)).

The following definitions and abbreviations apply to this worksheet:

- “A/M BMPs” stands for [Wetlands Best Management Practice Techniques for Avoidance and Minimization](#) dated 2019, published by the New England Interstate Water Pollution Control Commission (Env-Wt 102.18).
- “Practicable” means available and capable of being done after taking into consideration cost, existing technology, and logistics in light of overall project purposes (Env-Wt 103.62).

SECTION 1 - CONTACT/LOCATION INFORMATION		
APPLICANT LAST NAME, FIRST NAME, M.I.: Pease Development Authority, Division of Ports and Harbors		
PROJECT STREET ADDRESS: 1 Peirce Island Road	PROJECT TOWN: Portsmouth	
TAX MAP/LOT NUMBER: 208/1A		
SECTION 2 - PRIMARY PURPOSE OF THE PROJECT		
Env-Wt 311.07(b)(1)	Indicate whether the primary purpose of the project is to construct a water-access structure or requires access through wetlands to reach a buildable lot or the buildable portion thereof.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>If you answered “no” to this question, describe the purpose of the “non-access” project type you have proposed:</p> <p>The project provides for removal of the existing building (5,075 sf) and portions of the existing foundations, and construction of a wood-framed building on existing foundations (2,000 sf). The existing building was constructed circa 1978 and two additions were added in later years. The existing building is inefficient for the fishermen's current needs and is in a state of disrepair.</p>		

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SECTION 3 - A/M PROJECT DESIGN TECHNIQUES		
Check the appropriate boxes below in order to demonstrate that these items have been considered in the planning of the project. Use N/A (not applicable) for each technique that is not applicable to your project.		
Env-Wt 311.07(b)(2)	For any project that proposes new permanent impacts of more than one acre or that proposes new permanent impacts to a Priority Resource Area (PRA), or both, whether any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.07(b)(3)	Whether alternative designs or techniques, such as different layouts, construction sequencing, or alternative technologies could be used to avoid impacts to jurisdictional areas or their functions and values.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(1) Env-Wt 311.10(c)(2)	The results of the functional assessment required by Env-Wt 311.03(b)(10) were used to select the location and design for the proposed project that has the least impact to wetland functions.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.07(b)(4) Env-Wt 311.10(c)(3)	Where impacts to wetland functions are unavoidable, the proposed impacts are limited to the wetlands with the least valuable functions on the site while avoiding and minimizing impacts to the wetlands with the highest and most valuable functions.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.01(c)(1) Env-Wt 313.01(c)(2) Env-Wt 313.03(b)(1)	No practicable alternative would reduce adverse impact on the area and environments under the department's jurisdiction and the project will not cause random or unnecessary destruction of wetlands.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.01(c)(3)	The project would not cause or contribute to the significant degradation of waters of the state or the loss of any PRAs.	<input checked="" type="checkbox"/> Check <input type="checkbox"/> N/A
Env-Wt 313.03(b)(3) Env-Wt 904.07(c)(8)	The project maintains hydrologic connectivity between adjacent wetlands or stream systems.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	Buildings and/or access are positioned away from high function wetlands or surface waters to avoid impact.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The project clusters structures to avoid wetland impacts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 311.10 A/M BMPs	The placement of roads and utility corridors avoids wetlands and their associated streams.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	The width of access roads or driveways is reduced to avoid and minimize impacts. Pullouts are incorporated in the design as needed.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	The project proposes bridges or spans instead of roads/driveways/trails with culverts.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A

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A/M BMPs	The project is designed to minimize the number and size of crossings, and crossings cross wetlands and/or streams at the narrowest point.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 500 Env-Wt 600 Env-Wt 900	Wetland and stream crossings include features that accommodate aquatic organism and wildlife passage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 900	Stream crossings are sized to address hydraulic capacity and geomorphic compatibility.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
A/M BMPs	Disturbed areas are used for crossings wherever practicable, including existing roadways, paths, or trails upgraded with new culverts or bridges.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
SECTION 4 - NON-TIDAL SHORELINE STRUCTURES		
Env-Wt 313.03(c)(1)	The non-tidal shoreline structure has been designed to use the minimum construction surface area over surfaces waters necessary to meet the stated purpose of the structure.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(2)	The type of construction proposed for the non-tidal shoreline structure is the least intrusive upon the public trust that will ensure safe navigation and docking on the frontage.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(3)	The non-tidal shoreline structure has been designed to avoid and minimize impacts on the ability of abutting owners to use and enjoy their properties.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(4)	The non-tidal shoreline structure has been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(5)	The non-tidal shoreline structure has been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A
Env-Wt 313.03(c)(6)	The non-tidal shoreline structure has been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.	<input type="checkbox"/> Check <input checked="" type="checkbox"/> N/A



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**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

USACE Section 404 Checklist

1. Attach any explanations to this checklist. Lack of information could delay a USACE permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 3 for information on single and complete projects.
4. Contact USACE at (978) 318-8832 with any questions.
5. The information requested below is generally required in the NHDES Wetland Application. See page 61 for NHDES references and Admin Rules as they relate to the information below.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See the following to determine if there is an impaired water in the vicinity of your work area. * https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx		X
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to tidal SAS, prime wetlands, or priority resource areas? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at https://www4.des.state.nh.us/NHB-DataCheck/ .		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	NA	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	UNKNOWN	
2.7 What is the area of the proposed fill in wetlands?	NONE	
2.8 What % of the overall project sire will be previously and proposed filled wetlands?	UNKNOWN	
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: https://www4.des.state.nh.us/NHB-DataCheck/ . USFWS IPAC website: https://ipac.ecosphere.fws.gov/	X	

3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> • PDF: https://wildlife.state.nh.us/wildlife/wap-high-rank.html. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html. 		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 31?	NA	
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		X
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?	NA	
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the RPR Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 37 GC 14(d) of the GP document**	X	
6. Minimal Impact Determination (for projects that exceed 1 acre of permanent impact)	Yes	No
Projects with greater than 1 acre of permanent impact must include the following: <ul style="list-style-type: none"> • Functional assessment for aquatic resources in the project area. • On and off-site alternative analysis. • Provide additional information and description for how the below criteria are met. 		
6.1 Will there be complete loss of aquatic resources on site?		
6.2 Have the impacts to the aquatic resources been avoided and minimized to the greatest extent practicable?		
6.3 Will all aquatic resource function be lost?		
6.4 Does the aquatic resource (s) have regional significance (watershed or ecoregion)?		
6.5 Is there an on-site alternative with less impact?		
6.6 Is there an off-site alternative with less impact?		
6.7 Will there be a loss to a resource dependent species?		
6.8 Are indirect impacts greater than 1 acre within and adjacent to the project area?		
6.9 Does the proposed mitigation replace aquatic resource function for direct, indirect, and cumulative impacts?		

*Although this checklist utilizes state information, its submittal to USACE is a federal requirement.

** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.



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**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

NHDES Rule Citations

Appendix B Requirements	NHDES Citation	NHDES Resource, Form & BMP
1. Impaired Waters		
1.1	See Env-Wt 307.03 Protection of Water Quality Required & Env-Wt 306.05 a) 7	https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx
2. Wetlands		
2.1	N/A	N/A
2.2	Env 307.06; Env- Wt 311.01(a)(b) (c)	NH Online Forms System - Coastal Resource Worksheet. Version 2.0 Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov) https://www4.des.state.nh.us/NHB-DataCheck/ .
2.3	Env-Wt 313.03(b)(3); Env-Wt 313.03(b)(4)(7); Env-Wt 307.06	See Chapter 7, Stream & Wetland Crossings: Wetlands Best Management Practice Techniques for Avoidance and Minimiz Wetlands-BMP-Manual-2019.pdf (neiwppcc.org) (& Env-Wt 900 for Stream Crossings)
2.4	Env-Wt 604.02 (Tidal buffer zone); Env-Wt 704 (prime buffers)	
2.5	N/A	N/A
2.6	N/A	N/A
2.7	Env-Wt 311.04(g)	Standard application Section 11- NH Online Forms System - Standard Dredge and Fill Wetlands Permit Application . Version 3.5
2.8	N/A	N/A
3. Wildlife		
3.1	Env-Wt 103.69 "Protected species or habitat"; Env-Wt 307.06, 311.01	NHB DataCheck Tool: https://www4.des.state.nh.us/NHB-DataCheck/ . Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov)
3.2	Env-Wt 311.02; 313.03(b)(2), (4), (7)(16); Env-Wt 313.03(b)(6) & See Env-Wt 808.19(g), Env-Wt 808.20	Wetlands Permitting: Protected Species and Habitat (nh.gov) Wetlands Permitting: Priority Resource Area (nh.gov)
3.3	N/A	N/A
3.4	NA	N/A
3.5	(Env-Wt 900) Microsoft Word - Env-Wt 900 as of 10-2020.docx (nh.gov)	New Hampshire Stream Crossing Guidelines (nh.gov) (2009 UNH) NH Online Forms System - Wetland Permit Application Stream Crossing Worksheet. Version 1.8 Stream Crossing Design (nh.gov) : https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/documents/RR_V.9_FINAL_3-14-19.pdf Best Management Practices for Routine Roadway Maintenance Activities in New Hampshire. 2019. New Hampshire Department of Transportation.
4. Flooding/Floodplain Values		
4.1	Env-Wt 311.05; Env-Wt 103.66 517.03(b); 517.06(a)(6);	Wetlands Permitting: Priority Resource Area (nh.gov) NH Online Forms System - Coastal Resource Worksheet. Version 2.0 New Hampshire Coastal Flood Risk Summary NH Department of

	527.02(e); 527.04(d); Env-Wt 600 Env-Wt 900	Environmental Services (cited in Env-Wt 603.05) NH Online Forms System - Wetland Permit Application Stream Crossing Worksheet. Version 1.8 hydraulic-vulnerability-handout.pdf (nh.gov)
4.2	Env-Wt 527.02 & 527.04 & 313.04 & Env-Wt 800; Wt 605.03 & 605.04	Yes, for permanent impacts to a PRA, impacts from public highway projects, & those projects where flood storage functions are lost when the mitigation threshold is reached. Wetlands Mitigation NH Department of Environmental Services
5. Historical/Archeological Resources		
5.0	Env-Wt 311.02(f)(6)	
6. Minimal Impact Determination		
6.0	F/V assessment: (Env-Wt 311.10); Env-Wt 603.04 (Coastal Functional Assessment) Alternatives: (Env-Wt 311.07(b)(2))	NH Online Forms System - Wetlands Functional Assessment Worksheet. Version 1.3 NH Online Forms System - Coastal Resource Worksheet. Version 2.0
6.1		Wetlands Permitting: Avoidance, Minimization, and Mitigation (nh.gov)
6.2	Env-Wt 102.12 ("Avoidance"), Env-Wt 102.13 ("Avoidance, minimization, mitigation"), Env-Wt 102.14 ("Avoid and minimize"), Env-Wt 311.01, Env-Wt 313.03 ("Avoidance & Minimization") Env-Wt 311.07	See <i>Wetlands Best Management Practice Techniques for Avoidance and Minimization</i> - Wetlands-BMP-Manual-2019.pdf (neiwppc.org) referenced in Env-Wt 313.03(a); A/M written narrative (NH Online Forms System - Avoidance and Minimization Written Narrative. Version 2.0); Avoidance and Minimization Checklist: NH Online Forms System - Avoidance and Minimization Checklist. Version 3.1
6.3	Env-Wt 311.10, 603.04	See Functional Assessment worksheets above
6.4	Env-Wt 311.02, Env-Wt 312.04. Env-Wt 306.05, 307.06, 311.01	See Protected Species or Habitat (including exemplary natural communities)
6.5	Env-Wt 311.01, Env-Wt 311.07, Env-Wt 311.10 & 313.01 c1)	See Avoidance & Minimization cites above & BMPs
6.6	(Env-Wt 313.01c) (1) & Env-Wt 311.07(b)(2))	
6.7	Env-Wt 311.10, Env-Wt 103.69, Env-307.06, see Avoidance & minimization cites	NH Online Forms System - Wetlands Functional Assessment Worksheet. Version 1.3 ; Wetlands Permitting: Priority Resource Area (nh.gov) NH Online Forms System - Coastal Resource Worksheet. Version 2.0
6.8	Env-Wt 102.05 (Water quality BMPs)	Practices to minimize or prevent direct or indirect discharge of sediment or other pollutants into surface waters and wetlands, listed in Env-Wt 307
6.9	Env-Wt 800	



Project Narrative

The Portsmouth Commercial Fish Pier was developed circa 1978 to support the commercial fishing industry. The existing facility includes a pier, floating dock, 5,075 square foot building that includes cold storage facilities, utilities and parking. The area of the original building developed in 1978 is 2,000 square feet (sf) and the subsequent additions added in later years total approximately 3,075 sf. The existing building is inefficient for the fishermen's current needs and is in a state of disrepair.

The proposed project provides for removal of the existing building and construction of a building (2,000 sf) on the existing original 1978 portion of the existing foundations. The building will have a wood framed structure, similar to the existing building. The characteristics of the building aim to blend with the architectural style of the surrounding neighborhood. The building envelope will be finished with composite trim, and asphalt shingles. The interior will house a utility room, forklift storage area, and cold storage spaces for bait, ice production and catch to serve the commercial fishermen.

Ground disturbances associated with the project include shallow excavations for the purpose of temporary termination of existing utility services, restoration of utility services and removal of a portion of the existing foundation system (portion not to be reused) to 12 inches below the finish grade. The total area to be disturbed at the exterior of the original 1978 portion of the existing building is approximately 5,705 sf, which includes the area of the existing foundation to be removed. A portion of the existing slab within the interior of the original 1978 portion of the existing building (approximately 980 sf) will be replaced.

All work is within the limits of existing paved areas, except for approximately 12 linear feet of underground conduits within a maintained gravel and turf area that extend to the existing shed to support the gas and diesel system high-level alarms. No work is proposed along the shoreline.

Alternatives Analysis

During the study phase of the project, several alternatives were considered for replacement of the building program on-site:

1. Construction of a wood-framed building on the existing foundations (1978 portion);
2. Construction of various types of buildings (pre-engineered metal, pole-barn and wood framed) on new foundations, generally located within the footprint of the existing building;
3. Renovation of the existing building; and
4. Multiple buildings; one within the footprint of the existing building and another located within the parking area closest to Peirce Island Road.

The proposed plan was found to be the most favorable alternative and selected for the replacement of the building for the following reasons:

1. Maintains building facilities and functions within close proximity to the pier and docks;
2. Reuses the 1978 portion of the existing foundation system, minimizing the extent of disturbance, demolition and construction required. Other types of buildings would require complete demolition of the existing foundations and construction of new foundations that can accommodate the structure loading;
3. A replacement wood-framed building provides the best opportunity to blend with the architectural style of the surrounding neighborhood;
4. Renovation of the existing building was found to be impractical, due to the extent of renovations/reconstruction required to meet current building codes, risks associated with unknown existing conditions and project costs. Also, this alternative would result in a similar area of disturbance within the tidal buffer zone as the proposed plan.

Work Sequence

The project must be awarded by the end of the 2024 calendar year, due to funding constraints. The goal is to begin construction in January 2025 to allow for beneficial use of the building in the summer of 2025. The general construction timeline is as follows:

Table 1 - Construction Timeline		
Item	Schedule	
	Begin	Complete
Mobilization, fence and erosion controls	January 2025	January 2025
Building abatement and temporary termination of existing utility services	January 2025	February 2025
Building and site demolition	February 2025	March 2025
Building construction	March 2025	July 2025
Site and utility construction	April 2025	July 2025
Permanent site stabilization	May 2025	July 2025

Section 2



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Steven Sargent, Oak Point Associates
85 Middle Street
Portsmouth, NH 03840
ssargent@oakpoint.com

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc:

Date: 04/25/2024 (valid until 04/25/2025)
Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game
Permits: OTHER - Project evaluation

NHB ID: NHB24-1178

Town: Portsmouth
Location: 1 Pierce Island Road

Project Description: The project being evaluated includes demolition of the existing 5,100 square foot building, reconstruction of a portion of the building (1,750 sf) on the existing foundations, and paving the remaining former building area.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: If all work is within existing paved areas then NHB has no concerns. If any work is proposed along the shoreline, then please contact NHB with proposed plans and representative photos during the growing season of the shoreline proposed to be impacted.

NHFG Comments: No comments at this time.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project.

Please see the map and detailed information about the record(s) on the following pages.

Plant species	State ¹	Federal	Notes
marsh elder (<i>Iva frutescens</i>)	T	--	Threats are primarily alterations to the hydrology of the wetland, such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat, activities that eliminate plants, and increased input of nutrients and pollutants in storm runoff.

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.

NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-1178

EOCODE:

PDA5T58090*005*NH

New Hampshire Natural Heritage Bureau - Plant Record

marsh elder (*Iva frutescens*)

Legal Status

Federal: Not listed
State: Listed Threatened

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank: This rank may be for the state rather than relative to others in the region.

Detailed Description: 2023: Transplant, Lady Isle: 10 plants transplanted to this location from the west side of both ends of the Lady Isle Bridge (old locations not mapped in database). 2021: Lady Isle: Plants intermittently distributed along the westernmost portion of the island. 2020: Tidal Pool: Species observed in flower. 2017: Leachs Island: Several thousand plants spread along 800+ feet of shoreline. 10-20% dieback, 10-15% yellowing, 65-80% normal to vigorous. Aphids observed on 80% of clumps. 2016: Peirce Island: Additional subpopulations located, raising total number of plants to over 600. Plants appear to be in much better health than 2014, with all individuals in fruit and in good vigor. Shaws Hill: Several clumps over an area approximately 30 x 15 feet. Estimated at over 200 individuals. Tidal Pool: Plants in 3 areas along shoreline near tidal pool. 2014 Peirce Island: Over 500 plants were observed, all stunted, with approximately 50-60% dead stems, mostly confined to the upper portions of the plants. 1996: Constant observation since 1953 reported, including all stages of phenology and age structure. 1982: Good clump observed.

General Area: 2023: Transplant, Lady Isle: Plants transplanted next to a known marsh elder (*Iva frutescens*) stand. This area has full-sun exposure and soil composition that supports this species. The transplant site is just above the highest observable tide line and is not subject to prolonged periods of flooding and saturation. The site is adjacent to a well-established, naturally wooded, upland buffer bordering a salt marsh with no nearby development. The invasive plants Japanese barberry (*Berberis thunbergia*), glossy buckthorn (*Frangula alnus*), and Japanese honeysuckle (*Lonicera japonica*) were present at the site and removed along with large overhanging oak (*Quercus sp.*) limbs. 2017: Leachs Island: Upper edge of brackish marsh/rocky shore. Plants absent from areas with broader expanse of marsh. Rocks present in most areas where the plants are growing. Associated species include black oak (*Quercus velutina*), saltmarsh rush (*Juncus gerardii*), sea-blite (*Suaeda sp.*), hastate-leaved orache (*Atriplex cf. prostrata*), smooth cordgrass (*Spartina alterniflora*), Carolina sea-lavender (*Limonium carolinianum*), and seaside plantain (*Plantago maritima ssp. juncooides*). 2016: Peirce Island: Population forms a narrow band immediately above the highest observed wrack line along the shore. Associated upland species include staghorn sumac (*Rhus hirta*), autumn-olive (*Elaeagnus umbellata var. parvifolia*), Asian bittersweet (*Celastrus orbiculatus*), and speckled alder (*Alnus incana ssp. rugosa*). The saline areas downslope

NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178

EOCODE:

PDA5T58090*005*NH

of the marsh elder contained over 50% unvegetated substrate, as well as a mixture of cordgrass (*Spartina* sp.) and saltgrass (*Distichlis spicata*). Shaws Hill: Surrounding land use is developed. All plants below highest observable tide line in **high salt marsh**, located among saltmeadow cordgrass (*Spartina patens*), smooth cordgrass (*Spartina alterniflora*), and seaside goldenrod (*Solidago sempervirens*). Tidal Pool: Sagamore Creek/Great Bay shoreline, with smooth cordgrass (*Spartina alterniflora*), saltmarsh rush (*Juncus gerardii*), saltmeadow cordgrass (*Spartina patens*), seaside goldenrod (*Solidago sempervirens*), and sea-blite (*Suaeda* spp.). 1996: On shores of several islands and peninsulas in the more or less enclosed bay system. Associated plant species: *Solidago sempervirens* (seaside goldenrod), *Juncus gerardii* (salt marsh rush), *Spartina patens* (salt-meadow cord-grass), *Triglochin maritimum* (arrow-grass), *Elymus virginicus* (Virginia wild rye), *Atriplex patula* (narrow-leaved orach), and *Artemisia vulgaris* (common mugwort). Substrate: gravel and marsh peat and muck. 1982: On shore at Pleasant Point.

General Comments: 2023: Transplant, Lady Isle: Bill Nichols the State botanist noted this may not have been the best location for the transplant and suggested the plants should have been planted within the high salt marsh along its upper edge where inundated by spring (full and new moon) tides. He noted the marsh elder likely would have had a much better chance to survive if transplanted in with the marsh graminoids below the oak seedlings mixed in with the graminoids. 2021: Lady Isle: Site is referred to Belle Isle on reporting form, and appears as Belle Island on some maps, but is called Lady Isle on USGS topo. 2016: Peirce Island: "The population currently appears to be in good health, although the results of the June 2014 surveys indicated that there may be some intermittent pressure on this population. The propensity of this species to grow in a very narrow band along the tide line does not allow for rapid adaptation to changing sea levels, storm events, or polluted runoff that a larger, robust population may resist. If sea levels gradually rise as expected, the marsh elder will be unable to move inland due to a small but steep cut bank that forms the upland break adjacent to the marsh elder population. The remaining subpopulations may also be getting shaded by the adjacent upland vegetation, which appears to be encroaching on the shoreline. This vegetation is comprised of large shrub species and the invasive Oriental bittersweet that is capable of overtaking the native plants in the area."

Management Comments: 2023: Transplant, Lady Isle: Ten plants transplanted to this site next to an existing marsh elder population. The transplant site was prepared by removing invasive species and their root systems and removing large overhanging oak limbs to allow for greater sun penetration. Ten holes were dug to accommodate the roots masses of the shrubs to be transplanted. To avoid transplant shock by way of heat exposure, the transplanting occurred on an overcast day with intermittent showers and breaks from the sun where the temperature did not exceed 68 degrees Fahrenheit. To avoid damage to the root system, a large pry bar was used. This allowed the transplant team to get well beneath the entire root system and loosen the surrounding soil with only minimal damage to the root systems. The shrubs were then extracted by hand from the substrate. Immediately following removal, team members placed the root mass of the shrubs in a bucket and they were individually walked to the transplant site. The holes dug the previous day were reworked to ensure they accommodated each plant and the root ball was then inserted into the ground so the crown of the plant rested at

NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178

EOCODE:

PDA5T58090*005*NH

the soil line. To facilitate maximum water uptake, wet soils at the transplant site were used to cover the root masses. Dryer soils from the transplant area were used to backfill any remaining void spaces. Once the plants were in the ground and the parent soil material was backfilled, natural mulch and duff in the surrounding area was used to cover the surface of ground surrounding the transplants. Rocks were also placed around each plant to increase stability during high tides. Lime green ribbon was placed on the transplants so they can be more readily differentiated from the surrounding landscape during follow-up inspections. Following the transplant the marsh elder will continue to be monitored for three years and will be watered during any abnormally dry conditions.

Location

Survey Site Name: Little Harbor, back channel

Managed By: Little Harbor Trust

County: Rockingham

Town(s): Portsmouth

Size: 61.6 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2021: Lady Isle: Shoreline along western end of Lady Isle. 2017: Leachs Island: Island in New Castle only accessible by boat. Plants observed on south shore of island. 2016: Peirce Island: Along the southern shore of Peirce Island, along the edge of a small cove west of the wastewater treatment facility. Shaws Hill: Take Laurel Lane off New Castle Avenue, bear left onto driveway right-of-way servicing 51A & 51B Laurel Lane. At end of right-of-way, 51B will be located on the right. Tidal Pool: Along Sagamore Creek shoreline on Creek Farm Reservation property in Portsmouth. In the vicinity of Rte. 1B which encircles the Little Harbor back channel from Portsmouth to New Castle and Rye. Many of the sites are visible only by boat.

Dates documented

First reported: 1953

Last reported: 2023-06-07



OAK POINT
ASSOCIATES

architecture
engineering
planning

August 8, 2024

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attn: Review and Compliance
172 Pembroke Road
Concord, NH 03301

**Re: NHDHR Request for Project Review
Portsmouth Fish Pier – Building Replacement
Portsmouth, New Hampshire
OPA Project No. 22404.11**

To Whom It May Concern:

Please find attached a NHDHR Request for Review for the referenced project consisting of the following information:

- Completed Request for Project Review by the NH Division of Historical Resources Form
- Historical Resources Map
- USGS Location Map
- Photos of the Project Site
- Record Drawings – Plans for Proposed Fishing Pier
- Site Existing Conditions Plan
- Concept Site Plan
- 3D Concept Renderings

The Portsmouth Fish Pier was developed circa 1978 to support the commercial fishing industry. The existing facility includes a pier, floating dock, 5,000 square foot building that includes cold storage facilities, utilities and parking. The area of the original building developed in 1978 is 2,000 square feet (sf) and the subsequent additions added in later years total approximately 3,000 sf. The existing building is inefficient for its current needs and is in a state of disrepair.

The proposed project provides for removal of the existing building in its entirety and replacement of the existing original 1978 portion of the building in the same location, on existing foundations. The building will have a wood framed structure, similar to the existing building. The characteristics of the building will aim to blend with the architectural style of the surrounding neighborhood. The building envelope will be finished with horizontal or shake-style siding, composite trim, and asphalt shingles. The interior will house a utility room, forklift storage area, and space to accommodate future walk-in coolers for bait storage and ice production to serve the commercial fishermen.

Ground disturbances associated with the project include shallow excavations for the purpose of temporary termination of existing utility services, restoration of utility services and removal of a portion of the existing foundation system (portion not to be reused) to 12 inches below the finish grade. The

total area to be disturbed at the exterior of the original 1978 portion of the existing building is approximately 5,230 sf, which includes the area of the existing foundation to be removed. A portion of the existing slab within the interior of the original 1978 portion of the existing building (approximately 960 sf) will be replaced.

The project will have to awarded by the end of the calendar year, due to funding constraints, and it is expected that the project would be completed within 6 months of receiving the notice to proceed.

Preliminary discussion relative to the scope of the project with Nadine Miller on August 6, 2024, determined that EMMIT data results did not need to be submitted as a part of the Request for Project Review.

If you have any questions or concerns, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Steven Sargent".

Steven Sargent, P.E.

Enclosures

Please mail the completed form and required material to:

New Hampshire Division of Historical Resources
State Historic Preservation Office
Attention: Review & Compliance
172 Pembroke Road, Concord, NH 03301

RECEIVED AUG 12 2024

DHR Use Only	
R&C #	116346
Log In Date	8/12/24
Response Date	9/9/24
Sent Date	9/11/24

Request for Project Review by the New Hampshire Division of Historical Resources

- This is a new submittal
 This is additional information relating to DHR Review & Compliance (R&C) #:

GENERAL PROJECT INFORMATION			
Project Title	Building Replacement Portsmouth Commercial Fish Pier		
Project Location	1 Peirce Island Road		
City/Town	Portsmouth	Tax Map	305 Lot # 0208001A0000
NH State Plane - Feet Geographic Coordinates:	Easting	Northing	
<i>(See RPR Instructions and R&C FAQs for guidance.)</i>			
Lead Federal Agency and Contact <i>(if applicable)</i>	<i>(Agency providing funds, licenses, or permits)</i>		
	Permit Type and Permit or Job Reference #		
State Agency and Contact <i>(if applicable)</i>	NHDES Wetlands Bureau, Eben Lewis		
	Permit Type and Permit or Job Reference #		
APPLICANT INFORMATION			
Applicant Name	State of New Hampshire, Division of Ports and Harbors, Attn: Mark Greenway		
Mailing Address	555 Market Street	Phone Number	603-534-6234
City	Portsmouth	State	NH Zip 03801 Email M.Greenway@peasedev.org
CONTACT PERSON TO RECEIVE RESPONSE			
Name/Company	Steve Sargent, Oak Point Associates		
Mailing Address	85 Middle Street	Phone Number	603-431-4849
City	Portsmouth	State	NH Zip 03801 Email ssargent@oakpoint.com

*This form is updated periodically. Please download the current form at <https://www.nhdhr.dncr.nh.gov/project-review/project-review-compliance/requests-project-review>. Please refer to the Request for Project Review Instructions for direction on completing this form. Submit **one copy of this project review form for each project** for which review is requested. Please include a self-addressed stamped envelope. **Project submissions will not be accepted via facsimile or e-mail.** This form is required. Review request form must be complete for review to begin. Incomplete forms will be sent back to the applicant without comment. Please be aware that this form may only initiate consultation. For some projects, additional information will be needed to complete the Section 106 review. All items and supporting documentation submitted with a review request, including photographs and publications, will be retained by the DHR as part of its review records. Items to be kept confidential should be clearly identified. For questions regarding the DHR review process and the DHR's role in it, please visit our website at: <https://www.nhdhr.dncr.nh.gov/project-review/project-review-compliance/requests-project-review> or contact the R&C Specialist at Elizabeth.A.Schneible@dncr.nh.gov or 603-271-2813.*

PROJECTS CANNOT BE PROCESSED WITHOUT THIS INFORMATION

Project Boundaries and Description

- Attach the Project Mapping *using EMMIT or relevant portion of a 7.5' USGS Map.* (See RPR Instructions and R&C FAQs for guidance.)
- Attach a detailed narrative description of the proposed project.
- Attach a site plan. The site plan should include the project boundaries and areas of proposed excavation.
- Attach photos of the project area (overview of project location and area adjacent to project location, and specific areas of proposed impacts and disturbances.) *(Informative photo captions are requested.)*
- A DHR records search must be conducted to identify properties within or adjacent to the project area. Provide records search results via EMMIT or in **Table 1.** *(Blank table forms are available on the DHR website.)* Please note, using EMMIT Guest View for an RPR records search does not provide the necessary information needed for DHR review.
EMMIT or in-house records search conducted on / /

Architecture

Are there any buildings, structures (bridges, walls, culverts, etc.) objects, districts or landscapes within the project area? Yes No
If no, skip to Archaeology section. If yes, submit all of the following information:

Approximate age(s):

- Photographs of *each* resource or streetscape located within the project area, with captions, along with a mapped photo key. (Digital photographs are accepted. All photographs must be clear, crisp and focused.)
- If the project involves rehabilitation, demolition, additions, or alterations to existing buildings or structures, provide additional photographs showing detailed project work locations. (i.e. Detail photo of windows if window replacement is proposed.)

Archaeology

Does the proposed undertaking involve ground-disturbing activity? Yes No
If yes, submit all of the following information:

- Description of current and previous land use and disturbances.
- Available information concerning known or suspected archaeological resources within the project area (such as cellar holes, wells, foundations, dams, etc.)

Please note that for many projects an architectural and/or archaeological survey or other additional information may be needed to complete the Section 106 process.

DHR Comment/Finding Recommendation *This Space for Division of Historical Resources Use Only*

- Insufficient information to initiate review.** Additional information is needed in order to complete review.
- No Potential to cause Effects No Historic Properties Affected **No Adverse Effect** Adverse Effect

Comments: _____

If plans change or resources are discovered in the course of this project, you must contact the Division of Historical Resources as required by federal law and regulation.

Authorized Signature: *[Signature]* Date: 9/9/24



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project code: 2024-0127974
Project Name: Portsmouth Fish Pier Building Replacement

08/08/2024 18:59:29 UTC

Federal Nexus: yes
Federal Action Agency (if applicable): State of New Hampshire

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for
'Portsmouth Fish Pier Building Replacement'

Dear Steven Sargent:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on August 08, 2024, for "Portsmouth Fish Pier Building Replacement" (here forward, Project). This project has been assigned Project Code 2024-0127974 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is

required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Roseate Tern (<i>Sterna dougallii dougallii</i>)	Endangered	No effect

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To complete consultation for species that have reached a "May Affect" determination and/or species may occur in your project area and are not covered by this conclusion, please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on these listed species and/or critical habitats, avoid and minimize potential adverse effects, and prepare and submit a project review package if necessary: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

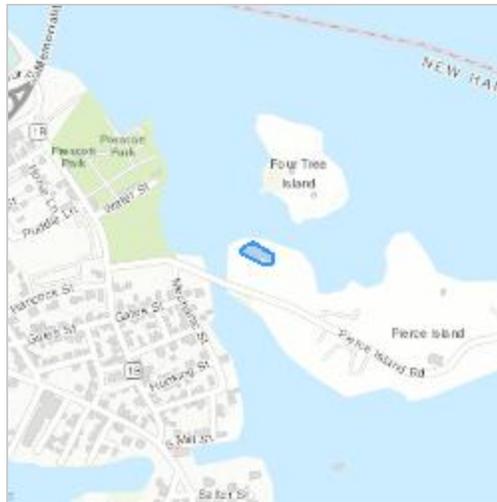
Portsmouth Fish Pier Building Replacement

2. Description

The following description was provided for the project 'Portsmouth Fish Pier Building Replacement':

The proposed project provides for removal of the existing building in its entirety and replacement of the existing original 1978 portion of the building in the same location, on existing foundations. The area of the original building developed in 1978 is 2,000 square feet (sf) and the subsequent additions added in later years total approximately 3,000 sf. The total area to be disturbed at the exterior of the original 1978 portion of the existing building is approximately 5,230 square feet.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.075646500000005,-70.74884834291878,14z>



QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

No

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

9. Is the lead federal action agency the Natural Resources Conservation Service?

No

10. Will the proposed project involve the use of herbicide where listed species are present?

No

11. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

12. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

13. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys, land-based or offshore wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

14. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

15. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

16. Will the proposed project activities (including upland project activities) occur within 0.125 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

No

17. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

No

18. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

19. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

20. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining where listed species may be present?

No

21. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

22. Will the proposed project involve perennial stream loss, in a stream or tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

23. Will the proposed project involve blasting where listed species may be present?

No

24. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

No

25. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream.

No

26. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

No

27. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

28. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

29. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

30. Will the proposed project result in changes to beach dynamics that may modify formation of habitat over time?

Note: Examples of projects that result in changes to beach dynamics include 1) construction of offshore breakwaters and groins; 2) mining of sand from an updrift ebb tidal delta; 3) removing or adding beach sands; and 4) projects that stabilize dunes (including placement of sand fences or planting vegetation).

No

31. [Hidden Semantic] Is the project area located within the roseate tern AOI?

Automatically answered

Yes

32. If you have determined that the roseate tern is unlikely to occur within your project's action area or that your project is unlikely to have any potential effects on the roseate tern, you may wish to make a "no effect" determination for the roseate tern. Additional guidance on how to make this decision can be found in the project review section of your local Ecological Services Field Office's website. CBFO: <https://www.fws.gov/office/chesapeake-bay-ecological-services/project-review> ; MEFO: <https://www.fws.gov/office/maine-ecological-services> ; NJFO: <https://www.fws.gov/office/new-jersey-ecological-services/new-jersey-field-office-project-review-guide> ; NEFO: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review#Step5> ; WVFO: <https://www.fws.gov/office/west-virginia-ecological-services/project-planning>. If you are unsure, answer "No" and continue through the key.

Would you like to make a no effect determination for the roseate tern?

No

33. Is this an aquaculture project?

No

34. Is this a coastal project that has an action area that is less than one-half acre?

Note: These projects may include marker buoys, moorings, navigational structures, docks, piers, floats, boat ramps, private dredging, boat houses, lobster pound, or shoreline work.

No

35. Will project activities be conducted during the time of year when roseate terns are likely to be present?

Note: roseate terns are likely to be present in Maine May 1 through Sept. 1; and in Connecticut, Massachusetts, New Hampshire, and Rhode Island April 15 through Oct. 15.

Yes

36. Will the proposed project affect suitable habitat for roseate terns nesting (barrier islands with dense vegetation or rocks to serve as shelter)?

No

37. Will the proposed project affect suitable habitat for roseate terns foraging (nearshore shallow waters, shoals and shoals in offshore waters)?

No

38. Will the proposed project affect suitable habitat for roseate terns roosting (rocky habitat on coastal islands)?

No

39. Will the proposed project affect suitable habitat for roseate terns staging (sandy barrier beaches, often on distal tips, primarily in NY and NE)?

No

40. Will the proposed project involve ground disturbance (e.g., vehicles, tracked equipment, excavating, grading, placing fill material, etc.) in roseate tern foraging, nesting, roosting or staging habitat while terns are likely to be present (April 1 - September 30)?

No

41. Does the action area include suitable habitat for migrating roseate terns (sandy beaches, coastal islands)?

No

42. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

43. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

44. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

45. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

46. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

47. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

48. Do you have any other documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?

0

2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?

0.12

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

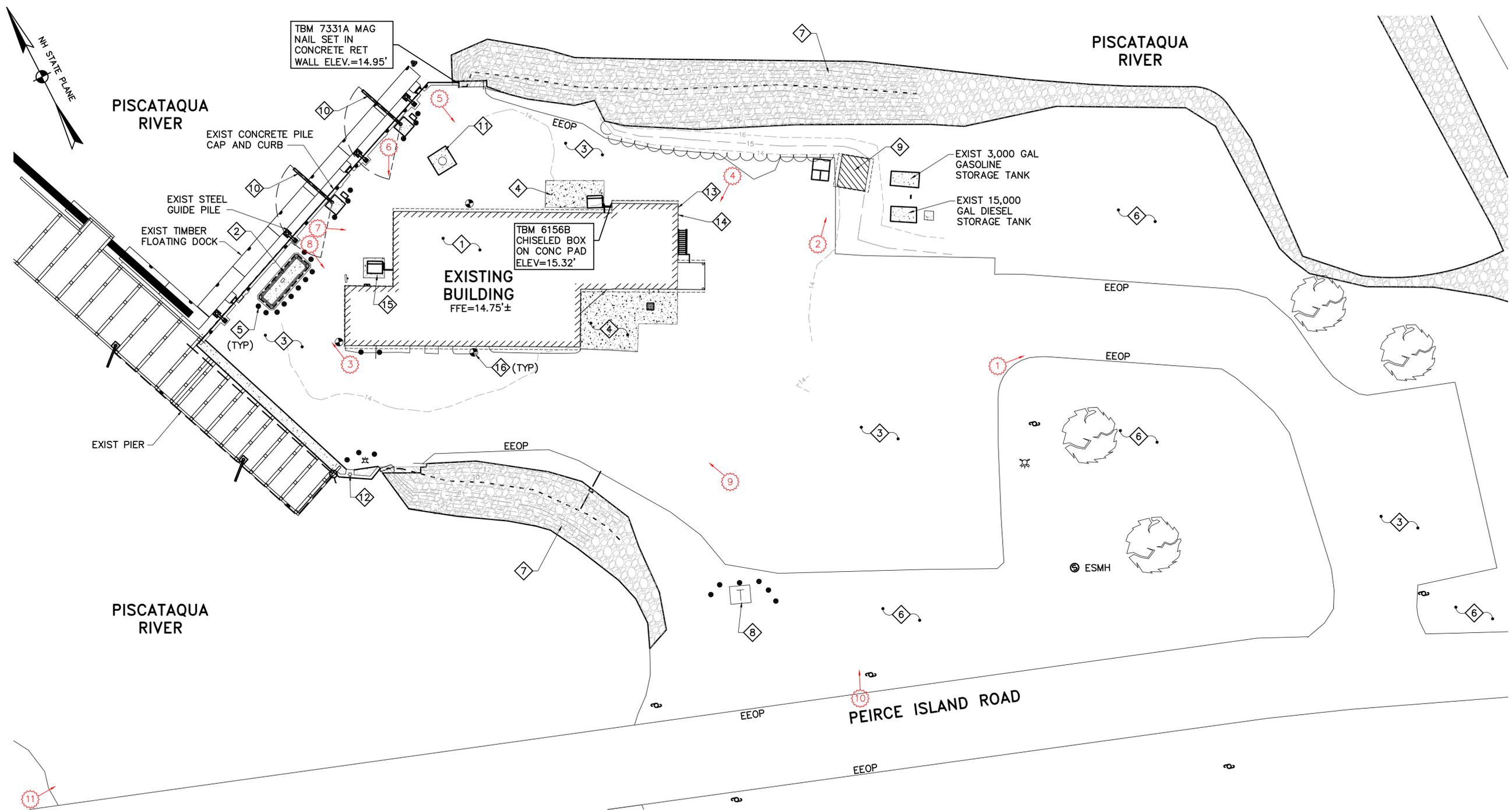
All disturbance associated with the project will be within the limits of the existing building foundation and paved area around the building, therefore, no habitat is within the construction/disturbance limits of the project.

IPAC USER CONTACT INFORMATION

Agency: Oak Point Associates
Name: Steven Sargent
Address: 85 Middle Street
City: Portsmouth
State: NH
Zip: 03840
Email: ssargent@oakpoint.com
Phone: 6034314849

LEAD AGENCY CONTACT INFORMATION

Lead Agency: State of New Hampshire



1 PHOTO KEY PLAN
 CP101 SCALE: 1"=20'

EXISTING KEYNOTES: (THIS SHEET ONLY).

- | | |
|--|---|
| ① EXISTING BUILDING. | ① EXISTING FUEL SUMP PIT. |
| ② EXISTING FUEL DISPENSER BUILDING ON CONCRETE FOUNDATION. | ② POLE MOUNTED FLOOD LIGHT AND SECURITY CAMERA. |
| ③ EXISTING ASPHALT CONCRETE PAVEMENT. | ③ EXISTING GASOLINE HLA. |
| ④ EXISTING CONCRETE PAD/SLAB. | ④ EXISTING DIESEL HLA. |
| ⑤ EXISTING BOLLARD. | ⑤ EXISTING COMPRESSOR ON CONCRETE PAD. |
| ⑥ EXISTING TURF/GRASS. | ⑥ EXISTING SOIL TEST BORING. |
| ⑦ EXISTING RIPRAP. | |
| ⑧ EXISTING TRANSFORMER ON CONCRETE PAD. | |
| ⑨ EXISTING SHED. | |
| ⑩ EXISTING JIB CRANE AND FOUNDATION. | |

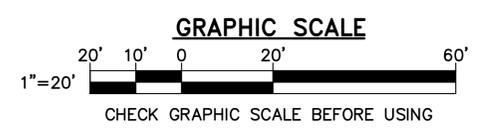
LEGEND

- | | |
|--|-----------------------------------|
| | EXISTING BUILDING LINE |
| | EXISTING EDGE OF PAVEMENT |
| | EXISTING GRADE CONTOUR LINE |
| | EXISTING UTILITY POLE |
| | EXISTING CATCH BASIN |
| | EXISTING SEWER MANHOLE |
| | EXISTING LIGHT POLE AND FIXTURE |
| | EXISTING HYDRANT |
| | EXISTING WATER SHUTOFF |
| | EXISTING BOLLARD |
| | EXISTING TRANSFORMER AND CONC PAD |

- | | |
|--|------------------------------|
| | EXISTING TREE |
| | EXISTING SOIL TEST BORING |
| | PHOTO LOCATION AND DIRECTION |

NOTES

- EXISTING CONDITIONS ARE BASED ON A LIMITED TOPOGRAPHIC SURVEY COMPLETED BY DOUCET SURVEY IN MARCH OF 2024 AND RECORD DRAWINGS.
- HORIZONTAL CONTROL IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD83. VERTICAL CONTROL IS BASED ON MEAN LOWER LOW WATER (4.62' ABOVE NAVD88).





Driveway and Air Quality Monitoring Station (Photo #1)



Existing Shed and Storage (Photo #2)



Fuel Shed (Photo #3)



Operations Building – East Elevation (Photo #4)



Operations Building – North Elevation (Photo #5)



Operations Building – North Elevation (Photo #6)



Operations Building – West Elevation (Photo #7)



Operations Building – West elevation (Photo #8)



Operations Building – South Elevation (Photo #9)



Operations Building and Grounds (Photo #10)



1978 Site Preparation (Photo #11)

Section 3



USGS LOCATION MAP

SCALE: 1"=2,000'
 DATE: 8/02/2034

PORTSMOUTH FISH PIER

1 Peirce Island Road
 Portsmouth, New Hampshire

DESIGNED BY: SES
 DRAWN BY: CRN

PROJECT: 22304.21



National Flood Hazard Layer FIRMette



70°45'14"W 43°4'46"N



1:6,000

70°44'37"W 43°4'19"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

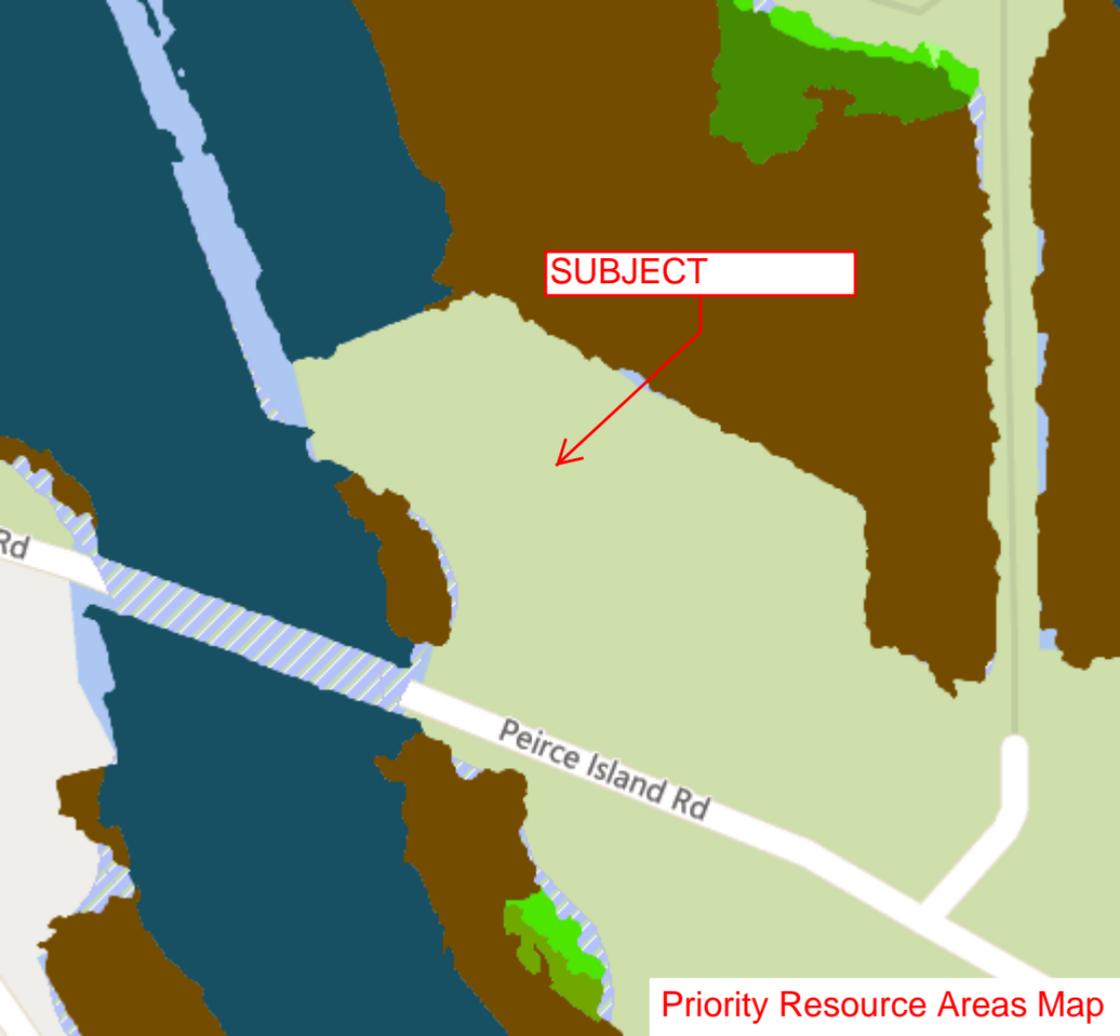
SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **4/22/2024 at 12:26 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

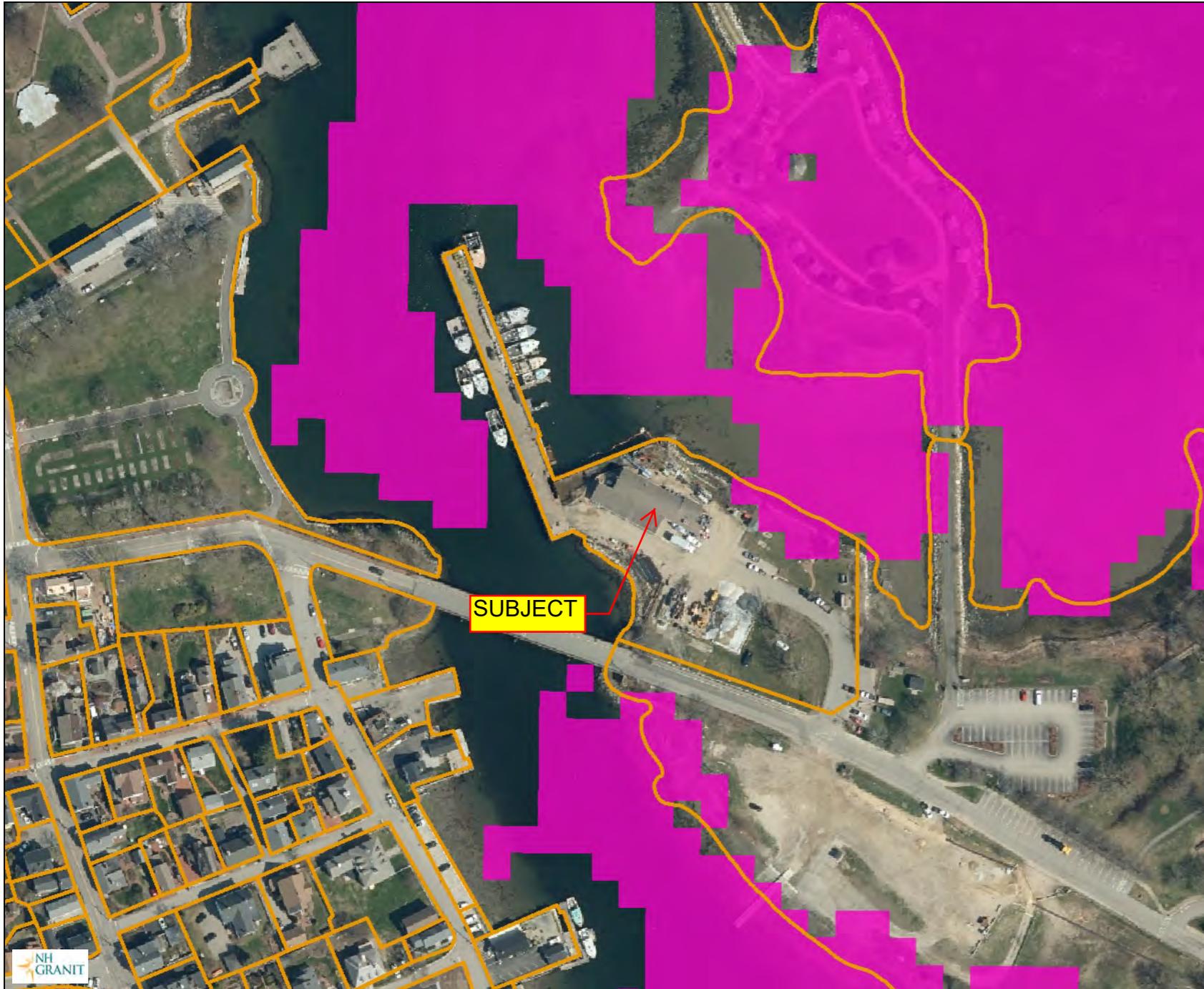


SUBJECT

Peirce Island Rd

Priority Resource Areas Map

PORTSMOUTH FISH PIER



Legend

- Parcels
- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape
- NH 2021/22 6-inch RGB (PROVISIONAL)

Map Scale

1: 1,961



© NH GRANIT, www.granit.unh.edu

Map Generated: 8/14/2024

Notes

2020 NHF&G WILDLIFE ACTION PLAN - 2021 AERIAL IMAGE



Portsmouth Fish Pier



Legend

- Additional Lines
- Eelgrass 2017
- Eelgrass 2016
- Eelgrass 2006
- Eelgrass 1996
- Eelgrass 1986
- Oyster Restoration Sites

Map Scale

1: 812



© NH GRANIT, www.granit.unh.edu

Map Generated: 8/20/2024

Notes

Coastal Layers

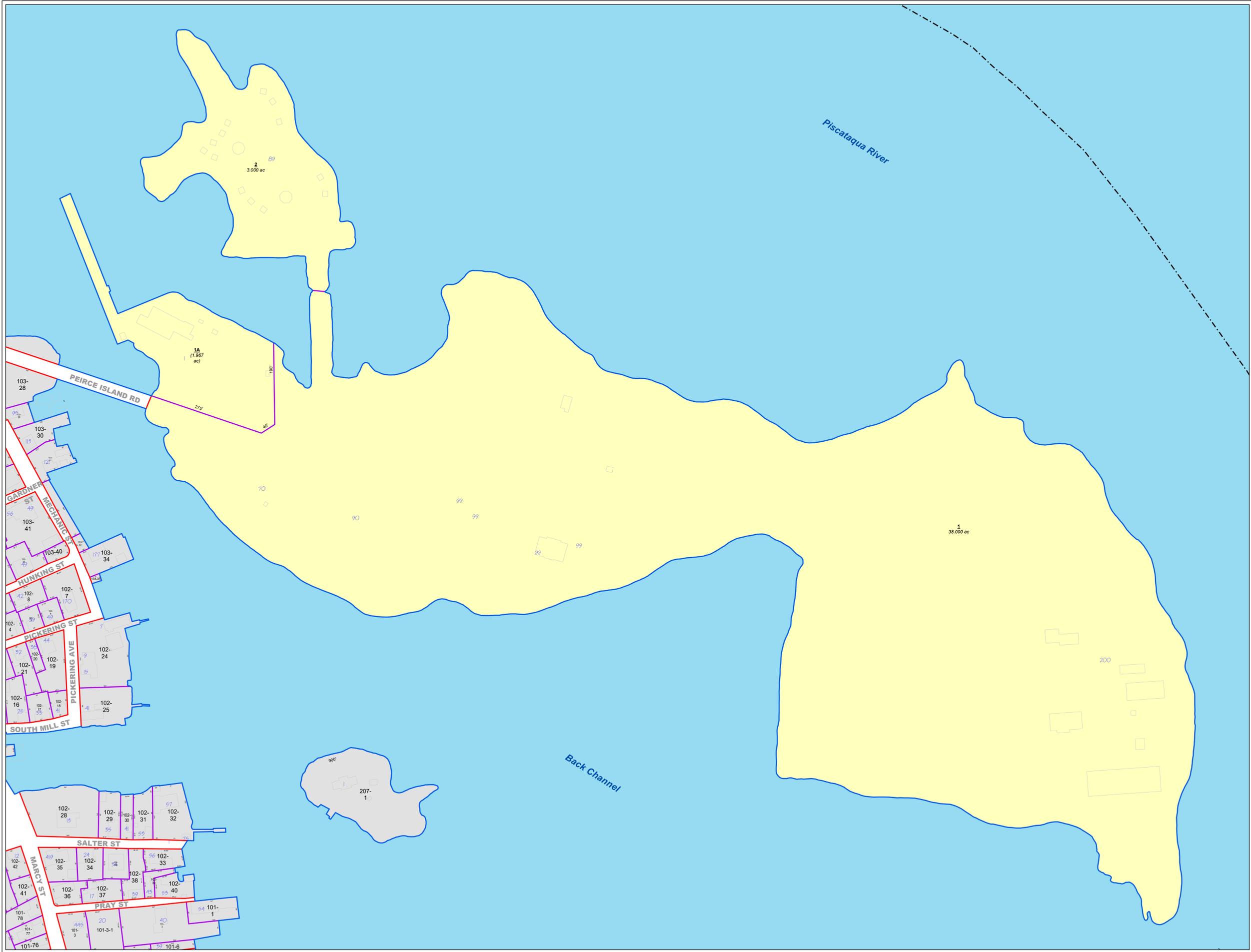
Section 4

Statement of Notification: The Subject property only has one abutter, the City of Portsmouth. The signature of the City Clerk on the application satisfies the requirement for abutter notification.

Portsmouth Commercial Fish Pier
Portsmouth, New Hampshire
Date: September 2024

LIST OF ABUTTERS

<u>Map/Lot No</u>	<u>Owner/Co-owner</u>	<u>Property Address</u>	<u>Mailing Address</u>
208/1A (Subject)	Pease Development Authority	1 Peirce Island Road	555 Market Street Portsmouth, NH 03801
208/1	City of Portsmouth	99 Peirce Island Road	PO Box 628 Portsmouth, NH 03802

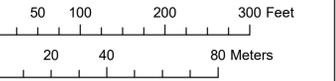


Partial Legend
 See the cover sheet for the complete legend.

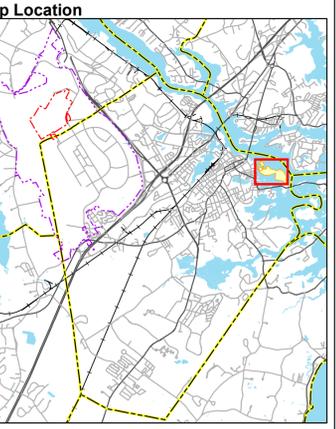
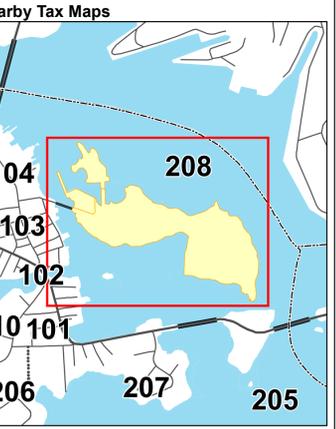
7-5A Lot or lot-unit number
 2.56 ac Parcel area in acres (ac) or square feet (sf)
 Address number
 233-137 Parcel number from a neighboring map
 68' Parcel line dimension
SIMS AVE Street name

Parcel/Parcel boundary
 Parcel/ROW boundary
 Water boundary
 Structure (1994 data)

Parcel covered by this map
 Parcel from a neighboring map (see other map for current status)



This map is for assessment purposes only. It is not intended for legal description or conveyance. Parcels are mapped as of April 1. Building footprints are 2006 data and may not represent current structures. Streets appearing on this map may be paper (unbuilt) streets. Lot numbers take precedence over address numbers. Address numbers shown on this map may not represent posted or legal addresses.



Portsmouth, New Hampshire
 2023
Tax Map 208

Appendix A – Coastal Functional Assessment

Coastal Functional Assessment

Of

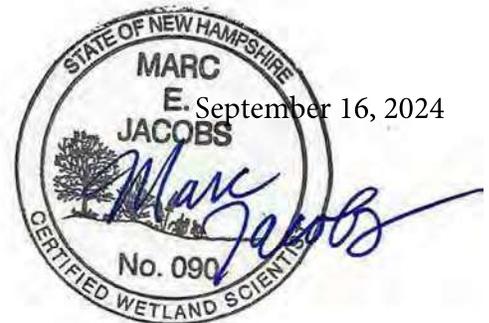
**Portsmouth Commercial Fishing Pier
One Peirce Island Road
Portsmouth, NH**

Prepared for

Oak Point Associates
85 Middle Street
Portsmouth, NH 03801

By

Marc E. Jacobs
Certified Wetland & Soil Scientist
P.O. Box 417
Greenland, NH 03840-0417



September 16, 2024

Portsmouth Commercial Fishing Pier Portsmouth, NH

Coastal Functional Assessment

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1.0 INTRODUCTION

2.0 EXISTING CONDITIONS

3.0 WETLAND FUNCTIONS & VALUES

4.0 SUMMARY AND DISCUSSION

5.0 IMPACT ANALYSIS

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- 1 – USGS Topo Locus – Kittery & Portsmouth Composite 7.5 Minute Quad at 1:24,000
- 2 – USGS Topo Locus – Kittery & Portsmouth 7.5 Minute Quad at 1:6,494
- 3 – Natural Heritage Bureau DataCheck (NHB24-1178)
- 4 – National Wetland Inventory Functions – Screen Shots
- 5 – Priority Resource Area Map
- 5A– Priority Resource Area Map
- 6 – Wildlife Action Plan Map
- 6A – U.S. Fish and Wildlife - Information for Planning and Consultation
- 7 – Eelgrass and Shellfish Map
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- 12– Ecological Integrity Worksheet
- 13 – Aerial Imagery with 500-foot Buffer
- 14 – NHDES Wetlands Functional Assessment Worksheet
- 15 – Highway Method Worksheet
- 16 – Highway Method Workbook Supplement – Appendix A
- 17 – Impervious Cover
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APPENDIX

Photo Log

Coastal Functional Assessment

Portsmouth Commercial Fishing Pier Portsmouth, NH

1.0 Introduction

As a requirement for obtaining a wetland permit from the State of New Hampshire – Department of Environmental Services (NHDES) – Wetlands Bureau for proposed improvements to an existing commercial property located adjacent to tidal resources, this Coastal Functional Assessment (CFA) is being provided to supplement the permit application as required under the NH Code of Administrative Rules Env-Wt 100-900, specifically Env-Wt 311.10. Sections surrounding text in **bold** below may be useful in completing the coastal resource worksheet and wetland permit application going forward if necessary. Other important terms are underlined. Four images obtained during recent site investigations are appended to this report.

CFA's generally provide an inventory and survey of physical attributes, such as, but not limited to, topographic position, vegetative patterns, potential wildlife habitat and soils, which then allow professional practitioners to assess functions and values that arise from those attributes. This report provides an assessment of the existing functions and values of the coastal resources at this location according to the United States Army Corps of Engineers - New England District, Highway Methodology Workbook *Supplement* – September 1999 Edition (updated in 2015) and The Method for the Evaluation and Inventory of Vegetated Tidal Marshes in New Hampshire – June 1993 (Coastal Method). This study does not specifically evaluate the potential effects of global climate change, predicted sea level rise and associated marsh migration or tidal surge on the functions and values of the wetlands at this location, as the effects of those phenomena cannot be properly or fully assessed at this time.

This assessment evaluates fourteen (14) functions and values for this location based upon current conditions. The functions and values of a wetland or adjacent wetlands may be altered, or more specifically, the effectiveness of a wetland or adjacent wetlands to provide a particular function may be altered (increased or decreased) as a result of modifications to adjacent uplands and other properties, impacts to wetlands elsewhere on site or other development within the watershed.

2.0 Existing Conditions

The area-of-interest (AOI) generally involves tidally influenced lands subject to the ebb and flow of the Piscataqua River. These resources are adjacent to and include property known as the Portsmouth Commercial Fishing Pier, which is also developed with a wood frame structure that contains ice making machines and storage. The original structure was constructed in 1978 and was 2,000 square feet (SF) in size but has been expanded on two occasions. The structure is currently 5,075 (SF) in size.

Attached are copies of the United States Geological Survey topographic map upon which the subject property is identified. Refer to Attachments 1 and 2, which represent composites of the Kittery and Portsmouth 7.5 Minute quadrangles at two different scales. The property street frontage is on Peirce Island Road. The latitude and longitude of the subject are 43° 04' 32.65" and 70° 44' 56.09" respectively.

The site is bounded by the Piscataqua River to the west and north. At low tide, areas of the river between the property and Four Tree Island Park represent exposed mud flats. The site is bounded to the east by the asphalt parking for Four Tree Island Park. South of Peirce Island Road is a gravel parking area that supports a public recreational boat launch. Distant land use to the north involves Four Tree Island Park and Portsmouth Naval Shipyard across the river. Prescott Park and Strawberry Banke lie to the west, across the river, as do residential homes. The Portsmouth Outdoor Pool and Waste Water Treatment Facility lie further to the east on Peirce Island.

The property supports considerable impervious surfaces, which completely surround the existing structure, although there are two areas of turf, which we estimate represent ±25 percent of the land surface. The turf areas are also being used for parking vehicles. The property supports three mature deciduous trees and one small coniferous tree. The largest trees, located near the road, include poplar (*Populus* sp.) while the trees and shrubs along the water include black locust (*Robinia pseudoacacia*). Norway maple (*Acer platanoides*) shrubs are also represented along the water. Black locust and Norway maple are considered invasive. Field observations for this CFA were made on September 10, 2024.

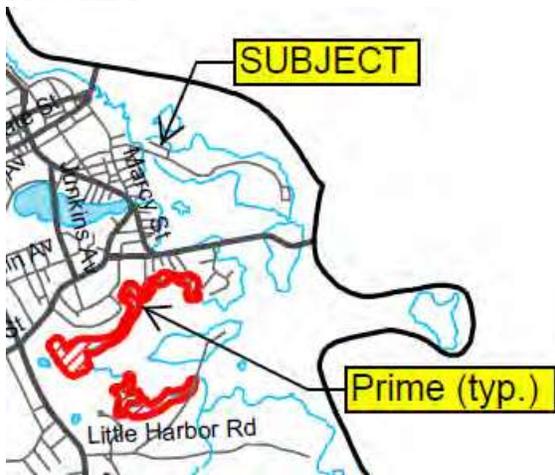
A population of marsh elder shrubs (*Iva frutescens*) was observed straddling the highest observable tide line (HOTL) around Four Tree Island. No marsh elder was observed adjacent to the subject property however. Marsh elder is considered a threatened species in New Hampshire per an inquiry to the New Hampshire Natural Heritage Bureau (NHB-24-1178) regarding **rare, threatened or endangered species**. Refer to Attachment 3.

As previously mentioned, mud flats which are exposed at low tide exist immediately adjacent to the site. Classification of the mud flats according to the National Wetlands Inventory (NWI) and the Cowardin *et.al.*¹ system is Estuarine, Intertidal, Unconsolidated Shore, Mud, Irregularly Exposed. (E2US3M). Classification of the river is Estuarine, Unconsolidated Bottom, Subtidal (E1UBL). Refer to Attachment 4. We have included maps for several functions that the NWI has indicated are performed by the wetlands at this location. These maps were captured as screen shots (as were others) for technical / computing reasons. Refer to Attachment 4.

Tidal resources are considered **Priority Resource Areas (PRA)** according to Env-Wt 103.66 (f). There are no prime wetlands on or immediately adjacent to the subject properties. Prime wetlands are those wetlands that receive additional protection under state law. Portsmouth has municipally designated prime wetlands recognized by the NHDES. No portion of AOI is identified as prime wetlands. Refer to Attachments 5 and 5A as well as Figure 1 below.

¹ Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. Jamestown, ND: Northern Prairie Wildlife Research Center Home Page. <http://www.npwrc.usgs.gov/resource/1998/classwet/classwet.htm> (Version 04DEC98).

FIGURE 1



A review of information regarding the NH Fish and Game Department - 2020 Wildlife Action Plan (WAP) indicates that portions of the AOI, namely the river, are comprised of highest ranked habitat in the state, which is depicted in magenta on the attached map. Refer to Attachment 6. Also, we have attached the results of the determination by the U.S. Fish and Wildlife Service per their Information for Planning and Consultation (IPaC) system. The IPaC identifies the potential for the following endangered (or candidate / proposed) species and / or their habitat: Roseate Tern (*Sterna dougallii dougallii*), Monarch Butterfly (*Danaus plexippus*), Northern Long-eared Bat (*Myotis septentrionalis*) and Tricolored Bat (*Perimyotis subflavus*). Refer to Attachment 6A.

Remote sensing and consultation with various mapping web sites indicate that the area does not contain any **eel grass** (*Zostera* sp.) and current or historic **shellfish beds**. Our direct observations generally confirm the absence of these resources. A report generated by query to the National Oceanographic and Atmospheric Administration's essential fish habitat (EFH) web site is attached. Refer to Attachments 7 and 8.

No portion of the property is located within **100-year floodplain**. Not coincidentally, regarding **predicted seal level rise**, the projection for a 2-foot rise in sea level shows no additional flooding from tides or associated potential for **salt marsh migration** for the 0.5 meter (± 20 inch) sea level rise scenario. It is worth noting however that at mean higher high water, there is some flooding during a 1% annual chance flood event under the 2-foot sea level rise scenario. Refer to Attachments 9, 10, 10A and 11.

2.1 Proposed Conditions

The project proposes to demolish the entire structure and replace with a structure 2,000 SF in size, which is the same size, and which will be located in the same foot print, as the original building constructed in 1978. The slab for the portion of the current structure that will not be replaced will be demolished to 1-foot below finish grade, backfilled and paved.

3.0 Wetland Functions and Values

Wetland functions are self-sustaining properties and physical attributes of wetlands that exist without regard to subjective human values. Wetland values, now commonly referred to as ecosystem services, are benefits for humans and the environment which are derived from these functions and physical attributes. Ecological Integrity assessed utilizing the Coastal Method and the functions and values assessed by the US Army Corps of Engineers Highway Methodology are identified below with a brief explanation of what each function and value considers.

3.1 Functions

1 - Ecological Integrity – The human development and built environment affecting coastal resources and surrounding environment.

3 - Fish & Aquatic Life Habitat – The potential for waterbodies associated with wetlands to provide suitable habitat for fish or shellfish.

4 - Flood Storage – The potential for a wetland to reduce flood damage by attenuating floodwaters through storage and desynchronization of peak flows.

5 - Groundwater Recharge/ Discharge – The potential for a wetland to recharge water to an aquifer or discharge groundwater to the surface.

7 - Nutrient Trapping / Retention & Transformation – The effectiveness of wetlands to protect water quality and prevent adverse effects associated with excess nutrients in a watershed.

8 - Production Export – The ability of the wetland to produce food for humans or other organisms.

10 - Sediment Trapping – The potential for the wetland to protect water quality by trapping sediments, toxicants and pathogens.

11 - Shoreline Anchoring – The ability of a wetland to stabilize stream banks or shorelines against erosion.

14 - Wetland-dependent Wildlife Habitat – The effectiveness of the wetland to provide suitable habitat for important wetland wildlife.

3.2 Values

2 - Educational Potential – The value of the wetland as an outdoor classroom.

6 - Noteworthiness – The effectiveness of the wetland in supporting rare, threatened or endangered species.

9 - Scenic Quality – The visual or aesthetic qualities of a wetland.

12 – Uniqueness / Heritage – The value relating to the wetlands suitability to provide special values such as unique geologic features, archaeological sites and/or vernal pool habitat.

13 - Wetland-based Recreation – The suitability of the wetland and any associated waterbodies to provide consumptive and non-consumptive recreational opportunities.

3.3 Study Area

Selection of an appropriate study area is crucial to the outcome of any CFA. Determination of suitable study areas can be somewhat subjective depending upon the criteria used to define the study area, especially since wetlands are natural systems and do not recognize political boundaries such as property or town lines and because all wetland and aquatic systems have variations in physical attributes within an otherwise seemingly discreet wetland area. Wetland systems are frequently comprised of numerous wetlands with differing classifications, each having differing physical attributes and therefore exhibiting differing functions and values. Altering the size of a study area can therefore influence the physical attributes which are assessed, affecting the interpretation or perception of functions and values and ultimately the results of an assessment. Further complicating the definition of a study area, and thus the CFA, some considerations are focused on the watershed level attributes while others target individual wetlands or aquatic resources. The results of this CFA generally apply to jurisdictional resources and land within a 500-foot radius of the subject property. The study area is identified on Attachment 13 and is well defined in this particular case. Data forms for Ecological Integrity and the functions and values assessed utilizing the Highway Methodology were completed and are included herein (Attachments 12, 14 and 15). It is worth noting that, with the possible exception of the pier (where it could be argued that resources extend beneath), the subject property does not actually possess the jurisdictional resources that are assessed by this CFA. Rather, the jurisdictional resources evaluated by this CFA are located immediately adjacent to, and in some cases, such as with most of the salt marsh resources, across the water from the subject.

4.0 SUMMARY AND DISCUSSION

The Highway Methodology identifies 13 primary functions and values which can potentially be ascribed to wetlands and other resources. The presence of these functions and values provide benefits for society and the environment.

It can be difficult to precisely implement many of the considerations / qualifiers provided in Attachment 16 since the river and other associated resources are part of a much larger contiguous wetland and aquatic system. It is accepted however that conclusions about the effectiveness of a wetland study area to provide a particular function can change depending upon a host of factors which include the assessment area involved and the relative juxtaposition with other wetland resources. Conclusions regarding the functions and values associated with this wetland study area are briefly summarized below by principal function / value and in Table 1.

Where functional assessment is required as part of the permitting process, the State of New Hampshire also requires the assessment of each wetland for Ecological Integrity. Note that the Highway Methodology does not consider Ecological Integrity. Ecological Integrity is a function identified in NH RSA 482-A: Fill and Dredge in Wetlands, specifically Section 482-A:2 XI. This functional wetland assessment utilizes the field criteria in the Method for Evaluation and Inventory of Vegetated Tidal Marshes in New Hampshire (Coastal Method), June 1993, to assess this function. A Coastal Method data sheet for the Ecological Integrity function is attached as well as a supporting aerial image. Refer to Attachments 12 and 13.

TABLE 1 TALLY OF PRINCIPAL FUNCTIONS / VALUES

FUNCTION / VALUE	PRINCIPAL
Ecological Integrity 1	Yes
Educational Potential 2	Yes
Fish & Aquatic Life Habitat 3	Yes
Flood Storage 4	Yes
Groundwater Recharge / Discharge 5	No
Noteworthiness 6	Yes
Nutrient Trapping / Retention & Transport 7	Yes
Production Export (Nutrient) 8	Yes
Scenic Quality 9	Yes
Sediment Trapping 10	Yes
Shoreline Anchoring 11	Yes
Uniqueness / Heritage 12	Yes
Wetland-based Recreation 13	Yes
Wetland-dependent Wildlife Habitat 14	Yes
TOTAL (14)	13

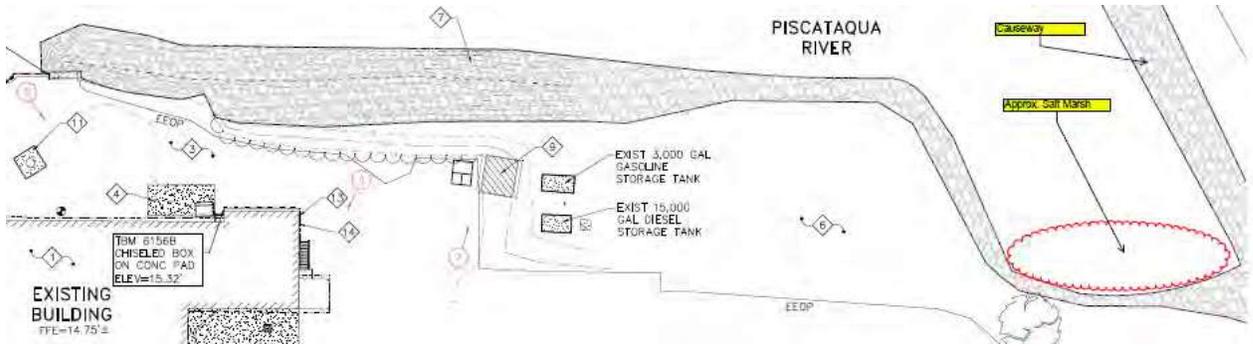
4.1 Ecological Integrity

Ecological Integrity (EI) at this location is determined in two parts: a) The EI of the Ecological Unit (EU) and b) EI of the Zone of Influence on the EU. The assessment of the EU considered the river, including tidal flats and any salt marsh as a whole while EI of the Zone of Influence also considers all the upland within the 500-foot circle around the subject property. Attached is an aerial image which depicts a 500-foot radius circle around the subject property. Refer to Attachment 13. Regarding the EI of the EU we considered the observations below. Regarding the EI of the Zone of Influence we considered questions 1B - 4B to be straightforward, requiring no additional discussion or clarification. Refer to Attachment 12.

Question 1A

There is no salt marsh that actually falls on the subject property. Most of the salt marsh in the area is located adjacent to Four Tree Island. However, salt marsh is located to the east of the subject, between the subject and the causeway to Four Tree Island. We did not observe any common invasive species in the salt marsh. See Figure 2 below.

FIGURE 2



Questions 2A and 3A

The access causeway to Four Tree Island is Mill is man-made and is not submerged during any tides (with the possible exception of extreme storm tides) and thus represents a restriction to tidal flow. The degree of restriction is not severe.

Question 4A

The lateral extent of salt marsh in the area is minimal. No ditching was observed within salt marshes.

EI scoring for EU and Zone of Influence can each be a maximum of 1.0. Scores closest to 1.0 indicate higher function. The EI score for the EU is 0.875 and the score for the Zone of Influence 0.3. Therefore, the overall EI score for the EU is considered high while the Zone of Influence is considered low. We considered EI to be a principal function of this study area, although the Zone of Influence is detracting from the overall EI score due to the commercial development in the area.

4.2 Educational Potential (Educational / Scientific Value)

All ecological resources possess some educational potential / suitability and the salt marsh and mud flats adjacent to this location are no exception. The numerous public properties and parking areas on Peirce Island provide excellent access. For these and other reasons, we consider educational potential to be a principal function of the study area.

4.3 Fish and Aquatic Life Habitat (Fish & Shellfish Habitat)

The EFH mapper report from the National Oceanographic and Atmospheric Administration identifies seventeen (17) species in the area but does not identify any habitat areas of particular concern (HAPC) or EFH areas protected from fishing. Aquatic organisms such as worms are likely present in the mud. It is also likely that some shellfish are present but there are no shellfish or eelgrass beds mapped adjacent to the structure which is proposed for replacement. The NWI rates the area high for fish and aquatic invertebrate habitat. In conclusion, fish and aquatic habitat is a principal function of this study area. Refer to the NWI screen shot for this function (Attachment 4) and Attachment 8.

4.4 Flood Storage (Floodflow Alteration)

The NWI ranks the area high for coastal storm surge detention but indicates that surface water detention is low or absent. The salt marsh is small within the study area so flood abatement capabilities are minimal but when all the attributes are taken together we consider flood storage functions to be principal at this location. Refer to the NWI screen shot for this function (Attachment 4).

4.5 Groundwater Recharge (Groundwater Recharge / Discharge)

Groundwater recharge and discharge are not functions that are applicable to tidal resources per se. Streamflow maintenance would imply groundwater discharge but there is none taking place in the study area and the attached NWI streamflow maintenance map confirms this. Groundwater recharge or discharge and streamflow maintenance are not principal functions of the study area. Refer to the NWI streamflow maintenance screen shot (Attachment 4).

4.6 Noteworthiness (Endangered Species Habitat)

The NHB identified a (plant) species of concern at this location, marsh elder (*Iva frutescens*), and our investigations confirm its presence along the HOTL and interface of the salt marsh adjacent to Four Tree Island but not adjacent to the subject property. It is worth noting that the NHB map included in their report did not identify any populations of marsh elder on Four Tree Island. The NWI also identifies regionally significant unique, uncommon or highly diverse plant communities, including adjacent to Four Tree Island. For these reasons, noteworthiness is considered a principal function of this study area. Refer to the NHB report (Attachment 3) and NWI screen shot (Attachment 4).

4.7 Nutrient Trapping / Retention & Transformation (Nutrient Removal)

The area-of-interest receives tidal flow which often carries nutrients into salt marshes providing for high primary productivity through the transformation of the nutrients, making this a principal function. Tidal marshes are also known to be proficient at sequestering carbon. The NWI ranks the area moderate for nutrient transformation. Refer to the NWI nutrient trapping as well as carbon sequestration screen shots (Attachment 4).

4.8 Production Export

Fish, crabs, worms and other benthic organisms are present and provide food for higher trophic levels making production export a principal function of the area. There is small area of saltmarsh immediately adjacent to the site.

4.9 Scenic Quality (Visual Quality/Aesthetics)

Due to the presence of nearby Four Tree Island, and the viewing locations and photographic opportunities it provides, as well as the juxtaposition of salt marsh, mud flats and open water areas, scenic quality is a principal function of this area.

4.10 Sediment Trapping (Sediment / Toxicant Retention)

Salt marsh provides opportunity for sediments brought in by the tides, and any pollutants adsorbed to those sediments, to drop out of the water column and be trapped by the dense vegetation. The protected cove created by the causeway to Four Tree Island also promotes settling of particulates. Therefore, sediment trapping is a principal function of the area. Refer to the NWI screen shot for the sediment trapping function (Attachment 4).

4.11 Shoreline Anchoring (Sediment / Shoreline Stabilization)

The shoreline in this area is well stabilized with hard armoring such as riprap or sheet piles or, to a lesser degree, vegetated with salt marsh grasses. There is ample opportunity to provide this function by virtue of landscape position and the HOTL is stable within the study area. The NWI also ranks the study areas as functioning moderately for shoreline anchoring. We consider shoreline stabilization to be a principal function. Refer to the NWI shoreline stabilization function screen shot (Attachment 4).

4.12 Uniqueness / Heritage

Salt marshes are inherently noteworthy given the special ecological role they play in a coastal ecosystem. Due to New Hampshire's short coastline, relative to other nearby states, salt marsh habitats are particularly noteworthy. The juxtaposition of the study area to the fish pier, Four Tree Island, Strawberry Banke, Prescott Park and the public recreational boat launch is also unique. The gundalow is also moored nearby. Uniqueness / Heritage is therefore a principal function of this study area.

4.13 Wetland-based Recreation (Recreation)

The study area is suitable for non-consumptive recreational activities, especially photography, bird watching, boating and wildlife observation. Consumptive recreation such as fishing is possible. Public access with ample parking is available. Potential opportunities for other consumptive recreation such as waterfowl hunting are unlikely due to the proximity of residential and commercial development. Wetland-based recreation is a principal function provided by this study area.

4.14 Wetland-dependent Wildlife Habitat (Wildlife Habitat)

The NWI ranks the riverine portions of the study area high for waterfowl and waterbird habitat and the areas that generally correlate to mud flats as moderate for other unspecified wildlife. The immediate shoreline of Four Tree Island ranks high for other unspecified wildlife. Our casual observations of several species of shore birds and waterfowl during our site visit confirms this designation. The 2020 Wildlife Action Plan also identifies the area as Highest Ranked Habitat. Refer to the two NWI wildlife function screen shots (Attachment 4). For these reasons, wetland-dependent wildlife habitat is a principal function of the study area based upon a review of available resources and direct observation.

4.15 Other

The assessment of wetland functions and values can be an inherently subjective process. The Highway Methodology strives to eliminate potential bias through implementation of a qualitative and descriptive approach to functional assessment by requiring the evaluator to review a list of considerations and qualifiers for each function or value. The list of considerations / qualifiers is referred to as Appendix A and is included as Attachment 16.

For those interpreting this report, caution needs to be applied when deriving conclusions about impact assessment when using the findings within. Additionally, do not be easily tempted to rank or compare the wetlands or other jurisdictional resources described within this report against other off-site wetlands and resources. Ranking wetlands numerically or rating wetlands low, medium or high is tempting but is inappropriate and implies a level of accuracy or understanding of wetlands and functional assessment methodologies which may not exist.

5.0 IMPACT ANALYSIS

The existing land use at this location is commercial and will remain so, and change very little if at all, after project completion. The structure will become smaller and the extent of asphalt parking will increase. These uses already take place at the site therefore we anticipate no change in the effect on the principal functions and values of the adjacent coastal resources from the proposed project. There may be short-term temporary noise impacts for wildlife considerations during construction. Depending upon the timing and duration, construction and noise impacts may also temporarily affect the use, or more specifically, enjoyment of, Four Tree Island.

The project will result in roughly 3,075 SF of additional paved parking which will eliminate the need to park on turf areas. (Parking on turf creates compaction, resulting in changes in the runoff coefficient and characteristics.) The additional asphalt should have no impact on the volume of runoff, and may result in a slight decrease in the peak rate of runoff. However, the change in type of impervious surface – from roof to asphalt – and the associated increase in parking and vehicles, could have an effect on the quality of runoff leaving the site.

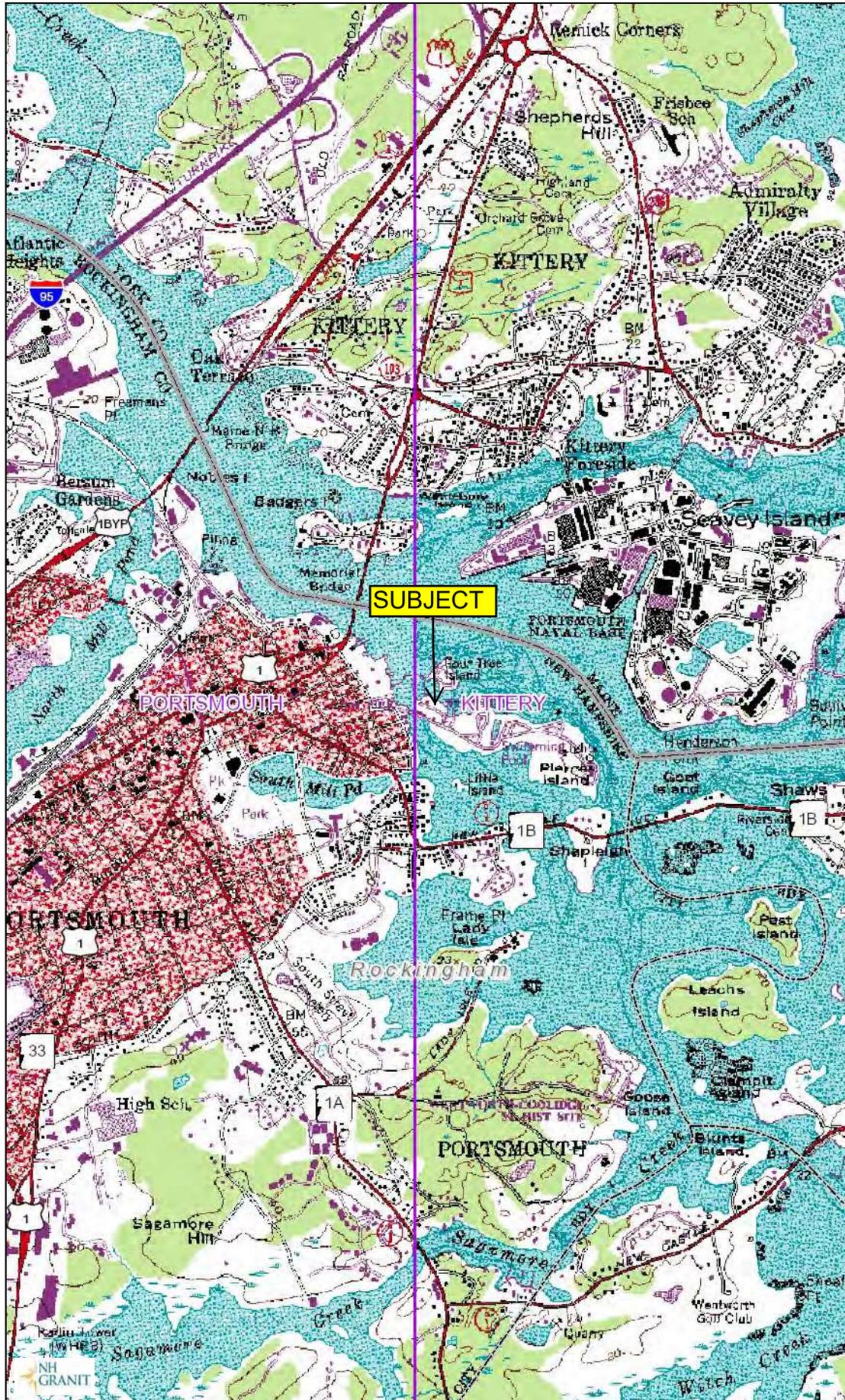
We do not expect the project as designed to have any adverse impacts on the other functions, ecosystem services and values being provided by the study area. For example, the coastal resources that are the subject of this CFA involve 100-year flood plain, which is immediately adjacent to the project footprint, but the project will not involve 100-year flood plain directly.

An analysis of available vacant properties in the area was not completed because the structure and commercial fishing are intimately linked with the existing pier, which does not exist elsewhere in this area.

Portsmouth Commercial Fish Pier
One Peirce Island Road
Portsmouth, NH
September 16, 2024

ATTACHMENTS

STATE FISH PIER - PORTSMOUTH, NH



Legend

- 7.5-Minute
- State
- County
- City/Town

ATTACHMENT 1

Map Scale

1: 24,000

© NH GRANIT, www.granit.unh.edu

Map Generated: 8/30/2024



Notes

KITTERY, ME & PORTSMOUTH, NH
QUADRANGLES



STATE FISH PIER - PORTSMOUTH, NH



Legend

- 7.5-Minute
- State
- County
- City/Town

ATTACHMENT 2

Map Scale

1: 6,494

© NH GRANIT, www.granit.unh.edu

Map Generated: 8/30/2024



Notes

KITTERY, ME & PORTSMOUTH, NH
QUADRANGLES





ATTACHMENT 3

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Steven Sargent, Oak Point Associates
85 Middle Street
Portsmouth, NH 03840
ssargent@oakpoint.com

From: NHB Review
NH Natural Heritage Bureau
Main Contact: Ashley Litwinenko - nhbreview@dncr.nh.gov

cc:

Date: 04/25/2024 (valid until 04/25/2025)
Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game
Permits: OTHER - Project evaluation

NHB ID: NHB24-1178

Town: Portsmouth
Location: 1 Pierce Island Road

Project Description: The project being evaluated includes demolition of the existing 5,100 square foot building, reconstruction of a portion of the building (1,750 sf) on the existing foundations, and paving the remaining former building area.

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: If all work is within existing paved areas then NHB has no concerns. If any work is proposed along the shoreline, then please contact NHB with proposed plans and representative photos during the growing season of the shoreline proposed to be impacted.

NHFG Comments: No comments at this time.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project.

Please see the map and detailed information about the record(s) on the following pages.

Plant species	State ¹	Federal	Notes
marsh elder (<i>Iva frutescens</i>)	T	--	Threats are primarily alterations to the hydrology of the wetland, such as ditching or tidal restrictions that might affect the sheet flow of tidal waters across the intertidal flat, activities that eliminate plants, and increased input of nutrients and pollutants in storm runoff.

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.

NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178



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NHB24-1178

EOCODE:

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New Hampshire Natural Heritage Bureau - Plant Record

marsh elder (*Iva frutescens*)

Legal Status

Federal: Not listed
State: Listed Threatened

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Excellent quality, condition and landscape context ('A' on a scale of A-D).
Comments on Rank: This rank may be for the state rather than relative to others in the region.

Detailed Description: 2023: Transplant, Lady Isle: 10 plants transplanted to this location from the west side of both ends of the Lady Isle Bridge (old locations not mapped in database). 2021: Lady Isle: Plants intermittently distributed along the westernmost portion of the island. 2020: Tidal Pool: Species observed in flower. 2017: Leachs Island: Several thousand plants spread along 800+ feet of shoreline. 10-20% dieback, 10-15% yellowing, 65-80% normal to vigorous. Aphids observed on 80% of clumps. 2016: Peirce Island: Additional subpopulations located, raising total number of plants to over 600. Plants appear to be in much better health than 2014, with all individuals in fruit and in good vigor. Shaws Hill: Several clumps over an area approximately 30 x 15 feet. Estimated at over 200 individuals. Tidal Pool: Plants in 3 areas along shoreline near tidal pool. 2014 Peirce Island: Over 500 plants were observed, all stunted, with approximately 50-60% dead stems, mostly confined to the upper portions of the plants. 1996: Constant observation since 1953 reported, including all stages of phenology and age structure. 1982: Good clump observed.

General Area: 2023: Transplant, Lady Isle: Plants transplanted next to a known marsh elder (*Iva frutescens*) stand. This area has full-sun exposure and soil composition that supports this species. The transplant site is just above the highest observable tide line and is not subject to prolonged periods of flooding and saturation. The site is adjacent to a well-established, naturally wooded, upland buffer bordering a salt marsh with no nearby development. The invasive plants Japanese barberry (*Berberis thunbergia*), glossy buckthorn (*Frangula alnus*), and Japanese honeysuckle (*Lonicera japonica*) were present at the site and removed along with large overhanging oak (*Quercus sp.*) limbs. 2017: Leachs Island: Upper edge of brackish marsh/rocky shore. Plants absent from areas with broader expanse of marsh. Rocks present in most areas where the plants are growing. Associated species include black oak (*Quercus velutina*), saltmarsh rush (*Juncus gerardii*), sea-blite (*Suaeda sp.*), hastate-leaved orache (*Atriplex cf. prostrata*), smooth cordgrass (*Spartina alterniflora*), Carolina sea-lavender (*Limonium carolinianum*), and seaside plantain (*Plantago maritima ssp. juncooides*). 2016: Peirce Island: Population forms a narrow band immediately above the highest observed wrack line along the shore. Associated upland species include staghorn sumac (*Rhus hirta*), autumn-olive (*Elaeagnus umbellata var. parvifolia*), Asian bittersweet (*Celastrus orbiculatus*), and speckled alder (*Alnus incana ssp. rugosa*). The saline areas downslope

NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178

EOCODE:

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of the marsh elder contained over 50% unvegetated substrate, as well as a mixture of cordgrass (*Spartina* sp.) and saltgrass (*Distichlis spicata*). Shaws Hill: Surrounding land use is developed. All plants below highest observable tide line in **high salt marsh**, located among saltmeadow cordgrass (*Spartina patens*), smooth cordgrass (*Spartina alterniflora*), and seaside goldenrod (*Solidago sempervirens*). Tidal Pool: Sagamore Creek/Great Bay shoreline, with smooth cordgrass (*Spartina alterniflora*), saltmarsh rush (*Juncus gerardii*), saltmeadow cordgrass (*Spartina patens*), seaside goldenrod (*Solidago sempervirens*), and sea-blite (*Suaeda* spp.). 1996: On shores of several islands and peninsulas in the more or less enclosed bay system. Associated plant species: *Solidago sempervirens* (seaside goldenrod), *Juncus gerardii* (salt marsh rush), *Spartina patens* (salt-meadow cord-grass), *Triglochin maritimum* (arrow-grass), *Elymus virginicus* (Virginia wild rye), *Atriplex patula* (narrow-leaved orach), and *Artemisia vulgaris* (common mugwort). Substrate: gravel and marsh peat and muck. 1982: On shore at Pleasant Point.

General Comments: 2023: Transplant, Lady Isle: Bill Nichols the State botanist noted this may not have been the best location for the transplant and suggested the plants should have been planted within the high salt marsh along its upper edge where inundated by spring (full and new moon) tides. He noted the marsh elder likely would have had a much better chance to survive if transplanted in with the marsh graminoids below the oak seedlings mixed in with the graminoids. 2021: Lady Isle: Site is referred to Belle Isle on reporting form, and appears as Belle Island on some maps, but is called Lady Isle on USGS topo. 2016: Peirce Island: "The population currently appears to be in good health, although the results of the June 2014 surveys indicated that there may be some intermittent pressure on this population. The propensity of this species to grow in a very narrow band along the tide line does not allow for rapid adaptation to changing sea levels, storm events, or polluted runoff that a larger, robust population may resist. If sea levels gradually rise as expected, the marsh elder will be unable to move inland due to a small but steep cut bank that forms the upland break adjacent to the marsh elder population. The remaining subpopulations may also be getting shaded by the adjacent upland vegetation, which appears to be encroaching on the shoreline. This vegetation is comprised of large shrub species and the invasive Oriental bittersweet that is capable of overtaking the native plants in the area."

Management Comments: 2023: Transplant, Lady Isle: Ten plants transplanted to this site next to an existing marsh elder population. The transplant site was prepared by removing invasive species and their root systems and removing large overhanging oak limbs to allow for greater sun penetration. Ten holes were dug to accommodate the roots masses of the shrubs to be transplanted. To avoid transplant shock by way of heat exposure, the transplanting occurred on an overcast day with intermittent showers and breaks from the sun where the temperature did not exceed 68 degrees Fahrenheit. To avoid damage to the root system, a large pry bar was used. This allowed the transplant team to get well beneath the entire root system and loosen the surrounding soil with only minimal damage to the root systems. The shrubs were then extracted by hand from the substrate. Immediately following removal, team members placed the root mass of the shrubs in a bucket and they were individually walked to the transplant site. The holes dug the previous day were reworked to ensure they accommodated each plant and the root ball was then inserted into the ground so the crown of the plant rested at

NHB DataCheck Results Letter

NH Natural Heritage Bureau

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NHB24-1178

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the soil line. To facilitate maximum water uptake, wet soils at the transplant site were used to cover the root masses. Dryer soils from the transplant area were used to backfill any remaining void spaces. Once the plants were in the ground and the parent soil material was backfilled, natural mulch and duff in the surrounding area was used to cover the surface of ground surrounding the transplants. Rocks were also placed around each plant to increase stability during high tides. Lime green ribbon was placed on the transplants so they can be more readily differentiated from the surrounding landscape during follow-up inspections. Following the transplant the marsh elder will continue to be monitored for three years and will be watered during any abnormally dry conditions.

Location

Survey Site Name: Little Harbor, back channel

Managed By: Little Harbor Trust

County: Rockingham

Town(s): Portsmouth

Size: 61.6 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

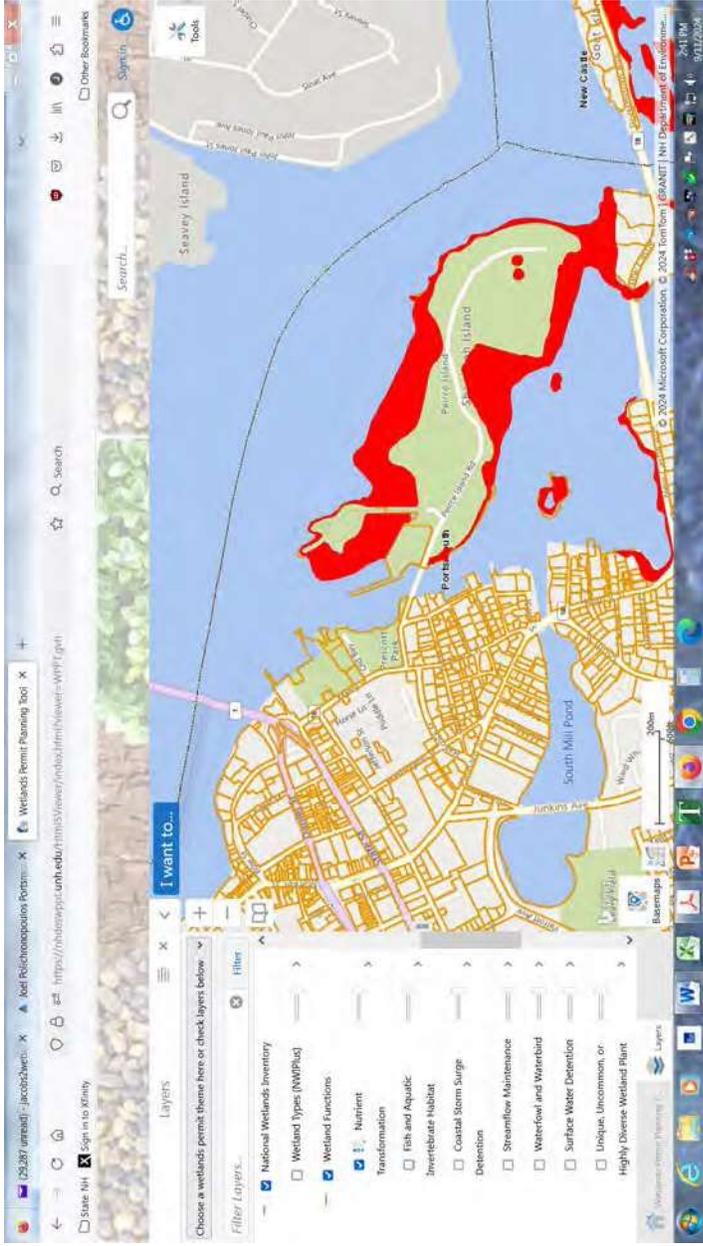
Directions: 2021: Lady Isle: Shoreline along western end of Lady Isle. 2017: Leachs Island: Island in New Castle only accessible by boat. Plants observed on south shore of island. 2016: Peirce Island: Along the southern shore of Peirce Island, along the edge of a small cove west of the wastewater treatment facility. Shaws Hill: Take Laurel Lane off New Castle Avenue, bear left onto driveway right-of-way servicing 51A & 51B Laurel Lane. At end of right-of-way, 51B will be located on the right. Tidal Pool: Along Sagamore Creek shoreline on Creek Farm Reservation property in Portsmouth. In the vicinity of Rte. 1B which encircles the Little Harbor back channel from Portsmouth to New Castle and Rye. Many of the sites are visible only by boat.

Dates documented

First reported: 1953

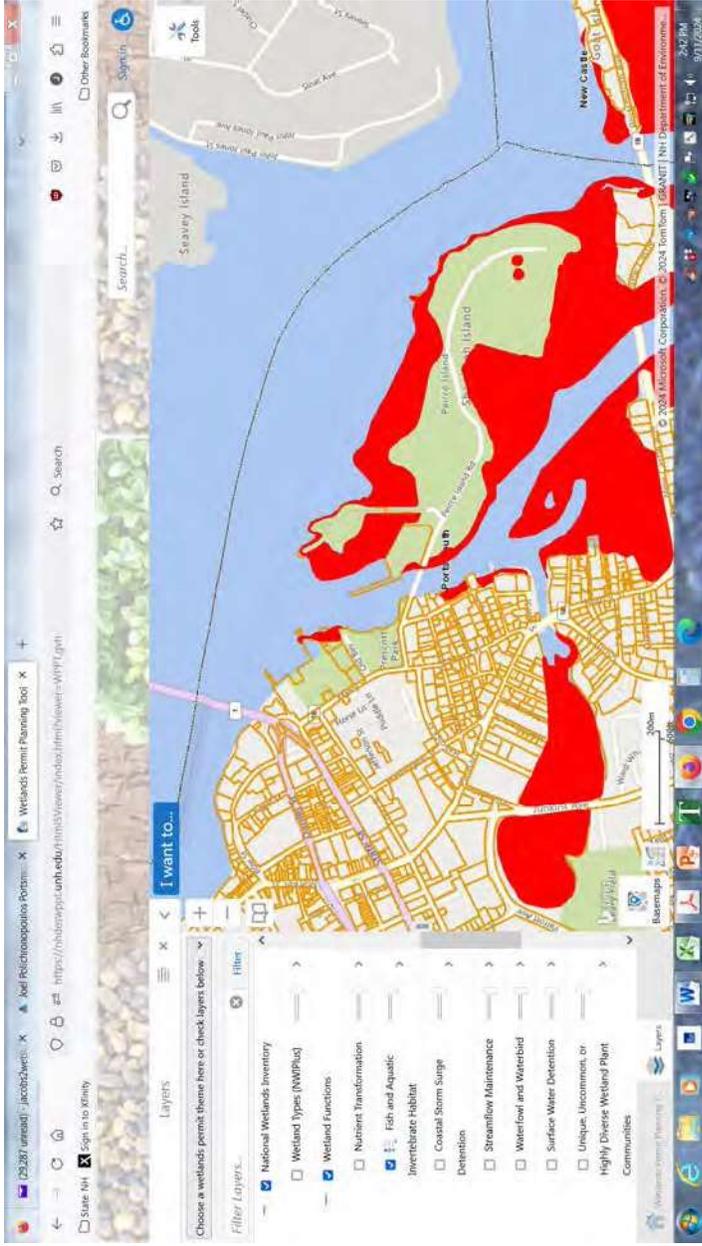
Last reported: 2023-06-07

ATTACHMENT 4



Legend

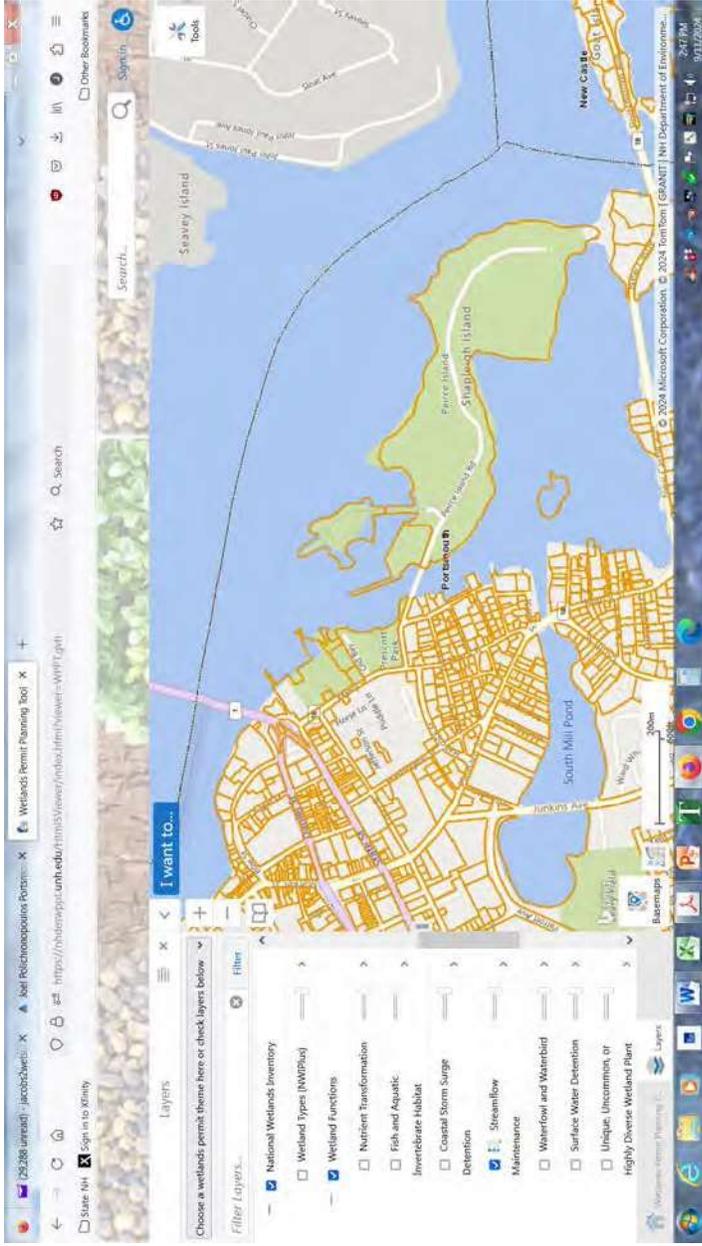
- NH Parcels
- Additional Lines
- City/Town
- Nutrient Transformation
 - High
 - Moderate



Legend

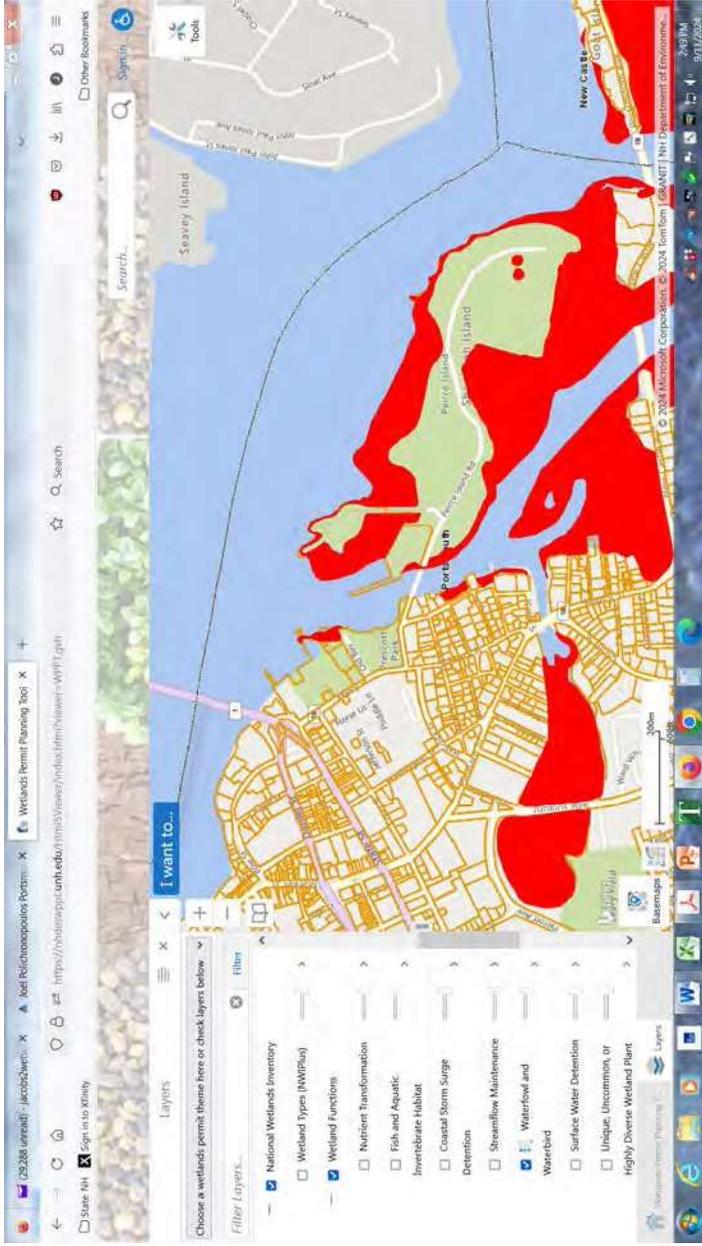
-  NH Parcels
-  Additional Lines
-  City/Town
-  Fish and Aquatic Inverteb
-  High
-  Moderate
-  StreamShading





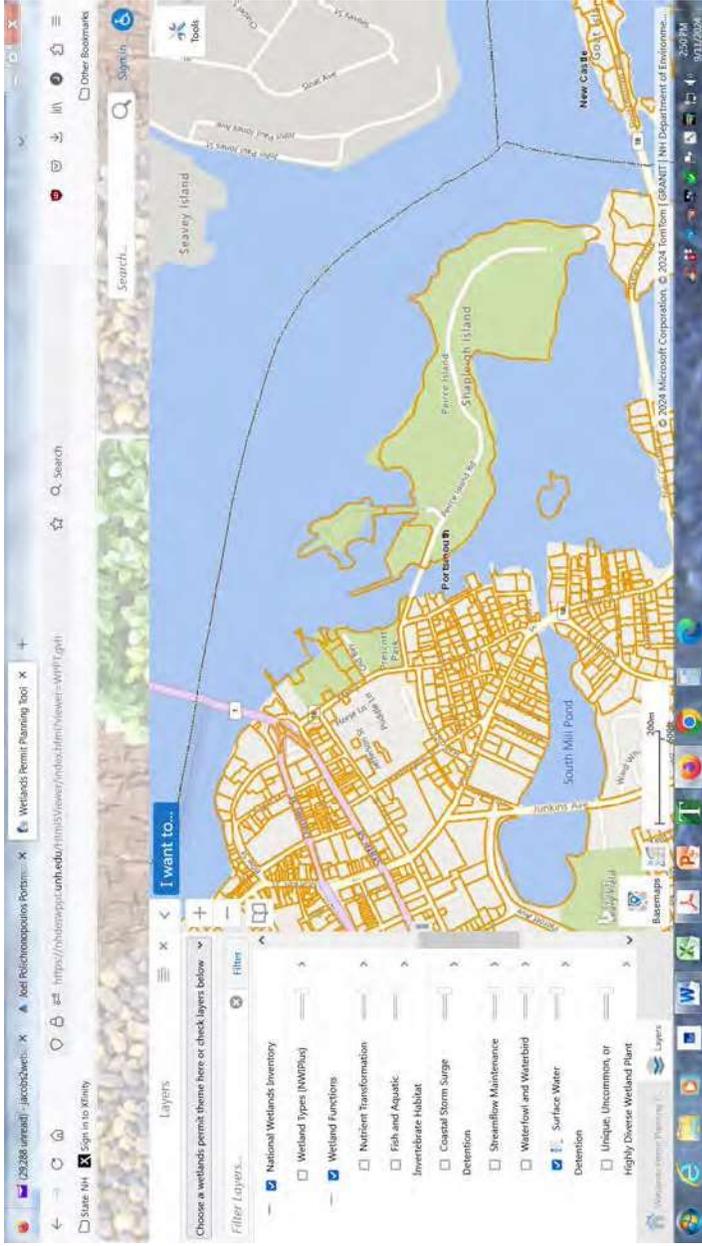
Legend

- NH Parcels
- Additional Lines
- City/TOWN
- Streamflow Maintenance
 - High
 - Moderate



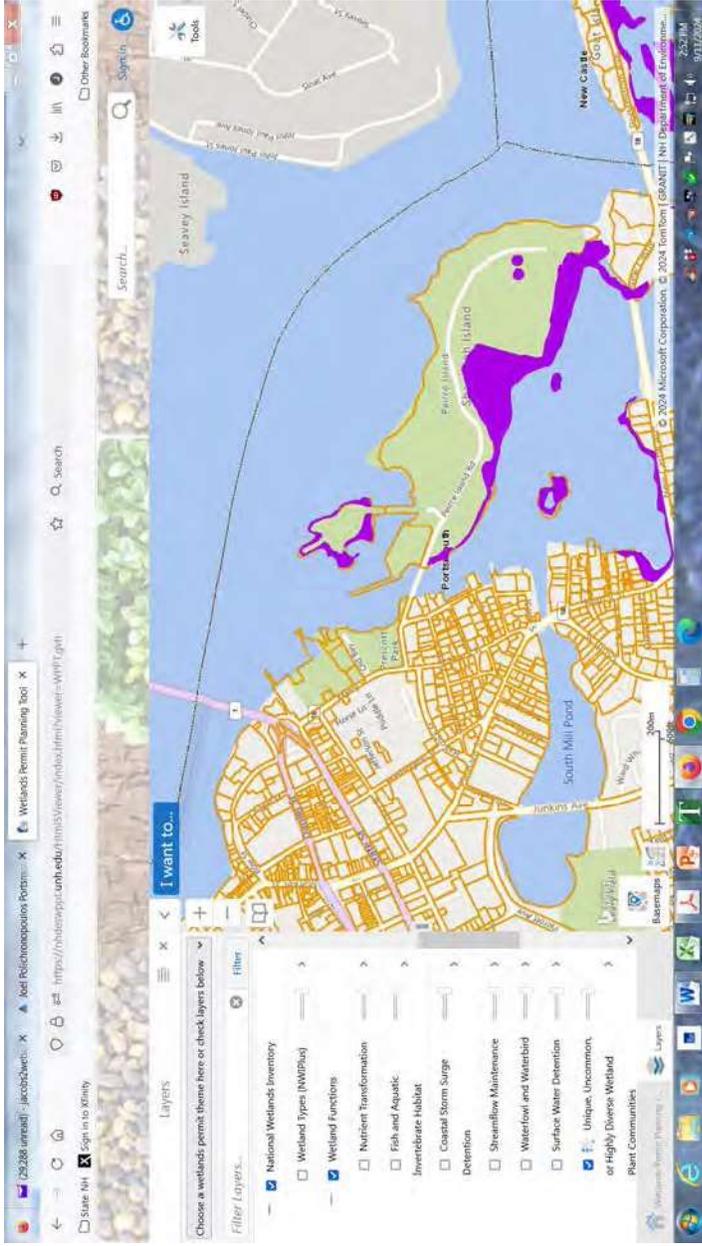
Legend

- NH Parcels
- Additional Lines
- City/Town
- Waterfowl and Waterbird
 - High
 - Moderate



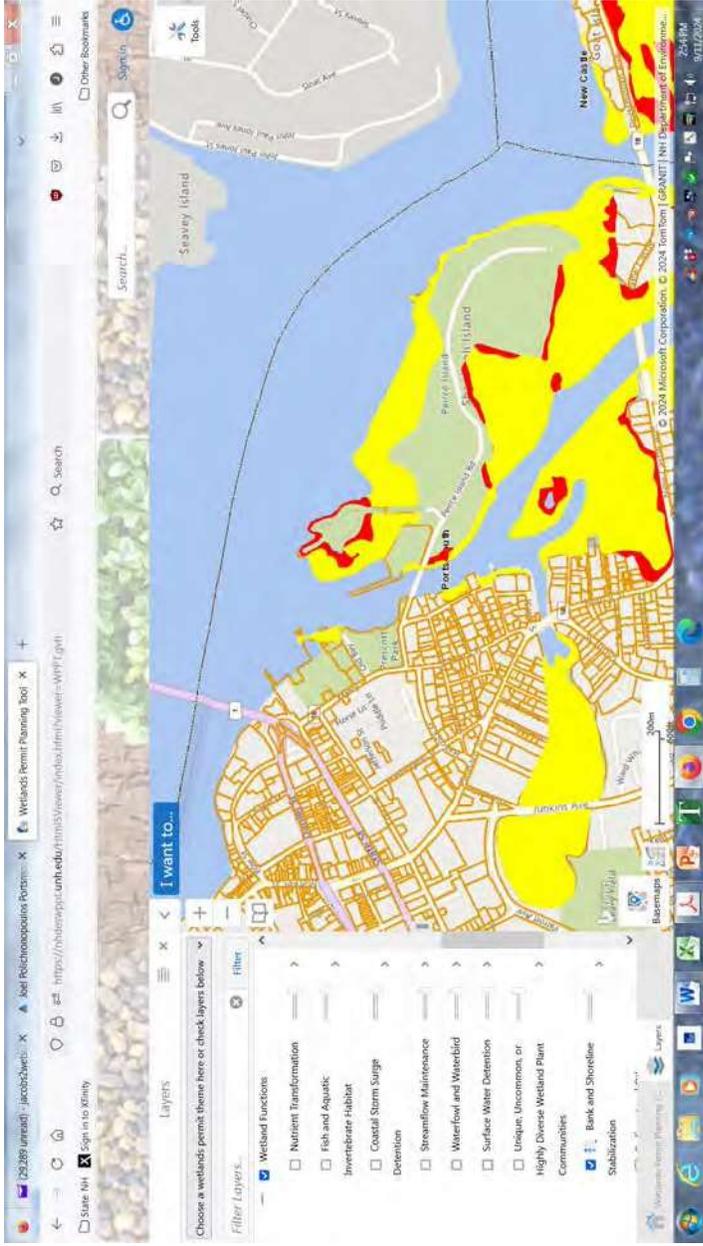
Legend

- NH Parcels
- Additional Lines
- City/Town
- Surface Water Detention**
- High
- Moderate



Legend

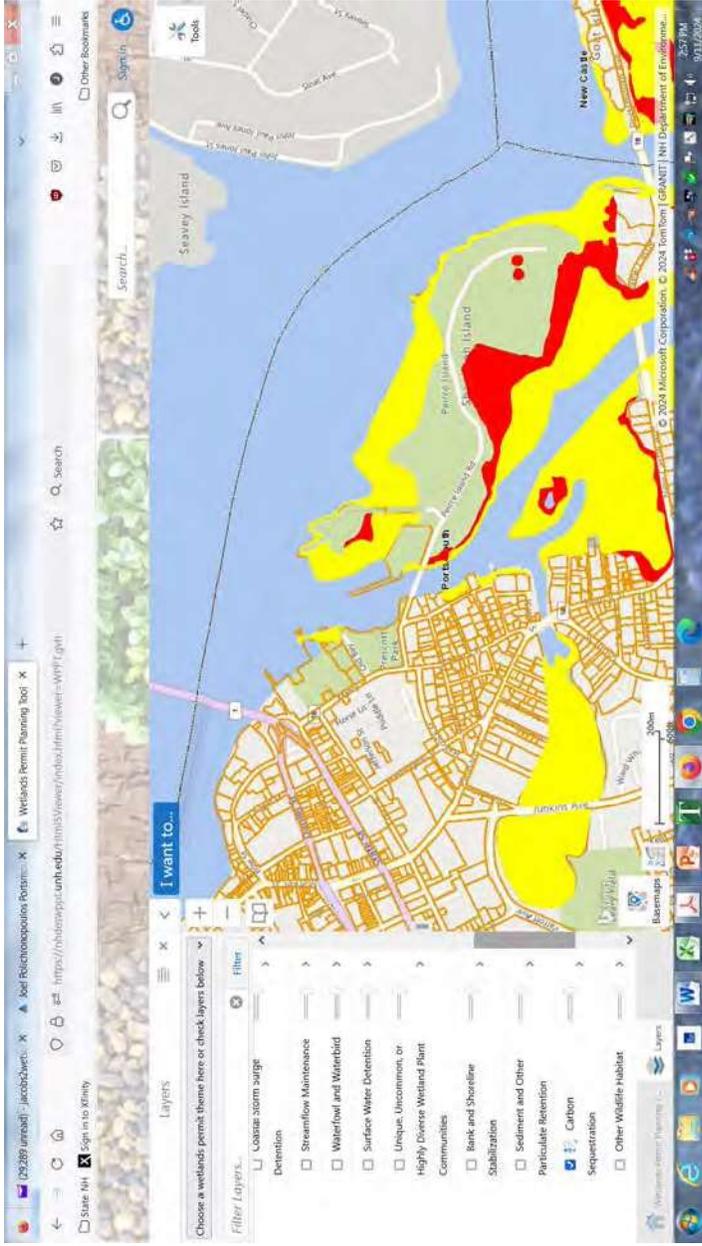
- NH Parcels
- Additional Lines
- City/Town
- Unique, Uncommon, or H Plant Communities
- Locally Significant
- Regionally Significant





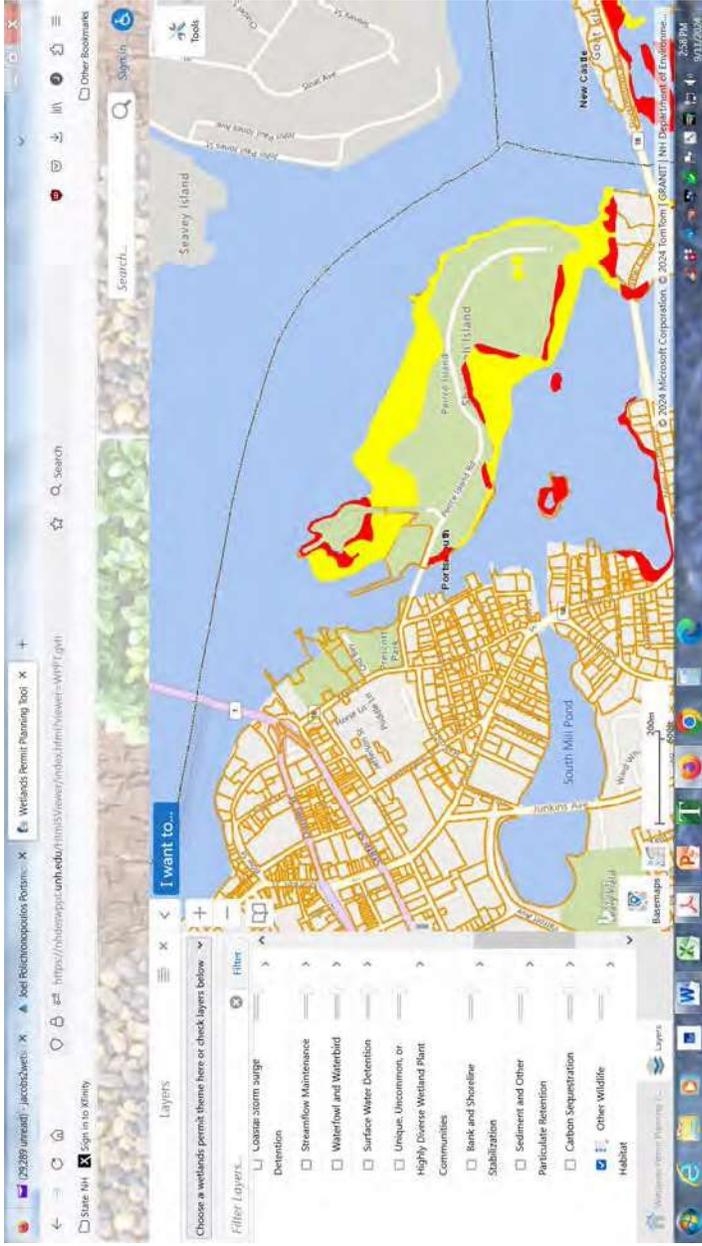
Legend

- NH Parcels
- Additional Lines
- City/Town
- Sediment and Other Part
- High
- Moderate



Legend

-  NH Parcels
-  Additional Lines
-  City/Town
-  Carbon Sequestration
 -  High
 -  Moderate



State Fish Pier

Legend

- NH Parcels
- Additional Lines
- City/Town
- Prime Wetlands
- Prime Wetlands with 100'
- Peatland
- Flood Plain Wetlands Adj
- Marsh-Scrub / Shrub Wet
- Dunes
 - backdune
 - foredune
 - interdune
 - other

ATTACHMENT 5

Map Scale
1:3,247

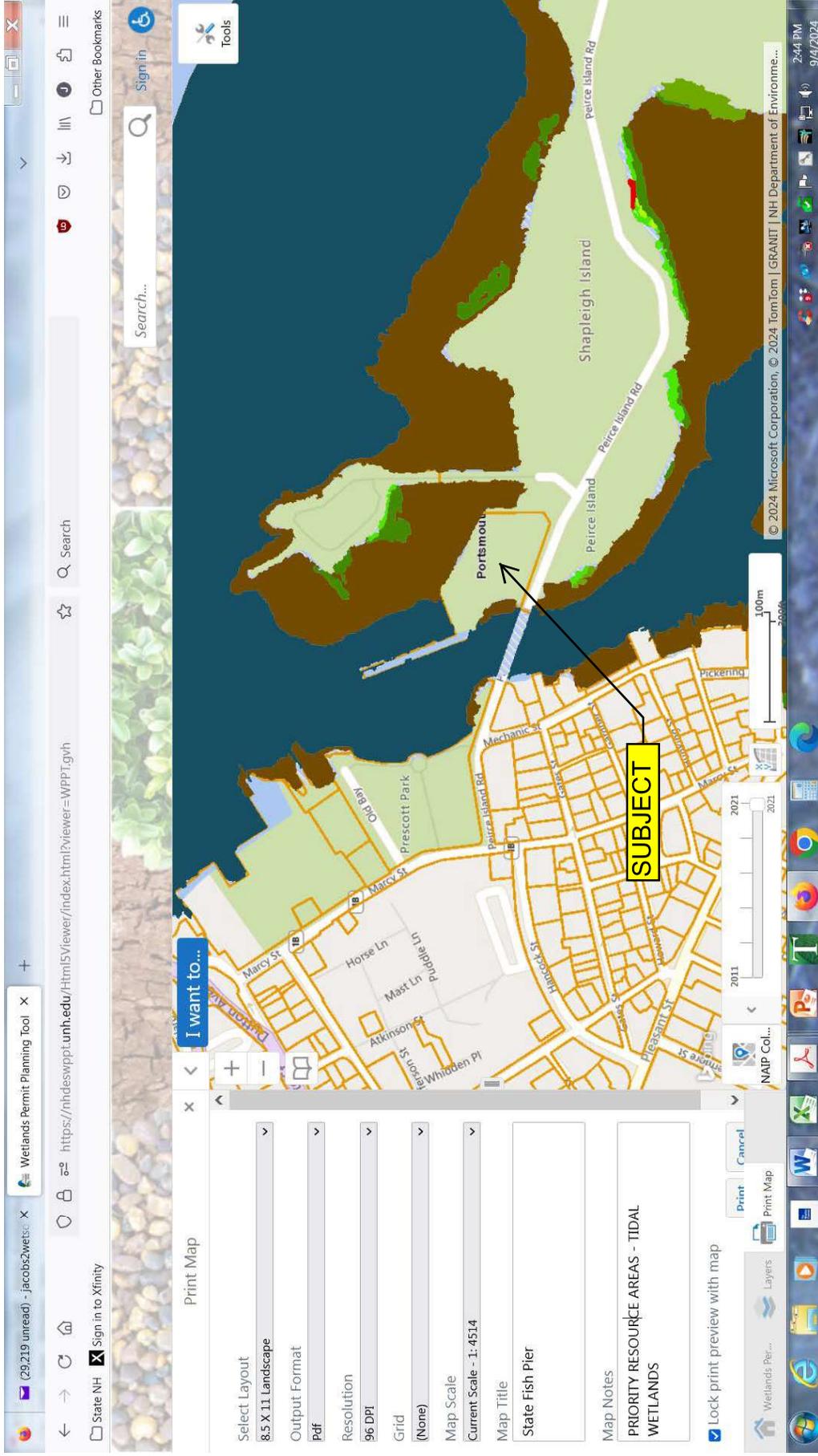
© NH GRANIT, www.granit.unh.edu
Map Generated: 9/4/2024

Notes

PRIORITY RESOURCE AREAS

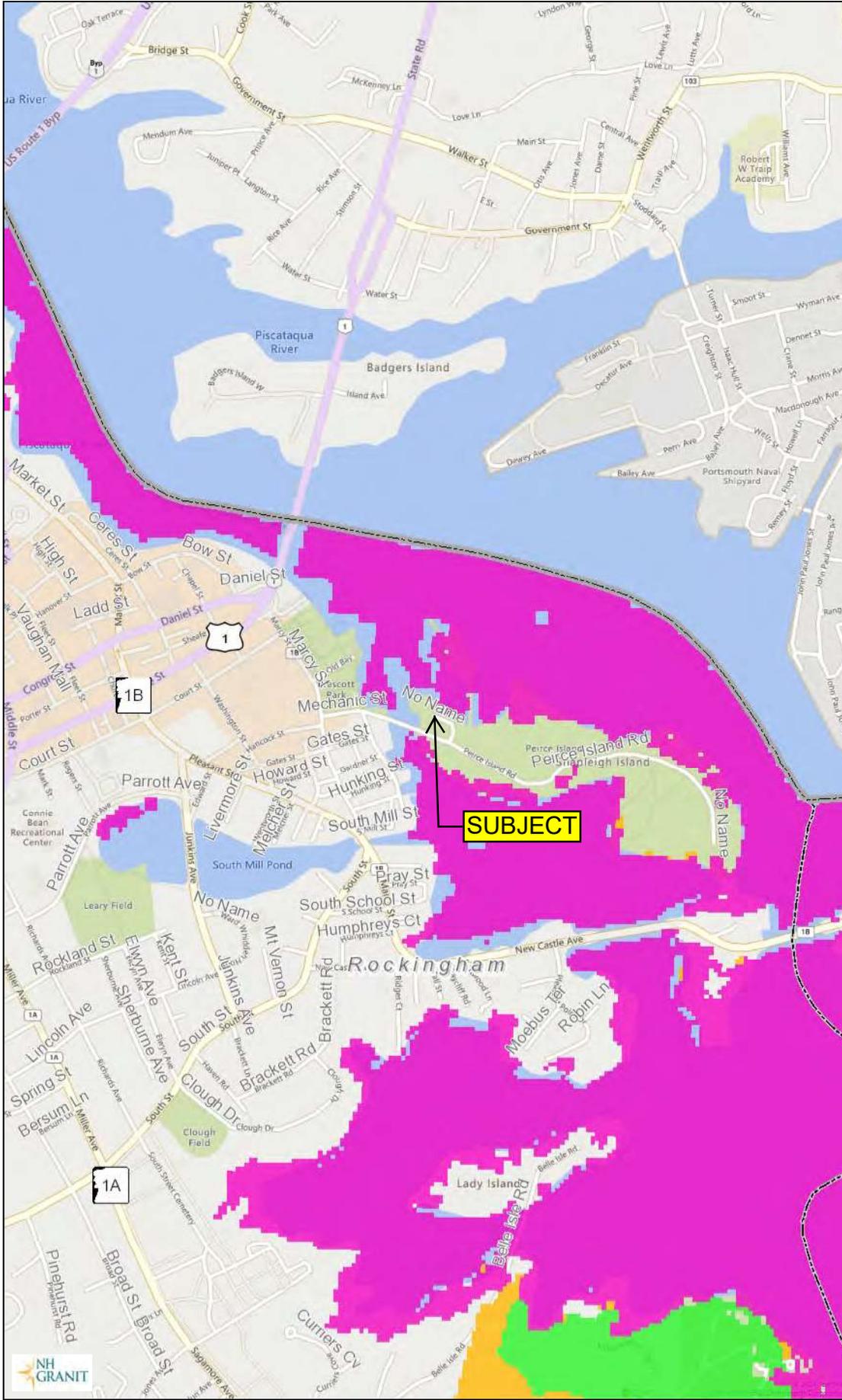


ATTACHMENT 5A



Due to computer issues that would not allow us to download or print a Priority Resource Area map that depicted tidal resources, we captured this screen shot.

STATE FISH PIER - PORTSMOUTH, NH



Legend

- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape

ATTACHMENT 6

Map Scale

1: 12,988



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Map Generated: 8/30/2024

Notes

2020 WILDLIFE ACTION PLAN



SUBJECT



United States Department of the Interior



FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104

In Reply Refer To:
Project code: 2024-0127974
Project Name: Portsmouth Fish Pier Building Replacement

08/08/2024 18:59:29 UTC

Federal Nexus: yes
Federal Action Agency (if applicable): State of New Hampshire

Subject: Federal agency coordination under the Endangered Species Act, Section 7 for
'Portsmouth Fish Pier Building Replacement'

Dear Steven Sargent:

This letter records your determination using the Information for Planning and Consultation (IPaC) system provided to the U.S. Fish and Wildlife Service (Service) on August 08, 2024, for "Portsmouth Fish Pier Building Replacement" (here forward, Project). This project has been assigned Project Code 2024-0127974 and all future correspondence should clearly reference this number.

The Service developed the IPaC system and associated species' determination keys in accordance with the Endangered Species Act of 1973 (ESA; 87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) and based on a standing analysis. All information submitted by the Project proponent into the IPaC must accurately represent the full scope and details of the Project. Failure to accurately represent or implement the Project as detailed in IPaC or the Northeast Determination Key (DKey), invalidates this letter. **Answers to certain questions in the DKey commit the project proponent to implementation of conservation measures that must be followed for the ESA determination to remain valid.**

To make a no effect determination, the full scope of the proposed project implementation (action) should not have any effects (either positive or negative effect(s)), to a federally listed species or designated critical habitat. Effects of the action are all consequences to listed species or critical habitat that are caused by the proposed action, including the consequences of other activities that are caused by the proposed action. A consequence is caused by the proposed action if it would not occur but for the proposed action and it is reasonably certain to occur. Effects of the action may occur later in time and may include consequences occurring outside the immediate area involved in the action. (See § 402.17). Under Section 7 of the ESA, if a federal action agency makes a no effect determination, no further consultation with, or concurrence from, the Service is

required (ESA §7). If a proposed Federal action may affect a listed species or designated critical habitat, formal consultation is required (except when the Service concurs, in writing, that a proposed action "is not likely to adversely affect" listed species or designated critical habitat [50 CFR §402.02, 50 CFR§402.13]).

The IPaC results indicated the following species is (are) potentially present in your project area and, based on your responses to the Service's Northeast DKey, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Roseate Tern (<i>Sterna dougallii dougallii</i>)	Endangered	No effect

Conclusion If there are no updates on listed species, no further consultation/coordination for this project is required for the species identified above. However, the Service recommends that project proponents re-evaluate the Project in IPaC if: 1) the scope, timing, duration, or location of the Project changes (includes any project changes or amendments); 2) new information reveals the Project may impact (positively or negatively) federally listed species or designated critical habitat; or 3) a new species is listed, or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project implements any changes which are final or commits additional resources.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and are not covered by this conclusion:

- Monarch Butterfly *Danaus plexippus* Candidate
- Northern Long-eared Bat *Myotis septentrionalis* Endangered
- Tricolored Bat *Perimyotis subflavus* Proposed Endangered

To complete consultation for species that have reached a "May Affect" determination and/or species may occur in your project area and are not covered by this conclusion, please visit the "New England Field Office Endangered Species Project Review and Consultation" website for step-by-step instructions on how to consider effects on these listed species and/or critical habitats, avoid and minimize potential adverse effects, and prepare and submit a project review package if necessary: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

Please Note: If the Action may impact bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act (BGEPA) (54 Stat. 250, as amended, 16 U.S.C. 668a-d) by the prospective permittee may be required. Please contact the Migratory Birds Permit Office, (413) 253-8643, or PermitsR5MB@fws.gov, with any questions regarding potential impacts to Eagles.

If you have any questions regarding this letter or need further assistance, please contact the New England Ecological Services Field Office and reference the Project Code associated with this Project.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

Portsmouth Fish Pier Building Replacement

2. Description

The following description was provided for the project 'Portsmouth Fish Pier Building Replacement':

The proposed project provides for removal of the existing building in its entirety and replacement of the existing original 1978 portion of the building in the same location, on existing foundations. The area of the original building developed in 1978 is 2,000 square feet (sf) and the subsequent additions added in later years total approximately 3,000 sf. The total area to be disturbed at the exterior of the original 1978 portion of the existing building is approximately 5,230 square feet.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.075646500000005,-70.74884834291878,14z>



QUALIFICATION INTERVIEW

1. As a representative of this project, do you agree that all items submitted represent the complete scope of the project details and you will answer questions truthfully?

Yes

2. Does the proposed project include, or is it reasonably certain to cause, intentional take of listed species?

Note: This question could refer to research, direct species management, surveys, and/or studies that include intentional handling/encountering, harassment, collection, or capturing of any individual of a federally listed threatened, endangered, or proposed species.

No

3. Is the action authorized, permitted, licensed, funded, or being carried out by a Federal agency in whole or in part?

Yes

4. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) the lead agency for this project?

No

5. Are you including in this analysis all impacts to federally listed species that may result from the entirety of the project (not just the activities under federal jurisdiction)?

Note: If there are project activities that will impact listed species that are considered to be outside of the jurisdiction of the federal action agency submitting this key, contact your local Ecological Services Field Office to determine whether it is appropriate to use this key. If your Ecological Services Field Office agrees that impacts to listed species that are outside the federal action agency's jurisdiction will be addressed through a separate process, you can answer yes to this question and continue through the key.

Yes

6. Are you the lead federal action agency or designated non-federal representative requesting concurrence on behalf of the lead Federal Action Agency?

No

7. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)?

No

8. Is the lead federal action agency the Federal Energy Regulatory Commission (FERC)?

No

9. Is the lead federal action agency the Natural Resources Conservation Service?

No

10. Will the proposed project involve the use of herbicide where listed species are present?

No

11. Are there any caves or anthropogenic features suitable for hibernating or roosting bats within the area expected to be impacted by the project?

No

12. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **birds** (e.g., plane-based surveys, land-based or offshore wind turbines, communication towers, high voltage transmission lines, any type of towers with or without guy wires)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

13. Does any component of the project associated with this action include activities or structures that may pose a collision risk to **bats** (e.g., plane-based surveys, land-based or offshore wind turbines)?

Note: For federal actions, answer 'yes' if the construction or operation of wind power facilities is either (1) part of the federal action or (2) would not occur but for a federal agency action (federal permit, funding, etc.).

No

14. Will the proposed project result in permanent changes to water quantity in a stream or temporary changes that would be sufficient to result in impacts to listed species?

For example, will the proposed project include any activities that would alter stream flow, such as water withdrawal, hydropower energy production, impoundments, intake structures, diversion structures, and/or turbines? Projects that include temporary and limited water reductions that will not displace listed species or appreciably change water availability for listed species (e.g. listed species will experience no changes to feeding, breeding or sheltering) can answer "No". Note: This question refers only to the amount of water present in a stream, other water quality factors, including sedimentation and turbidity, will be addressed in following questions.

No

15. Will the proposed project affect wetlands where listed species are present?

This includes, for example, project activities within wetlands, project activities within 300 feet of wetlands that may have impacts on wetlands, water withdrawals and/or discharge of contaminants (even with a NPDES).

No

16. Will the proposed project activities (including upland project activities) occur within 0.125 miles of the water's edge of a stream or tributary of a stream where listed species may be present?

No

17. Will the proposed project directly affect a streambed (below ordinary high water mark (OHWM)) of the stream or tributary where listed species may be present?

No

18. Will the proposed project bore underneath (directional bore or horizontal directional drill) a stream where listed species may be present?

No

19. Will the proposed project involve a new point source discharge into a stream or change an existing point source discharge (e.g., outfalls; leachate ponds) where listed species may be present?

No

20. Will the proposed project involve the removal of excess sediment or debris, dredging or in-stream gravel mining where listed species may be present?

No

21. Will the proposed project involve the creation of a new water-borne contaminant source where listed species may be present?

Note New water-borne contaminant sources occur through improper storage, usage, or creation of chemicals. For example: leachate ponds and pits containing chemicals that are not NSF/ANSI 60 compliant have contaminated waterways. Sedimentation will be addressed in a separate question.

No

22. Will the proposed project involve perennial stream loss, in a stream or tributary of a stream where listed species may be present, that would require an individual permit under 404 of the Clean Water Act?

No

23. Will the proposed project involve blasting where listed species may be present?

No

24. Will the proposed project include activities that could negatively affect fish movement temporarily or permanently (including fish stocking, harvesting, or creation of barriers to fish passage).

No

25. Will the proposed project involve earth moving that could cause erosion and sedimentation, and/or contamination along a stream or tributary of a stream where listed species may be present?

Note: Answer "Yes" to this question if erosion and sediment control measures will be used to protect the stream.

No

26. Will earth moving activities result in sediment being introduced to streams or tributaries of streams where listed species may be present through activities such as, but not limited to, valley fills, large-scale vegetation removal, and/or change in site topography?

No

27. Will the proposed project involve vegetation removal within 200 feet of a perennial stream bank where aquatic listed species may be present?

No

28. Will erosion and sedimentation control Best Management Practices (BMPs) associated with applicable state and/or Federal permits, be applied to the project? If BMPs have been provided by and/or coordinated with and approved by the appropriate Ecological Services Field Office, answer "Yes" to this question.

Yes

29. Is the project being funded, lead, or managed in whole or in part by U.S Fish and Wildlife Restoration and Recovery Program (e.g., Partners, Coastal, Fisheries, Wildlife and Sport Fish Restoration, Refuges)?

No

30. Will the proposed project result in changes to beach dynamics that may modify formation of habitat over time?

Note: Examples of projects that result in changes to beach dynamics include 1) construction of offshore breakwaters and groins; 2) mining of sand from an updrift ebb tidal delta; 3) removing or adding beach sands; and 4) projects that stabilize dunes (including placement of sand fences or planting vegetation).

No

31. [Hidden Semantic] Is the project area located within the roseate tern AOI?

Automatically answered

Yes

32. If you have determined that the roseate tern is unlikely to occur within your project's action area or that your project is unlikely to have any potential effects on the roseate tern, you may wish to make a "no effect" determination for the roseate tern. Additional guidance on how to make this decision can be found in the project review section of your local Ecological Services Field Office's website. CBFO: <https://www.fws.gov/office/chesapeake-bay-ecological-services/project-review> ; MEFO: <https://www.fws.gov/office/maine-ecological-services> ; NJFO: <https://www.fws.gov/office/new-jersey-ecological-services/new-jersey-field-office-project-review-guide> ; NEFO: <https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review#Step5> ; WVFO: <https://www.fws.gov/office/west-virginia-ecological-services/project-planning>. If you are unsure, answer "No" and continue through the key.

Would you like to make a no effect determination for the roseate tern?

No

33. Is this an aquaculture project?

No

34. Is this a coastal project that has an action area that is less than one-half acre?

Note: These projects may include marker buoys, moorings, navigational structures, docks, piers, floats, boat ramps, private dredging, boat houses, lobster pound, or shoreline work.

No

35. Will project activities be conducted during the time of year when roseate terns are likely to be present?

Note: roseate terns are likely to be present in Maine May 1 through Sept. 1; and in Connecticut, Massachusetts, New Hampshire, and Rhode Island April 15 through Oct. 15.

Yes

36. Will the proposed project affect suitable habitat for roseate terns nesting (barrier islands with dense vegetation or rocks to serve as shelter)?

No

37. Will the proposed project affect suitable habitat for roseate terns foraging (nearshore shallow waters, shoals and shoals in offshore waters)?

No

38. Will the proposed project affect suitable habitat for roseate terns roosting (rocky habitat on coastal islands)?

No

39. Will the proposed project affect suitable habitat for roseate terns staging (sandy barrier beaches, often on distal tips, primarily in NY and NE)?

No

40. Will the proposed project involve ground disturbance (e.g., vehicles, tracked equipment, excavating, grading, placing fill material, etc.) in roseate tern foraging, nesting, roosting or staging habitat while terns are likely to be present (April 1 - September 30)?

No

41. Does the action area include suitable habitat for migrating roseate terns (sandy beaches, coastal islands)?

No

42. [Semantic] Does the project intersect the Virginia big-eared bat critical habitat?

Automatically answered

No

43. [Semantic] Does the project intersect the Indiana bat critical habitat?

Automatically answered

No

44. [Semantic] Does the project intersect the candy darter critical habitat?

Automatically answered

No

45. [Semantic] Does the project intersect the diamond darter critical habitat?

Automatically answered

No

46. [Semantic] Does the project intersect the Big Sandy crayfish critical habitat?

Automatically answered

No

47. [Hidden Semantic] Does the project intersect the Guyandotte River crayfish critical habitat?

Automatically answered

No

48. Do you have any other documents that you want to include with this submission?

No

PROJECT QUESTIONNAIRE

1. Approximately how many acres of trees would the proposed project remove?

0

2. Approximately how many total acres of disturbance are within the disturbance/ construction limits of the proposed project?

0.12

3. Briefly describe the habitat within the construction/disturbance limits of the project site.

All disturbance associated with the project will be within the limits of the existing building foundation and paved area around the building, therefore, no habitat is within the construction/disturbance limits of the project.

IPAC USER CONTACT INFORMATION

Agency: Oak Point Associates
Name: Steven Sargent
Address: 85 Middle Street
City: Portsmouth
State: NH
Zip: 03840
Email: ssargent@oakpoint.com
Phone: 6034314849

LEAD AGENCY CONTACT INFORMATION

Lead Agency: State of New Hampshire

ATTACHMENT 8

EFH Mapper Report

EFH Data Notice

Essential Fish Habitat (EFH) is defined by textual descriptions contained in the fishery management plans developed by the regional fishery management councils. In most cases mapping data can not fully represent the complexity of the habitats that make up EFH. This report should be used for general interest queries only and should not be interpreted as a definitive evaluation of EFH at this location. A location-specific evaluation of EFH for any official purposes must be performed by a regional expert. Please refer to the following links for the appropriate regional resources.

[Greater Atlantic Regional Office](#)
[Atlantic Highly Migratory Species Management Division](#)

Query Results

Degrees, Minutes, Seconds: Latitude = 43° 4' 31" N, Longitude = 71° 15' 7" W
 Decimal Degrees: Latitude = 43.075, Longitude = -70.748

The query location intersects with spatial data representing EFH and/or HAPCs for the following species/management units.

*** WARNING ***

Please note under "Life Stage(s) Found at Location" the category "ALL" indicates that all life stages of that species share the same map and are designated at the queried location.

EFH

Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
		Atlantic Butterfish	Adult	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
		Atlantic Cod	Adult, Eggs, Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
		Atlantic Herring	Adult, Juvenile, Larvae	New England	Amendment 3 to the Atlantic Herring FMP
		Atlantic Mackerel	Eggs, Juvenile, Larvae	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
		Atlantic Sea Scallop	ALL	New England	Amendment 14 to the Atlantic Sea Scallop FMP
		Atlantic Wolffish	ALL	New England	Amendment 14 to the Northeast Multispecies FMP

Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
		Bluefin Tuna	Adult	Secretarial	Amendment 10 to the 2006 Consolidated HMS FMP: EFH
		Bluefish	Adult, Juvenile	Mid-Atlantic	Bluefish
		Little Skate	Adult, Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		Pollock	Eggs, Juvenile, Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
		Red Hake	Adult, Eggs/Larvae /Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
		Smooth Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		Thorny Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
		White Hake	Adult, Eggs, Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
		Windowpane Flounder	Adult, Eggs, Juvenile, Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
		Winter Flounder	Eggs, Juvenile, Larvae/Adult	New England	Amendment 14 to the Northeast Multispecies FMP
		Winter Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP

Pacific Salmon EFH

No Pacific Salmon Essential Fish Habitat (EFH) were identified at the report location.

Atlantic Salmon

No Atlantic Salmon were identified at the report location.

HAPCs

No Habitat Areas of Particular Concern (HAPC) were identified at the report location.

EFH Areas Protected from Fishing

No EFH Areas Protected from Fishing (EFHA) were identified at the report location.

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data.

****For links to all EFH text descriptions see the complete data inventory: [open data inventory -->](#)**

All EFH species have been mapped for the Greater Atlantic region,

Atlantic Highly Migratory Species EFH,

Bigeye Sand Tiger Shark,

Bigeye Sixgill Shark,

Caribbean Sharpnose Shark,

Galapagos Shark,

Narrowtooth Shark,

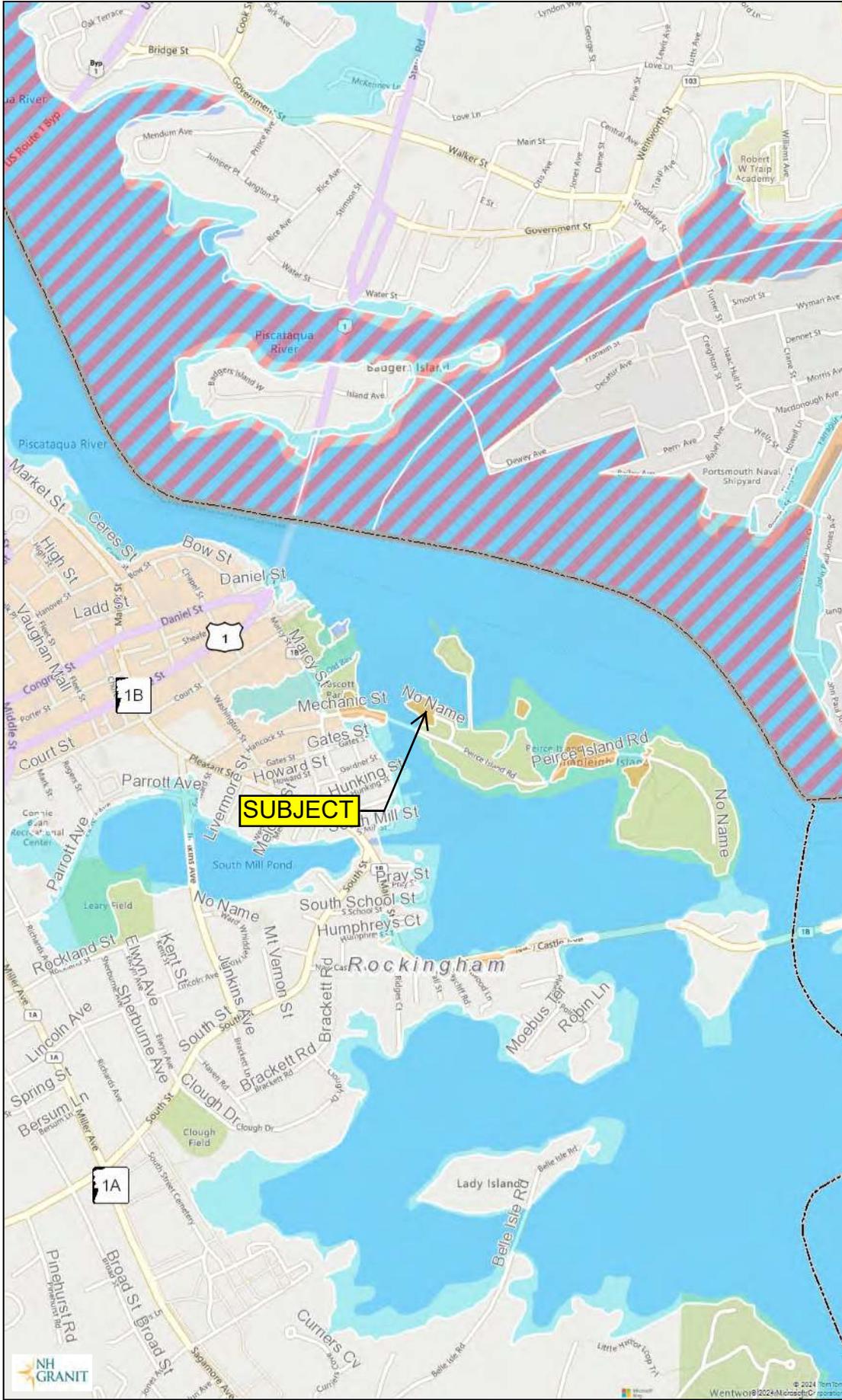
Sevengill Shark,

Sixgill Shark,

Smooth Hammerhead Shark,

Smalltail Shark

STATE FISH PIER - PORTSMOUTH, NH



Legend

- State
- County
- City/Town
- Cross-Sections
- ~ Base Flood Elevations
- Flood Hazard Boundaries
 - Limit Lines
 - NP SFHA / Flood Zone Boundary
 - Flowage Easement Boundary
- Flood Hazard Zones
 - 1% Annual Chance Flood Hazard
 - Regulatory Floodway
 - Special Floodway
 - Area of Undetermined Flood Hazard
 - 0.2% Annual Chance Flood Hazard
 - Future Conditions 1% Annual Chan Hazard
 - Area with Reduced Risk Due to Lev
 - Area with Risk Due to Levee

ATTACHMENT 9

Map Scale

1: 12,988

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Map Generated: 8/30/2024



Notes

FLOOD PLAIN



PORTSMOUTH FISH PIER



Legend

- NH Parcels
- Additional Lines
- City/Town
- MHHW + 2-ft SLR
- 0-2
- 2-4
- 4-6
- 6-8
- 8-10
- 10+

ATTACHMENT 10

Map Scale
1: 1,624

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Map Generated: 9/9/2024

Notes

SEA LEVEL RISE (SLR) OVER MEAN
HIGHER HIGH WATER (MHHW) - MHHW
& 2 FT SLR

PORTSMOUTH FISH PIER



Legend

- NH Parcels
- Additional Lines
- City/Town
- MHHW + 1% Flood + 2-ft
- 0-2
- 2-4
- 4-6
- 6-8
- 8-10
- 10+

ATTACHMENT 10A



Map Scale
1: 1,624

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Map Generated: 9/9/2024

Notes

SEA LEVEL RISE (SLR) OVER MEAN
HIGHER HIGH WATER (MHHW) - MHHW
& 1% FLOOD BASELINE & 2 FT SLR

PORTSMOUTH FISH PIER

Legend

- NH Parcels
- Additional Lines
- City/Town
- SLAMM 2022 - 0.5-m SLF
- Developed
- Developed-Impervious
- Estuarine Beach
- Estuarine Open Water
- Inland Fresh Marsh
- Inland Open Water
- Inland Shore
- Irregularly-flooded Marsh
- Ocean Beach
- Open Ocean
- Regularly-flooded Marsh
- Riverine Tidal
- Rocky Interstitial
- Swamp
- Tidal Flat
- Tidal Fresh Marsh
- Tidal Swamp

Map Scale

1: 1,624

© NH GRANIT, www.granit.unh.edu

Map Generated: 9/9/2024

Notes

PREDICTED MARSH MIGRATION - 0.5m
SLR at 2050

ATTACHMENT 11



EU # 1/1 of Marsh System State Fish Pier-Portsmouth, NH

NEEDED FOR THIS EVALUATION:

- Base map
- Coastal Wetland Plants of the Northeastern US

**Function 1
ECOLOGICAL INTEGRITY
Part A**

A Evaluation Questions	B Notes	C Evaluation Criteria	D Functional Index (FI)
Part A: Ecological Integrity of the Evaluation Unit 500' radius circle centered on Fish Pier Property			
Questions that may require field observation			
1A. Percent of the marsh plant community dominated by invasive plant species.		a. < 5% dominated by invasive species b. 5% – 20% dominated c. > 20% dominated	(1.0) 0.5 0.1
2A. Number of tidal restrictions.		a. no tidal restrictions b. one tidal restriction c. more than one tidal restriction	1.0 (0.5) 0.1
3A. Type of tidal restriction.		a. no restriction b. flow through bridge appears adequate c. flow through bridge appears inadequate, or flow restricted by culvert	(1.0) 0.5 0.1
4A. Ditching on surface of the EU.		a. no ditching b. ditches present in linear pattern c. ditches present in grid pattern	(1.0) 0.5 0.1

AVERAGE FUNCTIONAL INDEX FOR Part A of FUNCTION 1 = Average of Column D = $\frac{3.5}{4} = 0.875$

NEEDED FOR THIS EVALUATION:

- Base map
- Map wheel/measurer
- 100 foot tape measure
- Calculator

Function 1
ECOLOGICAL INTEGRITY
Part B

A Evaluation Questions	B Notes	C Evaluation Criteria	D Functional Index (FI)
------------------------------	------------	-----------------------------	-------------------------------

Part B: Ecological Integrity of the Zone of Influence Considers uplands

Questions that may require field observation

1B. Dominant land-use in the 500 foot Zone of Influence surrounding the EU.		a. forested, fields, open water or similar open space b. agricultural or rural residential c. commercial, industrial, high density residential, or heavily used highways	1.0 0.5 0.1
2B. Ratio of the number of occupied buildings (including seasonal) within the EU and/or Zone of Influence to total area of EU.		a. < 0.1 bldg./acre b. from 0.1 – 0.5 bldg./acre c. > 0.5 bldg./acre	1.0 0.5 0.1
3B. Percent of EU/upland border which has a buffer of woodland or idle land 500 feet in width.		a. more than 70% b. from 30% – 70% c. less than 30%	1.0 0.5 0.1
4B. Square footage of roads, driveways, and parking lots within 150 feet of EU.		a. < 1500 sq. feet/acre b. from 1500 – 6000 sq. feet/acre c. > 6000 sq. feet/acre	1.0 0.5 0.1

AVERAGE FUNCTIONAL INDEX FOR Part B of FUNCTION 1 = Average of Column D = $\frac{1.2}{4} = 0.3$

Portsmouth Fish Pier
1 Peirce Island Road
500' Radius Circle

MEJ

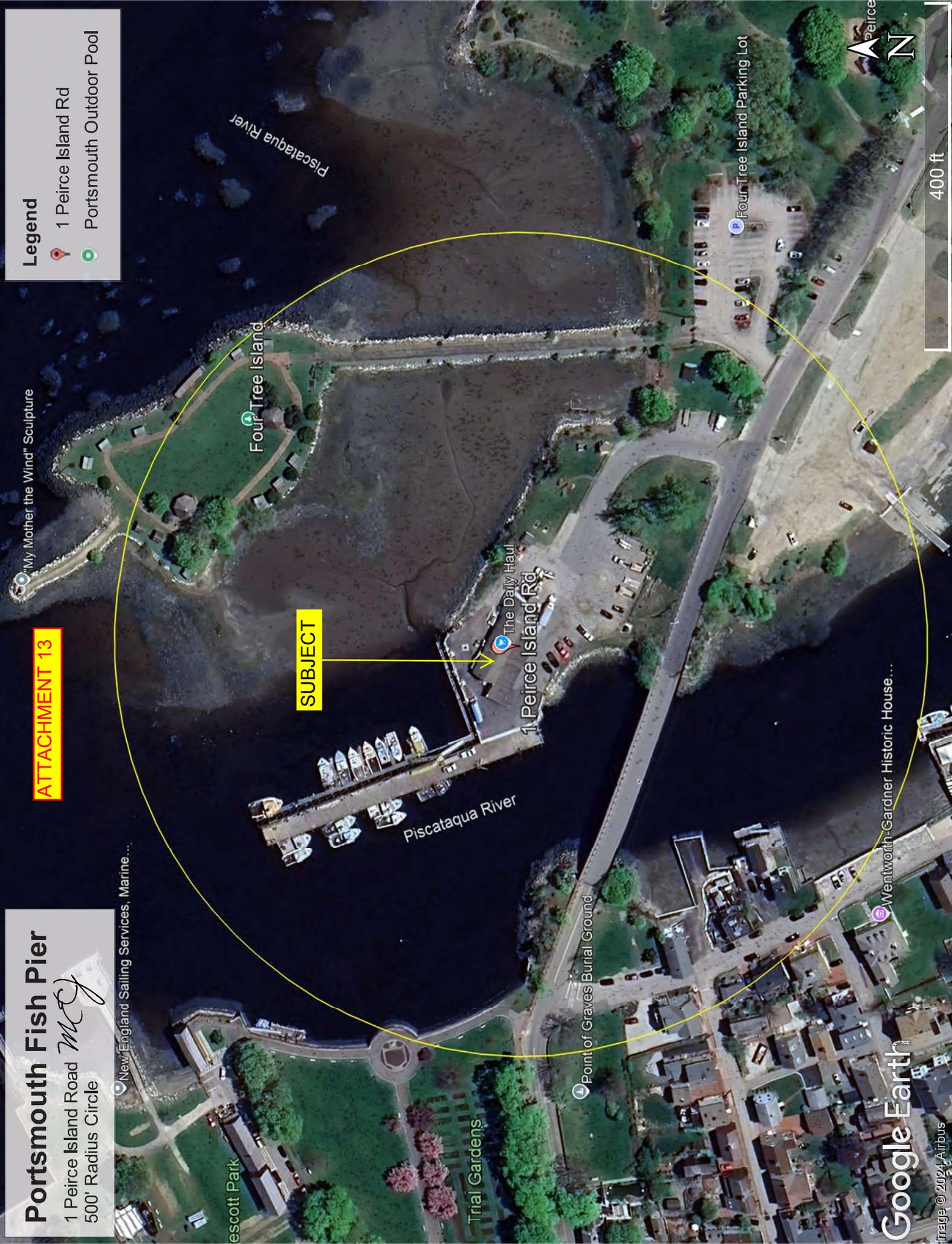
New England Sailing Services, Marine...

ATTACHMENT 13

Legend

- 1 Peirce Island Rd
- Portsmouth Outdoor Pool

SUBJECT





**WETLANDS FUNCTIONAL ASSESSMENT
WORKSHEET**
Water Division/Land Resource Management
Wetlands Bureau



[Check the Status of your Application](#)

RSA/Rule: RSA 482-A / Env-Wt 311.03(b)(10); Env-Wt 311.10

APPLICANT LAST NAME, FIRST NAME, M.I.: Pease Development Authority-Div. of Ports & Harbor

As required by Env-Wt 311.03(b)(10), an application for a standard permit for minor and major projects must include a functional assessment of all wetlands on the project site as specified in Env-Wt 311.10. This worksheet will help you compile data for the functional assessment needed to meet federal (US Army Corps of Engineers (USACE); if applicable) and NHDES requirements. Additional requirements are needed for projects in tidal area; please refer to the [Coastal Area Worksheet \(NHDES-W-06-079\)](#) for more information.

Both a desktop review and a field examination are needed to accurately determine surrounding land use, hydrology, hydroperiod, hydric soils, vegetation, structural complexity of wetland classes, hydrologic connections between wetlands or stream systems or wetland complex, position in the landscape, and physical characteristics of wetlands and associated surface waters. The results of the evaluation are to be used to select the location of the proposed project having the least impact to wetland functions and values (Env-Wt 311.10). This worksheet can be used in conjunction with the [Avoidance and Minimization Written Narrative \(NHDES-W-06-089\)](#) and the [Avoidance and Minimization Checklist \(NHDES-W-06-050\)](#) to address Env-Wt 313.03 (Avoidance and Minimization). If more than one wetland/ stream resource is identified, multiple worksheets can be attached to the application. All wetland, vernal pools, and stream identification (ID) numbers are to be displayed and located on the wetlands delineation of the subject property.

SECTION 1 - LOCATION (USACE HIGHWAY METHODOLOGY)	
ADJACENT LAND USE: Commercial Fish Pier	
CONTIGUOUS UNDEVELOPED BUFFER ZONE PRESENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
DISTANCE TO NEAREST ROADWAY OR OTHER DEVELOPMENT (in feet): 0	
SECTION 2 - DELINEATION (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
CERTIFIED WETLAND SCIENTIST (if in a non-tidal area) or QUALIFIED COASTAL PROFESSIONAL (if in a tidal area) who prepared this assessment: Marc E. Jacobs	
DATE(S) OF SITE VISIT(S): 09/10/24	DELINEATION PER ENV-WT 406 COMPLETED? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
CONFIRM THAT THE EVALUATION IS BASED ON:	
<input checked="" type="checkbox"/> Office and	
<input checked="" type="checkbox"/> Field examination.	
METHOD USED FOR FUNCTIONAL ASSESSMENT (check one and fill in blank if "other"):	
<input checked="" type="checkbox"/> USACE Highway Methodology.	
<input checked="" type="checkbox"/> Other scientifically supported method (enter name/ title): Method for Eval & Inventory of Veg Tidal Marshes in NH	

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SECTION 3 - WETLAND RESOURCE SUMMARY (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
WETLAND ID: Piscataqua River	LOCATION: (LAT/ LONG) 43 04' 32.64"/70 44' 56.09"
WETLAND AREA: virtually unlimited	DOMINANT WETLAND SYSTEMS PRESENT: Tidal
HOW MANY TRIBUTARIES CONTRIBUTE TO THE WETLAND? virtually unlimited	COWARDIN CLASS: E1UBL, E2US3M
IS THE WETLAND A SEPARATE HYDRAULIC SYSTEM? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No if not, where does the wetland lie in the drainage basin? Bottom	IS THE WETLAND PART OF: <input checked="" type="checkbox"/> A wildlife corridor or <input type="checkbox"/> A habitat island? IS THE WETLAND HUMAN-MADE? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IS THE WETLAND IN A 100-YEAR FLOODPLAIN? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ARE VERNAL POOLS PRESENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (If yes, complete the Vernal Pool Table)
ARE ANY WETLANDS PART OF A STREAM OR OPEN-WATER SYSTEM? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	ARE ANY PUBLIC OR PRIVATE WELLS DOWNSTREAM/ DOWNGRADIENT? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
PROPOSED WETLAND IMPACT TYPE: Pre Dev Tidal BZ	PROPOSED WETLAND IMPACT AREA: 6,110
SECTION 4 - WETLANDS FUNCTIONS AND VALUES (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)	
<p>The following table can be used to compile data on wetlands functions and values. The reference numbers indicated in the "Functions/ Values" column refer to the following functions and values:</p> <ol style="list-style-type: none"> 1. Ecological Integrity (from RSA 482-A:2, XI) 2. Educational Potential (from USACE Highway Methodology: Educational/Scientific Value) 3. Fish & Aquatic Life Habitat (from USACE Highway Methodology: Fish & Shellfish Habitat) 4. Flood Storage (from USACE Highway Methodology: Floodflow Alteration) 5. Groundwater Recharge (from USACE Highway Methodology: Groundwater Recharge/Discharge) 6. Noteworthiness (from USACE Highway Methodology: Threatened or Endangered Species Habitat) 7. Nutrient Trapping/Retention & Transformation (from USACE Highway Methodology: Nutrient Removal) 8. Production Export (Nutrient) (from USACE Highway Methodology) 9. Scenic Quality (from USACE Highway Methodology: Visual Quality/Aesthetics) 10. Sediment Trapping (from USACE Highway Methodology: Sediment /Toxicant Retention) 11. Shoreline Anchoring (from USACE Highway Methodology: Sediment/Shoreline Stabilization) 12. Uniqueness/Heritage (from USACE Highway Methodology) 13. Wetland-based Recreation (from USACE Highway Methodology: Recreation) 14. Wetland-dependent Wildlife Habitat (from USACE Highway Methodology: Wildlife Habitat) <p>First, determine if a wetland is suitable for a particular function and value ("Suitability" column) and indicate the rationale behind your determination ("Rationale" column). Please use the rationale reference numbers listed in Appendix A of USACE <i>The Highway Methodology Workbook Supplement</i>. Second, indicate which functions and values are principal ("Principal Function/value?" column). As described in <i>The Highway Methodology Workbook Supplement</i>, "functions and values can be principal if they are an important physical component of a wetland ecosystem (function only) and/or are considered of special value to society, from a local, regional, and/or national perspective". "Important Notes" are to include characteristics the evaluator used to determine the principal function and value of the wetland.</p>	

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FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE (Reference #)	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
2	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
3	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
4	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
6	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
7	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
8	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
9	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
10	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
11	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
13	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
14	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	

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SECTION 5 - VERNAL POOL SUMMARY (Env-Wt 311.10)

Delineations of vernal pools shall be based on the characteristics listed in the definition of “vernal pool” in Env-Wt 104.44. To assist in the delineation, individuals may use either of the following references:

- *Identifying and Documenting Vernal Pools in New Hampshire 3rd Ed.*, 2016, published by the New Hampshire Fish and Game Department; or
- The USACE *Vernal Pool Assessment* draft guidance dated 9-10-2013 and form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

All vernal pool ID numbers are to be displayed and located on the wetland delineation of the subject property.

“Important Notes” are to include documented reproductive and wildlife values, landscape context, and relationship to other vernal pools/wetlands.

Note: For projects seeking federal approval from the USACE, please attach a completed copy of The USACE “Vernal Pool Assessment” form dated 9-6-2016, Appendix L of the USACE New England District *Compensatory Mitigation Guidance*.

VERNAL POOL ID NUMBER	DATE(S) OBSERVED	PRIMARY INDICATORS PRESENT (LIST)	SECONDARY INDICATORS PRESENT (LIST)	LENGTH OF HYDROPERIOD	IMPORTANT NOTES
1	NA				
2	NA				
3	NA				
4	NA				
5	NA				

SECTION 6 - STREAM RESOURCES SUMMARY

DESCRIPTION OF STREAM: Perennial/Tidal River	STREAM TYPE (ROSGEN): DA closest
HAVE FISHERIES BEEN DOCUMENTED? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	DOES THE STREAM SYSTEM APPEAR STABLE? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
OTHER KEY ON-SITE FUNCTIONS OF NOTE: NA	

The following table can be used to compile data on stream resources. “Important Notes” are to include characteristics the evaluator used to determine principal function and value of each stream. The functions and values reference number are defined in Section 4.

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FUNCTIONS/ VALUES	SUITABILITY (Y/N)	RATIONALE	PRINCIPAL FUNCTION/VALUE? (Y/N)	IMPORTANT NOTES
1	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1A-4A	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	EI of EU high, EI of Zone of Influence low
2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,5,8-11,13,15	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Excellent public access nearby
3	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	17 fish species per NOAA
4	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4,10,11,13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Coastal surge abatement but no surface detention
5	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7,10,12,15	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Not applicable to tidal systems
6	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,2	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Marsh elder per NHB, Fauna per IPaC
7	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1-5,7,10,14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	sediment retention
8	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2-6,10-11	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Tides, Seaweed
9	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,2,6,8,9,12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	East access, Primary viewing locations
10	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,4,8,10,11	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Four tree island causeway promotes settling
11	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3,6,8-11,16	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Opportunity, Riprap
12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,3,8-14,16-19,22,24,27,31	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Local significance, history, park, fish pier
13	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1,2,8,9,10-12	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Public boat launch nearby
14	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6,8,21	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Highest rank per WAP & NWI re: waterfowl

SECTION 7 - ATTACHMENTS (USACE HIGHWAY METHODOLOGY; Env-Wt 311.10)

- Wildlife and vegetation diversity/abundance list.
- Photograph of wetland.
- Wetland delineation plans showing wetlands, vernal pools, and streams in relation to the impact area and surrounding landscape. Wetland IDs, vernal pool IDs, and stream IDs must be indicated on the plans.
- For projects in tidal areas only: additional information required by Env-Wt 603.03/603.04. Please refer to the [Coastal Area Worksheet \(NHDES-W-06-079\)](#) for more information.

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Wetland Function-Value Evaluation Form

Wetland I.D. Piscataqua River
 Latitude 43 04' 32.64" Longitude 70 44' 56.09"
 Prepared by: M. Jacobs Date _____
 Wetland Impact:
 Type Possible Secondary / Indirect Area **6,110 SF**

Total area of wetland unlimited Human made? part-poss Is wetland part of a wildlife corridor? Yes or a "habitat island"? No
 Adjacent land use Commercial-Fish Pier, Parks, Parking Distance to nearest roadway or other development 0-150'
 Dominant wetland systems present E1UBL, E2US3M Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Not isolated If not, where does the wetland lie in the drainage basin? Bottom / Tidal
 How many tributaries contribute to the wetland? unlimited Wildlife & vegetation diversity/abundance (see attached list)

Evaluation based on:
 Office YES Field Yes
 Corps manual wetland delineation completed? Y N No

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	N	7, 10, 12, 15	N	7-perennial, 15-tidal
Floodflow Alteration	Y	4, 10, 11, 13	Y	Coastal storm surge abatement, no surface detention
Fish and Shellfish Habitat	Y	1-6	Y	Mudflats, Fish Habitat per NOAA etc.
Sediment/Toxicant Retention	Y	1, 4, 8, 10, 11	Y	Four Tree Island cove promotes settling
Nutrient Removal	Y	1-5, 7, 10, 14	Y	Association w/sediment retention
Production Export	Y	2-6, 10-11	Y	Seaweed
Sediment/Shoreline Stabilization	Y	3, 6, 8-11, 16	Y	Opportunity, Significant shoreline riprap, Sheet piling, Moderate per NWI
Wildlife Habitat	Y	6, 8, 21	Y	Moderate overall, High for waterfowl, Highest ranked per WAP
Recreation	Y	1, 2, 8, 9, 10-12	Y	Public boat launch across Peirce Island Road from subject
Educational/Scientific Value	Y	1, 5, 8-11, 13, 15	Y	Public access and parking across street, Four Tree Island
Uniqueness/Heritage	Y	1, 3, 8-14, 16-19, 22, 24, 27, 31	Y	Local significance, Commercial fish pier
Visual Quality/Aesthetics	Y	1, 2, 6, 8, 9, 12	Y	Easy access, Primary viewing location
ES Endangered Species Habitat	Y	1, 2	Y	Per USF&W IPaC
Other Ecological Integrity	Y	1A-4A	Y	Mostly for evaluation unit, Not zone of influence

Notes: * Refer to backup list of numbered considerations.

Appendix A

Wetland evaluation supporting documentation; Reproducible forms.

Below is an example list of considerations that was used for a New Hampshire highway project. Considerations are flexible, based on best professional judgment and interdisciplinary team consensus. This example provides a comprehensive base, however, and may only need slight modifications for use in other projects.



GROUNDWATER RECHARGE/DISCHARGE— This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. It refers to the fundamental interaction between wetlands and aquifers, regardless of the size or importance of either.

CONSIDERATIONS/QUALIFIERS

1. Public or private wells occur downstream of the wetland.
2. Potential exists for public or private wells downstream of the wetland.
3. Wetland is underlain by stratified drift.
4. Gravel or sandy soils present in or adjacent to the wetland.
5. Fragipan does not occur in the wetland.
6. Fragipan, impervious soils, or bedrock does occur in the wetland.
7. Wetland is associated with a perennial or intermittent watercourse.
8. Signs of groundwater recharge are present or piezometer data demonstrates recharge.
9. Wetland is associated with a watercourse but lacks a defined outlet or contains a constricted outlet.
10. Wetland contains only an outlet, no inlet.
11. Groundwater quality of stratified drift aquifer within or downstream of wetland meets drinking water standards.
12. Quality of water associated with the wetland is high.
13. Signs of groundwater discharge are present (e.g., springs).
14. Water temperature suggests it is a discharge site.
15. Wetland shows signs of variable water levels.
16. Piezometer data demonstrates discharge.
17. Other



FLOODFLOW ALTERATION (Storage & Desynchronization) — This function considers the effectiveness of the wetland in reducing flood damage by water retention for prolonged periods following precipitation events and the gradual release of floodwaters. It adds to the stability of the wetland ecological system or its buffering characteristics and provides social or economic value relative to erosion and/or flood prone areas.

CONSIDERATIONS/QUALIFIERS

1. Area of this wetland is large relative to its watershed.
2. Wetland occurs in the upper portions of its watershed.
3. Effective flood storage is small or non-existent upslope of or above the wetland.
4. Wetland watershed contains a high percent of impervious surfaces.
5. Wetland contains hydric soils which are able to absorb and detain water.
6. Wetland exists in a relatively flat area that has flood storage potential.
7. Wetland has an intermittent outlet, ponded water, or signs are present of variable water level.
8. During flood events, this wetland can retain higher volumes of water than under normal or average rainfall conditions.
9. Wetland receives and retains overland or sheet flow runoff from surrounding uplands.
10. In the event of a large storm, this wetland may receive and detain excessive flood water from a nearby watercourse.
11. Valuable properties, structures, or resources are located in or near the floodplain downstream from the wetland.
12. The watershed has a history of economic loss due to flooding.
13. This wetland is associated with one or more watercourses.
14. This wetland watercourse is sinuous or diffuse.
15. This wetland outlet is constricted.
16. Channel flow velocity is affected by this wetland.
17. Land uses downstream are protected by this wetland.
18. This wetland contains a high density of vegetation.
19. Other

FISH AND SHELLFISH HABITAT (FRESHWATER) — This function considers the effectiveness of seasonal or permanent watercourses associated with the wetland in question for fish and shellfish habitat.



CONSIDERATIONS/QUALIFIERS

1. Forest land dominant in the watershed above this wetland.
2. Abundance of cover objects present.

STOP HERE IF THIS WETLAND IS NOT ASSOCIATED WITH A WATERCOURSE

3. Size of this wetland is able to support large fish/shellfish populations.
4. Wetland is part of a larger, contiguous watercourse.
5. Wetland has sufficient size and depth in open water areas so as not to freeze solid and retain some open water during winter.
6. Stream width (bank to bank) is more than 50 feet.
7. Quality of the watercourse associated with this wetland is able to support healthy fish/shellfish populations.
8. Streamside vegetation provides shade for the watercourse.
9. Spawning areas are present (submerged vegetation or gravel beds).
10. Food is available to fish/shellfish populations within this wetland.
11. Barrier(s) to anadromous fish (such as dams, including beaver dams, waterfalls, road crossing) are absent from the stream reach associated with this wetland.
12. Evidence of fish is present.
13. Wetland is stocked with fish.
14. The watercourse is persistent.
15. Man-made streams are absent.
16. Water velocities are not too excessive for fish usage.
17. Defined stream channel is present.
18. Other

Although the above example refers to freshwater wetlands, it can also be adapted for marine ecosystems. The following is an example provided by the National Marine Fisheries Service (NMFS) of an adaptation for the fish and shellfish function.

FISH AND SHELLFISH HABITAT (MARINE) — This function considers the effectiveness of wetlands, embayments, tidal flats, vegetated shallows, and other environments in supporting marine resources such as fish, shellfish, marine mammals, and sea turtles.

CONSIDERATIONS/QUALIFIERS

1. Special aquatic sites (tidal marsh, mud flats, eelgrass beds) are present.
2. Suitable spawning habitat is present at the site or in the area.
3. Commercially or recreationally important species are present or suitable habitat exists.
4. The wetland/waterway supports prey for higher trophic level marine organisms.
5. The waterway provides migratory habitat for anadromous fish.
6. Essential fish habitat, as defined by the 1996 amendments to the Magnuson-Stevens Fishery & Conservation Act, is present (consultation with NMFS may be necessary).
7. Other



SEDIMENT/TOXICANT/PATHOGEN RETENTION — This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants, or pathogens in runoff water from surrounding uplands or upstream eroding wetland areas.

CONSIDERATIONS/QUALIFIERS

1. Potential sources of excess sediment are in the watershed above the wetland.
2. Potential or known sources of toxicants are in the watershed above the wetland.
3. Opportunity for sediment trapping by slow moving water or deepwater habitat are present in this wetland.
4. Fine grained mineral or organic soils are present.
5. Long duration water retention time is present in this wetland.
6. Public or private water sources occur downstream.
7. The wetland edge is broad and intermittently aerobic.
8. The wetland is known to have existed for more than 50 years.
9. Drainage ditches have not been constructed in the wetland.

STOP HERE IF WETLAND IS NOT ASSOCIATED WITH A WATERCOURSE.

10. Wetland is associated with an intermittent or perennial stream or a lake.
11. Channelized flows have visible velocity decreases in the wetland.
12. Effective floodwater storage in wetland is occurring. Areas of impounded open water are present.
13. No indicators of erosive forces are present. No high water velocities are present.
14. Diffuse water flows are present in the wetland.
15. Wetland has a high degree of water and vegetation interspersion.
16. Dense vegetation provides opportunity for sediment trapping and/or signs of sediment accumulation by dense vegetation is present.
17. Other



NUTRIENT REMOVAL/RETENTION/TRANSFORMATION — This function considers the effectiveness of the wetland as a trap for nutrients in runoff water from surrounding uplands or contiguous wetlands and the ability of the wetland to process these nutrients into other forms or trophic levels. One aspect of this function is to prevent ill effects of nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers, or estuaries.

CONSIDERATIONS/QUALIFIERS

1. Wetland is large relative to the size of its watershed.
2. Deep water or open water habitat exists.
3. Overall potential for sediment trapping exists in the wetland.

4. Potential sources of excess nutrients are present in the watershed above the wetland.
 5. Wetland saturated for most of the season. Pondered water is present in the wetland.
 6. Deep organic/sediment deposits are present.
 7. Slowly drained fine grained mineral or organic soils are present.
 8. Dense vegetation is present.
 9. Emergent vegetation and/or dense woody stems are dominant.
 10. Opportunity for nutrient attenuation exists.
 11. Vegetation diversity/abundance sufficient to utilize nutrients.
- STOP HERE IF WETLAND IS NOT ASSOCIATED WITH A WATERCOURSE.
12. Waterflow through this wetland is diffuse.
 13. Water retention/detention time in this wetland is increased by constricted outlet or thick vegetation.
 14. Water moves slowly through this wetland.
 15. Other

PRODUCTION EXPORT (Nutrient) — This function evaluates the effectiveness of the wetland to produce food or usable products for humans or other living organisms.



CONSIDERATIONS/QUALIFIERS

1. Wildlife food sources grow within this wetland.
2. Detritus development is present within this wetland.
3. Economically or commercially used products found in this wetland.
4. Evidence of wildlife use found within this wetland.
5. Higher trophic level consumers are utilizing this wetland.
6. Fish or shellfish develop or occur in this wetland.
7. High vegetation density is present.
8. Wetland exhibits high degree of plant community structure/species diversity.
9. High aquatic vegetative diversity/abundance is present.
10. Nutrients exported in wetland watercourses (permanent outlet present).
11. "Flushing" of relatively large amounts of organic plant material occurs from this wetland.
12. Wetland contains flowering plants that are used by nectar-gathering insects.
13. Indications of export are present.
14. High production levels occurring, however, no visible signs of export (assumes export is attenuated).
15. Other

SEDIMENT/ShORELINE STABILIZATION — This function considers the effectiveness of a wetland to stabilize streambanks and shorelines against erosion.



CONSIDERATIONS/QUALIFIERS

1. Indications of erosion or siltation are present.
2. Topographical gradient is present in wetland.
3. Potential sediment sources are present up-slope.
4. Potential sediment sources are present upstream.
5. No distinct shoreline or bank is evident between the waterbody and the wetland or upland.
6. A distinct step between the open waterbody or stream and the adjacent land exists (i.e., sharp bank) with dense roots throughout.
7. Wide wetland (>10') borders watercourse, lake, or pond.
8. High flow velocities in the wetland.
9. The watershed is of sufficient size to produce channelized flow.
10. Open water fetch is present.
11. Boating activity is present.
12. Dense vegetation is bordering watercourse, lake, or pond.
13. High percentage of energy-absorbing emergents and/or shrubs border a watercourse, lake, or pond.
14. Vegetation is comprised of large trees and shrubs that withstand major flood events or erosive incidents and stabilize the shoreline on a large scale (feet).
15. Vegetation is comprised of a dense resilient herbaceous layer that stabilizes sediments and the shoreline on a small scale (inches) during minor flood events or potentially erosive events.
16. Other



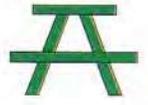
WILDLIFE HABITAT — This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and/or migrating species must be considered. Species lists of observed and potential animals should be included in the wetland assessment report.¹

CONSIDERATIONS/QUALIFIERS

1. Wetland is not degraded by human activity.
2. Water quality of the watercourse, pond, or lake associated with this wetland meets or exceeds Class A or B standards.
3. Wetland is not fragmented by development.
4. Upland surrounding this wetland is undeveloped.
5. More than 40% of this wetland edge is bordered by upland wildlife habitat (e.g., brushland, woodland, active farmland, or idle land) at least 500 feet in width.
6. Wetland is contiguous with other wetland systems connected by a watercourse or lake.
7. Wildlife overland access to other wetlands is present.
8. Wildlife food sources are within this wetland or are nearby.
9. Wetland exhibits a high degree of interspersions of vegetation classes and/or open water.
10. Two or more islands or inclusions of upland within the wetland are present.
11. Dominant wetland class includes deep or shallow marsh or wooded swamp.
12. More than three acres of shallow permanent open water (less than 6.6 feet deep), including streams in or adjacent to wetland, are present.
13. Density of the wetland vegetation is high.
14. Wetland exhibits a high degree of plant species diversity.
15. Wetland exhibits a high degree of diversity in plant community structure (e.g., tree/shrub/vine/grasses/mosses)
16. Plant/animal indicator species are present. (List species for project)
17. Animal signs observed (tracks, scats, nesting areas, etc.)
18. Seasonal uses vary for wildlife and wetland appears to support varied population diversity/abundance during different seasons.
19. Wetland contains or has potential to contain a high population of insects.
20. Wetland contains or has potential to contain large amphibian populations.
21. Wetland has a high avian utilization or its potential.
22. Indications of less disturbance-tolerant species are present.
23. Signs of wildlife habitat enhancement are present (birdhouses, nesting boxes, food sources, etc.).
24. Other

¹In March 1995, a rapid wildlife habitat assessment method was completed by a University of Massachusetts research team with funding and oversight provided by the New England Transportation Consortium. The method is called WETHings (wetland habitat indicators for non-game species). It produces a list of potential wetland-dependent mammal, reptile, and amphibian species that may be present in the wetland. The output is based on observable habitat characteristics documented on the field data form. This method may be used to generate the wildlife species list recommended as backup information to the wetland evaluation form and to augment the considerations. Use of this method should first be coordinated with the Corps project manager. A computer program is also available to expedite this process.

RECREATION (Consumptive and Non-Consumptive) — This value considers the suitability of the wetland and associated watercourses to provide recreational opportunities such as hiking, canoeing, boating, fishing, hunting, and other active or passive recreational activities. Consumptive opportunities consume or diminish the plants, animals, or other resources that are intrinsic to the wetland. Non-consumptive opportunities do not consume or diminish these resources of the wetland.



CONSIDERATIONS/QUALIFIERS

1. Wetland is part of a recreation area, park, forest, or refuge.
2. Fishing is available within or from the wetland.
3. Hunting is permitted in the wetland.
4. Hiking occurs or has potential to occur within the wetland.
5. Wetland is a valuable wildlife habitat.
6. The watercourse, pond, or lake associated with the wetland is unpolluted.
7. High visual/aesthetic quality of this potential recreation site.
8. Access to water is available at this potential recreation site for boating, canoeing, or fishing.
9. The watercourse associated with this wetland is wide and deep enough to accommodate canoeing and/or non-powered boating.
10. Off-road public parking available at the potential recreation site.
11. Accessibility and travel ease is present at this site.
12. The wetland is within a short drive or safe walk from highly populated public and private areas.
13. Other

EDUCATIONAL/SCIENTIFIC VALUE — This value considers the suitability of the wetland as a site for an “outdoor classroom” or as a location for scientific study or research.



CONSIDERATIONS/QUALIFIERS

1. Wetland contains or is known to contain threatened, rare, or endangered species.
2. Little or no disturbance is occurring in this wetland.
3. Potential educational site contains a diversity of wetland classes which are accessible or potentially accessible.
4. Potential educational site is undisturbed and natural.
5. Wetland is considered to be a valuable wildlife habitat.
6. Wetland is located within a nature preserve or wildlife management area.
7. Signs of wildlife habitat enhancement present (bird houses, nesting boxes, food sources, etc.).
8. Off-road parking at potential educational site suitable for school bus access in or near wetland.
9. Potential educational site is within safe walking distance or a short drive to schools.
10. Potential educational site is within safe walking distance to other plant communities.
11. Direct access to perennial stream at potential educational site is available.
12. Direct access to pond or lake at potential educational site is available.
13. No known safety hazards exist within the potential educational site.
14. Public access to the potential educational site is controlled.
15. Handicap accessibility is available.
16. Site is currently used for educational or scientific purposes.
17. Other



UNIQUENESS/HERITAGE — This value considers the effectiveness of the wetland or its associated waterbodies to provide certain special values. These may include archaeological sites, critical habitat for endangered species, its overall health and appearance, its role in the ecological system of the area, its relative importance as a typical wetland class for this geographic location. These functions are clearly valuable wetland attributes relative to aspects of public health, recreation, and habitat diversity.

CONSIDERATIONS/QUALIFIERS

1. Upland surrounding wetland is primarily urban.
2. Upland surrounding wetland is developing rapidly.
3. More than 3 acres of shallow permanent open water (less than 6.6 feet deep), including streams, occur in wetlands.
4. Three or more wetland classes are present.
5. Deep and/or shallow marsh or wooded swamp dominate.
6. High degree of interspersion of vegetation and/or open water occur in this wetland.
7. Well-vegetated stream corridor (15 feet on each side of the stream) occurs in this wetland.
8. Potential educational site is within a short drive or a safe walk from schools.
9. Off-road parking at potential educational site is suitable for school buses.
10. No known safety hazards exist within this potential educational site.
11. Direct access to perennial stream or lake exists at potential educational site.
12. Two or more wetland classes are visible from primary viewing locations.
13. Low-growing wetlands (marshes, scrub-shrub, bogs, open water) are visible from primary viewing locations.
14. Half an acre of open water or 200 feet of stream is visible from the primary viewing locations.
15. Large area of wetland is dominated by flowering plants or plants that turn vibrant colors in different seasons.
16. General appearance of the wetland visible from primary viewing locations is unpolluted and/or undisturbed.
17. Overall view of the wetland is available from the surrounding upland.
18. Quality of the water associated with the wetland is high.
19. Opportunities for wildlife observations are available.
20. Historical buildings are found within the wetland.
21. Presence of pond or pond site and remains of a dam occur within the wetland.
22. Wetland is within 50 yards of the nearest perennial watercourse.
23. Visible stone or earthen foundations, berms, dams, standing structures, or associated features occur within the wetland.
24. Wetland contains critical habitat for a state- or federally-listed threatened or endangered species.
25. Wetland is known to be a study site for scientific research.
26. Wetland is a natural landmark or recognized by the state natural heritage inventory authority as an exemplary natural community.
27. Wetland has local significance because it serves several functional values.
28. Wetland has local significance because it has biological, geological, or other features that are locally rare or unique.
29. Wetland is known to contain an important archaeological site.
30. Wetland is hydrologically connected to a state or federally designated scenic river.
31. Wetland is located in an area experiencing a high wetland loss rate.
32. Other

VISUAL QUALITY/AESTHETICS — This value considers the visual and aesthetic quality or usefulness of the wetland.



CONSIDERATIONS/QUALIFIERS

1. Multiple wetland classes are visible from primary viewing locations.
2. Emergent marsh and/or open water are visible from primary viewing locations.
3. A diversity of vegetative species is visible from primary viewing locations.
4. Wetland is dominated by flowering plants or plants that turn vibrant colors in different seasons.
5. Land use surrounding the wetland is undeveloped as seen from primary viewing locations.
6. Visible surrounding land use form contrasts with wetland.
7. Wetland views absent of trash, debris, and signs of disturbance.
8. Wetland is considered to be a valuable wildlife habitat.
9. Wetland is easily accessed.
10. Low noise level at primary viewing locations.
11. Unpleasant odors absent at primary viewing locations.
12. Relatively unobstructed sight line exists through wetland.
13. Other

ENDANGERED SPECIES HABITAT — This value considers the suitability of the wetland to support threatened or endangered species.

ES

CONSIDERATIONS/QUALIFIERS

1. Wetland contains or is known to contain threatened or endangered species.
2. Wetland contains critical habitat for a state or federally listed threatened or endangered species.

PORTSMOUTH FISH PIER



Legend

- NH Parcels
- Additional Lines
- City/Town
- Impervious Surfaces in the of NH and Maine as of 20

ATTACHMENT 17

Map Scale
1: 1,624

© NH GRANIT, www.granit.unh.edu
Map Generated: 9/9/2024

Notes

IMPERVIOUS SURFACES AS OF 2021

PORTSMOUTH FISH PIER

Legend

- NH Parcels
- Additional Lines
- City/Town
- Surface Waters with Impa
Quarter Mile Buffer
- Watersheds with Chloride

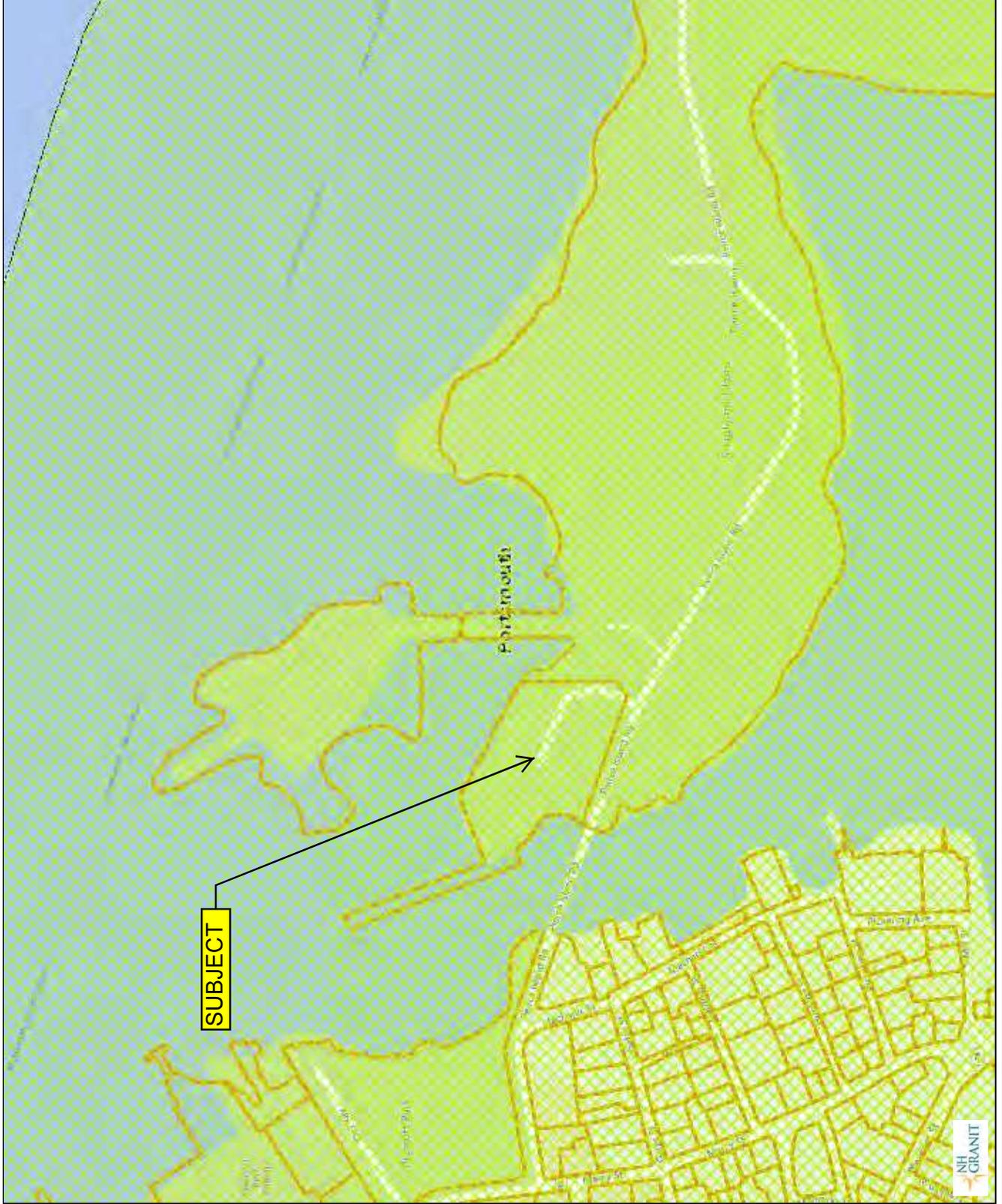
ATTACHMENT 18

Map Scale
1:3,247

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Map Generated: 9/16/2024

Notes

IMPAIRED WATERS



Portsmouth Commercial Fish Pier
One Peirce Island Road
Portsmouth, NH
September 16, 2024

APPENDIX



Image 1 – Looking easterly from the bridge over the river.



Image 2 - Looking northerly from the bridge over the river. Note the pier on left, Four Tree Island and Portsmouth Naval Shipyard.



Image 3 - Looking northwesterly from the bridge at the pier and Piscataqua river. Note the Gundalow on left and Memorial Bridge.



Image 4 - Looking southwesterly from Four Tree Island. Note the marsh elder and salt marsh in the foreground. Note the commercial fish pier property in the background.

Appendix B – Site Plans

CIVIL NOTES

- VERIFY EXISTING CONDITIONS AND DIMENSIONS, AND REPORT DISCREPANCIES TO THE OWNERS REPRESENTATIVE. PROCEED WITH THE WORK ONLY AFTER THE DISCREPANCY(IES) HAS(HAVE) BEEN RESOLVED BY THE OWNERS REPRESENTATIVE.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON RECORD DRAWINGS AND/OR FIELD SURVEYS AND ARE APPROXIMATE. DETERMINE THE EXACT LOCATION OF ALL APPLICABLE UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. CONTACT "DIG SAFE" AT 1-888-344-7233 AND OBTAIN A "DIG SAFE" PERMIT PRIOR TO COMMENCING EXCAVATION OPERATIONS ON THE SITE.
- COMPONENTS ARE NEW WITHIN THE LIMIT(S) OF WORK AND ARE TO BE PROVIDED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
- AT THE END OF EACH WORKING DAY, LEAVE THE CONSTRUCTION SITE IN A SAFE AND ORDERLY CONDITION ACCEPTABLE TO THE OWNERS REPRESENTATIVE.
- PROTECT EXISTING SYSTEMS AND SURFACES TO REMAIN. REPAIR OR REPLACE DAMAGE RESULTING FROM THE CONTRACTORS OPERATIONS AS APPROVED BY THE OWNERS REPRESENTATIVE AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE WORK IN COMPLIANCE WITH INDUSTRY STANDARDS AND IN A WORKMANLIKE PROFESSIONAL MANNER.
- PROVIDE WORK AND MATERIALS INCLUDED IN THIS CONTRACT THAT CONFORM TO STATE, FEDERAL AND OTHER CODES AND ORDINANCES WHICH APPLY TO THIS PROJECT.
- THE FOLLOWING PERMIT HAS BEEN OBTAINED BY THE OWNER TO ALLOW FOR THE COMPLETION OF WORK. ALL KNOWN CONDITIONS THAT WILL AFFECT THE CONTRACT HAVE BEEN INCLUDED IN THE SCOPE OF WORK IDENTIFIED ON THE DRAWINGS AND SPECIFICATIONS. ABIDE BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMIT.
A. NHDES WETLANDS PERMIT.
- COORDINATE WORK ASSOCIATED WITH ELECTRIC AND COMMUNICATIONS SERVICE WITH EVERSOURCE, COMAST AND CONSOLIDATED COMMUNICATIONS. PROVIDE UTILITY SERVICE CONSTRUCTION IN ACCORDANCE WITH UTILITY COMPANY STANDARDS AND REQUIREMENTS.
- PAY UTILITY COMPANY FEES FOR WORK BY THE UTILITY COMPANY INDICATED/REQUIRED ON THE CONTRACT DOCUMENTS DIRECTLY TO THE UTILITY COMPANY.
- PROVIDE WATER SERVICE WORK IN ACCORDANCE WITH CITY OF PORTSMOUTH WATER DIVISION STANDARDS AND SPECIFICATIONS. COORDINATE AND ARRANGE FOR WORK AND INSPECTIONS REQUIRED BY CITY OF PORTSMOUTH WATER DIVISION.
- RESTORE TURF AREAS DISTURBED OR RUTTED DUE TO CONSTRUCTION ACTIVITIES TO MEET OR EXCEED PRECONSTRUCTION CONDITIONS. SPREAD TOPSOIL TO FILL DEPRESSION OR DISTURBANCE, FINE GRADE, SEED, MULCH AND FERTILIZE. MAINTAIN SEEDED AREAS TO ESTABLISH SATISFACTORY TURF CONDITIONS (90% VEGETATION COVER).
- PROVIDE A MINIMUM OF 4 INCHES OF TOPSOIL (LOAM), SEED, MULCH AND FERTILIZER FOR ALL DISTURBED AREAS NOT OTHERWISE SPECIFIED.
- PROVIDE LOAM (TOPSOIL), SEED (PARK SEED), MULCH, FERTILIZER AND TURF ESTABLISHMENT IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS:
 - SECTION 641 - LOAM
 - SECTION 642 - LIMESTONE
 - SECTION 643 - FERTILIZER FOR GRASSES
 - SECTION 644 - GRASS SEED
 - SECTION 645 - EROSION CONTROL
 - SECTION 646 - TURF ESTABLISHMENT

EROSION AND SEDIMENT CONTROL NOTES

- A. GENERAL NOTES
- DURING CONSTRUCTION AND THEREAFTER, PROVIDE EROSION CONTROL MEASURES AS INDICATED AND SPECIFIED. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH THE "NEW HAMPSHIRE STORM WATER MANUAL".
 - TEMPORARY EROSION CONTROL MEASURES INCLUDE THE USE OF EROSION CONTROL DEVICES AND PROVISIONS FOR STABILIZING INACTIVE AREAS. PERMANENT EROSION CONTROL MEASURES INCLUDE RESTORATION OF PAVEMENT AND PERMANENT SEEDING AND MULCH.
 - PROVIDE PERIMETER EROSION CONTROLS PRIOR TO BEGINNING EARTH DISTURBING ACTIVITIES.
 - PROVIDE EROSION CONTROL MEASURES TO CONTROL EROSION AND SEDIMENTATION FROM THE PROJECT SITE. THE MEASURES INDICATED ON THE DRAWINGS ARE A MINIMUM TO BE PROVIDED. PROVIDE ADDITIONAL MEASURES AS NECESSARY AND APPLICABLE TO CONTROL EROSION AND SEDIMENTATION FROM LEAVING THE PROJECT AREA.
 - AN AREA WILL BE CONSIDERED STABLE IF THE FOLLOWING HAS OCCURRED:
 - BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED.
 - A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
 - STABILIZE ROADWAYS AND PARKING LOTS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

B. INSPECTION AND MAINTENANCE

- INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, AREAS USED FOR STORAGE THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE PROJECT AREA AT LEAST ONCE A WEEK AND BEFORE AND AFTER EACH STORM EVENT, GREATER THAN 0.1", PRIOR TO COMPLETION OF PERMANENT STABILIZATION. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE NPDES STANDARDS MUST CONDUCT THE INSPECTION. THIS PERSON MUST BE IDENTIFIED IN THE INSPECTION LOG. IF BEST MANAGEMENT PRACTICES (BMPs) NEED TO BE MODIFIED OR IF ADDITIONAL BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.
- KEEP AND MAINTAIN A LOG (REPORT) SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, AND MAJOR OBSERVATIONS RELATING TO OPERATION OF EROSION AND SEDIMENTATION CONTROLS AND POLLUTION PREVENTION MEASURES. MAJOR OBSERVATIONS MUST INCLUDE: BMPs THAT NEED TO BE MAINTAINED; LOCATION(S) OF BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION; AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED THAT DID NOT EXIST AT THE TIME OF INSPECTION. FOLLOW-UP TO CORRECT DEFICIENCIES OR ENHANCE CONTROLS MUST ALSO BE INDICATED IN THE LOG AND DATED, INCLUDING WHAT ACTION WAS TAKEN AND WHEN.
- MAINTAIN EROSION CONTROL MEASURES FOR THE LIFE OF THE PROJECT AND UNTIL PERMANENT STABILIZATION OF THE ENTIRE SITE IS ESTABLISHED.
- PROTECT STABILIZED AREAS FROM EROSION AND IMMEDIATELY REPAIR/REVEGETATE ERODED AREAS.
- REMOVE TEMPORARY EROSION CONTROL MEASURES WITHIN 30 DAYS AFTER THE TRIBUTARY AREA HAS BEEN PERMANENTLY STABILIZED. REMOVE ANY ACCUMULATED SEDIMENTS.

C. SOIL STOCKPILE STABILIZATION

- COVER SOIL AND FILL STOCKPILES WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.
- PROVIDE A SOIL SEDIMENT BARRIER (e.g. COMPOST FILTER SOCK) AROUND THE DOWNHILL EDGE OF THE STOCKPILE TO TRAP SEDIMENTS.
- LOCATE SOIL STOCKPILE AT LEAST 100 FEET FROM ANY WETLAND OR OTHER WATER BODY.

D. WINTER STABILIZATION

- THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 15 THROUGH MAY 15. IF THE SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 85% MATURE VEGETATION COVER BY OCTOBER 15 THEN THE SITE SHALL BE PROTECTED WITH OVER-WINTER STABILIZATION.
- AFTER NOVEMBER 15TH, INCOMPLETE PAVED AREAS WHERE ACTIVE CONSTRUCTION OF THE PAVED AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE (NHDOT ITEM 304.3).
 - VEGETATED AREAS: PROVIDE SEED AND COVER WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING, OR 2 INCHES OF EROSION CONTROL MIX WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.

E. OFF-SITE VEHICLE TRACKING

- SWEEP ADJACENT PAVED AREAS AND ROADS AS NECESSARY AND AS DIRECTED BY THE OWNERS REPRESENTATIVE TO KEEP THEM FREE OF SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES.

F. HOUSEKEEPING

- STORE WASTE MATERIALS IN SECURELY LIDDED RECEPTACLES. TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER PROVIDED BY THE CONTRACTOR. DO NOT BURY CONSTRUCTION WASTE MATERIALS ON-SITE.
- DISPOSE OF HAZARDOUS WASTE MATERIALS IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIONS OR BY THE MANUFACTURER.
- STORE MATERIALS ON-SITE IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINER AND IF POSSIBLE UNDER A ROOF OR OTHER ENCLOSURE. STORE ONLY SUFFICIENT AMOUNTS OF MATERIALS TO COMPLETE THE JOB.
- DISPOSE OF SURPLUS MATERIALS IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, STATE AND FEDERAL CODES.
- MONITOR CONSTRUCTION RELATED EQUIPMENT AND VEHICLES FOR LEAKS AND PROVIDE REGULAR PREVENTATIVE MAINTENANCE TO AVOID LEAKAGE.

G. CONSTRUCTION DEWATERING

- IF DEWATERING OF EXCAVATIONS IS NECESSARY, INFILTRATE DEWATERING WASTEWATER INTO THE GROUND USING INFILTRATION PITS OR UTILIZE GEOTEXTILE FILTER BAG (SEE 4/C-502). PHASE CONSTRUCTION ACTIVITIES AROUND THE TIDE CYCLE TO AVOID CONSTRUCTION DEWATERING.

CIVIL LEGEND

	EXISTING BUILDING
	EXISTING PROPERTY LINE
	EXISTING HIGHEST OBSERVABLE TIDE LINE
	EXISTING LIMIT OF TIDAL BUFFER ZONE
	EXISTING LIMIT OF FLOOD HAZARD AREA
	EXISTING STRUCTURE ROOF OVERHANG
	EXISTING EDGE OF PAVEMENT
	EXISTING EDGE OF CONCRETE
	EXISTING FENCE
	EXISTING WOOD GUARDRAIL
	EXISTING GRADE CONTOUR LINE
	EXISTING WATER LINE
	EXISTING SANITARY FORCE MAIN
	EXISTING UNDERGROUND ELECTRIC AND COMMUNICATIONS LINE
	EXISTING OVERHEAD WIRES
	EXISTING UNDERGROUND FUEL LINES (GAS AND DIESEL)
	EXISTING ABANDONED WATER LINE
	EXISTING ABANDONED UNDERGROUND ELECTRIC LINE
	EXISTING TRANSFORMER ON CONCRETE PAD
	EXISTING GRADE SPOT ELEVATION
	EXISTING UTILITY POLE
	EXISTING WATER SHUTOFF
	EXISTING SEWER MANHOLE
	EXISTING SEWER PUMP STATION
	EXISTING CATCH BASIN
	EXISTING HYDRANT
	EXISTING LIGHT POLE AND FIXTURE
	EXISTING BOLLARD
	EXISTING SOIL TEST LOCATION
	EXISTING TREE
	EXISTING RIPRAP
	EXISTING CONCRETE PAD/SLAB
	EXISTING WETLAND CLASSIFICATION CODE

CIVIL ABBREVIATIONS

APPROX	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BMPs	BEST MANAGEMENT PRACTICES
CONC	CONCRETE
D	DEPTH
DIA	DIAMETER
E	EXISTING
ELEV	ELEVATION
EQ	EQUAL
EXIST	EXISTING
F	FINISH
FFE	FINISH FLOOR ELEVATION
FPE	FINISH PAD ELEVATION
GAL	GALLON
GALV	GALVANIZED
GFA	GROUND FLOOR AREA
GPM	GALLONS PER MINUTE
HLA	HIGH LEVEL ALARM
L	LENGTH
MAG	MAGNETIC
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
NAD83	NORTH AMERICAN DATUM 1983
NAVD88	NORTH AMERICAN VERTICAL DATUM 1988
NHDES	NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES
NHDOT	NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION
NPDES	NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

	BUILDING LINE
	SAWCUT EXISTING PAVEMENT
	WATER LINE (PIPE SIZE AS NOTED)
	COMMUNICATIONS LINE (CONDUIT SIZE AS NOTED)
	SANITARY FORCE MAIN (PIPE SIZE AS NOTED)
	COMPOST FILTER SOCK
	FINISH GRADE CONTOUR LINE
	EDGE OF PAVEMENT
	EDGE OF CONCRETE
	FINISH GRADE SPOT ELEVATION
	BOLLARD
	SEWER PUMP STATION
	CONCRETE PAD/SLAB



DESIGNED BY: SES
 DRAWN BY: SES
 CHECKED BY: SES
 PROJECT: 22304.21

PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS
 555 Market Street
 Portsmouth, NH

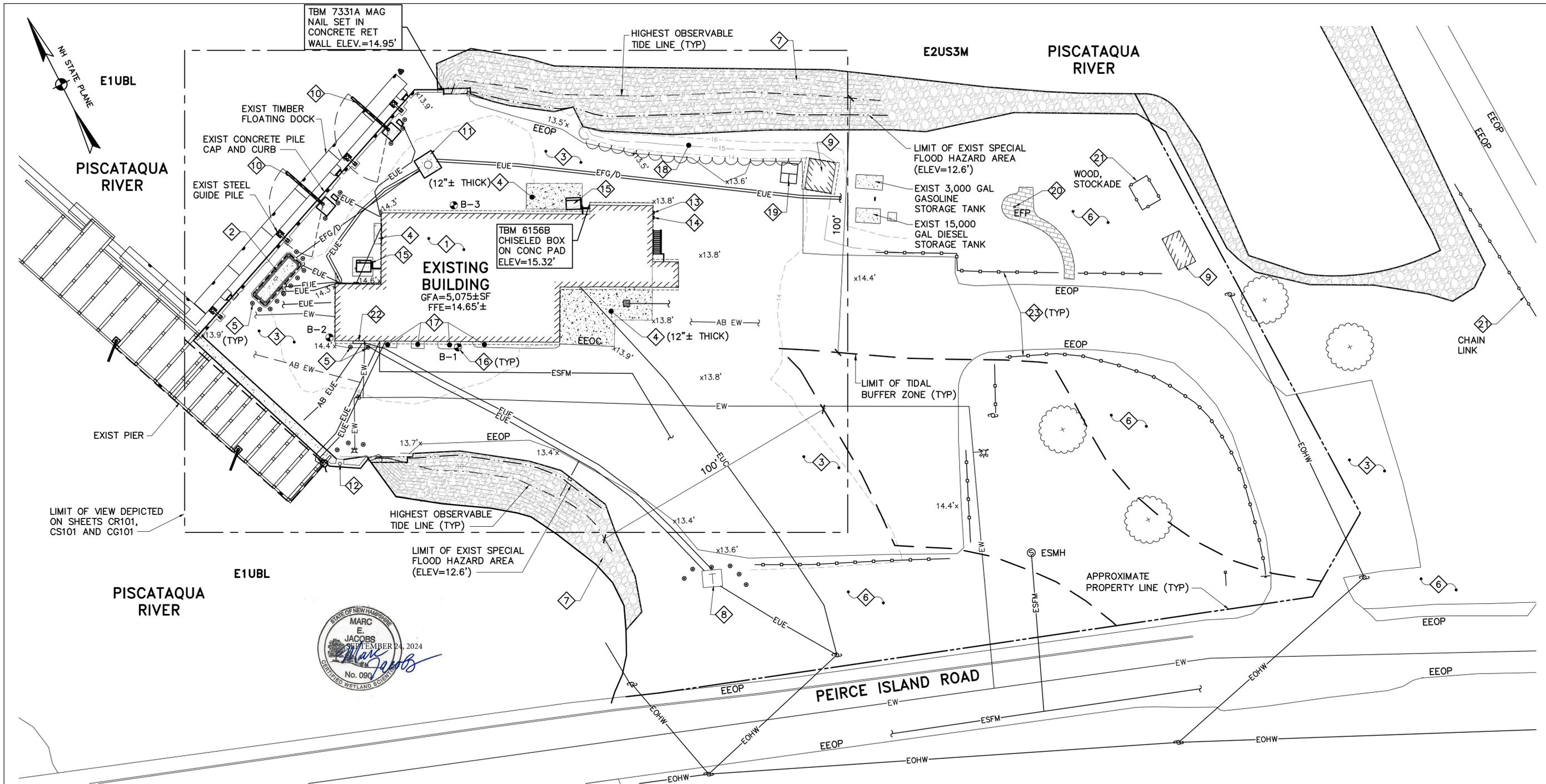
PORTSMOUTH COMMERCIAL FISH PIER
 BUILDING REPLACEMENT
 Peirce Island Road
 Portsmouth, NH

CIVIL LEGEND, NOTES, AND ABBREVIATIONS

SCALE: AS NOTED
 DATE: 09-24-24

DWG.: **C-001**

SHEET: **6** OF **57**



1 EXISTING CONDITIONS SITE PLAN
 CX101 SCALE: 1"=20'

EXISTING KEYNOTES: (THIS SHEET ONLY).

- | | |
|--|--|
| 1 EXISTING BUILDING. | 12 POLE MOUNTED FLOOD LIGHT AND SECURITY CAMERA. |
| 2 EXISTING FUEL DISPENSER BUILDING ON CONCRETE FOUNDATION. | 13 EXISTING GASOLINE HLA MOUNTED ON BUILDING WALL. |
| 3 EXISTING ASPHALT CONCRETE PAVEMENT. | 14 EXISTING DIESEL HLA MOUNTED ON BUILDING WALL. |
| 4 EXISTING CONCRETE PAD/SLAB. | 15 EXISTING COMPRESSOR ON CONCRETE PAD. |
| 5 EXISTING BOLLARD. | 16 EXISTING SOIL TEST BORING, SEE SHEET B-001. |
| 6 EXISTING TURF/GRASS. | 17 EXISTING GRASS AND WEEDS. |
| 7 EXISTING RIPRAP. | 18 EXISTING WEEDS, BRUSH AND TREES. |
| 8 EXISTING TRANSFORMER ON CONCRETE PAD. | 19 EXISTING DUMPSTER. |
| 9 EXISTING SHED. | 20 EXISTING FLAG POLE. |
| 10 EXISTING JIB CRANE AND FOUNDATION. | 21 EXISTING FENCE, TYPE AS INDICATED. |
| 11 EXISTING FUEL SUMP PIT. | 22 EXISTING ELECTRIC METER AND DISCONNECT. |
| | 23 EXISTING WOOD GUARDRAIL EXIST. |

PARCEL INFORMATION

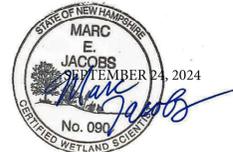
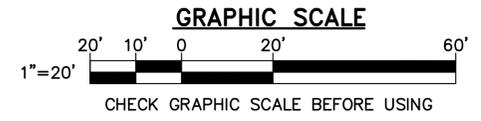
PARCEL ADDRESS: 1 PEIRCE ISLAND ROAD
 OWNER: PDA DIVISION OF PORTS AND HARBORS
 ASSESSORS MAP: MAP 208, LOT 1A
 LOT AREA: 1.967 ACRES

TIDE INFORMATION

ELEVATIONS OF TIDAL DATUM REFERRED TO MEAN LOWER LOW WATER (MLLW) IN FEET:	
HIGHEST OBSERVED WATER LEVEL (02/07/1978)	= 12.52
MEAN HIGHER HIGH WATER (MHHW)	= 8.84
MEAN HIGH WATER (MHW)	= 8.43
NORTH AMERICAN VERTICAL DATUM-1988 (NAVD88)	= 4.62
MEAN SEA LEVEL (MSL)	= 4.43
MEAN TIDE LEVEL (MTL)	= 4.38
MEAN LOW WATER (MLW)	= 0.32
MEAN LOWER LOW WATER (MLLW)	= 0.00
LOWEST OBSERVED WATER LEVEL (11/30/1955)	= -3.35

NOTES

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE BASED ON UTILITY LOCATION PAINT MARKS BY DOUCET SURVEY IN MARCH OF 2024 AND RECORD DRAWINGS..
- EXISTING CONDITIONS ARE BASED ON A LIMITED TOPOGRAPHIC SURVEY COMPLETED BY DOUCET SURVEY IN MARCH OF 2024 AND RECORD DRAWINGS.
- HORIZONTAL CONTROL IS BASED ON NEW HAMPSHIRE STATE PLANE COORDINATE SYSTEM, NAD83. VERTICAL CONTROL IS BASED ON MEAN LOWER LOW WATER (4.62' ABOVE NAVD88).
- THE PROJECT SITE IS PARTIALLY LOCATED WITHIN "OTHER AREAS OF FLOOD HAZARD", AND "SPECIAL FLOOD HAZARD AREAS" PER FEMA MAP NUMBER 33015C0278F, DATED JANUARY 29, 2021.

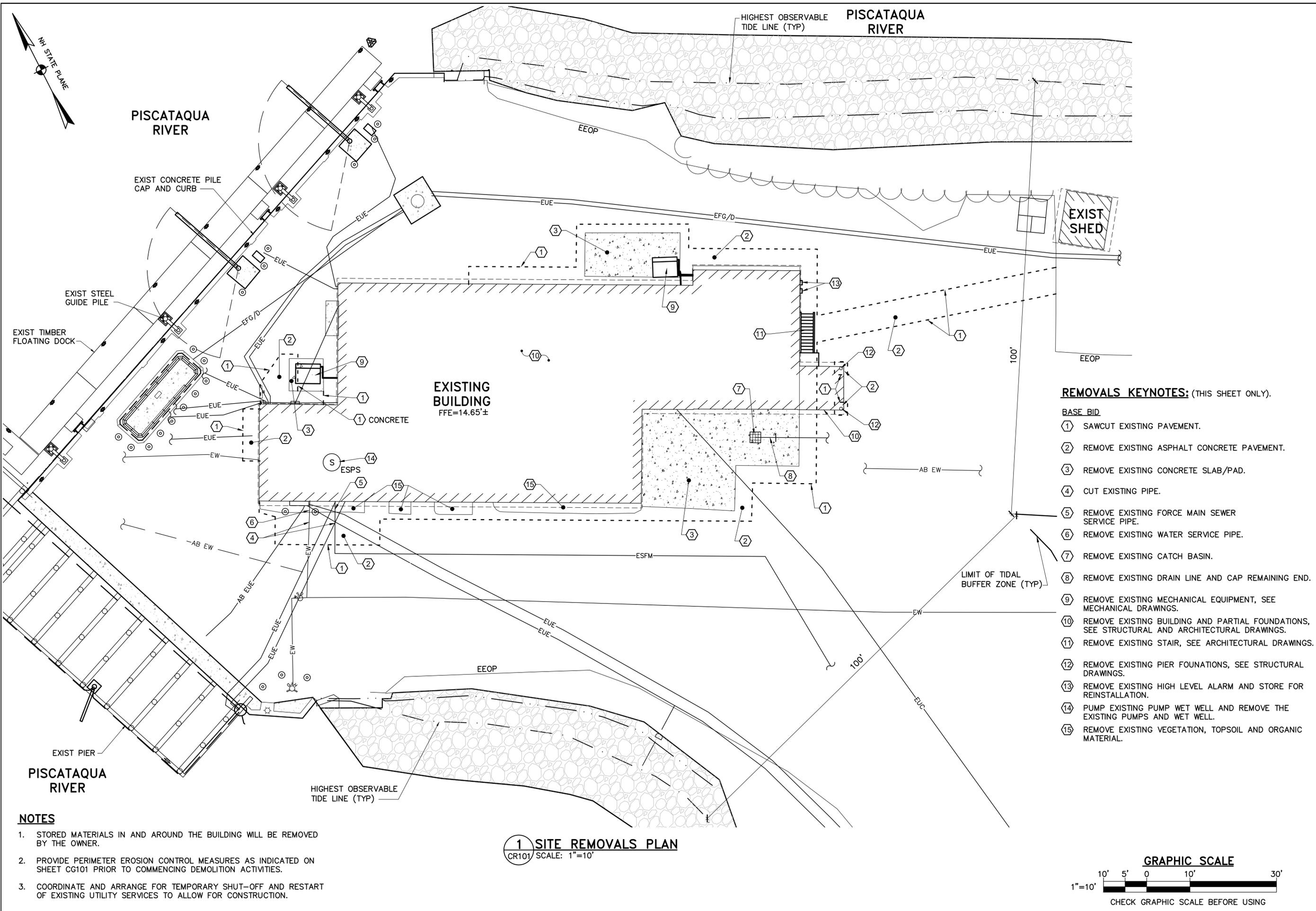


DESIGNED BY: SES
 DRAWN BY: SES
 CHECKED BY: SES
 PROJECT: 22304.21

PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS
 555 Market Street
 Portsmouth, NH

PORTSMOUTH COMMERCIAL FISH PIER
 BUILDING REPLACEMENT
 Peirce Island Road
 Portsmouth, NH

EXISTING CONDITIONS SITE PLAN



PISCATAQUA RIVER

PISCATAQUA RIVER

EXISTING BUILDING
FFE=14.65'±

EXIST SHED

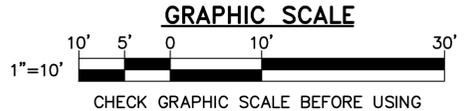
REMOVALS KEYNOTES: (THIS SHEET ONLY).

BASE BID

- ① SAWCUT EXISTING PAVEMENT.
- ② REMOVE EXISTING ASPHALT CONCRETE PAVEMENT.
- ③ REMOVE EXISTING CONCRETE SLAB/PAD.
- ④ CUT EXISTING PIPE.
- ⑤ REMOVE EXISTING FORCE MAIN SEWER SERVICE PIPE.
- ⑥ REMOVE EXISTING WATER SERVICE PIPE.
- ⑦ REMOVE EXISTING CATCH BASIN.
- ⑧ REMOVE EXISTING DRAIN LINE AND CAP REMAINING END.
- ⑨ REMOVE EXISTING MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS.
- ⑩ REMOVE EXISTING BUILDING AND PARTIAL FOUNDATIONS, SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ⑪ REMOVE EXISTING STAIR, SEE ARCHITECTURAL DRAWINGS.
- ⑫ REMOVE EXISTING PIER FOUNDATIONS, SEE STRUCTURAL DRAWINGS.
- ⑬ REMOVE EXISTING HIGH LEVEL ALARM AND STORE FOR REINSTALLATION.
- ⑭ PUMP EXISTING PUMP WET WELL AND REMOVE THE EXISTING PUMPS AND WET WELL.
- ⑮ REMOVE EXISTING VEGETATION, TOPSOIL AND ORGANIC MATERIAL.

- NOTES**
1. STORED MATERIALS IN AND AROUND THE BUILDING WILL BE REMOVED BY THE OWNER.
 2. PROVIDE PERIMETER EROSION CONTROL MEASURES AS INDICATED ON SHEET CG101 PRIOR TO COMMENCING DEMOLITION ACTIVITIES.
 3. COORDINATE AND ARRANGE FOR TEMPORARY SHUT-OFF AND RESTART OF EXISTING UTILITY SERVICES TO ALLOW FOR CONSTRUCTION.

1 SITE REMOVALS PLAN
CR101/SCALE: 1"=10'



DESIGNED BY: SES
DRAWN BY: SES
CHECKED BY: SES
PROJECT: 22304.21

**PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS**
555 Market Street
Portsmouth, NH

**PORTSMOUTH COMMERCIAL FISH PIER
BUILDING REPLACEMENT**
Peirce Island Road
Portsmouth, NH

SITE REMOVALS PLAN

SCALE: AS NOTED
DATE: 09-24-24

DWG.: **CR101**

SHEET: **8** of **57**



DESIGNED BY: SES
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 CHECKED BY: SES
 PROJECT: 22304.21

**PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS**
 555 Market Street
 Portsmouth, NH

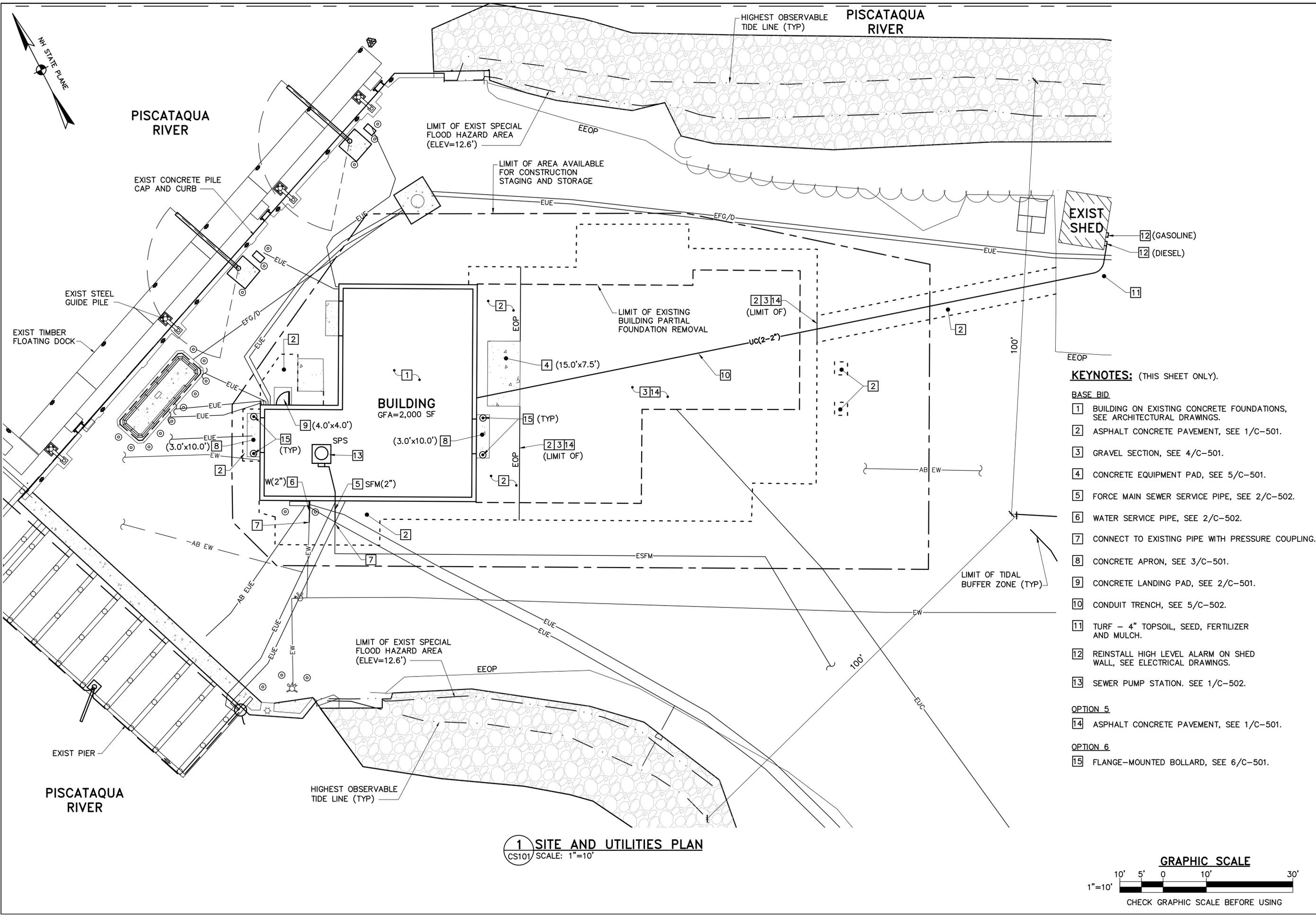
**PORTSMOUTH COMMERCIAL FISH PIER
 BUILDING REPLACEMENT**
 Peirce Island Road
 Portsmouth, NH

SITE AND UTILITIES PLAN

SCALE: AS NOTED
 DATE: 09-24-24

DWG.: **CS101**

SHEET: **9** of **57**

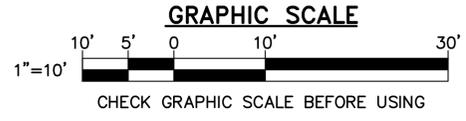


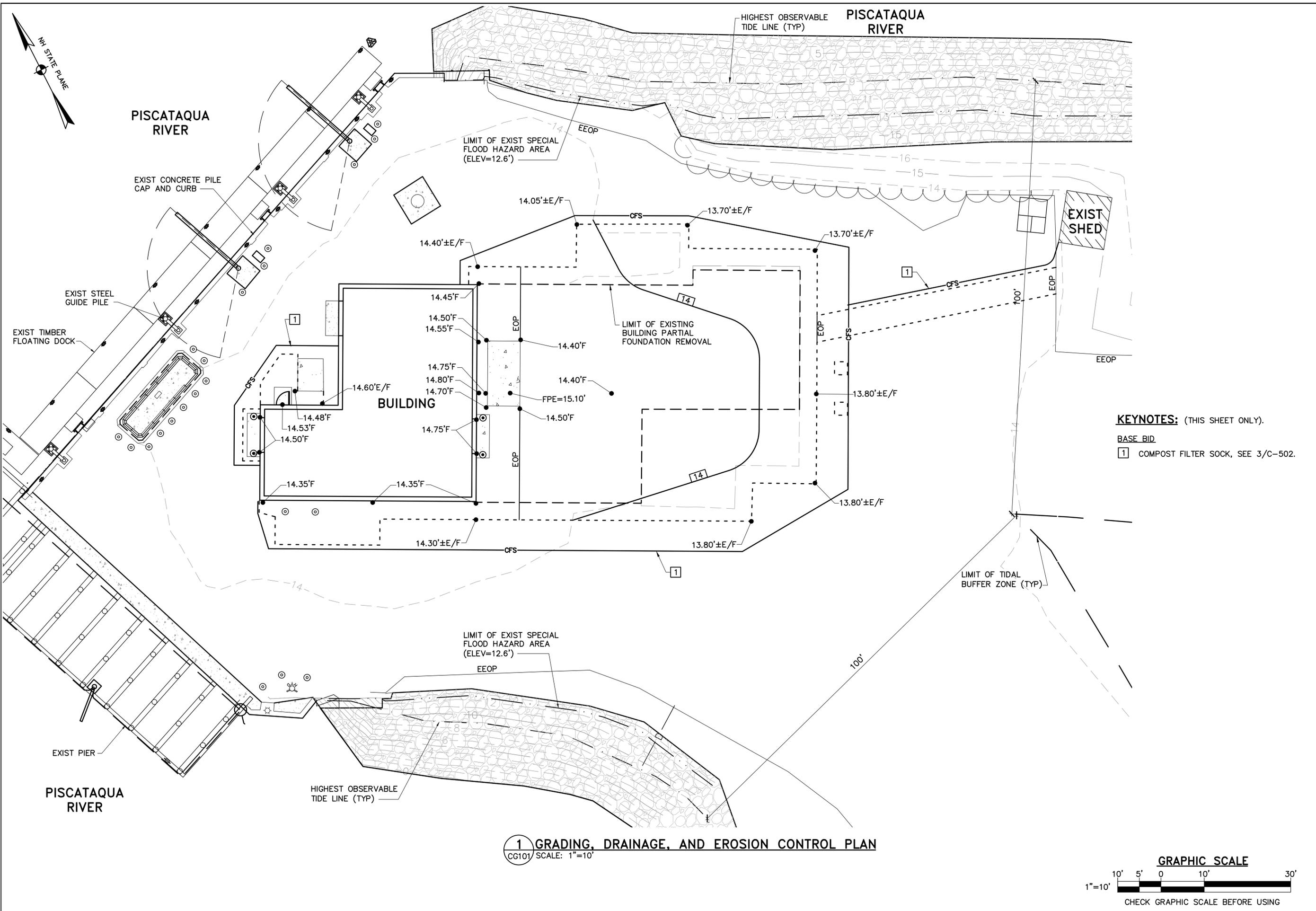
EXIST SHED
 12 (GASOLINE)
 12 (DIESEL)

BUILDING
 GFA=2,000 SF
 1 (4.0'x4.0')
 8 (3.0'x10.0')
 15 (TYP)
 SPS
 13
 W(2") 6
 5 SFM(2")

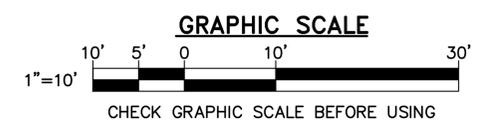
- KEYNOTES:** (THIS SHEET ONLY).
- BASE BID**
- 1 BUILDING ON EXISTING CONCRETE FOUNDATIONS, SEE ARCHITECTURAL DRAWINGS.
 - 2 ASPHALT CONCRETE PAVEMENT, SEE 1/C-501.
 - 3 GRAVEL SECTION, SEE 4/C-501.
 - 4 CONCRETE EQUIPMENT PAD, SEE 5/C-501.
 - 5 FORCE MAIN SEWER SERVICE PIPE, SEE 2/C-502.
 - 6 WATER SERVICE PIPE, SEE 2/C-502.
 - 7 CONNECT TO EXISTING PIPE WITH PRESSURE COUPLING.
 - 8 CONCRETE APRON, SEE 3/C-501.
 - 9 CONCRETE LANDING PAD, SEE 2/C-501.
 - 10 CONDUIT TRENCH, SEE 5/C-502.
 - 11 TURF - 4" TOPSOIL, SEED, FERTILIZER AND MULCH.
 - 12 REINSTALL HIGH LEVEL ALARM ON SHED WALL, SEE ELECTRICAL DRAWINGS.
 - 13 SEWER PUMP STATION. SEE 1/C-502.
- OPTION 5**
- 14 ASPHALT CONCRETE PAVEMENT, SEE 1/C-501.
- OPTION 6**
- 15 FLANGE-MOUNTED BOLLARD, SEE 6/C-501.

1 SITE AND UTILITIES PLAN
 CS101/SCALE: 1"=10'





1 GRADING, DRAINAGE, AND EROSION CONTROL PLAN
 CG101 SCALE: 1"=10'



KEYNOTES: (THIS SHEET ONLY).
 BASE BID
 1 COMPOST FILTER SOCK, SEE 3/C-502.



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 CHECKED BY: SES
 PROJECT: 22304.21

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS
 555 Market Street
 Portsmouth, NH

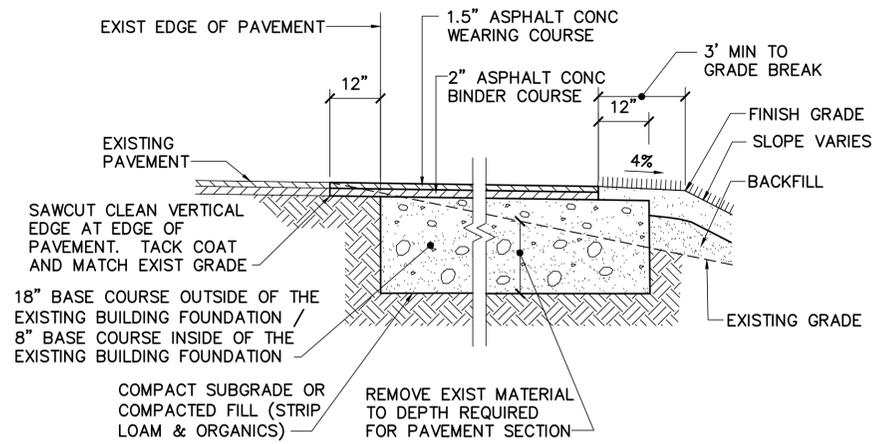
PORTSMOUTH COMMERCIAL FISH PIER
BUILDING REPLACEMENT
 Peirce Island Road
 Portsmouth, NH

GRADING, DRAINAGE, AND EROSION CONTROL PLAN

SCALE: AS NOTED
 DATE: 09-24-24

DWG.: **CG101**

SHEET: **10** OF **57**

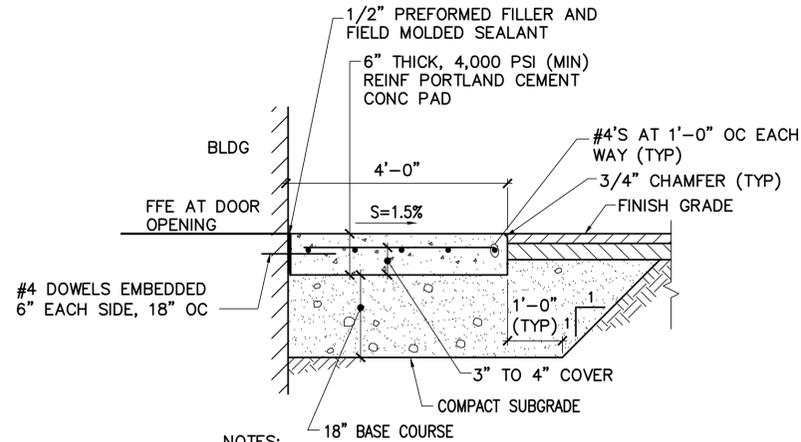


NOTE:

1. AT AREAS WHERE EXISTING PAVEMENT IS REMOVED AND GRAVEL BENEATH PAVEMENT IS NOT REMOVED, DISTURBED OR QUALITY DEGRADED DUE TO CONSTRUCTION ACTIVITIES, FINE GRADE THE PAVEMENT SUBGRADE, PROVIDE ADDITIONAL BASE COURSE TO ACHIEVE FINISH GRADES, COMPACT AND PROVIDE WEARING COURSE AND BINDER COURSE.

1 ASPHALT CONCRETE PAVEMENT

CS101 C-501 NOT TO SCALE

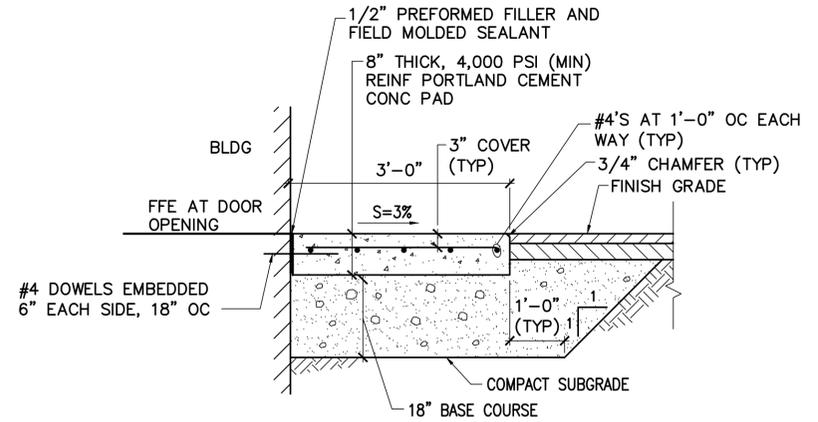


NOTES:

1. PROVIDE PAD FLUSH WITH ABUTTING PAVED OR CONCRETE FINISH SURFACES.
2. PROVIDE GALVANIZED REINFORCING.
3. PROVIDE FINE TO MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
4. PROVIDE CONCRETE LANDING PAD CENTERED ON THE DOOR OPENING.

2 CONCRETE LANDING PAD

CS101 C-501 NOT TO SCALE

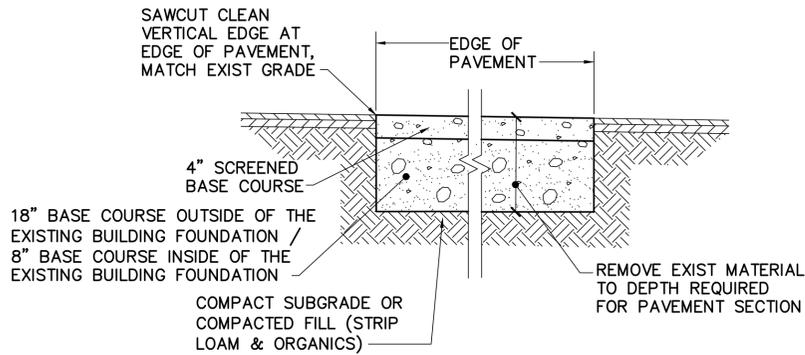


NOTES:

1. PROVIDE PAD FLUSH WITH ABUTTING PAVED OR CONCRETE FINISH SURFACES.
2. PROVIDE GALVANIZED REINFORCING.
3. PROVIDE FINE TO MEDIUM BROOM FINISH PERPENDICULAR TO THE DIRECTION OF TRAVEL.
4. PROVIDE CONCRETE APRON CENTERED ON THE OVERHEAD DOOR OPENING.

3 CONCRETE APRON

CS101 C-501 NOT TO SCALE

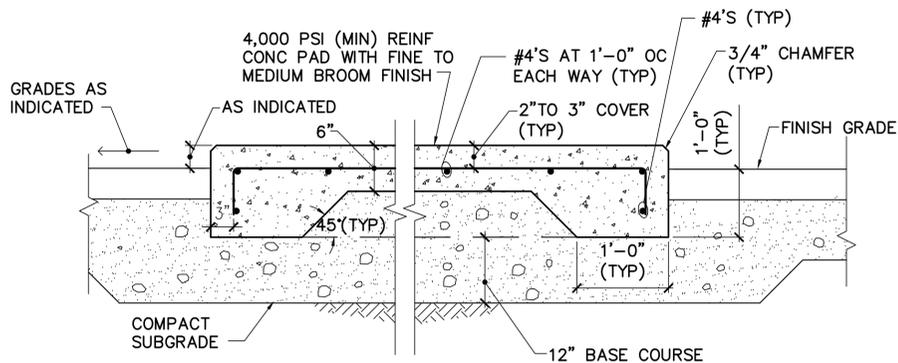


NOTE:

1. SCREENED BASE COURSE SHALL BE SCREENED TO A MAXIMUM PARTICLE SIZE OF 1.0 INCH.

4 GRAVEL SECTION

CS101 C-501 NOT TO SCALE

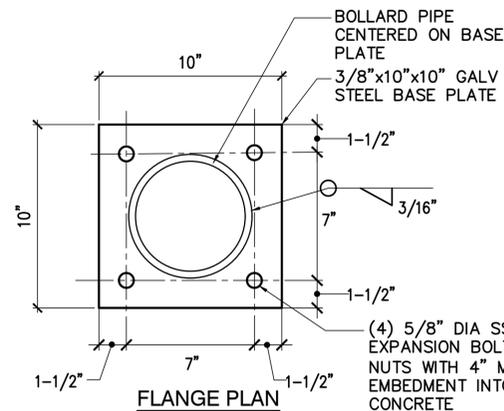


NOTES:

1. PROVIDE GALVANIZED REINFORCING.

5 CONCRETE PAD

CS101 C-501 NOT TO SCALE

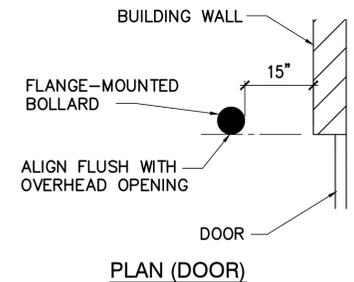


NOTE:

1. PROVIDE 1/2" MIN THICK NON-SHRINK GROUT LEVELING BED UNDER FLANGE PLATE.

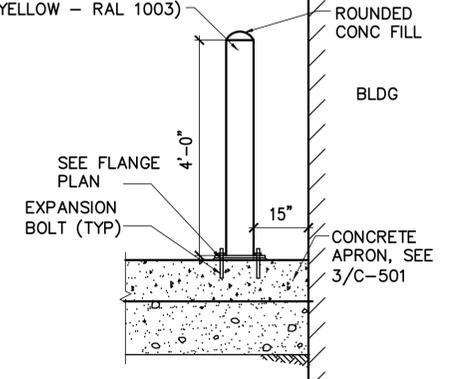
6 FLANGE-MOUNTED BOLLARD

CS101 C-501 NOT TO SCALE



PLAN (DOOR)

FLANGE MOUNTED, 6" DIA, CONC FILLED, GALV STEEL PIPE (ASTM A500) GUARD POST, PRIME AND PAINT (SAFETY YELLOW - RAL 1003)



OAK POINT ASSOCIATES

ARCHITECTURE ■ ENGINEERING ■ PLANNING
85 Middle Street, Portsmouth, NH 03801 (T) 603.431.4849 (F) 603.431.1870 www.oakpoint.com



DESIGNED BY: SES
DRAWN BY: SES
CHECKED BY: SES
PROJECT: 22304.21

PEASE DEVELOPMENT AUTHORITY
DIVISION OF PORTS AND HARBORS
555 Market Street
Portsmouth, NH

PORTSMOUTH COMMERCIAL FISH PIER
BUILDING REPLACEMENT
Peirce Island Road
Portsmouth, NH

SITE DETAILS 1

SCALE: AS NOTED

DATE: 09-24-24

DWG: **C-501**

SHEET: **11** OF **57**



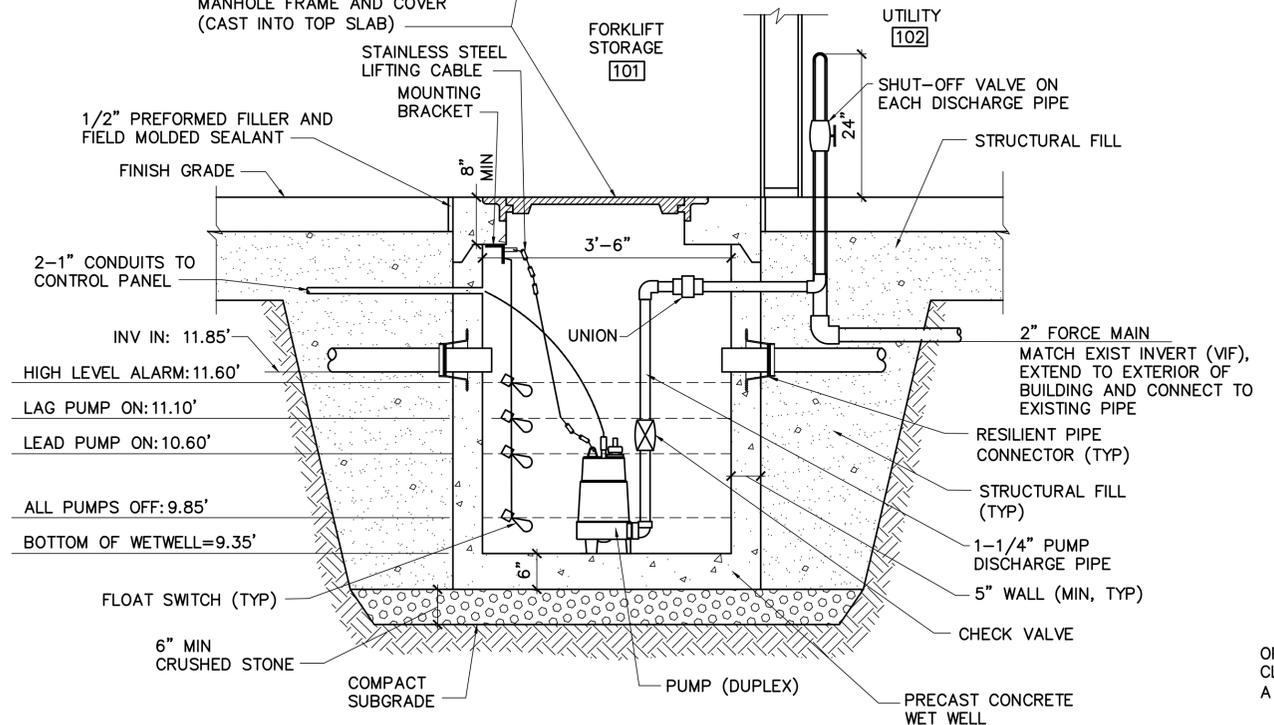
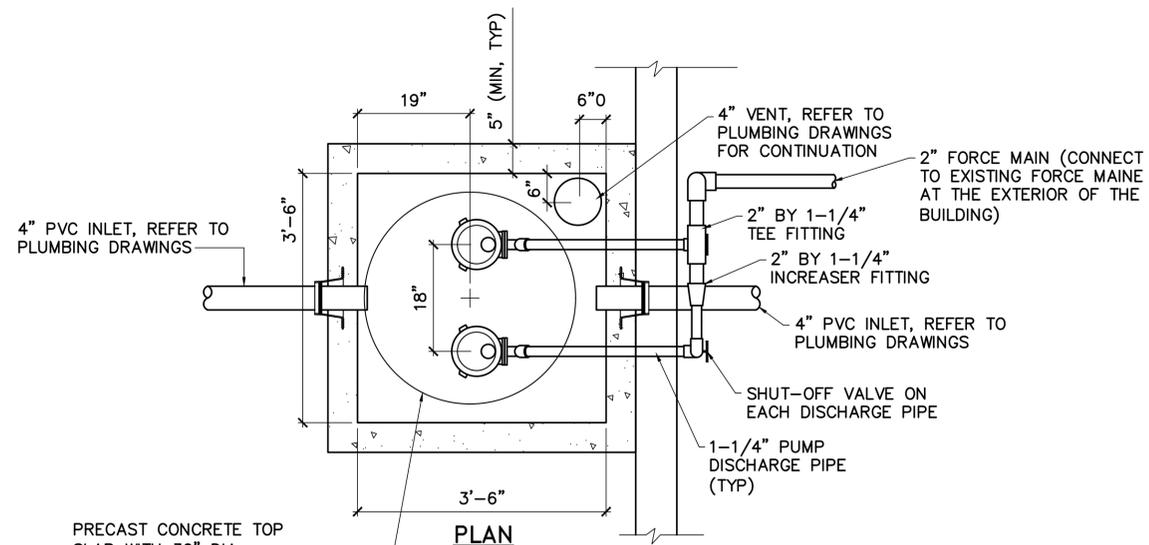
DESIGNED BY: SES
 DRAWN BY: CRN
 CHECKED BY: SES
 PROJECT: 22304.21

PEASE DEVELOPMENT AUTHORITY
 DIVISION OF PORTS AND HARBORS
 555 Market Street
 Portsmouth, NH

PORTSMOUTH COMMERCIAL FISH PIER
 BUILDING REPLACEMENT
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 Portsmouth, NH

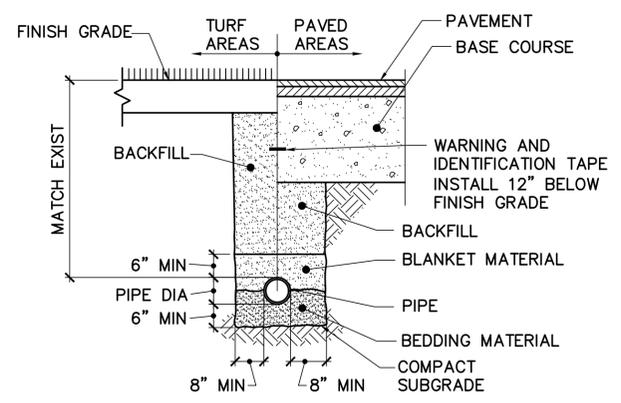
SITE DETAILS 2

SCALE: AS NOTED
 DATE: 09-24-24
 DWG: C-502
 SHEET: 12 OF 57



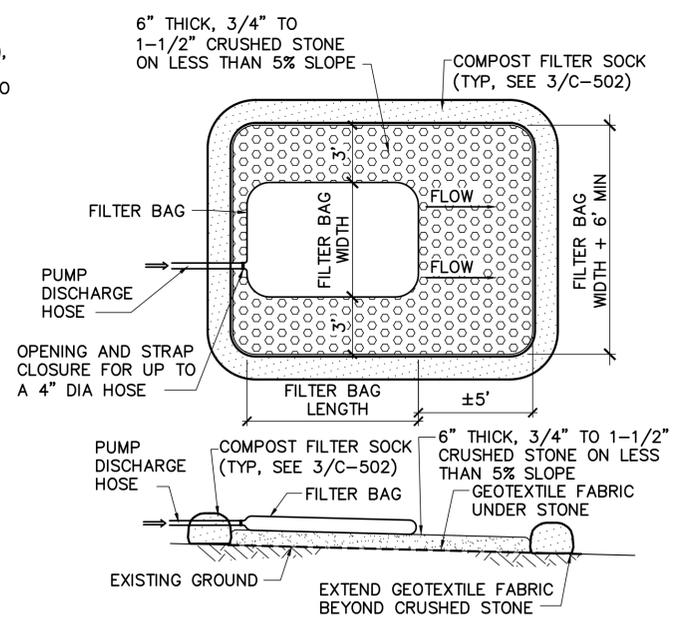
- NOTES:**
- CONCRETE: 5,000 PSI AFTER 28 DAYS.
 - PROVIDE REINFORCING TO ACHIEVE AASHTO HS-20 LOADING CLASSIFICATION (32,000 POUND AXLE LOAD).
 - SEAL KEYED JOINTS WITH 2 STRIPS OF 1" DIA BUTYL RUBBER SEALANT.
 - COAT EXTERIOR OF WET WELL WITH WATER BASED DAMP PROOFING MATERIAL.
 - PUMP BASIS OF DESIGN: LIBERTY PUMPS LSGX200 SERIES WITH A PUMP CAPACITY OF 23 GPM AT 110 FEET OF TOTAL DYNAMIC HEAD.
 - PROVIDE MECHANICAL FLOAT SWITCH LEVEL CONTROLS TO PERFORM THE FOLLOWING FUNCTIONS.
 - START AND ALTERNATE PUMPS.
 - STOP ALL PUMPS WHEN THE PUMP-OFF ELEVATION IS REACHED.
 - ACTIVATE A WARNING LIGHT AND ALARM INDICATOR ON THE CONTROL PANEL WHEN THE HIGH-WATER ALARM ELEVATION IS REACHED.
 - PROVIDE A RUN TIME COUNTER AND AMP METER FOR EACH PUMP IN THE CONTROL PANEL.
 - PROVIDE WATERTIGHT CONNECTIONS TO THE WET WELL.

1 SEWAGE PUMP STATION
 CS101.P-101 C-502 NOT TO SCALE



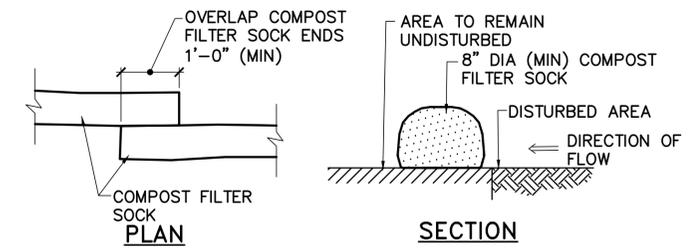
- NOTES:**
- INSTALL THERMOPLASTIC (PE AND PVC) GRAVITY PIPING IN ACCORDANCE WITH ASTM D 2321 (CLASS II BEDDING/BLANKET UNLESS INDICATED OTHERWISE).
 - EXCAVATION WORK SHALL COMPLY WITH OSHA STANDARDS. TRENCH SIDEWALLS SHALL BE VERTICAL FROM TRENCH BOTTOM TO 12" ABOVE TOP OF PIPE.
 - PROVIDE A MINIMUM OF 6" VERTICAL CLEARANCE BETWEEN CROSSING PIPES.
 - INSTALL WATER LINE IN ACCORDANCE WITH AWWA 600 (TYPE 5 BEDDING/BLANKET UNLESS INDICATED OTHERWISE).

2 PIPE TRENCH
 CS101.C-502 NOT TO SCALE



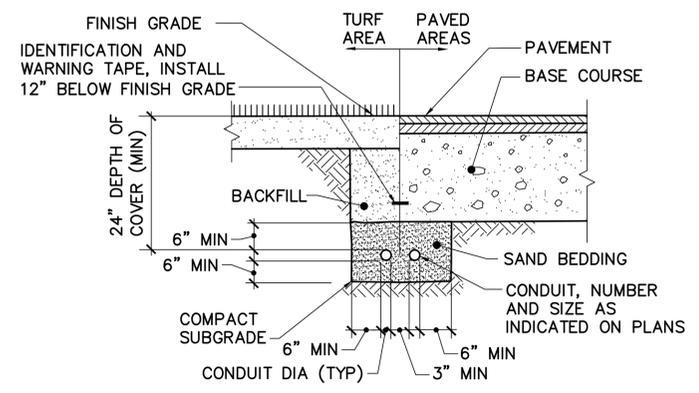
- NOTES:**
- DEWATERING SEDIMENT FILTERS MUST BE LOCATED A MINIMUM OF 100 FEET FROM ANY WATER BODY OR WETLAND. DEWATERING SEDIMENT FILTERS MUST BE A NON-WOVEN GEOTEXTILE FABRIC WITH THE FOLLOWING MINIMUM PROPERTIES:
 - WEIGHT (ASTM D3776): 8 OZ/YARD MIN
 - GRAB TENSILE STRENGTH (ASTM D4632): 205 LBS MIN
 - PUNCTURE RESISTANCE (ASTM D4833): 110 LBS MIN
 - MULLEN BURST STRENGTH (ASTM D3786): 350 PSI MIN
 - AOS (ASTM D4751): 100 US SIEVE
 - FLOW RATE (ASTM D4491): 60 GAL/MIN/SF
 - INSTALL, OPERATE, AND REMOVE DEWATERING SEDIMENT FILTERS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND PRINTED INSTRUCTIONS.

4 GEOTEXTILE FILTER BAG
 C-001 C-502 NOT TO SCALE



- NOTES:**
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES ONE-HALF THE SOCK HEIGHT.
 - COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL TRIBUTARY AREAS ARE STABILIZED.
 - SECURE COMPOST FILTER SOCKS IN PLACE WITH CONCRETE BLOCKS WHERE SOCKS FAIL TO REMAIN IN PLACE DUE TO HYDRAULIC FORCES.
 - COMPOST FILTER SOCKS: POLYPROPYLENE TUBE FILLED WITH ORGANIC MATERIAL
 - POLYPROPYLENE TUBE:
 - WOVEN OR NONWOVEN
 - TENSILE STRENGTH: 200 PSI (MIN)
 - MESH OPENING: 1/8 INCH
 - MINIMUM FLOW RATE: 0.2 GAL/MIN/SF
 - ORGANIC MATERIAL:
 - BETWEEN 95 AND 100 PERCENT ORGANIC MATERIAL DERIVED FROM A WELL DECOMPOSED SOURCE OF ORGANIC MATTER
 - 95 PERCENT MUST PASS A 2-INCH SIEVE AND A MAXIMUM OF 40 PERCENT SHALL PASS A 40 PERCENT SIEVE
 - PH: BETWEEN 5.0 AND 8.0
 - SOLUBLE SALT CONTENT: LESS THAN 4.0 mmhos/cm.

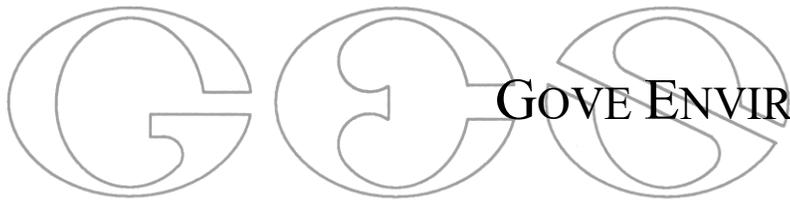
3 COMPOST FILTER SOCK
 CG101.C-502 C-502 NOT TO SCALE



- NOTE:**
- PROVIDE 3" MIN SEPARATION BETWEEN LIKE-UTILITIES AND 6" MIN SEPARATION BETWEEN CONDUITS AND OTHER UTILITIES.

5 CONDUIT TRENCH
 CS101.C-502 NOT TO SCALE





GOVE ENVIRONMENTAL SERVICES, INC.
AGENT

NHDES WETLANDS BUREAU
MINOR IMPACT
DREDGE & FILL APPLICATION

Tier 1 Stream Crossing Replacement
Portsmouth Regional Hospital
Portsmouth, NH
September, 2024

Prepared By:

Gove Environmental Services, Inc.
8 Continental Dr Bldg 2, Unit H, Exeter, NH 03833-7526
Ph (603) 778 0644 / *Fax* (603) 778 0654
info@gesinc.biz / www.gesinc.biz

GES# 2019175

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 - 1.2 Avoidance and Minimization Written Narrative (NHDES-W-06-089)
 - 1.3 Attachment A: Minor and Major Projects (NHDES-W-06-013)
 - 1.4 Stream Crossing Worksheet (NHDES-W-06-71)
 - 1.5 Functions and Values with Functional Analysis
 - 1.6 Army Corps of Engineers Appendix B
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 - 2.2 Technical Standards
 - 2.3 Site Description/Wetlands Overview
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 - 3.1 Stream Crossing Chapter 900
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 - 3.8 Fish and Game Coordination Package

APPENDICES

- Appendix I New Hampshire Natural Heritage Bureau Inquiry
- Appendix II New Hampshire Department of Historic Resources Inquiry
- Appendix III Tax Map, List of Abutters, Abutter Notification Letter, and Certified Mail Receipts

August, 2024

«Name»

«Street»

«TownStateZip»

Re: Portsmouth Regional Hospital Culvert Replacement
Subject: NH Department of Environmental Services Wetlands Bureau
Minor Impact Dredge & Fill Application

Dear Abutter:

The purpose of this letter is to inform you HCA HEALTH SVC of Portsmouth, NH is applying to the NH Department of Environmental Services Wetlands Bureau, which requires this notice for a dredge and fill permit to impact areas under its jurisdiction. The applicant is proposing a project that will have 750 SF of direct wetland impact and 1,600 SF of temporary impact. The wetland impact is associated with a proposed culvert replacement on the property. The project is proposed on Tax map 0240-0002-0001 on 333 Borthwick Ave, Portsmouth, NH.

A copy of the application, including plans, will be made available for your review at the town offices and at the NH Department of Environmental Services Wetlands Bureau, 29 Hazen Drive in Concord.

If you have any questions that we might be able to answer, please do not hesitate to contact our office.

Sincerely,

Brenden Walden
GES, Inc.



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME: HCA Health Services of New Hampshire **TOWN NAME:** Portsmouth

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

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="radio"/> Yes <input type="radio"/> No
Does the property contain a PRA? If yes, provide the following information:	<input checked="" type="radio"/> Yes <input type="radio"/> No
<ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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="radio"/> Yes <input checked="" type="radio"/> No • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): Blanding's Turtle (<i>Emydoidea blandingii</i>) <input checked="" type="radio"/> Yes <input type="radio"/> No ○ NHB Project ID #: NHB24-2219 Marsh Wren (<i>Cistothorus palustris</i>) Sora (<i>Porzana carolina</i>) <input type="radio"/> Yes <input checked="" type="radio"/> No • Bog? <input type="radio"/> Yes <input checked="" type="radio"/> No • Floodplain wetland contiguous to a tier 3 or higher watercourse? <input type="radio"/> Yes <input type="radio"/> No • Designated prime wetland or duly-established 100-foot buffer? <input checked="" type="radio"/> Yes <input type="radio"/> No • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? <input type="radio"/> Yes <input checked="" type="radio"/> No 	
Is the property within a Designated River corridor? If yes, provide the following information:	<input type="radio"/> Yes <input checked="" type="radio"/> No
<ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="radio"/> Yes <input checked="" type="radio"/> No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="radio"/> Yes <input checked="" type="radio"/> No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): 195 acres	
SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))	
Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.	
<p>Portsmouth Regional Hospital is an existing acute hospital on a ±21-acre parcel at 333 Borthwick Ave, Portsmouth, NH 03801. Along the northern property boundary there is an existing Unitil natural gas enclosure with regulators and valves. This area is accessed through an existing gravel drive with (3) 24" culverts that cross over a man-made swale for maintenance and regular inspections.</p> <p>The applicant is proposing to remove the existing three (3) 24" culverts and replace with one (1) 10' wide by 3' tall by 25' long box culvert. Temporary wetland impact proposed is 1,600 SF and permanent wetland impact proposed is 750 SF. Cofferdams and rerouting of the water through a dewatering system will be utilized during removal of existing culverts and installation of proposed box culvert. No additional wetland impacts are associated with the proposed culvert replacement.</p>	
SECTION 3 - PROJECT LOCATION	
Separate wetland permit applications must be submitted for each municipality within which wetland impacts occur.	
ADDRESS: 333 Borthwick Avenue	
TOWN/CITY: Portsmouth	
TAX MAP/BLOCK/LOT/UNIT: 0240-0002-0001	
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: <input checked="" type="checkbox"/> N/A	
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	

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: HCA Health Services of New Hampshire		
MAILING ADDRESS: PO BOX 80610		
TOWN/CITY: Indianapolis	STATE: IN	ZIP CODE: 46580
EMAIL ADDRESS: Trip.DeMoss@hcahealthcare.com		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.: Walden, Brenden, M		
COMPANY NAME: Gove Environmental Services		
MAILING ADDRESS: 8 Continental Drive, Building 2, Unit H		
TOWN/CITY: Exeter	STATE: NH	ZIP CODE: 03833
EMAIL ADDRESS: bwalden@gesinc.biz		
FAX:	PHONE: (207)710-7863	
ELECTRONIC COMMUNICATION: By initialing here BMW, 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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

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):

Wetland impacts are less than 3,000 SF for this project as well as cumulatively. This meets criteria outlined in Env-Wt 524 for commercial development by enhancing hydrologic connectivity to maintain flows or improve flows on the subject property. The project meets the criteria listed for Replacement of Tier 1 Existing Legal Crossings Env-Wt 904.

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 (PERM.) impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary (TEMP.) impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. ATF
Wetlands	Forested Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River	750	75	<input type="checkbox"/>	1,600		<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>			<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

<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): 2350 SF × \$0.40 = \$ 940
Seasonal docking structure: SF × \$2.00 = \$
Permanent docking structure: SF × \$4.00 = \$
Projects proposing shoreline structures (including docks) add \$400 = \$
Total = \$
<i>The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$</i>

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification.

<input type="checkbox"/> Minimum Impact Project	<input checked="" type="checkbox"/> Minor Project	<input type="checkbox"/> Major Project
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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:	<p>The signer understands that:</p> <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.
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:	DATE:
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIBLY:	DATE:

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:
TOWN/CITY:	DATE:

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. 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.
3. 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.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the 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 at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the [Wetland Rules Env-Wt 100-900](#).

- The completed, dated, signed, and certified application (Env-Wt 311.03(b)(1)).
- Correct fee as determined in RSA 482-A:3, I(b) or (c), subject to any cap established by RSA 482-A:3, X (Env-Wt 311.03(b)(2)). Make check or money order payable to "Treasurer – State of NH".
- The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- [US Army Corps of Engineers \(ACE\) "Appendix B, New Hampshire General Permits \(GPs\), Required Information and Corps Secondary Impacts Checklist"](#) and its required attachments (Env-Wt 307.02). This includes the [US Fish and Wildlife Service IPAC review](#) and [Section 106 Historic/Archaeological Resource review](#).
- Project plans described in Env-Wt 311.05 (Env-Wt 311.03(b)(4)).
- Maps, or electronic shape files and meta data, and other attachments specified in Env-Wt 311.06 (Env-Wt 311.03(b)(5)).
- Explanation of the methods, timing, and manner as to how the project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)).
- If applicable, the information regarding proposed compensatory mitigation specified in Env-Wt 311.08 and Chapter Env-Wt 800 - [Permittee Responsible Mitigation Project Worksheet](#), unless not required under Env-Wt 313.04 (Env-Wt 311.03(b)(8); Env-Wt 311.08; Env-Wt 313.04).
- Any additional information specific to the **type of resource** as specified in Env-Wt 311.09 (Env-Wt 311.03(b)(9); Env-Wt 311.04(j)).
- Project specific information required by Env-Wt 500, Env-Wt 600, and Env-Wt 900 (Env-Wt 311.03(b)(11)).
- A list containing the name, mailing address and tax map/lot number of each abutter to the subject property (Env-Wt 311.03(b)(12)).
- Copies of certified postal receipts or other proof of receipt of the notices that are required by RSA 482-A:3, I(d) (Env-Wt 311.03(b)(13)).
- Project design considerations required by Env-Wt 313 (Env-Wt 311.04(j)).
- Town tax map showing the subject property, the location of the project on the property, and the location of properties of abutters with each lot labeled with the name and mailing address of the abutter (Env-Wt 311.06(a)).
- Dated and labeled color photographs that:
 - (1) Clearly depict:
 - a. All jurisdictional areas, including but not limited to portions of wetland, shoreline, or surface water where impacts have or are proposed to occur.
 - b. All existing shoreline structures.
 - (2) Are mounted or printed no more than 2 per sheet on 8.5 x 11 inch sheets (Env-Wt 311.06(b)).
- A copy of the appropriate US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 feet showing the location of the subject property and proposed project (Env-Wt 311.06(c)).
- A narrative that describes the work sequence, including pre-construction through post-construction, and the relative timing and progression of all work (Env-Wt 311.06(d)).

- For all projects in the protected tidal zone, a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).
- If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
 - (1) Identifies the county registry of deeds and book and page numbers of all of the easements or other recorded instruments that provide the necessary legal interest; and
 - (2) Has been certified as complete and accurate by a knowledgeable representative of the applicant (Env-Wt 311.06(f)).
- The NHB memo containing the NHB identification number and results and recommendations from NHB as well as documentation of any consultation requests made to NHFG, communications and information related to the consultation, with the consultation results and recommendations from NHFG. (Env-Wt 311.06(g)). See [Wetlands Permitting: Protected Species and Habitat Fact Sheet](#).
- A statement of whether the applicant has received comments from the local conservation commission and, if so, how the applicant has addressed the comments (Env-Wt 311.06(h)).
- For projects in LAC jurisdiction, a statement of whether the applicant has received comments from the LAC and, if so, how the applicant has addressed the comments (Env-Wt 311.06(i)).
- If the applicant is also seeking to be covered by the state general permits, a statement of whether comments have been received from any federal agency and, if so, how the applicant has addressed the comments (Env-Wt 311.06(j)).
- [Avoidance and Minimization Written Narrative](#) or the [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
- For after-the-fact applications: information required by Env-Wt 311.12.
- [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
- Prime Wetlands information required under Env-Wt 700. See [WPPT](#) for prime wetland mapping.
- For non-tidal shoreline structure projects, the length of shoreline frontage per Env-Wt 311.09(b)(1)

Required Attachments for Minor and Major Projects

- [Attachment A: Minor and Major Projects](#) (Env-Wt 313.03).
- [Functional Assessment Worksheet](#) or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See [Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet](#). For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).

Optional Materials

- [Stream Crossing Worksheet](#) which summarizes the requirements for stream crossings under Env-Wt 900.
- Request for [concurrent processing of related shoreland / wetlands permit applications](#) (Env-Wt 313.05).



AVOIDANCE AND MINIMIZATION
WRITTEN NARRATIVE
Water Division/Land Resources Management
Wetlands Bureau
[Check the Status of your Application](#)



RSA/ Rule: RSA 482-A/ Env-Wt 311.04(j); Env-Wt 311.07; Env-Wt 313.01(a)(1)b; Env-Wt 313.01(c)

APPLICANT'S NAME: HCA Health Services of New Hampshire **TOWN NAME:** Portsmouth

An applicant for a standard permit shall submit with the permit application a written narrative that explains how all impacts to functions and values of all jurisdictional areas have been avoided and minimized to the maximum extent practicable. This attachment can be used to guide the narrative (attach additional pages if needed). Alternatively, the applicant may attach a completed [Avoidance and Minimization Checklist \(NHDES-W-06-050\)](#) to the permit application.

SECTION 1 - WATER ACCESS STRUCTURES (Env-Wt 311.07(b)(1))

Is the primary purpose of the proposed project to construct a water access structure?

No water access structures are proposed with this proejct.

SECTION 2 - BUILDABLE LOT (Env-Wt 311.07(b)(1))

Does the proposed project require access through wetlands to reach a buildable lot or portion thereof?

No

SECTION 3 - AVAILABLE PROPERTY (Env-Wt 311.07(b)(2))*

For any project that proposes permanent impacts of more than one acre, or that proposes permanent impacts to a PRA, or both, are any other properties reasonably available to the applicant, whether already owned or controlled by the applicant or not, that could be used to achieve the project's purpose without altering the functions and values of any jurisdictional area, in particular wetlands, streams, and PRAs?

**Except as provided in any project-specific criteria and except for NH Department of Transportation projects that qualify for a categorical exclusion under the National Environmental Policy Act.*

There are no proposed permanent impacts of more than one (1) acre or to a PRA for the proposed culvert replacement. Additonally, the functions and values of the Tier 1 stream will be preserved and maintained. Hydrologic connectivity will be maintained from north of the site.

SECTION 4 - ALTERNATIVES (Env-Wt 311.07(b)(3))

Could alternative designs or techniques, such as different layouts, different construction sequencing, or alternative technologies be used to avoid impacts to jurisdictional areas or their functions and values as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization?](#)

There are no other alternatives that would result in lesser impact to the jurisdictional area or their functions and values. The proposed culvert replacement has been sized to meet and exceed the tier 1 stream crossing requirements and will enhance hydrologic connectivity between the emergent wetland to the north and the prime wetland located south of subject property.

SECTION 5 - CONFORMANCE WITH Env-Wt 311.10(c) (Env-Wt 311.07(b)(4))**

How does the project conform to Env-Wt 311.10(c)?

***Except for projects solely limited to construction or modification of non-tidal shoreline structures only need to complete relevant sections of Attachment A.*

The project limited the wetland impacts to the Tier 1 stream, three 24 inch culverts with one single concert box culvert. The impacts associated with this proposal will not have any longterm effects to the function and values of the Tier 1 stream and is designed to maintain hydrologic connectivity and sized properly to meet or exceed the tier 1 stream crossing requirements.



STANDARD DREDGE AND FILL
WETLANDS PERMIT APPLICATION
ATTACHMENT A: MINOR AND MAJOR PROJECTS



Water Division/Land Resources Management
Wetlands Bureau

[Check the Status of your Application](#)

RSA/ Rule: RSA 482-A/ Env-Wt 311.10; Env-Wt 313.01(a)(1); Env-Wt 313.03

APPLICANT'S NAME: HCA Health Services of New Hampshire **TOWN NAME:** Portsmouth

Attachment A is required for *all minor and major projects*, and must be completed *in addition* to the [Avoidance and Minimization Narrative](#) or [Checklist](#) that is required by Env-Wt 307.11.

For projects involving construction or modification of non-tidal shoreline structures over areas of surface waters having an absence of wetland vegetation, only Sections I.X through I.XV are required to be completed.

PART I: AVOIDANCE AND MINIMIZATION

In accordance with Env-Wt 313.03(a), the Department shall not approve any alteration of any jurisdictional area unless the applicant demonstrates that the potential impacts to jurisdictional areas have been avoided to the maximum extent practicable and that any unavoidable impacts have been minimized, as described in the [Wetlands Best Management Practice Techniques For Avoidance and Minimization](#).

SECTION I.I - ALTERNATIVES (Env-Wt 313.03(b)(1))

Describe how there is no practicable alternative that would have a less adverse impact on the area and environments under the Department's jurisdiction.

THERE ARE NO OTHER ALTERNATIVES THAT WOULD RESULT IN LESSER IMPACT TO THE JURISDICTIONAL AREA OR THEIR FUNCTIONS AND VALUES. THE PROPOSED CULVERT REPLACEMENT HAS BEEN SIZED TO MEET TIER 1 STREAM CROSSING REQUIREMENTS AND WILL ENHANCE HYDROLOGIC CONNECTIVITY BETWEEN THE TWO EXISTING WETLANDS ON THE NORTH OF THE PROPERTY.

SECTION I.II - MARSHES (Env-Wt 313.03(b)(2))

Describe how the project avoids and minimizes impacts to tidal marshes and non-tidal marshes where documented to provide sources of nutrients for finfish, crustacean, shellfish, and wildlife of significant value.

The project does not have any direct impacts to marshes that support or provide nutrients for finfish, crustaceans, shellfish and wildlife of significant value.

SECTION I.III - HYDROLOGIC CONNECTION (Env-Wt 313.03(b)(3))

Describe how the project maintains hydrologic connections between adjacent wetland or stream systems.

The proposed replacement of the existing crossing structures will improve the flows at the existing crossing location by increasing the crossing structure size and allow for better connectivity and allowance for aquatic passage.

SECTION I.IV - JURISDICTIONAL IMPACTS (Env-Wt 313.03(b)(4))

Describe how the project avoids and minimizes impacts to wetlands and other areas of jurisdiction under RSA 482-A, especially those in which there are exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and habitat and reproduction areas for species of concern, or any combination thereof.

The proposed stream crossing replacement will utilize areas of previous disturbance and minimize the expansion of the crossing to the greatest extent practicable. No other impacts are proposed and the improved hydrologic connectivity will provide a long term net benefit to the resource area both up stream and down stream. The improved aquatic passage would provide a benefit to any species currently utilizing the aquatic resource area.

SECTION I.V - PUBLIC COMMERCE, NAVIGATION, OR RECREATION (Env-Wt 313.03(b)(5))

Describe how the project avoids and minimizes impacts that eliminate, depreciate or obstruct public commerce, navigation, or recreation.

The proposed culvert replacement will be entirely on private property and will have no negative impacts that would eliminate, depreciate or obstruct public commerce, navigation or recreation with the completion of the project.

SECTION I.VI - FLOODPLAIN WETLANDS (Env-Wt 313.03(b)(6))

Describe how the project avoids and minimizes impacts to floodplain wetlands that provide flood storage.

There are no proposed impacts to any floodplain wetlands on the subject property.

SECTION I.VII - RIVERINE FORESTED WETLAND SYSTEMS AND SCRUB-SHRUB – MARSH COMPLEXES (Env-Wt 313.03(b)(7))

Describe how the project avoids and minimizes impacts to natural riverine forested wetland systems and scrub-shrub – marsh complexes of high ecological integrity.

The proposed impacts are only associated with a culvert replacement, a previously disturbed area.

SECTION I.VIII - DRINKING WATER SUPPLY AND GROUNDWATER AQUIFER LEVELS (Env-Wt 313.03(b)(8))

Describe how the project avoids and minimizes impacts to wetlands that would be detrimental to adjacent drinking water supply and groundwater aquifer levels.

The proposed project has impacts to a Tier 1 stream and will not result in any observable negative impacts to water quality.

SECTION I.IX - STREAM CHANNELS (Env-Wt 313.03(b)(9))

Describe how the project avoids and minimizes adverse impacts to stream channels and the ability of such channels to handle runoff of waters.

The only proposed impacts are to the Tier 1 stream, needed for the culvert replacement. The proposed Tier 1 culvert replacement will improve flow and enhance hydrologic connectivity to other wetlands on and off the property.

SECTION I.X - SHORELINE STRUCTURES - CONSTRUCTION SURFACE AREA (Env-Wt 313.03(c)(1))

Describe how the project has been designed to use the minimum construction surface area over surface waters necessary to meet the stated purpose of the structures.

No shoreline structures proposed.

SECTION I.XI - SHORELINE STRUCTURES - LEAST INTRUSIVE UPON PUBLIC TRUST (Env-Wt 313.03(c)(2))

Describe how the type of construction proposed is the least intrusive upon the public trust that will ensure safe docking on the frontage.

No shoreline structures proposed.

SECTION I.XII - SHORELINE STRUCTURES – ABUTTING PROPERTIES (Env-Wt 313.03(c)(3))

Describe how the structures have been designed to avoid and minimize impacts on ability of abutting owners to use and enjoy their properties.

No shoreline structures proposed.

SECTION I.XIII - SHORELINE STRUCTURES – COMMERCE AND RECREATION (Env-Wt 313.03(c)(4))

Describe how the structures have been designed to avoid and minimize impacts to the public's right to navigation, passage, and use of the resource for commerce and recreation.

No shoreline structures proposed.

SECTION I.XIV - SHORELINE STRUCTURES – WATER QUALITY, AQUATIC VEGETATION, WILDLIFE AND FINFISH HABITAT (Env-Wt 313.03(c)(5))

Describe how the structures have been designed, located, and configured to avoid impacts to water quality, aquatic vegetation, and wildlife and finfish habitat.

No shoreline structures proposed.

SECTION I.XV - SHORELINE STRUCTURES – VEGETATION REMOVAL, ACCESS POINTS, AND SHORELINE STABILITY (Env-Wt 313.03(c)(6))

Describe how the structures have been designed to avoid and minimize the removal of vegetation, the number of access points through wetlands or over the bank, and activities that may have an adverse effect on shoreline stability.

No shoreline structures proposed.

PART II: FUNCTIONAL ASSESSMENT	
REQUIREMENTS	Ensure that project meets the requirements of Env-Wt 311.10 regarding functional assessment (Env-Wt 311.04(j); Env-Wt 311.10).
FUNCTIONAL ASSESSMENT METHOD USED: Army Corps of Engineers Highway Methodology	
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: BRENDEN WALDEN CWS #297	
DATE OF ASSESSMENT: 9/5/2023	
Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: <input checked="" type="checkbox"/>	
For minor or major projects requiring a standard permit without mitigation, the applicant shall submit a wetland evaluation report that includes completed checklists and information demonstrating the RELATIVE FUNCTIONS AND VALUES OF EACH WETLAND EVALUATED. Check this box to confirm that the application includes this information, if applicable: <input checked="" type="checkbox"/>	
Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.	



WETLANDS PERMIT APPLICATION STREAM CROSSING WORKSHEET

Water Division/Land Resources Management
Wetlands Bureau



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

This worksheet can be used to accompany Wetlands Permit Applications when proposing stream crossings.

SECTION 1 - TIER CLASSIFICATIONS	
Determine the contributing watershed size at USGS StreamStats .	
Note: Plans for tier 2 and 3 crossings shall be designed and stamped by a professional engineer who is licensed under RSA 310-A to practice in New Hampshire.	
Size of contributing watershed at the crossing location: 195 acres	
<input checked="" type="checkbox"/> Tier 1: A tier 1 stream crossing is a crossing located on a watercourse where the contributing watershed size is less than or equal to 200 acres.	
<input type="checkbox"/> Tier 2: A tier 2 stream crossing is a crossing located on a watercourse where the contributing watershed size is greater than 200 acres and less than 640 acres.	
<input type="checkbox"/> Tier 3: A tier 3 stream crossing is a crossing that meets any of the following criteria: <ul style="list-style-type: none"> <input type="checkbox"/> On a watercourse where the contributing watershed is more than 640 acres. <input type="checkbox"/> Within a designated river corridor unless: <ul style="list-style-type: none"> a. The crossing would be a tier 1 stream based on contributing watershed size, or b. The structure does not create a direct surface water connection to the designated river as depicted on the national hydrography dataset as found on GRANIT. <input type="checkbox"/> Within a 100-year floodplain (see Section 2 below). <input type="checkbox"/> In a jurisdictional area having any protected species or habitat (NHB DataCheck). <input type="checkbox"/> In a prime wetland or within a duly-established 100-foot buffer, unless a waiver has been granted pursuant to RSA 482-A:11, IV(b) and Env-Wt 706. Review the Wetlands Permit Planning Tool (WPPT) for town prime wetland and prime wetland buffer maps to determine if your project is within these areas. 	
<input type="checkbox"/> Tier 4: A tier 4 stream crossing is a crossing located on a tidal watercourse.	
SECTION 2 - 100-YEAR FLOODPLAIN	
Use the FEMA Map Service Center to determine if the crossing is located within a 100-year floodplain. Please answer the questions below:	
<input checked="" type="checkbox"/> No: The proposed stream crossing <i>is not</i> within the FEMA 100-year floodplain.	
<input type="checkbox"/> Yes: The proposed project <i>is</i> within the FEMA 100-year floodplain. Zone = <input type="text"/> Elevation of the 100-year floodplain at the inlet: <input type="text"/> feet (FEMA EI. or Modeled EI.)	
SECTION 3 - CALCULATING PEAK DISCHARGE	
Existing 100-year peak discharge (Q) calculated in cubic feet per second (CFS): 244.7 CFS	Calculation method: <input type="text" value="Hydrology Studio"/>
Estimated bankfull discharge at the crossing location: <input type="text"/> CFS	Calculation method: <input type="text"/>

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

➔ **Note: If tier 1, then skip to Section 10** ➔

SECTION 4 - PREDICTED CHANNEL GEOMETRY BASED ON REGIONAL HYDRAULIC CURVES

For tier 2, tier 3 and tier 4 crossings only.

Bankfull Width: <input style="width: 50px;" type="text"/> feet	Mean Bankfull Depth: <input style="width: 50px;" type="text"/> feet
Bankfull Cross Sectional Area: <input style="width: 50px;" type="text"/> square feet (SF)	

SECTION 5 - CROSS SECTIONAL CHANNEL GEOMETRY: MEASUREMENTS OF THE EXISTING STREAM WITHIN A REFERENCE REACH

For tier 2, tier 3 and tier 4 crossings only.

Describe the reference reach location: <input style="width: 100%;" type="text"/>
Reference reach watershed size: <input style="width: 50px;" type="text"/> acres

Parameter	Cross Section 1 Describe bed form <input style="width: 50px;" type="text"/> <i>(e.g. pool, riffle, glide)</i>	Cross Section 2 Describe bed form <input style="width: 50px;" type="text"/> <i>(e.g. pool, riffle, glide)</i>	Cross Section 3 Describe bed form <input style="width: 50px;" type="text"/> <i>(e.g. pool, riffle, glide)</i>	Range
Bankfull Width	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet
Bankfull Cross Sectional Area	<input style="width: 50px;" type="text"/> SF	<input style="width: 50px;" type="text"/> SF	<input style="width: 50px;" type="text"/> SF	<input style="width: 50px;" type="text"/> SF
Mean Bankfull Depth	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet
Width to Depth Ratio	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>
Max Bankfull Depth	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet
Flood Prone Width	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet	<input style="width: 50px;" type="text"/> feet
Entrenchment Ratio	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>

Use **Figure 1** below to determine the measurements of the Reference Reach Attributes

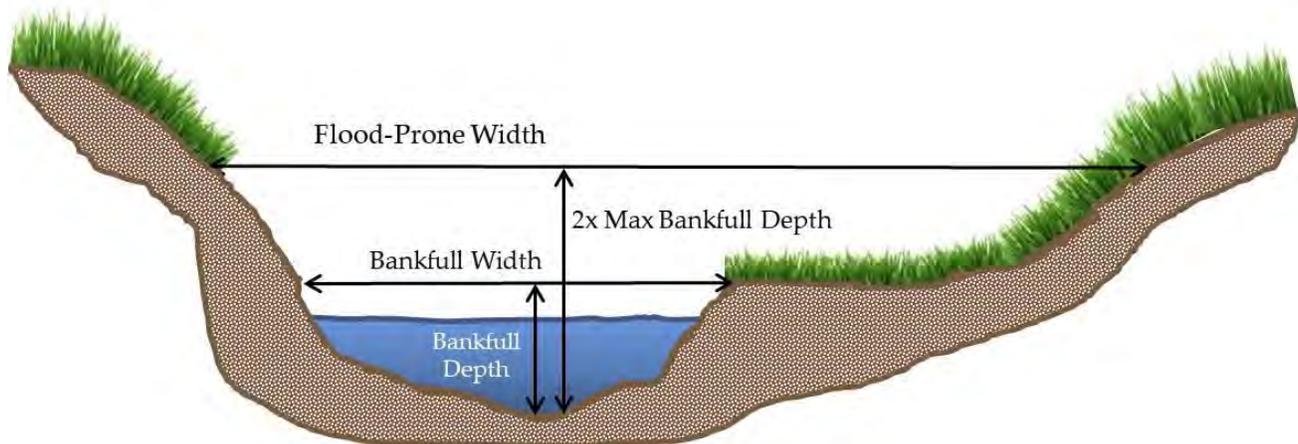


Figure 1: Determining the Reference Reach Attributes.

SECTION 6 - LONGITUDINAL PARAMETERS OF THE REFERENCE REACH AND CROSSING LOCATION

For tier 2, tier 3 and tier 4 crossings only.

Average Channel Slope of the Reference Reach: <input style="width: 50px;" type="text"/>
Average Channel Slope at the Crossing Location: <input style="width: 50px;" type="text"/>

SECTION 7 - PLAN VIEW GEOMETRY

Note: Sinuosity is measured a distance of at least 20 times bankfull width, or 2 meander belt widths.

For tier 2, tier 3 and tier 4 crossings only.

Sinuosity of the Reference Reach: <input style="width: 50px;" type="text"/>
Sinuosity of the Crossing Location: <input style="width: 50px;" type="text"/>

SECTION 8 - SUBSTRATE CLASSIFICATION BASED ON FIELD OBSERVATIONS	
<i>For tier 2, tier 3 and tier 4 crossings only.</i>	
% of reach that is bedrock:	█ %
% of reach that is boulder:	█ %
% of reach that is cobble:	█ %
% of reach that is gravel:	█ %
% of reach that is sand:	█ %
% of reach that is silt:	█ %
SECTION 9 - STREAM TYPE OF REFERENCE REACH	
<i>For tier 2, tier 3 and tier 4 crossings only.</i>	
Stream Type of Reference Reach:	█

Refer to Rosgen Classification Chart (Figure 2) below:

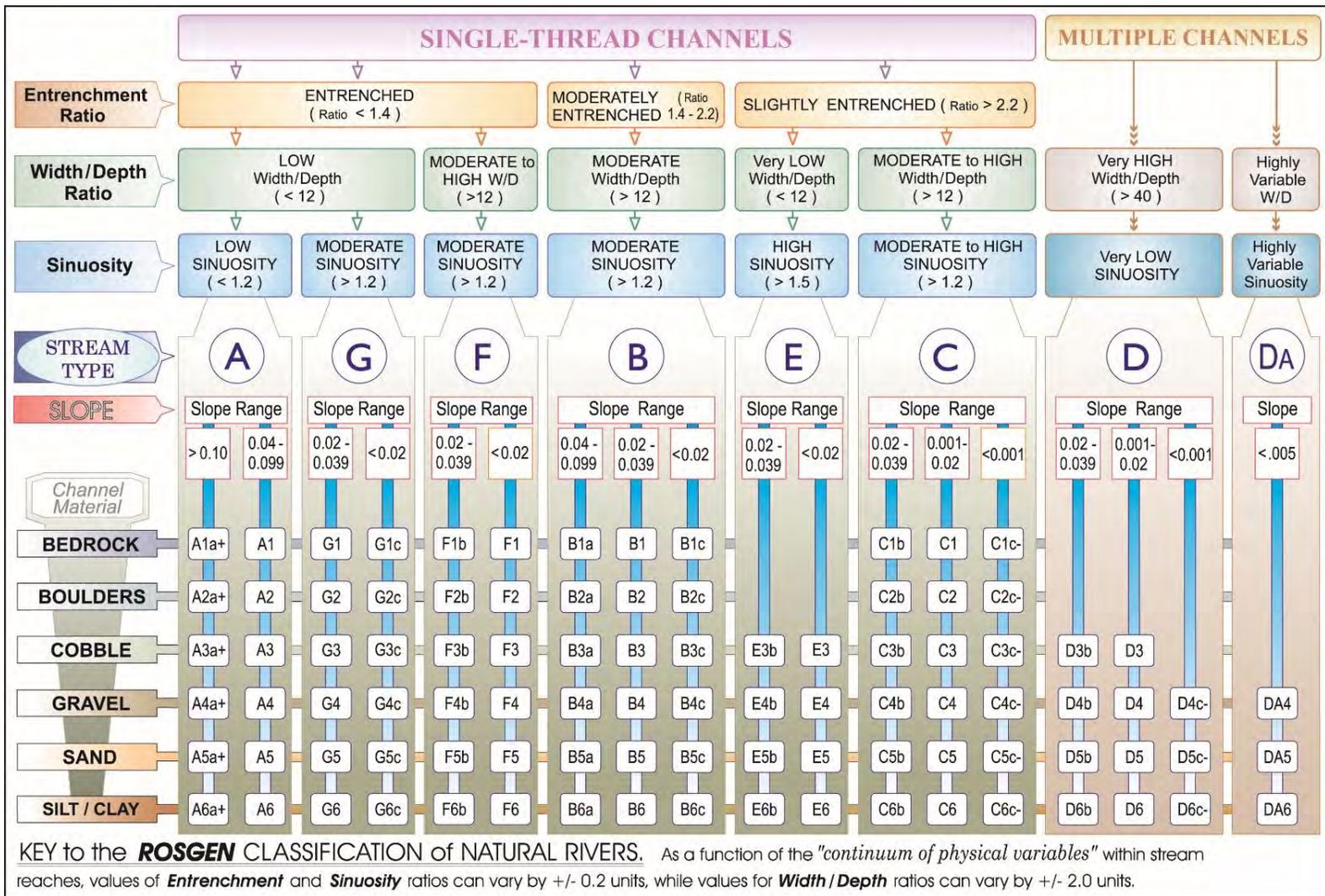


Figure 2: Reference from Applied River Morphology, Rosgen, 1996.

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www.des.nh.gov

SECTION 10 - CROSSING STRUCTURE METRICS

Existing Conditions	Existing Structure Type: <input type="checkbox"/> Bridge span <input type="checkbox"/> Pipe arch <input type="checkbox"/> Open-bottom culvert <input checked="" type="checkbox"/> Closed-bottom culvert <input type="checkbox"/> Closed-bottom culvert with stream simulation <input type="checkbox"/> Other: <input type="text"/>				
	Existing Crossing Span: <input type="text" value="10"/> feet <i>(perpendicular to flow)</i>	Culvert Diameter: <input type="text" value="2"/> feet Inlet Elevation: El. <input type="text" value="21.44"/> feet			
	Existing Crossing Length: <input type="text" value="20"/> feet <i>(parallel to flow)</i>	Outlet Elevation: El. <input type="text" value="21.34"/> feet Culvert Slope: <input type="text" value="0.005"/>			
Proposed Conditions	Proposed Structure Type:	Tier 1	Tier 2	Tier 3	Alternative Design
	Bridge Span	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Pipe Arch	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	Closed-bottom Culvert	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	Open-bottom Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Closed-bottom Culvert with stream simulation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Proposed Structure Span: <input type="text" value="10"/> feet <i>(perpendicular to flow)</i>	Culvert Diameter: <input type="text" value="3"/> feet Inlet Elevation: El. <input type="text" value="19.7"/> feet			
	Proposed Structure Length: <input type="text" value="25"/> feet <i>(parallel to flow)</i>	Outlet Elevation: El. <input type="text" value="17.45"/> feet Culvert Slope: <input type="text" value="0.09"/>			
Proposed Entrenchment Ratio:* <input type="text"/> <p><i>For Tier 2, Tier 3 and Tier 4 Crossings Only. To accommodate the entrenchment ratio, floodplain drainage structures may be utilized.</i></p>					

* Note: Proposed Entrenchment Ratio must meet the minimum ratio for each stream type listed in **Figure 3**, otherwise the applicant must address the Alternative Design criteria listed in Env-Wt 904.10.

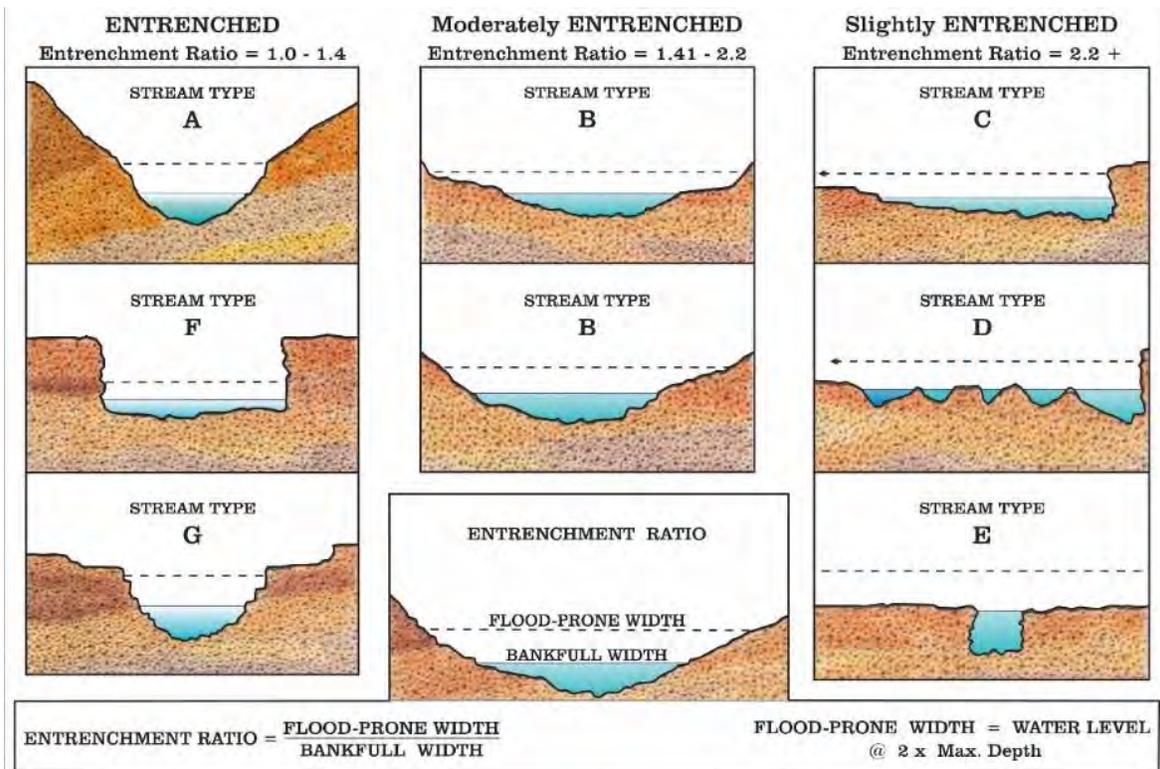
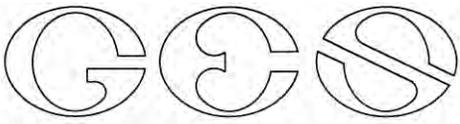


Figure 3: Reference from Applied River Morphology, Rosgen, 1996.

SECTION 11 - CROSSING STRUCTURE HYDRAULICS		
	Existing	Proposed
100 year flood stage elevation at inlet:	<input type="text"/>	<input type="text"/>
Flow velocity at outlet in feet per second (FPS):	<input type="text"/>	<input type="text"/>
Calculated 100 year peak discharge (Q) for the <i>proposed</i> structure in CFS:		<input type="text"/>
Calculated 50 year peak discharge (Q) for the <i>proposed</i> structure in CFS:		<input type="text"/>
SECTION 12 - CROSSING STRUCTURE OPENNESS RATIO		
<i>For tier 2, tier 3 and tier 4 crossings only.</i>		
Crossing Structure Openness Ratio* = <input type="text"/> * Openness box culvert = (height x width)/length Openness round culvert = (3.14 x radius ²)/length		
SECTION 13 - GENERAL DESIGN CONSIDERATIONS		
Env-Wt 904.01 requires all stream crossings to be designed and constructed according to the following requirements. Check each box if the project meets these general design considerations.		
All stream crossings shall be designed and constructed so as to:		
<input type="checkbox"/> Not be a barrier to sediment transport.		
<input type="checkbox"/> Prevent the restriction of high flows and maintain existing low flows.		
<input type="checkbox"/> Not obstruct or otherwise substantially disrupt the movement of aquatic life indigenous to the waterbody beyond the actual duration of construction.		
<input type="checkbox"/> Not cause an increase in the frequency of flooding or overtopping of banks.		
<input type="checkbox"/> Maintain or enhance geomorphic compatibility by:		
a. Minimizing the potential for inlet obstruction by sediment, wood, or debris, and		
b. Preserving the natural alignment of the stream channel.		
<input type="checkbox"/> Preserve watercourse connectivity where it currently exists.		
<input type="checkbox"/> Restore watercourse connectivity where:		
a. Connectivity previously was disrupted as a result of human activity(ies), and		
b. Restoration of connectivity will benefit aquatic life upstream or downstream of the crossing, or both.		
<input type="checkbox"/> Not cause erosion, aggradation, or scouring upstream or downstream of the crossing.		
<input type="checkbox"/> Not cause water quality degradation.		
SECTION 14 - TIER-SPECIFIC DESIGN CRITERIA		
Stream crossings must be designed in accordance with the tier specific design criteria listed in Part Env-Wt 904.		
<input type="checkbox"/> The proposed project meets the tier specific design criteria listed in Part Env-Wt 904 and each requirement has been addressed in the plans and as part of the wetland application.		
SECTION 15 - ALTERNATIVE DESIGN		
NOTE: If the proposed crossing does not meet all of the general design considerations, the tier specific design criteria, or the minimum entrenchment ratio for each given stream type listed in Figure 3 , then an alternative design plan and associated requirements must be addressed pursuant to Env-Wt 904.10.		
<input type="checkbox"/> I have submitted an alternative design and addressed each requirement listed in Env-Wt 904.10.		



Date: September 25, 2024

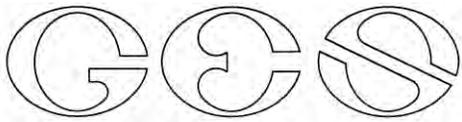
Subject: Functions and Values Analysis

Re: Minor Dredge and Fill Application
333 Borthwick Ave, Portsmouth

The subject property located on 333 Borthwick Ave, in Portsmouth, NH, identified by Tax map 240 Lot 2-1. The proposed project is for the replacement of an existing tier 1 stream crossing currently utilized as a utility access for a natural gas station on the north of the property. The project area was reviewed and field delineated by Brenden Walden, a NH CWS, in the fall of 2019 with additional flagging to encompass the project area done during February of 2024. During the wetland delineation of the property, two wetlands were identified within the scope of the project area. These wetlands area identified and discussed below as Wetland A & B. A wetland function and value assessment was conducted using the US Army Corps Highway Methodology for the three wetlands identified and will be discussed in more detail below.

The US Army Corps Highway Methodology considers 13 categories of function or value within a particular wetland area:

- 1. Groundwater recharge/discharge:** This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. Recharge should relate to the potential for the wetland to contribute water to an aquifer. Discharge should relate to the potential for the wetland to serve as an area where ground water can be discharged to the surface.
- 2. Floodflow Alteration:** This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
- 3. Fish and Shellfish Habitat:** This function considers the effectiveness of seasonal or permanent water bodies associated with the wetland in question for fish and shell fish habitat.
- 4. Water Quality—Sediment/Toxicant/Pathogen Retention:** This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens.
- 5. Water Quality—Nutrient Removal/Retention/Transformation:** This function relates to the effectiveness of the wetland to prevent adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.
- 6. Production Export:** This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.
- 7. Sediment/Shoreline Stabilization:** This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
- 8. Wildlife Habitat:** This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and or migrating species must be considered.
- 9. Recreation:** This value considers the effectiveness of the wetland and associated watercourses to provide recreational opportunities such as canoeing, boating, fishing, hunting and other active or passive recreational activities. Consumptive opportunities consume or



diminish the plants, animals or other resources that are intrinsic to the wetland, whereas non-consumptive opportunities do not.

- 10. Educational/Scientific Value:** This value considers the effectiveness of the wetland as a site for an “outdoor classroom” or as a location for scientific study or research.
- 11. Uniqueness/Heritage:** This value relates to the effectiveness of the wetland or its associated water bodies to produce certain special values. Special values may include such things as archeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geological features.
- 12. Visual Quality/Aesthetics:** This value relates to the visual and aesthetic qualities of the wetland.
- 13. Threatened or Endangered Species Habitat:** This value relates to the effectiveness of the wetland or associated water bodies to support threatened or endangered species

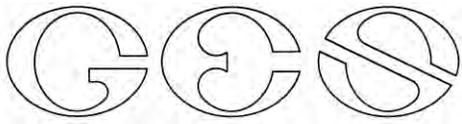
Functions are self-sustaining properties of wetlands, which exist in the absence of human involvement. Values refers to the benefits gained by human society from a given wetland or ecosystem and their inherit functions. Functions and values identified as “Principal” have been determined to be significant features of the wetland being evaluated. This does not necessarily indicate the wetland supports these functions or values at a significant level in comparison to other wetlands in the region or even near the site. A discussion of the evaluated areas and the associated functions and values is provided in the sections below.

Wetland A:

Wetland A is a man-made wetland system designed to direct stormwater around the hospital ground with hydrologic connections to adjacent wetlands through existing culverts. The wetland is dominantly vegetated with Phragmites, with some shrubs and trees existing along the boundary of the wetland. Areas of open water with unknown depth are present, and there is identified flow occurring near the norther outlet structure. Functions and values associated with this wetland identified with this wetland include, Groundwater Recharge/Discharge, Floodlfow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, Sediment and Shorleline Stabilization, and Wildlife Habitat. These functions are attributed to the nature of the wetland’s development, existing dense vegetation, association with a watercourse and hydrologic connectivity up and down stream. The proposed impacts to this wetland for the replacement and improvement of the existing culvert from three 24-inch HDPE culverts to one single 10 x 3 box culvert will have no observable impact to the identified functions and values. Additionally, this wetland will have increase connectivity and passage for aquatic organisms.

Wetland B:

Wetland B is the down stream more natural wetland system that extends off site. This wetland is composed of areas of emergent vegetation adjacent to the existing parking area with dense scrub shrub vegetation adjacent to the existing watercourse. Functions and values associated with this wetland identified with this wetland include, Groundwater Recharge/Discharge, Floodlfow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, Sediment and Shorleline Stabilization, and Wildlife Habitat. These functions are attributed to the nature of the existing dense vegetation, association with a watercourse and hydrologic connectivity up and down stream. The proposed impacts to this wetland for the replacement and improvement of the existing culvert from three 24-inch HDPE culverts to one single 10 x 3 box culvert will have no observable impact to the identified functions and values. Additionally, this wetland will have increase connectivity and passage for aquatic organisms.



GOVE ENVIRONMENTAL SERVICES, INC.

Overall, the applicant has limited all wetland impacts to the greatest extent practicable and designed the project to be the least impacting alternative. The replacement of an existing structure will provide an overall net benefit to the existing functions and values that exist within the two wetland systems.

This concludes the functions and values analysis for the Minor Dredge and Fill Application for 333 Borthwick Ave, Portsmouth. If you have any other questions or believe I can assist you and any other way please feel free to contact me either by email: bwalden@gesinc.biz or by phone: 207- 710-7863.

Sincerely

Brenden Walden

President & Wetland Scientist
Gove Environmental Services, Inc



A

B

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no
 Adjacent land use Commercial development and roadway Distance to nearest roadway or other development >50ft
 Dominant wetland systems present R2UBFx Contiguous undeveloped buffer zone present no
 Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower
 How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. A
 Latitude _____ Longitude _____
 Prepared by: BMW Date 12/7/23
 Wetland Impact:
 Type N/a Area N/a
 Evaluation based on:
 Office Field
 Corps manual wetland delineation completed? Y N

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,7,9,15	y	wetland associated with a stream, has high density of vegetation, shows varying levels of water depth
 Floodflow Alteration	Y	3,4,5,6,7,8,9,10,11,12,13,15,16,18	y	Wetland associated with a watercourse hydrologically connected to upstream and down stream wetlands.
 Fish and Shellfish Habitat	n	hydroperiod unknown	n	Level of permanent water depth is unknown
 Sediment/Toxicant Retention	Y	1,2,3,4,5,6	y	Slow moving water with high density of vegetation
 Nutrient Removal	Y	3,4,5,6,7,8,9,10,11	y	dense vegetation for nutrient acquisition
 Production Export	Y	1,2,5,7,10,11,	y	associated with a watercourse with potential for flushing
 Sediment/Shoreline Stabilization	Y	1,2,3,4,12,13,15	y	bank of water course is effectively stable from existing vegetation
 Wildlife Habitat	Y	7,8,13,17,18,19,20,21	Y	man influenced wetland with associated water course and dense vegetation
 Recreation	n	10,11	n	private property
 Educational/Scientific Value	n	11,13,14	n	private property
 Uniqueness/Heritage	n	1,10,11,17,	n	private property
 Visual Quality/Aesthetics	n	6,9,12	n	private property
ES Endangered Species Habitat		See NHB		
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no
 Adjacent land use Commercial development and roadway Distance to nearest roadway or other development >50ft
 Dominant wetland systems present PSS1/EM1C Contiguous undeveloped buffer zone present no
 Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower
 How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. B
 Latitude _____ Longitude _____
 Prepared by: BMW Date 12/7/23
 Wetland Impact:
 Type 1 Fill _____ Area 200SF _____
 Evaluation based on:
 Office X _____ Field X _____
 Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,7,9,15	y	wetland associated with a stream, has high density of vegetation, shows varying levels of water depth
 Floodflow Alteration	Y	3,4,5,6,7,8,9,10,11,12,13,15,16,18	y	Wetland associated with a watercourse hydrologically connected to upstream and down stream wetlands.
 Fish and Shellfish Habitat	n	hydroperiod unknown	n	Level of permanent water depth is unknown
 Sediment/Toxicant Retention	Y	1,2,3,4,5,6	y	Slow moving water with high density of vegetation
 Nutrient Removal	Y	3,4,5,6,7,8,9,10,11	y	dense vegetation for nutrient acquisition
 Production Export	Y	1,2,5,7,10,11,	y	associated with a watercourse with potential for flushing
 Sediment/Shoreline Stabilization	Y	1,2,3,4,12,13,15	y	bank of water course is effectively stable from existing vegetation
 Wildlife Habitat	Y	7,8,13,17,18,19,20,21	Y	Large wetland with associated water course and dense vegetation
 Recreation	n	10,11	n	private property
 Educational/Scientific Value	n	11,13,14	n	private property
 Uniqueness/Heritage	n	1,10,11,17,	n	private property
 Visual Quality/Aesthetics	n	6,9,12	n	private property
ES Endangered Species Habitat		See NHB		
Other				

Notes:

* Refer to backup list of numbered considerations.



**US Army Corps
of Engineers**®
New England District

**Appendix B
New Hampshire General Permits
Required Information and USACE Section 404 Checklist**

USACE Section 404 Checklist

1. Attach any explanations to this checklist. Lack of information could delay a USACE permit determination.
2. All references to “work” include all work associated with the project construction and operation. Work includes filling, clearing, flooding, draining, excavation, dozing, stumping, etc.
3. See GC 3 for information on single and complete projects.
4. Contact USACE at (978) 318-8832 with any questions.
5. The information requested below is generally required in the NHDES Wetland Application. See page 61 for NHDES references and Admin Rules as they relate to the information below.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See the following to determine if there is an impaired water in the vicinity of your work area. * https://nhdes-surface-water-quality-assessment-site-nhdes.hub.arcgis.com/ https://www.des.nh.gov/water/rivers-and-lakes/water-quality-assessment https://www4.des.state.nh.us/onestopdatamapper/onestopmapper.aspx	X	
2. Wetlands	Yes	No
2.1 Are there are streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?	X	
2.2 Are there proposed impacts to tidal SAS, prime wetlands, or priority resource areas? Applicants may obtain information from the NH Department of Resources and Economic Development Natural Heritage Bureau (NHB) DataCheck Tool for information about resources located on the property at https://www4.des.state.nh.us/NHB-DataCheck/ .		X
2.3 If wetland crossings are proposed, are they adequately designed to maintain hydrology, sediment transport & wildlife passage?	X	
2.4 Would the project remove part or all of a riparian buffer? (Riparian buffers are lands adjacent to streams where vegetation is strongly influenced by the presence of water. They are often thin lines of vegetation containing native grasses, flowers, shrubs and/or trees that line the stream banks. They are also called vegetated buffer zones.)		X
2.5 The overall project site is more than 40 acres?		X
2.6 What is the area of the previously filled wetlands?	unknown	
2.7 What is the area of the proposed fill in wetlands?	750 SF	
2.8 What % of the overall project sire will be previously and proposed filled wetlands?	unknown	
3. Wildlife	Yes	No
3.1 Has the NHB & USFWS determined that there are known occurrences of rare species, exemplary natural communities, Federal and State threatened and endangered species and habitat, in the vicinity of the proposed project? (All projects require an NHB ID number & a USFWS IPAC determination.) NHB DataCheck Tool: https://www4.des.state.nh.us/NHB-DataCheck/ . USFWS IPAC website: https://ipac.ecosphere.fws.gov/	X	

3.2 Would work occur in any area identified as either “Highest Ranked Habitat in N.H.” or “Highest Ranked Habitat in Ecological Region”? (These areas are colored magenta and green, respectively, on NH Fish and Game’s map, “2010 Highest Ranked Wildlife Habitat by Ecological Condition.”) Map information can be found at: <ul style="list-style-type: none"> • PDF: https://wildlife.state.nh.us/wildlife/wap-high-rank.html. • Data Mapper: www.granit.unh.edu. • GIS: www.granit.unh.edu/data/downloadfreedata/category/databycategory.html. 		X
3.3 Would the project impact more than 20 acres of an undeveloped land block (upland, wetland/waterway) on the entire project site and/or on an adjoining property(s)?		X
3.4 Does the project propose more than a 10-lot residential subdivision, or a commercial or industrial development?		X
3.5 Are stream crossings designed in accordance with the GC 31?		X
4. Flooding/Floodplain Values	Yes	No
4.1 Is the proposed project within the 100-year floodplain of an adjacent river or stream?		XX
4.2 If 4.1 is yes, will compensatory flood storage be provided if the project results in a loss of flood storage?		
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the RPR Form (www.nh.gov/nhdhr/review) with your DES file number shall be sent to the NH Division of Historical Resources as required on Page 37 GC 14(d) of the GP document**	X	
6. Minimal Impact Determination (for projects that exceed 1 acre of permanent impact)	Yes	No
Projects with greater than 1 acre of permanent impact must include the following: <ul style="list-style-type: none"> • Functional assessment for aquatic resources in the project area. • On and off-site alternative analysis. • Provide additional information and description for how the below criteria are met. 		
6.1 Will there be complete loss of aquatic resources on site?		
6.2 Have the impacts to the aquatic resources been avoided and minimized to the greatest extent practicable?		
6.3 Will all aquatic resource function be lost?		
6.4 Does the aquatic resource (s) have regional significance (watershed or ecoregion)?		
6.5 Is there an on-site alternative with less impact?		
6.6 Is there an off-site alternative with less impact?		
6.7 Will there be a loss to a resource dependent species?		
6.8 Are indirect impacts greater than 1 acre within and adjacent to the project area?		
6.9 Does the proposed mitigation replace aquatic resource function for direct, indirect, and cumulative impacts?		

*Although this checklist utilizes state information, its submittal to USACE is a federal requirement.

** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

2.0 GENERAL INFORMATION

PREPARED BY (AGENT CONTACT): Brenden Walden

2.1 PROJECT NAME, PLANS, AND MAPS

PROJECT NAME: Portsmouth Regional Hospital Stream Crossing Replacement

SITE PLANS/MAPS: Existing Conditions Plan
Proposed Plan
8½"x11" USGS Quad Sheet Locus Map
8½"x11" Wildlife Action Plan
8½"x11" Aerial Imagery
11x17" Overview Plan
11x17" Wetland Impact Plan Detail
11x17" Project Site Tax Map

2.2 TECHNICAL STANDARDS

- 2.2.1 Gove Environmental Services, Inc. delineated the wetlands during the spring of 2019, utilizing the standards of the Corps of Engineers *Wetlands Delineation Manual*¹ and the NH DES Wetlands Bureau *Code of Administrative Rules*².
- 2.2.2 Wetland flags were surveyed by James Vera & Associates, Inc.
- 2.2.3 Wetlands were classified by GES utilizing the criteria of *Classification of Wetlands and Deepwater Habitats of the United States*³.
- 2.2.4 Dominant hydric soil conditions within the wetlands were identified by GES utilizing the criteria of *Field Indicators for Identifying Hydric Soils in New England*⁴.
- 2.2.5 Dominance of wetland vegetation was assessed by GES utilizing the *National List of Plant Species That Occur in Wetlands: Northeast (Region 1)*⁵.

¹ Environmental Laboratory. 2012. "Regional Supplement to the Corps of Engineers Wetlands Delineation Manual: Northcentral and Northeast Region." Version 2.0. Technical Report ERDC/EL TR-10-12.

² NH Code Admin. R. [Wt] Ch. 100-1000.

³ Cowardin, L. M., 1979. *Classification of Wetlands and Deepwater Habitats in the United States*. Washington, D.C.: U.S. Department of the Interior, Fish and Wildlife Service.

⁴ New England Hydric Soils Technical Committee, Version 4. June 2020. "Field Indicators for Identifying Hydric Soils in New England."

⁵ Lichvar, R.W. & Kartesz, J.T. 2009. *North American Digital Flora: National Wetland Plant List*. 2.2.1.

2.3 SITE DESCRIPTION/WETLANDS OVERVIEW

The subject property is located on Tax Map 0240-0002-0001 and is a commercially developed property currently utilized by Portsmouth Regional Hospital. Additional site improvements associated with the hospital include parking stormwater and a helicopter landing pad. A wetland delineation was conducted in 2019 on a limited area associated with a prior wetland permit application for the development of an Oncology Wing for the hospital, NH DES Permit # 2024-00119. With the new proposed work associated with the stream crossing replacement the wetland delineation was expanded to the rear to encompass the all associated jurisdictional features within the proposed project area. This included expanding the man-made drainage feature identified in the functional assessment as wetland A. This is a drainage feature associated with the hospital and was originally designed to direct storm water with the construction of the hospital. Current vegetation in this area consists of some saplings along the wetland boundary with the interior of the wetland dominantly vegetated with phragmites and cattails. The wetland continues beyond the crossing to the north east and extends off property. This wetland is a more natural feature with several different wetland classes throughout, including, open water, emergent, scrubshrub and forested. A third wetland area will be included in the discussion within the functions and values analysis but the wetland is an isolated man-made detention basin that will have no impacts associated with the culvert replacement. Functions and values of each of these areas are to be discussed in more detail in the functional assessment below.

3.0 PROJECT OVERVIEW

The applicant's proposed project is for the replacement and improvement of an existing crossing structure. The crossing replacement will remove 3 existing 24-inch HDPE culverts in exchange for the installation of one 25L x 10W x 3H concrete box culvert. The impact location is needed to maintain access to a natural gas facility beyond the crossing. Additionally, the proposed crossing will improve existing hydrologic movement between the two wetland systems an area believed to be contributing to flooding occurring within the watershed. With the replacement of the crossing structure the applicant will also address immediate grading near the inlet and the outlet of the structure to ensure there are no obstructions or low points that could undercut the structure. Two coffer dams and a dewatering feature will be used during the construction to make sure there are no negative impacts to water quality as a result of the construction. The proposed replacement will have impacts to a tier 1 stream and will meet all requirements in chapter 900.

3.1 Env-Wt 900 STREAM CROSSING REQUIREMENTS

Env-Wt 903.04 Information Required for All Stream Crossing Standard Permit Applications. In addition to the information required by Env-Wt 311, the applicant shall submit the following for all stream crossing projects that require a standard permit:

(a) On the USGS map or updated data based on LiDAR required by Env-Wt 311.06, the following:

(1) The approximate boundaries of the contributing watershed;

See attached map showing the limits of contributing watershed.

(2) *The size of the contributing watershed; and*

195-acres

(3) *Identification of the stream tier based on watershed size;*

Tier 1.

(b) *Plans showing the following:*

(1) *The scale, a north arrow, and at least 3 cross-sections outside of the construction disturbance area that are representative of the stream system away from the area of direct influence by the crossing;*

Please see attached plan set.

(2) *Clearing limits showing all proposed work areas;*

There isn't any additional clearing required for this replacement. Limit of temporary disturbance are outlined by the erosion controls.

(3) *For both the existing structure, if any, and the proposed structure, the following:*

a. *Location;*

See existing and proposed design.

b. *Type;*

Existing: HDPE culvert.

Proposed: Concrete box culvert

c. *Dimensions; and*

Existing: Three 24-inch Culverts

Proposed: One 25ft L x 10ft W x 3ft H

d. *Inlet and outlet invert elevations;*

See attached detail sheet on C3-00.

(4) *The extent of channel excavation and filling;*

See attached limits of disturbance on C3-00.

(5) *Road locations, including road edges, centerline, and boundaries of the right-of-way;*

See attached EC plan.

(6) Proposed channel work including bank erosion control features, grade control, and channel linings; and

See attached proposed limits of disturbance on C3-00

(7) For the proposed structure, cross-sections showing the water surface elevation resulting from the applicable design storm, with bed material and backfill zones;

See attached drainage report.

(c) Existing crossing metrics, including:

(1) Existing riparian zone, including the extent and type of existing vegetation surrounding or in the stream bank; and

vegetation in the immediate project vicinity includes emergent wetland vegetation and sapplings along the boundary of the watercourse.

(2) Existing tailwater control, including its location and materials, and pool configuration;

N/A

(d) The dewatering system, as follows:

(1) Estimates of the maximum flow anticipated during construction, including any summer storm estimates;

See attached details provided on the dewatering system on sheet C3-01

(2) The hydraulic calculation for the bypass pipe or channel size, length, and gradient;

See detail on Sheet C3-01 and calculations in the drainage report.

(3) Location, height, and width of the diversion dam;

See details on sheet C3-01.

(4) Sump locations, including estimate of necessary flow and sump capacity;

See details on C3-01.

(5) Backwater prevention method; and

See details on C3-01.

(6) Sediment treatment plan with methods, release point, and extent;

See details on filter bag on sheet C3-01.

(e) Erosion and pollution controls, as follows:

(1) Any additional methods of controlling erosion;

Erosion control methods are outlined in the Erosion notes on C3-00.

(2) A soil stabilization plan, including but not limited to where to cover stockpiles and place straw bales; and

See attached stabilization methods outlined on C3-01.

(3) Pollution control methods for pumps, fuel stations, and equipment storage;

See attached plan notes that identify general construction notes.

(f) The number and location of footings, if any, and the following for each:

(1) Estimate of bearing capacity;

N/A

(2) Dimensions of each footing; and

N/A

(3) Footing depth;

N/A

(g) A narrative explaining why the cross-sections identified pursuant to (b)(7), above, are representative;

The cross sections of the crossing location are representative of the drainage structure and the general characteristics of the stream including slope and depth.

(h) The design features used to improve aquatic organism passage and the expected distance, in linear feet, of downstream and upstream improvement for aquatic organism passage or fish passage;

The proposed replacement of 3 existing HDPE culverts to a single box culvert will increase the hydrologic connectivity while allowing for better ease of aquatic passage in the area.

(i) The hydraulic capacity of the proposed crossing, in terms of flood frequency event, and of the existing crossing, if any; and

See attached drainage report showing the hydraulic capacity for the required storm events.

(j) The following channel information at the crossing and for the reference reach:

(1) The classification of the stream using the Rosgen classification system as described in Applied River Morphology by Dave Rosgen, 1996, available as noted in Appendix B, at the crossing and upstream and downstream of the crossing;

N/A Tier 1 Stream Crossing Replacement.

(2) Bankfull width;

N/A Tier 1 Stream Crossing Replacement.

(3) Bankfull depth;

N/A Tier 1 Stream Crossing Replacement.

(4) Entrenchment ratio;

N/A Tier 1 Stream Crossing Replacement.

(5) Sinuosity; and

N/A Tier 1 Stream Crossing Replacement.

(6) Flood-prone width.

N/A Tier 1 Stream Crossing Replacement.

Env-Wt 904.01 General Design Considerations.

(a) All stream crossings, whether over tidal or non-tidal waters, shall be designed and constructed so as to:

(1) Not be a barrier to sediment transport;

The proposed design will improve existing conditions at the crossing location.

(2) Not restrict high flows and maintain existing low flows;

The proposed replacement crossing structure will meet the flow requirement for a tier 1 stream crossing.

(3) Not obstruct or otherwise substantially disrupt the movement of aquatic organisms indigenous to the waterbody beyond the actual duration of construction;

The proposed crossing replacement structure will provide an improvement to the available area for organisms to cross.

(4) Not cause an increase in the frequency of flooding or overtopping of banks;

The proposed crossing will meet the storm requirements for a tier 1 stream crossing.

(5) Maintain or enhance geomorphic compatibility by:

a. Minimizing the potential for inlet obstruction by sediment, wood, or debris; and

The larger crossing size will reduce the potential for inlet obstruction by wood, sediment and debris at the crossing location.

b. Preserving the natural alignment of the stream channel;

There are no proposed changes to the alignment of the stream channel.

(6) Preserve watercourse connectivity where it currently exists;

The proposed replacement will improve connectivity at this crossing location.

(7) Restore watercourse connectivity where:

a. Connectivity previously was disrupted as a result of human activity(ies); and

The proposed project will look to improve connectivity with the new crossing design.

b. Restoration of connectivity will benefit aquatic organisms upstream or downstream of the crossing, or both;

The purpose of this crossing is to benefit both upstream and downstream flows

(8) Not cause erosion, aggradation, or scouring upstream or downstream of the crossing; and

There should be no negative impacts to scouring upstream or down stream as a result of the replacement

(9) Not cause water quality degradation.

There should be no negative impacts to water quality with the proposed work using the proposed BMP's.

(b) For stream crossings over tidal waters, the stream crossing shall be designed to:

(1) Match the velocity, depth, cross-sectional area, and substrate of the natural stream; and

N/A

(2) Be of sufficient size to not restrict bi-directional tidal flow over the natural tide range above, below, and through the crossing.

N/A

Env-Wt 904.03 Tier 1 Stream Crossings.

(a) A tier 1 stream crossing shall be a crossing located on a watercourse where the contributing watershed is less than or equal to 200 acres.

195-acres

(b) Tier 1 stream crossings shall:

(1) Meet the general design considerations specified in Env-Wt 904.01;

The proposed design meets these requirements.

(2) Be sized so as to accommodate the greater of:

a. The 50-year design storm; or

The proposed design meets this requirement.

b. Applicable federal, state, or local requirements; and

(3) Be a span structure, pipe arch, open-bottom culvert, or closed-bottom culvert, with or without being embedded with stream simulation.

The proposed replacement structure is a designed box culvert.

(c) An applicant may propose a design that does not meet the criteria of (b)(1) or (b)(2)a., above, by submitting a request for approval of an alternate design as specified in Env-Wt 904.10. In accordance with Env-Wt 903.01(f)(1)a., a project that includes a request to approve an alternative design for a tier 1 stream crossing shall be a minor impact project.

N/A.

(d) An existing legal crossing that would be classified as tier 1 under (a), above, may be repaired or replaced in-kind as specified in Env-Wt 904.08 pursuant to:

(1) A routine roadway maintenance SPN as specified in Env-Wt 308.04 or registration as specified in Env-Wt 309.03; or

N/A

(2) If the crossing is part of a trail, a trail SPN as described in Env-Wt 308.04.

N/A

(e) Compensatory mitigation shall not be required for any tier 1 minimum impact project.

N/A

**1985 USGS QUAD SHEET LOCUS MAP
Scale 1:24,000**

USGS map



Legend

- State
- County
- City/Town

Map Scale

1: 24,000

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Map Generated: 9/5/2023



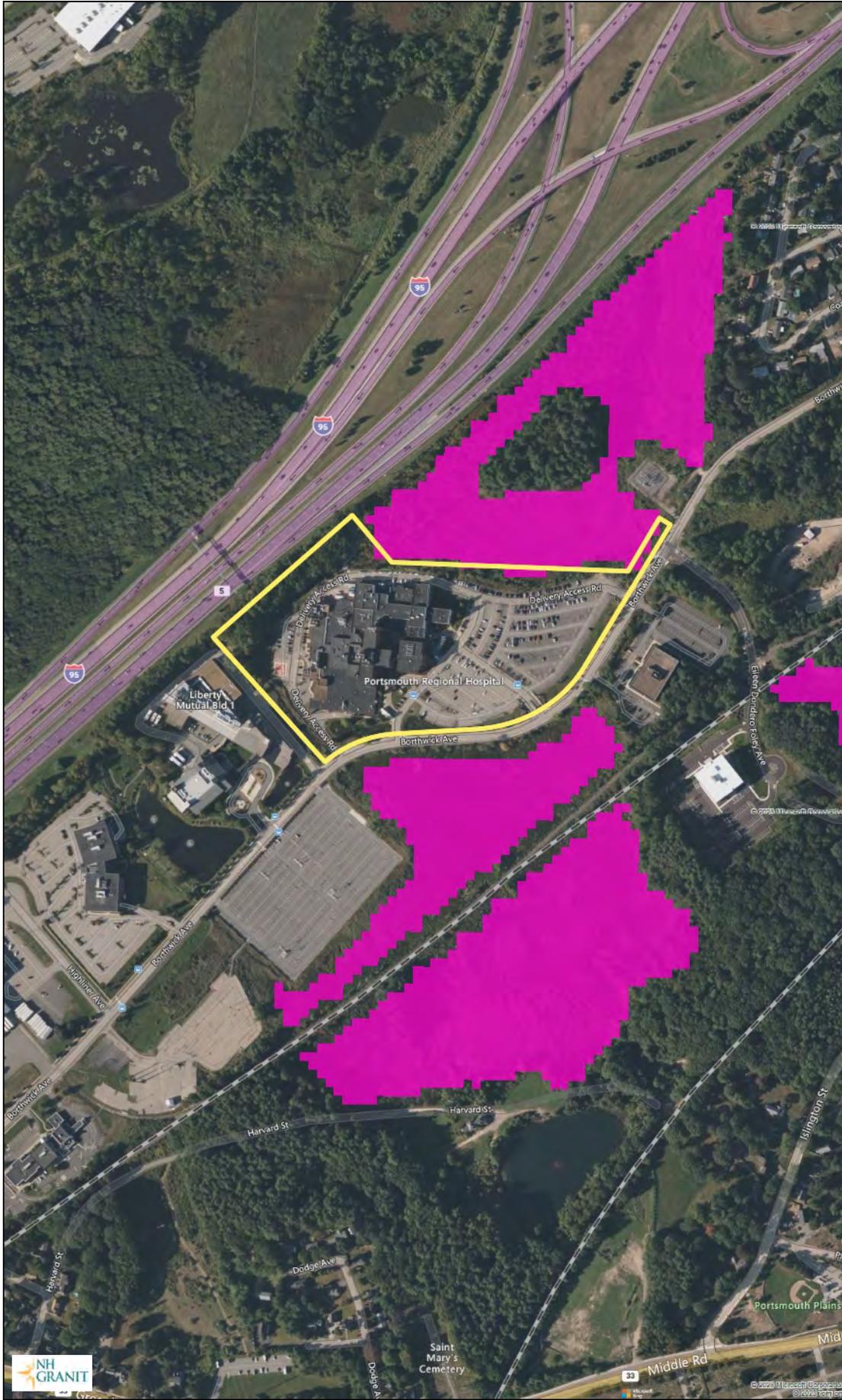
Notes

333 Borthwick Ave
Portsmouth, NH



**Wildlife Action Plan
Scale 1:24,000**

Highest ranked Habitat



Legend

- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat**
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape

Map Scale

1: 6,494



© NH GRANIT, www.granit.unh.edu

Map Generated: 9/5/2023

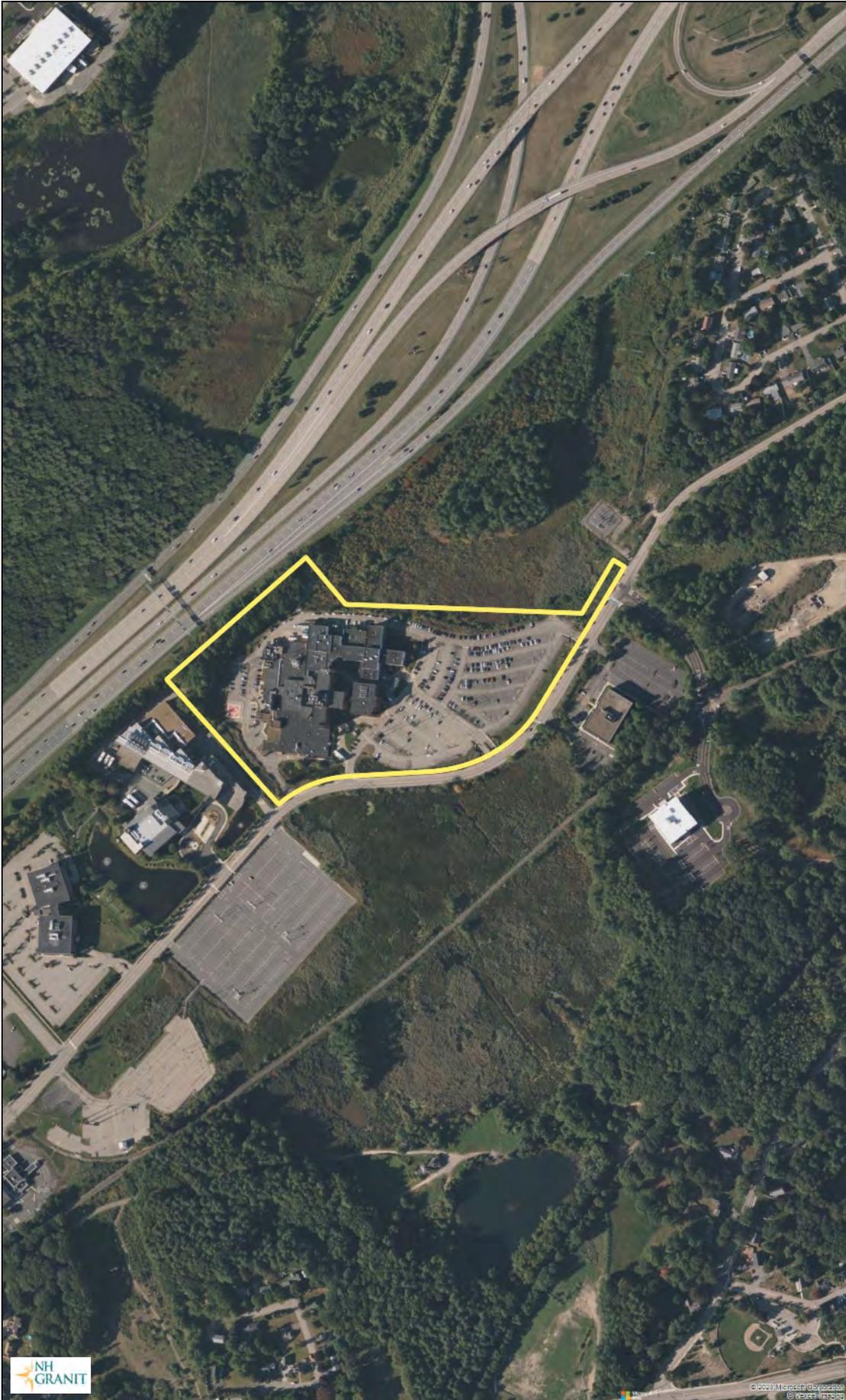
Notes

333 Borthwick Ave
Portsmouth, NH



Aerial Imagery

Aerial map



Legend

- State
- County
- City/Town

Map Scale

1: 6,494

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Map Generated: 9/5/2023



Notes

333 Borthwick Ave
Portsmouth, NH



**BOWMAN CONSULTING
SUPPLEMENTAL PACKAGE**

Jul 08, 2024

New Hampshire Department of Environmental Services (NHDES)

Re: **Portsmouth Regional Hospital (PRH) – Culvert Replacement**
333 Borthwick Ave, Portsmouth, NH 03801

Portsmouth Regional Hospital is an existing acute hospital on a ±21-acre parcel at 333 Borthwick Ave, Portsmouth, NH 03801. Along the northern property boundary (adjacent to interstate 10) there is an existing *Unitil* natural gas enclosure with regulators and valves. There is an existing gravel drive with (3) 24" culverts that cross over a man made swale (now classified as wetland) that *Unitil* uses to service their equipment. The existing (3) 24" culverts were installed in 1988 based on design drawings by *Kimball Chase*.

On behalf of Portsmouth Regional Hospital and HCA Healthcare, at the request of the City of Portsmouth, Bowman is proposing to remove the existing (3) 24" culverts and replace with a 10' wide by 3' tall box culvert. All construction and materials shall be in compliance with the *New Hampshire Stream Crossing Guidelines*, latest edition. Temporary disturbance will be ±1,600 square feet and permanent disturbance will be ±750 square feet.

The contributing drainage area to the existing crossing is ±195-acres, based on USGS topographic delineation. A majority of the contributing drainage area is state prime wetland that flows from south of Borthwick Avenue through two (2) city owned and maintained 18" PVC pipes.

See **Appendix A** for the Overall Drainage Area Map. Contributing drainages area parameters:

- Area: ±195-acres
- Time of Concentration: 128.4 minutes
 - 100' sheet flow at 0.5% slope with 0.95 Manning's N Value. Two-year, 24 hr rainfall: 3.33"
 - 3,780' shallow concentrated flow at 0.5% slope (unpaved)
- Curve Number: 90 (very conservative estimate)

See **Appendix B** for Peak Stormwater Runoff outputs, based on Hydrology Studio 2024 v 3.0.0.32 with Portsmouth, NH IDF Data:

- 2-year storm event: 71.57 cubic ft/ second (cfs)
- 10-year storm event: 136.0 cubic ft/ second (cfs)

The replacement box culvert has been sized to meet and exceed the 10-year storm event. The 10' wide x 3' tall box culvert at 0.09% slope has a flow capacity of 164.93 cfs. See **Appendix C** for Studio Express 2023 v1.0.0.15 sizing model results.

If you have any questions, please feel free to reach me at mhamby@bowman.com.



Matthew Hamby, PE

Principal, Civil Engineer
Bowman Consulting



Kai Burk, PE
Chief Civil Engineer

Attachments:

- Appendix A – Overall Drainage Basin Map
- Appendix B – Peak Stormwater Runoff Results
- Appendix C – Box Culvert Sizing Results
- Appendix D – Construction Documents

Pre Overall



Hydrograph by Return Period

Project Name:

Hydrology Studio v 3.0.0.32

07-15-2024

Hyd. No.	Hydrograph Type	Hydrograph Name	Peak Outflow (cfs)							
			1-yr	2-yr	3-yr	5-yr	10-yr	25-yr	50-yr	100-yr
1	NRCS Runoff	Pre Overall		71.57			136.0			244.7

Tc by TR55 Worksheet

Project Name:

Hydrology Studio v 3.0.0.32

07-15-2024

Overall NRCS Runoff

Hyd. No. 1

Description	Segments			Tc (min)
	A	B	C	
Sheet Flow				
Description	Overall			
Manning's n	0.950	0.013	0.013	
Flow Length (ft)	100			
2-yr, 24-hr Precip. (in)	3.33	2.28	2.28	
Land Slope (%)	.5			
Travel Time (min)	73.22	0.00	0.00	73.22
Shallow Concentrated Flow				
Flow Length (ft)	3780			
Watercourse Slope (%)	0.50	0.00	0.00	
Surface Description	Unpaved	Paved	Paved	
Average Velocity (ft/s)	1.14			
Travel Time (min)	55.22	0.00	0.00	55.22
Channel Flow				
X-sectional Flow Area (sqft)				
Wetted Perimeter (ft)				
Channel Slope (%)				
Manning's n	0.013	0.013	0.013	
Velocity (ft/s)				
Flow Length (ft)				
Travel Time (min)	0.00	0.00	0.00	0.00
Total Travel Time				128.44 min

Channel Report

BOX CULVERT

Channel 1

RECTANGULAR

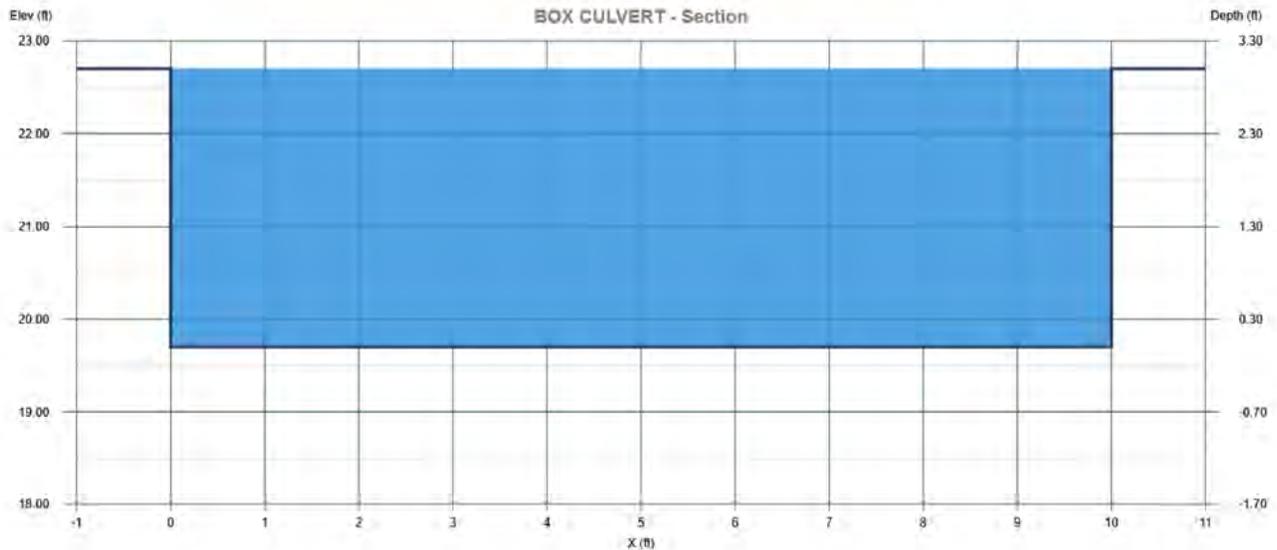
Bottom Width = 10.00 ft
Total Depth = 3.00 ft
Invert Elevation = 19.70 ft
Channel Slope = 0.100 %
Manning's n = 0.013

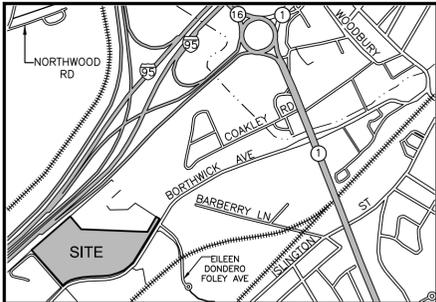
DISCHARGE

Method = Q vs Depth
Q Min = 4.67 cfs
Q Max = 164.93 cfs
Increments = 10

CALCULATION SAMPLE

Flow	Depth	Area	Velocity	WP	n-value	Crit Depth	HGL	EGL	Max Shear	Top Width
(cfs)	(ft)	(sqft)	(ft/s)	(ft)		(ft)	(ft)	(ft)	(lb/sqft)	(ft)
164.93	3.00	30.00	5.50	16.00	0.013	2.04	22.70	23.17	0.19	10.00

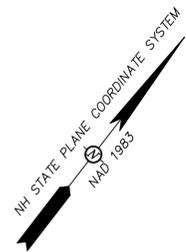
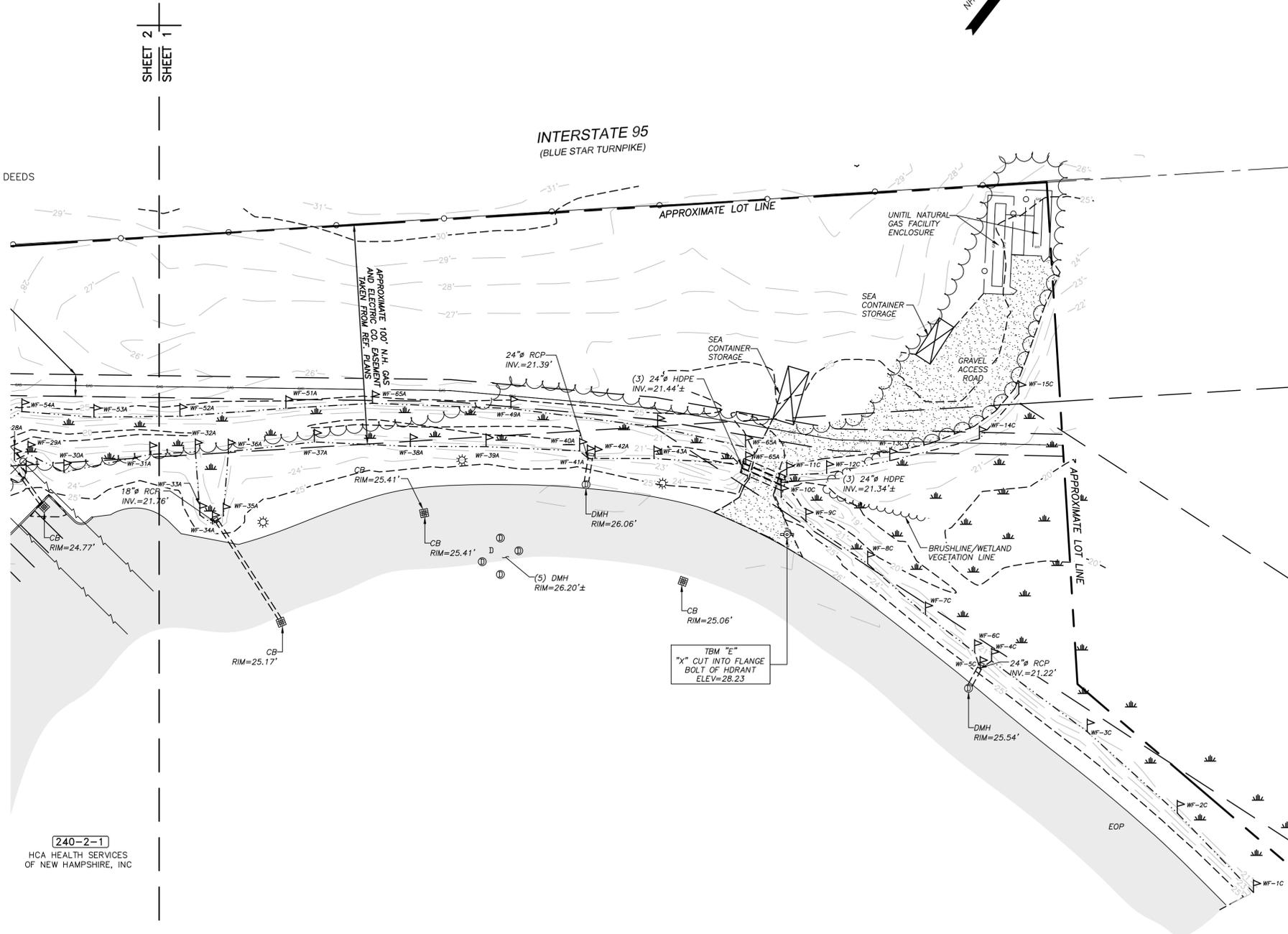




LOCUS (N.T.S.)

LEGEND:

- CHAIN LINK FENCE
- ⊙ UTILITY POLE
- ⊙ UTILITY POLE W/TRANSFORMER
- GUY
- ⊙ LIGHT POLE
- OVERHEAD WIRES
- UGU UNDERGROUND UTILITIES
- RCRD ROCKINGHAM COUNTY REGISTRY OF DEEDS
- 240-02-01 TAX SHEET / LOT NO.
- EOP EDGE OF PAVEMENT
- LA LANDSCAPED AREA
- VGC VERTICAL FACED GRANITE CURB
- SGC SLOPED FACED GRANITE CURB
- PSNH PUBLIC SERVICE CO. OF NH
- ♿ HANDICAP PARKING SPACE
- ☐ CATCH BASIN (SQUARE)
- ⊙ CATCH BASIN (ROUND)
- ⊙ DRAIN MANHOLE
- ⊙ SEWER MANHOLE
- SIGN
- DOUBLE POST SIGN
- ⊙ ELECTRIC METER
- ⊙ GAS VALVE
- W WATER LINE
- S SEWER LINE
- D DRAIN LINE
- G GAS LINE
- ☐ CONIFEROUS TREE
- ☐ DECIDUOUS TREE
- TREE LINE
- ☐ WATER GATE VALVE
- ☐ WATER SHUT OFF VALVE
- ☐ HYDRANT
- ☐ FIRE CONNECTION
- ☐ RIP RAP
- ☐ CEMENT CONCRETE PAD
- ☐ CONCRETE RETAINING WALL
- ☐ LANDSCAPE/LAWN AREA
- (15) PARKING SPACE COUNT



NOTES:

1. OWNER OF RECORD: HCA HEALTH SVC OF NH INC D/B/A PRH 32902
C/O DUCHARME MCMILLEN & ASSOCIATES
ADDRESS: PO BOX 80610, INDIANAPOLIS, IN 46280
DEED REFERENCE: BK:2784 PG:1340
TAX SHEET: 240-02-01
2. ZONED: OFFICE RESEARCH (OR)
MIN. LOT AREA: 3 ACRES FRONT YARD SETBACK: 50'
FRONTAGE: 300' SIDE YARD SETBACK: 75'
BUILDING COVERAGE: 30% REAR YARD SETBACK: 50'
STRUCTURE HEIGHT: 60'
3. THE INTENT OF THIS PLAN IS TO SHOW THE LIMITED AS-BUILT CONDITIONS OF THE BUILDING ADDITION AND RECONFIGURED DETENTION BASIN. THE BOUNDARY INFORMATION SHOWN IS APPROXIMATE AND TAKEN FROM THE REFERENCE PLANS AND DOES NOT CONSTITUTE AN UPDATED BOUNDARY SURVEY BY THIS OFFICE.
4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS OF RECORD, AND PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE ☎ 1-888-DIG-SAFE.
5. HORIZONTAL DATUM: NAD 1983 ESTABLISHED BY SURVEY GRADE GPS OBSERVATION AND NGS "OPUS" SOLUTION. REFERENCE FRAME: NAD83 (2011)(EPOCH: 2010.0000), US SURVEY FOOT.
VERTICAL DATUM: NAVD 1988. PRIMARY BENCHMARK: CITY OF PORTSMOUTH "ALBA"
6. THE PLAN IS BASED UPON A FIELD SURVEY COMPLETED IN JANUARY OF 2024 WITH TRIMBLE S5 ROBOTIC TOTAL STATION, CARLSON BRX7 RTK GPS UNITS, PANASONIC FZ-M1/TRIMBLE TSC7 DATA COLLECTORS.
7. THE PARCEL SHOWN HEREON LIES WITHIN ZONE X (AREA OF MINIMAL FLOOD HAZARD) AS IDENTIFIED ON FLOOD INSURANCE RATE MAP, ROCKINGHAM COUNTY, NEW HAMPSHIRE, MAP NUMBER 33015C0260E, EFFECTIVE DATE MAY 17, 2005 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
8. THE DELINEATION OF THE WETLANDS SHOWN HEREON WAS BY BRENDEN WALDEN NEW HAMPSHIRE CERTIFIED WETLAND SCIENTIST #297, GOVE ENVIRONMENTAL SERVICES, LLC., 8 CONTINENTAL DRIVE, UNIT H, EXETER, NH 03833.
9. CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE ESTABLISHMENT OF ANY GRADES OR ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOCIATES, INC.

REFERENCE PLANS:

1. GAS LINE AS-BUILT EASEMENT AND CONSERVATION PLAN, PREPARED FOR HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH, DATED 10/31/85. RCRD PLAN #D-15830.
2. SCHILLER S/S-OCEAN ROAD S/S, 115 KV TRANSMISSION LINE #U181, MILE 4, PLAN-6775-A, DATED 7/10/2009, BY NORTHEAST UTILITIES, NOT RECORDED.
3. SUBDIVISION OF LAND, FRANETAL REALTY TRUST COMPANY, OPTIONED TO LIBERTY MUTUAL INSURANCE COMPANY, PORTSMOUTH, NEW HAMPSHIRE, REVISED TO 2/19/71 RCRD PLAN #2190.
4. LIMITED EXISTING CONDITIONS PLAN - 333 BORTHWICK AVENUE, PORTSMOUTH, NEW HAMPSHIRE - ASSESSORS PARCEL #240-002-001 FOR HCA HEALTH SERVICES OF NEW HAMPSHIRE ON NOVEMBER 19, 2019 BY THIS OFFICE. NOT RECORDED
4. LIMITED AS-BUILT PLAN - PORTSMOUTH REGIONAL HOSPITAL - HCA, 333 BORTHWICK AVENUE, PORTSMOUTH, NEW HAMPSHIRE, TAX MAP 240, LOT 2-1, PREPARED FOR: DPR CONSTRUCTION, LAND OF: HCA HEALTH SERVICES OF NH ON FEBRUARY 29, 2024 BY THIS OFFICE. NOT RECORDED

DIRECT ABUTTERS TO SUBJECT PARCEL:

240-01 LIBERTY MUTUAL INSURANCE ATTN: JOANNE BRAGG 175 BERKLEY STREET BOSTON, MA 02116 BK: 2057 PG: 0357	240-2-2 JACKSON GRAY CONDOS MASTER CARD 330 BORTHWICK AVE PORTSMOUTH, NH 03801 BK: 2648 PG: 0901	234-7-3 CITY OF PORTSMOUTH 1 JUNKINS AVENUE PORTSMOUTH, NH 03801 BK: 4211 PG: 1155
240-2-2001 CITY OF PORTSMOUTH DPW PO BOX 628 PORTSMOUTH, NH 03802 BK: 2648 PG: 0901	240-2-1001 CITY OF PORTSMOUTH DPW PO BOX 628 PORTSMOUTH, NH 03802 BK: 2648 PG: 0902	

REV. NO.	DATE	DESCRIPTION	APPR'D
----------	------	-------------	--------

LIMITED EXISTING CONDITIONS PLAN
PORTSMOUTH REGIONAL HOSPITAL - HCA
333 BORTHWICK AVENUE
PORTSMOUTH, NEW HAMPSHIRE
TAX MAP 240 LOT 2-1
PREPARED FOR: BOWMAN
LAND OF: HCA HEALTH SERVICES OF NH



REL	DATE: 02/29/2024
DRAWN BY	JOB NO: 24-2003
RMF	SCALE: 1" = 60'
PROJECT MGR	DWG NAME: 24-2003.DWG
	PLAN NO: 24-2003.DWG
	SHEET: 1 OF 3

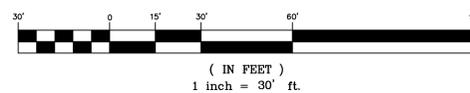
101 SHATTUCK WAY, SUITE 8, NEWINGTON, N.H., 03801 - 603-436-3557 - ©2024

SURVEYOR'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

LICENSED LAND SURVEYOR _____ DATE _____

GRAPHIC SCALE



SHEET 2
SHEET 1

SHEET 2
SHEET 1

NH STATE PLANE COORDINATE SYSTEM
NAD 1983

INTERSTATE 95
(BLUE STAR TURNPIKE)

APPROXIMATE LOT LINE

APPROXIMATE
10' GAS MAIN
EASEMENT TAKEN
FROM REF. PLANS

SHEET 2
SHEET 1

SHEET 2
SHEET 1

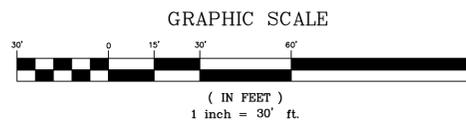
SHEET 2
SHEET 3

240-01
LIBERTY MUTUAL INSURANCE
ATTN: JOANNE BRAGG
175 BERKLEY STREET
BOSTON, MA 02116
BK: 2057 PG: 0357

240-2-1
HCA HEALTH SERVICES
OF NEW HAMPSHIRE, INC

SURVEYOR'S CERTIFICATION
"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

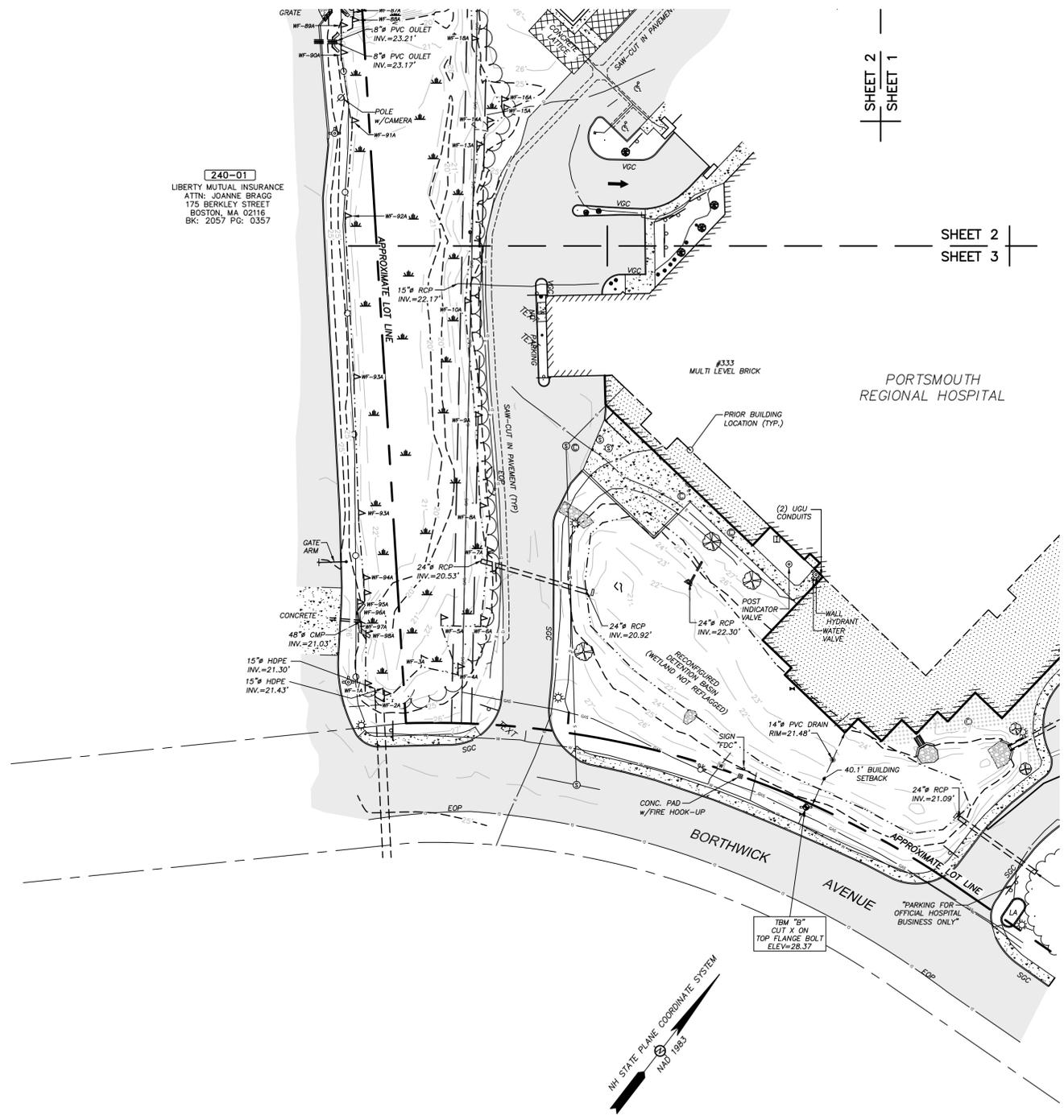
LICENSED LAND SURVEYOR _____ DATE _____



REV. NO.	DATE	DESCRIPTION	APPR'D
LIMITED EXISTING CONDITIONS PLAN PORTSMOUTH REGIONAL HOSPITAL - HCA 333 BORTHWICK AVENUE PORTSMOUTH, NEW HAMPSHIRE TAX MAP 240 LOT 2-1 PREPARED FOR: BOWMAN LAND OF: HCA HEALTH SERVICES OF NH			
REL	DATE: 02/29/2024		
DRAWN BY	JOB NO: 24-2003		
RMF	SCALE: 1" = 60'		
PROJECT MGR	DWG NAME: 24-2003.DWG		
	PLAN NO: 24-2003.DWG		
	SHEET: 2 OF 3		



101 SHATTUCK WAY, SUITE 8, NEWINGTON, N.H., 03801 - 603-436-3557 - ©2024



240-01
 LIBERTY MUTUAL INSURANCE
 ATTN: JOANNE BRAGG
 175 BERKLEY STREET
 BOSTON, MA 02118
 BK. 2057 PG. 0357

SHEET 2
 SHEET 1

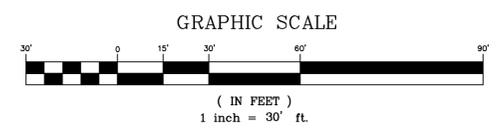
SHEET 2
 SHEET 3

NH STATE PLANE COORDINATE SYSTEM
 NAD 1983

SURVEYOR'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

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101 SHATTUCK WAY, SUITE 8, NEWINGTON, N.H., 03801 – 603-436-3557 – ©2024			SHEET: 3 OF 3

**PREVIOUS PERMIT
APPROVAL & PLAN**



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

WETLANDS AND NON-SITE SPECIFIC PERMIT 2024-00119 PAGE 1 OF 2

PERMITTEE: HCA HEALTH SERVICES OF NEW HAMPSHIRE
PO BOX 80610
INDIANAPOLIS IN 46580

NOTE CONDITIONS

PROJECT LOCATION: 333 BORTHWICK AVE, PORTSMOUTH TAX MAP 240 LOT 2-1

WATERBODY: UNNAMED WETLAND

APPROVAL DATE: JUNE 06, 2024

EXPIRATION DATE: JUNE 06, 2029

Based upon review of permit application 2024-00119 in accordance with RSA 482-A and RSA 485-A:17, the New Hampshire Department of Environmental Services (NHDES) hereby issues this Wetlands and Non-Site Specific Permit. To validate this Permit, signatures of the Permittee and the Principal Contractor are required.

PERMIT DESCRIPTION: Retain 200 square feet (SF) of dredge and fill to man-made palustrine emergent wetland to construct a building expansion for an existing hospital. Restore 2,918 SF of temporary impact to palustrine emergent wetland and 961 SF within the 100-foot duly designated prime wetland buffer of Portsmouth 015 for construction access.

Waive Env-Wt 306.05(a)(1) and Env-Wt 311.10 requiring applicant to provide a wetland delineation and functional assessment for all wetlands on the property.

THIS PERMIT IS SUBJECT TO THE FOLLOWING PROJECT-SPECIFIC CONDITIONS:

1. All work shall be done in accordance with the approved plans dated December 7, 2023 by Kimley-Horn and Associates, Inc., and received by the NH Department of Environmental Services (NHDES) on January 17, 2024, in accordance with Env-Wt 307.16 and Env-Wt 524.05(b).
2. All work shall be conducted and maintained in such a way as to protect water quality as required by Rule Env-Wt 307.03(a) through (h).
3. All temporary and permanent filling activities shall meet all of the conditions listed in Rule Env-Wt 307.11(a) through (l).
4. Restoration of all temporary impacts shall meet all of the conditions listed in Rule Env-Wt 307.12(a) through (j).
5. In accordance with Env-Wt 307.12(i), areas where permanent impacts are not authorized shall be restored to their pre-impact conditions and elevation by replacing the removed soil and vegetation in their pre-construction location and elevation such that post-construction soil layering and vegetation schemes are as close as practicable to pre-construction conditions.
6. In accordance with Env-Wt 307.12(f), if any temporary impact area that is stabilized with seeding or plantings does not have at least 75% successful establishment of wetlands vegetation after 2 growing seasons, the area shall be replanted or reseeded, as applicable.
7. In accordance with Env-Wt 307.18(c), a report that describes the monitoring conducted and date(s) of inspections, and includes photos showing the extent of jurisdictional impacts, areas of restoration, and progress of any plantings shall be submitted to the department.

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095

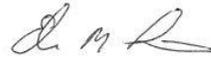
NHDES Main Line: (603) 271-3503 • Subsurface Fax: (603) 271-6683 • Wetlands Fax: (603) 271-6588

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

THIS PERMIT IS SUBJECT TO THE FOLLOWING GENERAL CONDITIONS:

1. Pursuant to RSA 482-A:12, a copy of this permit shall be posted in a secure manner in a prominent place at the site of the approved project.
2. In accordance with Env-Wt 313.01(a)(5), and as required by RSA 482-A:11, II, work shall not infringe on the property rights or unreasonably affect the value or enjoyment of property of abutting owners.
3. In accordance with Env-Wt 314.01, a standard permit shall be signed by the permittee, and the principal contractor who will build or install the project prior to start of construction, and will not be valid until signed.
4. In accordance with Env-Wt 314.03(a), the permittee shall notify the department in writing at least one week prior to commencing any work under this permit.
5. In accordance with Env-Wt 314.08(a), the permittee shall file a completed notice of completion of work and certificate of compliance with the department within 10 working days of completing the work authorized by this permit.
6. In accordance with Env-Wt 314.06, transfer of this permit to a new owner shall require notification to, and approval of, the NHDES.
7. The permit holder shall ensure that work is done in a way that protects water quality per Env-Wt 307.03; protects fisheries and breeding areas per Env-Wt 307.04; protects against invasive species per Env-Wt 307.05; meets dredging activity conditions in Env-Wt 307.10; and meets filling activity conditions in Env-Wt 307.11.
8. This project has been screened for potential impact to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or only cursory surveys have been performed, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species. This permit does not authorize in any way the take of threatened or endangered species, as defined by RSA 212-A:2, or of any protected species or exemplary natural communities, as defined in RSA 217-A:3.
9. In accordance with Env-Wt 307.06(a) through (c), no activity shall jeopardize the continued existence of a threatened or endangered species, a species proposed for listing as threatened or endangered, or a designated or proposed critical habitat under the Federal Endangered Species Act, 16 U.S.C. §1531 et seq.; State Endangered Species Conservation Act, RSA 212-A; or New Hampshire Native Plant Protection Act, RSA 217-A.
10. In accordance with Env-Wt 307.02, and in accordance with federal requirements, all work in areas under the jurisdiction of the U.S. Army Corps of Engineers (USACE) shall comply with all conditions of the applicable state general permit.

APPROVED:



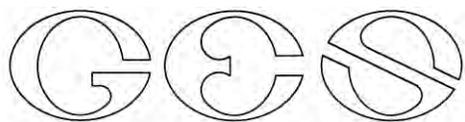
Eben M. Lewis
Southeast Region Supervisor, Wetlands Bureau
Land Resources Management, Water Division

THE SIGNATURES BELOW ARE REQUIRED TO VALIDATE THIS PERMIT (Env-Wt 314.01).

PERMITTEE SIGNATURE (required)

PRINCIPAL CONTRACTOR SIGNATURE (required)

PHOTOLOG OF IMPACT AREAS



GOVE ENVIRONMENTAL SERVICES, INC.

333 Borthwick Ave, Portsmouth, NH

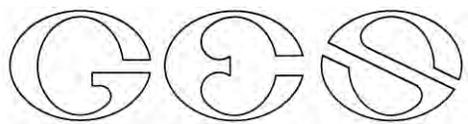
Photos taken 7/17/2024



Photo 1. Culvert entry looking east toward access road



Photo 2. Culvert entry from the west of access road



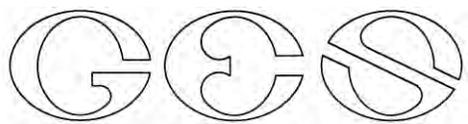
GOVE ENVIRONMENTAL SERVICES, INC.



Photo 3. Tier 1 stream following west



Photo 4. Maintained grass area between stream and paved road with parking looking west



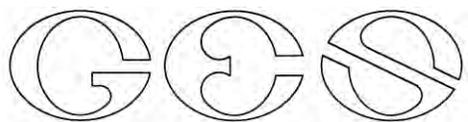
GOVE ENVIRONMENTAL SERVICES, INC.



Photo 5. 3 culvert entry to the east of access road



Photo 6. Maintained grass and paved street with parking to tier one stream looking east



GOVE ENVIRONMENTAL SERVICES, INC.

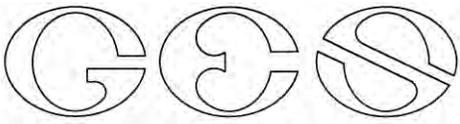


Photo 7. Outlet to scrub shrub/emergent wetland located east of tier one stream



Photo 8. Representative upland habitat located northwest of stream

FISH AND GAME COORDINATION PACKAGE



GOVE ENVIRONMENTAL SERVICES, INC.

July 12, 2024

NH Fish and Game Department
Attn. Wildlife Division, Nongame Program
11 Hazen Drive
Concord, N.H. 03301

**Re: Request for NHFG Fis 1004 Consultation
NHB24-2219
Portsmouth regional hospital oncology expansion
333 Borwick Ave
Portsmouth, NH**

Dear NHF&G Reviewer:

We are pleased to provide the following information and enclosed documents in support of a consultation under Fis1004 for a culvert replacement on the Portsmouth Regional Hospital property in Portsmouth, NH. Several figures depicting the location of the site and proposed work have been attached along with photographs of the site.

Fis 1004.03 Information Required for Consultation.

(a) In all cases where consultation is required, all information shall be provided to the department in electronic format at NHFGreview@wildlife.nh.gov , or in paper format at:

NH Fish and Game Department
Attn. Wildlife Division, Nongame Program
11 Hazen Drive
Concord, N.H. 03301

(b) In all communications, the NHB DataCheck tool results letter number shall be included in the email subject line and documents.

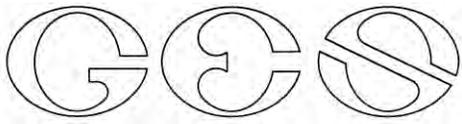
(c) The following information shall be provided to the department:

(1) A copy of the department of natural and cultural resources NHB DataCheck tool results letter, dated within one year of the date of the consultation request, and which includes the DataCheck tool results letter number;

NHB24-2219: Blandings Turtle, Marsh Wren, Sora

(2) The applicant's full name;

HCA Health Services of New Hampshire



GOVE ENVIRONMENTAL SERVICES, INC.

- (3) The applicant's mailing address;

PO box 80601, Indianapolis, IN, 46580

- (4) The applicant's telephone number and email address to be used for the purpose of contact;

Trip DeMoss, Trip.DeMoss@hcahealthcare.com, 615-344-1604

- (5) If the applicant is a corporation, firm, partnership, association, institution, or public or private agency, the name, mailing address, and email address of the person who will respond to requests for information on behalf of the applicant;

Brenden Walden Gove Environmental Services Inc.
bwalden@gesinc.biz
603-418-7260

- (6) The name, mailing address, and email address of any person acting as an agent of the applicant, or any consultant who will submit information to the department on behalf of the applicant;

Brenden Walden Gove Environmental Services Inc.
bwalden@gesinc.biz
603-418-7260

- (7) Description of the proposed action;

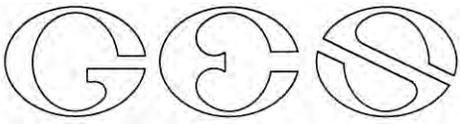
The proposed project is for a culvert replacement on the property that currently serves as an access to a gas utility station to the north of the property. The replacement of the three existing 24inch HDPE culverts to one single 25Lx10Wx3H box culvert will improve connectivity both for hydrology and aquatic organisms in the area.

- (8) Description of the project parcel by reference to street address and town, and, if available, a geographical information system defined project boundary;

The project site is located at 333 Borthwick ave, Portsmouth NH and is comprised of one lot totaling 20.87 acres. (Assessor's Map 240 Lot 21).

- (9) A listing of any state or federal permits which have been applied for, have been granted, or which will be necessary for the proposed action to proceed;

NH DES Wetlands Dredge and Fill Application (no file number yet)



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(10) The current condition of the action area prior to any proposed modifications, including a description of known or discernible actions within the preceding 24 months that have altered the site, including but not limited to, timber harvests, significant impact from storms, removal of gravel or stone, or addition or removal of structures;

A recent Dredge and Fill permit was issued for after the fact work in an identified detention basin. No other alterations have occurred on site in the past 2 years.

(11) Any habitat features supporting or that could support threatened and endangered species that have been identified; and

Blanding's Turtle (*Emydoidea blandingii*)

Found in wetland habitats with permanent shallow water and emergent vegetation such as marshes, swamps, bogs, and ponds. Use vernal pools extensively in spring and while traveling through the landscape. May use slow rivers and streams as mechanisms for dispersal between wetlands. Extensive use of terrestrial habitats for nesting and travel among wetlands.

Marsh Wren (*Cistothorus palustris*)

Marsh Wrens occupy wetlands filled with cattails, sedges, bulrushes, and Phragmites as well as cordgrass-filled saltmarshes year-round. In the winter they also use brushy thickets near wetlands, tidal saltmarshes, and weedy agricultural canals.

Sora (*Porzana carolina*)

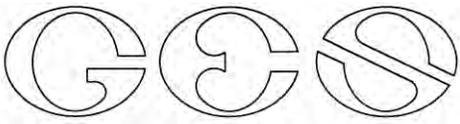
oras spend most of the year in freshwater and brackish wetlands with cattail, sedges, and rushes. During migration and winter, they also use wet pastures, ditches, impoundments, and flooded fields.

Areas suitable for all three species are present on the property however this is adjacent to a commercially developed area which may provide challenges to the species. Additionally, the culvert replacement will not have any long-term negative impacts to any of the identified species.

(12) A description of any conservation measures proposed by the applicant to avoid, minimize, or mitigate potential harm to threatened and endangered species and habitat determined to be critical, including but not limited to:

- a. Design modifications to proposed actions to protect species from harm.

The applicant has proposed a larger culvert size instead of a direct replacement to the existing structures.



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- b. Modifications to proposed actions such as alteration of the timing of proposed actions to protect species from harm;

No alterations in timing have been proposed beyond construction occurring during low flow conditions.

- c. Design crossing structures to maintain and enhance habitat quality and accommodate movement of species;

The overall design will enhance the opportunity of species movement from the current structure.

- d. Education and training for construction personnel as to what construction activities have the potential to cause adverse impacts to species;

No education or training specific to this project is proposed.

- e. Signage to identify specific locations where construction activities must avoid potential adverse impacts to species;

No signage is proposed at this time.

- f. Continued research and monitoring of identified species;

No monitoring is proposed for this project.

- g. Protection or restoration of wildlife corridors;

There are no specific protections or restoration activities with this project.

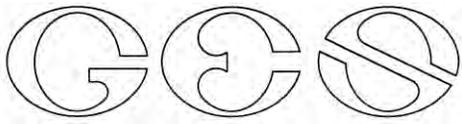
- h. Maintenance, enhancement, or protection of habitat buffer areas; and

Beyond the crossing replacement there are no additional maintenance, enhancement or protections for other habitat areas.

- i. Habitat protection, management, or restoration.

Beyond culvert replacement, there are no specific protections, management or restoration of jurisdictional areas on the property.

(d) An applicant seeking consultation to meet permit requirements under Env-Wt 311, Env-Wq 1406.06, or Env-Wq 1503.05, shall provide the following additional information to the department to initiate consultation:



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(1) A topographic map identifying the action area at a scale of 1:24,000 or closer, and which shows property lines and the limits of proposed disturbance;

See attached USGS.

(2) An aerial photograph identifying the current condition of the action area at a scale of 1:24,000 or closer and which shows property lines and the limits of proposed disturbance;

See attached aerial imagery.

(3) Site photographs with dates and a photograph location plan, showing existing conditions, habitat features, and possible locations of identified threatened and endangered species, if known;

See attached impact photos.

(4) Project site plan sheets showing the area of proposed disturbance and location of any proposed new or modified structures;

See attached plans in the Bowman package.

(5) Any reports created to assess the site, including but not limited to wetland assessments, vernal pool surveys, or other site visit observations; and

There are no reports beyond the functions and values included in the dredge and fill application.

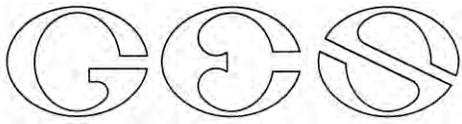
(6) Any other available information, from whatever source, that describe the potential impacts of the proposed action on listed species or habitat.

N/A

Fis 1004.04 Signatures and Certifications Required.

(a) Each document, or group of documents intended as a single submission, that is submitted to the department, including but not limited to applications, requests, and reports, shall:

(1) If submitted in paper format, be signed and dated by the applicant, owner or the agent of either, and show the typed or printed name and title, if applicable, of the individual who signed; or



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(2) If submitted in electronic format, be electronically signed and dated by the applicant, owner or the agent of either, and show the name and title, if applicable, of the individual who signed.

(b) Each physical or electronic signature required by (a), above, shall constitute certification by the signer that:

(1) The information contained in or otherwise submitted with the document is true, complete, and not misleading to the best of the signer's knowledge and belief; and

(2) The signer understands that the submission of false, incomplete, or misleading information shall constitute grounds, pursuant to Fis 1004.13, for the department to:

a. Suspend consultation pending submission of true, complete, and not misleading information;

b. Terminate consultation;

c. Withdraw any recommendations made to the referring state agency under this part; or

d. Report the suspension, termination, or withdrawal of recommendations, and the full circumstances of the submission, to the referring state agency for action in the pending or completed request for a permit or other action.

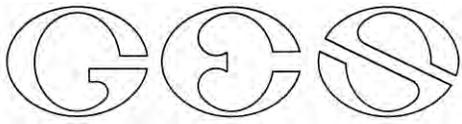
Signature: _____

Date: _____

Name: Brenden Walden NH CWS# 297

Company: Gove Environmental Services, Inc.

Title: President



GOVE ENVIRONMENTAL SERVICES, INC.

Appendices:

NHB
Aerial Photo
USGS Topo Map
WAP: Habitat Cover Map
WAP: Highest Ranked Wildlife Habitat
Map Wildlife Corridors Map
Wildlife Secondary Corridors Map
Prioritized Habitat Blocks
Conservation Parcels Map
Functions and Values Analysis
Photo Map
Photo Log
Plan Set Revision Date March 2024



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Brenden Walden, Gove Environmental Services, Inc.
8 Continental Drive Bldg 2 Unit H
Exeter, NH 03833
info@gesinc.biz

From: NHB Review
NH Natural Heritage Bureau
Main Contact: nhbreview@dncr.nh.gov

cc: NHFG Review

Date: 07/26/2024 (valid until 07/26/2025)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

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

NHB ID: NHB24-2219

Town: Portsmouth
Location: 333 Borthwick Avenue

Project Description: Culvert replacement on a tier one stream located in the rear of the property

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: No comments at this time.

NHFG Comments: Please refer to NHFG consultation requirements below.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.

NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project.
Please see the map and detailed information about the record(s) on the following pages.

Vertebrate species	State ¹	Federal	Notes
Blanding's Turtle (<i>Emydoidea blandingii</i>)	E	--	Contact the NH Fish & Game Dept (see below).
Marsh Wren (<i>Cistothorus palustris</i>)	--	--	Contact the NH Fish & Game Dept (see above).
Sora (<i>Porzana carolina</i>)	SC	--	Contact the NH Fish & Game Dept (see above).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section above.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species.
NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219

EOCODE:

ARAAD04010*632*NH

New Hampshire Natural Heritage Bureau - Animal Record

Blanding's Turtle (*Emydoidea blandingii*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2011: Area 12906: 1 adult observed.

General Area: 2011: Area 12906: Marsh along railroad tracks.

General Comments: --

Management --

Comments:

Location

Survey Site Name: Meadowbrook
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 1.9 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2011: Area 12906: Marsh adjacent to 333 Borthwick Avenue, behind Portsmouth Regional Hospital.

Dates documented

First reported: 2011-05-07

Last reported: 2011-05-07

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219

EOCODE:

ABPBG10020*019*NH

New Hampshire Natural Heritage Bureau - Animal Record

Marsh Wren (*Cistothorus palustris*)

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Not ranked (need more information)

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2020: 8 observed between 5/2 and 8/17. 2019: 3 observed between 5/12 and 6/30. Includes marsh area on north side of railroad tracks. 2016: 2 observed between 5/8 and 7/23. 2013: 3 observed between 5/18 and 5/26. 2012: Species observed on 5/18 and 5/19. 2011: Species observed on 5/21. 2010: 1 observed between 5/17 and 5/22. 2009: 3 observed on 6/20. 2006: Species observed on 5/25. 1997: 2 observed on 6/22.

General Area: --

General Comments: 2020: Includes data from NH Audubon sites "Portsmouth City Park" and "Borthwick Ave. Marsh".

Management: --

Comments:

Location

Survey Site Name: Portsmouth Hospital Marsh
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 33.6 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: --

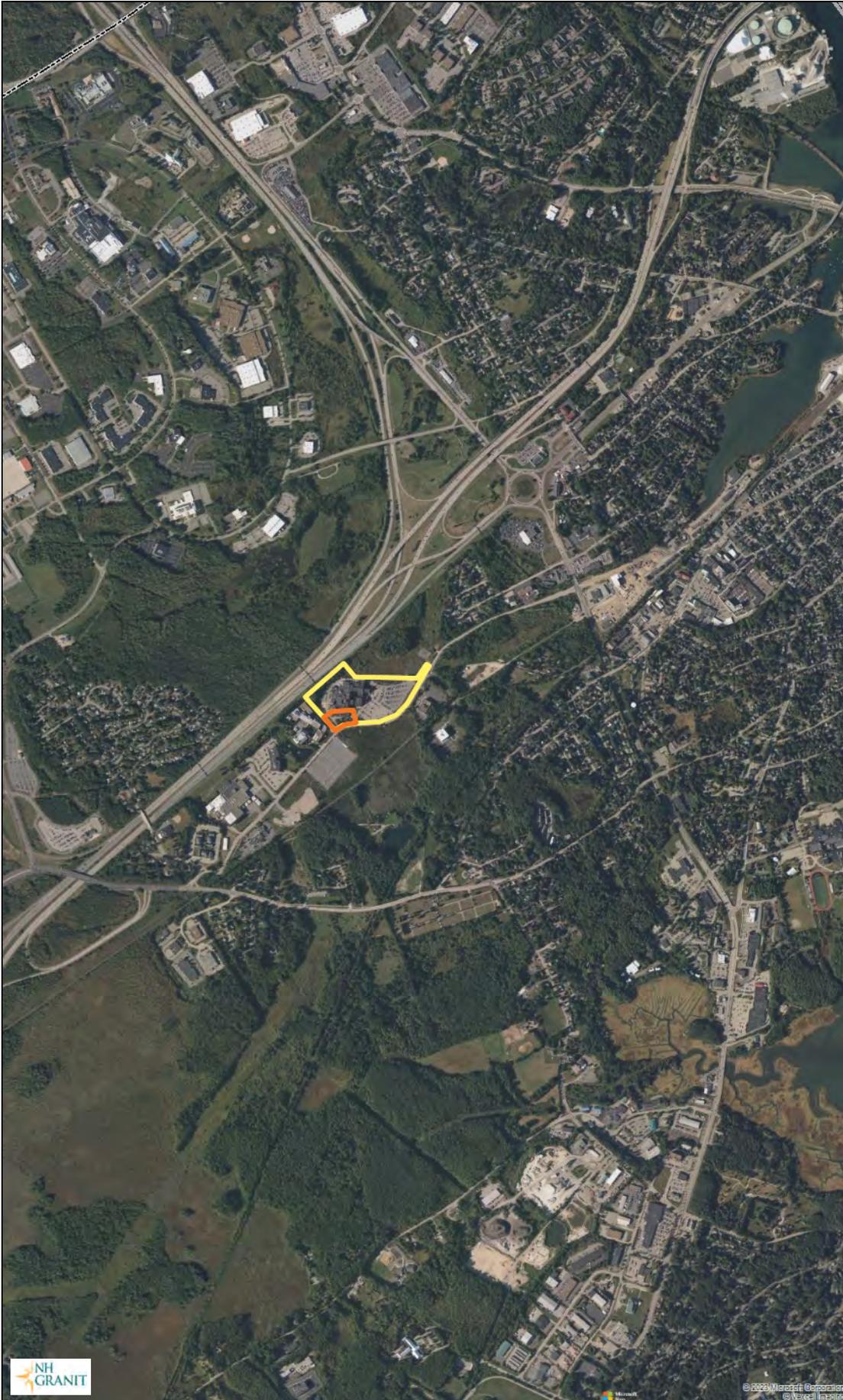
Dates documented

First reported: 1997-06-22

Last reported: 2020-08-17

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

Aerial



Legend

- State
- County
- City/Town

Map Scale

1: 24,000

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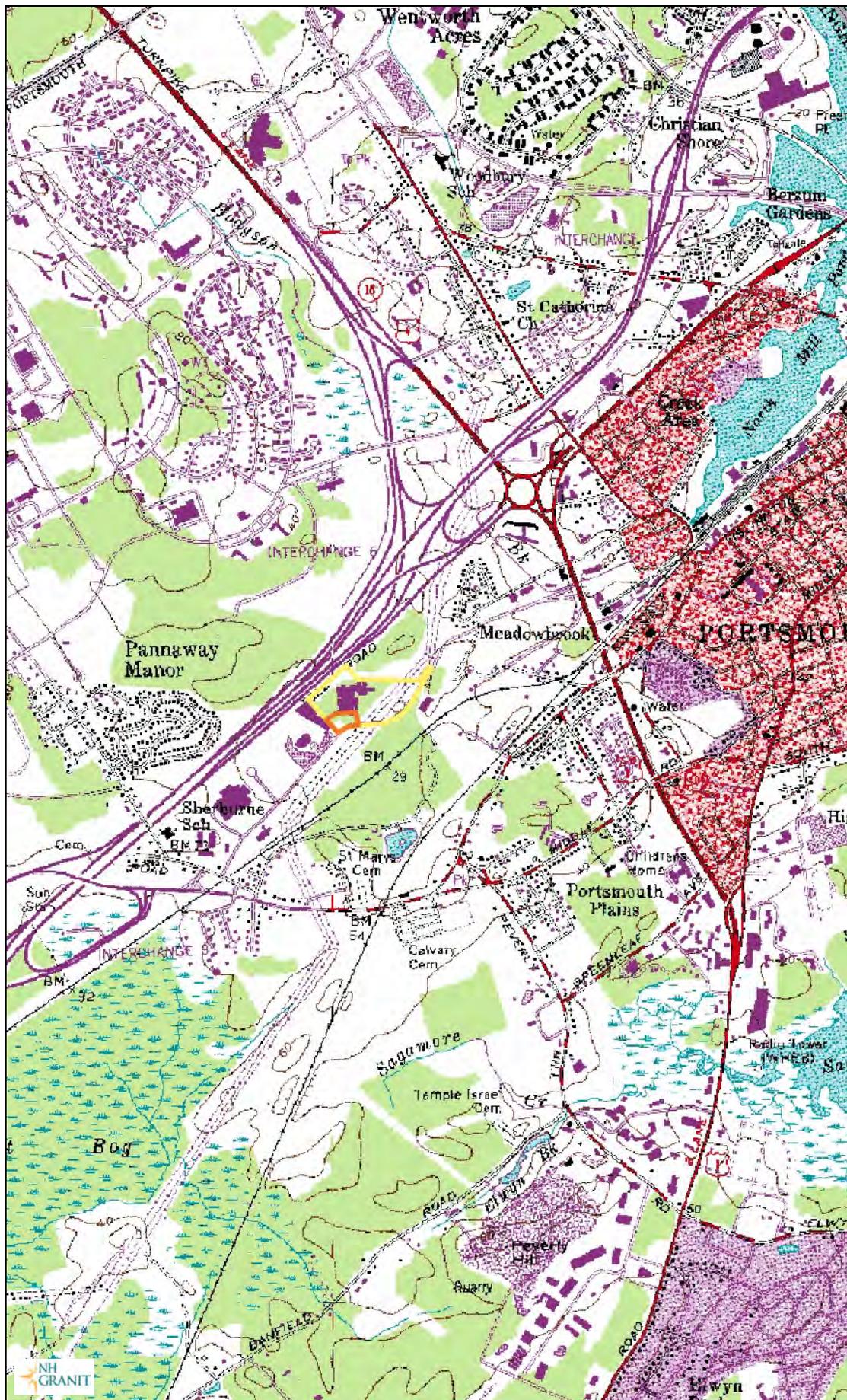
Map Generated: 1/10/2024



Notes



USGS



Legend

- State
- County
- City/Town

Map Scale

1: 24,000

© NH GRANIT, www.granit.unh.edu

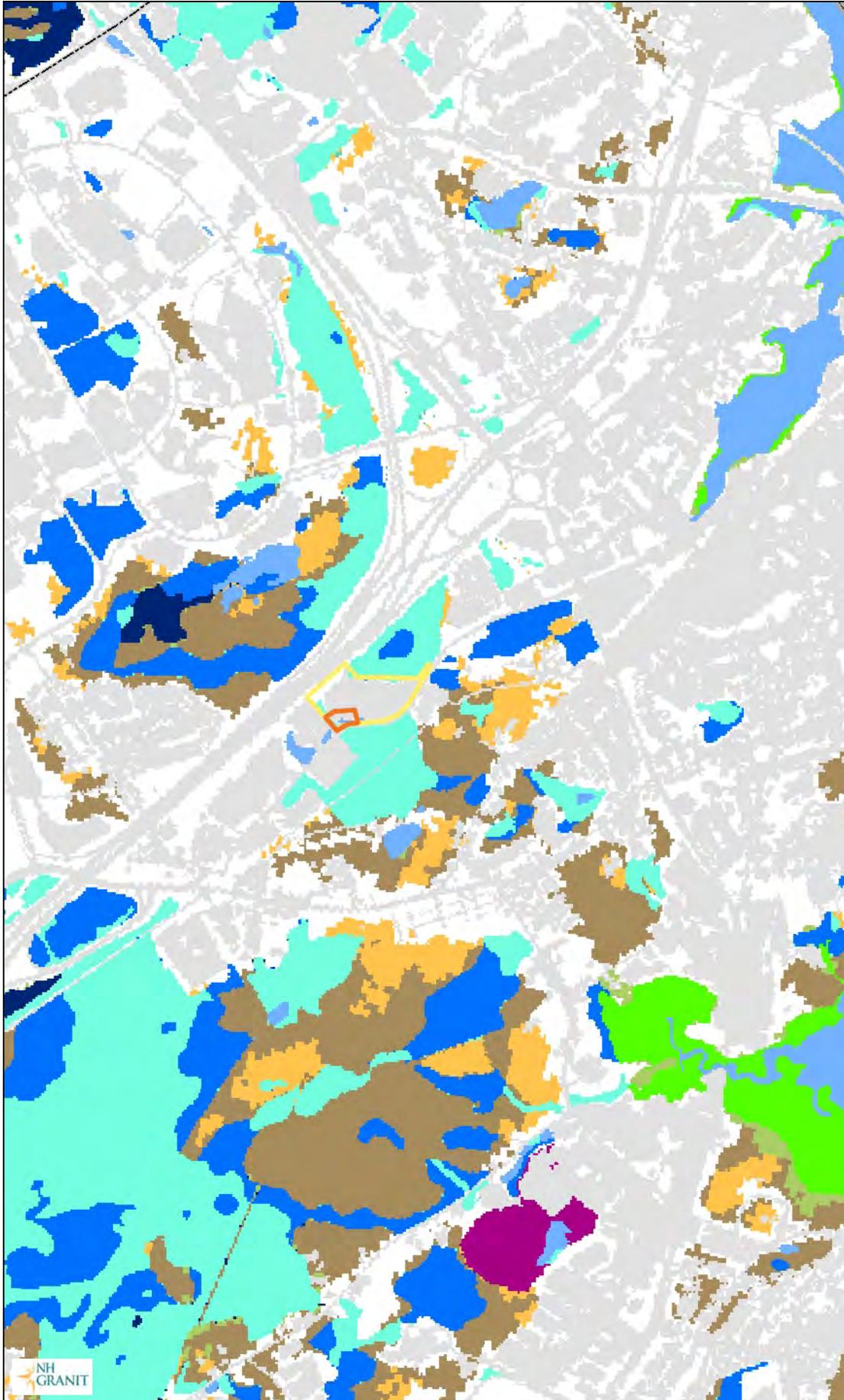
Map Generated: 1/10/2024



Notes



Habitat Cover



Legend

- State
- County
- City/Town
- WAP 2020: Wildlife Habitat I Cover
- Alpine
- Appalachian oak-pine
- Cliff and Talus slope
- Coastal island and Rocky coast
- Developed Impervious
- Developed or Barren land
- Dune
- Floodplain forest
- Grassland
- Hemlock-hardwood-pine
- High-elevation spruce-fir
- Lowland spruce-fir
- Northern hardwood-conifer
- Northern swamp
- Open water
- Peatland
- Pine barren
- Rocky ridge
- Salt marsh
- Sand/Gravel
- Temperate swamp
- Marsh and shrub wetland

Map Scale

1: 24,000



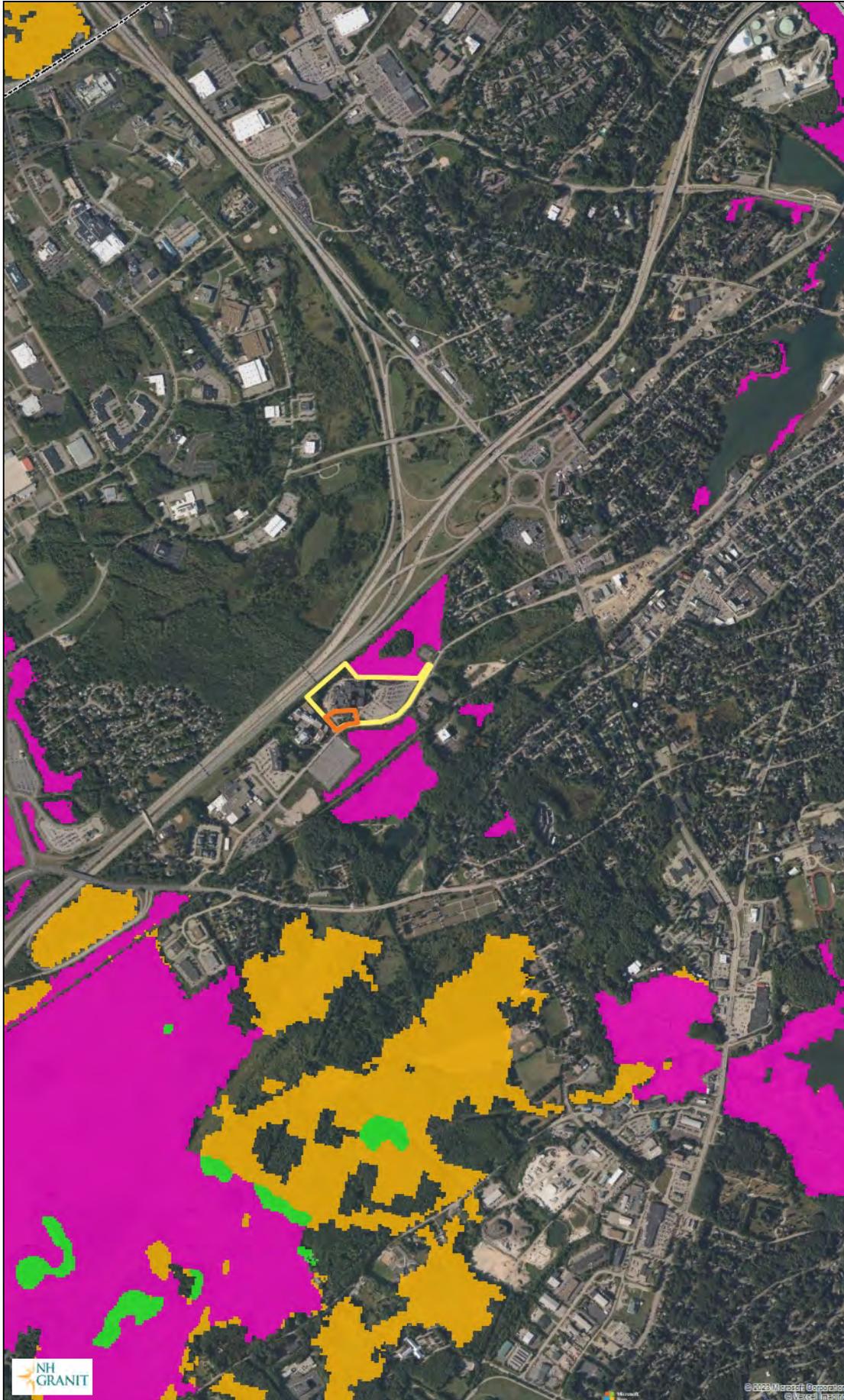
© NH GRANIT, www.granit.unh.edu

Map Generated: 1/10/2024

Notes



Highest Ranked Habitat



Legend

- State
- County
- City/Town
- WAP 2020: Highest Ranked Wildlife Habitat
 - 1 Highest Ranked Habitat in NH
 - 2 Highest Ranked Habitat in Region
 - 3 Supporting Landscape

Map Scale

1: 24,000

© NH GRANIT, www.granit.unh.edu

Map Generated: 1/10/2024



Notes



Wildlife Corridors



Legend

- Wildlife Corridors
- State
- County
- City/Town

Map Scale

1: 24,000

© NH GRANIT, www.granit.unh.edu

Map Generated: 1/10/2024



Notes



Secondary Wildlife Corridors



Legend

- Wildlife Secondary Corridors
- State
- County
- City/Town

Map Scale

1: 24,000

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Map Generated: 1/10/2024



Notes



Prioritized Habitat Blocks



Legend

- Prioritized Habitat Blocks
- State
- County
- City/Town

Map Scale

1: 24,000

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Map Generated: 1/10/2024



Notes



Conservation Land



Legend

- State
- County
- City/Town
- Conservation and Public Land

Map Scale

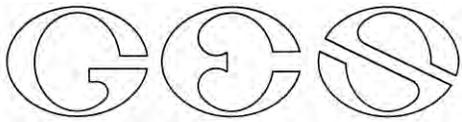
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Map Generated: 1/10/2024



Notes





Date: September 25, 2024

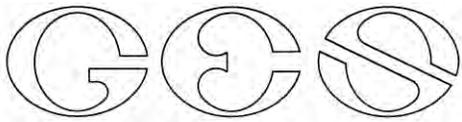
Subject: Functions and Values Analysis

Re: Minor Dredge and Fill Application
333 Borthwick Ave, Portsmouth

The subject property located on 333 Borthwick Ave, in Portsmouth, NH, identified by Tax map 240 Lot 2-1. The proposed project is for the replacement of an existing tier 1 stream crossing currently utilized as a utility access for a natural gas station on the north of the property. The project area was reviewed and field delineated by Brenden Walden, a NH CWS, in the fall of 2019 with additional flagging to encompass the project area done during February of 2024. During the wetland delineation of the property, two wetlands were identified within the scope of the project area. These wetlands area identified and discussed below as Wetland A & B. A wetland function and value assessment was conducted using the US Army Corps Highway Methodology for the three wetlands identified and will be discussed in more detail below.

The US Army Corps Highway Methodology considers 13 categories of function or value within a particular wetland area:

- 1. Groundwater recharge/discharge:** This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area. Recharge should relate to the potential for the wetland to contribute water to an aquifer. Discharge should relate to the potential for the wetland to serve as an area where ground water can be discharged to the surface.
- 2. Floodflow Alteration:** This function considers the effectiveness of the wetland in reducing flood damage by attenuation of floodwaters for prolonged periods following precipitation events.
- 3. Fish and Shellfish Habitat:** This function considers the effectiveness of seasonal or permanent water bodies associated with the wetland in question for fish and shell fish habitat.
- 4. Water Quality—Sediment/Toxicant/Pathogen Retention:** This function reduces or prevents degradation of water quality. It relates to the effectiveness of the wetland as a trap for sediments, toxicants or pathogens.
- 5. Water Quality—Nutrient Removal/Retention/Transformation:** This function relates to the effectiveness of the wetland to prevent adverse effects of excess nutrients entering aquifers or surface waters such as ponds, lakes, streams, rivers or estuaries.
- 6. Production Export:** This function relates to the effectiveness of the wetland to produce food or usable products for human, or other living organisms.
- 7. Sediment/Shoreline Stabilization:** This function relates to the effectiveness of a wetland to stabilize stream banks and shorelines against erosion.
- 8. Wildlife Habitat:** This function considers the effectiveness of the wetland to provide habitat for various types and populations of animals typically associated with wetlands and the wetland edge. Both resident and or migrating species must be considered.
- 9. Recreation:** This value considers the effectiveness of the wetland and associated watercourses to provide recreational opportunities such as canoeing, boating, fishing, hunting and other active or passive recreational activities. Consumptive opportunities consume or



diminish the plants, animals or other resources that are intrinsic to the wetland, whereas non-consumptive opportunities do not.

- 10. Educational/Scientific Value:** This value considers the effectiveness of the wetland as a site for an “outdoor classroom” or as a location for scientific study or research.
- 11. Uniqueness/Heritage:** This value relates to the effectiveness of the wetland or its associated water bodies to produce certain special values. Special values may include such things as archeological sites, unusual aesthetic quality, historical events, or unique plants, animals, or geological features.
- 12. Visual Quality/Aesthetics:** This value relates to the visual and aesthetic qualities of the wetland.
- 13. Threatened or Endangered Species Habitat:** This value relates to the effectiveness of the wetland or associated water bodies to support threatened or endangered species

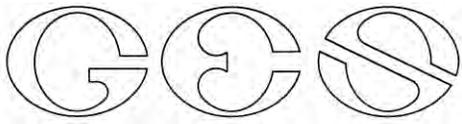
Functions are self-sustaining properties of wetlands, which exist in the absence of human involvement. Values refers to the benefits gained by human society from a given wetland or ecosystem and their inherit functions. Functions and values identified as “Principal” have been determined to be significant features of the wetland being evaluated. This does not necessarily indicate the wetland supports these functions or values at a significant level in comparison to other wetlands in the region or even near the site. A discussion of the evaluated areas and the associated functions and values is provided in the sections below.

Wetland A:

Wetland A is a man-made wetland system designed to direct stormwater around the hospital ground with hydrologic connections to adjacent wetlands through existing culverts. The wetland is dominantly vegetated with Phragmites, with some shrubs and trees existing along the boundary of the wetland. Areas of open water with unknown depth are present, and there is identified flow occurring near the norther outlet structure. Functions and values associated with this wetland identified with this wetland include, Groundwater Recharge/Discharge, Floodlfow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, Sediment and Shorleline Stabilization, and Wildlife Habitat. These functions are attributed to the nature of the wetland’s development, existing dense vegetation, association with a watercourse and hydrologic connectivity up and down stream. The proposed impacts to this wetland for the replacement and improvement of the existing culvert from three 24-inch HDPE culverts to one single 10 x 3 box culvert will have no observable impact to the identified functions and values. Additionally, this wetland will have increase connectivity and passage for aquatic organisms.

Wetland B:

Wetland B is the down stream more natural wetland system that extends off site. This wetland is composed of areas of emergent vegetation adjacent to the existing parking area with dense scrub shrub vegetation adjacent to the existing watercourse. Functions and values associated with this wetland identified with this wetland include, Groundwater Recharge/Discharge, Floodlfow Alteration, Sediment and Toxicant Retention, Nutrient Removal, Production Export, Sediment and Shorleline Stabilization, and Wildlife Habitat. These functions are attributed to the nature of the existing dense vegetation, association with a watercourse and hydrologic connectivity up and down stream. The proposed impacts to this wetland for the replacement and improvement of the existing culvert from three 24-inch HDPE culverts to one single 10 x 3 box culvert will have no observable impact to the identified functions and values. Additionally, this wetland will have increase connectivity and passage for aquatic organisms.



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Overall, the applicant has limited all wetland impacts to the greatest extent practicable and designed the project to be the least impacting alternative. The replacement of an existing structure will provide an overall net benefit to the existing functions and values that exist within the two wetland systems.

This concludes the functions and values analysis for the Minor Dredge and Fill Application for 333 Borthwick Ave, Portsmouth. If you have any other questions or believe I can assist you and any other way please feel free to contact me either by email: bwalden@gesinc.biz or by phone: 207- 710-7863.

Sincerely

Brenden Walden

President & Wetland Scientist
Gove Environmental Services, Inc



A

B

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no
 Adjacent land use Commercial development and roadway Distance to nearest roadway or other development >50ft
 Dominant wetland systems present R2UBFx Contiguous undeveloped buffer zone present no
 Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower
 How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. A
 Latitude _____ Longitude _____
 Prepared by: BMW Date 12/7/23
 Wetland Impact:
 Type N/a Area N/a
 Evaluation based on:
 Office X Field X
 Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,7,9,15	y	wetland associated with a stream, has high density of vegetation, shows varying levels of water depth
 Floodflow Alteration	Y	3,4,5,6,7,8,9,10,11,12,13,15,16,18	y	Wetland associated with a watercourse hydrologically connected to upstream and down stream wetlands.
 Fish and Shellfish Habitat	n	hydroperiod unknown	n	Level of permanent water depth is unknown
 Sediment/Toxicant Retention	Y	1,2,3,4,5,6	y	Slow moving water with high density of vegetation
 Nutrient Removal	Y	3,4,5,6,7,8,9,10,11	y	dense vegetation for nutrient acquisition
 Production Export	Y	1,2,5,7,10,11,	y	associated with a watercourse with potential for flushing
 Sediment/Shoreline Stabilization	Y	1,2,3,4,12,13,15	y	bank of water course is effectively stable from existing vegetation
 Wildlife Habitat	Y	7,8,13,17,18,19,20,21	Y	man influenced wetland with associated water course and dense vegetation
 Recreation	n	10,11	n	private property
 Educational/Scientific Value	n	11,13,14	n	private property
 Uniqueness/Heritage	n	1,10,11,17,	n	private property
 Visual Quality/Aesthetics	n	6,9,12	n	private property
ES Endangered Species Habitat		See NHB		
Other				

Notes: * Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? yes Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use Commercial development and roadway Distance to nearest roadway or other development >50ft

Dominant wetland systems present PSS1/EM1C Contiguous undeveloped buffer zone present no

Is the wetland a separate hydraulic system? no If not, where does the wetland lie in the drainage basin? lower

How many tributaries contribute to the wetland? unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. B

Latitude _____ Longitude _____

Prepared by: BMW Date 12/7/23

Wetland Impact:
Type: Fill Area 200SF

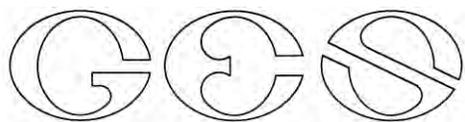
Evaluation based on:
Office X Field X

Corps manual wetland delineation completed? Y X N _____

Function/Value	Suitability Y / N	Rationale (Reference #)*	Principal Function(s)/Value(s)	Comments
 Groundwater Recharge/Discharge	Y	1,2,4,6,7,9,15	y	wetland associated with a stream, has high density of vegetation, shows varying levels of water depth
 Floodflow Alteration	Y	3,4,5,6,7,8,9,10,11,12,13,15,16,18	y	Wetland associated with a watercourse hydrologically connected to upstream and down stream wetlands.
 Fish and Shellfish Habitat	n	hydroperiod unknown	n	Level of permanent water depth is unknown
 Sediment/Toxicant Retention	Y	1,2,3,4,5,6	y	Slow moving water with high density of vegetation
 Nutrient Removal	Y	3,4,5,6,7,8,9,10,11	y	dense vegetation for nutrient acquisition
 Production Export	Y	1,2,5,7,10,11,	y	associated with a watercourse with potential for flushing
 Sediment/Shoreline Stabilization	Y	1,2,3,4,12,13,15	y	bank of water course is effectively stable from existing vegetation
 Wildlife Habitat	Y	7,8,13,17,18,19,20,21	Y	Large wetland with associated water course and dense vegetation
 Recreation	n	10,11	n	private property
 Educational/Scientific Value	n	11,13,14	n	private property
 Uniqueness/Heritage	n	1,10,11,17,	n	private property
 Visual Quality/Aesthetics	n	6,9,12	n	private property
ES Endangered Species Habitat		See NHB		
Other				

Notes:

* Refer to backup list of numbered considerations.



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333 Borthwick Ave, Portsmouth, NH

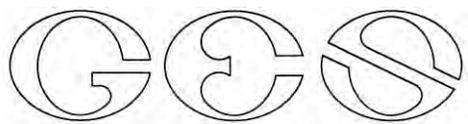
Photos taken 7/17/2024



Photo 1. Culvert entry looking east toward access road



Photo 2. Culvert entry from the west of access road



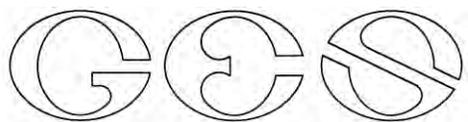
GOVE ENVIRONMENTAL SERVICES, INC.



Photo 3. Tier 1 stream following west



Photo 4. Maintained grass area between stream and paved road with parking looking west



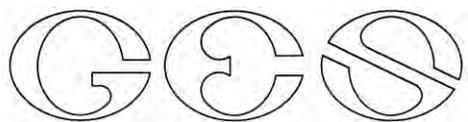
GOVE ENVIRONMENTAL SERVICES, INC.



Photo 5. 3 culvert entry to the east of access road



Photo 6. Maintained grass and paved street with parking to tier one stream looking east



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Photo 7. Outlet to scrub shrub/emergent wetland located east of tier one stream



Photo 8. Representative upland habitat located northwest of stream

GRADING AND DRAINAGE PLANS FOR HCA PORTSMOUTH REGIONAL HOSPITAL CULVERT REPLACEMENT - UTILITY ACCESS DRIVE

333 BORTHWICK AVE, PORTSMOUTH, NH 03801

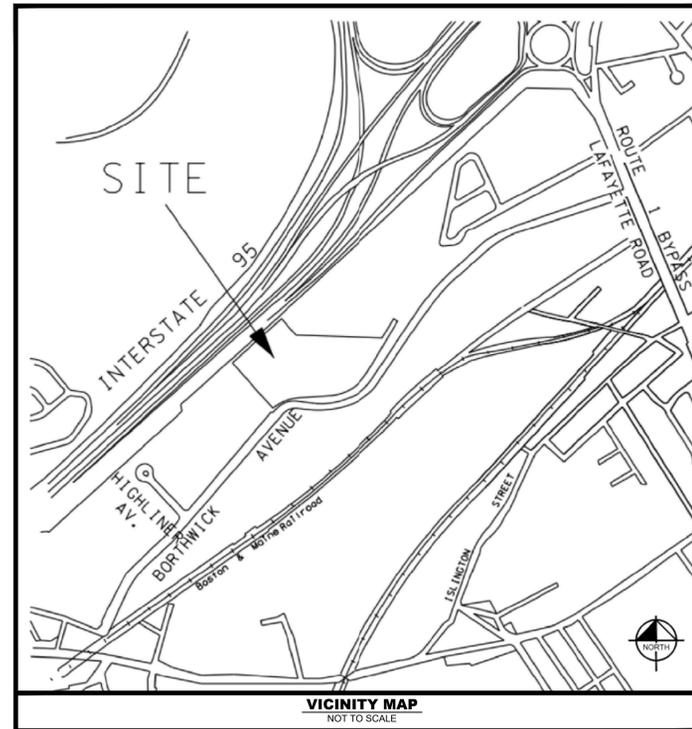
SUBMITTAL SET: JUNE 4, 2024

SITE DATA TABLE

OWNER OF RECORD	HCA HEALTH SERVICES OF NH INC D/B/A PRH 32902
SITE ADDRESS	333 BORTHWICK AVE, PORTSMOUTH, NH 03801
TAX MAP & LOT	TAX MAP 240, LOT 2-1
ZONING	OR - OFFICE RESEARCH
LAND USE	HOSPITAL
PROPERTY AREA	± 20.87 AC

PROJECT PURPOSE

AT THE REQUEST OF THE CITY OF PORTSMOUTH, NH - THIS PROJECT INTENDS TO RE-GRADE A HISTORIC MANMADE SWALE TO THE ORIGINAL 1988 DRAINAGE DESIGN BY KIMBALL CHASE, THAT ULTIMATELY CONVEYS PUBLIC STORMWATER RUNOFF FROM SOUTH OF BORTHWICK AVENUE TO NORTH OF INTERSTATE 95 IN PORTSMOUTH, NEW HAMPSHIRE. THE SUBJECT HISTORIC MANMADE SWALE HAS NOW BEEN MAPPED AS STATE WETLANDS. HCA HEALTH SERVICES OF NH INC D/B/A PRH (PROPERTY OWNER) PROPOSED TO REGRADE PORTIONS OF THE WETLAND THAT LIE ON THEIR PROPERTY ONLY. PROPOSED PROJECT SCOPE CONSISTS OF BY-PASS STORMWATER PUMPING, RE-GRADING, LOWERING STORMWATER CULVERTS, AND RE-STABILIZING WITH NEW ENGLAND WETLAND SEED MIX.



VICINITY MAP
NOT TO SCALE
CITY OF PORTSMOUTH
ROCKINGHAM COUNTY, NEW HAMPSHIRE

PROJECT DESIGN TEAM

CIVIL ENGINEER
BOWMAN CONSULTING
205 VAN BUREN STREET, STE 126
NASHVILLE, TN 37208
CONTACT: MATTHEW HAMBY
PHONE: 615-649-7622
EMAIL: MHAMBY@BOWMAN.COM

SURVEY
JAMES VERRA & ASSOCIATES, INC.
101 SHATTUCK WAY, SUITE 8
NEWINGTON, NH 03801
PHONE: (603) 436-3557
CONTACT: JIM VERRA, LLS

ENVIRONMENTAL
GOVE ENVIRONMENTAL SERVICES, INC
8 CONTINENTAL DR, UNIT H
EXETER, NH 03833
PHONE: (603) 778-0654
CONTACT: BRENDEN WALDEN

Sheet List Table

Sheet Number	Sheet Title
C0-00	COVER SHEET
C0-01	GENERAL NOTES
C1-00	SITE SURVEY - BY OTHERS
C2-00	CULVERT REPLACEMENT - PLAN & PROFILE
C3-00	EROSION CONTROL PLAN
C3-01	EROSION CONTROL DETAILS



PORTSMOUTH REGIONAL HOSPITAL
HCA HEALTHCARE
PORTSMOUTH, NH

PLAN STATUS		
DATE	DESCRIPTION	
DESIGN	DRAWN	CHKD

MARCH 2024

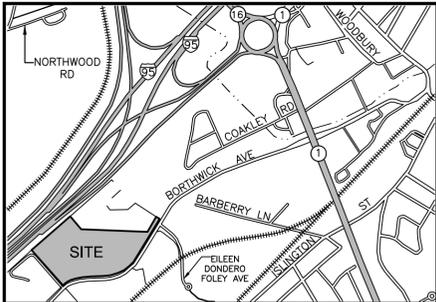
COVER SHEET

C0-00



Know what's below.
Call before you dig.

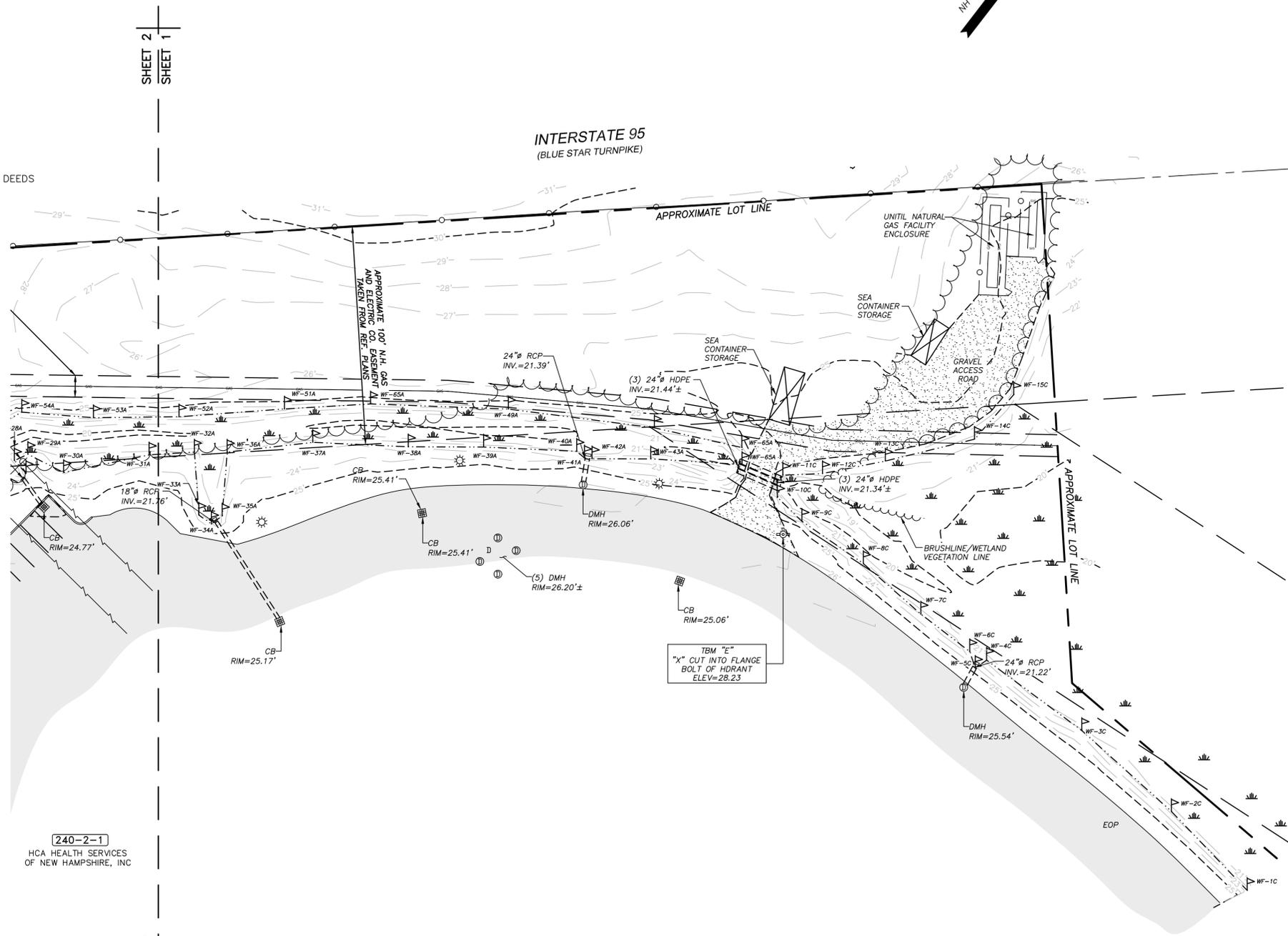
THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHOM IT WAS PREPARED. REVIEW OF AND DEPENDENCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY BOWMAN CONSULTING SHALL BE WITHOUT LIABILITY TO BOWMAN CONSULTING.



LOCUS (N.T.S.)

LEGEND:

- CHAIN LINK FENCE
- ⊙ UTILITY POLE
- ⊙ UTILITY POLE W/TRANSFORMER
- GUY
- ⊙ LIGHT POLE
- OVERHEAD WIRES
- UGU UNDERGROUND UTILITIES
- RCRD ROCKINGHAM COUNTY REGISTRY OF DEEDS
- 240-02-01 TAX SHEET / LOT NO.
- EOP EDGE OF PAVEMENT
- LA LANDSCAPED AREA
- VGC VERTICAL FACED GRANITE CURB
- SGC SLOPED FACED GRANITE CURB
- PSNH PUBLIC SERVICE CO. OF NH
- ♿ HANDICAP PARKING SPACE
- ⊕ CATCH BASIN (SQUARE)
- ⊕ CATCH BASIN (ROUND)
- ⊕ DRAIN MANHOLE
- ⊕ SEWER MANHOLE
- SIGN
- DOUBLE POST SIGN
- ⊕ ELECTRIC METER
- ⊕ GAS VALVE
- W WATER LINE
- S SEWER LINE
- D DRAIN LINE
- G GAS LINE
- ☀ CONIFEROUS TREE
- ☀ DECIDUOUS TREE
- TREE LINE
- ⊕ WATER GATE VALVE
- ⊕ WATER SHUT OFF VALVE
- ⊕ HYDRANT
- ⊕ FIRE CONNECTION
- ⊕ RIP RAP
- ⊕ CEMENT CONCRETE PAD
- ⊕ CONCRETE RETAINING WALL
- ⊕ LANDSCAPE/LAWN AREA
- (15) PARKING SPACE COUNT



NOTES:

1. OWNER OF RECORD: HCA HEALTH SVC OF NH INC D/B/A PRH 32902
C/O DUCHARME MCMILLEN & ASSOCIATES
ADDRESS: PO BOX 80610, INDIANAPOLIS, IN 46280
DEED REFERENCE: BK:2784 PG:1340
TAX SHEET: 240-02-01
2. ZONED: OFFICE RESEARCH (OR)
MIN. LOT AREA: 3 ACRES FRONT YARD SETBACK: 50'
FRONTAGE: 300' SIDE YARD SETBACK: 75'
BUILDING COVERAGE: 30% REAR YARD SETBACK: 50'
STRUCTURE HEIGHT: 60'
3. THE INTENT OF THIS PLAN IS TO SHOW THE LIMITED AS-BUILT CONDITIONS OF THE BUILDING ADDITION AND RECONFIGURED DETENTION BASIN. THE BOUNDARY INFORMATION SHOWN IS APPROXIMATE AND TAKEN FROM THE REFERENCE PLANS AND DOES NOT CONSTITUTE AN UPDATED BOUNDARY SURVEY BY THIS OFFICE.
4. THE LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED UPON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES (IE CATCH BASINS, MANHOLES, WATER GATES ETC.) AND INFORMATION COMPILED FROM PLANS OF RECORD, AND PLANS PROVIDED BY UTILITY COMPANIES AND GOVERNMENTAL AGENCIES. ALL CONTRACTORS SHOULD NOTIFY, IN WRITING, SAID AGENCIES PRIOR TO ANY EXCAVATION WORK AND CALL DIG-SAFE @ 1-888-DIG-SAFE.
5. HORIZONTAL DATUM: NAD 1983 ESTABLISHED BY SURVEY GRADE GPS OBSERVATION AND NGS "OPUS" SOLUTION. REFERENCE FRAME: NAD83 (2011)(EPOCH: 2010.0000), US SURVEY FOOT.
VERTICAL DATUM: NAVD 1988. PRIMARY BENCHMARK: CITY OF PORTSMOUTH "ALBA"
6. THE PLAN IS BASED UPON A FIELD SURVEY COMPLETED IN JANUARY OF 2024 WITH TRIMBLE S5 ROBOTIC TOTAL STATION, CARLSON BRX7 RTK GPS UNITS, PANASONIC FZ-M1/TRIMBLE TSC7 DATA COLLECTORS.
7. THE PARCEL SHOWN HEREON LIES WITHIN ZONE X (AREA OF MINIMAL FLOOD HAZARD) AS IDENTIFIED ON FLOOD INSURANCE RATE MAP, ROCKINGHAM COUNTY, NEW HAMPSHIRE, MAP NUMBER 33015C0260E, EFFECTIVE DATE MAY 17, 2005 BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
8. THE DELINEATION OF THE WETLANDS SHOWN HEREON WAS BY BRENDEN WALDEN NEW HAMPSHIRE CERTIFIED WETLAND SCIENTIST #297, GOVE ENVIRONMENTAL SERVICES, LLC., 8 CONTINENTAL DRIVE, UNIT H, EXETER, NH 03833.
9. CONTRACTOR TO VERIFY SITE BENCHMARKS BY LEVELING BETWEEN 2 BENCHMARKS PRIOR TO THE ESTABLISHMENT OF ANY GRADES OR ELEVATIONS. DISCREPANCIES ARE TO BE REPORTED TO JAMES VERRA AND ASSOCIATES, INC.

REFERENCE PLANS:

1. GAS LINE AS-BUILT EASEMENT AND CONSERVATION PLAN, PREPARED FOR HOSPITAL CORPORATION OF AMERICA, PORTSMOUTH, NH, DATED 10/31/85. RCRD PLAN #D-15830.
2. SCHILLER S/S-OCEAN ROAD S/S, 115 KV TRANSMISSION LINE #U181, MILE 4, PLAN-6775-A, DATED 7/10/2009, BY NORTHEAST UTILITIES, NOT RECORDED.
3. SUBDIVISION OF LAND, FRANETAL REALTY TRUST COMPANY, OPTIONED TO LIBERTY MUTUAL INSURANCE COMPANY, PORTSMOUTH, NEW HAMPSHIRE, REVISED TO 2/19/71 RCRD PLAN #2190.
4. LIMITED EXISTING CONDITIONS PLAN - 333 BORTHWICK AVENUE, PORTSMOUTH, NEW HAMPSHIRE - ASSESSORS PARCEL #240-002-001 FOR HCA HEALTH SERVICES OF NEW HAMPSHIRE ON NOVEMBER 19, 2019 BY THIS OFFICE. NOT RECORDED
4. LIMITED AS-BUILT PLAN - PORTSMOUTH REGIONAL HOSPITAL - HCA, 333 BORTHWICK AVENUE, PORTSMOUTH, NEW HAMPSHIRE, TAX MAP 240, LOT 2-1, PREPARED FOR: DPR CONSTRUCTION, LAND OF: HCA HEALTH SERVICES OF NH ON FEBRUARY 29, 2024 BY THIS OFFICE. NOT RECORDED

DIRECT ABUTTERS TO SUBJECT PARCEL:

240-01 LIBERTY MUTUAL INSURANCE ATTN: JOANNE BRAGG 175 BERKLEY STREET BOSTON, MA 02116 BK: 2057 PG: 0357	240-2-2 JACKSON GRAY CONDOS MASTER CARD 330 BORTHWICK AVE PORTSMOUTH, NH 03801 BK: 2648 PG: 0901	234-7-3 CITY OF PORTSMOUTH 1 JUNKINS AVENUE PORTSMOUTH, NH 03801 BK: 4211 PG: 1155
240-2-2001 CITY OF PORTSMOUTH DPW PO BOX 628 PORTSMOUTH, NH 03802 BK: 2648 PG: 0901	240-2-1001 CITY OF PORTSMOUTH DPW PO BOX 628 PORTSMOUTH, NH 03802 BK: 2648 PG: 0902	

REV. NO.	DATE	DESCRIPTION	APPR'D
LIMITED EXISTING CONDITIONS PLAN PORTSMOUTH REGIONAL HOSPITAL - HCA 333 BORTHWICK AVENUE PORTSMOUTH, NEW HAMPSHIRE TAX MAP 240 LOT 2-1 PREPARED FOR: BOWMAN LAND OF: HCA HEALTH SERVICES OF NH			
REL	DATE: 02/29/2024		
DRAWN BY	JOB NO: 24-2003		
RFM	SCALE: 1" = 60'		
PROJECT MGR	DWG NAME: 24-2003.DWG		
	PLAN NO: 24-2003.DWG		
	SHEET: 1 OF 3		



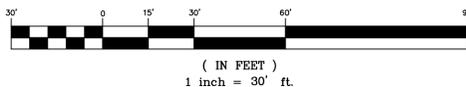
101 SHATTUCK WAY, SUITE 8, NEWINGTON, N.H., 03801 - 603-436-3557 - ©2024

SURVEYOR'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

LICENSED LAND SURVEYOR _____ DATE _____

GRAPHIC SCALE



SHEET 2
SHEET 1

SHEET 2
SHEET 1

NH STATE PLANE COORDINATE SYSTEM
NAD 1983

INTERSTATE 95
(BLUE STAR TURNPIKE)

APPROXIMATE LOT LINE

APPROXIMATE
10' GAS MAIN
EASEMENT TAKEN
FROM REF. PLANS

SHEET 2
SHEET 1

SHEET 2
SHEET 1

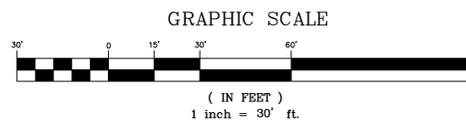
SHEET 2
SHEET 3

240-01
LIBERTY MUTUAL INSURANCE
ATTN: JOANNE BRAGG
175 BERKLEY STREET
BOSTON, MA 02116
BK: 2057 PG: 0357

240-2-1
HCA HEALTH SERVICES
OF NEW HAMPSHIRE, INC

SURVEYOR'S CERTIFICATION
"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

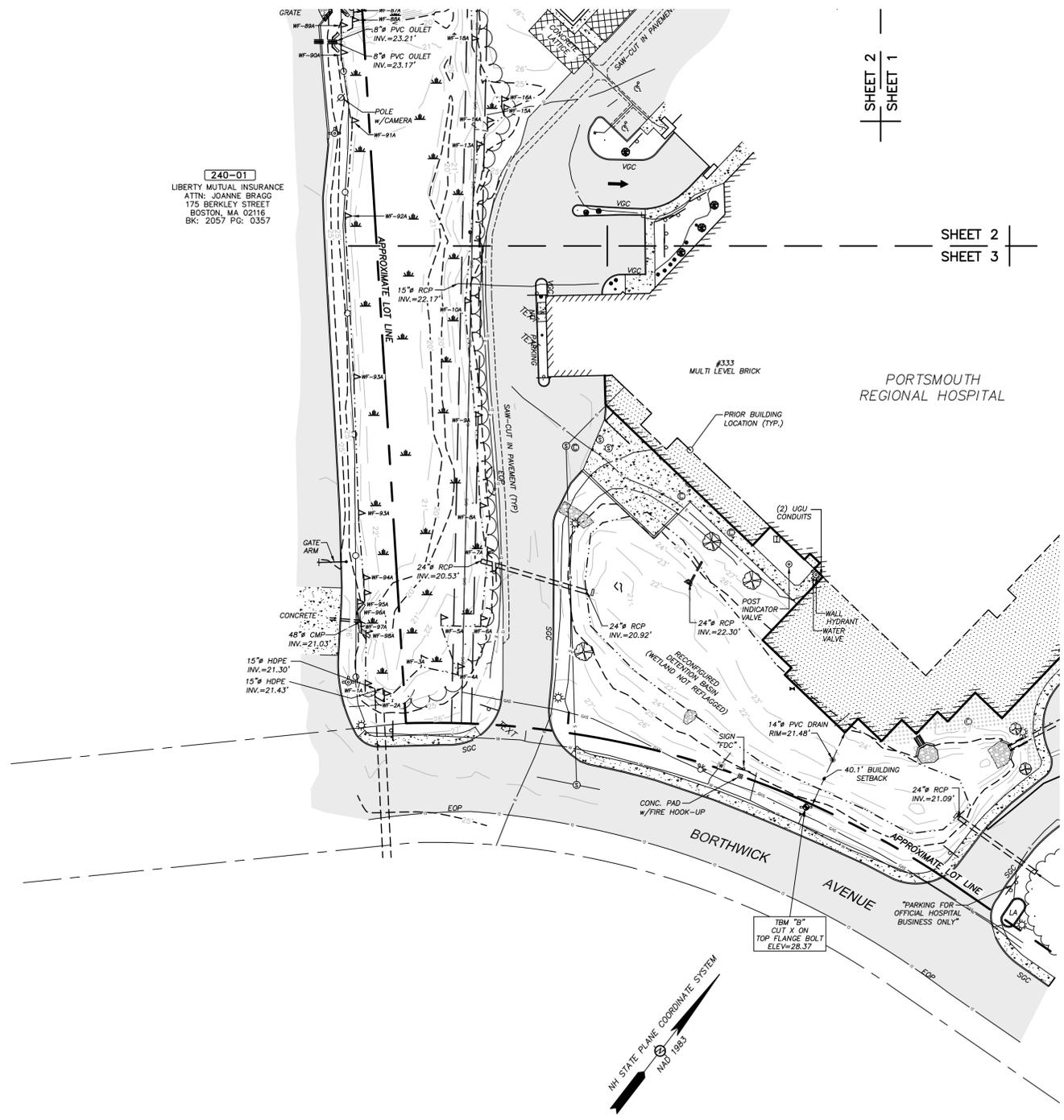
LICENSED LAND SURVEYOR _____ DATE _____



REV. NO.	DATE	DESCRIPTION	APPR'D
LIMITED EXISTING CONDITIONS PLAN PORTSMOUTH REGIONAL HOSPITAL – HCA 333 BORTHWICK AVENUE PORTSMOUTH, NEW HAMPSHIRE TAX MAP 240 LOT 2-1 PREPARED FOR: BOWMAN LAND OF: HCA HEALTH SERVICES OF NH			
REL	DATE: 02/29/2024		
DRAWN BY	JOB NO: 24-2003		
RMF	SCALE: 1" = 60'		
PROJECT MGR	DWG NAME: 24-2003.DWG		
	PLAN NO: 24-2003.DWG		
	SHEET: 2 OF 3		



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240-01
 LIBERTY MUTUAL INSURANCE
 ATTN: JOANNE BRAGG
 175 BERKLEY STREET
 BOSTON, MA 02118
 BK. 2057 PG. 0357

SHEET 2
 SHEET 1

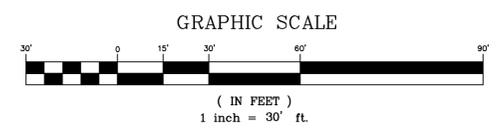
SHEET 2
 SHEET 3

NH STATE PLANE COORDINATE SYSTEM
 NAD 1983

SURVEYOR'S CERTIFICATION

"I HEREBY CERTIFY THAT THIS SURVEY AND PLAT WERE PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND AND HAS AN ERROR OF CLOSURE OF GREATER ACCURACY THAN ONE PART IN FIFTEEN THOUSAND (1:15,000)."

LICENSED LAND SURVEYOR _____ DATE _____



REV. NO.	DATE	DESCRIPTION	APPR'D
LIMITED EXISTING CONDITIONS PLAN PORTSMOUTH REGIONAL HOSPITAL – HCA 333 BORTHWICK AVENUE PORTSMOUTH, NEW HAMPSHIRE TAX MAP 240 LOT 2-1 PREPARED FOR: BOWMAN LAND OF: HCA HEALTH SERVICES OF NH			
REL	DATE: 02/29/2024		
DRAWN BY	JOB NO: 24-2003		
RMF	SCALE: 1" = 60'		
PROJECT MGR	DWG NAME: 24-2003.DWG		
	PLAN NO: 24-2003.DWG		
	SHEET: 3 OF 3		



101 SHATTUCK WAY, SUITE 8, NEWINGTON, N.H., 03801 - 603-436-3557 - ©2024

Appendix I
New Hampshire Natural Heritage Bureau Inquiry



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

To: Brenden Walden, Gove Environmental Services, Inc.
8 Continental Drive Bldg 2 Unit H
Exeter, NH 03833
info@gesinc.biz

From: NHB Review
NH Natural Heritage Bureau
Main Contact: nhbreview@dncr.nh.gov

cc: NHFG Review

Date: 07/26/2024 (valid until 07/26/2025)

Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game

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

NHB ID: NHB24-2219

Town: Portsmouth
Location: 333 Borthwick Avenue

Project Description: Culvert replacement on a tier one stream located in the rear of the property

Next Steps for Applicant:

NHB's database has been searched for records of rare species and exemplary natural communities. Please carefully read the comments and consultation requirements below.

NHB Comments: No comments at this time.

NHFG Comments: Please refer to NHFG consultation requirements below.

NHB Consultation

If this NHB DataCheck letter includes records of rare plants and/or natural communities/systems, please contact NHB and provide any requested supplementary materials by emailing nhbreview@dncr.nh.gov.

If this NHB DataCheck letter DOES NOT include any records of rare plants and/or natural communities/systems, no further consultation with NHB is required.

NH Fish and Game Department Consultation

If this NHB DataCheck letter DOES NOT include ANY wildlife species records, then, based on the information submitted, no further consultation with the NH Fish and Game Department pursuant to Fis 1004 is required.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

If this NHB DataCheck letter includes a record for a threatened (T) or endangered (E) wildlife species, consultation with the New Hampshire Fish and Game Department under Fis 1004 may be required. To review the Fis 1000 rules (effective February 3, 2022), please go to <https://www.wildlife.nh.gov/wildlife-and-habitat/nongame-and-endangered-species/environmental-review>. All requests for consultation and submittals should be sent via email to NHFGreview@wildlife.nh.gov or can be sent by mail, and **must include the NHB DataCheck results letter number and "Fis 1004 consultation request" in the subject line.**

If the NHB DataCheck response letter does not include a threatened or endangered wildlife species but includes other wildlife species (e.g., Species of Special Concern), consultation under Fis 1004 is not required; however, some species are protected under other state laws or rules, so coordination with NH Fish & Game is highly recommended or may be required for certain permits. While some permitting processes are exempt from required consultation under Fis 1004 (e.g., *statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule*), coordination with NH Fish & Game may still be required under the rules governing those specific permitting processes, and it is recommended you contact the applicable permitting agency. For projects not requiring consultation under Fis 1004, but where additional coordination with NH Fish and Game is requested, please email NHFGreview@wildlife.nh.gov, and include the NHB DataCheck results letter number and "review request" in the email subject line.

Contact NH Fish & Game at (603) 271-0467 with questions.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB Database Records:

The following record(s) have been documented in the vicinity of the proposed project. Please see the map and detailed information about the record(s) on the following pages.

Vertebrate species	State ¹	Federal	Notes
Blanding's Turtle (<i>Emydoidea blandingii</i>)	E	--	Contact the NH Fish & Game Dept (see below).
Marsh Wren (<i>Cistothorus palustris</i>)	--	--	Contact the NH Fish & Game Dept (see above).
Sora (<i>Porzana carolina</i>)	SC	--	Contact the NH Fish & Game Dept (see above).

¹Codes: "E" = Endangered, "T" = Threatened, "SC" = Special Concern, "--" = an exemplary natural community, or a rare species tracked by NH Natural Heritage that has not yet been added to the official state list.

An asterisk (*) indicates that the most recent report for that occurrence was 20 or more years ago.

For all animal reviews, refer to 'IMPORTANT: NHFG Consultation' section above.

Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.

However, many areas have never been surveyed, or have only been surveyed for certain species. NHB recommends surveys to determine what species/natural communities are present onsite.



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219



NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219

EOCODE:

ARAD04010*632*NH

New Hampshire Natural Heritage Bureau - Animal Record

Blanding's Turtle (*Emydoidea blandingii*)

Legal Status

Federal: Not listed
State: Listed Endangered

Conservation Status

Global: Apparently secure but with cause for concern
State: Critically imperiled due to rarity or vulnerability

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2011: Area 12906: 1 adult observed.

General Area: 2011: Area 12906: Marsh along railroad tracks.

General Comments: --

Management --

Comments:

Location

Survey Site Name: Meadowbrook
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 1.9 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: 2011: Area 12906: Marsh adjacent to 333 Borthwick Avenue, behind Portsmouth Regional Hospital.

Dates documented

First reported: 2011-05-07 Last reported: 2011-05-07

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219

EOCODE:

ABPBG10020*019*NH

New Hampshire Natural Heritage Bureau - Animal Record

Marsh Wren (*Cistothorus palustris*)

Legal Status

Federal: Not listed
State: Not listed

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Not ranked (need more information)

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2020: 8 observed between 5/2 and 8/17. 2019: 3 observed between 5/12 and 6/30. Includes marsh area on north side of railroad tracks. 2016: 2 observed between 5/8 and 7/23. 2013: 3 observed between 5/18 and 5/26. 2012: Species observed on 5/18 and 5/19. 2011: Species observed on 5/21. 2010: 1 observed between 5/17 and 5/22. 2009: 3 observed on 6/20. 2006: Species observed on 5/25. 1997: 2 observed on 6/22.

General Area: --

General Comments: 2020: Includes data from NH Audubon sites "Portsmouth City Park" and "Borthwick Ave. Marsh".

Management: --

Comments:

Location

Survey Site Name: Portsmouth Hospital Marsh
Managed By: Hospital Corporation of America

County: Rockingham

Town(s): Portsmouth

Size: 33.6 acres

Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: --

Dates documented

First reported: 1997-06-22

Last reported: 2020-08-17

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

NHB DataCheck Results Letter

NH Natural Heritage Bureau

Please note: maps and NHB record pages are **confidential** and shall be redacted from public documents.

NHB24-2219

EPCODE:

ABNME08020*010*NH

New Hampshire Natural Heritage Bureau - Animal Record

Sora (Porzana carolina)

Legal Status

Federal: Not listed
State: Special Concern

Conservation Status

Global: Demonstrably widespread, abundant, and secure
State: Not ranked (need more information)

Description at this Location

Conservation Rank: Not ranked
Comments on Rank: --

Detailed Description: 2021: 2 observed between 5/12 and 6/4. 2020: 2 observed between 5/1 and 7/14.
2019: 1 observed 5/9 and 6/3. 2012: 1 observed between 5/18 and 5/26. 2011: 1
observed on 5/21. 2009: 2 observed between 5/3 and 5/24. 1997: 2 observed on 6/22.
1996: 1 observed on 5/15.

General Area: --
General Comments: --
Management: --
Comments:

Location

Survey Site Name: Portsmouth Hospital Marsh
Managed By: Hospital Corporation of America

County: Rockingham
Town(s): Portsmouth
Size: 33.6 acres Elevation:

Precision: Within (but not necessarily restricted to) the area indicated on the map.

Directions: --

Dates documented

First reported: 1996-05-15 Last reported: 2021-06-04

The New Hampshire Fish & Game Department has jurisdiction over rare wildlife in New Hampshire. Please contact them at 11 Hazen Drive, Concord, NH 03301 or at (603) 271-2461.

Appendix II
New Hampshire Department of Historic Resources Inquiry

Appendix III
Tax Map, List of Abutters, Abutter Notification Letter, and Certified Mail Receipts

Subject Property

Tax Map 240 Lot 2-1
HCA Health Services of New Hampshire
PO Box 80610,
Indianapolis, IN 46280

Abutters:

Tax Map 240 Lot 1
Liberty Mutual Insurance Company
Attn: Joanne Bragg
175 Berkeley St
Boston, MA 02116

Tax Map 240 Lot 2-1001
City of Portsmouth DPW
PO Box 628
Portsmouth, NH 03802

Tax Map 234 Lot 7-3
City of Portsmouth
1 Junkins Ave
Portsmouth, NH 03802

Whidden Street Outfall Reconstruction
Wetlands Permit – Narrative

Project Description:

The existing stormwater overflow structure was installed in 2018 under the Pleasant Street reconstruction project. Prior to 2018, Whidden Street drainage was directed into the sewer system. The 2018 project separated the stormwater system from the sewer system by installation of catchbasins along the roadway which then collect into a dry well at the end of the paved area of the street. The dry well has a catchbasin grate that was designed to take a 2-year rain event, then overflow through the grate into the City right-of-way.

Over the past several years, during high volume rain events, the overflow from the drywell has been overcasting the curbing set in place and flowing onto the property of 50 Whidden Street. The existing topography is such that there is a 1:1 slope into the backyard of the property, additional berming to direct overflow back into the City right-of-way is not possible.

This reconstruction project proposes to install a 12" diameter HDPE drain pipe from the drywell approximately 40' in the City right-of-way to discharge the overflow further down the hill to ensure the runoff does not enter into the abutters properties. The pipe will be installed at an elevation in the drywell such that the drywell will still handle the 2-year rain event before exiting into the new drain pipe.

The impacts of this proposed work will be temporary and the areas effected will be brought back to existing conditions. There will be no increase of impervious area.



STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management
[Check the Status of your Application](#)



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

APPLICANT'S NAME:

TOWN NAME:

Administrative Use Only	Administrative Use Only	Administrative Use Only	File No.:
			Check No.:
			Amount:
			Initials:

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 type="checkbox"/> Yes <input type="checkbox"/> No
Does the property contain a PRA? If yes, provide the following information: <ul style="list-style-type: none"> • Does the project qualify for an Impact Classification Adjustment (e.g. NH Fish and Game Department (NHFG) 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. • Protected species or habitat? <ul style="list-style-type: none"> ○ If yes, species or habitat name(s): ○ NHB Project ID #: • Bog? • Floodplain wetland contiguous to a tier 3 or higher watercourse? • Designated prime wetland or duly-established 100-foot buffer? • Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone? 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
Is the property within a Designated River corridor? If yes, provide the following information: <ul style="list-style-type: none"> • Name of Local River Management Advisory Committee (LAC): • A copy of the application was sent to the LAC on Month: Day: Year: 	<input type="checkbox"/> Yes <input type="checkbox"/> No

For dredging projects, is the subject property contaminated? • If yes, list contaminant:	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	<input type="checkbox"/> Yes <input type="checkbox"/> No
---	--

For stream crossing projects, provide watershed size (see [WPPT](#) or Stream Stats):

SECTION 2 - PROJECT DESCRIPTION (Env-Wt 311.04(i))
 Provide a description of the project and the purpose of the project, the need for the proposed impacts to jurisdictional areas, an outline-of the scope of work to be performed, and whether impacts are temporary or permanent.

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

ADDRESS:

TOWN/CITY:

TAX MAP/BLOCK/LOT/UNIT:

US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME:
 N/A

(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):

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:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		
SECTION 5 - AUTHORIZED AGENT INFORMATION (Env-Wt 311.04(c))		
<input type="checkbox"/> N/A		
LAST NAME, FIRST NAME, M.I.:		
COMPANY NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, 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 type="checkbox"/> Same as applicant		
NAME:		
MAILING ADDRESS:		
TOWN/CITY:	STATE:	ZIP CODE:
EMAIL ADDRESS:		
FAX:	PHONE:	
ELECTRONIC COMMUNICATION: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

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

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

des.nh.gov

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):

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 (PERM.) impacts are impacts that will remain after the project is complete (e.g., changes in grade or surface materials).

Temporary (TEMP.) impacts are impacts not intended to remain (and will be restored to pre-construction conditions) after the project is completed.

JURISDICTIONAL AREA		PERM. SF	PERM. LF	PERM. ATF	TEMP. SF	TEMP. LF	TEMP. ATF
Wetlands	Forested Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Scrub-shrub Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Emergent Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Wet Meadow			<input type="checkbox"/>			<input type="checkbox"/>
	Vernal Pool			<input type="checkbox"/>			<input type="checkbox"/>
	Designated Prime Wetland			<input type="checkbox"/>			<input type="checkbox"/>
	Duly-established 100-foot Prime Wetland Buffer			<input type="checkbox"/>			<input type="checkbox"/>
Surface	Intermittent / Ephemeral Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Perennial Stream or River			<input type="checkbox"/>			<input type="checkbox"/>
	Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - River			<input type="checkbox"/>			<input type="checkbox"/>
Banks	Bank - Intermittent Stream			<input type="checkbox"/>			<input type="checkbox"/>
	Bank - Perennial Stream / River			<input type="checkbox"/>			<input type="checkbox"/>
	Bank / Shoreline - Lake / Pond			<input type="checkbox"/>			<input type="checkbox"/>
Tidal	Tidal Waters			<input type="checkbox"/>			<input type="checkbox"/>
	Tidal Marsh			<input type="checkbox"/>			<input type="checkbox"/>
	Sand Dune			<input type="checkbox"/>			<input type="checkbox"/>
	Undeveloped Tidal Buffer Zone (TBZ)			<input type="checkbox"/>			<input type="checkbox"/>
	Previously-developed TBZ			<input type="checkbox"/>			<input type="checkbox"/>
	Docking - Tidal Water			<input type="checkbox"/>			<input type="checkbox"/>
TOTAL							

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

- MINIMUM IMPACT FEE:** Flat fee of \$400.
- 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).
- MINOR OR MAJOR IMPACT FEE:** Calculate using the table below:

Permanent and temporary (non-docking):	SF	× \$0.40 =	\$
Seasonal docking structure:	SF	× \$2.00 =	\$
Permanent docking structure:	SF	× \$4.00 =	\$
Projects proposing shoreline structures (including docks) add \$400 =			\$
Total =			\$

The application fee for minor or major impact is the above calculated total or \$400, whichever is greater = \$

SECTION 13 - PROJECT CLASSIFICATION (Env-Wt 306.05)

Indicate the project classification.

<input type="checkbox"/> Minimum Impact Project	<input type="checkbox"/> Minor Project	<input type="checkbox"/> 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:	<p>The signer understands that:</p> <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.
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:	DATE:
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE):	PRINT NAME LEGIBLY:	DATE:

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:
TOWN/CITY:	DATE:

DIRECTIONS FOR TOWN/CITY CLERK:

Per RSA 482-A:3, I(a)(1)

1. IMMEDIATELY sign the original application form and four copies in the signature space provided above.
2. 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.
3. 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.
4. Retain one copy of the application form and one complete set of attachments and make them reasonably accessible for public review.

DIRECTIONS FOR APPLICANT:

Submit the 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 at the address at the bottom of this page. Make check or money order payable to "Treasurer – State of NH".

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

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

des.nh.gov

Keep this checklist for your reference; do not submit with your application.

APPLICATION CHECKLIST

Unless specified, all items below are required. Failure to provide the required items will delay a decision on your project and may result in denial of your application. Please reference statute RSA 482-A, Fill and Dredge in Wetlands, and the [Wetland Rules Env-Wt 100-900](#).

- The completed, dated, signed, and certified application (Env-Wt 311.03(b)(1)).
- Correct fee as determined in RSA 482-A:3, I(b) or (c), subject to any cap established by RSA 482-A:3, X (Env-Wt 311.03(b)(2)). Make check or money order payable to "Treasurer – State of NH".
- The Required Planning actions required by Env-Wt 311.01(a)-(c) and Env-Wt 311.03(b)(3).
- [US Army Corps of Engineers \(ACE\) "Appendix B, New Hampshire General Permits \(GPs\), Required Information and Corps Secondary Impacts Checklist"](#) and its required attachments (Env-Wt 307.02). This includes the [US Fish and Wildlife Service IPAC review](#) and [Section 106 Historic/Archaeological Resource review](#).
- Project plans described in Env-Wt 311.05 (Env-Wt 311.03(b)(4)).
- Maps, or electronic shape files and meta data, and other attachments specified in Env-Wt 311.06 (Env-Wt 311.03(b)(5)).
- Explanation of the methods, timing, and manner as to how the project will meet standard permit conditions required in Env-Wt 307 (Env-Wt 311.03(b)(7)).
- If applicable, the information regarding proposed compensatory mitigation specified in Env-Wt 311.08 and Chapter Env-Wt 800 - [Permittee Responsible Mitigation Project Worksheet](#), unless not required under Env-Wt 313.04 (Env-Wt 311.03(b)(8); Env-Wt 311.08; Env-Wt 313.04).
- Any additional information specific to the **type of resource** as specified in Env-Wt 311.09 (Env-Wt 311.03(b)(9); Env-Wt 311.04(j)).
- Project specific information required by Env-Wt 500, Env-Wt 600, and Env-Wt 900 (Env-Wt 311.03(b)(11)).
- A list containing the name, mailing address and tax map/lot number of each abutter to the subject property (Env-Wt 311.03(b)(12)).
- Copies of certified postal receipts or other proof of receipt of the notices that are required by RSA 482-A:3, I(d) (Env-Wt 311.03(b)(13)).
- Project design considerations required by Env-Wt 313 (Env-Wt 311.04(j)).
- Town tax map showing the subject property, the location of the project on the property, and the location of properties of abutters with each lot labeled with the name and mailing address of the abutter (Env-Wt 311.06(a)).
- Dated and labeled color photographs that:
 - (1) Clearly depict:
 - a. All jurisdictional areas, including but not limited to portions of wetland, shoreline, or surface water where impacts have or are proposed to occur.
 - b. All existing shoreline structures.
 - (2) Are mounted or printed no more than 2 per sheet on 8.5 x 11 inch sheets (Env-Wt 311.06(b)).
- A copy of the appropriate US Geological Survey map or updated data based on LiDAR at a scale of one inch equals 2,000 feet showing the location of the subject property and proposed project (Env-Wt 311.06(c)).
- A narrative that describes the work sequence, including pre-construction through post-construction, and the relative timing and progression of all work (Env-Wt 311.06(d)).

- For all projects in the protected tidal zone, a copy of the recorded deed with book and page numbers for the property (Env-Wt 311.06(e)).
- If the applicant is not the owner in fee of the subject property, documentation of the applicant's legal interest in the subject property, provided that for utility projects in a utility corridor, such documentation may comprise a list that:
 - (1) Identifies the county registry of deeds and book and page numbers of all of the easements or other recorded instruments that provide the necessary legal interest; and
 - (2) Has been certified as complete and accurate by a knowledgeable representative of the applicant (Env-Wt 311.06(f)).
- The NHB memo containing the NHB identification number and results and recommendations from NHB as well as documentation of any consultation requests made to NHFG, communications and information related to the consultation, with the consultation results and recommendations from NHFG. (Env-Wt 311.06(g)). See [Wetlands Permitting: Protected Species and Habitat Fact Sheet](#).
- A statement of whether the applicant has received comments from the local conservation commission and, if so, how the applicant has addressed the comments (Env-Wt 311.06(h)).
- For projects in LAC jurisdiction, a statement of whether the applicant has received comments from the LAC and, if so, how the applicant has addressed the comments (Env-Wt 311.06(i)).
- If the applicant is also seeking to be covered by the state general permits, a statement of whether comments have been received from any federal agency and, if so, how the applicant has addressed the comments (Env-Wt 311.06(j)).
- [Avoidance and Minimization Written Narrative](#) or the [Avoidance and Minimization Checklist](#), or your own avoidance and minimization narrative (Env-Wt 311.07).
- For after-the-fact applications: information required by Env-Wt 311.12.
- [Coastal Resource Worksheet](#) for coastal projects as required under Env-Wt 600.
- Prime Wetlands information required under Env-Wt 700. See [WPPT](#) for prime wetland mapping.
- For non-tidal shoreline structure projects, the length of shoreline frontage per Env-Wt 311.09(b)(1)

Required Attachments for Minor and Major Projects

- [Attachment A: Minor and Major Projects](#) (Env-Wt 313.03).
- [Functional Assessment Worksheet](#) or others means of documenting the results of actions required by Env-Wt 311.10 as part of an application preparation for a standard permit (Env-Wt 311.03(b)(3); Env-Wt 311.03(b)(10)). See [Functional Assessments for Wetlands and Other Aquatic Resources Fact Sheet](#). For shoreline structures, see shoreline structures exemption in Env-Wt 311.03(b)(10)).

Optional Materials

- [Stream Crossing Worksheet](#) which summarizes the requirements for stream crossings under Env-Wt 900.
- Request for [concurrent processing of related shoreland / wetlands permit applications](#) (Env-Wt 313.05).

WHIDDEN STREET DRAINAGE OUTFALL IMPROVEMENTS PROJECT #7207 PORTSMOUTH, NEW HAMPSHIRE

SPRING 2025



REFERENCES:
 SPEC SECTION: _____
 SPEC SECTION: _____
 SPEC SECTION: _____
 DETAIL: _____
 DETAIL: _____

DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1630

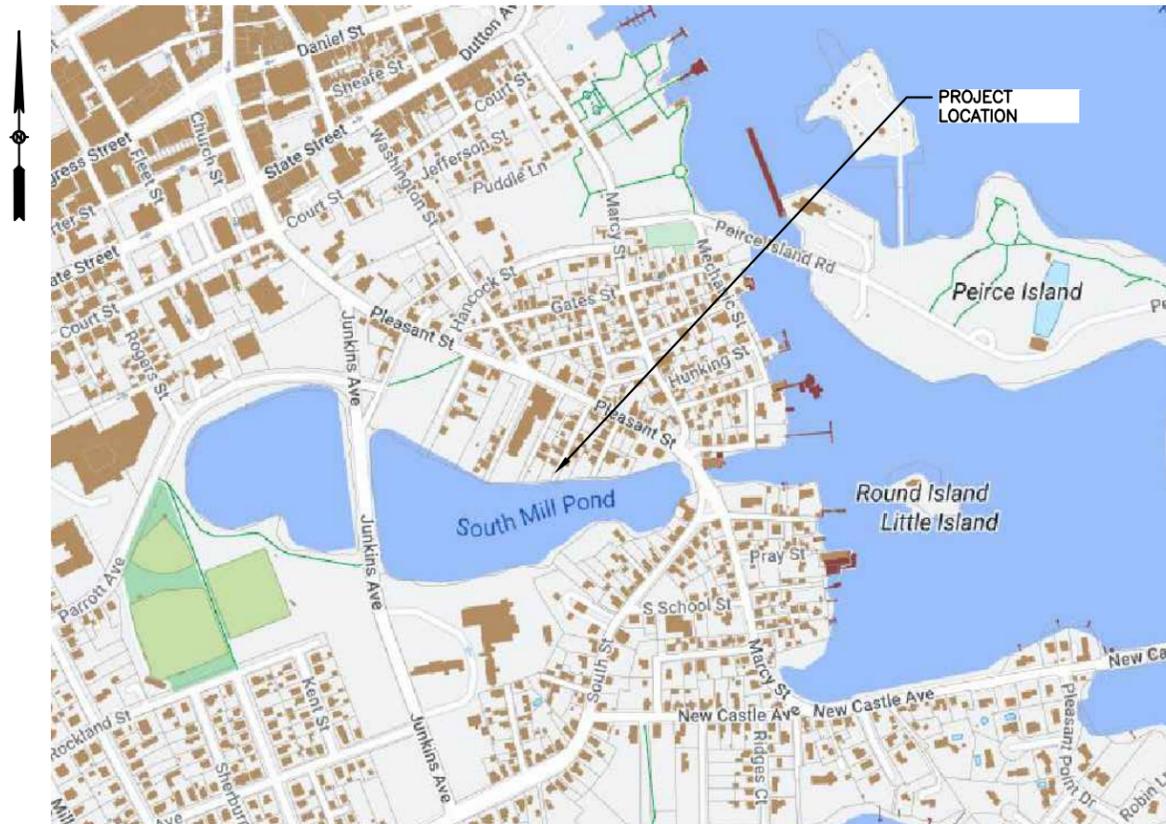


PREPARED FOR: DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

PREPARED BY: DEPARTMENT OF PUBLIC WORKS
 CITY OF PORTSMOUTH, NH 03801
 680 PEVERLY HILL ROAD
 PORTSMOUTH, NH 03801

SURVEY BY: MSC A DIVISION OF TFMORAN, INC.
 170 COMMERCE WAY, SUITE 102
 PORTSMOUTH, NH 03801

GEOTECHNICAL BY: JOHN TURNER CONSULTING
 19 DOVER STREET
 DOVER, NH 03820



DATE: OCT. 24, 2024
 SCALE: AS SHOWN
 PROJ. NO.: 7207
 APVD BY: MRB

PROJECT: WHIDDEN STREET
 DRAINAGE IMPROVEMENTS
 TITLE: COVER SHEET

SHEET: COVER

INDEX	SHEET NO.	LATEST REV.
GENERAL NOTES	G-100	
UTILITIES PLAN	C-100	
WETLAND BUFFER IMPACT AREAS	C-200	
EROSION AND SEDIMENT CONTROL PLAN	C-300	
DETAILS SHEET	C-400	

ISSUED FOR CONSERVATION COMMISSION REVIEW

OCTOBER 24, 2024

LEGEND:

EXISTING	PROPOSED	
		PROPERTY LINE
		RIGHT-OF-WAY LINE
		HIGHEST OBSERVED TIDE LINE (HOTL)
		BUILDING
		EDGE OF PAVEMENT
		CURB
		RETAINING WALL
		LOOSE STONE WALL
		FENCE
		GUARDRAIL
		SHRUB
		TREE
		TEMPORARY BENCHMARK
		2' CONTOUR
		WETLANDS
		WETLANDS BOUNDARY
		DRAINAGE
		WATER
		GRAVITY SEWER
		UNDERGROUND TELE.
		OVERHEAD WIRES
		GAS
		FIRE HYDRANT
		UTILITY POLE
		UTILITY POLE w/ LIGHT
		CATCHBASIN
		MANHOLE
		WATER SHUT OFF
		WATER VALVE
		RIP-RAP APRON
		EROSION CONTROL

DEMOLITION NOTES:

- LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- MATERIAL TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- ANY DAMAGE BY THE CONTRACTOR DURING DEMOLITION AND/OR CONSTRUCTION SHALL BE REPAIRS OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND FEES NECESSARY TO COMPLETE THE WORK.
- ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL BE COORDINATED WITH THE CITY OF PORTSMOUTH.
- CONTRACTOR SHALL PROTECT ALL FIELD STONE WALLS, FENCES, MAILBOXES, STRUCTURES, ETC. THROUGHOUT THE COMPLETION OF THE WORK.
- EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION WORK. THIS INCLUDES SILT FENCE / SILT SOCK AND INLET PROTECTION BARRIERS.
- CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS ACCESS TO RESIDENTIAL PROPERTIES THROUGHOUT THE CONSTRUCTION PERIOD.
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING STRUCTURES, CONCRETE PADS, PAVEMENT, PIPES AND HEADWALLS WITHIN THE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE WITH ALL APPLICABLE UTILITIES. WORK ASSOCIATED WITH UTILITIES, BUT NOT LIMITED TO, RELOCATION OF UTILITY POLES.
- CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.

GRADING NOTES:

- CONTRACTOR SHALL CLEAN ALL STRUCTURES WITHIN THE CONSTRUCTION LIMITS IMMEDIATELY UPON COMPLETION OF THE WORK. ALL SEDIMENT AND DEBRIS SHALL BE DISPOSED OF PER FEDERAL, STATE AND LOCAL REGULATIONS.
- STORM DRAIN PIPING, UNLESS OTHERWISE NOTED, SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR APPROVED EQUAL).
- ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
- CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM REQUIREMENTS FOR COMPACTION:

BELOW PAVEMENT AND CONCRETE AREAS:	95%
TRENCH BEDDING AND BACKFILL:	95%
BELOW LOAM AND SEED AREAS:	90%

 COMPACTION PERCENTAGES SHALL BE THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D-1557, METHOD C. FIELD DENSITY TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
- STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION (NHDOT) AND CITY OF PORTSMOUTH DPW STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL GRADE SLOPES TO THE LINES AND GRADES SHOWN ON THE PLANS. SLOPES STEEPER THAN 2:1 SHALL INCLUDE 6" RIP-RAP STONE FOR A DEPTH OF 18". SLOPES FROM 4:1 TO 2:1, CONTRACTOR SHALL PROVIDE A SLOPE STABILIZATION BLANKET.

SITE NOTES:

- ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS.
- MATERIALS AND CONSTRUCTION SHALL COMPLY TO ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE A LICENSED ENGINEER OR SURVEYOR TO DETERMINE ALL LINES AND GRADE.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL VERTICAL AN HORIZONTAL CONTROL FOR THE PROJECT.
- CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF PORTSMOUTH FOR APPROVAL.

UTILITY NOTES:

- CONTRACTOR SHALL IDENTIFY AND RECORD SWING TIES TO ALL EXISTING UTILITY STRUCTURES, INCLUDING, BUT NOT LIMITED TO WATER SHUT OFF VALVES, MANHOLES, FIRE HYDRANTS.
- CONTRACTOR SHALL COORDINATE UTILITY WORK WITH THE APPROPRIATE UTILITY COMPANY.

ELECTRIC -	EVERSOURCE
TELEPHONE -	FAIRPOINT
WATER/SEWER -	CITY OF PORTSMOUTH
GAS -	UNITIL
- LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND NOT GUARANTEED. CONTRACTOR SHALL LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR AND/OR RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS, ARRANGE ALL INSPECTIONS, AND SUBMIT CERTIFICATES OF ACCEPTANCE TO THE OWNER PRIOR TO COMPLETION OF THE PROJECT.
- CONTRACTOR SHALL NOTIFY DIG-SAFE 72 HOURS PRIOR TO ANY WORK STARTING. CONTRACTOR REQUIRED TO MAINTAIN AN ACTIVE DIG-SAFE PERMIT THROUGHOUT THE DURATION OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, CATCHBASINS, FRAMES, GRATES & COVERS, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF THE UTILITY COMPLETE AND OPERATIONAL.
- NEW FRAMES, GATE VALVES AND CURB STOPS SHALL BE ADJUSTED TO GRADE. ADJUSTMENTS (TEMP. & FINAL) ARE INCIDENTAL TO THE PAY ITEM.
- REMOVAL OF EXISTING ABANDONED PIPE IN CONFLICT WITH NEW PIPE SHALL BE INCIDENTAL TO THE PIPE PAY ITEM.

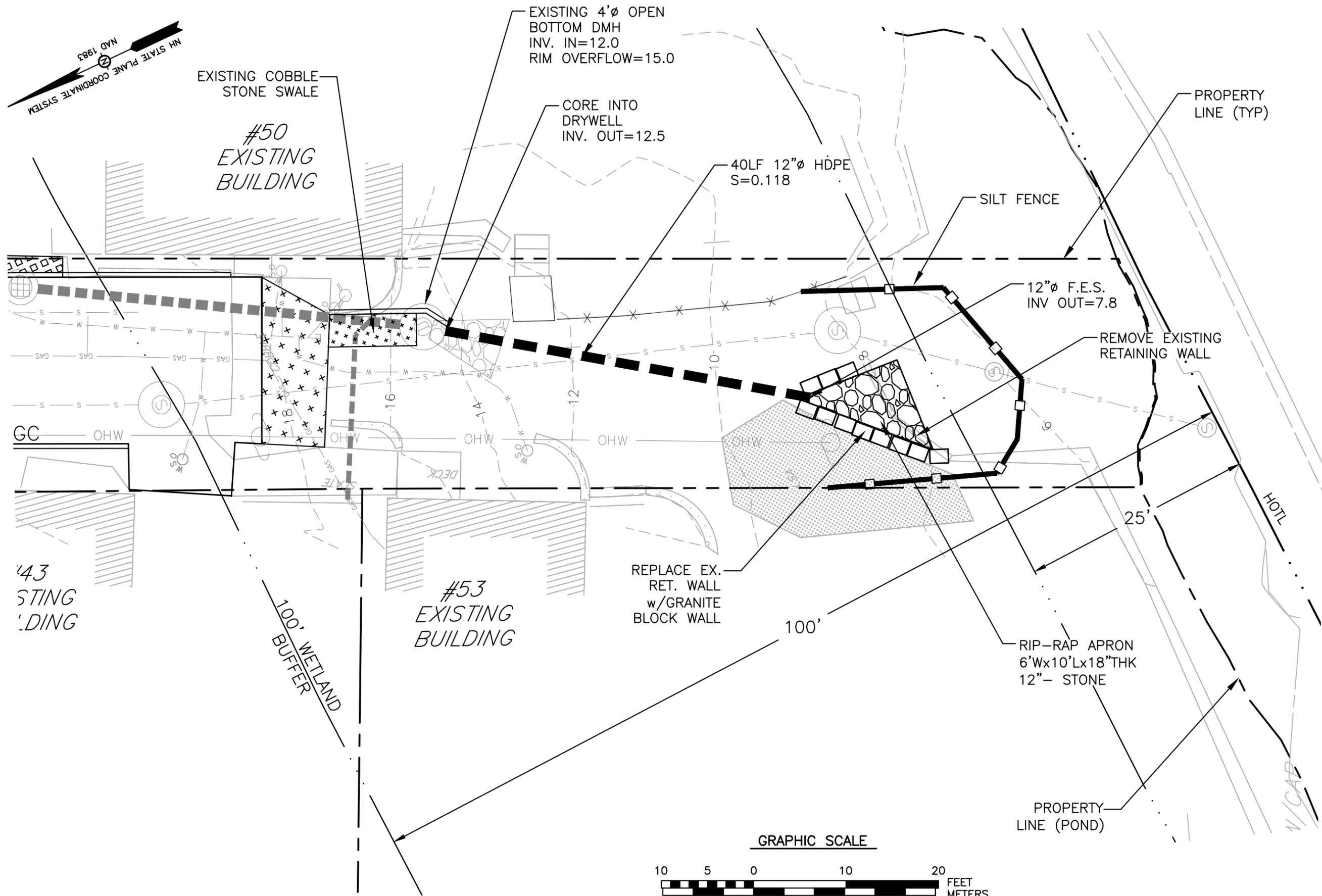
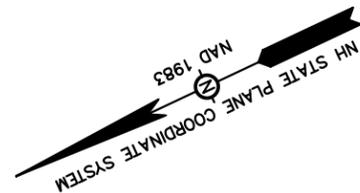
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DETAIL:	

DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1630



DATE:	OCT. 24, 2024
SCALE:	AS SHOWN
PROJ. NO.:	7207
APVD BY:	MRB

PROJECT:	WHIDDEN STREET DRAINAGE IMPROVEMENTS
TITLE:	GENERAL NOTES



EXISTING 4'Ø OPEN
BOTTOM DMH
INV. IN=12.0
RIM OVERFLOW=15.0

CORE INTO
DRYWELL
INV. OUT=12.5

40LF 12"Ø HDPE
S=0.118

SILT FENCE

PROPERTY
LINE (TYP)

EXISTING COBBLE
STONE SWALE

#50
EXISTING
BUILDING

12"Ø F.E.S.
INV OUT=7.8

REMOVE EXISTING
RETAINING WALL

REPLACE EX.
RET. WALL
w/GRANITE
BLOCK WALL

RIP-RAP APRON
6'Wx10'Lx18"THK
12"- STONE

#43
EXISTING
BUILDING

100' WETLAND
BUFFER

#53
EXISTING
BUILDING

PROPERTY
LINE (POND)

GRAPHIC SCALE



REFERENCES:

SPEC SECTION:	
SPEC SECTION:	
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DETAIL:	

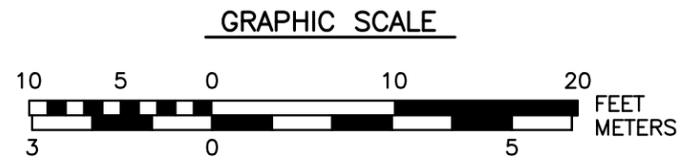
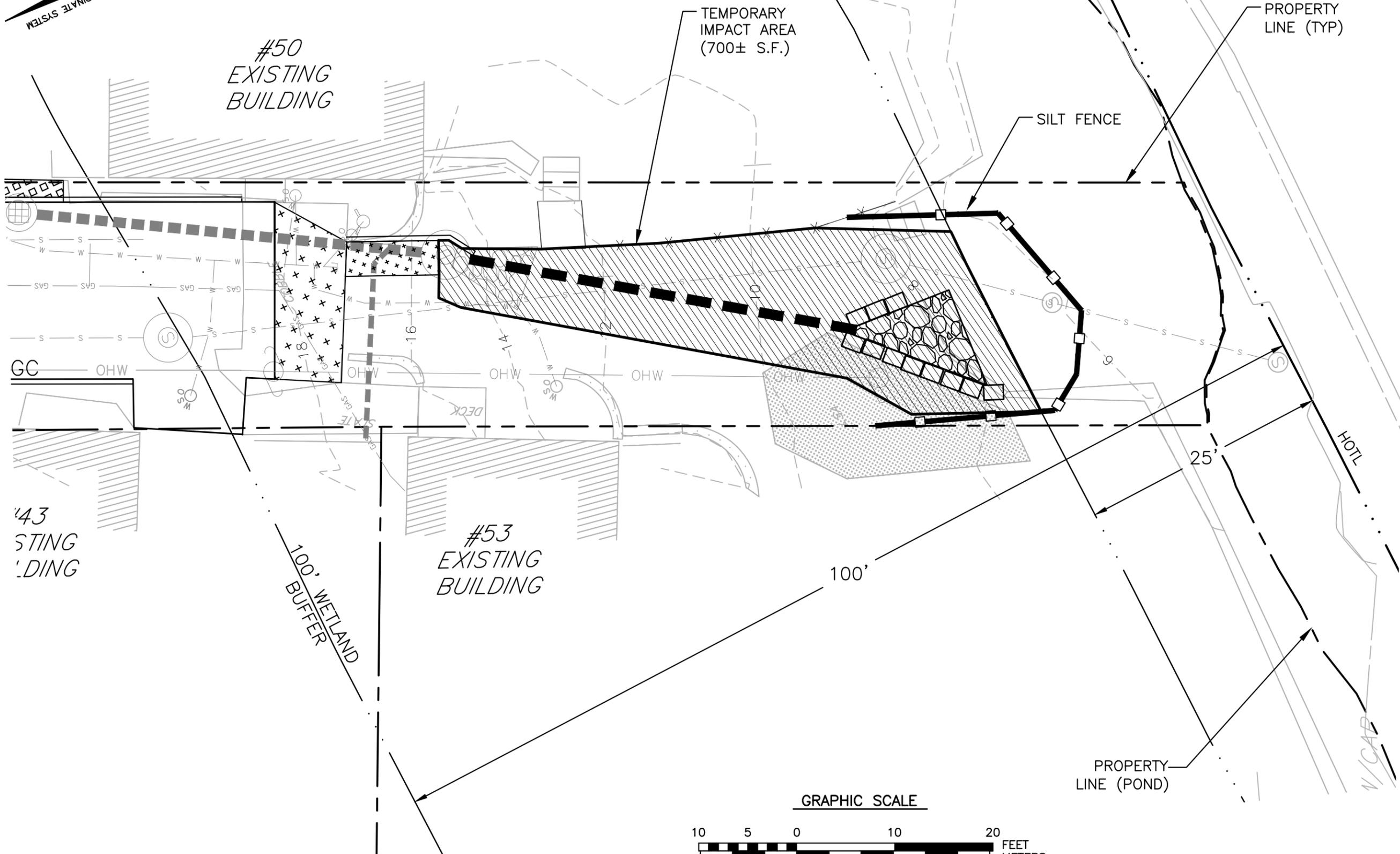
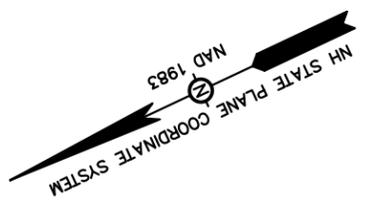
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1630



DATE:	OCT. 24, 2024
SCALE:	AS SHOWN
PROJ. NO.:	7207
APVD BY:	MRB

PROJECT:	WHIDDEN STREET DRAINAGE IMPROVEMENTS
TITLE:	UTILITY PLAN

SHEET:
C-100



REFERENCES:
 SPEC SECTION: _____
 SPEC SECTION: _____
 SPEC SECTION: _____
 DETAIL: _____
 DETAIL: _____

DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1630



DATE: OCT. 24, 2024
 SCALE: AS SHOWN
 PROJ. NO.: 7207
 APVD BY: MRB

PROJECT: WHIDDEN STREET
 DRAINAGE IMPROVEMENTS
 TITLE: WETLAND BUFFER IMPACT PLAN

SHEET: C-200

PROJECT NAME AND LOCATION:

WHIDDEN STREET DRAINAGE IMPROVEMENTS
PORTSMOUTH, NEW HAMPSHIRE

DESCRIPTION:

THE PROJECT CONSISTS OF INSTALLATION OF NEW STORMWATER DRAINAGE DISCHARGE PIPE FROM EXISTING DRYWELL TO NEW OUTFALL WITHIN THE CITY RIGHT-OF-WAY.

CONSTRUCTION SEQUENCE:

1. INSTALL ALL EROSION CONTROL MEASURES.
2. EXCAVATION AND INSTALLATION OF DRAINAGE PIPE FROM DRYWELL TO NEW OUTFALL.
3. BACKFILL PIPE TO SUBGRADE.
4. INSTALLATION OF GRANITE BLOCKS AROUND RIP-RAP.
5. INSTALLATION OF RIP-RAP STONE AT DISCHARGE POINT.
6. PLACE 6" LOAM AND SEED (WETLANDS MIX).
7. INSTALL SLOPE STABILIZATION BLANKET.
8. WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES.

EROSION AND SEDIMENT CONTROLS AND STABILIZATION PRACTICES:

THE EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION" OF THE NHDOT, AND "STORM WATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL HANDBOOK FOR URBAN AND DEVELOPING AREAS IN NEW HAMPSHIRE".

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:

- BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
- A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
- A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
- EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

DUST CONTROL: IF TEMPORARY STABILIZATION PRACTICES, SUCH AS TEMPORARY VEGETATION AND MULCHING, DO NOT ADEQUATELY REDUCE DUST GENERATION, APPLICATION OF WATER OR CALCIUM CHLORIDE SHALL BE APPLIED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES.

ALL EROSION CONTROLS SHALL BE INSPECTED WEEKLY DURING THE LIFE OF THE PROJECT AND AFTER EACH STORM OF 0.5" OR GREATER. ALL DAMAGED SILT FENCES SHALL BE REPAIRED. SEDIMENT DEPOSITS SHALL PERIODICALLY BE REMOVED AND DISPOSED IN A SECURED LOCATION.

AVOID THE USE OF FUTURE OPEN SPACES (LOAM AND SEED AREAS) WHEREVER POSSIBLE DURING CONSTRUCTION. CONSTRUCTION TRAFFIC SHALL USE THE ROADBEDS OF FUTURE ACCESS DRIVES AND PARKING AREAS.

TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. CONSTRUCT SILT FENCE AROUND TOPSOIL STOCKPILE.

ALL FILLS SHALL BE PLACED AND COMPACTED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.

DISTURBED AREAS SHALL BE SEEDED WITHIN 72 HOURS FOLLOWING FINISHED GRADING.

AT NO TIME SHALL ANY DISTURBED AREA REMAIN UNSTABILIZED FOR LONGER THAN 72 HOURS. ALL AREAS WHERE CONSTRUCTION IS NOT COMPLETE WITHIN THIRTY DAYS OF THE INITIAL DISTURBANCE SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION.

INSTALLATION PROCEDURES OF EROSION AND SEDIMENT CONTROLS:

A. VEGETATIVE PRACTICE

FOR PERMANENT MEASURES AND PLANTINGS FROM EARLY SPRING TO SEPTEMBER 30:

LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF 2 TONS PER ACRE.

FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 500 POUNDS PER ACRE OF 10-20-20 FERTILIZER.

SEED SHALL BE SOWN AT THE RATES SHOWN IN THE TABLE BELOW. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AT A RATE OF 1.5 TO 2 TONS PER ACRE, AND SHALL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE EROSION AND SEDIMENT CONTROL HANDBOOK.

THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED SHALL BE RESEDED, AND ALL NOXIOUS WEEDS REMOVED.

A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE:

GENERAL COVER	SEEDING RATE
CREeping RED FESCUE	100 LBS/ACRE
KENTUCKY BLUEGRASS	100 LBS/ACRE
SLOPE SEED	
(USED ON ALL SLOPES GREATER THAN OR EQUAL TO 3:1)	
CREeping RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
BIRDSFOOT TREFLOL	2 LBS/ACRE

IN NO CASE SHALL THE WEED CONTENT EXCEED ONE PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH APPLICABLE STATE AND FEDERAL SEED LAWS.

FOR TEMPORARY PROTECTION OF DISTURBED AREAS: MULCHING AND SEEDING SHALL BE APPLIED AT THE FOLLOWING RATES:

PERENNIAL RYE:	0.7 LBS/1,000 S.F.
MULCH:	1.5 TONS/ACRE

B. MULCHING

IN ORDER TO BE EFFECTIVE, MULCHING MUST BE IN PLACE PRIOR TO MAJOR STORM EVENTS. THERE ARE TWO TYPES OF STANDARDS: APPLY MULCH PRIOR TO ANY STORM EVENT:

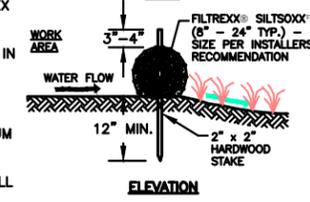
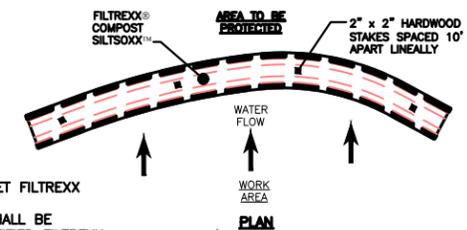
THIS IS APPLICABLE WHEN WORKING WITHIN 100 FEET OF WETLANDS. IT WILL BE NECESSARY TO CLOSELY MONITOR WEATHER FORECASTS FOR ADEQUATE WARNING TO SIGNIFICANT STORMS.

REQUIRED MULCHING WITHIN SPECIFIED TIME PERIOD: THE TIME PERIOD CAN RANGE FROM 14 TO 21 DAYS OF INACTIVITY IN AN AREA, THE LENGTH OF TIME VARYING WITH SITE CONDITIONS. JUDGEMENT SHALL BE USED TO EVALUATE THE INTERACTION OF SITE CONDITIONS AND THE POTENTIAL FOR IMPACT ON ADJACENT AREAS TO CHOOSE AN APPROPRIATE TIME RESTRICTION.

WHEN MULCH IS TO BE APPLIED TO PROVIDE PROTECTION OVER WINTER MONTHS, IT SHALL BE AT A RATE OF 6,000 POUNDS OF HAY OR STRAW PER ACRE. A TACKIFIER SHALL BE ADDED TO THE MULCH.

MAINTENANCE AND PROTECTION:

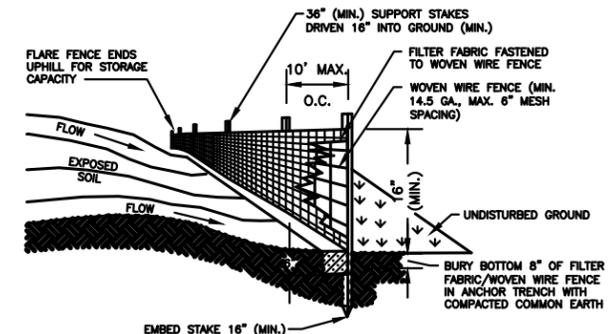
1. THE CONTRACTOR SHALL MAINTAIN ALL LOAM & SEED AREAS UNTIL FINAL ACCEPTANCE AT THE COMPLETION OF THE CONTRACT. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, REMOVAL OF STONES AND OTHER FOREIGN OBJECTS OVER 1/2 INCHES IN DIAMETER WHICH MAY APPEAR AND THE FIRST TWO (2) CUTTINGS OF GRASS NO CLOSER THEN TEN (10) DAYS APART. THE FIRST CUTTING SHALL BE ACCOMPLISHED WHEN THE GRASS IS FROM 2 1/2 TO 3 INCHES HIGH. ALL BARE AND DEAD SPOTS WHICH BECOME APPARENT SHALL BE PROPERLY PREPARED, LIMED AND FERTILIZED, AND RESEDED BY THE CONTRACTOR AT HIS EXPENSE AS MANY TIMES AS NECESSARY TO SECURE GOOD GROWTH. THE ENTIRE AREA SHALL BE MAINTAINED, WATERED AND CUT UNTIL ACCEPTANCE OF THE LAWN BY THE OWNER'S REPRESENTATIVE.
2. THE CONTRACTOR SHALL TAKE WHATEVER MEASURES ARE NECESSARY TO PROTECT THE GRASS WHILE IT IS DEVELOPING.
3. TO BE ACCEPTABLE, SEEDED AREAS SHALL CONSIST OF A UNIFORM STAND OF AT LEAST 90 PERCENT ESTABLISHED PERMANENT GRASS SPECIES, WITH UNIFORM COUNT OF AT LEAST 100 PLANTS PER SQUARE FOOT.
4. SEEDED AREAS WILL BE FERTILIZED AND RESEDED AS NECESSARY TO INSURE VEGETATIVE ESTABLISHMENT.
5. THE SWALES WILL BE CHECKED WEEKLY AND REPAIRED WHEN NECESSARY UNTIL ADEQUATE VEGETATION IS ESTABLISHED.
6. THE SILT FENCE BARRIER SHALL BE CHECKED AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
7. SILT FENCING SHALL BE REMOVED ONCE VEGETATION IS ESTABLISHED, AND DISTURBED AREAS RESULTING FROM SILT FENCE REMOVAL SHALL BE PERMANENTLY SEEDED.



SEDIMENTATION LOG
SCALE: N.T.S

NOTES:

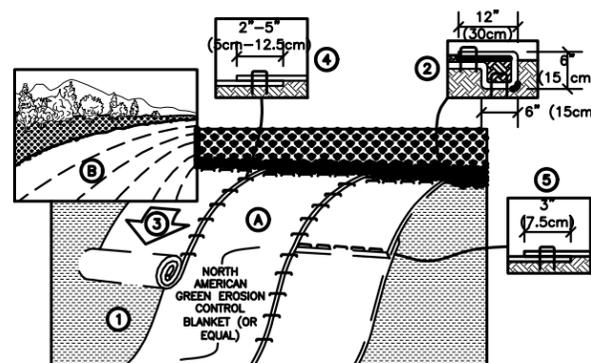
1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS.
2. FILTREXX SYSTEM SHALL BE INSTALLED BY A CERTIFIED FILTREXX INSTALLER.
3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTRATION SYSTEM IN A FUNCTIONAL CONDITION AT ALL TIMES. IT WILL BE ROUTINELY INSPECTED AND REPAIRED WHEN REQUIRED.
4. SILTXXX DEPICTED IS FOR MINIMUM SLOPES, GREATER SLOPES MAY REQUIRE ADDITIONAL PLACEMENTS. THE COMPOST FILTER MATERIAL WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.



NOTES:

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES, AS IN THE NEW HAMPSHIRE STORMWATER MANAGEMENT AND EROSION CONTROL HANDBOOK BEST MANAGEMENT PRACTICE FOR SILT FENCE.
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 6 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 12 INCHES, FOLDED, AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.
8. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
9. IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
10. SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
11. SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY, AND VEGETATED.

SILT FENCE
SCALE: N.T.S



NOTES:

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP'S), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP'S.
3. ROLL THE RECP'S (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON RECP'S TYPE.
5. CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH.

NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTH GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP'S.

SLOPE STABILIZATION BLANKET
SCALE: N.T.S

REFERENCES:
SPEC SECTION: _____
SPEC SECTION: _____
SPEC SECTION: _____
DETAIL: _____
DETAIL: _____

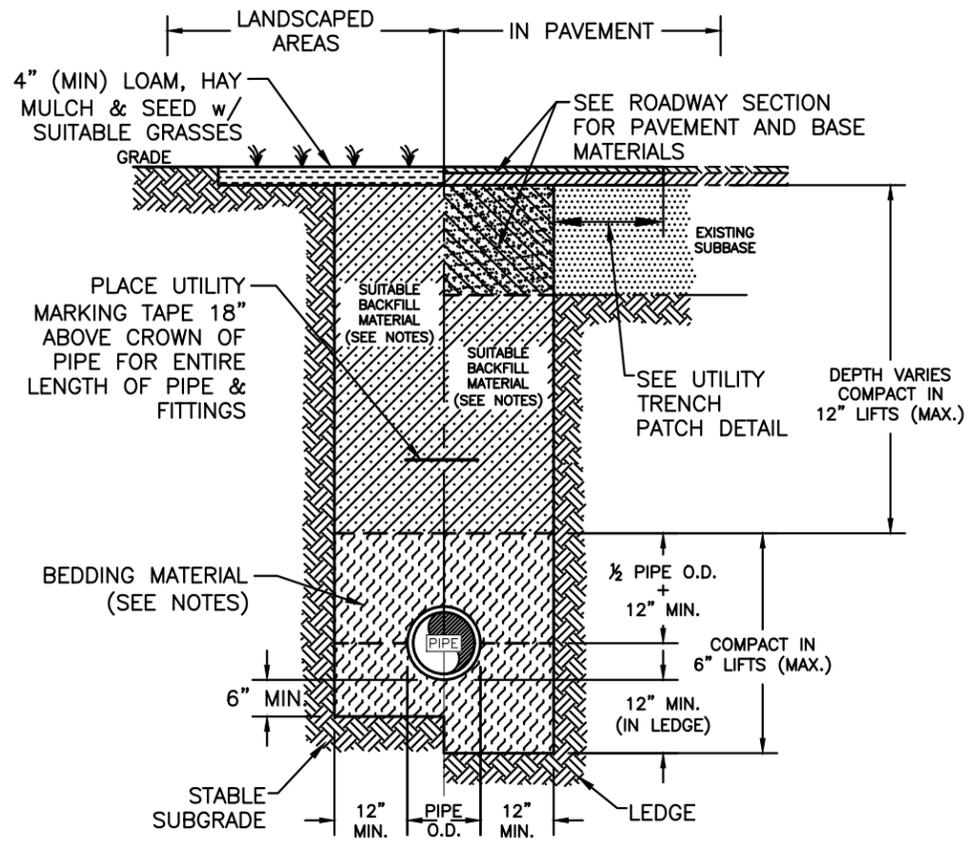
DEPARTMENT OF
PUBLIC WORKS
CITY OF PORTSMOUTH, NH
680 PEVERLY HILL ROAD
603-427-1630



DATE: OCT. 24, 2024
SCALE: AS SHOWN
PROJ. NO.: 7207
APVD BY: MRB

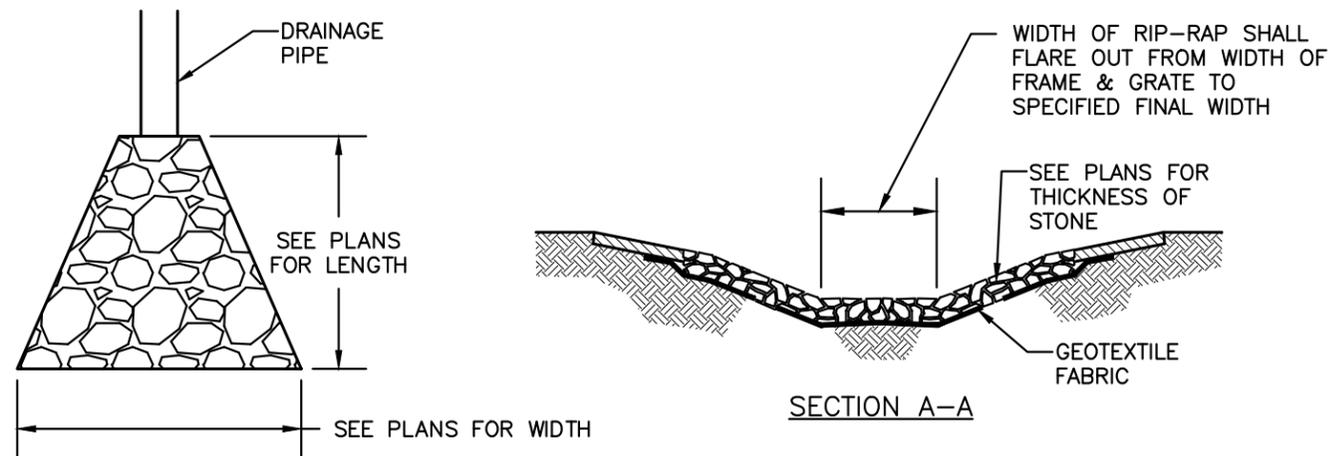
PROJECT: WHIDDEN STREET
DRAINAGE IMPROVEMENTS
TITLE: EROSION AND SEDIMENT
CONTROL PLAN

SHEET: C-300



- NOTES:**
1. DRAIN AND SEWER PIPE SHALL HAVE CRUSHED STONE (NHDOT 304.4) BEDDING FOR FULL WIDTH OF TRENCH UP TO 12" ABOVE TOP OF PIPE. SAND SHALL NOT BE DIRECTLY PLACED ON CRUSHED STONE. IN THE EVENT FINELY GRADED BACKFILL OR SAND IS USED ABOVE STONE, GEOTEXTILE FABRIC SHALL BE PLACED TO SEPARATE.
 2. WATER PIPE SHALL HAVE SAND (NHDOT 304.1) BEDDING FOR FULL WIDTH OF TRENCH UP TO 12" ABOVE TOP OF PIPE.
 3. BEDDING, FABRIC, AND COVER MATERIAL FOR ALL PIPE IS SUBSIDIARY TO THE PIPE PAY ITEM.
 4. SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIALS DEEMED TO BE UNACCEPTABLE BY THE ENGINEER.
 5. DEPTH OF COVER SHALL BE:
 WATER - 5' MIN. & 7' MAX. (<5' REQ. RIGID INS.)
 SEWER - AS INDICATED ON PLANS (<6' REQ. RIGID INS.)
 DRAIN - AS INDICATED ON PLANS (<3' REQ. RIGID INS.)
 6. WATER MAIN SHALL BE POLY WRAPPED AND HAVE THREE BRASS WEDGES AT ALL NON MECHANICAL CONNECTIONS.
 7. ALL PIPES GREATER THAN 12" DIA. WITH STONE BEDDING, BEDDING SHALL BE WRAPPED IN GEOTEXTILE FABRIC. GEOTEXTILE FABRIC SHALL BE MIRAFI 140N OR APPROVED EQUAL. FABRIC SHALL BE WRAPPED COMPLETELY AROUND STONE w/12" (MIN) OVERLAP AT SEAMS.

UTILITY TRENCH
SCALE: N.T.S



PLAN VIEW

- NOTES:**
1. GEOTEXTILE FABRIC SHALL BE ADS 601 OR APPROVED EQUAL. SEAMS IN FABRIC SHALL BE OVERLAPPED A MINIMUM OF 12".
 2. RIP-RAP STONE SHALL 6"-MINUS, WELL GRADED MIX OF ANGULAR OR SUBANGULAR STONES. FLAT STONES WILL NOT BE ALLOWED.
 3. GEOTEXTILE FABRIC SHALL BE PROTECTED FROM PUNCTURES OR TEARING DURING PLACEMENT OF RIP-RAP ROCK BY PLACING CUSHION OF SAND OR FINE GRAVEL OVER THE FABRIC.
 4. TEARS OR PUNCTURES SHALL BE REPAIRED PRIOR TO CONTINUING WITH INSTALLATION OF ROCK.
 5. SEE UTILITY PLANS FOR LOCATIONS OF RIP-RAP APRONS.

RIP-RAP APRON
SCALE: N.T.S

REFERENCES:
 SPEC SECTION: _____
 SPEC SECTION: _____
 SPEC SECTION: _____
 DETAIL: _____
 DETAIL: _____

DEPARTMENT OF
 PUBLIC WORKS
 CITY OF PORTSMOUTH, NH
 680 PEVERLY HILL ROAD
 603-427-1630



DATE: OCT. 24, 2024
 SCALE: AS SHOWN
 PROJ. NO.: 7207
 APVD BY: MRB

PROJECT: WHIDDEN STREET
 DRAINAGE IMPROVEMENTS

TITLE: DETAIL SHEET

SHEET: C-400

Whidden Street

Shoreland Permit Application – Photo Log July 31st, 2024

Whidden Street



Photo 1 - Whidden Street (looking South towards South Mill Pond)



Photo 2 – Looking South towards South Mill Pond



Photo 3 – Looking South towards South Mill Pond



Photo 4 – Looking South towards South Mill Pond



Photo 5 - Looking South towards South Mill Pond



Photo 6 - Looking North towards Pleasant Street



Photo 7 – Looking North towards Pleasant Street



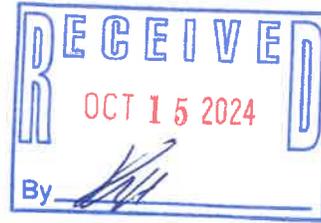
Photo 8 – Looking North towards Pleasant Street



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner



October 7, 2024

HPIII Boston Portsmouth, LLC
Attn: Lori Kraemer
1400 N. Water Street, Suite 500
Milwaukee, Wisconsin 53202
(via email: Lkraemer@hammes.com)

Re: Atlantic Orthopaedics – Parking Expansion
1900 Lafayette Road
Tax Map 267, Lot 8, Portsmouth, NH

Permit: AoT-2686

Dear Applicant:

Based upon the plans and application, approved on October 7, 2024, we are hereby issuing RSA 485-A:17 Alteration of Terrain Permit AoT-2686. The permit is subject to the following conditions:

PROJECT SPECIFIC CONDITIONS:

1. Plans by TFMoran, Inc., entitled “Atlantic Orthopaedics, Parking Expansion”, dated January 24, 2024, latest revisions dated August 7, 2024, and supporting documentation in the permit file are a part of this approval. The project must be constructed as shown on the approved plans.
2. **This permit expires on October 7, 2029.** No earth moving activities shall occur on the project after this expiration date unless the permit has been extended by the Department. If an extension is required, the request must be received by the department before the permit expires. The Amendment Request form is available at: <https://www.des.nh.gov/land/land-development>.

GENERAL CONDITIONS:

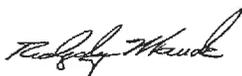
1. Activities shall not cause or contribute to any violations of the surface water quality standards established in Administrative Rule Env-Wq 1700.
2. You must submit revised plans for permit amendment prior to any changes in construction details or sequences. You must notify the Department in writing within ten days of a change in ownership.
3. You must notify the Department in writing prior to the start of construction and upon completion of construction. Forms can be submitted electronically at: <https://www.des.nh.gov/land/land-development>. Paper forms are available at the referenced web address.
4. **Upon completion of construction, a written notice signed by the permit holder and a qualified engineer shall be submitted to the Department, in accordance with Env-Wq 1503.21(c)(1), stating that the project was completed in accordance with the approved plans and specifications.** If deviations were made, the permit holder shall review the requirements in Env-Wq 1503.21(c)(2).
5. **All stormwater practices shall be inspected and maintained in accordance with Env-Wq 1507.07 and the project Inspection and Maintenance (I&M) Plan.** All record keeping required by the I&M Plan shall be maintained by the identified responsible party and be made available to the department upon request.
6. This permit does not relieve the applicant from the obligation to obtain other local, state or federal permits that may be required (e.g., from US EPA, US Army Corps of Engineers, etc.). Projects disturbing over 1 acre may

require a federal stormwater permit from EPA. Information regarding this permitting process can be obtained at: <https://www.epa.gov/npdes/2022-construction-general-permit-cgp>

7. If applicable, no activity shall occur in wetland areas until a Wetlands Permit is obtained from the Department. Issuance of this permit does not obligate the Department to approve a Wetlands Permit for this project.

8. This project has been screened for potential impact to known occurrences of protected species and exemplary natural communities in the immediate area. Since many areas have never been surveyed, or only cursory surveys have been performed, unidentified sensitive species or communities may be present. This permit does not absolve the permittee from due diligence in regard to state, local or federal laws regarding such communities or species. This permit does not authorize in any way the take of threatened or endangered species, as defined by RSA 212-A:2, or of any protected species or exemplary natural communities, as defined in RSA 217-A:3.

Sincerely,



Ridgely Mauck, P.E.
Alteration of Terrain Bureau

cc: Portsmouth Planning Board ✓

ec: TFMoran, Inc.



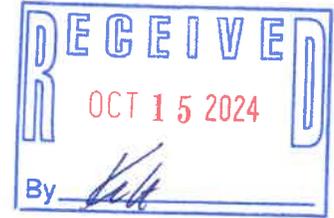
The State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner



October 09, 2024

City of Portsmouth
C/o Peter Rice, Public Works Director
680 Peverly Hill Rd
Portsmouth NH 03801



Re: Letter of Compliance
Land Resources Management File Number: 2024-01127
Subject Property: 99 Pierce Island Road, Portsmouth, Tax Map #208, Lot #1

Dear Mr. Rice:

On August 1, 2024, personnel from the New Hampshire Department of Environmental Services (NHDES) Land Resources Management Program (LRMP) received a monitoring report for the above-referenced property (Property). On October 9, 2024, personnel from NHDES LRMP conducted an inspection at the above-referenced Property. The purpose of the inspection was to determine compliance with RSA 482-A, Fill and Dredge in Wetlands; RSA 483-B, Shoreland Water Quality Protection Act; and applicable rules, specifically, whether the observations noted in the letter issued to you on April 29, 2024 have been addressed.

As a result of reviewing the monitoring report and subsequent inspection, NHDES determined the observations described in the letter were addressed. NHDES is therefore closing enforcement file 2024-01127. However, NHDES reserves the right to reopen this matter should information be received regarding additional violations on the Property.

Please be advised further work in the protected shoreland, wetlands, waters of the state, the upland tidal buffer zone, the bank, flat, sand dune, or in other RSA 482-A, RSA 483-B, and RSA 485-A:17 jurisdictional areas typically requires a posted, approved permit prior to carrying out such work.

Thank you for your assistance in bringing this matter to a resolution. Should you have any questions, please contact the Land Resources Management Program at (603) 271-2147.

Sincerely,

David Price
East Region Supervisor
Land Resources Management Program
Water Division

Copied: Portsmouth Conservation Commission
Portsmouth Planning Department
Earle Chase, CWS

www.des.nh.gov

29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095
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 State of New Hampshire
Department of Environmental Services

Robert R. Scott, Commissioner



October 09, 2024

City of Portsmouth
C/o Peter Rice, Public Works Director
680 Peverly Hill Rd
Portsmouth NH 03801



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New Hampshire Association of Conservation Commissions

SERVING NEW HAMPSHIRE'S COMMUNITIES SINCE 1970
54 Portsmouth Street, Concord, NH 03301 | (603) 224-7867 | www.nhacc.org

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Barbara Richter
Executive Director

Linda Griebisch
Administrator

October 1, 2024

Dear Portsmouth Conservation Commission,



New Hampshire Association of Conservation Commissions (NHACC) works to ensure that all conservation commissions remain strong and relevant within their communities, making NH a healthy, desirable place to live and work. We understand how important our local conservation commissions are in protecting natural resources. We need your conservation commission to renew your NHACC membership so we can continue to provide technical assistance and strong leadership.

Your annual dues provide so much more than simply access to expert advice. **Your support of NHACC helps build a stronger NH conservation community.** We work diligently to make sure your voice is heard in the state legislature and on state-wide commissions; providing strength in unity. Please renew your NHACC membership for 2025 to help us provide education and advocacy to our members.

Last year your dues helped NHACC host field training programs on wetlands ecology and conservation easement monitoring for our members. With your support we tracked state legislation, providing testimony on bills impacting natural resources and legislative updates to our members. We presented another online Lunch & Learn series making our programs more accessible to our members. We collaborated on Wildlife Webinars with the *Taking Action for Wildlife* team; NHACC, UNH Extension, and NH Fish & Game.

Remember, the benefits of membership include:

- Discounted rate at our **Annual Conference to be held on November 2nd**;
- Access to the NHACC Members Resource Library on our website;
- Educational opportunities focused on what matters to our members: wetland permit review, land management, and wildlife habitat protection;
- Networking opportunities including roundtables, hikes, and potluck gatherings;
- Up-to-date publications from our E-newsletter and Legislative Updates.

Don't miss out on this opportunity to be part of a connected conservation community: renew your membership for 2025. Feel free to contact me at Barbara@NHACC.org or call 224-7867 if you have any questions or need assistance. We look forward to working with you again this year.

Sincerely,

Barbara Richter, Executive Director