REGULAR MEETING
CONSERVATION COMMISSION

1 JUNKINS AVENUE
PORTSMOUTH, NEW HAMPSHIRE
EILEEN DONDERO FOLEY COUNCIL CHAMBERS

4:00 P.M. **August 12, 2026**

AGENDA

I. APPROVAL OF MINUTES

1. July 8, 2026

II. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (OLD BUSINESS)

1. E194 Utility Right-of-Way
   Assessor's Map 239 Lot 18, Map 239 Lot 16, Map 238 Lot 20, Map 237 Lot 56, Map 236 Lot 34, Map 240 Lot 2-1, Map 240 Lot 2-2001, Map 240 Lot 3 and Map 240 Lot 3
   Public Service of New Hampshire d/b/a Eversource Energy, Owner
   LU-26-90

III. WETLAND CONDITIONAL USE PERMIT APPLICATIONS (NEW BUSINESS)

1. Peverly Hill Road Side Path Project
   City R.O.W. and Assessor's Map 243 Lots 52 and 53, Map 242 Lots 3 and 4, Map 244 Lots 10-A and 10-B, Map 235 Lot 7 and Map 255 Lot 2
   City of Portsmouth, Applicant
   LU-26-104

2. 124 Heritage Avenue
   Assessor's Map 284 Lot 8
   124 Group Inc, Owner
   LU-26-61

3. 224 Cate Street
   Assessor's Map 173 Lot 3
   Rezma Shrestha & Mark Esposito, Owners
   LU-26-106

4. 579 Sagamore Avenue
   Assessor's Map 223 Lot 30
   Tidewatch Condominium Association, Owner

LU-26-103

IV. STATE WETLAND BUREAU APPLICATIONS (OLD BUSINESS)

1. Dredge and Fill – Major Impact
   550 Peverly Hill Road
   City R.O.W. and Assessor's Map 243 Lots 52 and 53, Map 242 Lots 3 and 4, Map 244 Lots 10-A and 10-B, Map 235 Lot 7 and Map 255 Lot 2

V. STATE WETLAND BUREAU APPLICATIONS (NEW BUSINESS)

1. Dredge and Fill – Major Impact
   124 Heritage Avenue
   Assessor's Map 284 Lot 8
   124 Group Inc, Owner

1. Dredge and Fill – Minimum Expedited Impact
   400 Little Harbor Road
   Assessor's Map 203 Lot 8
   Society for the Protection of New Hampshire Forests, Owner

VI. OTHER BUSINESS

1. Capital Improvement Plan - Requests

VII. 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__V1DtApGT1WvaW-k3CUJhg

CITY OF PORTSMOUTH, NEW HAMPSHIRE
CONSERVATION COMMISSION

MEETING MINUTES
WEDNESDAY, JULY 8, 2026, 4 pm
City Hall Council Chambers, 1 Junkins Ave., Portsmouth

For the Zoom recording:
https://www.youtube.com/live/rbPysCN_U7A?si=o4_IbtXK4W2qZ7dT

Meeting called to order at 4 pm. Roll Call:

MEMBERS PRESENT: Chair Samantha Collins; Vice Chair Barbara McMillan, Lynn Vaccaro, Alice Carey, Brian Gibb. Via Zoom: Jessica Blasko

MEMBERS ABSENT: Talia Sperduto, Oliver Chag, Stewart Sheppard

STAFF PRESENT: Kate Homet; Environmental Planner

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1. **[04:40] Draft Minutes from the June 10, 2026 meeting**

   On a motion by Gibb seconded by McMillan the Commission voted to approve the June 10, 2026 minutes with Carey abstaining as she was absent from that meeting.

2. **[05:43] New Business: Wetland Conditional Use Permit & State Wetland Bureau Application**

   124 Heritage Avenue
   Assessor's Map 284 Lot 8
   124 Group Inc, Owner
   LU-26-61

   On a motion by Carey, seconded by Vaccaro, Commission voted to approve the request to postpone the CUP and State Wetland permit application until the August meeting.

[6:20] New Business: Wetland Conditional Use Permit

E94 Utility Right-of-Way
Assessor's Map 239 Lot 18, Map 239 Lot 16, Map 238 Lot 20, Map 237 Lot 56, Map 236 Lot 34, Map 240 Lot 2-1, Map 240 Lot 2-2001, Map 240 Lot 3 and Map 240
Lot 3 Public Service of New Hampshire d/b/a Eversource Energy, Owner
LU-26-90

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Sherrie Trefry, VHB representing Eversource discussed the project for proposed utility maintenance on the existing 115kV E194 Transmission Line in Portsmouth within Eversource property or Eversource-held easements and as part of Eversource's ongoing maintenance program conducted to ensure reliable electric service for their customers. The project involves both temporary and permanent impacts within the 100' wetland buffer and temporary impacts to wetlands. The location is along Rte 16 and Liberty Mutual and Portsmouth Regional Hospital parking lots.

This work:

- Replaces 12 wood structures (15, 16, 18, 21, 22, 23, 24, 26, 37, 38, 39, and 40) with new weathered steel structures in the same configuration.
- Commences by fall 2026.
- Is located within vegetated and commercially developed areas of the E194 ROW.
- Access to the ROW will be from established roadways that intersect the ROW or commercial parking lots that occur within the ROW.
- Installs the replacement structures within 5 to 10 feet ahead or behind the existing structure footprint.
- Increases the height of the structures 5-20 feet to gain compliance with current regulatory standards, meet safety clearance requirements, accommodate the site topography, and minimize environmental impacts.

VHB Wetland Scientists surveyed for and delineated jurisdictional resource areas in August of 2025. Resources delineated within the project area included multiple wetlands and a small section of an ephemeral stream. VHB has consulted with New Hampshire Fish and Game, and the Natural Heritage Bureau for rare, threatened, and endangered species on behalf of Eversource. The project will work with time constraints and care taken not to obstruct winter nesting sites for turtles. Project does not rise to the level of needing an alteration of terrain permit. Waiting to file statutory notices until August to allow for a full year of work and restoration before the permit expires.

Prior to accessing work sites with construction equipment, crews will install wildlife friendly erosion and sediment control barriers. The upland terrain includes the City 100' wetland buffer.

- 100 x 100 gravel pads on upland terrain and 4' x 16' sections of timber matting in wetlands;
- Access routes are proposed as 16' wide permanent gravel roadways in uplands and timber matting in the wetlands;
- The upland impacts proposed within wetland buffers will be reduced to 60' x 35' permanent gravel pads and both these and the roadways will remain to allow for future access to facilitate maintenance or repairs and are expected to revegetate;

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- Erosion control will be implemented in the vicinity of wetlands;
- All excavated spoils will be spread within an upland area of the project ROW or trucked off-site and properly disposed of.

Commission discussion
[15:25- 18:38] Collins: Any other examples of an Eversource gravel road within the wetland buffer to see how they revegetate?
Ashley Nicole, Eversource: Yes. Replacement near Portsmouth Ford defined in after-the-fact permit, following the rerouting of a CUP path that originally crossed a wetland. Can provide a list.
18:45-20:45 McMillan asked how often the structures need to be maintained and other justification for the permanent access.
Nicole: Primarily there in case of emergency but also maintenance.
[20:47- 24:34] Size of gravel and moving of topsoil.
Topsoil removed for the 100x100 pads is then reused when reducing the size to 60x30 and on the sides of the roadway. BMPs applied to be aware of invasives, cleaning the mats and otherwise minimizing potential for spreading, including in the buffer although not required.
[24:40- 26:35] Carey asked about limiting access to the wetlands via the new roadways. Eversource asks underlying landowners to monitor for trespassers and place boulders or gates to limit access without preventing emergency access. They modified the plan to eliminate one access point.
26:40 – Collins asked about using removed soil to top dress the gravel.
Yes, that could be considered in this project.
[29:10- 32:26] Vaccaro refers to City memo suggesting that Eversource do what it can to avoid permanent impacts to the wetland buffer zone. Recognize 25' limit and use the timber matting instead of gravel in those areas?
Eversource prefers to leave the road to avoid redoing it when needed. Also pulls the roadway back 15' from wetlands to avoid impact. Could accommodate the 25' limit but not the 'no cut' as clearing is needed regularly for maintenance.
[33:00-33:27] Hamet noted no impact sheet in packet for timber matting or gravel as well as maintenance required. Eversource to provide.
[33:45- Macmillan made a motion to approve CUP for E94 with several conditions due to the project's significant impacts:

- Include detail sheet
- Use timber matting within 25' of wetlands instead of gravel
- Use removed soils to cover the gravel
- Monitor and remove invasives in upland as well as wetlands for a 2 year period with report on maintenance to the City staff.

Seconded by Carey. Discussion about limiting the number of gravel sections.
[38:30-43:15] Gibb asked if this approval could be a template along with any insights from similar prior projects elsewhere to be consistent and best practice for the whole series of anticipated other projects. Coming back with timber mats multiple times might be as bad as the one permanent impact. Homet noted that emergency access is infrequent and does not have to mean permanent access. Gibb suggested Eversource take time to go back to consider options to produce a well-documented response that also reflects best practice to them rather than listing stipulations. That would expedite future similar reviews. Blasko agreed and asked Eversource to consider options for the least long term impact.

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[44:52-46:40] McMillan withdrew her original motion, concurred by Carey, and made a new motion to postpone approval of the CUP until the August meeting to provide time for Eversource to provide the technical details discussed. Seconded by Gibb. Carey requested additional explanation for the location of the road. Roll call vote was unanimous to postpone.

3. [46:55] STATE WETLAND BUREAU APPLICATIONS (OLD BUSINESS)

Dredge and Fill – Major Impact
550 Peverly Hill Road
City R.O.W. & Multiple Private Lots (see application for full list)

[46:55-52:04] Brian Colburn, McFarland Johnson consulting engineer for the City on this project and Christine Perron wetland scientist spoke to the impacts in this project to improve a critical link in the City's multimodal access. Majority of the work between Middle and Banfield Road.

- 10' shared use path to west of Peverly Hill and 6' sidewalk to the east between Middle and West with a 24' wide roadway.
- New curbing along the entire length.
- Increasing impervious pavement from 5 acres to 6.15 acres.
- To mitigate increased flow and provide stormwater treatment, proposing 2 formal stormwater treatment structures: a 2.64 acre gravel wetland behind YMCA/Tai Kwan Do which pulls the gravel a bit more out of the buffer, and 0.388 acre underground infiltration chamber in the DPW parking lot. Plus sediment basins: 1.2 acres near Moffatt Rd. and 1.6 acres at Banfield Rd. Consolidated BMP. Stormwater treatment wherever gravity allows.

[52:15-56:25] Wetland

- No stream or tidal wetlands impact but wetland impact on two prime wetlands to the west and east of Peverly Hill road and tidal buffer impact on 67 sf. Impact to west;
- Applied to DES for waiver impact on 100' buffer issue for work in the existing roadway; 39 sf impact at edge of roadway
- Tidal buffer on east impact Sagamore Creek system. – within 100' buffer 9500 sf BMP at gravel at YMCA
- Tidal buffer zone remains vegetated so applied for DES waiver of mitigation rules;
- Presence of Blandings turtles so implementing construction BMPs

Commission Discussion:

[56:30 Collins asked about original submission. The applicants held off on attending a previous Commission meeting due to a delay from the State. Discussion of context for area (Sheet 10)

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59:20- 1:02:40] McMillan asked about cutting trees and controlling invasives. Christine – can provide tree plan.
Will access BMP construction via 10-15' wide trench for drainage pipe and from TaiKwanDo parking area. Most outside 100' buffer. Balancing maximum stormwater drainage by gravity and 100' impact.

[1:02:42-1:03:38] Are there alternative options? Applicant mentioned Greenleaf Avenue but that location is also in the buffer. Area around the stream is steep and not conducive to drainage.

[1:03:45- 1:04:44] Carey asked why project is so big – is it addressing other stormwater drainage? Includes the whole roadway and invokes MS4 rules apply, alteration of terrain permit – treats where there is no formal stormwater treatment at the moment.

[1:05:00- 1:09:47] Colins asked about road/side path/sidewalk configuration, widening from 24' to 44'. Applicant stated that the sidepath side has a 4' strip of grass and tree plantings between to separate the path and the roadway. Design options presented during public necessity hearings posted on City project page. Peverly Hill Road Complete Streets Project | City of Portsmouth

[1:07:49- 1:11:40] Collins asked for a comparison of existing impacts of the road and shoulder on the 100' buffer and wetland compared to the new plan. McMillan asked about the Conditional Use Permit and submitting both before the August meeting deadline.

[1:11:42- 1:12:27] Collins proposed a site walk of the proposed gravel feature. Suggestion that Eric Eby, project manager arrange, accompanied by consultant. Aug 5.

[1:12:30- 1:18:44] Collins asked which large trees will be cut for sidepath, asked to add buffer line on all plans (CUP will have) – relative to treeline, intersection at YMCA? Footprint not extended by culvert that carries stream under Peverly at Banfield. Will outfall to right of YMCA affect the stream? Vegetative and fertilizer/maintenance plan. Project timeline is to advertise bid Oct-Nov, tree clearing over the winter.

[1:19:17- McMillan made a motion to postpone approval of the application for 550 Peverly Hill Road, invoking the 40-day delay, until the August meeting when the Commission would be considering a vote on the CUP. Collins would like to review with questions at the CUP level. Carey seconded in order to look at the whole project in one piece, with the 100' buffer marked more clearly. Feels the BMP behind YMCA is problematic. McMillan would like to hear more about the stormwater flow and treatment considerations in making the choices. Gibb asked that Homet detail the requests in an email. On a roll call vote the Commission voted unanimously to postpone.

Other Business

- [1:23:50] **224 Cate Street** required to submit two monitoring reports showing reconstruction work in the buffer. First report submitted by new owner who plans to submit the second later this fall.

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- [1:25:27-2:06:22] **Wetlands Ordinance Article 10 review.** Discussion about page 11 and the cutting table. Planning Board chair plans to bring his comments to the Planning Board for discussion this month and then potentially combining the two edited documents. Discussion about expanding the vegetative buffer. Decision to leave the no cut and presented by the original working group. Homet noted Portsmouth has some of the strictest limits in the state. Gibb commented that going to 50' limited cut seems an overreach – people are working with city to get to 25'. Commission decided to keep the 'no cut' buffer at 0-25' to 0-50' and adjust the limited cut at 50-100'. City should consider mapping vernal pools.
- #(3) tree-cutting edit as noted
- Wetland buffer markers – exceptions if other signage is used – or in a developed area. Confusion that the markers are educational not disciplinary in nature.
- 10.1018.50 Recommended changing heading to include salt storage: snow storage and covered salt storage be located outside the 50' buffer or be removed offsite.
- Vaccaro suggested noting the dates of Ordinance edits, noting original dates and then once adopted by Council. Homet suggested adding a comment on the side for future discussion.
- [2:05:41] Vaccaro made a motion to approve the draft edits identified by the Commission and recommended for submission to the Planning Board. Seconded by Carey.

Homet suggested dates for joint Planning Board and Conservation Commission work session noting the easiest to schedule is a Thursday, 6-7 pm – the hour before the Planning Board meeting. Recommended having Planning Board discuss their edits and then schedule joint session.

The meeting adjourned at 6:08 pm.

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Memo

TO: Conservation Commission Members
FROM: Kate Homet, Environmental Planner/Sustainability Coordinator
DATE: August 6, 2026
SUBJ: August 12, 2026 Conservation Commission Meeting

E194 Utility Right-of-Way
Assessor's Map 239 Lot 18, Map 239 Lot 16, Map 238 Lot 20, Map 237 Lot 56, Map 236 Lot 34, Map 240 Lot 2-1, Map 240 Lot 2-2001, Map 240 Lot 3 and Map 240 Lot 3
Public Service of New Hampshire d/b/a Eversource Energy, Owner
LU-26-90

This is a utility structure maintenance project with work throughout the Portsmouth transmission corridor on the existing E194 transmission line. The purpose of this work is to replace 12 existing wood utility pole structures with steel to increase the long-term viability of the lines. The proposed steel poles will be approximately 5-10' higher than the existing wooden poles. Work in the Right-of-Way is proposed in vegetated areas along with commercially-developed sites. This project proposes 45,531 s.f. of temporary wetland buffer impacts and 37,390 s.f. of temporary wetland impacts for equipment access, work pad placement and to facilitate maintenance and repairs.

According to *Article 10 Section 10.1017.650* the applicant must satisfy the following conditions for approval of this utility project.

1. The proposed project is in the public interest.

The project is necessary to maintain existing corridor powerlines with upgraded support poles.

2. Design, construction, and maintenance methods will utilize best management practices to minimize any detrimental impact of such use upon the wetland and will include restoration of the site as nearly as possible to its original grade condition and vegetated state.

The applicant has stated that wooden timber matting will be used to minimize the soil disturbance of wetlands and sensitive areas. Applicant has committed to temporary impacts only and will no longer be utilizing permanent gravel roadways, as previously proposed.

3. No alternative feasible route exists which does not cross or alter a wetland or have a less detrimental impact on a wetland.

The applicant appears to have chosen the routes with the least amount of impact to access the replacement poles.

4. Alterations of natural vegetation or managed woodland will occur only to the extent necessary to achieve construction goals.

The majority of vegetation is expected to return to its original configuration after the timber mats are removed.

Recommendation: Staff recommends **approval** of this application to the Planning Board with the following stipulation:

1. In accordance with Section 10.1018.40 of the Zoning Ordinance, applicant shall permanently install wetland boundary markers, which may be purchased through the City of Portsmouth Planning & Sustainability Department. It is recommended that markers be permanently installed at the entrance of each temporary roadway access point that leads into a wetland and/or wetland buffer. Applicant shall show the proposed locations for these markers on the final plan set.

124 Heritage Avenue
Assessor's Map 284 Lot 8
124 Group Inc, Owner
LU-26-61

This application is for the construction of a new garden area within the 100' wetland buffer and a prime wetland buffer. This project includes the construction of a new garden area with raised beds, the installation of an ADA accessible ramp, stormwater conveyance modifications, lighting and landscaping. Overall, this project proposes an increase of approximately 498 s.f. of impervious surface within the wetland buffer due to the new ramp.

1. *The land is reasonably suited to the use activity or alteration.*

   The land proposed for the new garden beds and associated site improvements is an existing lawn with stormwater infrastructure. The land is currently across a street and a driveway from the wetland resources and has drainage conveyances through existing underground systems. The proposed use is an increase in landscaping and gardening along with a slight increase in impervious surfaces – this should increase foot traffic in the area but drainage improvements will help to protect what is running downstream to the wetlands.

2. *There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.*

   This property is mostly impervious due to its industrial uses and this is the only location on site that has the proper conditions suitable to gardening and an outdoor classroom. The majority of this project's impacts are temporary to the wetland buffer with the exception of the new ADA accessible ramp, the installation of a new mounted sign, riprap apron and riprap dissipation area, and the addition of new granite curbing.

3. *There will be no adverse impact on the wetland functional values of the site or surrounding properties.*

   It appears that this site has stormwater drainage flowing through it that connects to the wetland adjacent as well as the prime wetland across the street. This will be restored as a grass-lined swale as part of this project and the addition of native shrubs and seed mixes should help to filter any runoff on this site hat previously traveled across the existing lawn.

4. *Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.*

   This project appears to be altering an existing grass lawn area and the disturbed project area is proposed to be seeded with native seed mixes and planted with native shrubs to help improve the vegetation within this section of the wetland buffer.

5. *The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.*

   This proposal does include an increase in impervious surfaces to the wetland buffer but the inclusion of native plantings, seed mixes, and improvements to the existing stormwater system draining to the wetland should help to limit any adverse impacts from this construction.

6. *Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.*

This application does not propose impacts within the 25’ vegetated buffer strip.

Recommendation: Staff recommends **approval** of this application to the Planning Board with the following stipulation:

1. In lieu of the requirements of Section 10.1018.40 of the Zoning Ordinance to permanently install wetland boundary markers, applicant shall install an educational sign in the new garden area or area of the swale describing the sensitivity of the adjacent wetlands and the importance of the filtration of stormwater runoff into the revived grassed-swale.

Peverly Hill Side Path Project
City R.O.W. and Assessor's Map 243 Lots 52 and 53, Map 242 Lots 3 and 4, Map 244 Lots 10-A and 10-B, Map 235 Lot 7 and Map 255 Lot 2
City of Portsmouth, Applicant
LU-26-104

This application is for the reconstruction of an approximately 1-mile section of Peverly Hill Road between West Road and Middle Road (NH Route 33). This project consists of improving drainage infrastructure, improving and curbing existing travel lanes, and installing a sidewalk and multi-use path for alternative modes of transportation. This work is to take place within the City's R.O.W. as well as a handful of private properties. On private properties, this project is proposing 970 s.f. of permanent wetland impacts, 2,488 s.f. of temporary wetland impacts, 21,419 s.f. of permanent wetland buffer impacts and 7,294 s.f. of temporary wetland buffer impacts. Please note, City R.O.W. improvements are exempt from a wetland conditional use permit under Article 10.1016.10 (2) of the City of Portsmouth Zoning Ordinance.

1. *The land is reasonably suited to the use activity or alteration.*

   This area of roadway does not have existing stormwater treatment and has wetlands on both sides of the road. This project proposes capturing that stormwater and allowing it to infiltrate through two sediment basins and a large gravel wetland that will consist of a mix of gravel and wetland plantings, allowing for filtration and a slow release into the prime wetland system of Sagamore Creek.

2. *There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.*

   This project aims to improve public safety and increase alternative modes of transportation (encouraging walking and cycling) in this part of Portsmouth. Other alternatives have not proven possible, and the placement of the proposed gravel wetland has been kept as far from the prime wetland edge as possible. Due to constraints such as easements and working with private property owners, the current plan is the alternative that pulls the most impacts from the wetlands and buffers along the road while allowing a public interest project to traverse through private property.

3. *There will be no adverse impact on the wetland functional values of the site or surrounding properties.*

   This project proposes a large amount of both permanent and temporary impacts within the wetland and wetland buffer. The improvements to drainage and filtration of stormwater should help improve the water quality entering the neighboring wetland systems and the reseeding of disturbed areas should help to stabilize soils. The applicant should use native wetland and wetland buffer seed mixes in all wetland and wetland buffer disturbed areas. Applicant must demonstrate if the NHDOT slope seed mix is appropriate for a NH wetland and/or wetland buffer.

4. *Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.*

   This project will be altering existing vegetation in some areas. The applicant proposes two different seed mixes to be utilized for replanting. In areas where appropriate, the applicant should consider the installation of native trees and shrubs in addition to the seed mixes.

5. *The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.*

This project proposes a large amount of both permanent and temporary impacts within the wetland and wetland buffer. The applicant is proposing that the capturing and filtration of stormwater off of Peverly Hill Road helps offset these impacts by improving the water quality of the surrounding wetland systems and buffers.

6. *Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.*

This application does not delineate the vegetated buffer strip on all sections of the roadway therefore it is difficult to interpret the direct impacts to the 25' vegetated buffer strip. Applicant should clearly delineate this and describe mitigation proposed within those areas (if applicable).

Recommendation: Staff recommends **approval** of this application to the Planning Board with the following stipulations:

1. In lieu of the requirements of Section 10.1018.40 of the Zoning Ordinance to permanently install wetland boundary markers, applicant shall install an educational sign at some point along the new stretch of the sidewalk or multi-use path with a brief description of the environmental sensitivity of the area, the neighboring prime wetland and how this transportation project improved water quality entering into these systems. As part of this signage, a City of Portsmouth Wetland Boundary Placard shall be included on the signpost for education purposes.

2. Applicant must demonstrate if the NHDOT slope seed mix is appropriate for a NH wetland and/or wetland buffer. If deemed not appropriate by the Conservation Commission, applicant shall put a note on plans to reseed roadway edges with a preferred New England wet mix.

224 Cate Street
Assessor's Map 173 Lot 3
Rezma Shrestha & Mark Esposito, Owners
LU-26-106

This application is for landscape work adjacent to Hodgson Brook which includes regrading, stormwater control, soil aeration, tree removal, soil cleanup and stabilization work and planting. The applicant is proposing to regrade and reseed approximately 250 s.f. of the wetland buffer to remove existing rutting and alleviate drainage issues. In addition, the applicant is proposing to remove dead ash trees and maple trees with weak branches and replant with a mix of native trees and shrubs. As part of this landscape work, the applicant will also be aerating their existing lawn area to help alleviate soil compaction issues.

1. *The land is reasonably suited to the use activity or alteration.*

   This wetland buffer has previously been disturbed and just recently has had an area of the buffer planted for restoration. The applicant has noted how some areas of soil on the property are unhealthy, along with some existing plants, which makes further restoration and careful landscape planning critical to maintaining a healthy wetland buffer.

2. *There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.*

   A majority of this property is within the wetland buffer of Hodgson Brook and much of the landscaped area falls within the City's 'no-cut' vegetated buffer which is 40' from the edge of the wetland in this case. This landscaping work should add additional vegetation to this vegetated buffer and further help to stabilize the bank and protect the brook.

3. *There will be no adverse impact on the wetland functional values of the site or surrounding properties.*

   This proposal hopes to increase the functional values of the site through increasing the health of the wetland buffer and soils through replanting and soil remediation work.

4. *Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.*

   Alteration of the natural vegetative state will occur through removal of trees, regrading, stormwater upgrades and soil remediation. The applicant is proposing to offset these alterations by introducing new plantings and improving soil health.

5. *The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.*

   This proposal does include areas of temporary impact from soil disruption and tree removal, but the applicant is proposing to offset those impacts through replanting and improving soil health.

6. *Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.*

   Applicant is proposing new plantings and spot repairs of existing soil within the 40' vegetated buffer strip. This should enhance the natural state of this buffer.

Recommendation: Staff recommends **approval** of this application to the Planning Board as presented.

579 Sagamore Avenue – Common Area
Assessor's Map 223 Lot 30
Tidewatch Condominium Association, Owner
LU-26-103

This application is for an after-the-fact permit to remediate the loss of a mature beech tree within the vegetated 'no-cut' wetland buffer. The applicant is proposing to introduce new plantings within three areas of the 25' buffer to help stabilize the area – this includes the planting of red maple trees, yellow birch trees and northern bayberry shrubs.

1. *The land is reasonably suited to the use activity or alteration.*

   The applicant has removed a mature tree within the 25' vegetated buffer. This activity is not allowed within this buffer area and the applicant now proposes to remediate their actions through replanting.

2. *There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.*

   This is for an after-the-fact permit to mitigate the impacts of tree removal in a restricted area. Replanting of native trees and shrubs should occur close to the wetland resource, as is proposed here, in order to strengthen the wetland buffer.

3. *There will be no adverse impact on the wetland functional values of the site or surrounding properties.*

   Any time vegetation is removed from within 25' of a wetland edge, the positive impacts of a wetland buffer could diminish. The replanting of this area will help to mitigate the adverse impacts that have already occurred.

4. *Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals.*

   The natural vegetative state has already been altered. This application proposes necessary mitigation to offset this alteration.

5. *The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this section.*

   This proposal is intending to mitigate existing adverse impacts.

6. *Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.*

   This proposal aims to mitigate the removal of an existing tree within the vegetated buffer strip through replanting.

Recommendation: Staff recommends **approval** of this application to the Planning Board with the following stipulation:

1. To prevent further unauthorized vegetation removal, the applicant shall install permanent wetland boundary markers along the 25' vegetated buffer. It is recommended that these markers be placed every 50' within the area of impact (between units 7 and 8).

City of Portsmouth, New Hampshire

Wetland Conditional Use Permit Application Checklist

This wetland conditional use permit application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Conservation Commission and Planning Board review. The checklist is required to be uploaded as part of your wetland conditional use permit application to ensure a full and complete application is submitted to the Planning and Sustainability Department and to the online portal. A pre-application conference with a member of the Planning and Sustainability Department is encouraged as additional project information may be required depending on the size and scope of the project. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all wetland conditional use permit requirements. Please refer to Article 10 of the City of Portsmouth Zoning Ordinance for full details.

Applicant Responsibilities: Applicable fees are due upon application submittal to the Planning Board (no fees are required for Conservation Commission submission). The application will be reviewed by Planning and Sustainability Department staff to determine completeness. Incomplete applications which do not provide required information for the evaluation of the proposed site development shall not be provided review by the Conservation Commission or Planning Board.

Name of Applicant: Public Service Company of NH dba Eversource Energy Date Submitted: 6/24/2026

Application # (in City's online permitting): _____

Site Address: E194 Utility Right-of-Way, Schiller Substation Map: 214 Lot: 3

☑	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
✔	Complete application form submitted via the City's web-based permitting program	Submitted electronically
✔	All application documents, plans, supporting documentation, this checklist and other materials uploaded to the application form in OpenGov in digital **Portable Document Format (PDF)**. One hard copy of all plans and materials shall be submitted to the Planning and Sustainability Department by the published deadline.	See included Conditional Use Permit Application Package

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Basic property and wetland resource information. **(10.1017.21)**	See included Conditional Use Permit Package
✔	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. **(10.1017.22)**	See included Conditional Use Permit Application Package
✔	Demonstrate impacts as they relate to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way). **(10.1017.23)**	See included Conditional Use Permit Package
✔	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. **(10.1017.24)**	See included Conditional Use Permit Application Package

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Wetland buffer enhancement plan. **(10.1017.25)**	See included Conditional Use Permit Package
☐	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. **(10.1017.26)**	Not Applicable
✔	Stormwater management must be in accordance with Best Management Practices including but not limited to: *1. New Hampshire Stormwater Manual, NHDES, current version.* *2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004.* **(10.1018.10)**	See included Conditional Use Permit Application Package
☐	Vegetated Buffer Strip slope of greater than or equal to 10%. **(10.1018.22)**	Not Applicable
✔	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. **(10.1018.23/10.1018.24/10.1018.25)**	See included Conditional Use Permit Application Package
☐	All new pavement within a wetland buffer shall be porous pavement. **(10.1018.31)**	Not Applicable
☐	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. **(10.1018.32)**	Not Applicable
☐	Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction. **(10.1018.40)**	To be discussed with the conservation commission
☑	**Requested Items for Submittal**	**Item Location (e.g. Page or Plan Sheet/Note #)**
✔	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	See included Conditional Use Permit Application Package
☐	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	NHDES Wetland Permit By Notification will be summited for this Project

Applicant's Signature: _____ **Date:** 6/24/2026

Memorandum

To: City of Portsmouth Conservation Commission
1 Junkins Avenue
Portsmouth, NH 03801

Date: August 3, 2026

Project #: 22774.00

From: Sherrie Trefry, CSS
2 Bedford Farms Drive Suite 200
Bedford, NH 03110

Re: Eversource E194 Transmission ACR Maintenance Project
City of Portsmouth Conditional Use Permit

To whom it may concern:

On behalf of the Applicant, Public Service of New Hampshire (PSNH) d/b/a Eversource Energy (Eversource), VHB is submitting this revised application for a Conditional Use Permit (CUP) for proposed utility maintenance on the existing 115kV E194 Transmission Line in Portsmouth, New Hampshire. The information provided should replace or supplement information in the original application. Changes to the application were undertaken following the July 8, 2026 Conservation Commission meeting in response to comments. This project qualifies for a Conditional Use approval as a private utility within right-of-way (ROW) in accordance with section 10.1017.60 of the zoning ordinance and is required for the proposed work to allow impacts within the wetland buffer. Contact information for the applicant and consultants is provided in the table below:

Name	Ashley Nicoletti	Sherrie Trefry	Trent Delehanty
Role	Applicant	Permitting Lead	Certified Wetland Scientist
Telephone	603-634-2992	603-391-3951	603-391-3853
E-mail	Ashley.Nicoletti@Eversource.com	STrefry@VHB.com	TDelehanty@VHB.com
Address	13 Legends Drive, Hooksett, NH 03106	2 Bedford Farms Drive, Suite 200, Bedford, NH 03110	2 Bedford Farms Drive, Suite 200, Bedford, NH 03110

During the Conservation Commission meeting that took place on July 8, 2026, the Commission continued review of the CUP until the August 12, 2026 meeting to allow Eversource to provide additional technical documentation and details. Minutes of this meeting can be found in **Attachment F: July 8, 2026 Conservation Commission Meeting Minutes**. Upon further discussion between Eversource, project contractors and VHB the decision was made to use temporary upland matting in place of gravel to eliminate the previously proposed permanent impacts to the wetland buffers. An updated set of project plans dated July 30, 2026 can be found in **Attachment A: Project Plans**.

Summary of Changes and Supporting Documentation

The following information is being provided to outline the changes between this application package, and the package uploaded and delivered on June 24, 2026.

Discussion of Plan Changes

The major revision to the **Project Plans** was to remove the proposed gravel impacts to the wetland buffers, and to depict the temporary upland matting that will be used instead to provide safe and stable access for Eversource and

Memorandum

their contractors to complete the proposed work. Another plan change includes the shift of Structure 15 to be 30 feet back along the line to provide a safe setback from a newly developed roadway.

Observed Site Changes

VHB Certified Wetland Scientist, Trent Delehanty, revisited the proposed work sites on July 1, 2026 to ensure site conditions were similar to those when initial delineation efforts were completed. Most of the site was in a similar condition as it was during the delineation effort. However, a major site change was identified around Structure 15 where a new access road to a housing development under construction replaced the parking lot that previously surrounded Structure 15. Structure 15 is now within 3 feet of an active roadway which presents safety and reliability concerns. Eversource re-engineered this span to address the new condition and proposes to move Structure 15 30 feet back along the line. Upland matting will be used to create access and a 100 x 100 ft work pad around the base of the structure to minimize impact to this newly restored area. For reference, please see **Attachment B: Photographic log** which provides documentation of the new site conditions.

Additional Supporting Documentation

Construction specifications for the gravel access and timber matting used in wetlands by Eversource have been provided in **Attachment G: Construction Specifications.**

Conditional Use Permit Documentation and Adherence to the City of Portsmouth Zoning Ordinance

The changes described above have altered the responses to the following sections:

- Section 10.1017.20(4)
- Section 10.1017.20(6), including *Table 3*
- Section 10.1017.20(8), including *Table 4*
- Section 10.1017.22(3)
- Section 10.1017.24
- Section 10.1017.25(1)
- Section 10.1017.31
- Section 10.1017.32

Section 10.1017.20: Application Requirements

Section 10.1017.21 The application shall be in a form prescribed by the Planning Board, and shall include the following information:

(1) Location and area of lot and proposed activities and uses;

Copies of the **Tax Maps** are included in **Attachment C** and a **USGS Site Location Map** is included in **Attachment D**.

Work will be conducted within Eversource property or Eversource-held easements. The Applicant does not own the underlying parcels of the 12 replacement structures that work will be conducted on but has permission to conduct

maintenance on the existing assets under the easements. Current use of the project location is Utility ROW that are underlain by commercial and industrial uses. Existing conditions, including wetlands and their buffers, are described below in the other CUP requirements. Locations of the structures to be replaced are provided directly below with their respective tax map and parcel numbers:

- Structure 15: Tax Map 239, Lot 18
- Structure 16: Tax Map 239, Lot 16
- Structure 18: Tax Map 238, Lot 20
- Structures 21-24: Tax Map 237, Lot 56
- Structure 26: Tax Map 236, Lot 34
- Structure 37: Tax Map 240, Lot 2-1
- Structure 38: Tax Map 240, Lots 2-2001 and 3
- Structures 39 and 40: Tax Map 240, Lot 3

(2) Location and area of all jurisdictional areas (vernal pool, inland wetland, tidal wetland, river or stream) on the lot and within 250 feet of the lot;

VHB Wetland Scientists surveyed for and delineated jurisdictional resource areas in August of 2025. Resources delineated within the project area included multiple wetlands and a small section of an ephemeral stream. VHB-delineated wetlands and historical wetland boundaries within the vicinity of the project are depicted on the **Project Plans** provided in **Attachment A.** A description of the methodology used is provided in **Section 10.1017.22(1)** below. A brief description of each wetland location and size is provided below in **Table 1.** No tidal wetlands, potential vernal pools, or major watercourses were identified within the proposed project area. Jurisdictional areas on abutting properties or outside of the surveyed utility ROW and Eversource owned properties were assessed using the land resource management permit planning tool (LRMPPT) and GRANITview mapper. Layers such as the National Wetlands Inventory (NWI), and Priority Resource Area (PRA) data were reviewed to assist in describing these resources. Wetlands that extend outside of the surveyed utility ROW are denoted with a "+" within **Table 1** to note that the area is larger than what is provided due to the limit of the wetland delineation to the ROW.

Table 1 Jurisdictional Wetland Summary

Wetland ID	Cowardin Classification	Plan Set Sheet	Total Size of Wetland (SF)*
W-2	PEM5/1C	2	306,642+***
W-3	PEM/PSS1C	2	18,135
W-5	PSS1C	2	11,869
W-6	PSS1C/E, PEM1C/E	2	7,134+**
W-6A	PEM1/5E	2	89,727+
W-7	PEM1C/E, PEM5E	3	71,973
W-8	PEM1C	3	54,994+
W-10	PEM1C, PEM5C/E	3	11,458
W-11	PEM5E, PEM1C, PSS1C/E	4	109,614+
W-12	PEM5E	4	121,242+
W-14	PEM1E	4	10,804+

* As stated above, the total size of the wetlands is derived from the delineations performed within the project area. Resources that extend outside of the boundary are noted with a "+" to indicate the full extent of the wetland was not quantified.

**Wetland W-6 was not fully delineated as the boundary extends outside of the ROW. It is estimated that this wetland, if fully delineated, would be greater than 10,000 SF and therefore a jurisdictional wetland.

***Wetland W-2 was not delineated in the field as no impacts were anticipated to the wetland. Observations were made to confirm the location from a previous delineation conducted in the ROW. The size of the wetland is from the shapefile provided from this previous delineation, and the SF may vary.

(3) Location and area of wetland buffers on the lot;

All delineated wetlands within the vicinity of work locations deemed jurisdictional by the City of Portsmouth include 100-foot wetland buffers. Buffers may not be included in their entirety due to limit of survey. Area of the buffers provided will be calculated for the area within the ROW. Wetland buffers are described in detail in **Section 10.1017.22(3)**, locations can be found in the **Project Plans** provided in **Attachment A,** and a summary is provided in **Table 2** below.

Table 2 Jurisdictional Wetland Buffer Summary

Wetland ID	Cowardin Classification	Plan Set Sheet	Total Size of Wetland Buffer (SF)*
W-2	PEM1/5E	2	132,193+
W-3	PEM/PSS1C	2	144,919+**
W-5	PSS1C		
W-6	PSS1C/E, PEM1C/E		
W-6A	PEM1/5E	2	93,853+
W-7	PEM1C/E, PEM5E	3	217,120+**
W-8	PEM1C		
W-10	PEM1C, PEM5C/E	3	80,527+
W-11	PEM5E, PEM1C, PSS1C/E	4	134,316+
W-12	PEM5E	4	135,391+**
W-14	PEM1E		

* As stated above, the total size of the wetland buffers is derived from the delineations performed within the project area. The buffers created are only shown within the E194 Utility ROW where work is to take place. Wetland buffers that extend outside of the project ROW are noted with a "+" to indicate the full extent of the wetland was not measured.

**These buffers overlap and create one contiguous buffer comprised of multiple wetlands. The buffer area is provided for the full area depicted on the plans.

(4) Description of proposed construction, demolition, fill, excavation, or any other alteration of the wetland or wetland buffer;

Eversource is proposing to conduct routine maintenance work on the E194 115 kV Line in Portsmouth, New Hampshire. This work will include the replacement of 12 wood structures (15, 16, 18, 21, 22, 23, 24, 26, 37, 38, 39, and 40) with new weathered steel structures under the Asset Condition Replacement (ACR) program. The structures proposed for replacement will be replaced with weathering steel structures in the same configuration, in accordance with current construction methods and materials. The proposed project is part of Eversource's ongoing maintenance program conducted to ensure reliable electric service for their customers. The Eversource transmission system is an integral part of the regional power system delivering electricity to customers throughout New England. It is critical that this system remains operational without interruption from preventable outages. Contingent upon permit approvals, work is planned to commence in the fall of 2026.

The work locations of this project are located within vegetated and commercially developed areas of the E194 ROW. The line originates at the Schiller Substation in Portsmouth where it extends southeast to the Ocean Road Substation in Greenland. Access to the ROW will be from established roadways that intersect the ROW or commercial parking lots

that occur within the ROW. Please see the **Project Plans** included as **Attachment A** to view the locations of the proposed access and work areas.

Most of the replacement structures will be installed within 5 to 10 feet ahead or behind the existing structure footprint. Structure 22 will be relocated 20 feet behind the existing structure to optimize the design, and Structure 15 will be relocated 30 feet behind the existing structure to ensure a safe setback from a newly established roadway. Structures 37-39 will be replaced in-kind (cut and kick) because these structures are in or adjacent to existing parking lots. Most of the height of the new structures will increase between 5-20 feet to gain compliance with current regulatory standards, meet safety clearance requirements, accommodate the site topography, and minimize environmental impacts. Structure 16 will increase in height by 35 feet to gain clearance over an electric line that runs under the 115 kV transmission line. The proposed work will be contained within the existing cleared utility ROW, and no additional tree clearing or widening of the ROW is proposed.

All excavated spoils will be spread within an upland area of the project ROW (outside of NHDES or Portsmouth jurisdictional areas, including wetland buffers) or will be trucked off-site and properly disposed of. Prior to accessing work sites with construction equipment, crews will install wildlife friendly erosion and sediment control barriers in accordance with permitting plans and details, New Hampshire Department of Environmental Services (NHDES) conditions, and the Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire (or "Utility BMP Manual," March 2019), published by the New Hampshire Department of Natural and Cultural Resources (NHDNCR). Erosion and sediment control barriers will not be removed until project work is complete, and all project areas are stabilized.

All wetland impacts proposed will be temporary to access structures, and to build work pads at structures proposed for replacement. Upland work areas proposed within wetland buffers will be temporarily impacted using upland matting and will follow previously used access paths to provide a stable location for matting to be placed. A *Swamp Mat Detail* describing wetland timber matting is provided in **Attachment G: Construction Specifications.**

After the completion of the structure replacement work, construction debris will be removed from the project ROW and properly disposed of off-site. The work pads, where applicable, will be reduced to a 30-foot by 60-foot work pad with the remainder of the work pad being restored. Refer to the **Project Plans** provided in **Attachment A** for the location of existing wetlands, utility structures, proposed access routes, and construction work pads.

(5) Setbacks of proposed alterations from property lines, jurisdictional areas and wetland buffers;

No property line changes or permanent alterations are proposed as part of this project. All structure replacements will occur in kind, and no additional buildings, structures, or dwellings are proposed as part of this project.

(6) Location and area of wetland impact, new impervious surface, previously disturbed upland;

Locations of wetland impacts are shown in the **Project Plans** provided in **Attachment A.** All wetland impacts proposed are temporary using timber matting. Access roads within the ROW will follow historically used routes for maintenance or past construction activities when possible. Proposed routes will utilize these areas of historic grading, disturbance, and legacy gravel to provide a smaller footprint on the landscape, and provide stable locations for placement of upland matting within the wetland buffers.

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All work within wetland buffers will be utilized with temporary upland matting. As such, no ground disturbance or fills are anticipated within the wetland buffers depicted in the Project Plans. If unforeseen disturbance occurs within the wetland buffer, these areas will be restored following the wetland buffer enhancement plan detailed in **Section 10.1017.25** of the previously submitted CUP application package.

A summary of impacts to wetlands are displayed in **Table 3** below.

Table 3 Wetland and Wetland Buffer Impact Summary

Associated Structure(s)	Wetlands Impacted*	Type of Impact	Total Impact (SF)
16	W-3, W-5, W-6	Temporary Wetland Buffer	9,241
		Temporary Wetland	W-5: 7,422
15	W-2	Temporary Wetland Buffer	8,204
18	W-6A	Temporary Wetland Buffer	1,844
22 and 23	W-7, W-8	Temporary Wetland Buffer	21,312
		Temporary Wetland	W-7: 10,202
			W-8: 3,415
			Total: 13,617
38	W-12	Temporary Wetland Buffer	1,503
		Temporary Wetland	W:12 7,778
40	W-11	Temporary Wetland Buffer	1,427
		Temporary Wetland	W-11: 8,573
Totals		Temporary Wetland Buffer	**43,531 SF**
		Temporary Wetland	**37,390 SF**

*Temporary matting impacts are shown to wetlands W-4, W-9. These wetlands were delineated and marked as jurisdictional through RSA 482-A:2X but are less than 10,000 SF. Use of timber matting within these wetlands is not calculated as Portsmouth jurisdictional impacts. A wetland buffer does not apply to wetlands less than 10,000 SF.

(7) Location and description of existing trees to be removed, other landscaping, grade changes, fill extensions, rip rap, culverts, utilities;

As further discussed in **Section 10.1018.23** below, no trees will be removed as part of this project. Access roads to be established will be graded and stabilized with gravel to allow for safe transport of crews and equipment to work locations. Timber matting will be utilized to cross wetlands within the ROW to access the structures targeted for replacement and minimize soil disturbance by avoiding rutting by equipment. Upland matting is proposed to be used to create the work area for Structure 18 to protect the existing landscaping and established vegetation associated with the Home Depot parking lot. Work pads that will be established within the vegetated work areas will have the dimensions of 100 feet x 100 feet to provide adequate work pads for crews to replace the proposed structures. Minor grading may be required to create level and safe work pads for Eversource employees and contractors as part of this work. Locations of disturbances are shown in the **Project Plans** provided in **Attachment A.**

(8) Dimensions and uses of existing and proposed buildings and structures.

E194 Transmission structures currently are wooden H-Frame structures that will be replaced in kind with industry-standard weathered steel structures. Structure heights will be increased as necessary to achieve the required vertical clearance requirements between ground vegetation and overhead electric transmission lines. The above ground heights of existing structures, proposed structures, and the change in height is provided in **Table 4** below.

Memorandum

Table 4 Structure Height Summary Table

Structure Number	Existing Above Ground Height (ft)	Proposed Above Ground Height (ft)	Proposed Height Change (ft)
15	60.6	74.8	14.2
16	52	83.5	31.5
18	74.5	79	4.5
21	54.2	65.5	11.3
22	42.7	61	18.3
23	43	61	18
24	44.2	61	16.8
26	53	56.5	3.5
37	70	74.5	4.5
38	57.4	65.5	8.1
39	47.5	56.5	9
40	53.6	65.5	11.9

(9) Any other information necessary to describe the proposed construction or alteration.

VHB has consulted with New Hampshire Fish and Game, and the Natural Heritage Bureau for rare, threatened, and endangered ("RTE") species on behalf of Eversource. This RTE species information is confidential, however, state agency recommendations are being implemented to protect these species. Additional botanical surveys will be completed within the appropriate time of year to identify and demarcate occurrences of protected species, if present, for avoidance within the vicinity of work areas.

Section 10.1017.22: Where the proposed project will involve the temporary or permanent alteration of more than 250 sq. ft. of wetland and/or wetland buffer, the application shall provide information about the affected wetland and wetland buffer as follows:

(1) Up to 1,000 sq. ft. of alteration to the wetland: a wetland characterization that describes the type of wetland (e.g., emergent, scrub-shrub, forested), the percent of invasive species, and whether the wetland is seasonally flooded.

Wetlands and jurisdictional resources within the project work areas and ROW were delineated by VHB wetland scientists in August of 2025. Delineation of natural resources was limited to the ROW and did not include the entire parcel. Wetland delineation was performed in accordance with procedures and standards outlined in the *1987 Corps of Engineers Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation*

Manual: Northcentral and Northeast Region, Version 2.0 (January 2012). Wetland review also relied upon the *Field Indicators for Identifying Hydric Soils in the United States*, Version 9.2, published by the Natural Resource Conservation Service and *Field Indicators for Identifying Hydric Soils in New England*, Version 5.0 published by New England Interstate Water Pollution Control Commission and New England Hydric Soils Technical Committee (2025). Dominant wetland vegetation was assessed using the 2022 National Wetland Plant List published by the U.S. Army Corps of Engineers.

Wetlands resources that were determined jurisdictional by these methods are included on the project mapping. Per **Section 10.1013.10** of the zoning ordinance any inland wetlands that are more than 10,000 square feet in area are deemed jurisdictional wetlands by the City of Portsmouth. Portsmouth jurisdictional wetlands have a 100-foot wetland buffer applied and are shown in the **Project Plans** provided in **Attachment A** and briefly described below. A **Photo Log** is included as **Attachment B** of this memorandum that shows the site conditions of jurisdictional resources, proposed work areas, and wetland buffers. It is important to note that the work will be taking place within the Eversource Utility ROW, and as such the total wetland and/or wetland buffer on the lot outside of the ROW was not evaluated. As previously noted, Wetland W-2 was not within the proposed work area and was not fully evaluated for impacts. The boundary of this wetland was provided by Eversource from a previous project, and was confirmed to match the downslope boundary in the field. As such a full description of this wetland is not provided below. Temporary matting impacts associated with work pads and access roads to these wetlands are further described within **Table 3 Wetland and Wetland Buffer Impact Summary** provided in **Section 10.1017.21(2**).

- Wetland W-5 is a Palustrine, Scrub-shrub, Broad-Leaved Deciduous, seasonally flooded (PSS1C) wetland. Temporary matting impacts totaling 7,422 SF are proposed to create a stable work pad at Structure 16. The structure itself is within the wetland boundary. Native species noted within this wetland include: woolgrass (*Scirpus cyperinus*), rough-stemmed goldenrod (*Solidago rugosa*), swamp aster (*Symphyotrichum puniceum*), sensitive fern (*Onoclea sensibilis*), and species of sedge (*Carex* spp.). Invasive species were dominant in this wetland and include the following species: purple loosestrife (*Lythrum salicaria*), glossy buckthorn (*Frangula alnus*), oriental bittersweet (*Celastrus orbiculatus*), and multiflora rose (*Rosa multiflora*). It is estimated that invasive species comprise 75% of the foliar cover in this wetland.
- Wetland W-7 is a Palustrine, Emergent, Persistent, Seasonally Saturated/Flooded (PEM1C/E) and Palustrine, Emergent, Persistent/*Phragmites australis*, Seasonally Flooded/Saturated (PEM1/5E) wetland. This wetland was likely historically connected to wetland W-8 but is now divided by a narrow filled access path. Temporary impacts totaling 10,202 SF are proposed to Wetland 7 to provide access and a work area to replace Structure 22. Native vegetation within this wetland includes species of goldenrod (*Solidago* spp.), broadleaf cattail (*Typha latifolia*), silky dogwood (*Cornus amomum*), flat top white aster (*Doellingeria umbellata*), and an unidentified grass species. Invasive species within this wetland include common reed, and purple loosestrife. It is estimated that invasive species comprise 35% of the foliar cover of this wetland.
- Wetland W-8 is a Palustrine, Emergent, Persistent, seasonally flooded (PEM1C) wetland. Temporary matting impacts totaling 3,415 SF are proposed to this wetland to provide access and a work area to replace Structures 22 and 23. Native vegetation noted within this wetland includes: broadleaf cattail, rough-stemmed goldenrod, silky dogwood, species of sedge, *Spiraea* spp., soft rush (*Juncus effusus*), and flat top white aster. Invasive species within this wetland include glossy buckthorn, multiflora rose, and purple loosestrife. It is estimated that invasive species comprise 30% of the foliar cover of this wetland.

Memorandum

- Wetland W-11 has multiple Cowardin classifications due to the size of the wetland and range in plant communities within it. Cowardin classifications include Palustrine, Emergent, Persistent, Seasonally Saturated/Flooded (PEM1C/E); Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded/Saturated (PEM5E); and Palustrine, Scrub-shrub, Broad-Leaved Deciduous, Seasonally Flooded/Seasonally Saturated (PSS1C/E). Native plant species noted within this wetland include broadleaf cattail. Invasive species within this wetland include common reed, glossy buckthorn and purple loosestrife. It is estimated that invasive species comprise 80% of the foliar cover of this wetland, primarily common reed. This wetland also extends outside of the ROW and is likely connected to, and a part of wetland W-12. This feature is mapped as Prime Wetland by the City of Portsmouth.
- Wetland W-12 is a Palustrine, Emergent, *Phragmites australis*, Seasonally Flooded/Saturated (PEM5E) wetland. This wetland has a near monoculture of the invasive species common reed, estimated at 90% of the foliar cover. Isolated patches of broadleaf cattail were observed outside of the proposed work area on the northern side of this wetland, and the plant community transitions into a stand with a greater amount of broadleaf cattail on the northern extent of this wetland adjacent to the Borthwick Avenue. This wetland also extends outside of the ROW and is likely connected to, and a part of wetland W-11. This feature is a PRA as it is mapped as Prime Wetland by the City of Portsmouth.

(2) More than 1,000 sq. ft. of alteration to the wetland: a functions and values assessment equivalent to the model set forth in Appendix A of The Highway Methodology Workbook Supplement – Wetland Functions and Values: A Descriptive Approach, NAEEP-360-1-30a, US Army Corps of Engineers, New England Division, September 1999, as amended.

Functions and values assessments for wetlands with 1,000 SF of proposed temporary impacts or greater were assessed using data collected in the field by VHB Environmental Scientist, Trent Delehanty (NH CWS #555), in accordance with the *U.S. Army Corps of Engineers New England District - The Highway Methodology Workbook Supplement: Wetland Functions and Values - A Descriptive Approach* (1999). Thirteen wetland functions and values are recognized under the USACE methodology and a fourteenth (Ecological Integrity) is indicated in NHDES rules as follows:

- Groundwater Recharge/Discharge (GW)
- Floodflow Alteration (Storage & Desynchronization) (FA)
- Fish and Shellfish Habitat (FS)
- Sediment/Toxicant Pathogen Retention (SR)
- Nutrient Removal/Retention/Transformation (NR)
- Production Export (Nutrient)(PE)
- Sediment/Shoreline Stabilization (SS)
- Wildlife Habitat (WH)
- Recreation (Consumptive & Non-Consumptive) (RE)
- Educational/Scientific Value (ED)
- Uniqueness/Heritage (UH)
- Visual Quality/Aesthetics (VQ)
- Threatened or Endangered Species Habitat (ES)
- Ecological Integrity (EI)

The USACE Highway Methodology provides a list of considerations and qualifiers that are used to assess the occurrence of each function or value, followed by a subjective determination of Principal Functions and Values, with documentation of supporting rationale on standard forms. Ecological Integrity is a function not assessed by the USACE Highway Methodology, but is required by NHDES rule to evaluated. This function and value assessment was determined using the NH Method created by UNH Extension. Refer to the **Wetland Function – Value Evaluation Forms** provided in **Attachment E**.

In accordance with the USACE Highway Methodology practices, functions are either assigned a P for Principal Function, or an X indicating the function or value is provided by the wetland or left blank to indicate that the function is not provided by the wetland. The results of these assessments are displayed in **Table 5** below.

Table 5 Wetland Functions and Values

Wetland ID	Cowardin Class	GW	FA	FS	SR	NR	PE	SS	WH	RE	ED	UH	VQ	ES*	EI
W-5	PSS1C	-	X	-	X	P	-	-	-	-	-	-	-	X	4.1
W-7	PEM1C/E PEM5C/E	X	P	-	-	P	-	-	-	-	-	-	-	X	5.7
W-8	PEM1C	X	P	-	-	P	-	-	-	-	-	-	-	X	5.2
W-11	PEM5E, PEM1C, PSS1C/E	P	P	-	P	P	-	-	-	-	-	X	-	X	4.4
W-12	PEM5E	P	P	-	P	P	-	-	-	-	-	X	-	X	4.4

*RTE species have been noted within the vicinity of these wetlands, and as such will be noted as functioning as endangered species habitat. Due to the sensitive nature of these species, no additional information can be given at this time.

Nutrient removal/retention/transformation is a principal function of all these wetlands. Floodflow alteration was a principal function that was present in each of these wetlands, other than W-5 where it was identified as a function or value provided by the wetland. These functions and values are common within wetlands found in utility ROW corridors in low lying areas. These areas commonly provide storage of water during flood events and can trap nutrients in runoff water from upslope areas. Temporary matting impacts will not adversely impact these functions and values. W-11 and W-12 are large and extend outside of the surveyed work area. According to the desktop screening, these wetlands are within, or likely continuous with Prime Wetlands within the City of Portsmouth. As such additional principal functions of groundwater recharge/discharge, and sediment/toxicant/pathogen retention were identified. These principal functions provide the potential for the wetlands to serve as groundwater recharge and/or discharge areas, and the potential to trap sediment, toxicants, or pathogens in runoff water from surrounding uplands or upstream eroding wetland areas. Temporary matting impacts will not adversely impact these principal functions.

(3) More than 250 sq. ft. of alteration to the wetland buffer (regardless of the amount of alteration to the wetland): a description of the 100-foot buffer including vegetation type, the percent of the buffer with invasive species, and the percent of the buffer that is paved or developed.

Inland wetlands W-2, W-3, W-5, W-6, W-6A, W-7, W-8, W-10, W-11, W-12, and W-14 are greater than 10,000 square feet, and 100-foot wetland buffers were inventoried in the field. These 100-foot wetland buffers are shown in the **Project Plans** provided in **Attachment A.** Additionally, a brief description of each buffer is provided below, and a table that describes the size of the buffers is provided in **Table 2** which is included in **Part 10.1017.21(3)** above. Wetland buffers and the associated plant species composition were only described within the Eversource ROW. Proposed work disturbances within the 100-foot wetland buffers are provided in **Table 3 Wetland and Wetland Buffer Impact Summary** which is included in **Part 10.1017.21(2)** above.

- The buffer of wetland W-2 is within an urban area, and primarily consisted of a parking lot that housed Structure 15 during delineation. As previously described, this area is now a recently reclaimed roadside that had recently been hydroseeded during the July 1, 2026 site visit. This area also includes a stormwater outfall along the hillside that wetland is located on the toe of slope. Upland species noted (not including the hydroseed that has yet to germinate) include: staghorn sumac (*Rhus typhina*), species of goldenrod, common milkweed (*Asclepias syriaca*), brambles (*Rubus* spp.), and species of vetch (Vicia *spp*.). No invasive species were observed within the buffer. The impervious surface was estimated to be 25% of the buffer within the proposed work area. Temporary upland matting will be used to access to Structure 15 and proposed work area.
- The buffer of wetland W-3 contained the following native plant species: American basswood (*Tilia americana*), and pokeweed (*Phytolacca americana*). Invasive flora species within the buffer include glossy buckthorn, multiflora rose, common tansy (*Tanacetum vulgare*), and oriental bittersweet. These invasive species comprised approximately 60% of the foliar cover of the buffer. Additionally, a portion of the northern portion of the buffer includes a developed and impervious roadway. The impervious surface of the buffer is estimated to be 5%.
- The buffer of wetland W-5 contained the following native plant species: American basswood, staghorn sumac, pokeweed, bracken fern (*Pteridium aquilinum*), and rough-stemmed goldenrod. Invasive flora species within the buffer include oriental bittersweet, glossy buckthorn, common tansy, and multiflora rose. Invasive species comprise approximately 50% of the foliar cover of the buffer. Additionally, an impervious roadway to the south of Structure 16 comprises a portion of the buffer. The impervious surfaces are estimated to be 10% of the wetland buffer.
- The buffer of wetland W-6 includes the following native plant species: staghorn sumac, bracken fern, and American basswood saplings. Invasive flora species observed within this buffer include species of smartweed (*Polygonum* spp.), oriental bittersweet, common tansy, glossy buckthorn, and multiflora rose. Invasive species comprise approximately 50% of the foliar cover within the buffer. Impervious surfaces associated with this buffer include a roadway that is within the buffer to the south, and a shopping complex with impervious loading docks to the east. Impervious surfaces are estimated to be 30% of the wetland buffer.
- The buffer of wetland W-6A extends to the work area of Structure 18. Buffer vegetation includes staghorn sumac and species of goldenrod. Impervious surfaces associated with this buffer include commercial parking areas and Arthur Brady Drive which comprises approximately 65% of the wetland buffer. Access to Structure 18 is proposed on existing paved driveway. Upland matting will be used to protect the landscaped and maintained vegetation associated with Home Depot, and no ground disturbing impacts outside of the structure replacement is proposed at this location.
- The buffer of wetland W-7 includes the following native plant species: flat-top goldentop (*Euthamia graminifolia*), rough-stemmed goldenrod, black cherry (*Prunus serotina*), an unidentified species of grass, species of meadowsweet, and brambles. Invasive species found within the buffer of this wetland include glossy buckthorn, multiflora rose, oriental bittersweet, and common mullein (*Verbascum thapsus*). Invasive species comprise approximately 25% of the observed wetland buffer. No impervious surfaces were documented within the wetland buffer within the utility ROW.
- The buffer of wetland W-8 includes the following native plant species: flat-top goldentop, rough-stemmed goldenrod, common burdock (*Arctium minus*), common mullein, staghorn sumac, species of meadowsweet, and brambles. Invasive species found within the buffer of this wetland include autumn olive (*Elaeagnus umbellata*), glossy buckthorn, multiflora rose, and oriental bittersweet. Invasive species comprise approximately 40% of the

observed wetland buffer. Impervious surfaces within the wetland buffer include a paved commercial parking area south of the wetland. The estimated impervious area is approximately 5% of the wetland buffer.

- The buffer of wetland W-10 included the following native plant species: staghorn sumac, aspen (*Populus tremuloides*), rough-stemmed goldenrod, and bracken fern. Invasive species found within the buffer of this wetland include glossy buckthorn, purple loosestrife, and common reed. It is estimated that invasive species comprise 60% of the foliar cover of the wetland buffer. It is also important to note that an impervious roadway to the east and a car dealership to the west provide impervious surface within this wetland buffer and comprise approximately 30% of the wetland buffer. Impacts to this buffer have been avoided, all proposed access within the buffer is through existing access and no ground disturbance within the buffer is proposed.
- The buffer of wetland W-11 included the following native plant species: staghorn sumac, bracken fern, brambles, and American basswood. An unknown grass species was observed within the mowed roadway and could not be positively identified. Invasive species within this buffer include glossy buckthorn and purple loosestrife. It is estimated that invasive species comprise 30% of the foliar cover of the wetland buffer. This wetland buffer is largely comprised of impervious surfaces associated with the roadway to the west, and parking lots to the north, east, and south. Impervious surfaces are estimated at 90% within the project ROW.
- The wetland boundary of W-12 abuts the parking lot where proposed work will take place. Impervious parking lot and roadways comprise much of this wetland buffer. The wetland buffer adjacent to the roadway contains native vegetation including staghorn sumac, and an unidentified species of grass. Invasive species along this roadway include multiflora rose and oriental bittersweet. This wetland buffer is largely comprised of impervious surfaces associated with the roadway to the north, and parking lots to the south. Impervious surfaces are estimated at 80% within the wetland buffer in the project ROW. No wetland buffer impacts are proposed with work associated with Structure 37 as work is contained within previously developed parking facilities associated with the Portsmouth Hospital.
- The buffer of W-14 is comprised primarily of impervious surfaces associated with the parking lot of the Portsmouth Regional Hospital and Borthwick Avenue. Plant species within vegetated portions of this buffer include an unknown grass species and Japanese knotweed (*Polygonum cuspidatum*). The edges of this swale are routinely mowed which made plant identification difficult. An estimated 20% of the vegetated portion of the buffer is Japanese Knotweed. The impervious surfaces comprise approximately 95% of the wetland buffer. No wetland buffer impacts are proposed with work associated with Structure 37 as work is contained within previously developed parking facilities associated with the Portsmouth Hospital.

Section 10.1017.23: The application shall describe the impact of the proposed project with specific reference to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way), and shall demonstrate that the proposed site alteration is the alternative with the least adverse impact to areas and environments under the jurisdiction of this Ordinance.

Please view the responses to **Section 10.1017.60** below.

Memorandum

Section 10.1017.24: Where feasible, the application shall include removal of impervious surfaces at least equal in area to the area of impervious surface impact. The intent of this provision is that the project will not result in a net loss of pervious surface within a jurisdictional wetland buffer. If it is not feasible to remove impervious surfaces from the wetland buffer at least equal in area to the area of new impervious surface impact, the application shall include a wetland buffer enhancement plan that describes how the wetland functions and values will be enhanced to offset the proposed impact.

Construction disturbance has been avoided and minimized throughout the design process and while planning the construction of this project. No permanent wetland or wetland buffer impacts are proposed as part of this project. Following installation of the new structures, the existing wood poles will be removed from the ROW and properly disposed of.

Where possible, proposed access routes occur within the footprint of historic access used for previous maintenance and construction projects within the ROW. These areas have undergone previous grading and road building, and utilizing these routes reduces the amount of temporary impact on the landscape and provides a more stable location for mats to be placed within the wetland buffers.

A wetland buffer enhancement plan has been provided in **Section 10.1017.25(1)** below. As discussed in the previous application package **Section 10.1017.22(2)** functions and values of the wetlands are not anticipated to be impacted adversely as part of this project, and restoration in accordance with the wetland buffer enhancement plan will maintain the current functions and values of the wetlands.

Section 10.1017.25: A wetland buffer enhancement plan shall be designed to enhance the functions of the jurisdictional wetland and/or wetland buffer on the lot, and to offset the impact of the proposed project

> **(1) The wetland buffer enhancement plan shall include a combination of new plantings, invasive species removal, habitat creation areas, improved site hydrology, or protective easements provided offsite.**

As stated in **Section 10.1017.20(4)** the project proposes unavoidable temporary impacts to the wetland buffer. These proposed impacts consist of temporary upland matting to facilitate access to the structures proposed for replacement. No soil disturbance is anticipated within the wetland buffers, but if disturbance were to occur, the following best management practices will be undertaken to ensure a stable and functional wetland buffer remains on the landscape. If soil disturbance is to occur these sediments will be stabilized with a native upland plant seed ix and mulched with weed-free straw. No contractor has been selected for this project and seed mix composition can vary by contractor preference. A common seed mix used within utility ROWs is New England Erosion Control/Restoration Mix for dry sites produced by New England Wetland Plants, Inc. Species included within this mix are Canada wild rye (*Elymus canadensis*), annual ryegrass (*Lolium multiflorum*), perennial ryegrass (*Lolium perenne*), little bluestem (*Schizachyrium scoparium*), Indian grass (*Sorghastrum nutans*), switch grass (*Panicum virgatum*), and upland bentgrass (*Agrostis perennans*). Native species used within these mixes are typically quick to establish on sites providing soil stabilization and compatibility with the utility ROW use. Best management practices outlined in the *Best Management Practices Manual for Utility Maintenance in and Adjacent to Wetlands and Waterbodies in New Hampshire* (or "Utility BMP Manual," March 2019), published by the New Hampshire Department of Natural and Cultural Resources (NHDNCR), and recently issued *New Hampshire Stormwater Manual* (or "Stormwater Manual", February 2025) will be adhered to. A qualified environmental monitor will conduct inspections weekly as work progresses on the site and will monitor the site post construction to ensure disturbed soils throughout the project areas including within wetland buffers are stabilized. Per the recommendations

of the forementioned Stormwater Manuals a site is deemed to be stabilized when a minimum of 85% vegetative cover has been established.

(2) Where the vegetated buffer strip contains grass or non-native plantings, or is otherwise not intact, the first priority of the wetland buffer enhancement plan shall be to include revegetation of the vegetated buffer strip with native, low-maintenance shrubs and other woody vegetation.

Please see the wetland buffer enhancement plan described above. Quickly establishing native plant mixes are preferred within utility ROWs to control erosion and provide the disturbed areas a native seedbank. Due to the routine vegetation maintenance that occurs within Eversource utility ROWs (typically every five to seven years), aside from some low growing shrub species, woody stemmed vegetation is difficult to establish into perpetuity.

Section 10.1017.60: Public and Private Utilities within Rights-of-Way in Wetlands and Wetland Buffers

The installation of utilities (including power lines and pipelines) within a right-of-way in an inland wetland or wetland buffer shall comply with all of the following criteria instead of the criteria set forth in section 10.1017.50:

(1) The proposed construction is in the public interest;

As described above, the project will include the replacement of thirteen wood structures (15, 16, 18, 21, 22, 23, 24, 26, 37, 38, 39, and 40) with new weathered steel structures under the ACR program. The structures proposed for replacement will be replaced in the same configuration, in accordance with current construction methods and materials. The proposed project is part of Eversource's ongoing maintenance program conducted to ensure reliable electric service for their customers. The Eversource transmission system is an integral part of the regional power system delivering electricity to customers throughout New England. It is critical that this system remains operational without interruption from preventable outages.

(2) Design, construction, and maintenance methods will utilize best management practices to minimize any detrimental impact of such use upon the wetland and will include restoration of the site as nearly as possible to its original grade, condition and vegetated state;

Avoidance and minimization of impacts to jurisdictional resources was considered when designing the access routes and work areas. The following standard best management practices will be adhered to during and post construction.

In areas which ground disturbance will occur as part of this work, crews will install wildlife friendly erosion and sediment control barriers in accordance with the *Utility BMP Manual* and *Stormwater Manual*. Selected BMPs may include straw wattles, silt fence, wood chip/compost berms/tubes, and/or other approved BMPs. No erosion control BMPs with welded plastics will be used.

Other BMPs such as stabilized construction exits, water bars, and erosion control blankets will also be used along proposed access ways and adjacent to structure locations to manage stormwater run-off, reduce erosion and stabilize soils. As requested by NHF&G, wildlife-friendly erosion controls, such as those made from woven organic materials or other biodegradable materials will be used, rather than those that use welded plastic netting or polypropylene. Erosion control BMPs will be inspected daily by the contractor crews and weekly by a qualified environmental monitor, hired by Eversource, to ensure that the controls are maintained and are properly functioning throughout the duration of the Project.

Where the proposed access or the 100-foot by 100-foot structural work pads intersect wetlands, timber mats (typically with dimensions of 16 feet wide by 4 feet long) will be installed to safely stage equipment and crews while minimizing soil disturbance and rutting within these resources. Some work pads may need to be two-tiered or off-set due to local topography or to avoid wetland impacts. Where necessary, timber matting will be placed within the construction work pads around structure replacement locations within wetland areas to accommodate necessary equipment.

As soon as possible after the completion of the structure replacement work, timber matting and construction debris will be removed from the Project ROW and properly disposed of off-site. Stabilization and restoration of disturbed areas/exposed soils will be initiated as soon as possible once timber mats are pulled and structural work is completed. Due to the use of timber mats within wetlands, it is anticipated that minimal restoration within temporarily impacted wetlands will be required, and that natural vegetative re-colonization of impacted areas is expected during summer vegetative growth periods after mat removal activities have concluded. VHB will visit the project ROW, post-construction to assess conditions, guide work crews on restoration, and determine if additional promotion of vegetation (seeding) is required. If necessary, an appropriate upland and/or wetland seed mix will be applied to any areas where cover is slow to develop. Additionally, straw or weed-free hay will be applied in conjunction with seed. In accordance with Env-Wt 307.12(f), if the temporarily impacted areas do not have at least 75% revegetation after two growing seasons, replanting, or reseeding would occur in those areas. Per the recommendations of the recently published NH Stormwater Manual a site is deemed to be stabilized when soils on the site will not experience accelerated or unnatural erosion conditions during a 10-year storm event and a minimum of 85% vegetative cover has been established.

(3) No alternative feasible route exists which does not cross or alter a wetland or have a less detrimental impact on a wetland; and

As described briefly above, avoidance and minimization of impacts to jurisdictional resources were considered when designing the access routes and work areas of this project. Examples of this include the shift of the access route to avoid impacts to W-4 (not jurisdictional in the City of Portsmouth due to size restriction), removal of in-ROW access to Structure 24 eliminating buffer impacts to W-10 and matting impacts to W-9 (not jurisdictional in the City of Portsmouth due to size restriction), and removal of in-ROW access to Structure 40 requiring no additional matting impacts to W-11. Additional considerations such as existing access routes, landowner relations, and high traffic public roadway use were also taken into consideration when determining the access routes and work areas.

(4) Alterations of natural vegetation or managed woodland will occur only to the extent necessary to achieve construction goals.

The current scope of work is limited to work areas at each structure, and an access route designed to provide safe and stable transport of crews and equipment to each work area. No tree clearing is proposed as part of this project and is discussed in detail below in **Sections 10.1018.23(2)** and **10.1018.23(3)**. Mowing of vegetation may be required prior to work to allow for mobilization and access for work crews.

Section 10.1018.10: Stormwater Management

All construction activities and uses of buildings, structures, and land within wetlands and wetland buffers shall be carried out so as to minimize the volume and rate of stormwater runoff, the amount of erosion, and the export of sediment from the site. All such activities shall be conducted in accordance with Best Management Practices for stormwater management including but not limited to:

1. New Hampshire Stormwater Manual, NHDES, February 2025.

2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004.

Eversource and their contractors will install wildlife friendly erosion and sediment control barriers in accordance with the *Utility BMP Manual* and *Stormwater Manual*. Upon review of the *Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004,* the recommendations and guidelines provided for this project closely follow these two manuals. The Utility BMP Manual is a manual created by NHDNCR specifically to include the unique situations found during the routine maintenance activities within utility ROWs. Additional erosion control procedures, best management practice specifications, and construction procedures are provided within the Plan Notes included on the **Project Plans** provided in **Attachment A.**

Section 10.1018.20: Vegetation Management

Section 10.1018.22: **If the vegetated buffer strip specified in Section 10.1018.21 contains an area that has a slope of 10% or more for at least 10 feet in a direction perpendicular to the edge of the jurisdictional area, the required width of the vegetated buffer strip shall be increased to 55 feet from the edge of a vernal pool and to 40 feet from the edge of any other wetland.**

Screening the site locations using LiDAR data from GRANITView no slopes of 10% or greater for at least 10 or more feet were observed within the work areas. If steep slopes occur on the site and require stabilization, best management methods provided within **Section 10.1018.10** will be used, including erosion control blankets. 2-foot and 10-foot contours are shown on the **Project Plans** provided in **Attachment A** for reference. A specification for the installation of erosion control blankets can be found on the **Project Plans** provided in **Attachment A.**

Section 10.1018.23: Removal or cutting of vegetation

(1) Chemical control of vegetation is prohibited in all areas of a wetland or wetland buffer.

No chemical control of vegetation is proposed as part of this project within the uplands, wetlands, or wetland buffers.

(2) The removal or cutting of vegetation is prohibited in a wetland or vegetated buffer strip, except that non-chemical control of plants designated by the State of New Hampshire as "New Hampshire Prohibited Invasive Species" is permitted.

Routine vegetation maintenance within Eversource Utility ROWs occur on four to seven year cycles to maintain line clearance. As such trees greater than 6-inches at diameter breast height (dbh) are uncommon within the ROW, and no trees of this size are proposed to be cut. Mowing of vegetation may be required prior to work to allow for mobilization and access for work crews.

(3) The removal of more than 50% of trees greater than 6" diameter at breast height (dbh) is prohibited in the limited cut area.

As stated above, routine vegetation maintenance within Eversource Utility ROWs occurs on four to seven year cycles to maintain line clearance. As such trees greater than 6-inch dbh are uncommon within the ROW, and no trees of any size are proposed to be cut.

Section 10.1018.24: Fertilizers

(1) The use of any fertilizer is prohibited in a wetland, vegetated buffer strip or limited cut area.

Fertilizers are not proposed to be used during the construction or restoration of this project. Restoration of disturbed upland soils typically includes temporary stabilization with straw and application of a native plant seed mix to promote vegetative stabilization. It is important to note the hydroseed that may contain included fertilizers applied within the buffer of Wetland W-2 is an existing condition, and no hydroseeding with included fertilizers is proposed as part of this project.

(2) The use of fertilizers other than low phosphate and slow release nitrogen fertilizers is prohibited in any part of a wetland buffer. 10.1018.25 Pesticides and herbicides: The use of pesticides or herbicides is prohibited in a wetland or wetland buffer, except that application of pesticides by a public agency for public health purposes is permitted.

As stated above, fertilizers are not proposed to be used during the construction or restoration of this project. Restoration of disturbed upland soils typically includes temporary stabilization with straw and application of a native plant seed mix to promote vegetative stabilization. The hydroseed that may contain included fertilizers applied within the buffer of Wetland W-2 is an existing condition, and no hydroseeding with included fertilizers is proposed as part of this project.

Section 10.1018.30: Porous Pavement in Wetland Buffer

Section 10.1018.31:

All new pavement installed in a wetland buffer shall be porous pavement. The Planning Board may allow exceptions to this requirement where it can be demonstrated that the height of ground water, condition of soil, or other factors as described in the application are not appropriate for porous pavement.

No pavement is proposed as part of this project. Access routes within the upland wetland buffers will be accessed using temporary upland matting and no fills will be used within the wetland buffers.

Section 10.1018.32:

An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan addressing erosion control, periodic removal of sediment and debris from the porous surfaces, snow management, and repairs

No pavement is proposed as part of this project. Access routes within the upland wetland buffers will be accessed using temporary upland matting and no fills will be used within the wetland buffers and are denoted on the **Project Plans** provided in **Attachment A.**

Section 10.1018.40: Wetland Boundary Markers

Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction

Memorandum

The current proposed plan is to use vinyl ribboning to indicate wetland boundaries for contractors. Permanent wetland boundary markers will be further discussed with the Conservation Commission. This work will occur within the E194 Utility ROW within easements on privately owned property.

Sincerely,

Sherrie Trefry

Sherrie Trefry, CSS
Energy Market Lead

cc: City of Portsmouth Planning Board
Ashley Nicoletti, Eversource

Attachments

Attachment A- Project Plans
Attachment B- Site Photo Log
Attachment C- Tax Maps
Attachment D- USGS Location Map
Attachment E- Functions and Values Assessments
Attachment F- July 8, 2026 Conservation Commission Meeting Minutes
Attachment G- Construction Specifications

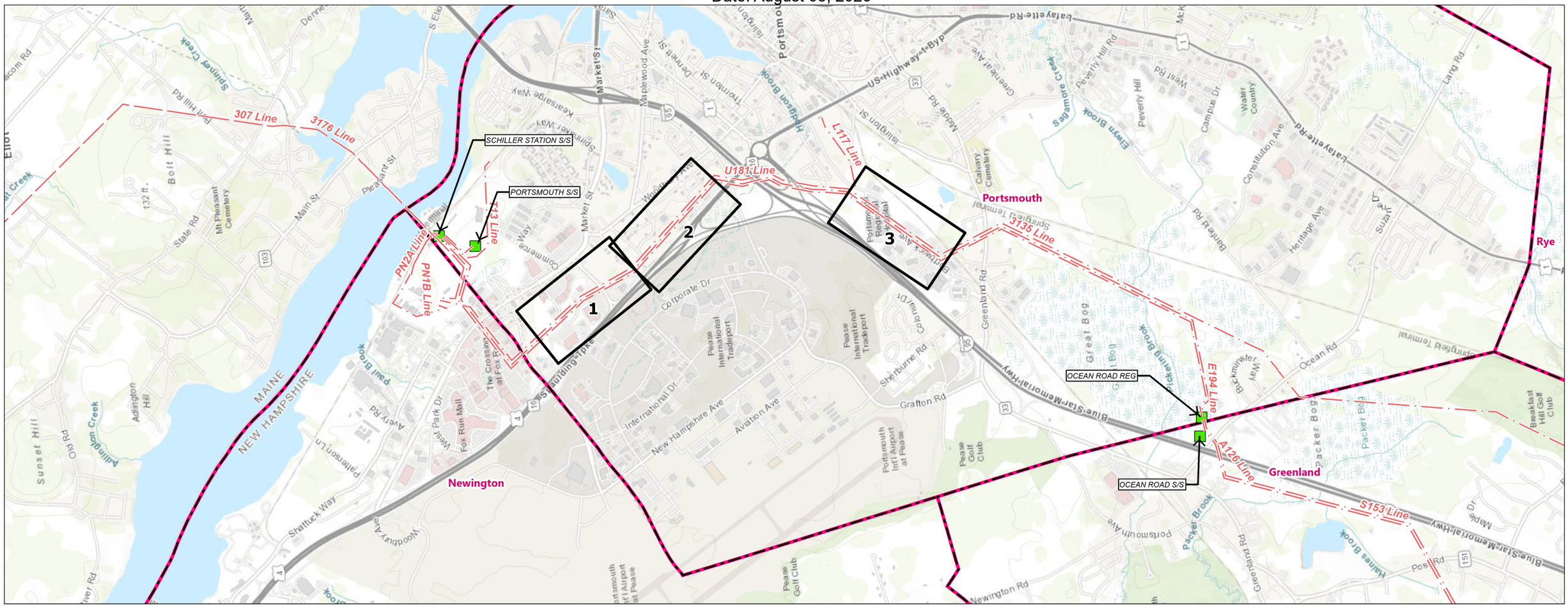
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Project Plans

E194 Line - Structure Replacement Project

Portsmouth, NH
Environmental Resources Map

Date: August 03, 2026



Legend

- Substation
- Map Sheet
- Municipal Boundary
- Overhead Eversource Line

N

0 0.25 0.5 Miles

INDEX OF FIGURES

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Map Sheet 1-3

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Date Source: Existing ROW Lines, Structures, and Transmission Lines provided by Eversource Energy. Wetlands and Watercourses delineated and certified by VHB. Additional sources include: FEMA, and NH GRANIT.

PREPARED FOR:

EVERSOURCE ENERGY

13 Legends Drive
Hookset, NH 03106

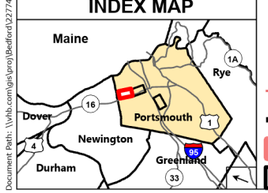
PREPARED BY:

vhb

2 Bedford Farms Drive
Suite 200
Bedford, NH 03110



INDEX MAP



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- 10-foot Contour
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- NRCS Very Poorly Drained Soils
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- Parcel Boundary

1 Inch = 200 Feet
0 100 200 Feet

EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

Portsmouth, NH | MAP SHEET 1 of 3

Date: August, 2026

vhb

Document Path: \\vhb.com\gis\proj\Bedford\22774.00 ES E194 ACR Replacements\Project\ES E194 ACR Replacements\ES E194 ACR Replacements.aprx

Right of Way boundaries, easements, fee property, substation, and junction locations depicted as points, lines, polygons and corresponding attribute data is to be considered approximate and not to be construed as the result of a field survey.

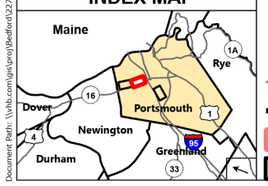
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HILLCREST DR
ECHO AVE
WOODLAWN CIR
LONGMEADOW LN
MAPLE ST
MEADOW RD
WOODBURY AVE
FARM LN
CLOVER LN
PORTSMOUTH
OMNE MALL CONNECTOR
Hodgson Brook

TEMPORARY WETLAND IMPACT: 8,900 SF
TEMPORARY UPLAND MATTING: 5,742 SF
TEMPORARY UPLAND MATTING: 330 SF
TEMPORARY WETLAND IMPACT: 1,555 SF
TEMPORARY UPLAND MATTING: 8,445 SF
TEMPORARY WETLAND IMPACT: 686 SF
TEMPORARY UPLAND MATTING: 1,099 SF
TEMPORARY WETLAND IMPACT: 1,302 SF
TEMPORARY WETLAND IMPACT: 1,174 SF
TEMPORARY UPLAND MATTING: 1,663 SF
TEMPORARY UPLAND MATTING: 4,033 SF

W-7 PEM1C
W-8 PEM1C
W-9 PEM1E
W-10 PEM1C PEM5C/E
PEM5C/E
PEM1C/E

3135 Line
U181 Line
E194 Line

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1 Inch = 200 Feet
0 100 200 Feet

EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

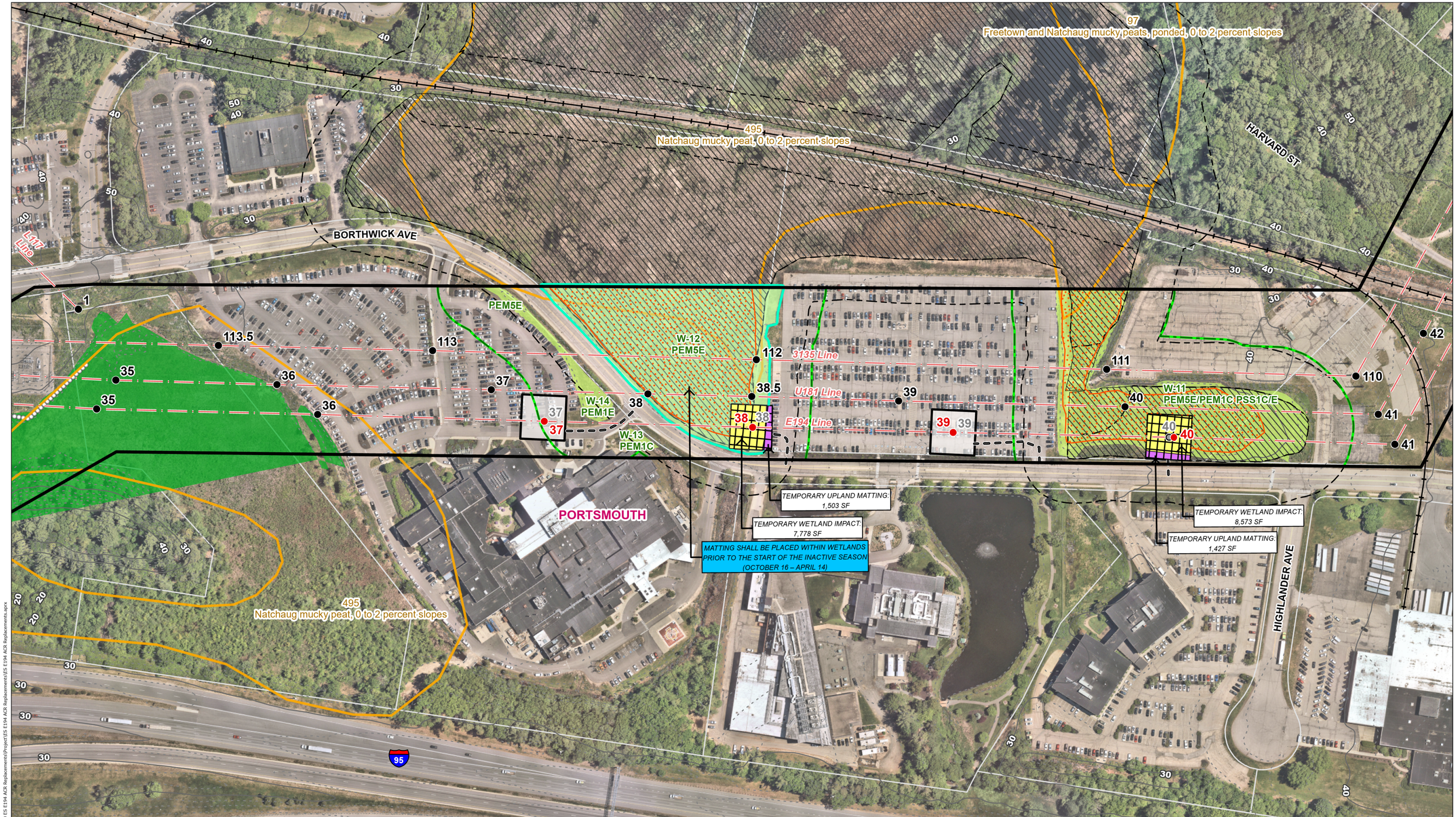
Portsmouth, NH | MAP SHEET 2 of 3

Date: August, 2026

vhb

Document Path: \\vhb.com\gis\proj\Bedford\22774.00 ES E194 ACR Replacements\Project\ES E194 ACR Replacements\ES E194 ACR Replacements.aprx

Right of Way boundaries, easements, fee property, substation, and junction locations depicted as points, lines, polygons and corresponding attribute data is to be considered approximate and not to be construed as the result of a field survey.



INDEX MAP



- Existing Strucure
- Existing Structure to be Replaced
- Proposed
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Eversource Owned Property
- Work Pad
- Sediment Control Barrier
- 100' Buffer to BVW
- Delineated Stream
- Watercourse (not delineated)
- Delineated Wetland Edge
- Field Delineated Wetland
- Previous Delineated Wetland
- Gate
- Existing Access
- Proposed Access
- Off-ROW Access Pending Rights
- Temporary Construction Matting
- Upland Matting
- Tidal waters
- Flood plain wetlands adjacent to Tier 3 streams
- Prime Wetlands with 100ft buffer
- Prime Wetlands
- FEMA 100-Year Flood Zone
- Turtle Overwintering Area
- Culvert
- Stonewall
- Railroad
- 2-foot Contour
- 10-foot Contour
- Delineated Very Poorly Drained Soils
- NRCS Very Poorly Drained Soils
- Municipal Boundary
- Parcel Boundary

1 Inch = 200 Feet
0 100 200 Feet

EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

Portsmouth, NH | MAP SHEET 3 of 3

Date: August, 2026

vhb

Document Path: \\vhb.com\gis\proj\Bedford\22774.00 ES E194 ACR Replacements\Project\ES E194 ACR Replacements.aprx

Right of Way boundaries, easements, fee property, substation, and junction locations depicted as points, lines, polygons and corresponding attribute data is to be considered approximate and not to be construed as the result of a field survey.

B

Photographic Log

Photography Log

PROJECT INFORMATION

Eversource E194 Transmission ACR Maintenance Project

22774.00

LOCATION

Portsmouth, NH

1. Wetland W-2

Observations View of wetland W-2 (PEM1/5E).	Taken: 9/26/2025 Facing: N 

2. Wetland W-2 Buffer

Observations View of the vegetated portion of the buffer of Wetland W-2.	Taken: 09/26/2025 Facing: E 

3. Structure 15

Taken: 9/26/2025 Facing: E



Observations

View of Structure 15. Photo also shows the impervious portion of the buffer of Wetland W-2.

4. ROW Access

Taken: 9/26/2025 Facing: SW



Observations

View of the historic access to the ROW from the commercial roadway between Structures 15 and 16. The vegetated and impervious portions of wetland W-3's buffer are shown.

5. Wetland W-3 Buffer

Taken: 9/26/2025 Facing: SE



Observations

View of the vegetated buffer within the ROW of Wetland W-3.

6. Wetland W-3

Taken: 9/26/2025 Facing: NE



Observations

View of wetland W-3 (PEM1C/PSS1C).

7. Wetland W-5

Observations View of wetland W-5. Photo also includes Structure 16 to the right.	Taken: 9/26/2025 Facing: N 

8. Wetland W-5 Buffer

Observations View of the vegetated wetland buffer of wetland W-5 east of Structure 15.	Taken: 9/26/2025 Facing: S 

9. Wetland W-6

Taken: 9/26/2025 Facing: S



Observations

View of wetland W-6. Dense scrub-shrub cover made general site photos of this wetland difficult.

10. Wetland W-6 Buffer

Taken: 9/26/2025 Facing: W



Observations

View of the vegetated wetland buffer of wetland W-6 east of Structure 16.

11. Structure 18

Observations View of Structure 18 looking towards Arthur F Brady Drive.	Taken: 9/26/2025 Facing: S 

12. Arthur F Brady Drive

Observations View of the wetland southeast of Arthur F Brady Drive.	Taken: 9/26/2025 Facing: SE 

13. Structure 21

Observations View of Structure 21 and the associated work area.	Taken: 10/17/2025 Facing: W 

14. Wetland W-7

Observations View of Wetland W-7 (PEM1C/E).	Taken: 10/17/2025 Facing: SE 

15. Wetland W-7

Taken: 10/17/2025 Facing: SE



Observations

View of Wetland W-7 (PEM1C/E PEM5C/E). Stand of *Phragmites australis* can be seen on the left side of the photo.

16. Wetland W-7

Taken: 10/17/2025 Facing: E



Observations

View of the upland buffer north of Wetland W-7.

17. Wetlands W-7 and W-8

Taken: 10/17/2025 Facing: NW



Observations

View of the filled upland strip that divides wetland W-7 from wetland W-8.

18. Wetland W-8

Taken: 10/17/2025 Facing: SW



Observations

View of a stand of purple loosestrife within wetland W-8.

19. Wetland W-8

Observations View of wetland W-8.	Taken: 10/17/2025 Facing: NE 

20. Buffer of Wetland W-8

Observations View of the vegetated buffer south of wetland W-8.	Taken: 10/17/2025 Facing: NE 

21. Structure 24

Observations View of Structure 24 and the associated work area.	Taken: 10/17/2025 Facing: N 

22. Wetland W-10

Observations View of wetland W-10.	Taken: 10/17/2025 Facing: SE 

23. Wetland W-10 Buffer

Observations View of the buffer of wetland W-10.	Taken: 10/17/2025 Facing: NW 

24. Wetland W-11

Observations View of wetland W-11 and Structure 40.	Taken: 10/17/2025 Facing: W 

25. Wetland W-11 Buffer

Taken: 10/17/2025 Facing: NE



Observations

View of the buffer of wetland W-11 along Borthwick Avenue.

26. Wetland W-12

Taken: 10/17/2025 Facing: N



Observations

View of wetland W-12 and Structure 38.

27. Structure 39

Observations View of the base of Structure 39 within the commercial parking in the ROW.	Taken: 10/17/2025 Facing: E 

28. Wetland W-14 and Buffer of Wetland W-14

Observations View of wetland W-14 and the buffer of W-14.	Taken: 10/17/2025 Facing: E 

C

Tax Maps

Piscataqua River

GOSLING RD

JOHN PAUL JONES DR

PORTSMOUTH BLVD

Partial Legend

See the cover sheet for the complete legend.

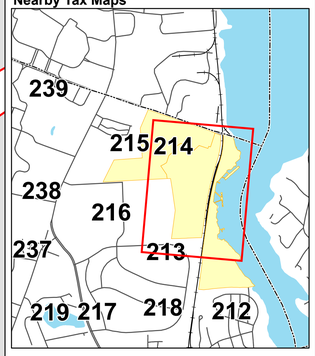
- 7-5A — Lot or lot-unit number
- 2.56 ac — Parcel area in acres (ac) or square feet (sf)
- Address number
- 233-137 — Parcel number from a neighboring map
- 68' — Parcel line dimension
- SIMS AVE — Street name
- Parcel/Parcel boundary
- Parcel/ROW boundary
- Water boundary
- Structure (1994 data)
- Parcel covered by this map
- Parcel from a neighboring map (see other map for current status)

0 50 100 200 300 Feet

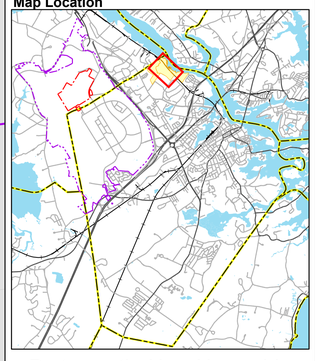
0 20 40 80 Meters

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.

Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2025

Tax Map 214

Partial Legend

See the cover sheet for the complete legend.

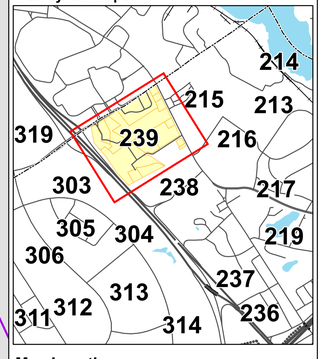
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1800	Address number
233-137	Parcel number from a neighboring map
68'	Parcel line dimension
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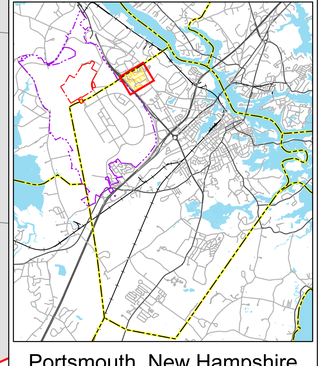
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Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2024

Tax Map 239

Partial Legend

See the cover sheet for the complete legend.

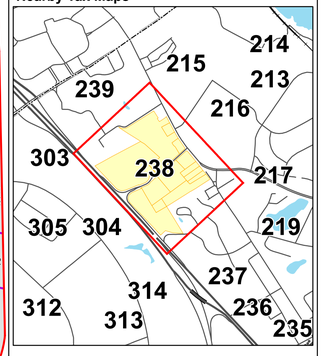
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0 50 100 200 300 Feet

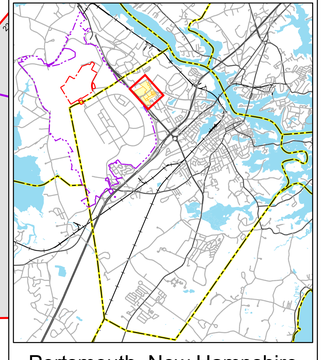
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Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2024

Tax Map 238

Partial Legend

See the cover sheet for the complete legend.

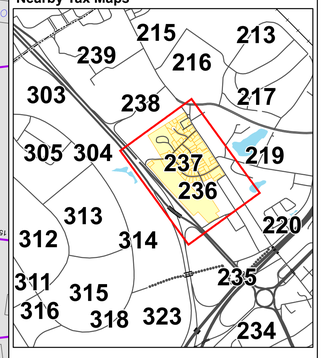
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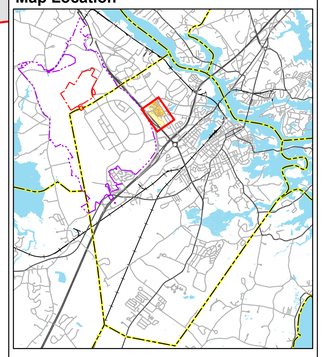
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Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2024

Tax Map 237

Partial Legend

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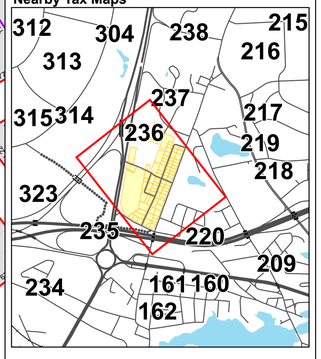
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0 50 100 200 300 Feet

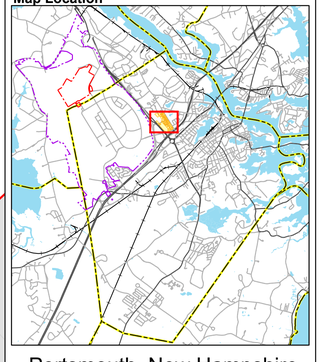
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Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2025

Tax Map 236

I-95 SOUTH

I-95 NORTH

BORTHWICK AVE

EILEEN DONDERO FOLEY AVE

SIMS AVE

621.45' 186.45' 197.10' 208.40' 183.51' 452.70' 730.82' 708.81' 182.05' 52.73' 600.00' 684.16' 710.84' 229.05' 190' 280' 110' 240.81' 125' 343' 393' 884.14' 233.66' 50' 254.15' 320.79' 1252.33' 478.64' 31.43' 126.68' 27.58' 108.71' 96.11' 5.79' 83.77' 436.55' 43.95' 143.78' 135.03' 406.9' 42.47' 80.00' 219.36' 198.49' 230.80' 46.55' 65.34' 688.00' 691.16' 470.93' 138.26' 16.59' 105.89' 8.50' 70.00' 765.51' 805.41' 51.1' 64.23' 304.86' 29.84' 167.39' 30.10' 17.34' 76.76' 26.46' 194.84' 910' 182.92' 473.55' 8.50' 110.10' 42.81' 473.20' 26.89' 54.91' 5.70' 70.96' 620.81' 261.07' 369' 278.67' 376.14' 241-16 241-25-1 100 234-7-4A 444 234-7-3 445 449 259-14-1 155 1 11.230 ac 229 555 2-1 20.870 ac 2-1001 9.060 ac 3 10.740 ac 2-2001 9.510 ac 550 2-3 4.970 ac 165-14

Partial Legend

See the cover sheet for the complete legend.

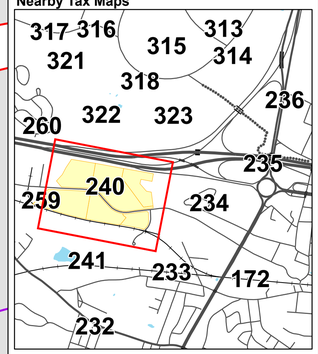
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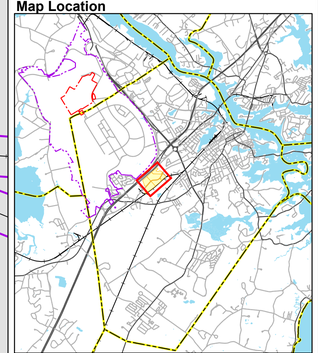
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Nearby Tax Maps



Map Location



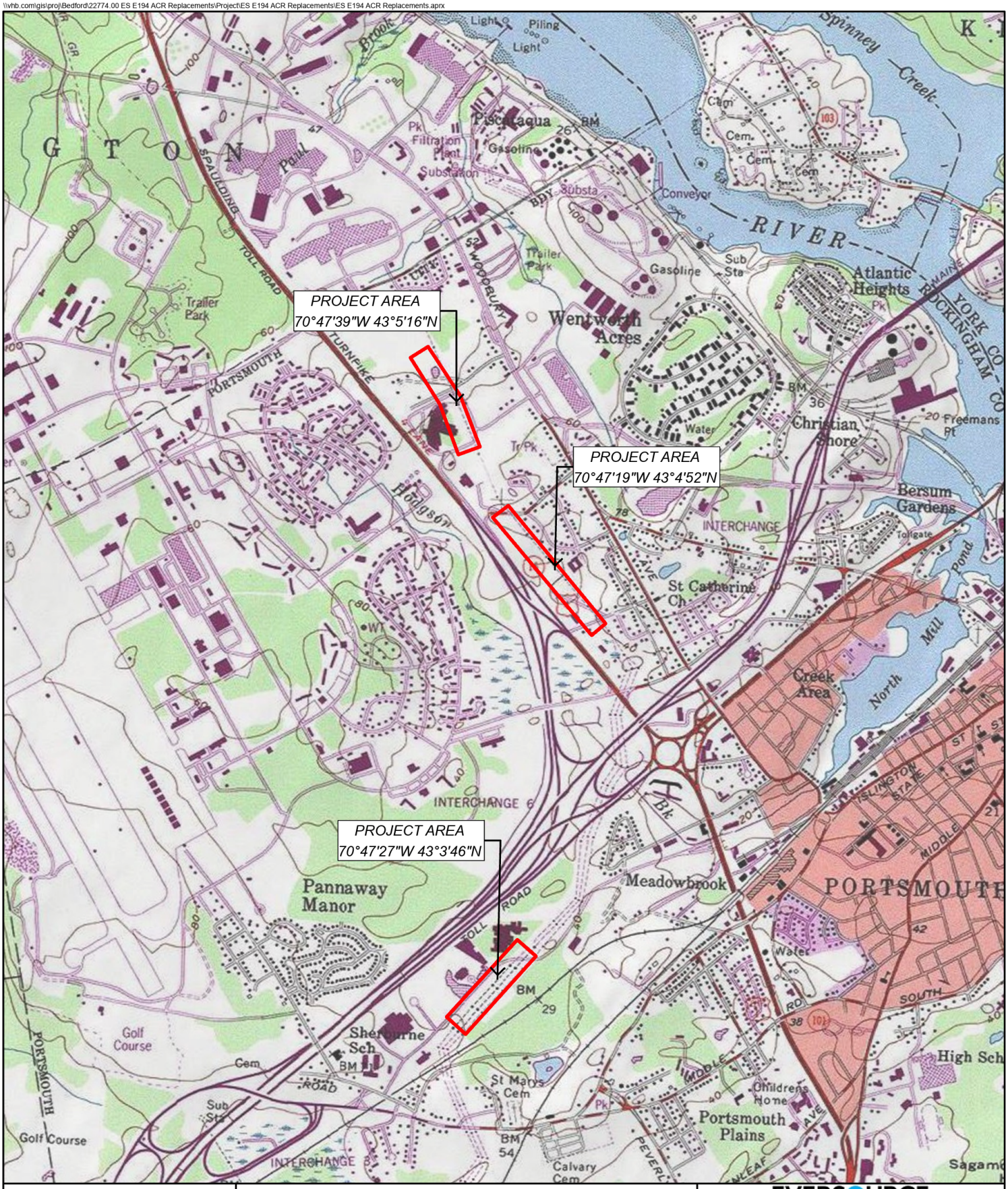
Portsmouth, New Hampshire
2025

Tax Map 240

D

USGS Location Map

\\vhb.com\gis\proj\Bedford\22774.00 ES E194 ACR Replacements\Project\ES E194 ACR Replacements\ES E194 ACR Replacements.aprx



INDEX MAP



Project Area

N

1 Inch = 2,000 feet

0 1,000 2,000 Feet

EVERSOURCE ENERGY

USGS - Site Locus Map
E194 Line Structure Replacement Project
Portsmouth, NH

Date: May 12, 2026

vhb

E

Functions and Values Assessments

Wetland Function-Value Evaluation Form

Total area of wetland 11,869 SF Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Commercial, utility ROW Distance to nearest roadway or other development 23 Feet

Dominant wetland systems present PSS1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? N/A

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. W-5

Latitude 43.0880 Longitude -70.79491

Prepared by: TD Date 1/5/2025

Wetland Impact:
Type Temporary Area 7422SF

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	N	4, 5, 15		No piezometer data was recorded. This low lying wetland receives discharge from adjacent uplands and roadways.
Floodflow Alteration	Y	3, 4, 5, 8, 9, 18		This wetland receives sheet flow from adjacent upslope impervious surfaces. The wetland can retain water during precipitation events.
Fish and Shellfish Habitat	N			No watercourse is associated with this wetland.
Sediment/Toxicant Retention	Y	1, 4, 5		This wetland is acting as a stormwater swale. It is receiving stormwater from adjacent uplands and impervious surfaces that may have S/T/P in runoff.
Nutrient Removal	Y	3, 4, 7, 8, 9, 10, 11	X	This wetland is heavily vegetated with scrub-shrub and emergent species that can process excess nutrients discharged from adjacent uplands.
Production Export	N	7		This wetland is functioning as a stormwater feature from the adjacent uplands, and from an observed culvert. Limited wildlife and human production functions.
Sediment/Shoreline Stabilization	N	2, 3		This wetland is not associated with a watercourse.
Wildlife Habitat	N	3, 7, 13, 19		Though this wetland provides cover and flora for fauna species, the wetland is dominated by invasive species, and not high valuable wildlife habitat.
Recreation	N			This wetland is located within a depressional area between multiple commercial developments.
Educational/Scientific Value	N	10		This wetland is located within a depressional area between multiple commercial developments. No viewing areas are present.
Uniqueness/Heritage	N	1, 2, 9, 17		This wetland is located within a depressional area between multiple commercial developments. No viewing areas are present.
Visual Quality/Aesthetics	N	9, 12		This wetland is located within a depressional area between multiple commercial developments. No viewing areas are present.
ES Endangered Species Habitat	Y			It is unknown if RTE species utilize this habitat. No species were observed during surveys, but NHFG has identified species within the vicinity.
Other				Ecological integrity was also assessed during FVA. This form is attached within this application package.

Notes:

* Refer to backup list of numbered considerations.

NH METHOD FOR THE EVALUATION OF FRESHWATER WETLANDS *(revised December, 2015)*

Wetland Name/Code: W-5 Evaluation Date: 1/5/2026 Evaluator: Trent Delehanty, CWS

1 – ECOLOGICAL INTEGRITY

Evaluation Questions	Observations & Notes	Answers	Score
1. Are there land uses in the wetland's watershed that could degrade water quality in the wetland?	Adjacent wetland land use are commercial developements.	a. Less than 5% of the watershed has land uses that could degrade water quality. b. 5-10% of the watershed has land uses that could degrade water quality. c. > 10% of the watershed has land uses that could degrade water quality.	10 5 1
2. Is there evidence of fill in the wetland?	No fill was observed within the wetland.	a. Less than 1 % b. From 1-3 % c. More than 3 %	10 5 1
3. What percentage of the wetland has been altered by agricultural activities?	No agricultural activities were observed within the wetland.	a. Less than 5 % b. From 5 to 25 % c. More than 25 %	10 5 1
4. What percentage of the wetland has been adversely impacted by logging activity within the last 10 years?	This wetland contained little forested cover types, and no evidence of logging was observed.	a. Less than 1% b. From 1 to 10 % c. More than 10 %	10 5 1
5. How much human activity is taking place in the wetland (e.g. ATV use, trails, cars, dumping of brush and garbage, etc.)?	Dumping was observed within the wetland.	a. Low: Few trails in use, little or no traffic, and little or no litter. b. Moderate: Some used trails, roads, litter c. High: Many trails, roads, and/or litter	10 5 1
6. What percentage of the wetland is occupied by invasive plant species?	Wetland was noted as containing 75% invasive species.	a. None b. 1-5% of the wetland has invasive species c. > 5% of the wetland has invasive species	10 5 1
7. Are there roads, driveways and/or railroads crossing or adjacent to the wetland or come within 500 ft. of the wetland?	The wetland is developed within 500 feet in each cardinal direction.	a. No roads, driveways or railroads. within 500 ft. of, or in the wetland b. Roads, driveways, railroads are within 500 ft of the wetland c. Roads, driveways, railroads cross, or are adjacent to, the wetland	10 5 1
8. How much human activity is taking place in the upland within 500 feet of the wetland edge?	Commercial parking facilities and businesses are present throughout the wetland edge	a. Less than 5% or no activity b. Human activity evident in up to 25% of the 500 ft zone c. Human activity evident in more than 25% of the 500 ft zone	10 5 1
9. What is the percent of impervious surface within 500 feet of the wetland edge?	Impervious commercial parking facilities and businesses are present throughout the wetland edge	a. Less than 3% impervious area within 500 ft of the wetland edge b. 3-10% impervious area within 500 ft of the wetland edge c. Greater than 10% impervious area within 500 ft of the wetland edge	10 5 1
10. Is there a human-made structure that regulates the flow of water through the wetland?	A discharge culvert was documented upslope of the wetland and contributes to the hydrology of the wetland	a. No human made structures present **upstream of, or in** the wetland. b. One or more human made structures present **upstream of, or** in the wetland but hydrologic modification is slight c. One or more human made structures present **upstream of, or** in the wetland that severely block or alter surface water hydrology	10 5 1

AVERAGE SCORE FOR ECOLOGICAL INTEGRITY
(Add scores for each question and divide by 10) 4.1

Wetland Function-Value Evaluation Form

Total area of wetland 71,973 SF Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Commercial, residential, utility ROW, forested Distance to nearest roadway or other development 92 Feet

Dominant wetland systems present PEM1C/E, PEM5C/E Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. W-7

Latitude 43.0812 Longitude -70.8891

Prepared by: TD Date 1/5/2025

Wetland Impact:
Type Temporary Area 10,202

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	2, 6,		This low lying wetland collects sheet flow and discharge from upslope uplands. Piezometer reading were taken, but it likely serves as groundwater recharge.
Floodflow Alteration	Y	3, 4, 5, 6, 8, 9, 11	X	This low lying wetland has the traits of being effective for flood storage during precipitation, discharge, or snow metl.
Fish and Shellfish Habitat	N			No watercourse suitable for fish and shellfish is associated with this wetland.
Sediment/Toxicant Retention	N	1, 4		This wetland is not associated with a watercourse, and only holds water seasonally.
Nutrient Removal	Y	3, 4, 7, 8, 9, 10, 11	X	This wetland contains a dense stand of vegetation that can process trapped nutrients.
Production Export	N	7		This wetland has little production value due to the abundance of invasive species, lack of wildlife value, and lack of economically or commercially viability.
Sediment/Shoreline Stabilization	N	2, 3		This wetland lacks open water and a shoreline to stabilize.
Wildlife Habitat	N	3, 7, 13, 19		Invasive species are present throughout, and generally low wildlife value vegetation dominates the stand.
Recreation	N			Wetland is within a privately owned parcel with no recreationally viable water.
Educational/Scientific Value	N	8, 14		Wetland is dominated by invasive species and within a Utility ROW. Tripping hazards and dumping was present.
Uniqueness/Heritage	N	1, 17		It is unknown if RTE species utilize this area for habitat. This wetland is dominated by invasive species and does not have a unique plant community.
Visual Quality/Aesthetics	N	6, 12		The wetland is within a Utility ROW and has limited access, no viewing areas, and limited visual quality function.
ES Endangered Species Habitat	Y			It is unknown if RTE species utilize this habitat. No species were observed during surveys, but NHFG has identified species within the vicinity.
Other				Ecological integrity was also assessed during FVA. This form is attached within this application package.

Notes: The northern extent of this wetland was not surveyed outside of the ROW.

* Refer to backup list of numbered considerations.

NH METHOD FOR THE EVALUATION OF FRESHWATER WETLANDS *(revised December, 2015)*

Wetland Name/Code: W-7 Evaluation Date: 1/5/2026 Evaluator: Trent Delehanty, CWS

1 – ECOLOGICAL INTEGRITY

Evaluation Questions	Observations & Notes	Answers	Score
1. Are there land uses in the wetland's watershed that could degrade water quality in the wetland?	Adjacent wetland uses are primarily commercial and residential with impervious surfaces abundant.	a. Less than 5% of the watershed has land uses that could degrade water quality. b. 5-10% of the watershed has land uses that could degrade water quality. c. > 10% of the watershed has land uses that could degrade water quality.	10 5 1
2. Is there evidence of fill in the wetland?	Wetland was likely historically filled and contiguous with wetland W-8.	a. Less than 1 % b. From 1-3 % c. More than 3 %	10 5 1
3. What percentage of the wetland has been altered by agricultural activities?	No agricultural activities were observed within the wetland.	a. Less than 5 % b. From 5 to 25 % c. More than 25 %	10 5 1
4. What percentage of the wetland has been adversely impacted by logging activity within the last 10 years?	This wetland contained little forested cover types, and no evidence of logging was observed.	a. Less than 1% b. From 1 to 10 % c. More than 10 %	10 5 1
5. How much human activity is taking place in the wetland (e.g. ATV use, trails, cars, dumping of brush and garbage, etc.)?	Some dumping was observed. Access way has some evidence of trail use.	a. Low: Few trails in use, little or no traffic, and little or no litter. b. Moderate: Some used trails, roads, litter c. High: Many trails, roads, and/or litter	10 5 1
6. What percentage of the wetland is occupied by invasive plant species?	Wetland was noted as containing 35% invasive species.	a. None b. 1-5% of the wetland has invasive species c. > 5% of the wetland has invasive species	10 5 1
7. Are there roads, driveways and/or railroads crossing or adjacent to the wetland or come within 500 ft. of the wetland?	Development is within the vicinity of the wetland.	a. No roads, driveways or railroads. within 500 ft. of, or in the wetland b. Roads, driveways, railroads are within 500 ft of the wetland c. Roads, driveways, railroads cross, or are adjacent to, the wetland	10 5 1
8. How much human activity is taking place in the upland within 500 feet of the wetland edge?	Commercial and residential development is within the vicinity of the wetland.	a. Less than 5% or no activity b. Human activity evident in up to 25% of the 500 ft zone c. Human activity evident in more than 25% of the 500 ft zone	10 5 1
9. What is the percent of impervious surface within 500 feet of the wetland edge?	There are multiple residential and commercial buildings within the 500 foot edge of this wetland.	a. Less than 3% impervious area within 500 ft of the wetland edge b. 3-10% impervious area within 500 ft of the wetland edge c. Greater than 10% impervious area within 500 ft of the wetland edge	10 5 1
10. Is there a human-made structure that regulates the flow of water through the wetland?	No human-made structures were observed within the wetland.	a. No human made structures present **upstream of, or in** the wetland. b. One or more human made structures present **upstream of, or** in the wetland but hydrologic modification is slight c. One or more human made structures present **upstream of, or** in the wetland that severely block or alter surface water hydrology	10 5 1

AVERAGE SCORE FOR ECOLOGICAL INTEGRITY
(Add scores for each question and divide by 10) 5.7

Wetland Function-Value Evaluation Form

Total area of wetland 54,994+ SF Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Commercial, residential, utility ROW, forested Distance to nearest roadway or other development 23 Feet

Dominant wetland systems present PEM1C Contiguous undeveloped buffer zone present No

Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin?

How many tributaries contribute to the wetland? 0 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. W-8

Latitude 43.0805 Longitude -70.8802

Prepared by: TD Date 1/5/2025

Wetland Impact:
Type Temporary Area 2,729

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	2, 6,		This low lying wetland collects sheet flow and discharge from upslope uplands. Piezometer reading were taken, but it likely serves as groundwater recharge.
Floodflow Alteration	Y	3, 4, 5, 6, 8, 9, 11	X	This low lying wetland has the traits of being effective for flood storage during precipitation, discharge, or snow melt.
Fish and Shellfish Habitat	N			No watercourse suitable for fish and shellfish is associated with this wetland.
Sediment/Toxicant Retention	N	1, 4		This wetland is not associated with a watercourse, and only holds water seasonally.
Nutrient Removal	Y	3, 4, 7, 8, 9, 10, 11	X	This wetland contains a dense stand of vegetation that can process trapped nutrients.
Production Export	N	7		This wetland has little production value due to the abundance of invasive species, lack of wildlife value, and lack of economically or commercially viability.
Sediment/Shoreline Stabilization	N	2, 3		This wetland lacks open water and a shoreline to stabilize.
Wildlife Habitat	N	3, 7, 13, 19		Invasive species are present throughout, and generally low wildlife value vegetation dominates the stand.
Recreation	N			Wetland is within a privately owned parcel with no recreationally viable water.
Educational/Scientific Value	N	8, 14		Wetland is dominated by invasive species and within a Utility ROW. Tripping hazards and dumping was present.
Uniqueness/Heritage	N	1, 17		It is unknown if RTE species utilize this area for habitat. This wetland is dominated by invasive species and does not have a unique plant community.
Visual Quality/Aesthetics	N	6, 12		The wetland is within a Utility ROW and has limited access, no viewing areas, and limited visual quality function.
ES Endangered Species Habitat	Y			It is unknown if RTE species utilize this habitat. No species were observed during surveys, but NHFG has identified species within the vicinity.
Other				Ecological integrity was also assessed during FVA. This form is attached within this application package.

Notes: The northern extent of this wetland was not surveyed outside of the ROW.

* Refer to backup list of numbered considerations.

NH METHOD FOR THE EVALUATION OF FRESHWATER WETLANDS *(revised December, 2015)*

Wetland Name/Code: W-8 Evaluation Date: 1/5/2026 Evaluator: Trent Delehanty, CWS

1 – ECOLOGICAL INTEGRITY

Evaluation Questions	Observations & Notes	Answers	Score
1. Are there land uses in the wetland's watershed that could degrade water quality in the wetland?	Adjacent wetland uses are primarily commercial and residential with impervious surfaces abundant.	a. Less than 5% of the watershed has land uses that could degrade water quality. b. 5-10% of the watershed has land uses that could degrade water quality. c. > 10% of the watershed has land uses that could degrade water quality.	10 5 1
2. Is there evidence of fill in the wetland?	Wetland was likely historically filled and contiguous with wetland W-7.	a. Less than 1 % b. From 1-3 % c. More than 3 %	10 5 1
3. What percentage of the wetland has been altered by agricultural activities?	No agricultural activities were observed within the wetland.	a. Less than 5 % b. From 5 to 25 % c. More than 25 %	10 5 1
4. What percentage of the wetland has been adversely impacted by logging activity within the last 10 years?	This wetland contained little forested cover types, and no evidence of logging was observed.	a. Less than 1% b. From 1 to 10 % c. More than 10 %	10 5 1
5. How much human activity is taking place in the wetland (e.g. ATV use, trails, cars, dumping of brush and garbage, etc.)?	Some dumping was observed. Access way has some evidence of trail use.	a. Low: Few trails in use, little or no traffic, and little or no litter. b. Moderate: Some used trails, roads, litter c. High: Many trails, roads, and/or litter	10 5 1
6. What percentage of the wetland is occupied by invasive plant species?	Wetland was noted as containing 30% invasive species.	a. None b. 1-5% of the wetland has invasive species c. > 5% of the wetland has invasive species	10 5 1
7. Are there roads, driveways and/or railroads crossing or adjacent to the wetland or come within 500 ft. of the wetland?	Development is within the vicinity of the wetland.	a. No roads, driveways or railroads. within 500 ft. of, or in the wetland b. Roads, driveways, railroads are within 500 ft of the wetland c. Roads, driveways, railroads cross, or are adjacent to, the wetland	10 5 1
8. How much human activity is taking place in the upland within 500 feet of the wetland edge?	Commercial and residential development is within the vicinity of the wetland.	a. Less than 5% or no activity b. Human activity evident in up to 25% of the 500 ft zone c. Human activity evident in more than 25% of the 500 ft zone	10 5 1
9. What is the percent of impervious surface within 500 feet of the wetland edge?	There are multiple residential and commercial buildings within the 500 foot edge of this wetland.	a. Less than 3% impervious area within 500 ft of the wetland edge b. 3-10% impervious area within 500 ft of the wetland edge c. Greater than 10% impervious area within 500 ft of the wetland edge	10 5 1
10. Is there a human-made structure that regulates the flow of water through the wetland?	One culvert was noted on the western boundary of the site. This is likely a discharge location.	a. No human made structures present **upstream of, or in** the wetland. b. One or more human made structures present **upstream of, or** in the wetland but hydrologic modification is slight c. One or more human made structures present **upstream of, or** in the wetland that severely block or alter surface water hydrology	10 5 1

AVERAGE SCORE FOR ECOLOGICAL INTEGRITY
(Add scores for each question and divide by 10) 5.2

Wetland Function-Value Evaluation Form

Total area of wetland 230,856+ SF Human made? No Is wetland part of a wildlife corridor? Yes or a "habitat island"?

Adjacent land use Commercial, Forested Distance to nearest roadway or other development Adjacent

Dominant wetland systems present PEM1/5E, PSS1E 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? Low

How many tributaries contribute to the wetland? Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. W-11 and W-12

Latitude 43.0423 Longitude -70.81234

Prepared by: TD Date 1/5/2026

Wetland Impact:
Type Temporary Area 16,351 SF

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	2, 6, 7, 12, 15	X	No piezometer readings were taken in the field. Wetland is large and is a Prime Wetland. Large wetland retains floodflow, and recharges groundwater.
Floodflow Alteration	Y	1, 3, 4, 5, 6, 8, 9, 11, 13, 18	X	No watercourse was observed during field surveys or within the NWI mapping tool. The large wetland can retain high volumes of water.
Fish and Shellfish Habitat	N			No watercourse is associated with this wetland.
Sediment/Toxicant Retention	Y	1, 3, 4, 5, 7, 8	X	This wetland is large and has potential to trap sediments, toxicants, or pathogens from upland runoff.
Nutrient Removal	Y	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	X	This large wetland has a potential to trap excess nutrients and has a dense stand of primarily emergent vegetation to process excess nutrients.
Production Export	N	7, 12		This wetland provides limited production for wildlife as much of the wetland is dominated by invasive species. No commercially viable species were present.
Sediment/Shoreline Stabilization	N	2, 3		No watercourses were observed or found on the NWI mapping tool. Wetland is of adequate size and composition to stabilize shoreline if present.
Wildlife Habitat	N	7, 9, 11, 13, 19, 20		The size and saturation of this wetland provides habitat for wildlife species. The plant composition observed was primarily invasive species.
Recreation	N	1, 10, 11		This wetland can be easily access as a parking area is present on the western boundary. No recreational viable watercourse was present.
Educational/Scientific Value	N	6, 8, 11, 14		This wetland is large, and is protected by the City of Portsmouth as a Prime wetland. Access is available at parking areas.
Uniqueness/Heritage	Y	1, 2, 3, 4, 5, 9, 13, 17, 27		The wetland is defined as a prime wetland within the City of Portsmouth and provides functions for flood storage and nutrient cycling.
Visual Quality/Aesthetics	N	2, 6, 12		A walking bridge between the two parking areas provides a viewing area, but dominant species within the observed portion of the wetland were invasive.
ES Endangered Species Habitat	Y			It is unknown if RTE species utilize this habitat. No species were observed during surveys, but NHFG has identified species within the vicinity.
Other				Ecological integrity was also assessed during FVA. This form is attached within this application package.

Notes:

* Refer to backup list of numbered considerations.

This wetland was mapped within the project area of the ROW. These two wetlands are part of a large wetland that extends outside of the ROW and study area. This form describes this feature as a whole.

NH METHOD FOR THE EVALUATION OF FRESHWATER WETLANDS *(revised December, 2015)*

Wetland Name/Code: W-11 and W-12 Evaluation Date: 1/5/2026 Evaluator: Trent Delehanty, CWS

1 – ECOLOGICAL INTEGRITY

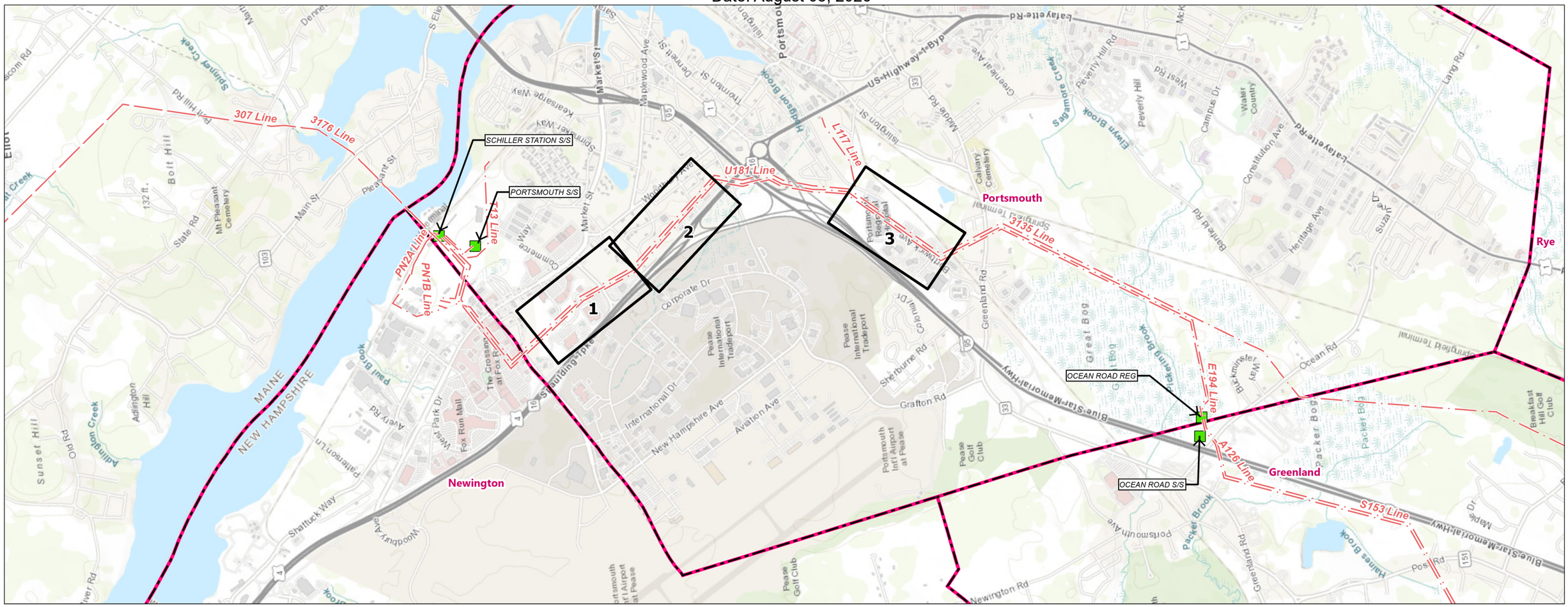
Evaluation Questions	Observations & Notes	Answers	Score
1. Are there land uses in the wetland's watershed that could degrade water quality in the wetland?	The wetland is adjacent to commercial development and is bisected by a railway.	a. Less than 5% of the watershed has land uses that could degrade water quality. b. 5-10% of the watershed has land uses that could degrade water quality. c. > 10% of the watershed has land uses that could degrade water quality.	10 5 1
2. Is there evidence of fill in the wetland?	No fill was observed during surveys but fill likely exists where the railroad and development exist.	a. Less than 1 % b. From 1-3 % c. More than 3 %	10 5 1
3. What percentage of the wetland has been altered by agricultural activities?	No agricultural activities were observed within the wetland.	a. Less than 5 % b. From 5 to 25 % c. More than 25 %	10 5 1
4. What percentage of the wetland has been adversely impacted by logging activity within the last 10 years?	No logging impacts were observed within the wetland.	a. Less than 1% b. From 1 to 10 % c. More than 10 %	10 5 1
5. How much human activity is taking place in the wetland (e.g. ATV use, trails, cars, dumping of brush and garbage, etc.)?	Trash was observed within the wetland. A railroad crossing bisects the wetland.	a. Low: Few trails in use, little or no traffic, and little or no litter. b. Moderate: Some used trails, roads, litter c. High: Many trails, roads, and/or litter	10 5 1
6. What percentage of the wetland is occupied by invasive plant species?	Portions of the wetland were dominated by *Phragmites australis*	a. None b. 1-5% of the wetland has invasive species c. > 5% of the wetland has invasive species	10 5 1
7. Are there roads, driveways and/or railroads crossing or adjacent to the wetland or come within 500 ft. of the wetland?	Roadways and railways abut the wetland.	a. No roads, driveways or railroads. within 500 ft. of, or in the wetland b. Roads, driveways, railroads are within 500 ft of the wetland c. Roads, driveways, railroads cross, or are adjacent to, the wetland	10 5 1
8. How much human activity is taking place in the upland within 500 feet of the wetland edge?	Human activity is present along the western and southern boundaries of the wetland.	a. Less than 5% or no activity b. Human activity evident in up to 25% of the 500 ft zone c. Human activity evident in more than 25% of the 500 ft zone	10 5 1
9. What is the percent of impervious surface within 500 feet of the wetland edge?	Two large parking lots and a roadway abut this wetland.	a. Less than 3% impervious area within 500 ft of the wetland edge b. 3-10% impervious area within 500 ft of the wetland edge c. Greater than 10% impervious area within 500 ft of the wetland edge	10 5 1
10. Is there a human-made structure that regulates the flow of water through the wetland?	No culverts or structures were observed during surveys.	a. No human made structures present **upstream of, or in** the wetland. b. One or more human made structures present **upstream of, or** in the wetland but hydrologic modification is slight c. One or more human made structures present **upstream of, or** in the wetland that severely block or alter surface water hydrology	10 5 1

AVERAGE SCORE FOR ECOLOGICAL INTEGRITY
(Add scores for each question and divide by 10) 4.4

E194 Line - Structure Replacement Project

Portsmouth, NH
Environmental Resources Map

Date: August 03, 2026



Legend

- Substation
- Map Sheet
- Municipal Boundary
- Overhead Eversource Line

N

0 0.25 0.5 Miles

INDEX OF FIGURES

Title Sheet / Index Map
Map Sheet 1-3

Map Notes:
Coordinate System: NAD 1983 StatePlane New Hampshire FIPS 2800 Feet

Date Source: Existing ROW Lines, Structures, and Transmission Lines provided by Eversource Energy. Wetlands and Watercourses delineated and certified by VHB. Additional sources include: FEMA, and NH GRANIT.

PREPARED FOR:

EVERSOURCE ENERGY

13 Legends Drive
Hookset, NH 03106

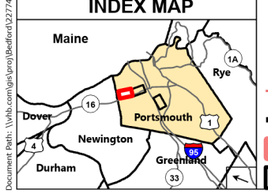
PREPARED BY:

vhb

2 Bedford Farms Drive
Suite 200
Bedford, NH 03110



INDEX MAP



- Existing Strucure
- Existing Structure to be Replaced
- Proposed
- Overhead Eversource Line
- Existing Right-of-Way (ROW)
- Eversource Owned Property
- Work Pad
- Sediment Control Barrier
- 100' Buffer to BVW
- Delineated Stream
- Watercourse (not delineated)
- Delineated Wetland Edge
- Field Delineated Wetland
- Previous Delineated Wetland
- Gate
- Existing Access
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- Off-ROW Access Pending Rights
- Temporary Construction Matting
- Upland Matting
- Tidal waters
- Flood plain wetlands adjacent to Tier 3 streams
- Prime Wetlands with 100ft buffer
- Prime Wetlands
- FEMA 100-Year Flood Zone
- Turtle Overwintering Area
- Culvert
- Stonewall
- Railroad
- 2-foot Contour
- 10-foot Contour
- Delineated Very Poorly Drained Soils
- NRCS Very Poorly Drained Soils
- Municipal Boundary
- Parcel Boundary

1 Inch = 200 Feet
0 100 200 Feet

EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

Portsmouth, NH | MAP SHEET 1 of 3

Date: August, 2026

vhb

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Right of Way boundaries, easements, fee property, substation, and junction locations depicted as points, lines, polygons and corresponding attribute data is to be considered approximate and not to be construed as the result of a field survey.

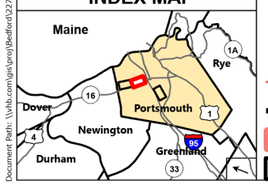
WHOLEY WAY
HILLCREST DR
ECHO AVE
WOODLAWN CIR
LONGMEADOW LN
MAPLE ST
MEADOW RD
WOODBURY AVE
FARM LN
CLOVER LN
PORTSMOUTH
OMNE MALL CONNECTOR
Hodgson Brook

TEMPORARY WETLAND IMPACT: 8,900 SF
TEMPORARY UPLAND MATTING: 5,742 SF
TEMPORARY UPLAND MATTING: 330 SF
TEMPORARY WETLAND IMPACT: 1,555 SF
TEMPORARY UPLAND MATTING: 8,445 SF
TEMPORARY WETLAND IMPACT: 686 SF
TEMPORARY UPLAND MATTING: 1,099 SF
TEMPORARY WETLAND IMPACT: 1,302 SF
TEMPORARY WETLAND IMPACT: 1,174 SF
TEMPORARY UPLAND MATTING: 1,663 SF
TEMPORARY UPLAND MATTING: 4,033 SF

W-7 PEM1C
W-8 PEM1C
W-9 PEM1E
W-10 PEM1C PEM5C/E
PEM5C/E
PEM1C/E

3135 Line
U181 Line
E194 Line

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EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

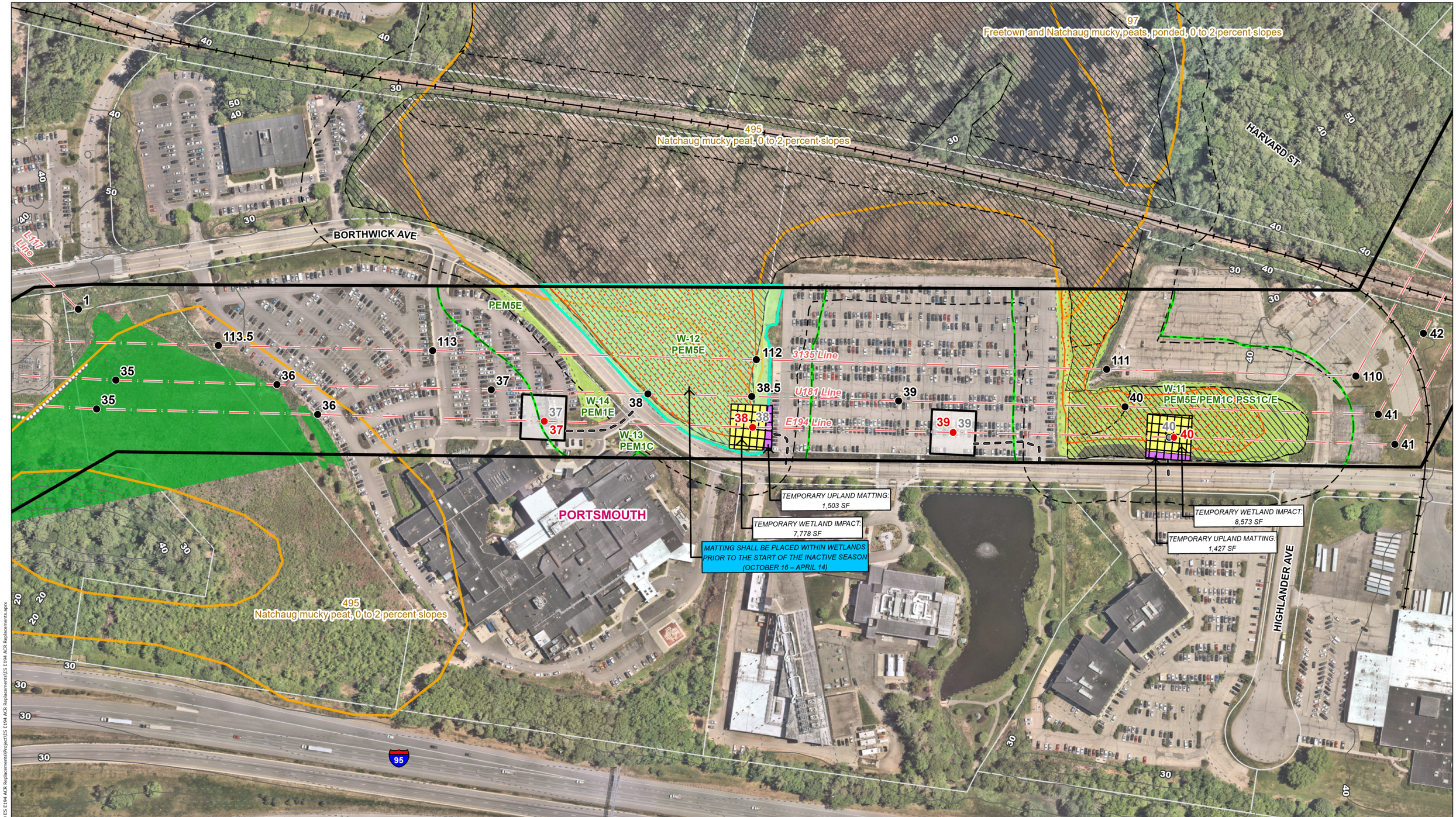
Portsmouth, NH | MAP SHEET 2 of 3

Date: August, 2026

vhb

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Right of Way boundaries, easements, fee property, substation, and junction locations depicted as points, lines, polygons and corresponding attribute data is to be considered approximate and not to be construed as the result of a field survey.



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1 Inch = 200 Feet
0 100 200 Feet

EVERSOURCE ENERGY

E194 Transmission Line Structure Replacement Project

Portsmouth, NH | MAP SHEET 3 of 3

Date: August, 2026

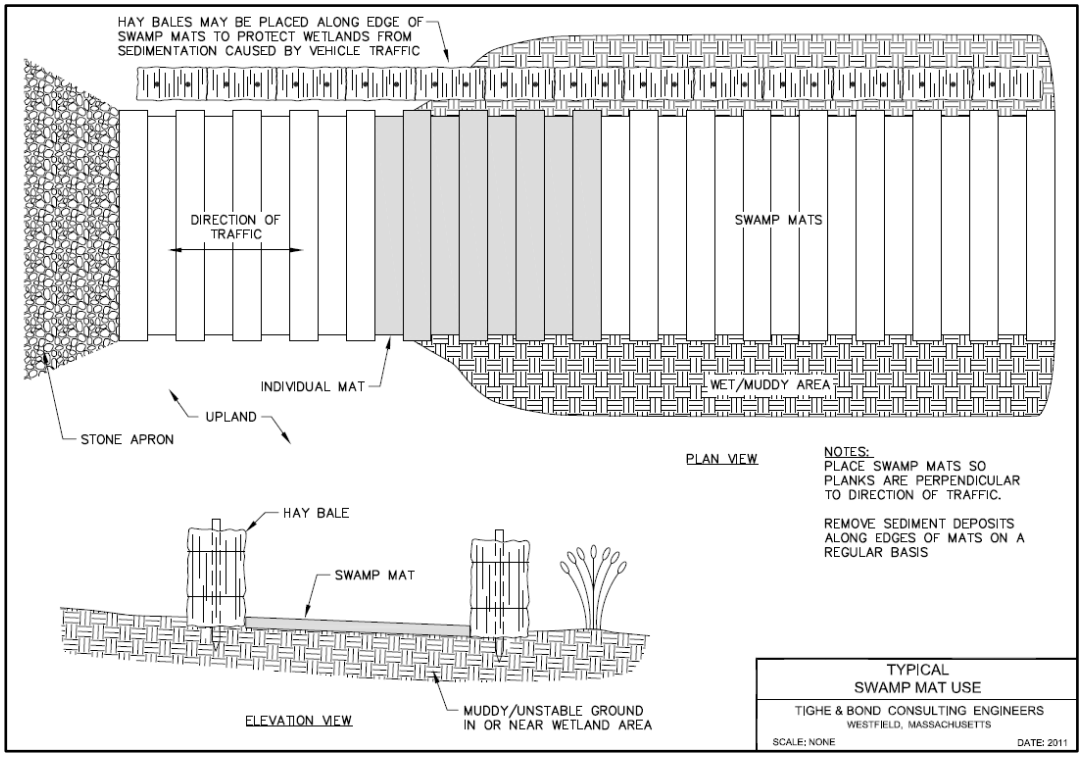
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Swamp Mat Detail and Description





Description

Pre-fabricated mats are pads that can support the weight of equipment and prevent both rutting and disturbance of soils. These mats can be used for crossing wetlands or watercourses, or for providing a stable work platform to conduct repairs and maintenance activities. Mats are constructed of several different types of materials, including wood and plastic.

Considerations

- Minimize impact to wetland areas during installation, use and removal.
- Swamp mats should be removed as soon as possible following completion of maintenance activities to reduce compaction of the underlying soil.

Installation

- Install and remove in accordance with manufacturer's instructions, if applicable.
- Place mats in a location that will minimize the length needed for crossing.
- Mats may be used to cross small streams, provided the mat does not disturb the bed or banking.
- Where possible, place mats so that they are not overtopped with water and equipment can work in the dry.
- Place mats so that they do not restrict the natural flow of water or aquatic organism passage.
- Remove mats from wetland areas once the crossing or maintenance activity is completed.
- Do not reuse mats that have been placed in areas of invasive species until they have been cleaned and inspected.

Inspection and Maintenance

- Inspect after each use.
- Look for any defects or structural problems.
- Remove remaining plant material left on mats.

Eversource Overhead Transmission Line Standards

Access Roads and Structure Work Sites Eversource Approved by: (CT/WMA), (NH/EMA) Construction and Commissioning Standard Eversource Confidential Information OTRM 231.2 Rev. 3 09/26/2018

1) Access roads shall be constructed to a quality which generally allows the unobstructed passage for Eversource following construction operation. However, it is Eversource's intent to construct the minimal road consistent with the stated purpose.

2) Access roads shall be restricted to the travel surface no greater than 16 foot in width provided for in the clearing operations by others. This travel surface may exceed 16 feet in approved locations for the safe passage of vehicles and equipment due to location specific locations and/or for turning locations. These locations shall be clearly marked on the Project mapping. Subgrading for access roads shall not extend beyond the space required for the finished road.

3) The following types of access roads may be required:

    a) Undisturbed existing grade where natural conditions and the traffic to be imposed permit.

    b) As in (a) above with spot stripping to subgrade and/or spot bank run gravel fill.

    c) Continuous bank run gravel fill.

    d) Gravel topping over brush laid in access road.

    e) Traprock base with gravel topping. Traprock of various size gradations up to 2" to 4" mix as required by site conditions.

    f) Wood slab and gravel, in very soft and wet locations.

    The Eversource Representative shall direct the type of road to be installed within the various sections on the right-of-way. The Eversource Representative shall also direct the depth and/or quantity of materials to be placed in each type of road and shall rule on the acceptability of the material provided.

4) The following material and compaction requirements shall be followed:

    a) Where practical, existing road gravel material may be used to re-grade the road cross-sectional and longitudinally to provide a suitable sub-base.

    b) If existing roadway material is unsuitable, material shall be added as required by sub-surface conditions. Supplemental material shall be added in 6-inch lifts and compacted.

    c) Sub-base shall be a minimum of 6-inch compacted.

    d) No less than 6 inches of new material shall be required to reconstruct roadway.

    e) Wearing surface shall be 1-1/2 inch minus manufactured dense grade compacted to a thickness of not less than 3 inches.

    f) Wearing surface shall be sloped in accordance with Eversource BMPs.

5) The construction of access roads shall not create an impediment to or siltation of natural drainage. The Contractor shall install corrugated metal culverts in size, number and location as the Eversource Representative may direct. As an alternate, the Eversource Representative may direct a traprock base to be laid in minor stream crossings. The Eversource Representative may direct the removal of such culverts and crossings upon completion of line construction operations in that area. Water control measures and specifications implemented for improvements of existing access roads or construction of new access roads must comply with the current version of the Eversource BMPs.

    Existing elevated roads with established water run off controls can be improved and regraded to the existing elevated level at the discretion of Eversource construction and with Eversource approval.

6) Where practicable, based on topography and soil conditions, a typical new access road shall be constructed by scraping the existing top soil to a stable sub-straight and adding compaction material up to the original grade prior to road installation. A slight crown in the road is acceptable to facilitate water run off but shall be minimal. Effort

shall be made to maintain the existing grade to minimize the rerouting of storm water run-off and to not affect the travel of animal species native to the area.

7) Should field conditions warrant, the Eversource Representative may direct the installation and subsequent removal of traprock siltation filters or desiltation basins.

8) Access road surfaces shall be blade smooth in the traveled way in preparation for use by others. Side slopes and any similar new or disturbed surfaces off the traveled way shall be similarly shaped to avoid an unkempt appearance during subsequent construction operations. Wearing surface shall be sloped in accordance with Eversource BMPs.

9) Where a grade cut is necessary due to change in elevation, the cut edge shall slope no greater than 2:1 from adjacent land. If a 2:1 slope is not achievable, rip rap, a retaining wall or other approved slope stabilization measures shall be used to create and maintain a stable slope.

10) In appropriate season, hand seeding of side slopes or similar disturbed areas in new work may be required as the Eversource Representative may direct.

Where practicable, windrows shall be taken down to match the existing grade along the road edges, with excess material spread uniformly just beyond the limits of roadway in uplands. Excess roadway material shall be removed when volumes exceed the ability to spread immediately adjacent to the roadway. For environmentally sensitive areas (i.e. wetlands, locations of high cultural sensitivity, Natural Diversity Data Base areas, Natural Heritage Endangered Species Program areas, etc.). Eversource shall be consulted for specific requirements according to the conditions of the Project permits and approvals or agency agreements.



McFARLAND JOHNSON

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June 29, 2026

Samantha Collins
Conservation Commission Chair
City of Portsmouth
1 Junkins Avenue
Portsmouth, NH 03801

Re: Peverly Hill Road Improvements, City of Portsmouth Project

Dear Ms. Collins,

On behalf of the City of Portsmouth Department of Public Works, the applicant for the subject project, we are requesting a City of Portsmouth Wetland Conditional Use Permit for the proposed improvements to Peverly Hill Road. The City has obtained Federal Highway Administration Congestion Management and Air Quality funding for this project through the NH Department of Transportation (NHDOT). The project is being administered through the NHDOT Local Public Agency (LPA) Program. Details about the proposed project are provided in this permit application package and additional information can be found on the City's website:

https://www.portsmouthnh.gov/city/projects/peverly-hill-road-complete-street

The project consists of reconstructing an approximately 1-mile section of Peverly Hill Road between West Road and Middle Road (NH Route 33) in Portsmouth, New Hampshire**.** Peverly Hill Road is a primary route for vehicles, bicyclists, pedestrians traveling to and from NH Route 33 and Interstate 95 to the west and Lafayette Road (US Route 1), Mirona Road, and Banfield Road to the east. Peverly Hill Road also serves as a connector route to numerous recreation sites in this section of the City of Portsmouth.

The purpose of the project is to enhance safety for all modes of travel (vehicles, bicyclists, and pedestrians) in conformance with the City of Portsmouth's Complete Street Policy adopted in 2013. The need for the project is demonstrated by a lack of bicycle and pedestrian accommodations within the project area, through which motor vehicles travel at high rates of speed. There are also several locations with sight distance restrictions and drainage problems along the roadway that contribute to safety issues.

The existing roadway is a two-lane road connecting NH Route 33 and Interstate 95 to US Route 1. According to the latest traffic data obtained by the City of Portsmouth in the Summer of 2025, the average annual daily traffic (AADT) volume on Peverly Hill Road through the project area is 7,800 vehicles per day. The road does not currently have adequate drainage infrastructure, which results in areas of ponding on the travel lanes and erosion. The width of the existing paved roadway varies between 26 feet and 30 feet with a variable width gravel shoulder in many places. Auxiliary turn lanes are present at the intersection of Banfield Road and Mirona Road and at the

intersection of Middle Road (NH Route 33). The majority of the roadway is uncurbed with small sections of sloped granite curb approaching Middle Road and another section from the intersection of Banfield and Mirona Roads east to the driveway of the Portsmouth Department of Public Works (DPW) located at 680 Peverly Hill Road. The existing condition of the roadway pavement is in poor condition with signs of cracking rutting, and delamination.

There is approximately 1,200 feet of existing concrete sidewalk on the north side of the roadway that starts at the YMCA building (550 Peverly Hill Road) and continues east through the signalized intersection of Banfield and Mirona Roads to a point approximately 100 feet east of the DPW driveway. In addition, there is a short section of sidewalk at the intersection of Peverly Hill Road and Middle Road. Two crosswalks are located within the project limits at the signalized intersections at Banfield and Mirona Roads and Middle Road.

Proposed Action

The proposed action would involve installing granite curb along both sides of Peverly Hill Road to provide a narrowed roadway cross section with a defined pavement edge. The roadway would be narrowed to two 11-foot travel lanes with 2-foot shoulders. A 10-foot shared use path with a 4-foot wide landscaped strip is proposed on the south side of Peverly Hill Road, and a 5.5-foot wide concrete sidewalk is proposed on the north side. The vertical granite curb is required to separate the shared use path and the sidewalk from the roadway since they will be located within the clear zone. The sidewalk on the north side of Peverly Hill Road would allow pedestrians to avoid crossing the roadway directly from their homes or business to access a safe pedestrian accommodation. The proposed shared use path and sidewalk would be constructed to meet the ADA standards. Any existing sidewalks or ramps that are to remain that do not meet ADA Standards would be upgraded.

Proposed curb will be vertical granite curb. Curb cuts will be provided at each of the existing driveways and sideroads and these curb cuts will provide passage opportunities for reptiles and amphibians. In most locations, curb cuts are spaced approximately 200 feet apart. Additional curb cuts would not be desirable for bicycles using the multiuse path.

The existing auxiliary lanes would be maintained. In addition, the work would include reconstruction of the existing pavement surface. Due to the proposed vertical granite curbing, new closed drainage systems are proposed along the length of the roadway. Closed drainage systems are generally routed to proposed stormwater treatment measures to provide water quality treatment.

Proposed work will be primarily located within existing public road right-of-way. However, strip right-of-way acquisitions and temporary construction easements will be necessary from privately-owned and publicly owned lands adjacent to the corridor.

The following stakeholder meetings have been held to obtain input on the project throughout its development:

Date	Meeting	Purpose of Meeting
2/3/16	Public Listening Session	Gain an understanding of the public's views, desires and goals for the corridor
7/27/16	Alternatives Workshop	Present alternatives and seek public comment on each

3/27/19	Public Information Meeting	Present the Preferred Alternative and address questions
2/17/21	Public Information Meeting	Present the Preferred Alternative to the public and seek final comments
4/19/21	City Council Presentation	Present a summary of the project and the Preferred Alternative for consideration
6/28/21	Public Information Meeting	Present a summary of the project and site walk, provide an alternatives comparison, and an overview of the next steps.
7/12/21	City Council Presentation	Present summary of public meeting, changes to project based on feedback, additional alternatives evaluated, and discuss Right-of-Way
10/14/21	City Council Public Hearing/Necessity Hearing	Provide detailed overview of project details
11/17/21	NHDOT Natural Resource Agency Coordination Meeting	Provide an update on the project status and meetings held, and an update on resource impacts
5/8/24	NHDES Alteration of Terrain Pre-Application Meeting	Obtain input on compliance with stormwater treatment requirements
8/21/24	NHDOT Natural Resource Agency Coordination Meeting	Provide an update on the project status and meetings held, and an update on resource impacts

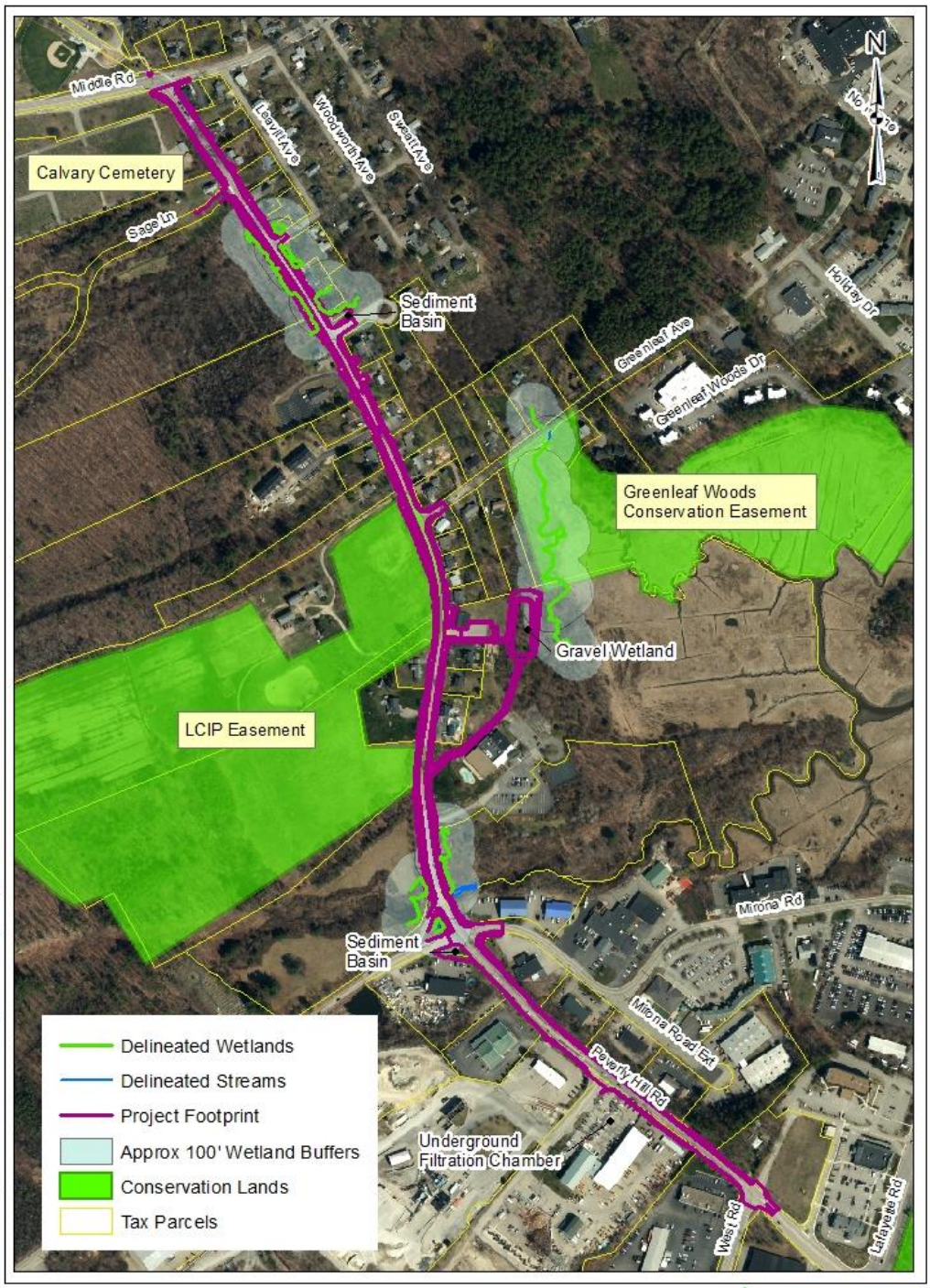
Stormwater Treatment

Existing stormwater runoff flows generally untreated via overland flow to seven discharge points. The project must obtain a NHDES Alteration of Terrain Permit, which requires treatment of stormwater runoff from all post-construction impervious area within the project limits. Proposed stormwater management will be provided by two sediment basins, a gravel wetland, and an underground infiltration chamber system, designed in accordance with the NH Stormwater Manual. Deep sump catch basins will also be used for pretreatment in off-line catch basins. The City completes annual catch basin cleaning, pipe inspections and cleaning, and street sweeping through its routine operations in compliance with the EPA MS4 Permit. The Alteration of Terrain Permit will also include conditions for regular inspection and maintenance of the stormwater treatment areas. The stormwater treatment measures must be inspected once a year as per the maintenance requirements in the Storm Water Manual. The inspections will include observing the sediment accumulation in the stormwater treatment measures and catch basins, and examining the site for erosion problems that may have occurred.

Porous pavement is not proposed as part of this project. The use of porous pavement substantially increases project construction costs due to the deep subgrade material needed to collect and store stormwater and maintenance to keep the system from clogging. Further, curbing would still be required along the sidewalk and shared use path, which means that closed drainage would still be required to collect stormwater off the roadway and this stormwater runoff would require treatment.

The gravel wetland and two sediment basins are located in a wetland buffer, two of which are vegetated. Alternative locations outside of wetland buffers do not exist in the project area due to landowner, site, and design constraints. The project area has many small, residential lots that are not suitable for treatment practices, as well as two large parcels protected by conservation easements. Suitable locations are further constrained by topography and drainage patterns, which limit treatment to locations where water can physically be directed. A gravel wetland was originally proposed off Greenleaf Avenue, which resulted in greater wetland buffer impacts. The

City could not reach an agreement with the property owner at that location and alternative locations were reviewed. The YMCA has agreed to allow the gravel wetland to be placed on their property (244-10); however, the abutting property owner (244-9) would not allow the gravel wetland to be any closer to or on their property (further out of the wetland buffer within maintained lawn) than it is currently proposed as any further encroachments would begin to impact the business operations.



Vegetation

The existing tree line is shown on the enclosed plans and square feet of clearing within the existing tree line has been quantified within wetlands and wetland buffers. Clearing adjacent to the roadway is necessary to establish the wider roadway footprint. Newly established roadway slopes will be seeded with the standard NHDOT slope seed mix. Clearing is also required for the proposed sediment basin adjacent to Moffat Street and for the proposed gravel wetland on the YMCA parcel. Newly established slopes adjacent to these treatment areas will be seeded. Trees will be planted along the south side of the gravel wetland. The entire gravel wetland and adjacent slopes will be seeded with Wet Basin/Wet Meadow Seed Mix that consists of the following:

Scientific Name	Kind of Seed	Minimum Purity (%)	Minimum Germination (%)	Application Rate lbs/acre
Agrostis perennans	Upland Bentgrass	95	85	2
Glyceria grandis	American Mannagrass	95	85	2
Scirpus cyperinus	Woolgrass	95	85	3
Carex vulpinoidea	Fox Sedge	95	85	2
Carex crinita	Fringe Sedge	95	70	3
Juncus effusus	Soft Rush	95	85	2
Glyceria striata	Fowl Mannagrass	95	85	2
			Total	16 lbs/acre

Invasive plants occur throughout the project area, including glossy buckthorn, common reed, and multiflora rose. The selected contractor will be required to submit an Invasive Species Control Plan to outline measures that will be taken to prevent the spread of invasive plants during construction.

Prime Wetlands

The project will not result in a net loss of the prime wetlands functions and values. Impacts to the prime wetland buffer adjacent to Banfield Road will be limited to the footprint of the existing roadway. Impacts to the prime wetland buffer adjacent to Sagamore Creek will be limited to the construction of a proposed gravel wetland. This stormwater treatment area will provide treatment for roadway runoff, which will ensure that water quality within Sagamore Creek is not impacted by roadway infrastructure. One of the primary functions and values of the prime wetland buffer is to help protect water quality of the adjacent prime wetlands. The proposed gravel wetland will serve the same purpose as the prime wetland buffer. Additionally, the buffer will remain vegetated following construction. As noted above, the gravel wetland will be seeded with a Wet Basin/Wet Meadow Seed Mix. For these reasons, compensatory mitigation for prime wetland buffer impacts is not proposed.

We look forward to continuing our coordination with the Conservation Commission on this project.

Sincerely,



Christine Perron, CWS
Regional Environmental Manager

ecc:
Peter Rice, Department of Public Works
Kate Homet, Portsmouth Conservation Commission

McFarland Johnson
Innovative Solutions / Sustainable Results

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April 28, 2017

MJ Project No. 18082.01

Ms. Judie Belanger, Finance Director
Financing/Purchasing Department
City Hall
1 Junkins Avenue
Portsmouth, NH 03801

RE: Peverly Hill Road Reconstruction

Dear Ms. Belanger:

McFarland-Johnson, Inc. (hereinafter called "Engineer") proposes to render professional engineering services to City of Portsmouth (hereinafter called "Client"), in connection with the following project.

A. **PROJECT DESCRIPTION:**

1. The objective of the Peverly Hill Road Reconstruction Project in the City of Portsmouth is to improve the road condition, stormwater management and bicycle and pedestrian facilities along Peverly Hill Road between US Route 1 and NH Route 33.

2. The Client is expected to furnish Engineer with full information as to Client's requirements, including any special or extraordinary considerations for the Project or special services needed, and also to make available all pertinent existing data.

3. The Engineer's services will consist of a Preliminary Design, Final Design, and Environmental Permitting, all as further described in the following Basic Scope of Services as supplemented in Exhibit A, Scope of Work and Task Descriptions, which is attached to this letter.

B. **BASIC SCOPE OF SERVICES:**

1. The project consists of obtaining survey, environmental permitting, Preliminary and Final Design as outlined in Exhibit A Scope of Work and Task Descriptions.

2. The Engineer will also furnish such Additional Services as Client may request for an additional fee.

C. **UNDERSTANDING OF THE BASIC SCOPE OF SERVICES:**

1. The Client will coordinate with the Engineer, to provide a facility and schedule the public hearing.
2. This work will include design services, permitting, and public involvement. The scope outlines an additional task for Construction Administration, but those services are not included in this agreement. If the City desires to have MJ provide these services an agreement to provide those services can be provided.
3. Cost estimates will use NHDOT current weighted unit prices and information provided by the City for the most recent project Bid.
4. The Client will provide abutter notification for survey work required as part of this project.

D. **COMPENSATION FOR BASIC SERVICES:**

1. The Client shall reimburse Engineer for Basic Services in the following manner:

A fixed fee for profit of $27,329.76 plus an amount equal to Direct Labor Costs times a factor of 2.75 for overhead plus Subconsultants and direct project expenses, the total sum of which is estimated at $447,540.52.

Authorized Additional Services will be charged on the basis of Direct Labor Costs times a factor of 3.025, plus direct project expenses.

Direct Project expenses incurred in connection with all Basic and Additional Services will be charged, in addition to the stated fee, on the basis of actual cost.

Engineer will bill Client monthly, for services and direct project expenses. The above financial arrangements are on the basis of payment of invoices within 30 days so that the orderly and continuous progress of the Project through construction can be maintained.

Engineer would expect to start services promptly after receipt of Client's acceptance of this proposal and to complete services within 14 months from notice to proceed.

If there are protracted delays for reasons beyond Engineer's control, Engineer would expect to negotiate with Client an equitable adjustment of compensation taking into consideration the impact of such delay including, but not limited to, changes in pay scales applicable to the period when services are in fact being rendered.

The Engineer acknowledges that Client has authorized only $52,000 of the proposed scope of services. Additional work under this contract is contingent on additional funding and approval of the Client and the NH Department of Transportation. The Client will work in good faith to attempt to gain the additional funding required for this work. In the event the additional funding cannot be secured, by July 7, 2017, either party may terminate this agreement with written notice to the other party. Engineer shall not commence any work beyond the initial authorized

amount unless the Client communicates such additional authorization in writing. If this Agreement is terminated for lack of funding, the City will pay only for work authorized and completed prior to notice of termination.

Engineer shall notify the Client as soon as possible if the work is expected to exceed the total estimated sum of $447,540.52 so that the Client may evaluate adjustments to the scope of work to keep the work within the estimated budget. Engineer shall not exceed the sum of $447,540.52 without written authorization.

The Services to be rendered by the Engineer on this Project, together with specific understandings applicable for the project, are set forth in the above Basic Scope of Services, and Exhibit A, Scope of Work and Task Descriptions, which is attached to and made a part of this proposal and supersede all prior written or verbal understandings.

This proposal, the Basic Scope of Services consisting of 3 pages, Exhibit A, Scope of Work and Task Descriptions, Exhibit B Manhour and Cost Summary, along with the attached Schedules A and B (Standard Terms and Conditions), and attached City of Portsmouth Minimum Insurance Coverage Requirements, represents the entire understanding between Client and Engineer with respect to this Project, and may only be modified in writing signed by both parties.

If this offer of services is acceptable, please execute both copies of this letter in the space provided, and return one to McFarland-Johnson, Inc.

This offer will be open for acceptance until May 10, 2017, unless changed by Engineer in writing.

We appreciate the opportunity to submit this proposal/agreement and hope it meets with your approval. If there are any questions, please do not hesitate to contact Jeff Santacruce or me.

Very truly yours,

McFARLAND-JOHNSON, INC.

By: _____ FOR
James M. Festa, P.E.
Senior Vice President and Chief Operating Officer

City of Portsmouth, NH

_____
Officer

this 4th day of May, 2017

City of Portsmouth, New Hampshire

Wetland Conditional Use Permit Application Checklist

This wetland conditional use permit application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Conservation Commission and Planning Board review. The checklist is required to be uploaded as part of your wetland conditional use permit application to ensure a full and complete application is submitted to the Planning and Sustainability Department and to the online portal. A pre-application conference with a member of the Planning and Sustainability Department is encouraged as additional project information may be required depending on the size and scope of the project. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all wetland conditional use permit requirements. Please refer to Article 10 of the City of Portsmouth Zoning Ordinance for full details.

Applicant Responsibilities: Applicable fees are due upon application submittal to the Planning Board (no fees are required for Conservation Commission submission). The application will be reviewed by Planning and Sustainability Department staff to determine completeness. Incomplete applications which do not provide required information for the evaluation of the proposed site development shall not be provided review by the Conservation Commission or Planning Board.

Name of Applicant: _____ Date Submitted: 6/24/2026

Application # (in City's online permitting): _____

Site Address: E194 Utility Right-of-Way, Schiller Substation Map: 214 Lot: 3

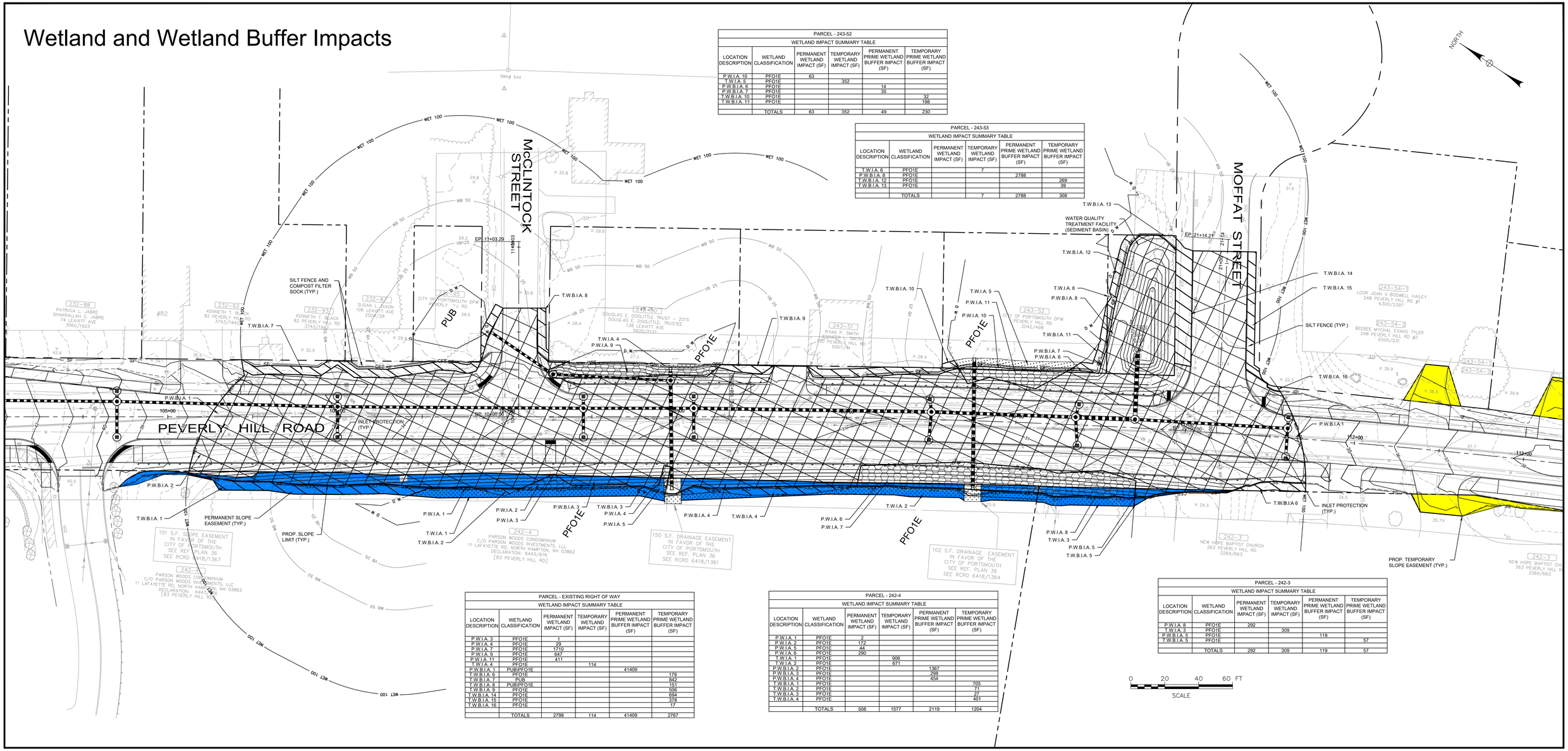
☑	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
✔	Complete application form submitted via the City's web-based permitting program	
✔	All application documents, plans, supporting documentation, this checklist and other materials uploaded to the application form in OpenGov in digital **Portable Document Format (PDF)**. One hard copy of all plans and materials shall be submitted to the Planning and Sustainability Department by the published deadline.	

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Basic property and wetland resource information. **(10.1017.21)**	
✔	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. **(10.1017.22)**	
✔	Demonstrate impacts as they relate to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way). **(10.1017.23)**	
✔	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. **(10.1017.24)**	

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Wetland buffer enhancement plan. **(10.1017.25)**	See included Conditional Use Permit Package
☐	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. **(10.1017.26)**	Not Applicable
✔	Stormwater management must be in accordance with Best Management Practices including but not limited to: *1. New Hampshire Stormwater Manual, NHDES, current version.* *2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004.* **(10.1018.10)**	See included Conditional Use Permit Application Package
☐	Vegetated Buffer Strip slope of greater than or equal to 10%. **(10.1018.22)**	Not Applicable
✔	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. **(10.1018.23/10.1018.24/10.1018.25)**	See included Conditional Use Permit Application Package
☐	All new pavement within a wetland buffer shall be porous pavement. **(10.1018.31)**	Not Applicable
☐	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. **(10.1018.32)**	Not Applicable
☐	Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction. **(10.1018.40)**	To be discussed with the conservation commission
☑	**Requested Items for Submittal**	**Item Location (e.g. Page or Plan Sheet/Note #)**
✔	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	See included Conditional Use Permit Application Package
☐	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	NHDES Wetland Permit By Notification will be summited for this Project

Applicant's Signature: _____ **Date:** 6/24/2026

Wetland and Wetland Buffer Impacts



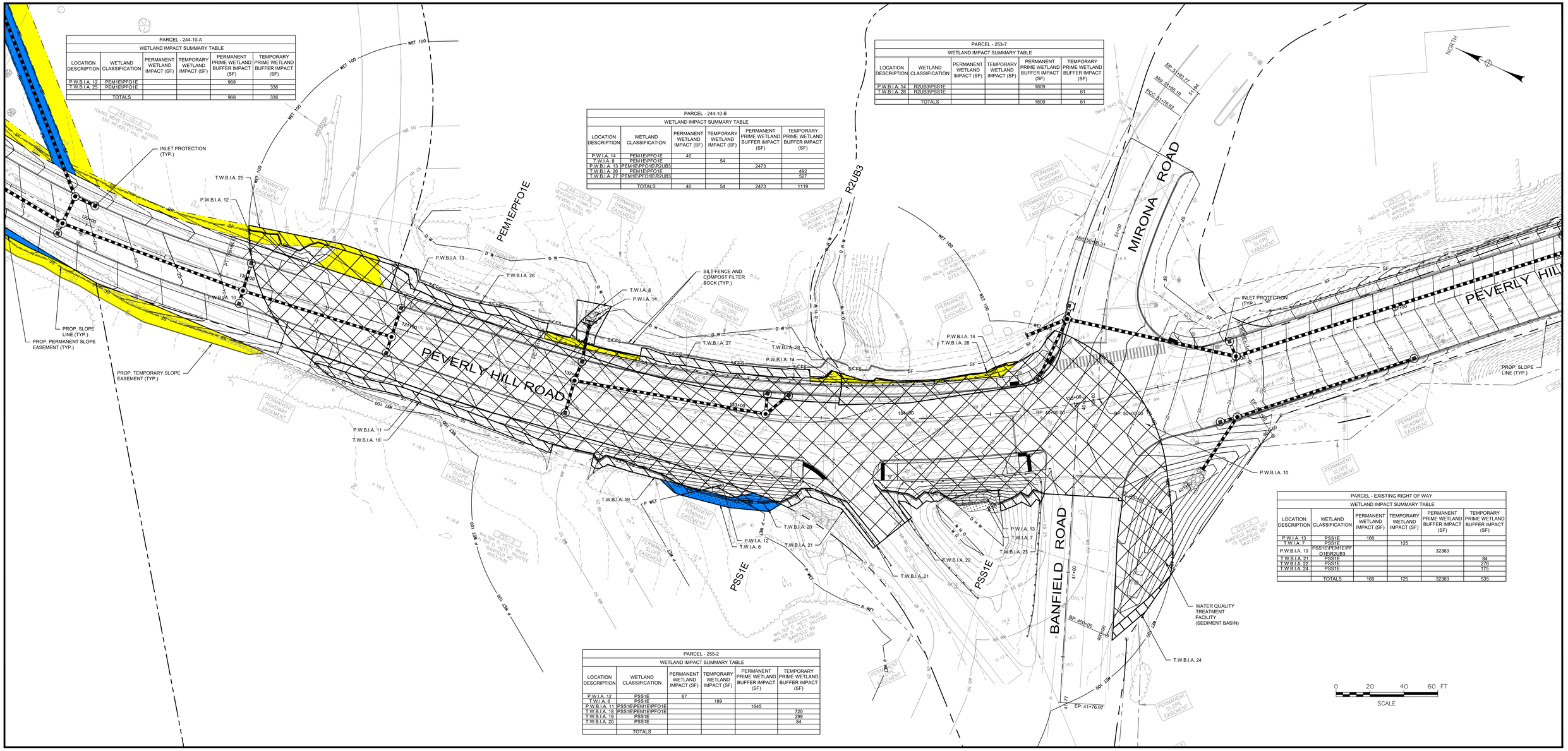
PARCEL - 243-52					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 10	PFO1E	63			
T.W.I.A. 5	PFO1E		352		
P.W.B.I.A. 6	PFO1E			14	
P.W.B.I.A. 7	PFO1E			35	
T.W.B.I.A. 10	PFO1E				32
T.W.B.I.A. 11	PFO1E				198
	TOTALS	63	352	49	230

PARCEL - 243-53					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
T.W.I.A. 6	PFO1E		7		
P.W.B.I.A. 8	PFO1E			2788	
T.W.B.I.A. 12	PFO1E				269
T.W.B.I.A. 13	PFO1E				39
	TOTALS		7	2788	308

PARCEL - EXISTING RIGHT OF WAY					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 3	PFO1E	1			
P.W.I.A. 4	PFO1E	29			
P.W.I.A. 7	PFO1E	1710			
P.W.I.A. 9	PFO1E	647			
P.W.I.A. 11	PFO1E	411			
T.W.I.A. 4	PFO1E		114		
P.W.B.I.A. 1	PUB/PFO1E			41409	
T.W.B.I.A. 6	PFO1E				179
T.W.B.I.A. 7	PUB				842
T.W.B.I.A. 8	PUB/PFO1E				151
T.W.B.I.A. 9	PFO1E				506
T.W.B.I.A. 14	PFO1E				694
T.W.B.I.A. 15	PFO1E				378
T.W.B.I.A. 16	PFO1E				17
	TOTALS	2798	114	41409	2767

PARCEL - 242-4					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 1	PFO1E	2			
P.W.I.A. 2	PFO1E	172			
P.W.I.A. 5	PFO1E	44			
P.W.I.A. 6	PFO1E	290			
T.W.I.A. 1	PFO1E		906		
T.W.I.A. 2	PFO1E		671		
P.W.B.I.A. 2	PFO1E			1307	
P.W.B.I.A. 3	PFO1E			298	
P.W.B.I.A. 4	PFO1E			454	
T.W.B.I.A. 1	PFO1E				705
T.W.B.I.A. 2	PFO1E				71
T.W.B.I.A. 3	PFO1E				27
T.W.B.I.A. 4	PFO1E				401
	TOTALS	508	1577	2119	1204

PARCEL - 242-3					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 8	PFO1E	292			
T.W.I.A. 3	PFO1E		309		
P.W.B.I.A. 5	PFO1E			119	
T.W.B.I.A. 5	PFO1E				57
	TOTALS	292	309	119	57



PARCEL - 244-10-A					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.B.I.A. 12	PEM1E\PFO1E			968	
T.W.B.I.A. 25	PEM1E\PFO1E				336
	TOTALS			968	336

PARCEL - 244-10-B					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 14	PEM1E\PFO1E	40			
T.W.I.A. 8	PEM1E\PFO1E		54		
P.W.B.I.A. 13	PEM1E\PFO1E\R2UB3			2473	
T.W.B.I.A. 26	PEM1E\PFO1E				492
T.W.B.I.A. 27	PEM1E\PFO1E\R2UB3				527
	TOTALS	40	54	2473	1119

PARCEL - 253-7					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.B.I.A. 14	R2UB3\PSS1E			1809	
T.W.B.I.A. 28	R2UB3\PSS1E				61
	TOTALS			1809	61

PARCEL - 255-2					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 12	PSS1E	67			
T.W.I.A. 6	PSS1E		189		
P.W.B.I.A. 11	PSS1E\PEM1E\PFO1E			1645	
T.W.B.I.A. 18	PSS1E\PEM1E\PFO1E				720
T.W.B.I.A. 19	PSS1E				299
T.W.B.I.A. 20	PSS1E				84
	TOTALS				

PARCEL - EXISTING RIGHT OF WAY					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.I.A. 13	PSS1E	160			
T.W.I.A. 7	PSS1E		125		
P.W.B.I.A. 10	PSS1E\PEM1E\PFO1E\R2UB3			32363	
T.W.B.I.A. 21	PSS1E				84
T.W.B.I.A. 22	PSS1E				276
T.W.B.I.A. 24	PSS1E				175
	TOTALS	160	125	32363	535

PARCEL - 244-10-A					
WETLAND IMPACT SUMMARY TABLE					
LOCATION DESCRIPTION	WETLAND CLASSIFICATION	PERMANENT WETLAND IMPACT (SF)	TEMPORARY WETLAND IMPACT (SF)	PERMANENT PRIME WETLAND BUFFER IMPACT (SF)	TEMPORARY PRIME WETLAND BUFFER IMPACT (SF)
P.W.B.I.A. 9	PWET 100\TBZ			9449	
T.W.B.I.A. 17	PWET100\TBZ				2876
	TOTALS			9449	2876

NORTH

PROP. PERMANENT SLOPE EASEMENT (TYP.)

SILT FENCE AND COMPOST FILTER SOCK (TYP.)

WATER QUALITY TREATMENT FACILITY (GRAVEL WETLAND)

T.W.B.I.A. 17

P.W.B.I.A. 9

PROP. TEMPORARY SLOPE EASEMENT (TYP.)

BP- 300+00

EP- 303+30

300+00

301+00

302+00

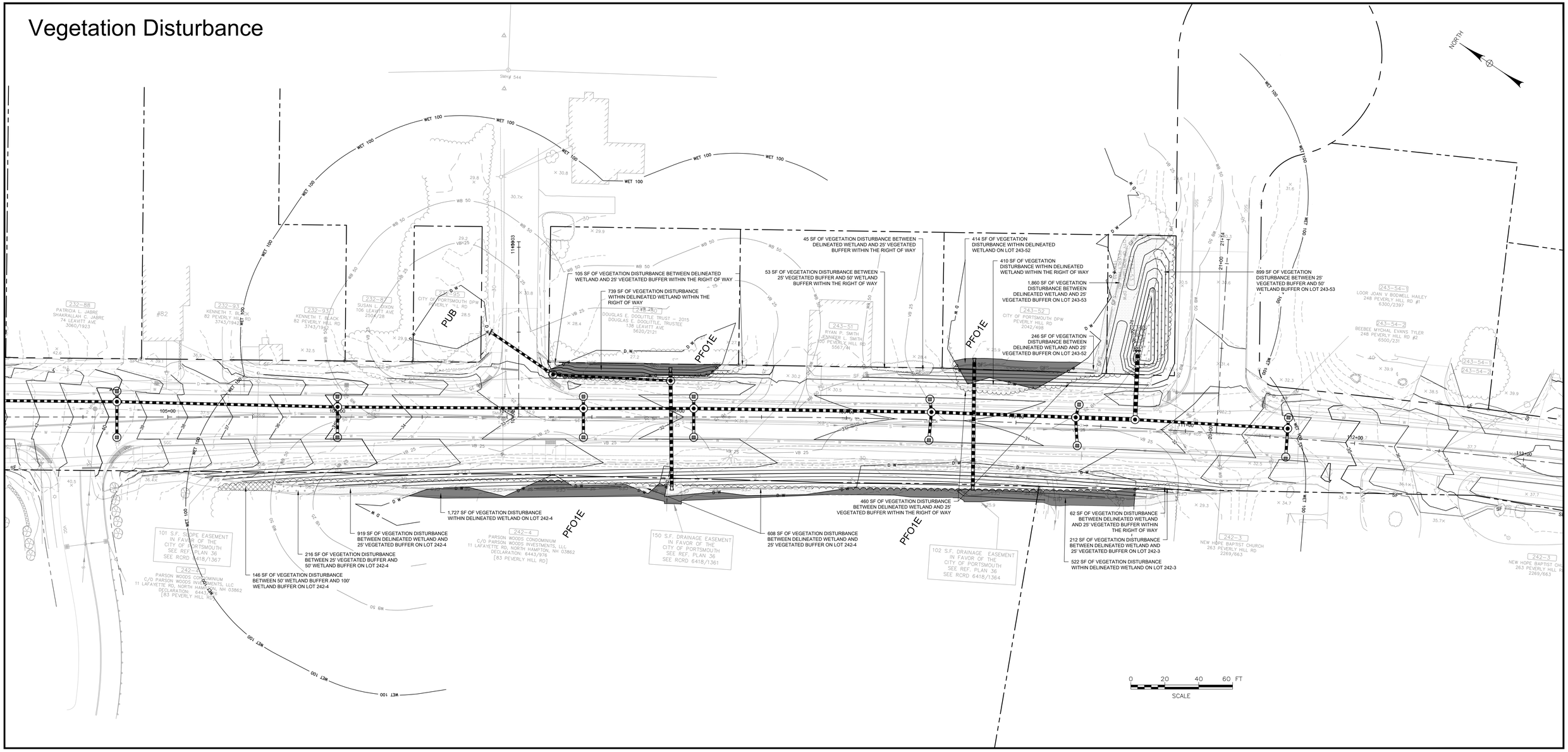
303+00

+27.6'

0 20 40 60 FT

SCALE

Vegetation Disturbance



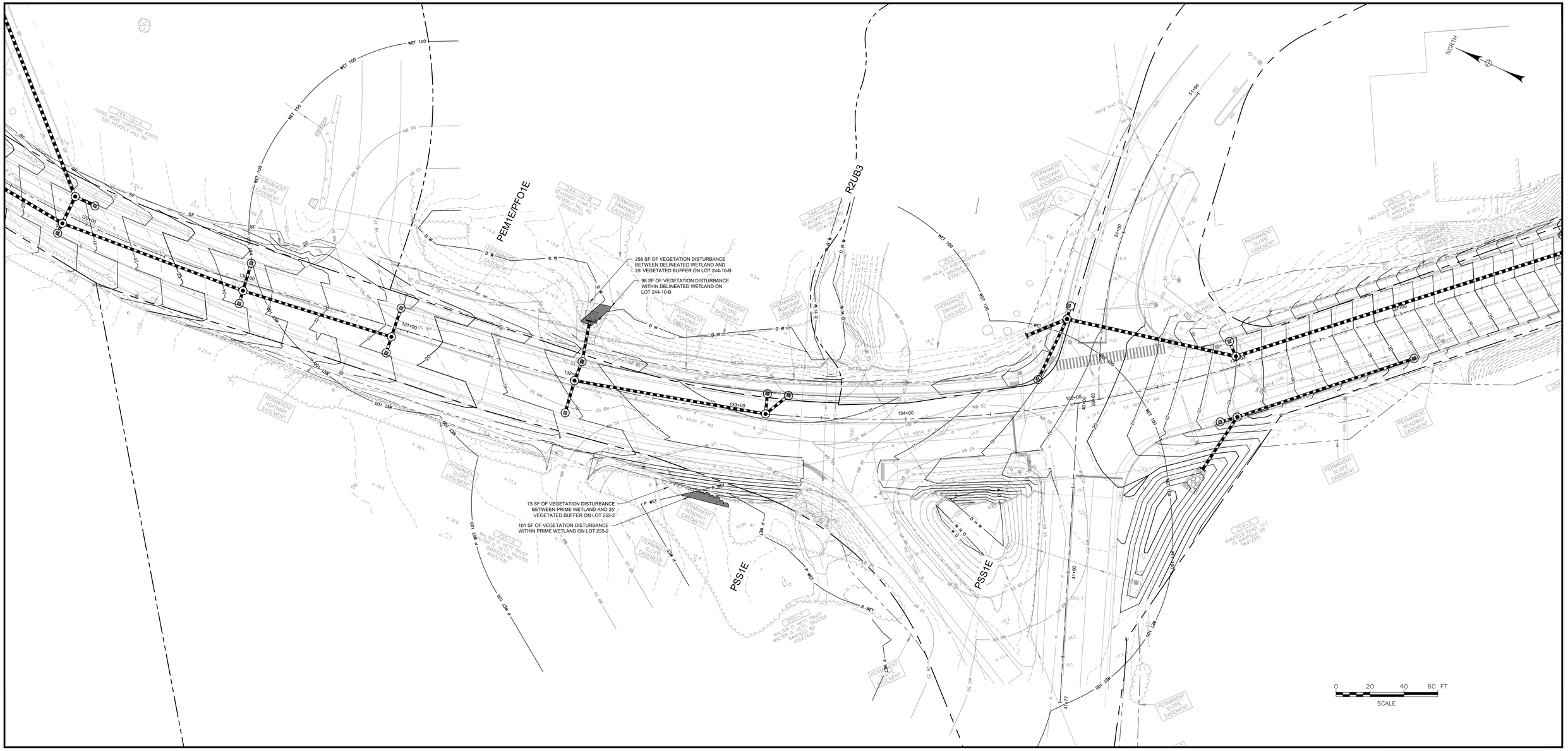
NORTH

1,364 SF OF VEGETATION DISTURBANCE
BETWEEN 25' VEGETATED BUFFER AND
50' WETLAND BUFFER ON LOT 244-10-A

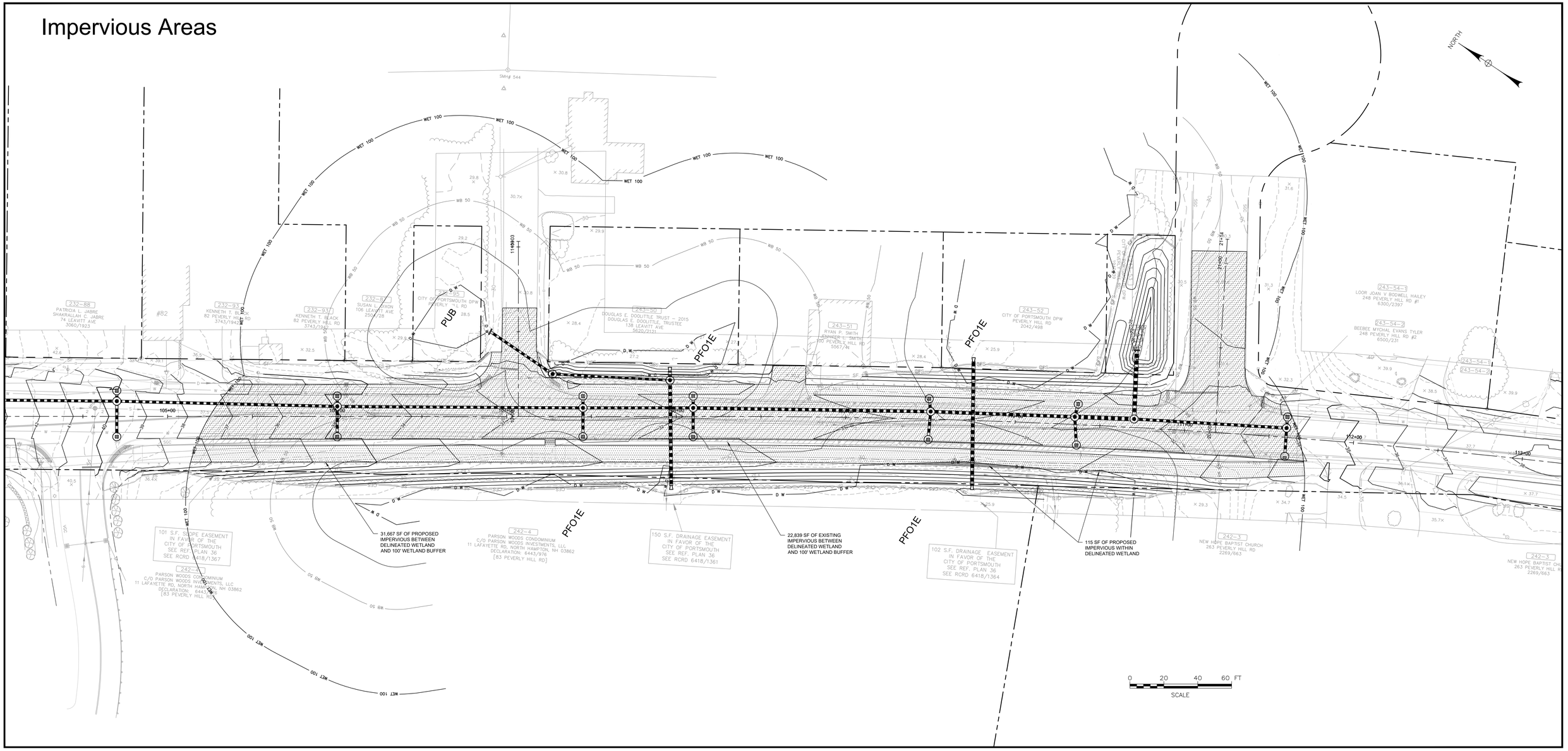
10,980 SF OF VEGETATION DISTURBANCE
BETWEEN 50' WETLAND BUFFER AND 100'
TIDAL BUFFER ZONE ON LOT 244-10-A

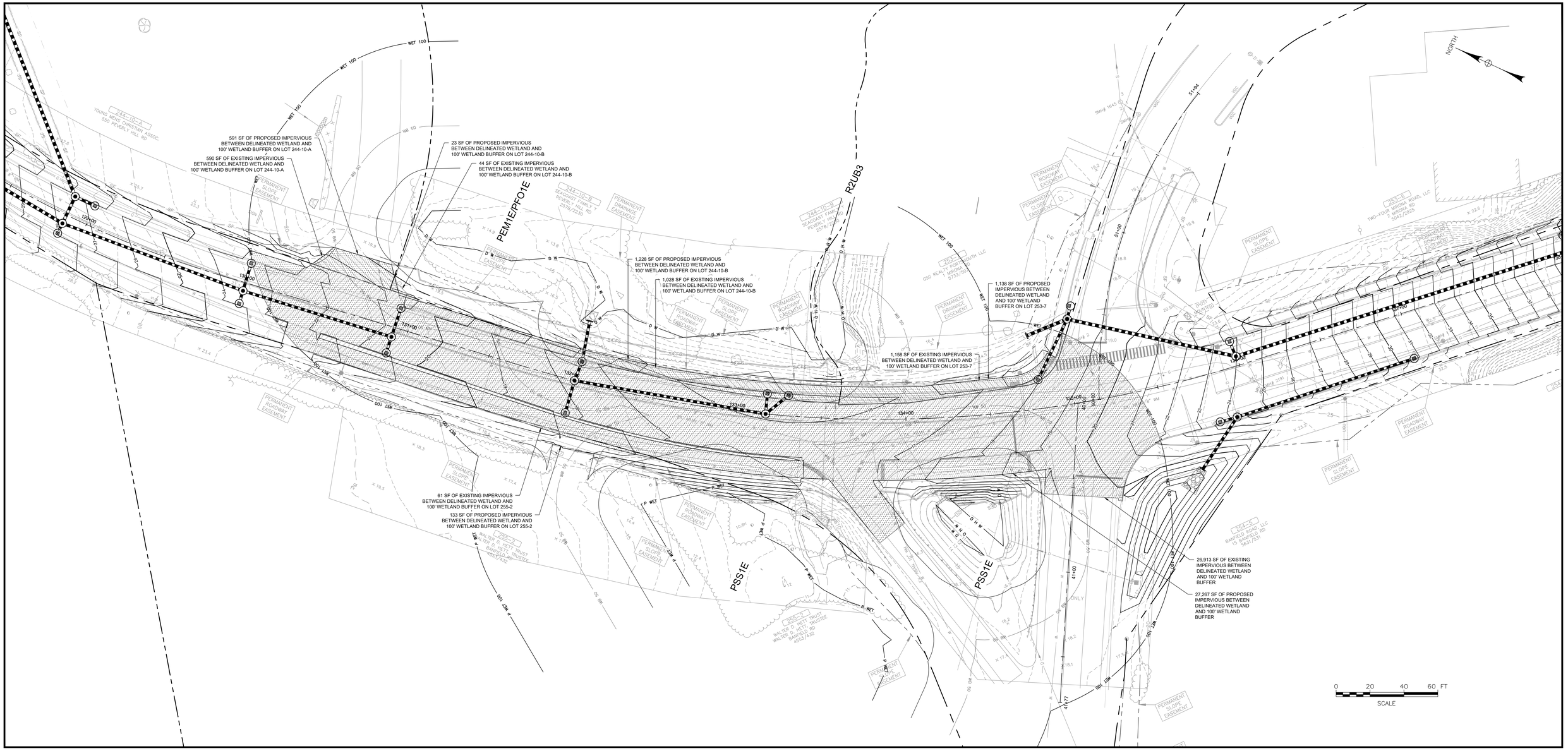
P WET
VB 25
WB 50
P WET 100/TBZ
SF
JS
+27.6'
+27.2'

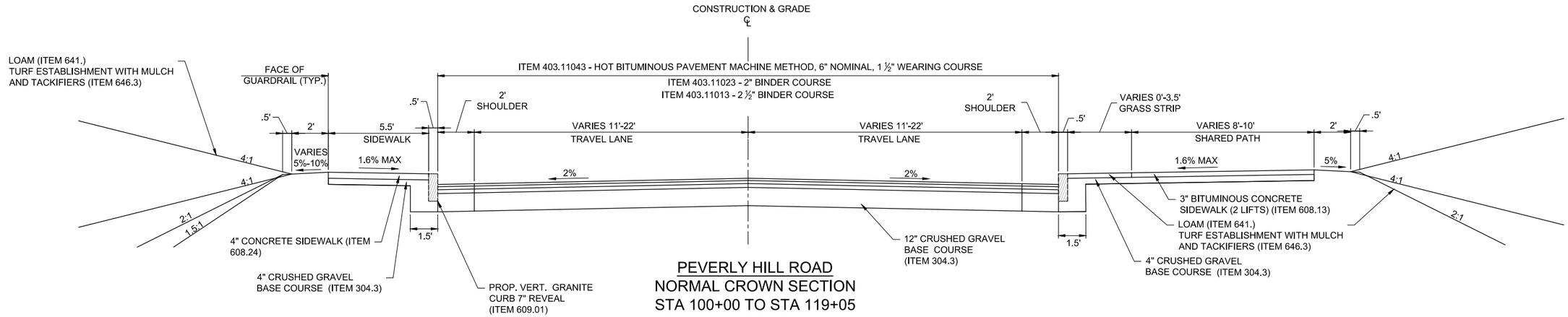
0 20 40 60 FT
SCALE


258 SF OF VEGETATION DISTURBANCE BETWEEN DELINEATED WETLAND AND 25' VEGETATED BUFFER ON LOT 244-10-B
98 SF OF VEGETATION DISTURBANCE WITHIN DELINEATED WETLAND ON LOT 244-10-B
73 SF OF VEGETATION DISTURBANCE BETWEEN PRIME WETLAND AND 25' VEGETATED BUFFER ON LOT 255-2
101 SF OF VEGETATION DISTURBANCE WITHIN PRIME WETLAND ON LOT 255-2
PEM1E/PPO1E
R2UB3
PSS1E
PSS1E
NORTH
0 20 40 60 FT
SCALE

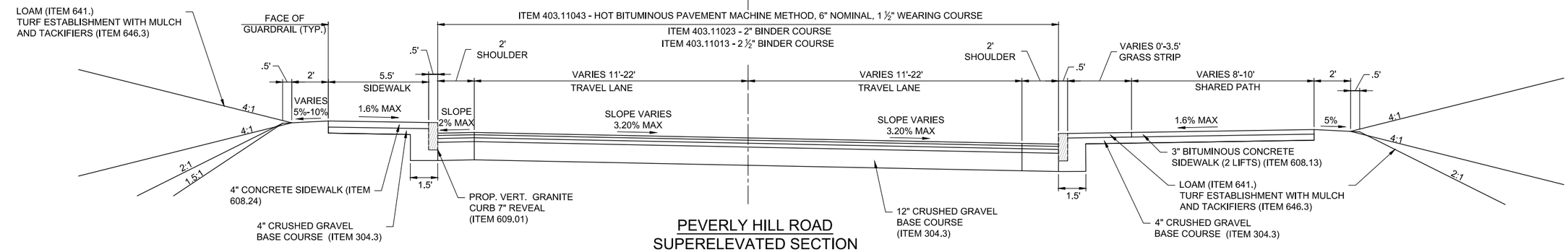
Impervious Areas



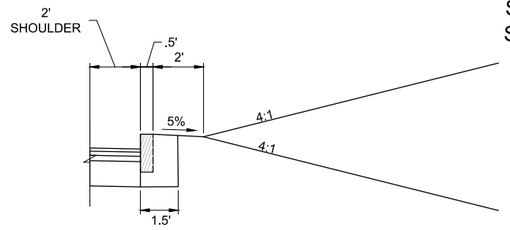

591 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-A
590 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-A
23 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-B
44 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-B
1,228 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-B
1,028 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 244-10-B
1,158 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 253-7
1,138 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 253-7
61 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 255-2
133 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER ON LOT 255-2
26,913 SF OF EXISTING IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER
27,267 SF OF PROPOSED IMPERVIOUS BETWEEN DELINEATED WETLAND AND 100' WETLAND BUFFER
PEM1E/PPO1E
R2UB3
PSS1E
PSS1E
NORTH
0 20 40 60 FT
SCALE



PEVERLY HILL ROAD
NORMAL CROWN SECTION
STA 100+00 TO STA 119+05
STA 124+38 TO STA 127+43
STA 130+55 TO STA 131+06
STA 136+71 TO STA 138+01
STA 141+35 TO STA 149+50



PEVERLY HILL ROAD
SUPERELEVATED SECTION
STA 119+05 TO STA 124+38
STA 127+43 TO STA 130+55
STA 131+06 TO STA 136+71
STA 138+01 TO STA 141+35



PEVERLY HILL ROAD
RIGHT CURB
STA 135+18 TO STA 149+50

FINAL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

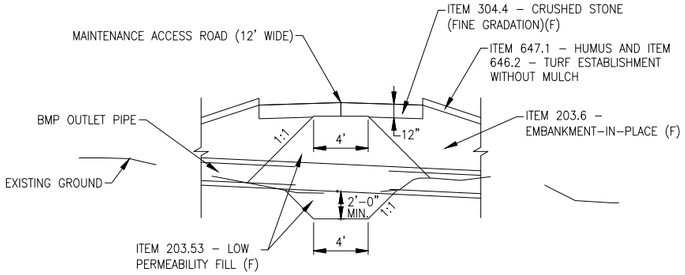
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
CITY OF PORTSMOUTH, NEW HAMPSHIRE

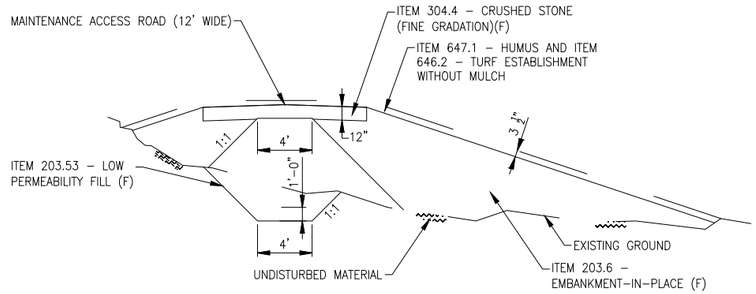
PEVERLY HILL ROAD RECONSTRUCTION

TYPICAL SECTIONS

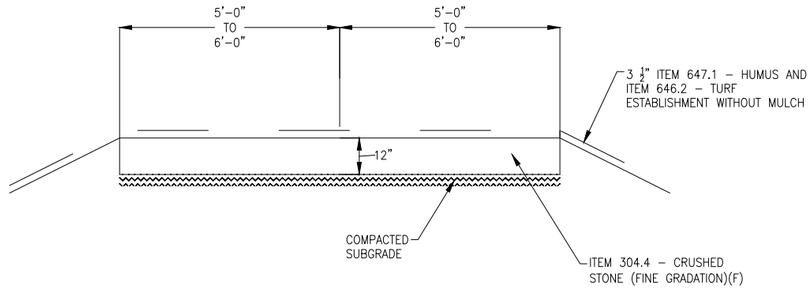
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DRAWN: MJF	PROJECT: 18082.01	
CHECKED: BRC	DATE: FEBRUARY 2026	2 OF 72



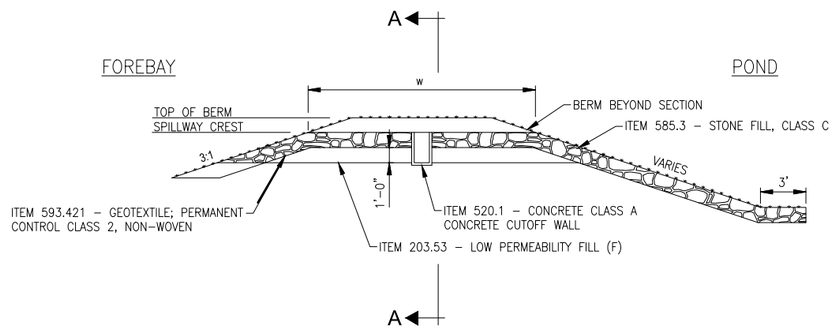
BMP KEY DETAIL – AT OUTLET PIPE
NOT TO SCALE



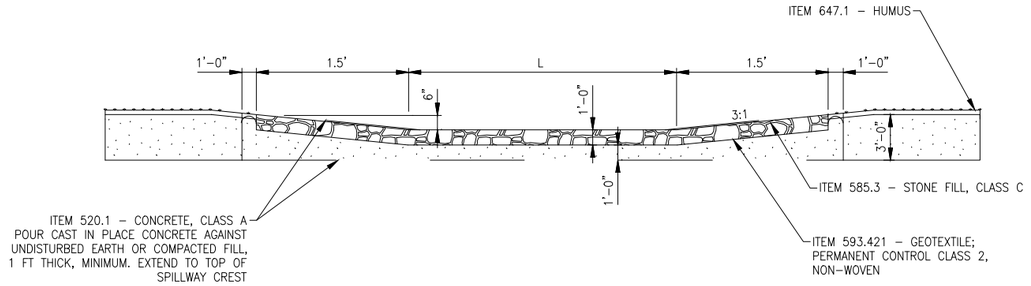
BMP KEY DETAIL – IN FILL SECTIONS
NOT TO SCALE



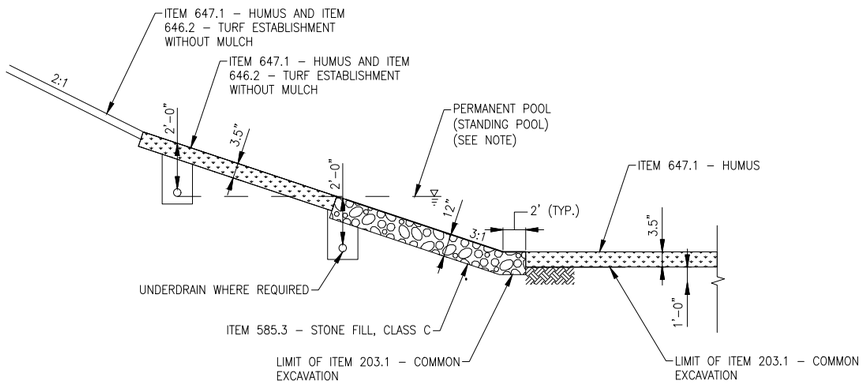
BMP MAINTENANCE ROAD
TYPICAL SECTION
NOT TO SCALE



STONE SPILLWAY TYPICAL
NOT TO SCALE
(LOCATE FOR OVERFLOW FOREBAY TO POND)



SECTION A–A



FOREBAY AND PERMANENT POOL DETAIL
NOT TO SCALE

NOTE: ELEVATION OF STONE FILL VARIES BASED ON INDIVIDUAL BMP, SEE BMP PLANS FOR ELEVATION

FINAL PLANS

REV	DATE	DESCRIPTION	BY

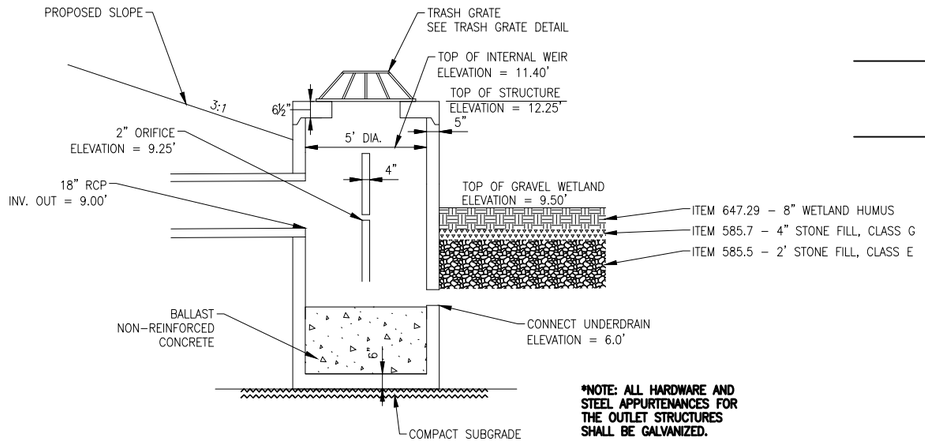
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
CITY OF PORTSMOUTH, NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

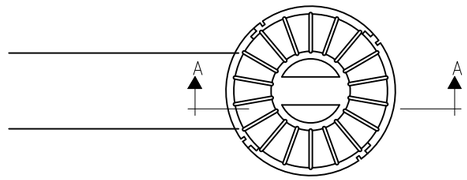
BMP DETAILS

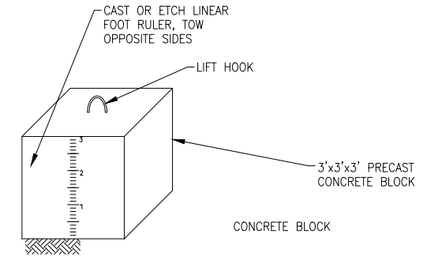
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DRAWN: MJF	PROJECT: 18082.01	24 OF 92
CHECKED: BRC	DATE: JULY 2026	



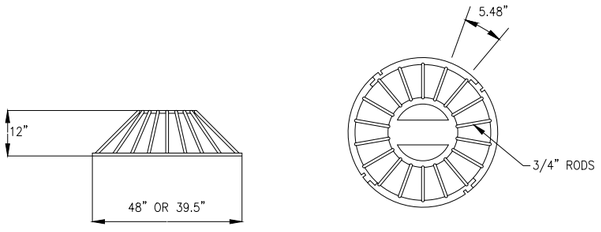
SECTION A–A

ITEM 604.910x – OUTLET CONTROL STRUCTURES SCHEMATIC
NOT TO SCALE

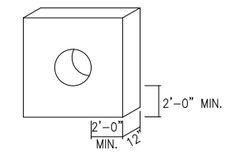




SEDIMENT SUMP MEASURING BLOCK
NOT TO SCALE



CONE TRASH GRATE DETAIL
NOT TO SCALE
SUBSIDIARY TO ITEM 609.91X



CAST–IN–PLACE
CONCRETE CLASS 'A' COLLAR
(SUBSIDIARY TO PIPE)

ANTI–SEEP COLLAR
NOT TO SCALE

FINAL PLANS

REV	DATE	DESCRIPTION	BY

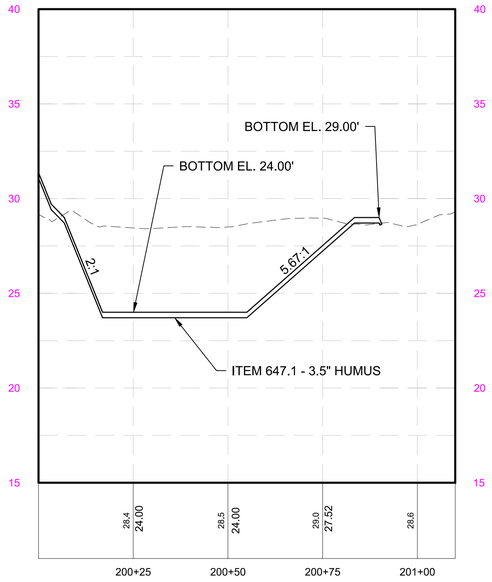
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
CITY OF PORTSMOUTH, NEW HAMPSHIRE

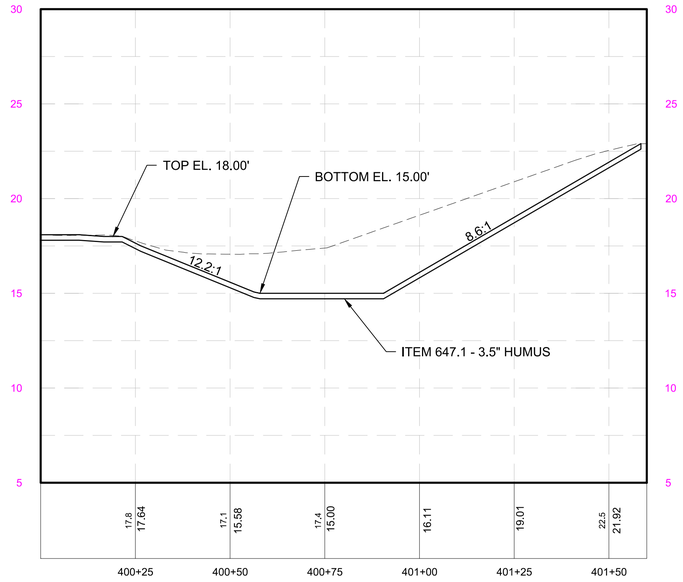
PEVERLY HILL ROAD RECONSTRUCTION

BMP DETAILS

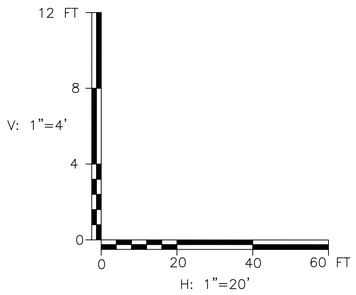
SCALE: AS SHOWN	DESIGN: MAH	**DR-03**
DRAWN: MJF	PROJECT: 18082.01	25 OF 92
CHECKED: BRC	DATE: JULY 2026	



MOFFAT STREET BMP PROFILE



BANFIELD ROAD BMP PROFILE



FINAL PLANS

REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
CITY OF PORTSMOUTH, NEW HAMPSHIRE

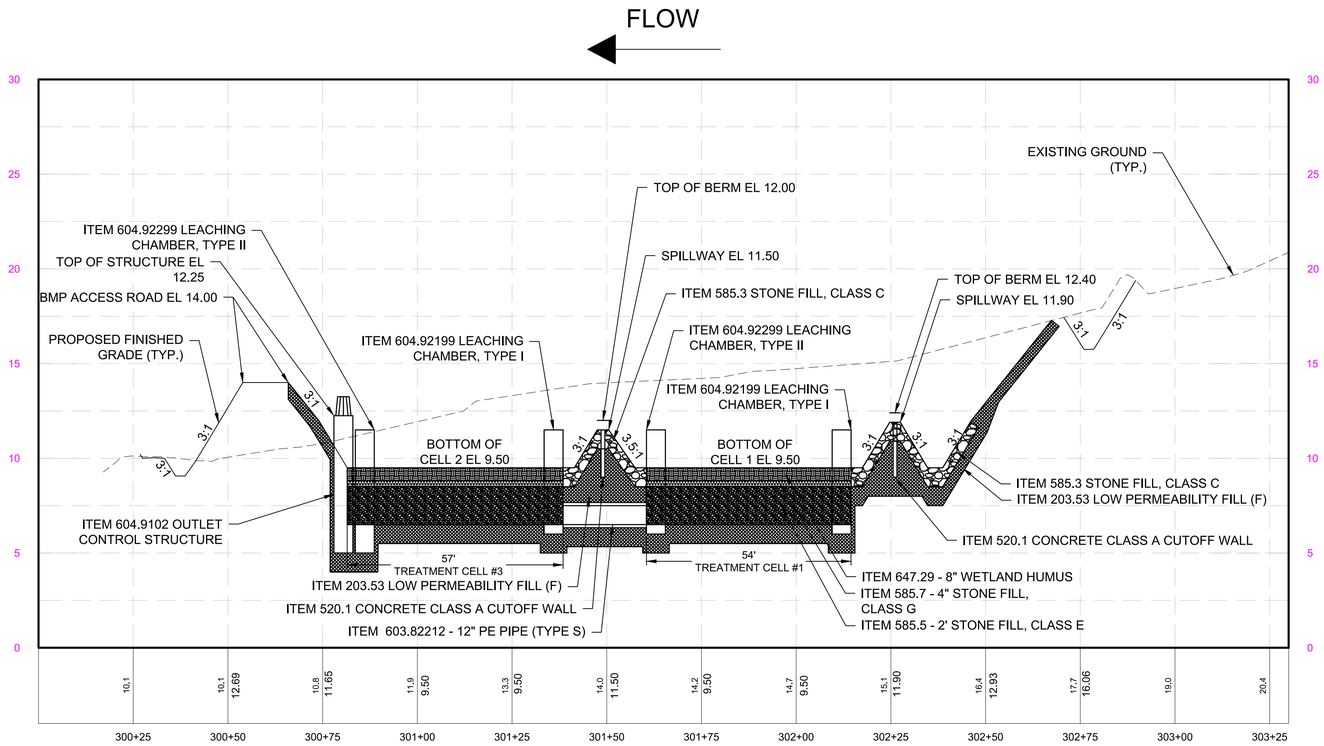
PEVERLY HILL ROAD RECONSTRUCTION

PROFILE SHEET DETENTION BASINS

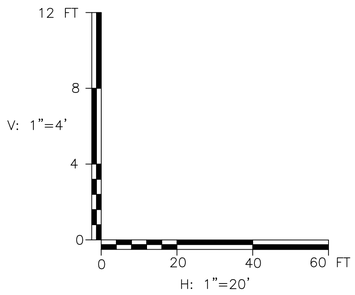
SCALE: AS SHOWN	DESIGN: MAH	**PR-10**
DRAWN: MJF	PROJECT: 18082.01	46 OF 92
CHECKED: BRC	DATE: JULY 2026	

WATER SURFACE ELEVATIONS			
WQV	Q_2	Q_{10}	Q_{50}
10.55	12.44	12.70	12.89

GROUNDWATER DATA	
ID	GROUNDWATER ELEVATION
B–1	7.0
B–2	8.0
B–3	7.0
B–4	9.0



YMCA BMP PROFILE



FINAL PLANS

REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
CITY OF PORTSMOUTH, NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

PROFILE SHEET GRAVEL WETLAND

SCALE: AS SHOWN	DESIGN: MAH	**PR-11**
DRAWN: MJF	PROJECT: 18082.01	
CHECKED: BRC	DATE: JULY 2026	47 OF 92

	Right of Way			
	Permanent Wetland Impact	Temporary Wetland Impact	Permanent Wetland Buffer Impact	Temporary Wetland Buffer Impact
	2,798.00	114.00	41,409.00	2,767.00
	160.00	125.00	32,363.00	535.00
Total (SF):	**2,958.00**	**239.00**	**73,772.00**	**3,302.00**

	Private Land			
	Permanent Wetland Impact	Temporary Wetland Impact	Permanent Wetland Buffer Impact	Temporary Wetland Buffer Impact
	63.00	352.00	49.00	230.00
	-	7.00	2,788.00	308.00
	508.00	1,577.00	2,119.00	1,204.00
	292.00	309.00	119.00	57.00
	-	-	968.00	336.00
	40.00	54.00	2,473.00	1,119.00
	-	-	1,809.00	61.00
	67.00	189.00	1,645.00	1,103.00
	-	-	9,449.00	2,876.00
Total (SF):	**970.00**	**2,488.00**	**21,419.00**	**7,294.00**

K0076-0066

July 29, 2026

Samantha Collins, Chair
City of Portsmouth Conservation Commission
1 Junkins Avenue
Portsmouth, New Hampshire 03801

Re: Request for Wetland Conditional Use Permit Review
Map 284 Lot 8 – Proposed Garden & Site Improvements

Dear Chair Collins,

On behalf of 124 Group Inc (Owner) we are pleased to submit the following information to support a request for a Site Review Permit and a Wetland Conditional Use Permit for the above referenced project.

Documents for the attention of the Technical Advisory Committee:

- One (1) 22x34 & one (1) 11x17 copy of the Site Plan Set, last revised July 22, 2026;
- Wetland Buffer Exhibit, dated July 29, 2026;
- Project Resource Area Delineation Memo, dated June 22, 2026;
- Wetland Conditional Use Permit Checklist, dated June 22, 2026;
- DRAFT NHDES Standard Dredge and Fill Wetlands Permit Application, dated July 2026
- Authorization Form

The proposed project is located at 124 Heritage Avenue which is identified as Map 284 Lot 8 on the City of Portsmouth Tax Maps. The property is a 5.8-acre parcel of land that is located in the Industrial (I) zone. The property is bound to the west by Heritage Avenue, 280-282 Heritage Avenue Industrial property to the north, and undeveloped City owned parcels to the to the south and east. The site currently operates as a multi-tenant industrial/commercial building.

The proposed project consists of the construction of a garden for the use of one of the buildings tenants, Gather. The garden will be located in the front of the existing building in what is currently a maintained lawn area. An ADA accessible ramp is also proposed to provide access to the garden from the existing parking lot. The project will include additional site improvements including parking lot re-striping, stormwater conveyance modifications, lighting, and landscaping.

Wetland Buffers

The proposed project will result in alterations to the 100-foot wetland buffer which is coincident with the state-regulated, municipally designated and duly established, 100-foot Prime Wetland buffer. As such, we anticipate that a Wetland Conditional Use Permit will be required for the project.

A Tighe & Bond New Hampshire Certified Wetland Scientist (CWS) conducted a wetland delineation on October 21, 2025. Wetland 1A is located to the east and south of the subject parcel. Wetland 2A is located to the southwest of the subject parcel, across Heritage Avenue (Map 284 Lot 6). Wetland 2A is a municipally-designated Prime Wetland, and thus includes a duly-established 100-foot Prime Wetlands buffer. An intermittent stream defined by Flag Series 1B and 2B drains both wetlands. The 100-foot buffers associated

with these wetlands consist of a paved parked lot and roadway, maintained lawn area, and portions of the existing building. Delineated wetlands are further described in the Wetland Delineation Technical Memorandum provided in Attachment C.

Existing impervious areas within the buffer include the paved roadway, parking lot, and driveway entrances from Heritage Avenue, as well as a portion of the existing building. Proposed new impervious surfaces consist of an ADA-compliant ramp to enable access the proposed community garden as well as the removal of bituminous concrete within the buffer to Wetland 1A during the parking lot restriping. The project may include the reconstruction of monument signage within the buffer(s), as well.

A comparison of the existing and proposed impervious areas within the buffer are summarized in Table 1.

Table 1: 124 Heritage Ave, Wetland Buffer Impervious Surfaces

Buffer Segment	Existing Impervious (SF)	Final Impervious (SF)
0-25 feet	521	521
25-50 feet	3,356	3,553
50-100 feet	20,747	25.121
Total	24,470	24,889
Net Change in Impervious Surface Area (SF)	**+498**	

As the proposed project will result in impacts to the duly-established 100-foot Prime Wetland Buffer, Tighe & Bond will coordinate will the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau to determine the applicable mitigation requirements. As part of the proposed mitigation strategy, we are proposing a buffer enhancement including native shrub plantings and reseeding areas adjacent to the community garden with suitable native seed mixes.

LAND USE PERMIT APPLICATIONS

Local Permitting Timeline

The proposed project will require the following site-related approvals from the Planning Board:

- Site Plan Review Permit
- Wetland Conditional Use Permit

To date the applicant has attended the following meetings with the local land-use boards related to the Site Plan:

- May 6th, 2026 – Conservation Commission Site Walk
- May 13th, 2026 – Conservation Commission Work Session
- July 7th, 2026 – Technical Advisory Committee Meeting

The project will also require the following approvals from the New Hampshire Department of Environmental Services (NHDES):

- NHDES Standard Dredge and Fill Wetlands Permit (Major Impact)

Wetland Conditional Use Permit

As the proposed work will result in alterations to the wetland buffer and is not identified as a Permitted Use under Section 10.1016 of the City of Portsmouth Zoning Ordinance, we anticipate that the proposed work will require a Conditional Use Permit for impacts within the 100-foot wetlands buffer.

Wetland Conditional Use Permit Criteria

Based on the above described and enclosed materials, the following addresses how the proposed project warrants the granting of a Wetland Conditional Use Permit by satisfying the following six (6) criteria for approval in Section 10.1017.50 of the Zoning Ordinance:

(1) The land is reasonably suited to the use, activity or alteration.

As the existing land consists of relatively flat, exposed, maintained lawn, it is reasonably suited to being converted into a community garden. Siting the community garden at this location will provide Gather with direct access to the garden, which will help facilitate their mission of improving the food security of those in need on the Seacoast. Gather also intends to use the site as a classroom, to teach people how to garden and grown their own food. The proposed community garden represents a low-impact use of the site that can be accommodated without expanding the developed or impervious footprint within the 100-foot wetland buffer.

(2) There is no alternative location outside the wetland buffer that is feasible and reasonable for the proposed use, activity or alteration.

No feasible and reasonable alternative location exists outside the wetland buffer. The majority of the subject parcel has already been developed, leaving limited undeveloped area available to accommodate the proposed community garden. The proposed location consists of previously maintained lawn adjacent to Gather's existing facility, allowing the garden to be readily accessed and incorporated into its operations while avoiding impacts to other portions of the site.

(3) There will be no adverse impact on the wetland functional values of the site or surrounding properties;

No adverse impacts to the functional values of the site or surrounding wetlands are anticipated. The addition of native shrubs and native seed mixes is expected to provide a net benefit to the functional value of the surrounding wetlands. The existing maintained lawn provides limited habitat and ecological value, whereas the proposed native shrubs, groundcovers, and pollinator-friendly plantings will enhance forage and refuge for wildlife. The proposed plantings will support pollinators and other beneficial insects. The community garden will also provide educational and community engagement opportunities that promote environmental stewardship and local food production. The proposed parking lot realignment will reduce impervious surface area within the 100-foot buffer, and the proposed grass-lined swale will improve infiltration and stormwater management. As such, no increase in stormwater runoff to the adjacent wetlands will result as part of this project.

(4) Alteration of the natural vegetative state or managed woodland will occur only to the extent necessary to achieve construction goals; and

No alterations to naturally vegetated areas are proposed as part of this project. Rather, this project is focused on converting previously developed areas (i.e., maintained lawn and paved parking lot). The proposed community garden will increase the amount and diversity of vegetation within the wetland buffer through the introduction of cultivated plantings, including native and pollinator-friendly species where appropriate.

(5) The proposal is the alternative with the least adverse impact to areas and environments under the jurisdiction of this Section.

The proposed project is focused on the reuse and enhancement of previously developed and maintained areas, and represents the alternative with the least adverse impact to the wetland buffer and adjacent wetland resources. Rather, the proposed parking lot reconfiguration will reduce impervious surfaces within the parking area and native plantings are expected to improve wildlife habitat, ecological value, and educational opportunities. Appropriate erosion and sediment control measures will be implemented during construction to minimize erosion, sedimentation, and turbidity.

(6) Any area within the vegetated buffer strip will be returned to a natural state to the extent feasible.

No work is proposed within the 25-foot vegetated buffer strip as part of this project.

Prime Wetland Buffer Waiver Request

In addition to the requested Wetland Conditional Use Permit, the proposed project will require a Prime Wetland Buffer Waiver from the New Hampshire Department of Environmental Services (NHDES) pursuant to RSA 482-A:11 and Env-Wt 706 for work within the duly established 100-foot Prime Wetland Buffer associated with Wetland 2A. Accordingly, the Applicant respectfully requests that the Conservation Commission consider a separate recommendation to NHDES supporting issuance of the waiver as part of the state wetlands permitting process.

The project is not anticipated to result in a significant net loss of the values for which Wetland 2A was designated as a Prime Wetland, including its ecological integrity, wildlife habitat functions, flood storage capacity, and overall wetland resource value. The proposed work is largely confined to previously developed and maintained portions of the buffer, includes only limited new impervious area associated with the ADA-accessible ramp, and incorporates buffer enhancement measures consisting of native shrub plantings, native seed mixes, and stormwater management improvements. These measures are expected to maintain and enhance existing buffer functions while supporting the community-oriented objectives of the project.

While the NHDES Standard Dredge and Fill Permit application is currently being finalized, the enclosed draft application, plans, wetland resource information, impact assessment, and buffer enhancement details provide the information necessary for the Conservation Commission to evaluate the project, review the proposed impacts, and to consider a recommendation to NHDES regarding the associated Prime Wetland Buffer Waiver request. Therefore, the Applicant respectfully requests that the Conservation Commission recommend approval of the associated Prime Wetland Buffer impacts, as proposed, to NHDES.

CONCLUSION

As shown in the enclosed information, the proposed project is expected to create distinctive and appealing site improvements which are connected to the community while respecting abutting properties, surrounding natural resources, and development goals within the City. The project is consistent with the intent of the City's wetland buffer regulations and satisfies the Conditional Use Permit criteria through the enhancement of existing conditions. Further, Gather intends to coordinate with the Conservation Commission to obtain the Commission's support for the proposed project and the associated Prime Wetland buffer waiver request, consistent with the requirements of New Hampshire Administrative Rule Chapter Env-Wt 700.

The applicant respectfully requests to meet with the Conservation Commission at their next scheduled meeting on August 12, 2026. If you have any questions or require any additional information, please feel free to contact us by phone at (603) 294-9213 or by email at NAHansen@tighebond.com.

Sincerely,
Tighe & Bond, Inc.



Neil A. Hansen, PE
PROJECT MANAGER



Patrick M. Crimmins, PE
VICE PRESIDENT

J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Reports\Applications\City of Portsmouth\20260729 CC Resubmission\2060729_K0076-0066 CC Cover Letter.docx

PROPOSED GARDEN AND SITE IMPROVEMENTS

124 HERITAGE AVENUE
PORTSMOUTH, NEW HAMPSHIRE

DATE: APRIL 29, 2026
LAST REVISED: JULY 22, 2026

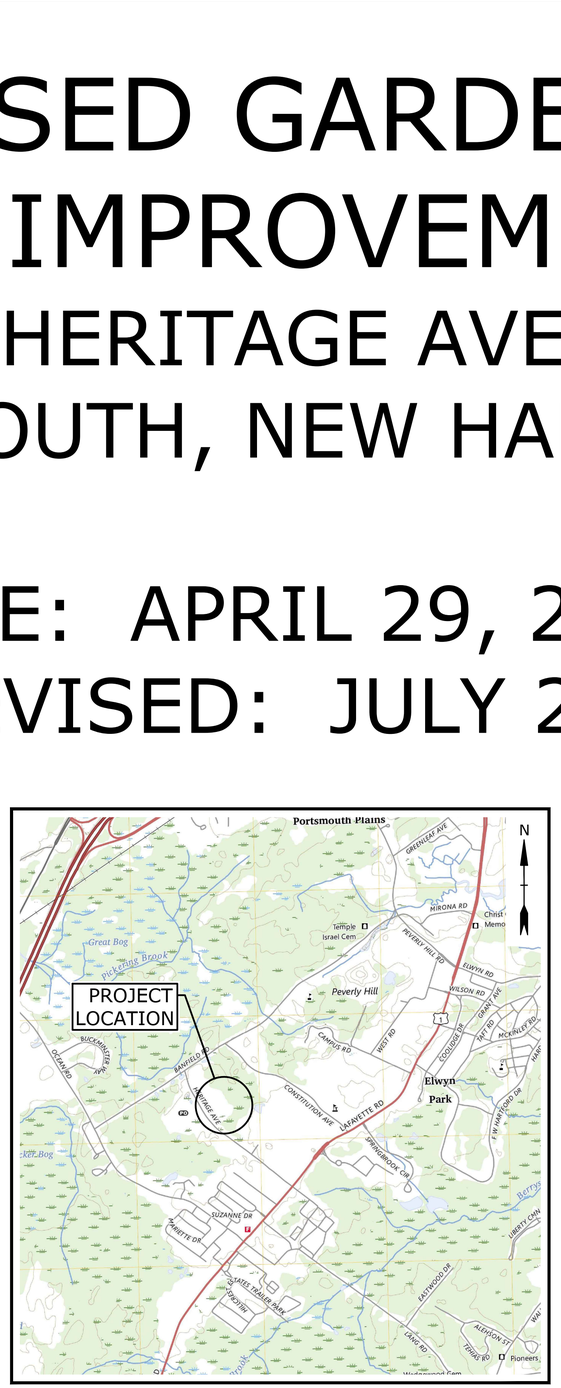
SHEET INDEX	
DRAWING NO.	DRAWING TITLE
-	COVER SHEET
1 OF 1	EXISTING CONDITIONS PLAN
G-001	GENERAL NOTES AND LEGEND
C-101	DEMOLITION PLAN
C-201	SITE PLAN
C-301	GRADING, DRAINAGE, EROSION CONTROL, AND UTILITIES PLAN
C-501	EROSION CONTROL NOTES AND LEGEND
C-502	DETAILS SHEET
LT-101	PHOTOMETRIC PLAN
L-101	PLANTING PLAN

LIST OF PERMITS		
LOCAL	STATUS	DATE
SITE PLAN REVIEW PERMIT	PENDING	
CONDITIONAL USE PERMIT - WETLAND BUFFER	PENDING	
STATE		
NHDES - STANDARD DREDGE AND FILL WETLANDS	NOT SUBMITTED	
FEDERAL		
NPDES - CONSTRUCTION GENERAL PERMIT	NOT SUBMITTED	

CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.

3. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.



SITE LOCATION MAP
SCALE: 1" = 2,000'

PREPARED BY:
Tighe & Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE
7/22/26

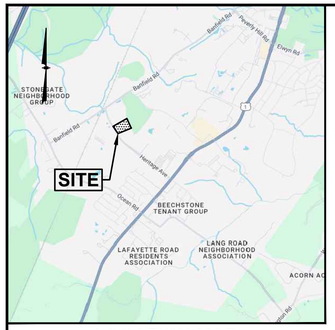
PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE
7/22/26

OWNER/APPLICANT:
ONE TWENTY FOUR GROUP, INC.
210 COMMERCE WAY, SUITE 300
PORTSMOUTH, NH 03801

SURVEYOR:
GREENMAN-PEDERSEN, INC.
21 DANIEL ST., SECOND FLOOR
PORTSMOUTH, NH 03801

TAC SUBMISSION
COMPLETE SET 10 SHEETS

Last Saved: 6/22/2026
Plotted: Jul 22, 2026 - 2:05pm By: BGurcio
Tighe & Bond: J:\KK\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-COVR.dwg



NOTES:

1) OWNER OF RECORD OF MAP 284 LOT 8:
ONE TWENTY FOUR GROUP INC
210 COMMERCE WAY SUITE 300
PORTSMOUTH, NH 03801
DEED REFERENCE: BOOK 3037 PAGE 2641
ROCKINGHAM COUNTY REGISTRY OF DEEDS

2) ZONE: INDUSTRIAL DISTRICT (I)

REFER TO THE CITY OF PORTSMOUTH ZONING ORDINANCE FOR VERIFICATION, ADDITIONAL RESTRICTIONS AND PERMITTED USES.

3) THIS PLAN IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY PERFORMED BY THIS OFFICE BETWEEN NOVEMBER 3 AND NOVEMBER 21, 2025.

4) BEARINGS SHOWN HEREON ARE BASED ON NAD83 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON NOVEMBER 3, 2025.

5) ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON NOVEMBER 3, 2025.

NOTES CONTINUED:

6) LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE SHOWN BASED ON SURFACE UTILITIES OBSERVED DURING THE FIELD SURVEY AND RECORD UTILITY INFORMATION. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED. INVERTS ARE LISTED IN A CLOCKWISE DIRECTION ENDING WITH THE INVERT OUT (UNLESS OTHERWISE NOTED).

7) THE SURVEY TRACT IS IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (100 YEAR FLOOD) PER FLOOD INSURANCE RATE MAP NUMBER 33015C0270F, WITH AN EFFECTIVE DATE OF JANUARY 29, 2021.

8) A TOTAL OF 181 (177 STANDARD, 4 MARKED AS ACCESSIBLE) CLEARLY IDENTIFIABLE PARKING SPACES WERE OBSERVED IN CONDUCTING THIS SURVEY.

UTILITY NOTES:

WATER SERVICE - PUBLIC WATER - MUNICIPAL

SEWER SERVICE - PUBLIC SEWER - MUNICIPAL

GAS SERVICE - GAS - UNITIL

ELECTRICAL SERVICE - EVERSOURCE

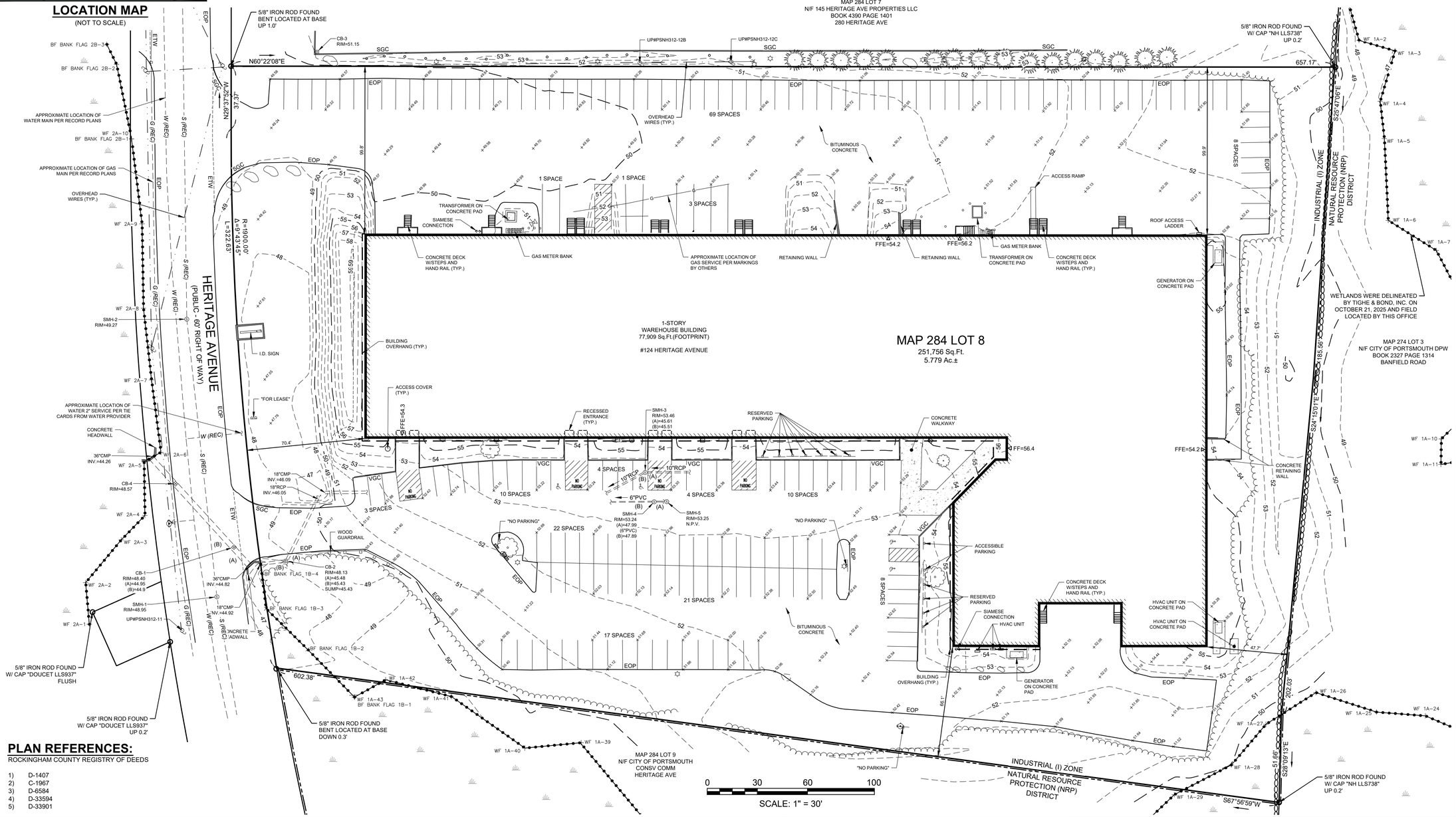
LEGEND

SGC	SLOPED GRANITE CURB	+36.89	SPOT ELEVATION
VGC	VERTICAL GRANITE CURB		CATCH BASIN
E	ELECTRIC UTILITY	V	VENT
G	GAS UTILITY	S	SEWER MANHOLE
OH	OVERHEAD UTILITY		GAS VALVE
W	WATER UTILITY		FIRE HYDRANT
	WOOD GUARDRAIL		BOLLARD
X	HAND RAIL	GM	GAS METER
90	CONTOUR ELEVATION		LIGHT POLE
	TREE		WETLAND LINE
	UTILITY POLE		PROPERTY LINE
	GUY WIRE		ZONE LINE
	PULL BOX/HAND HOLE		ABUTTER PROPERTY LINE
	SIGN		TREELINE

N

NAD 83

LOCATION MAP
(NOT TO SCALE)



PLAN REFERENCES:
ROCKINGHAM COUNTY REGISTRY OF DEEDS

1) D-1407
2) C-1967
3) D-6584
4) D-33594
5) D-33901

GPI Engineering Design Planning Construction Inspection
603.893.0720 GPINET.COM
Greenman-Pedersen, Inc.
44 Stiles Road, Suite One
Salem, NH 03079

PREPARED FOR
TIGHE & BOND, INC.
177 CORPORATE DRIVE
PORTSMOUTH, NH

ASSESSOR MAP 284 LOT 8
124 HERITAGE AVENUE
PORTSMOUTH, NH

STATE OF NEW HAMPSHIRE
No. 1019
SCOTT M. L'ITALIEN
LICENSED LAND SURVEYOR
6/19/2026

NO.	REVISION	DATE
1	WETLAND NOTE	6/19/26

JUNE 16, 2026

DRAWN/DESIGN BY	CHECKED BY
CSS	AKC/SML

EXISTING CONDITIONS PLAN

SCALE: 1"=30'

NEX-2200150.60

1 OF 1

\\MA1-FS3\Vcompany_data\Projects\NEX-2200150 - Tighe & Bond MSA\60 - Portsmouth, NH - 124 Heritage Ave\CAD Files\2200150.60_SV.dwg ECP 6/19/26 12:55pm siallen

EXISTING CONDITIONS PLAN NOTES:

1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY BY GREENMAN-PEDERSON INC., DATED DECEMBER 2025.
2. WETLANDS AND AREAS UNDER THE JURISDICTION OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, PURSUANT TO NH ADMINISTRATIVE RULES CHAPTER ENV-WT 100-900, WERE DELINEATED BY TIGHE & BOND ON OCTOBER 21, 2025 USING THE FOLLOWING METHODOLOGY AND STANDARDS:
   - REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
   - NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA.
   - U.S. ARMY CORPS OF ENGINEERS. (2023). 2022 NATIONAL WETLAND PLANT LIST, VERSION 3.6. U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, VICKSBURG, MS. HTTP://WETLAND-PLANTS.USACE.ARMY.MIL/
   - NEW HAMPSHIRE ADMINISTRATIVE RULE CHAPTER ENV-WT 406, DELINEATION AND CLASSIFICATION OF JURISDICTIONAL AREAS, EFFECTIVE DECEMBER 15, 2019.

GENERAL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
4. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION (E.G., EXISTING UTILITIES) SHOWN ON THESE DRAWINGS IS NOT GUARANTEED AND SOME SUBSURFACE INFORMATION MAY NOT BE SHOWN. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL SUBSURFACE FEATURES WHICH MAY AFFECT CONSTRUCTION OPERATIONS BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND OTHER SUBSURFACE FEATURES, AND/OR INTERRUPTIONS IN UTILITY SERVICE. PROVIDE DATA COLLECTED THROUGH THESE INVESTIGATIONS TO THE ENGINEER PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL
6. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES & SPECIFICATIONS.
9. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAY WITH THE CITY OF PORTSMOUTH.
10. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
11. THE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR AND SHALL INCLUDE A FULL TOPOGRAPHY SURVEY WITHIN THE LIMITS OF WORK INCLUDING BUT NOT LIMITED TO SITE TOPOGRAPHY, SITE FEATURES, (BUILDINGS, ROADS, CURBS, SIDEWALK, ETC.), STORM DRAINAGE, AND SURFACE & SUBSURFACE UTILITIES.
12. BEFORE ANY DEWATERING IS PERFORMED A TEMPORARY DISCHARGE PERMIT FROM THE NHDES IS REQUIRED.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
14. WHEN WORKING IN THE RIGHT OF WAY, THE CONTRACTOR SHALL PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS, AND COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, THE CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
15. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
16. NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
17. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
18. REMOVAL OR CUTTING OF VEGETATION WITHIN WETLAND BUFFER AREAS SHALL ONLY BE COMPLETED UNDER THE REQUIREMENTS AND RESTRICTIONS SET FORTH BY THE CITY OF PORTSMOUTH ZONING ORDINANCE SECTION 10.1018.23.
19. THE USE OF FERTILIZERS, PESTICIDES, AND HERBICIDES WITHIN WETLAND BUFFER AREAS SHALL BE LIMITED BY THE RESTRICTIONS SET FORTH BY THE CITY OF PORTSMOUTH ZONING ORDINANCE SECTIONS 10.1018.24 AND 10.1018.25.

DEMOLITION NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
3. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY ARE ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
5. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ITEMS ONLY AS SPECIFICALLY IDENTIFIED ON THE DRAWINGS. IF IF IS UNCLEAR TO THE CONTRACTOR WHETHER AN ITEM SHOULD BE REMOVED, THEY SHALL COORDINATE WITH THE OWNER AND/OR ENGINEER PRIOR TO REMOVAL.
7. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
9. THE CONTRACTOR SHALL COORDINATE; REMOVAL, RELOCATION, DISPOSAL, ABANDONMENT, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.
11. SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
12. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
13. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
14. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.
15. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
16. THE CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
17. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
18. BOLD LINETYPES AND FEATURES SHOWN WITHIN THE LIMITS OF WORK INDICATE SITE FEATURES TO BE REMOVED, WHILE FADED LINETYPES AND FEATURES ARE TO REMAIN, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.

SITE NOTES:

1. PAVEMENT MARKINGS, INCLUDING BUT NOT LIMITED TO; PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, CROSS WALKS, ARROWS, LEGENDS, AND CENTERLINES, SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND DETAILS, AND SHALL MEET THE FOLLOWING REQUIREMENTS:
   - ALL ON-SITE PAVEMENT MARKINGS SHALL BE CONSTRUCTED USING WHITE TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE "F".
   - ALL PAVEMENT MARKINGS WITHIN PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, AND APPLICABLE DEPARTMENT OF TRANSPORTATION (DOT), STANDARD SPECIFICATIONS.
2. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION, "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" CURRENT EDITION, AND THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE ARCHITECTURAL BARRIERS ACT (ABA).
3. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
4. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
5. THE CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED.
6. ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW.
7. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WALL DESIGN FROM STRUCTURAL ENGINEER AND/OR WALL MANUFACTURER. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO CONSTRUCT WALL IN ACCORDANCE WITH DESIGN APPROVED BY THE ENGINEER. RETAINING WALL SHALL BE SEGMENTAL BLOCK WALL SYSTEM AS OUTLINED IN THE DETAILS.
9. PROPERTY MANAGER WILL BE RESPONSIBLE FOR TIMELY SNOW REMOVAL FROM ALL PUBLIC WALKS, DRIVES, AND PARKING AREAS ON-SITE. SNOW SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF, WHEN NECESSARY, WHEN SNOW STORAGE AREAS HAVE REACHED CAPACITY.
10. PROPERTY MANAGER AND/OR TENANT(S) SHALL MONITOR PALLET STORAGE AREAS IDENTIFIED ON THE PLANS. PALLETS SHALL BE BE HAULED OFF-SITE AND LEGALLY DISPOSED OF, WHEN NECESSARY, WHEN PALLET STORAGE AREAS HAVE REACHED CAPACITY.

GRADING AND DRAINAGE NOTES:

9. GENERAL COMPACTION REQUIREMENTS:
   - BELOW PAVED OR CONCRETE AREAS: 95%
   - TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL: 95%
   - BELOW LOAM AND SEED AREAS: 90%
   - * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
3. SEE UTILITY PLAN FOR ALL SITE UTILITY INFORMATION.
4. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
5. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING.
6. PROVIDE SITE GRADING AT ACCESSIBLE SIDEWALK RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA). SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
   - ACCESSIBLE PARKING STALLS AND PASSENGER LOADING ZONES (IN ANY DIRECTION) SHALL BE < 2.0%
   - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES SHALL BE < 5.0%
   - CROSS SLOPE ALONG ACCESSIBLE ROUTES SHALL BE < 2.0%
7. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
9. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
10. ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4' SUMPS.
11. THE CONTRACTOR SHALL VERIFY INVERTS OF EXISTING DRAIN LINES AND STRUCTURES AT PROPOSED DRAINAGE CONNECTION LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.

UTILITY NOTES:

1. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
   - NATURAL GAS - UNITIL
   - WATER - CITY OF PORTSMOUTH
   - SEWER - CITY OF PORTSMOUTH
   - ELECTRIC - EVERSOURCE
   - COMMUNICATIONS - CONSOLIDATED COMM/FAIRPOINT/COMCAST
2. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
3. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.
4. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CURRENT EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
5. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.
6. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
7. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
8. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
10. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
11. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
12. THE CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ABUTTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
13. SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.

ABBREVIATIONS

ABDN'(D)	ABANDON(ED)	FF	FINISH FLOOR	PRC	POINT OF REVERSE CURVATURE
AC	ASBESTOS CEMENT PIPE	FM	FORCE MAIN	PROT	PROTECT
APPROX	APPROXIMATE	G	GAS	PSF	POUNDS PER SQUARE FOOT
BC	BITUMINOUS CURB	GG	GAS GATE	PSI	POUNDS PER SQUARE INCH
BFP	BACK FLOW PREVENTOR	GRAN	GRANITE	PT	POINT OF TANGENCY
BIT	BITUMINOUS	HC	HANDICAP	PVC	POLYVINYLCHLORIDE
BL	BASELINE	HDPE	HIGH DENSITY POLYETHYLENE	PVMT	PAVEMENT
BLDG	BUILDING			R	RADIUS
BND	BOUND	HMA	HOT MIX ASPHALT	RCP	REINFORCED CONCRETE PIPE
BOC	BOTTOM OF CURB	HYD	HYDRANT	RD	ROOF DRAIN
BOT	BOTTOM	IN	INCHES	REV	REVISION
BS	BOTTOM OF STEP	INV	INVERT	ROW	RIGHT OF WAY
BW	BOTTOM OF WALL	IP	IRON PIN	RT	RIGHT
CATV	CABLE TELEVISION	L	LENGTH OF CURB	R&D	REMOVE AND DISPOSE
CB	CATCH BASIN	LP	LIGHT POLE	R&R	REMOVE AND RESET
CCW	CEMENT CONCRETE WALK	LT	LEFT	R&S	REMOVE AND STACK
CEM	CEMENT	MAX	MAXIMUM	S	SOUTH
CI	CAST IRON PIPE	MH	MANHOLE	SAN	SANITARY
CL	CENTERLINE	MIN	MINIMUM	SCH	SCHEDULE
CLF	CHAIN LINK FENCE	MISC	MISCELLANEOUS	SF	SQUARE FOOT
CO	CLEAN OUT	MON	MONUMENT	SMH	SEWER MANHOLE
CONC	CONCRETE	MJ	MECHANICAL JOINT	SS	STAINLESS STEEL
CPP	CORRUGATED POLYETHYLENE PIPE	N	NORTH	STA	STATION
		NTC	NOT IN THIS CONTRACT	STL	STEEL
CY	CUBIC YARD	NTS	NOT TO SCALE	STRM	STORM
DH	DRILL HOLE	N/A	NOT APPLICABLE	T	TANGENT LENGTH
DI	DUCTILE IRON PIPE	N/F	NOW OR FORMERLY	TC	TOP OF CURB
DIA	DIAMETER	OC	ON CENTER	TEL	TEL-DATA
DMH	DRAIN MANHOLE	OCS	OUTLET CONTROL STRUCTURE	TP	TEST PIT
E	EAST			TS	TOP OF STEP
EF	EACH FACE	OH	OVERHEAD	TW	TOP OF WALL
EG	EXISTING GRADE	PB	PLANT BED	TYP	TYPICAL
EL/ELEV	ELEVATION	PC	POINT OF CURVATURE	UP	UTILITY POLE
ELEC	ELECTRIC	PCC	POINT OF COMPOUND CURVATURE	W	WATER
EMH	ELECTRIC MANHOLE			WG	WATER GATE
EOP	EDGE OF PAVEMENT	PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE	WV	WATER VALVE
EW	EACH WAY			XFMR	TRANSFORMER
EXIST	EXISTING	PERF	PERFORATED		
FES	FLARED END SECTION	PI	POINT OF INTERSECTION		

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		ADJACENT PROPERTY LINE
		RIGHT OF WAY (ROW) LINE
		EASEMENT LINE
		ZONING DISTRICT BOUNDARY LINE (APPROX)
		BUILDING SETBACK LINE
8	8	INTERMEDIATE CONTOURS
10	10	INDEX CONTOURS
44.45	44.45	SPOT / APPROX SPOT GRADE
	2%	MAGNITUDE & DIRECTION OF SLOPE
		LIMIT OF WETLANDS WATER COURSE
		LIMIT OF VEGETATED WETLAND
PEM1F		WETLAND CLASSIFICATION TYPE
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 25 FEET)
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 50 FEET)
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 100 FEET)
		LIMIT OF WORK (APPROX)
		LIMIT OF SAWCUT (APPROX)
		LIMIT OF EROSION CONTROL (APPROX)
		INLET PROTECTION
		PAVEMENT / CONCRETE SECTION TO BE REMOVED (APPROX)
		EDGE OF PAVEMENT
VGC	VGC	VERTICAL GRANITE CURB
SGC	SGC	SLOPED GRANITE CURB
	15"R	CURB RADIUS
		PAVEMENT SECTION
		CONCRETE SIDEWALK & TIP DOWN RAMP
X	X	FENCE
		GUARDRAIL
		LIGHT POLE / BASE
		SIGN
		BOLLARD
		SNOW STORAGE (APPROX)
	STOP	PAVEMENT STRIPING
		TREE LINE (APPROX)
		STONE WALL
		RETAINING WALL
SD		STORM DRAIN
		STORM UNDERDRAIN
D		STORM DRAIN MANHOLE
		STORM DRAIN INLETS
		FLARED END SECTION & RIP RAP APRON
SS	SS	GRAVITY SANITARY SEWER
XS	XS	GRAVITY SANITARY SEWER (APPROX)
S		SANITARY SEWER STRUCTURES
W	W	WATER SERVICE
XW	XW	WATER SERVICE (APPROX)
WV	WV THRUST BLOCK	WATER SERVICE STRUCTURES
E	E	UNDERGROUND ELECTRIC
XE	XE	UNDERGROUND ELECTRIC (APPROX)
OHE	OHE	OVERHEAD UTILITY (UNSPECIFIED)
COM	T-C	UNDERGROUND COMMUNICATIONS SERVICE
E T	E T	UNDERGROUND ELECTRIC / COMMUNICATIONS SERVICE STRUCTURES
		UTILITY POLE
G	G	GAS SERVICE
XG	XG	GAS SERVICE (APPROX)
	GV	GAS SERVICE STRUCTURES
		DECIDUOUS TREE
		EVERGREEN TREE
		ORNAMENTAL TREE
		SHRUBS / GROUND COVERS

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NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
7/22/26

PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
7/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

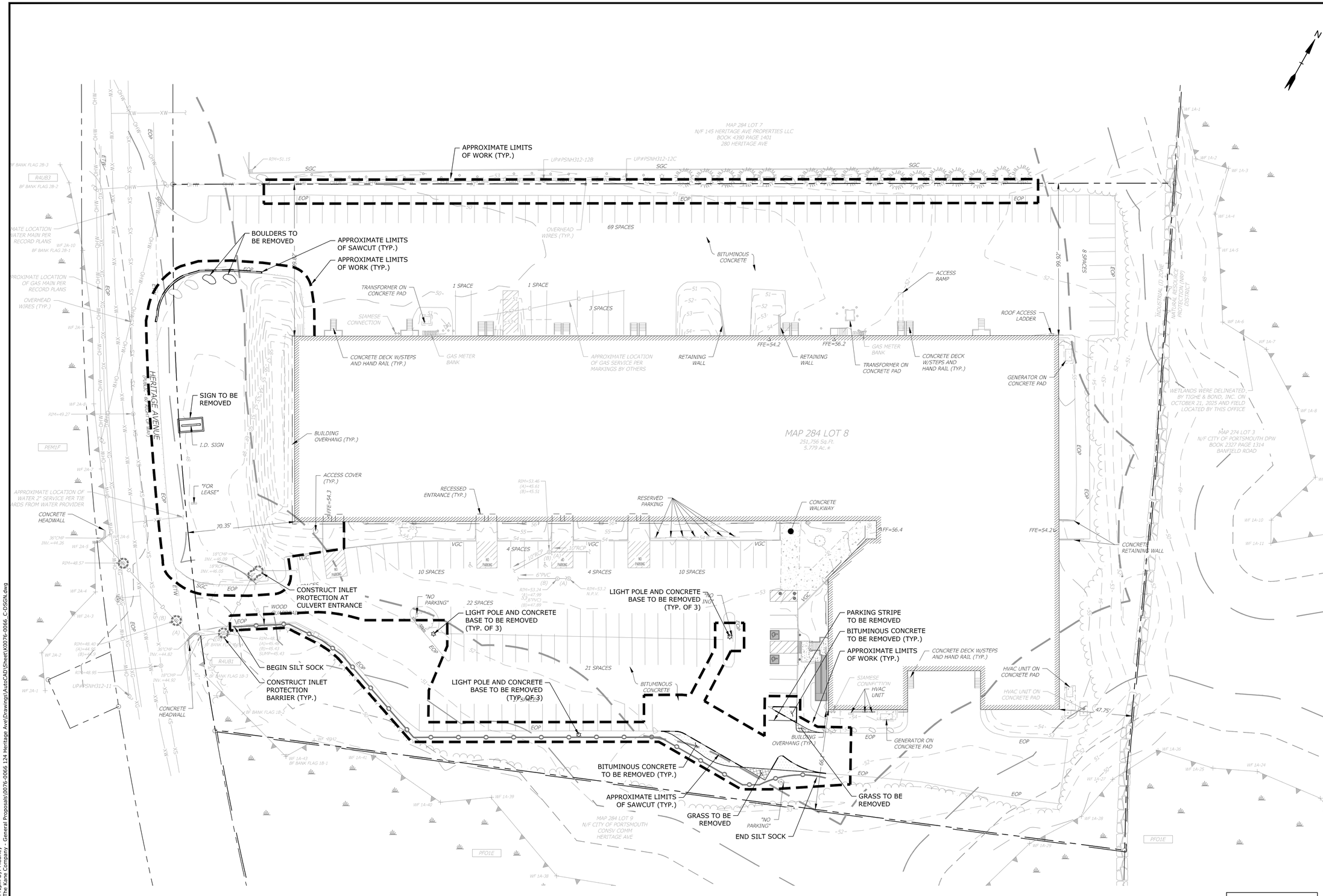
PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DSGN.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

GENERAL NOTES AND LEGEND

SCALE:

G-001

Last Saved: 7/8/2026
Printed: Jul 22, 2026 - 1:58pm By: BCurcio
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STATE OF NEW HAMPSHIRE
STEFANIE M. TETREAULT
No. 315
CERTIFIED WETLAND SCIENTIST
06/22/2026

STATE OF NEW HAMPSHIRE
NEIL A. HANSEN
No. 15227
LICENSED PROFESSIONAL ENGINEER
6/22/26

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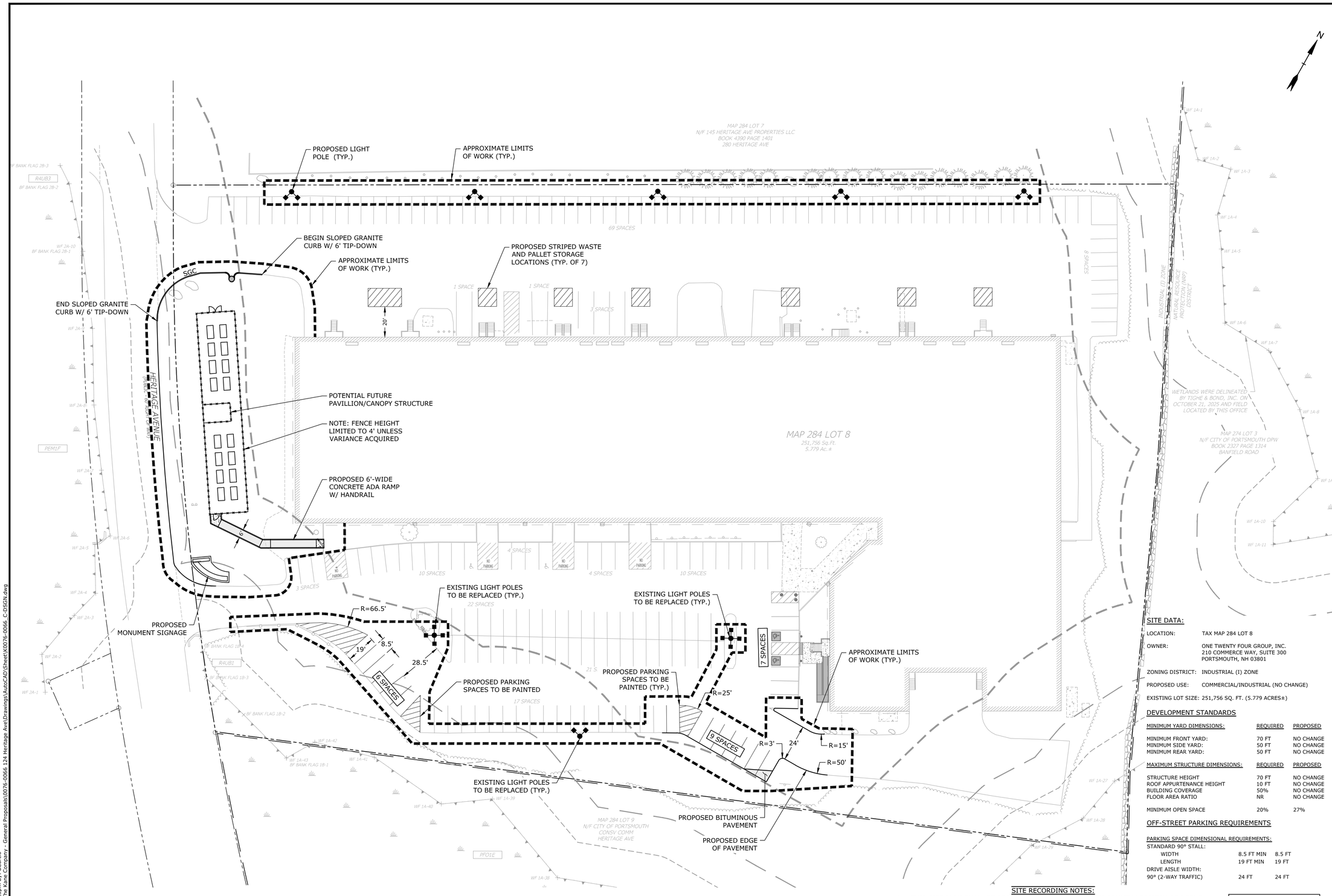
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CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

DEMOLITION PLAN

SCALE:

C-101



SITE DATA:

LOCATION: TAX MAP 284 LOT 8

OWNER: ONE TWENTY FOUR GROUP, INC.
210 COMMERCE WAY, SUITE 300
PORTSMOUTH, NH 03801

ZONING DISTRICT: INDUSTRIAL (I) ZONE

PROPOSED USE: COMMERCIAL/INDUSTRIAL (NO CHANGE)

EXISTING LOT SIZE: 251,756 SQ. FT. (5.779 ACRES±)

DEVELOPMENT STANDARDS

MINIMUM YARD DIMENSIONS:	REQUIRED	PROPOSED
MINIMUM FRONT YARD:	70 FT	NO CHANGE
MINIMUM SIDE YARD:	50 FT	NO CHANGE
MINIMUM REAR YARD:	50 FT	NO CHANGE
MAXIMUM STRUCTURE DIMENSIONS:	**REQUIRED**	**PROPOSED**
STRUCTURE HEIGHT	70 FT	NO CHANGE
ROOF APPURTENANCE HEIGHT	10 FT	NO CHANGE
BUILDING COVERAGE	50%	NO CHANGE
FLOOR AREA RATIO	NR	NO CHANGE
MINIMUM OPEN SPACE	20%	27%

OFF-STREET PARKING REQUIREMENTS

PARKING SPACE DIMENSIONAL REQUIREMENTS:

STANDARD 90° STALL:		
WIDTH	8.5 FT MIN	8.5 FT
LENGTH	19 FT MIN	19 FT
DRIVE AISLE WIDTH:		
90° (2-WAY TRAFFIC)	24 FT	24 FT

SITE RECORDING NOTES:

1. THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
2. ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
3. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
4. THIS IS NOT A BOUNDARY SURVEY AND SHALL NOT BE USED AS SUCH.

SEE SHEET C-101 FOR PLAN NOTES & LEGEND

0 30' 60'

SCALE: 1" = 30'

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STATE OF NEW HAMPSHIRE
NEIL A. HANSEN
No. 15227
LICENSED PROFESSIONAL ENGINEER
7/22/26

STATE OF NEW HAMPSHIRE
PATRICK CRIMMINS
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One Twenty Four Group, Inc.

Portsmouth, New Hampshire

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C	7/22/2026	TAC SUBMISSION
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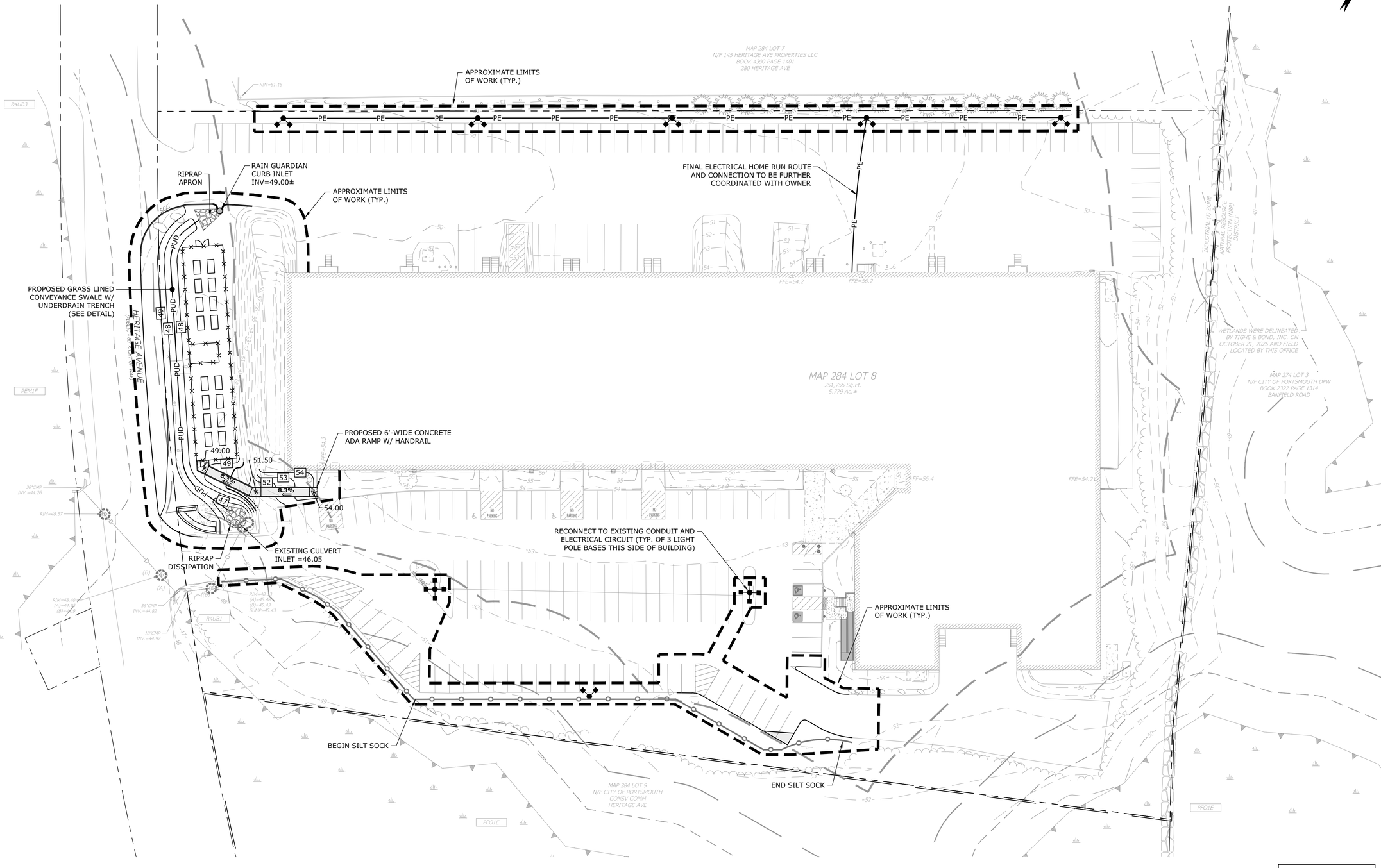
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SITE PLAN

SCALE:

C-201

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Plotted: Jun 19, 2026 - 4:43pm By: MCurley
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STATE OF NEW HAMPSHIRE – NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER – 6/22/26

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One Twenty Four Group, Inc.

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APPROVED BY:	P.CRIMMINS

GRADING, DRAINAGE, EROSION CONTROL, AND UTILITIES PLAN

SCALE:

C-301

GENERAL PROJECT INFORMATION

PROJECT OWNER:	ONE TWENTY FOUR GROUP, INC. 210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801
PROJECT NAME:	PROPOSED PARKING LOT IMPROVEMENTS
PROJECT ADDRESS:	124 HERITAGE AVENUE PORTSMOUTH, NH 03801
PROJECT MAP / LOT:	MAP 284 / LOT 8
PROJECT LATITUDE:	43°-2'-6.21"N
PROJECT LONGITUDE:	70°-47'-46.66"W

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES STRIPING ADDITIONAL PARKING SPACES, A PROPOSED ADA RAMP AND STAIRS, AND A PROPOSED GARDEN AREA. THE PROJECT WILL ALSO CONSIST OF ASSOCIATED SITE IMPROVEMENTS SUCH AS STORMWATER MANAGEMENT, UTILITIES AND LIGHTING.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 0.25 ACRES.

SOIL CHARACTERISTICS

BASED ON THE NRCS WEB SOIL SURVEY FOR ROCKINGHAM COUNTY - NEW HAMPSHIRE, THE SOILS ON SITE CONSIST OF MAYBID SILT SOILS WHICH ARE POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATING OF C/D, AND HOOSIC GRAVELLY FINE SANDY LOAM SOILS WHICH ARE SOMEWHAT EXCESSIVELY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATING OF A.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED WETLAND.

CONSTRUCTION SEQUENCE PLAN OF MAJOR ACTIVITIES:

1. CONSTRUCT TEMPORARY AND PERMANENT PERIMETER EROSION CONTROLS, SEDIMENT CONTROLS AND DETENTION MEASURES, PRIOR TO ANY EARTH MOVING OPERATIONS THAT MAY AFFECT STORMWATER RUNOFF SUCH AS:
   - DISPOSAL OF SEDIMENT SPOIL, STUMPS, DEMOLITION DEBRIS, AND OTHER SOLID WASTE
   - CONTROL OF DUST
   - CONSTRUCTION OF DRIVES, PARKING AREAS, AND OTHER IMPERVIOUS SURFACES
   - INSTALLATION OF UTILITIES AND BUILDINGS & BLEACHERS CONSTRUCTION
   - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
1. DEMOLISH ALL SITE FEATURES AS DIRECTED ON THE DRAWINGS. CLEAR AND DISPOSE OF DEBRIS IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
2. CUT AND CLEAR TREES ACROSS SITE. (GRUBBING SHALL NOT OCCUR UNTIL AFTER THE INSTALLATION OF PERIMETER CONTROLS.)
3. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE ENTIRETY OF CONSTRUCTION. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS NEEDED IN ACCORDANCE WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND DIRECTION OF THE ENVIRONMENTAL MONITOR.
4. NOTE THAT ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS SHALL BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
5. CONSTRUCT TEMPORARY CULVERTS, DIVERSION CHANNELS, AND/OR BASINS AS REQUIRED. SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
6. COMPLETE MASS GRADING AND EARTHWORK IN ORDER TO ESTABLISH SITE SUBGRADE ELEVATIONS, AS WELL AS EXCAVATION NECESSARY TO CONSTRUCT FOUNDATIONS FOR PROPOSED STRUCTURES.
7. CONSTRUCT UNDERGROUND DRAINAGE, UTILITY AND LIGHTING INFRASTRUCTURE NECESSARY TO SUPPORT TEMPORARY AND PERMANENT CONDITIONS. ALL TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
8. ALL AREAS OF UNSTABILIZED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE, BUT IN ALL CASES WITHIN 45 DAYS OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT, OR AN INDEPENDENT MONITOR. ALL AREAS OF TEMPORARILY STABILIZED SOIL SHALL PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT IN ALL CASES WITHIN 3 DAYS OF FINAL GRADING.
9. CONSTRUCT BASE COURSE GRAVELS FOR ALL DRIVES AND PARKING AREAS. ALL DRIVES AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
10. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES THAT HAVE NOT BEEN OTHERWISE STABILIZED BY GRAVELS SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
11. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
12. FINISH PAVING ALL DRIVES, AND PARKING AREAS. CONSTRUCT ALL HARDSCAPE, FIELD SURFACES AND SITE AMENITIES/FEATURES.
13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
14. REMOVE TRAPPED SEDIMENTS FROM ALL EROSION CONTROL MEASURES AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

1. THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE. THE AREA OF DISTURBANCE SHALL ONLY EXCEED FIVE (5) ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED IF AN ENVIRONMENTAL MONITOR IS EMPLOYED DURING CONSTRUCTION IN ACCORDANCE WITH Env-Wq 1505.03.
2. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:51-57 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES. ANY INVASIVE OR NOXIOUS PLANT SPECIES ENCOUNTERED DURING CONSTRUCTION SHALL BE CONTROLLED IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "ENV 1, MANUAL 1 – BEST MANAGEMENT PRACTICES FOR CONTROL OF INVASIVE AND NOXIOUS PLANT SPECIES", CURRENT EDITION.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL, LATEST EDITION.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES FOR APPROVAL.
3. AS THE FIRST ORDER OF WORK, PRIOR TO ANY EARTH DISTURBANCE, THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO; INLET PROTECTION BARRIERS, SILT SOCKS, SILT FENCES, MULCH BERMS, AND STABILIZED CONSTRUCTION EXITS AS SHOWN ON THE DRAWINGS, AND AS REQUIRED BY ALL STATE AND LOCAL PERMITS AND APPROVALS.
4. INLET PROTECTION BARRIERS SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS/CURB INLETS AND YARD DRAINS WITHIN THE LIMITS OF WORK AS WELL AS ANY CATCH BASINS/CURB INLETS AND YARD DRAINS THAT RECEIVE RUNOFF FROM ANY CONSTRUCTION ACTIVITIES. THESE MEASURES SHALL BE FULLY MAINTAINED FOR THE DURATION OF THE PROJECT.
5. PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL ALL NON-PAVED AREAS HAVE BEEN STABILIZED.
6. CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKETS ON ALL STEEP SLOPE AREA (3:1 OR GREATER).
7. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES INCLUDE, BUT NOT LIMITED TO; MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST, MECHANICAL SWEEPERS ON PAVED SURFACES, AND COVERING SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.
8. THE CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, INLET PROTECTION BARRIERS, PERIMETER SEDIMENT CONTROLS, AND STEEP SLOPE EROSION CONTROL BLANKETS INSPECTED BY A QUALIFIED PERSON AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.25 INCHES OR GREATER. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED, REPAIRED, MODIFIED, OR ADDITIONAL MEASURES INSTALLED AS NECESSARY TO ADDRESS EVOLVING CONDITIONS DURING CONSTRUCTION.
9. SEDIMENT CONTROL FILTER MEASURES SHALL BE REPLACED WHEN SEDIMENT REACHES 1/3 THE HEIGHT OF THE FILTER.
10. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
11. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.

STABILIZATION:

1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
   - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
     - a. IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM 304.2 HAVE BEEN INSTALLED.
   - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
   - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
2. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
3. ALL ROADS, DRIVES AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
4. WINTER STABILIZATION PRACTICES:
   - A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
   - B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
   - C. AFTER OCTOBER 15, INCOMPLETE ROAD, DRIVES, OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
   - D. FOR OVER-WINTER PROTECTION, A DOUBLE ROW OF SEDIMENT BARRIERS (SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX, ETC.) SHALL BE PLACED WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE AREA.
3. STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
   - A. TEMPORARY SEEDING;
   - B. MULCHING.
4. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
5. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
6. DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

DUST CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.
3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

STOCKPILES:

1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING:

1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION EXIT(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION:

1. TEMPORARY GRASS COVER:
   - A. SEEDBED PREPARATION:
     - a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
   - B. SEEDING:
     - a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
     - b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
     - c. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
   - C. MAINTENANCE:
     - a. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
2. PERMANENT MEASURES AND PLANTINGS:
   - A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
   - B. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
   - C. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;
   - D. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. 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;
   - E. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;
   - F. 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 WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;
   - G. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
   - H. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREEPING RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
REDTOP	2 LBS/ACRE

   IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.
3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
   - A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

CONCRETE WASHOUT AREA:

1. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
2. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
3. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;
4. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:

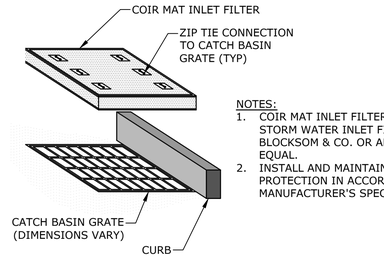
1. THE FOLLOWING ARE THE ONLY STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
   - A. FIRE-FIGHTING ACTIVITIES;
   - B. FIRE HYDRANT FLUSHING;
   - C. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
   - D. WATER USED TO CONTROL DUST;
   - E. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
   - F. ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
   - G. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
   - H. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
   - I. UNCONTAMINATED GROUND WATER OR SPRING WATER;
   - J. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
   - K. UNCONTAMINATED EXCAVATION DEWATERING;
   - L. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

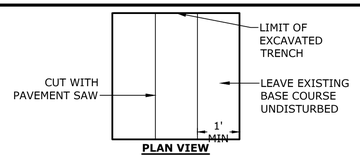
1. WASTE MATERIAL:
   - A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
   - B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
   - C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
2. HAZARDOUS WASTE:
   - A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
   - B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
3. SANITARY WASTE:
   - A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

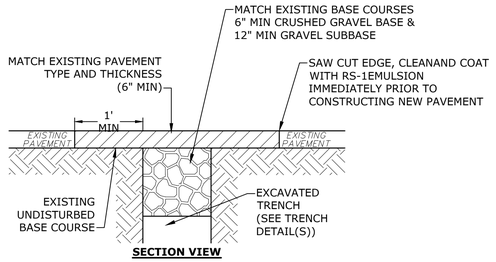
1. CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY ALL LOCAL, STATE AND FEDERAL REGULATIONS. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
   - A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
     - a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
     - b. ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE;
     - c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
     - d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
     - e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
     - f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
     - g. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
   - B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
     - a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
     - b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
     - c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
3. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
   - a. PETROLEUM PRODUCTS:
     - ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
     - PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
     - SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
     - INSPECT FUEL STORAGE AREAS WEEKLY;
     - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
     - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
     - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
     - THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
       (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
       (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
       (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
       (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
       (5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
     - FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT. https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/dwgb-22-6.pdf
   - b. FERTILIZERS:
     - FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
     - ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
     - STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
     - PAINTS:
     - ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
     - EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
     - EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
4. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   - a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
   - b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
   - c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
   - d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
   - e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
   - f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
5. VEHICLE FUELING AND MAINTENANCE PRACTICE:
   - a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
   - b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
   - c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
   - d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
   - e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
   - f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.



NOTES:
1. COIR MAT INLET FILTER SHALL BE STORM WATER INLET FILTER BY BL



PLAN VIEW

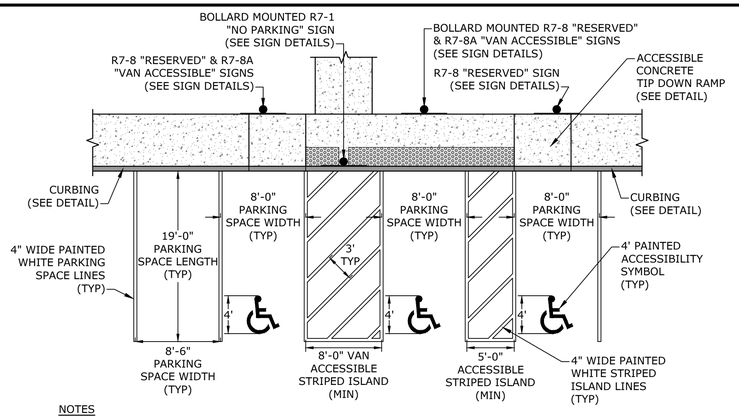


SECTION VIEW

NOTES
1. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR ALL TRENCHING AND PATCHING WITHIN CITY RIGHT OF WAY WITH CITY OF PORTSMOUTH DPW PRIOR TO COMMENCING WORK.

ROADWAY TRENCH PATCH

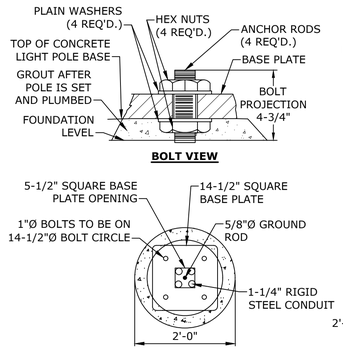
NO SCALE



NOTES
1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS.
2. SYMBOLS & PARKING STALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND ALL STATE AND LOCAL REQUIREMENTS.
3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

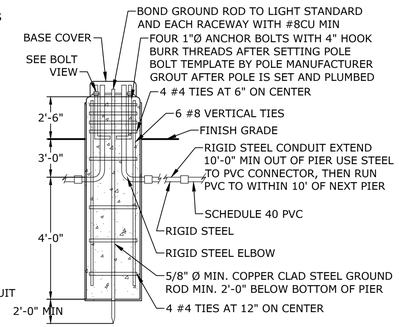
TYPICAL PARKING SPACE STRIPING AND ACCESSIBLE ACCESS LAYOUT

NO SCALE



BOLT VIEW

PLAN VIEW

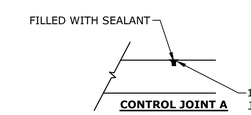


SECTION VIEW

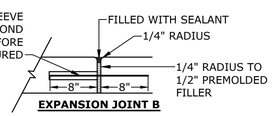
NOTES
1. PAINT BASE SAFETY YELLOW (UNLESS PROTECTED BY CURBED ISLAND).
2. CONCRETE TO BE CLASS A, 4,000 PSI, AIR ENTRAINED STEEL TO BE 60 KSI
3. REFER TO ELECTRICAL PLANS FOR WIRING DETAILS.
4. LIGHT POLE BASE DETAIL FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, TO INCLUDE PERFORMANCE SPECIFICATIONS, CALCULATIONS AND NH LICENSED STRUCTURAL ENGINEER'S STAMP FOR LIGHT POLE FOUNDATION.
5. BASE PLATE DETAILS SHOWN AS REFERENCE ONLY. COORDINATE FINAL BASE PLATE DETAIL AND ANCHORING REQUIREMENTS WITH INDIVIDUAL LIGHT POLE BASE AND MANUFACTURER REQUIREMENTS.

TYPICAL LIGHT POLE BASE

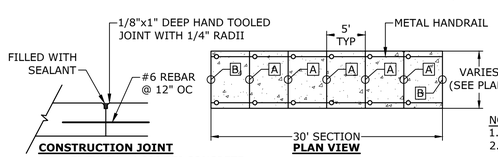
NO SCALE



CONTROL JOINT A



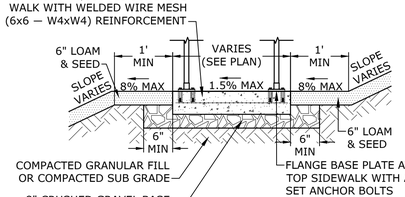
EXPANSION JOINT B



CONSTRUCTION JOINT

PLAN VIEW

5" THICK - 4,000 PSI CONCRETE WALK WITH WELDED WIRE MESH (6x6 — W4xW4) REINFORCEMENT

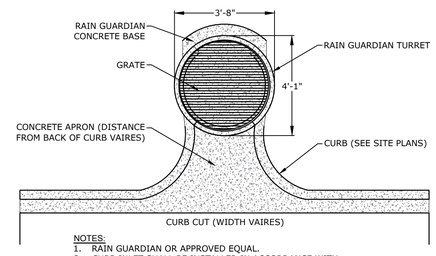


SECTION VIEW

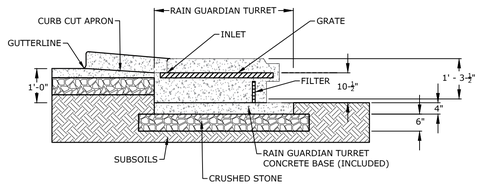
NOTES:
1. SEE SITE PLAN FOR SIDEWALK WIDTH AND LOCATIONS.
2. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR WALK AND SIDE SLOPE GRADES.
3. SIDEWALK SURFACE SHALL GIVEN A BROOM FINISH.
4. ISOLATION JOINTS ADJACENT TO BUILDING SHALL BE COORDINATED WITH BUILDING DRAWINGS.
5. CONTRACTOR SHALL SUBMIT THE PROPOSED CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
6. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.

CONCRETE SIDEWALK

NO SCALE

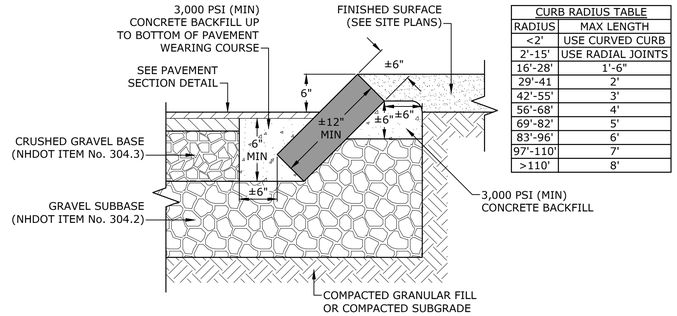


NOTES:
1. RAIN GUARDIAN OR APPROVED EQUAL.
2. CURB INLET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE RECOMMENDATION.



RAIN GUARDIAN TURRET

NO SCALE

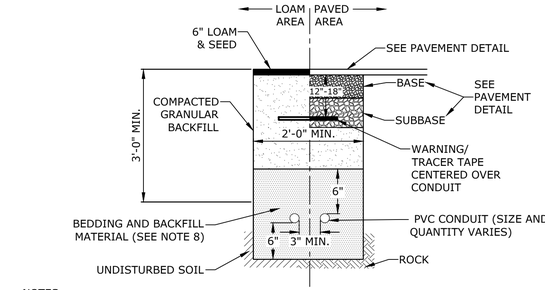


CURB RADIUS TABLE	
RADIUS	MAX LENGTH
<2'	USE CURVED CURB
2'-15'	USE RADIAL JOINTS
16'-28'	1'-6"
29'-41	2'
42'-55'	3'
56'-68'	4'
69'-82'	5'
83'-96'	6'
97'-110'	7'
>110'	8'

NOTES
1. SEE SITE PLANS FOR LIMITS OF SLOPED GRANITE CURB (SGC).
2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
3. MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
4. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 10'
5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
6. JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.
8. SLOPED GRANITE CURB WITHIN THE CITY ROW SHALL BE NHDOT SPEC 609.21.

SLOPED GRANITE CURB (SGC)

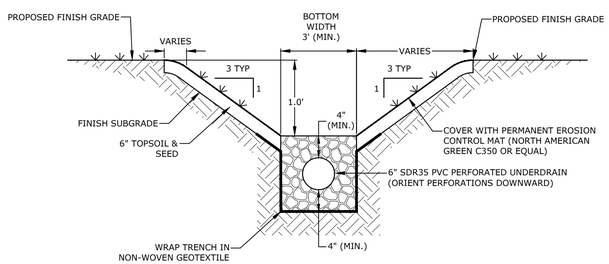
NO SCALE



NOTES:
1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
2. DIMENSIONS SHOWN REPRESENT MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
3. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
4. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
5. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
6. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
7. ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 36 TO 48 INCH RADIUS.
8. SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, OR WHERE SHOWN ON THE UTILITIES PLAN.
9. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW CONDUIT UP TO 6" ABOVE TOP OF CONDUIT.

LIGHTING CONDUIT TRENCH

NO SCALE



CONVEYANCE SWALE & UNDERDRAIN DETAIL

NO SCALE

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE · NEIL A. HANSEN No. 15227 · LICENSED PROFESSIONAL ENGINEER · 6/22/26

STATE OF NEW HAMPSHIRE · PATRICK CRIMMINS No. 12378 · LICENSED PROFESSIONAL ENGINEER · 6/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

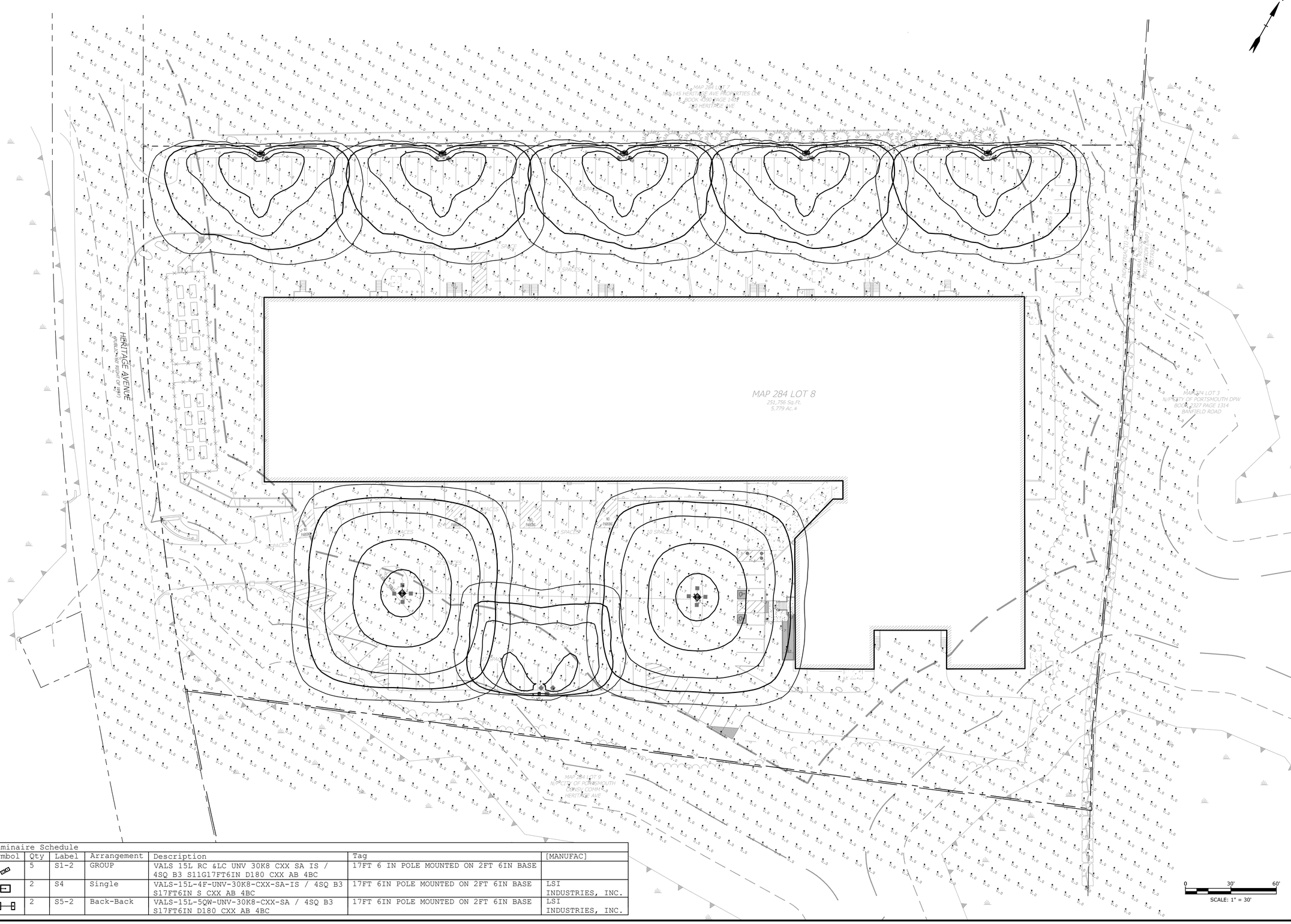
PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DTLS.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

DETAILS SHEET

SCALE:

C-502

Last Saved: 6/19/2026
Plotted: Jun 22, 2026-3:38pm By: MCurley
Tighe & Bond:J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DTLS.dwg



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Description	Tag	[MANUFAC]
	5	S1-2	GROUP	VALS 15L RC &LC UNV 30K8 CXX SA IS / 4SQ B3 S11G17FT6IN D180 CXX AB 4BC	17FT 6 IN POLE MOUNTED ON 2FT 6IN BASE	
	2	S4	Single	VALS-15L-4F-UNV-30K8-CXX-SA-IS / 4SQ B3 S17FT6IN_S CXX AB 4BC	17FT 6IN POLE MOUNTED ON 2FT 6IN BASE	LSI INDUSTRIES, INC.
	2	S5-2	Back-Back	VALS-15L-5QW-UNV-30K8-CXX-SA / 4SQ B3 S17FT6IN D180 CXX AB 4BC	17FT 6IN POLE MOUNTED ON 2FT 6IN BASE	LSI INDUSTRIES, INC.

Last Saved: 6/19/2026
Printed: 6/19/2026 11:30am By: MCurley
Tighe & Bond:J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
NEIL A. HANSEN
No. 15227
LICENSED
6/22/26

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
PATRICK CRIMMINS
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6/22/26

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

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DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

PHOTOMETRIC PLAN

SCALE:

LT-101

GENERAL NOTES:

1. INSTALL SIGNAGE IDENTIFYING NATIVE EDIBLE PLANT SPECIES.
2. BLACKBERRY AND RASPBERRY CAN PROVIDE A PRODUCTIVE EDIBLE COMPONENT TO THE PLANTING AREA. HOWEVER, BOTH SPECIES TEND TO SPREAD VIGOROUSLY THROUGH CANES AND ROOT SUCKERS AND MAY REQUIRE PERIODIC PRUNING AND CONTAINMENT TO MAINTAIN THE INTENDED LAYOUT. IF LONG-TERM MAINTENANCE IS EXPECTED TO BE LIMITED, CONSIDER SUBSTITUTING WITH LOWER-MAINTENANCE EDIBLE NATIVE SHRUBS SUCH AS BLUEBERRY.

MAINTAIN WALKWAY / GATE CLEARANCE

RASPBERRY AND/OR BLACKBERRY PATCH
INSTALL SUPPORT FENCING/TRELLIS TO MAINTAIN UPRIGHT GROWTH AND LIMIT SPREAD BEYOND PLANTING AREA.

VEGETATION ON SLOPE
MOUNTAIN MINT (PYCNANTHEMUM MUTICUM)
NEWP CONSERVATION SEED MIX
https://newp.com/product/new-england-conservation-wildlife-mix/

APPROXIMATE LIMITS OF WORK (TYP.)

PROPOSED GRASS LINED CONVEYANCE SWALE W/ UNDERDRAIN TRENCH (SEE DETAIL)

GROUND COVER IN SHRUB ROW
WILD GERANIUM (GERANIUM MACULATUM)
PENNSYLVANIA SEDGE (CAREX PENSYLVANICA)
TUFTED HAIR GRASS (DESCHAMPSIA CAESPITOSA)

SHRUB ROW
SERVICEBERRY (AMELANCHIER CANADENSIS)
HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
*TWO VARIETIES FOR CROSS-POLLINATION
AMERICAN ELDERBERRY (SAMBUCUS CANADENSIS)

POLLINATOR GARDENS
NEW ENGLAND SHOWY WILDFLOWER SEED MIX
*AUGMENT WITH BEE BALM SPECIES MONARDA FISTULOSA, MONARDA PUNCTATA
https://newp.com/product/new-england-showy-wildflower-mix/
NH COOPERATIVE EXTENSION CUSTOM WILDFLOWER MIX (ALTERNATIVE)
https://extension.unh.edu/sites/default/files/migrated_unmanaged_files/Resource006628_Rep9500.pdf

MAP 284 LOT 7
N/F 145 HERITAGE AVE PROPERTIES LLC
BOOK 4390 PAGE 1401
280 HERITAGE AVE

MAP 284 LOT 8
251,756 Sq.Ft.±
5.779 Ac.±

MAP 274 LOT 3
N/F CITY OF PORTSMOUTH DPW
BOOK 2327 PAGE 1314
BANFIELD ROAD

MAP 284 LOT 9
N/F CITY OF PORTSMOUTH
CONSV COMM
HERITAGE AVE

HERITAGE AVENUE
(PUBLIC - 60' WIDTH)

INDUSTRIAL (I) ZONE
NATURAL RESOURCE PROTECTION (NRP) DISTRICT

WETLANDS WERE DELINEATED BY TIGHE & BOND, INC. ON OCTOBER 21, 2025 AND FIELD LOCATED BY THIS OFFICE

LEGEND
- SERVICEBERRY
- BLUEBERRY
- ELDERBERRY
- RASPBERRY
- BLACKBERRY
- GRASS LINED SWALE
- SHRUB ROW
- RASPBERRY/BLACKBERRY PATCH
- VEGETATION ON SLOPE
- POLLINATOR GARDENS

0 30' 60'
SCALE: 1" = 30'

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE – NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER
6/22/26

STATE OF NEW HAMPSHIRE – PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER
6/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

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B	6/22/2026	TAC SUBMISSION
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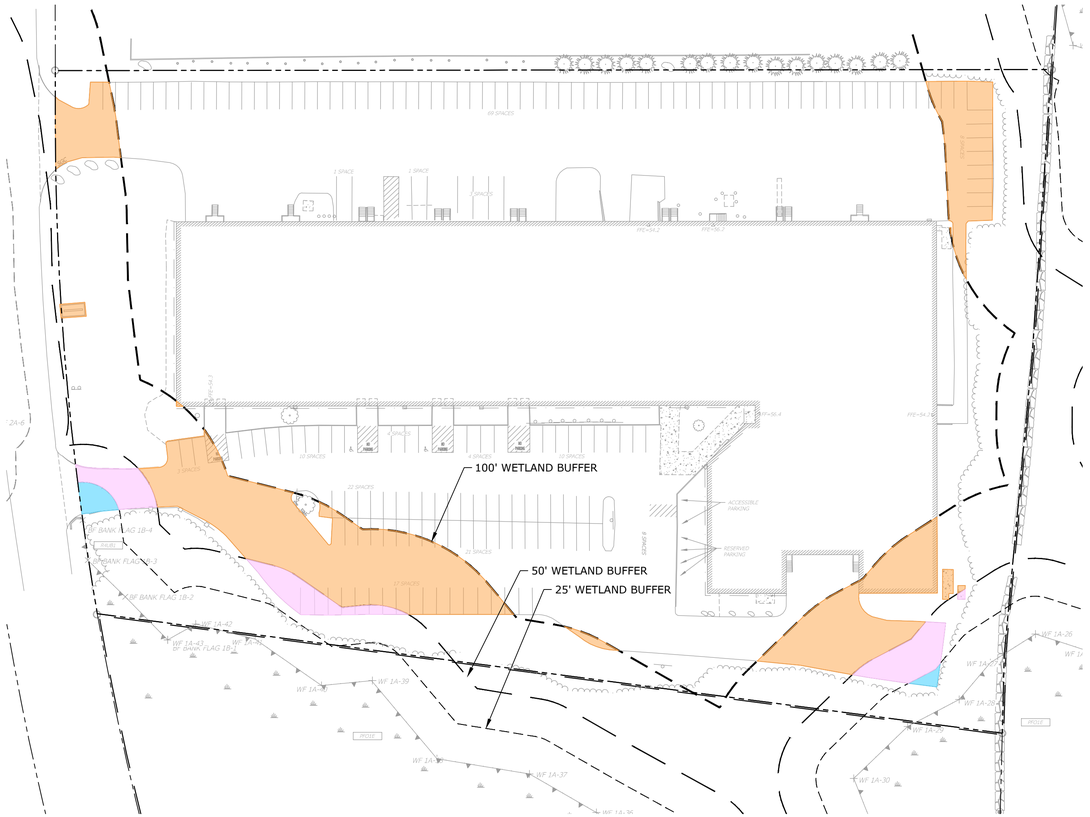
PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DSGN.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

PLANTING PLAN

SCALE:

L-101

Last Saved: 6/19/2026
Plotted: Jun 19, 2026 - 4:48pm By: MCurley
Tighe & Bond: J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg



EXISTING IMPERVIOUS SURFACES
SCALE 1" = 50'



PROPOSED IMPERVIOUS SURFACES
SCALE 1" = 50'

IMPERVIOUS SURFACES WITHIN WETLAND BUFFERS		
LOCAL WETLAND BUFFER SETBACK	WITHIN DEVELOPMENT PARCEL	
	EXISTING (SF)	PROPOSED (SF)
0 - 25 FT	521	521
25 - 50 FT	3,356	3,553
50 - 100 FT	20,747	21,048
TOTAL IMPERVIOUS SURFACE	24,624	25,121
NET IMPERVIOUS SURFACE	498	

0 50' 100'

SCALE: 1" = 50'

124 HERITAGE AVENUE
PORTSMOUTH, NH

WETLAND BUFFER
IMPERVIOUS SURFACE EXHIBIT

DATE: 7/29/2026
SCALE: AS SHOWN
FIGURE: 1 OF 1

Tighe & Bond

Plotted On:Jul 29, 2026-1:37pm By: BCurcio
Tighe & Bond:J:\K\0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg

Technical Memorandum

124 Heritage Avenue Resource Area Delineation

To: Kelsey Kraus, Chief Operating Officer, The Kane Company

From: Stefanie Tetreault, CWS, PWS, Project Manager, Tighe & Bond
Lucas Fromm, Environmental Scientist, Tighe & Bond

Copy: Patrick Crimmins, PE, Vice President, Tighe & Bond
Neil Hansen, PE, Project Manager, Tighe & Bond

Date: June 22, 2026

The following technical memorandum describes the wetland delineation conducted by Tighe & Bond on October 21, 2025 to support the development of an existing conditions plan at 124 Heritage Avenue in Portsmouth, NH. A Site Location Map (Figure 1), Aerial Map (Figure 2) showing the wetland delineation flag locations, and Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRMette) are in provided in Attachment A. Representative site photographs are provided in Attachment B.

Site Location

The subject property is located at 124 Heritage Avenue in Portsmouth, New Hampshire (City of Portsmouth Tax Map 284, Lot 8). The property is bound to the north by a commercial facility, undeveloped forests to the east and west, and Heritage Avenue to the southwest. A municipally-designated Prime Wetland is present southwest of Heritage Avenue. The subject property consists of a multi-use commercial building with associated parking lots northwest and southeast of the building.

Wetland Delineation

On October 21, 2025, a Tighe & Bond New Hampshire Certified Wetland Scientist (CWS) delineated wetland resource areas within the vicinity of the site and evaluated each relative to the applicable local, state, and federal criteria. Wetland resource areas in the vicinity of the proposed work were delineated in accordance with the United States Army Corps of Engineers' (USACE) *Wetlands Delineation Manual and Regional Supplement* (2012), *Field Indicators for Identifying Hydric Soils in New England* (Version 4, 2017), the *New Hampshire Code of Administrative Rules: Delineation and Classification of Jurisdictional Areas* (Chapter Env-Wt 400), and Chapter 10 of the Portsmouth Zoning Ordinance. The evaluation also included a review of publicly available data such as LiDAR elevation data and historic aerial imagery.

Wetland boundaries were marked in the field with alphanumerically labeled survey flagging tape. Flags were located by GPS and by a licensed land surveyor. Local weather yielded approximately 1.51-inches of rain in the week prior to the field delineation, including 0.60 inches in the 24-hour period immediately preceding the delineation. According to the U.S. Drought Monitor, Rockingham County was also experiencing Moderate to Severe Drought at the time of the delineation.[1]

[1] U.S. Drought Monitor. 2025. National Drought Mitigation Center, USDA, and NOAA. Available at: https://droughtmonitor.unl.edu

Summary of Delineated Natural Resource Areas

Two freshwater wetlands, demarcated by Flag Series 1A and 2A, and one intermittent stream, demarcated by Flag Series 1B and 2B were identified within the vicinity of the project site. Wetland 2A is a municipally-designated Prime Wetland with a duly-established 100-foot Prime Wetland buffer. As per Chapter 10 of the Portsmouth Zoning Ordinance, wetlands present on site are afforded a 100-foot wetland buffer. A summary of delineated wetlands by flagging series is presented in Table 1. USACE Wetland Delineation Data Forms are included in Attachment C.

TABLE 1 Summary of Delineated Wetland Resource Areas by Flag Series

Wetland ID	Flag Series	Flag Numbers	Resource Area Type	Classification*	PRA†
1	1A	1 – 43	Freshwater Wetland	PFO1E	No
	1B	1 – 4	Intermittent Stream	R4UB1	No
2	2A	1 – 9	Freshwater Wetland	PSS1E/PEM1F	Yes
	2B	1 - 3	Intermittent Stream	R4UB3	Yes

*Classification of Wetlands and Deepwater Habitats of the United States by Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979.

†Priority Resource Area, as defined by New Hampshire Department of Environmental Services (NHDES) Administrative Rule Env-Wt 103.68.

Freshwater Wetlands

Freshwater (non-tidal) wetlands are defined at RSA 482-A:2, X as "…*an area that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal conditions does support, a prevalence of vegetation typically adapted for life in saturated soil conditions.*"

SERIES 1A

Series 1A defines the limits of a freshwater wetland present to the north, east and south of the site. This wetland is classified as a palustrine, forested, broad-leaved deciduous, seasonally flood/saturated (PFO1E) wetland. Dominant wetland vegetation observed on-site included red maple (*Acer rubrum,* FAC), musclewood (*Carpinus caroliniana,* FAC), American elm (*Ulmus americana,* FACW), winterberry (*Ilex verticillata,* FACW), spicebush (*Lindera benzoin,* FACW), glossy buckthorn (*Frangula alnus,* FAC), cinnamon fern (*Osmundastrum cinnamomeum*, FACW), creeping buttercup (*Ranunculus repens,* FAC), sensitive fern (*Onoclea sensibilis,* FACW), and poison ivy (*Toxicodendron radicans,* FAC). Hydric soils consisted of 8 inches of mucky sandy (10YR 2/1) underlain by sand (2.5YR 5/2) with prominent redox concentrations (7.5 YR 4/6) observed in the matrix. Soils met hydric indicators S1 (Sandy Mucky Mineral) and S7 (Dark Surface). Indicators of hydrology include water-stained leaves, geomorphic position, microtopographic relief, and the FAC-Neutral Test.

Dominant vegetation in adjacent uplands consisted of red oak (*Quercus rubra,* FACU), American beech (*Fagus grandifolia,* FACU), American elm, witch hazel (*Hamamelis virginiana,* FACU), winterberry, glossy buckthorn, sensitive fern, rough goldenrod, and poison ivy. Upland soils consisted of loam with dominant soil matrix color 2.5YR 4/3. Prominent redox concentrations (7.5YR 4/6) were observed within the soil profile starting at nine inches below the surface.

SERIES 2A

Series 2A defines the limits of a freshwater wetland located southwest of Heritage Avenue. The portion of this wetland closest to the roadway is classified as palustrine scrub-shrub, broad-leaved deciduous, seasonally flooded-saturated (PSS1E). The interior of this wetland is dominated by herbaceous vegetation and exhibits a persistent inundation regime, and is classified as palustrine emergent, persistent, semi-permanently flooded (PEM1F). Dominant wetland vegetation observed within Wetland 2A included red maple, speckled alder (*Alnus serrulata,* OBL), common reed (*Phragmites australis*), narrowleaf cattail (*Typha angustifolia,* OBL), highbush blueberry (*Vaccinium corymbosum,* FACW), glossy buckthorn, and rough goldenrod. Soil consisted of six inches of muck (10YR 2/1) underlain by ten inches of mucky loam (10YR 2/1), and met hydric soil indicator A4 (Hydrogen Sulfide). Indicators of hydrology included surface water, high water table (0 inches), hydrogen sulfide odor, geomorphic position, shallow aquitard, and the FAC-neutral test.

Uplands adjacent to the delineated portion of Wetland 2A consisted of the road embankment to Heritage Avenue. Observed upland vegetation predominately consisted of maintained lawn with red maple, glossy buckthorn and multiflora rose also present. The road embankment consisted of compacted fill. Observed vegetation within undisturbed uplands adjacent to Wetland 2A included white oak (*Quercus alba,* FACU), eastern hemlock (*Tsuga canadensis,* FACU), and American beech. Soil consisted of loam with matrix colors 10YR 2/1 in the upper two inches, followed by four inches of 10YR 3/2 underlain by loam with matrix color 7.5YR 3/4 to a depth of ten inches, at which point a restrictive layer was encountered.

Intermittent Stream

Flag Series 1B and 2B define two sections of an unnamed intermittent stream that flow northwesterly from Wetland 1A to Wetland 2A and is conveyed beneath Heritage Avenue via a culvert. The upper reach of this stream (Flag Series 1B) is classified as a riverine, intermittent, unconsolidated cobble-gravel bottom system (R4UB1), while the downstream reach associated with Flag Series 2B is classified as a riverine, intermittent, unconsolidated mud bottom system (R4UB3). Observed vegetation within the stream bed and associated stream banks included narrowleaf cattail, sensitive fern, American burnweed (*Erechtites hieraciifolius,* FACU), and climbing nightshade (*Solanum dulcamara,* FAC).

100-foot Wetland Buffer

The 100-foot buffer to Wetlands 1A and 2A consists primarily of pine-oak forested uplands. Portions of the parking lot and the commercial building associated with the site also fall within the 100-foot buffer zone. Road frontage of Heritage Avenue associated with the site lies entirely within the 100-foot buffer to Wetland 2A. Dominant vegetation observed within the pine-oak forested uplands included white pine, red oak, American elm, American beech, witch hazel, winterberry, and glossy buckthorn.

Priority Resource Areas

In accordance with New Hampshire Department of Environmental Services (NHDES) Administrative Rule Env-Wt 103.66 the site was evaluated for the potential presence of Priority Resource Areas (PRA).

Documented Occurrences of Protected Species or Habitat

A data check with the New Hampshire Department of Environmental Services Ecological Review Section was completed on May 28, 2026 (DCT26-1245). Based on this initial screening, the project is not expected to impact state-listed protected species, exemplary natural communities, or critical habitat.

Bogs

Bogs are a type of peatland, distinguished by stunted evergreen trees and shrubs, peat deposits, poor drainage, and highly acidic conditions. The NHDES Land Resources Management Permit Planning Tool indicated the potential presence of peatlands within Wetland 1A. During the October 2025 delineation, Tighe & Bond documented vegetation and soils present within a portion of Wetland 1A mapped as potential peatland. Soil observed within Wetland 1A displayed a marked gradient along the northern edge of the project site with mineral soil present along the upland boundary that transitioned to organic soil toward the northeast (i.e., toward the wetland interior). Observed organic soil within Wetland 1A consisted of nine inches of sapric material (i.e., muck) underlain by mucky modified soils.

Observed vegetation within portions of Wetland 1A mapped as potential peatland included, but was not limited to, red maple, cinnamon fern, winterberry, highbush blueberry, spice bush, balsam fir (*Abies balsamea,* FAC), sweetgale (*Myrica gale,* OBL), and several unidentified species of sedges (*Carex spp.*). Sphagnum moss was also observed along the forest floor. The potential peatlands were observed to have a red-maple dominated overstory, whereas bogs are typically more open and are dominated by shrubs and herbaceous plants. As such, identified peatlands were more characteristic of a Red Maple – Sphagnum Basin Swamp[2] than a bog. The Red Maple – Sphagnum Basin Swamp ecological community has a State Conservation Status Rank of S4 (Apparently Secure) and is not classified as a PRA.

Designated Prime Wetland and 100-foot Prime Wetland Buffer

Wetland 2A is a municipally-designated Prime Wetland with a duly-established 100-foot Prime Wetland buffer. The Prime Wetland designation was established by the City of Portsmouth pursuant to RSA 482-A:15 and subsequently accepted by the NHDES. The Prime Wetland and 100-foot buffer are regulated as Priority Resource Areas (PRAs) pursuant to Env-Wt 103.68(d) and (e), respectively. This 100-foot buffer is concurrent with the 100-foot buffer regulated by Section 10.1017.22(3) of the City of Portsmouth Zoning Ordinance.

Wetland 2A was designated as a Prime Wetland by the City of Portsmouth due to its ecological significance, including the presence of open water habitat, a diverse wetland complex, and its potential to support rare species and wildlife habitat.[3] Consistent with RSA 482-A:15, Prime Wetlands are significant based on factors such as their size, unspoiled character, fragile condition, ecological functions, and habitat value.

Functions and Values Assessment

Tighe & Bond conducted a functions and values assessment of Wetlands 1A and 2A based on field observations, site photographs, and publicly available GIS data. Assessment criteria were adapted from RSA 482-A and the U.S. Army Corps of Engineers, New England District, Highway Methodology Workbook Supplement – Wetland Functions and Values: A Descriptive Approach (NAEEP-360-1-30a; September 1999). Wetlands 1A and 2A were evaluated for Ecological Integrity, Wetland-Dependent Wildlife Habitat, Fish and Aquatic Life Habitat, Scenic Quality, Educational Potential, Recreation, Flood Storage, Groundwater Recharge, Nutrient Trapping/Retention/Transformation, Sediment Trapping, Shoreline Anchoring, and Noteworthiness. USACE Wetland Function-Value Evaluation Forms are provided in Attachment D.

[2] Sperduto, D.D. and William F. Nichols. 2004. Natural Communities of New Hampshire. NH Natural Heritage Bureau, Concord, NH. Pub. UNH Cooperative Extension, Durham, NH.

[3] City of Portsmouth Prime Wetlands Analysis Report, prepared by West Environmental, Inc. for the Portsmouth Conservation Commission and Planning Department (October 2006). https://files.cityofportsmouth.com/files/planning/prime_rpt.PDF.pdf

Ecological Integrity

Ecological Integrity refers to the overall health and stability of a wetland ecosystem. Limited invasive species were observed within Wetlands 1A and 2A, and both wetlands are connected to surrounding undeveloped upland forest and wetland habitats. Wetland 1A contains Red Maple–Sphagnum Basin Swamp habitat and is part of an approximately 54-acre unfragmented mosaic of wetlands and upland forests. Wetland 1A also maintains a hydrologic connection to Wetland 2A through a culvert beneath Heritage Avenue.

Wetland 2A is designated as a Prime Wetland by the City of Portsmouth due to its unique open water habitat, diverse wetland complex, and potential to support rare species. An approximately 70-acre unfragmented mosaic of wetlands and upland forests surrounds Wetland 2A.

Due to the size, connectivity, and quality of natural habitat associated with these wetlands within an otherwise developed landscape, both wetlands provide Ecological Integrity as a principal function.

Wetland-Dependent Wildlife, Fish, and Aquatic Life Habitat

Wetland-Dependent Wildlife, Fish, and Aquatic Life Habitat considers the suitability of a wetland to provide habitat for wildlife species, fish, and other aquatic organisms. Wetlands 1A and 2A are associated with relatively large areas of undeveloped land and provide a diversity of wetland and upland habitats. The presence of jurisdictional wetlands, combined with their connectivity to surrounding natural areas, indicates that both wetlands provide habitat for wetland-dependent wildlife species. Although an intermittent stream is associated with both wetlands, permanent aquatic habitat was not observed. As such, the wetlands are more likely to support wetland-dependent wildlife than fish or other aquatic organisms. Accordingly, Wetland-Dependent Wildlife Habitat is considered a principal function of both wetlands. Fish and Aquatic Life Habitat is not considered a principal function of either wetland.

Scenic Quality/Recreation/Education Potential

Scenic Quality evaluates a wetland's visual and aesthetic qualities, Recreation considers its ability to support recreational activities, and Educational Potential evaluates its suitability for education and research. Wetlands 1A and 2A are located within a commercially zoned area with limited public access and visibility. As a result, neither wetland is likely to provide significant scenic, recreational, or educational value.

Flood Storage

According to the FEMA FIRMette for the site (Map No. 33015C0270F; effective January 29, 2021), neither Wetland 1A nor Wetland 2A is located within the 100-year floodplain. However, both wetlands likely provide temporary storage of stormwater runoff from Heritage Avenue and the surrounding developed landscape during precipitation events. Given their size and position within the local watershed, both wetlands are likely to provide important flood storage capacity. Accordingly, Flood Storage is considered a principal function of Wetlands 1A and 2A.

Groundwater Recharge

Groundwater Recharge refers to the ability of a wetland to recharge and/or discharge groundwater and its interaction with underlying aquifers. Soils observed within both wetlands consist of organic muck overlying sandy substrates, indicating favorable conditions for groundwater exchange. Wetlands 1A and 2A are located within the Lower Merrimack aquifer transmissivity zone, which is mapped as having a transmissivity of less than 1,000 ft²/day. Based on observed soil conditions and their location within a mapped aquifer, Groundwater Recharge is considered a principal function of both wetlands.

Sediment Trapping

Sediment Trapping refers to a wetland's ability to capture and retain sediment transported in runoff from surrounding uplands. This function is influenced by vegetation density and surface roughness, with more densely vegetated wetlands generally providing greater sediment trapping potential. Wetland 1A is a relatively open forested wetland and is therefore likely to provide limited sediment trapping. In contrast, Wetland 2A is a densely vegetated shrub-scrub wetland and is likely to provide substantial sediment trapping capacity for runoff entering the wetland from adjacent developed areas. Accordingly, Sediment Trapping is considered a principal function of Wetland 2A but not Wetland 1A.

Nutrient Trapping/Retention/Transformation

Nutrient Trapping, Retention, and Transformation refers to a wetland's ability to retain, process, and cycle nutrients, thereby reducing the transport of excess nutrients to downstream waters. Both wetlands contain organic soils overlying sandy substrates. The presence of organic soils indicates that both wetlands have the capacity to retain and transform nutrients. Accordingly, Nutrient Trapping, Retention, and Transformation is considered a function of both wetlands.

Shoreline Anchoring

Shoreline Anchoring refers to a wetland's ability to stabilize shorelines and reduce erosion caused by wave action or flowing water. Both delineated wetlands are palustrine wetlands located in low-energy settings with no significant shoreline erosion processes observed. As a result, Shoreline Anchoring is not considered a suitable function of either wetland.

Noteworthiness

Noteworthiness is a qualitative assessment of whether a wetland possesses one or more outstanding ecological characteristics, such as rare species habitat, unique natural communities, critical wildlife habitat, or other high-value resources.

Wetland 2A has been designated as a Prime Wetland by the City of Portsmouth due to its unique open water habitat, diverse wetland complex, and potential to support rare species. Accordingly, Noteworthiness is considered a principal function of Wetland 2A.

Wetland 1A contains Red Maple–Sphagnum Basin Swamp habitat, which has a State Conservation Status Rank of S4 (Apparently Secure). Based on available information, Noteworthiness is not considered a principal function of Wetland 1A.

Invasive Species

Invasive species observed on-site at the time of the delineation included glossy buckthorn, common reed, climbing nightshade, purple loosestrife (*Lythrum salicaria*; OBL), multiflora rose, and creeping buttercup (*Ranunculus repens*; FAC). These species may provide refuge and food sources for small mammals and birds; however, their abundance in an area disturbed by human activity threatens the integrity of the native community. Invasive plant species generally prefer disturbed habitats and possess high dispersal abilities, enabling them to out-compete native vegetation.

Preventative measures should be taken during the project design and development to limit the potential for introduction or spread of invasive species during the project, such as:

- Limiting the areas of disturbance to avoid unnecessary disturbance of existing colonies of invasive species.
- Not importing materials such as fill, loam, mulch, haybales or gravel from sites where invasive species are known to occur.
- Immediately stabilizing exposed soils where work is complete or has temporarily ceased to prevent spread or further invasion of non-native species.
- Cleaning equipment of soil and plant material prior to mobilization and demobilization to and from the project site to limit spread of invasive species.

Summary

Two palustrine freshwater wetlands and one intermittent stream were delineated within the vicinity of 124 Heritage Avenue. Although portions of Wetland 1A are mapped as potential peatlands in the New Hampshire Wildlife Action Plan, field observations indicate that this wetland is more appropriately characterized as a Red Maple–Sphagnum Basin Swamp and does not meet the criteria for classification as a bog.

Wetland 2A is a municipally designated Prime Wetland with a duly established 100-foot Prime Wetland buffer. The Prime Wetland designation was established by the City of Portsmouth pursuant to RSA 482-A:15 and accepted by NHDES, resulting in both the wetland and its associated buffer being regulated as Priority Resource Areas under Env-Wt 103.68.

Based on field observations and available GIS data, Wetlands 1A and 2A provide several important wetland functions, including Ecological Integrity, Wildlife and Aquatic Life Habitat, Flood Storage, and Groundwater Recharge. Wetland 2A also provides significant Sediment Trapping and Noteworthiness functions due to its dense vegetation, unique open water habitat, diverse wetland complex, and Prime Wetland designation.

The City of Portsmouth regulates a 100-foot buffer to all wetlands pursuant to Chapter 10 of the Portsmouth Zoning Ordinance. In the vicinity of the project site, the wetland buffer consists of pine-oak forest, Heritage Avenue, and portions of the existing parking lot and commercial development associated with 124 Heritage Avenue.

Attachments

A Site Figures

- Figure 1 – Site Location
- Figure 2 – Aerial Site Map
- Figure 3 - FEMA FIRMette

B Photographic Log

C ACOE Wetland Delineation Data Forms

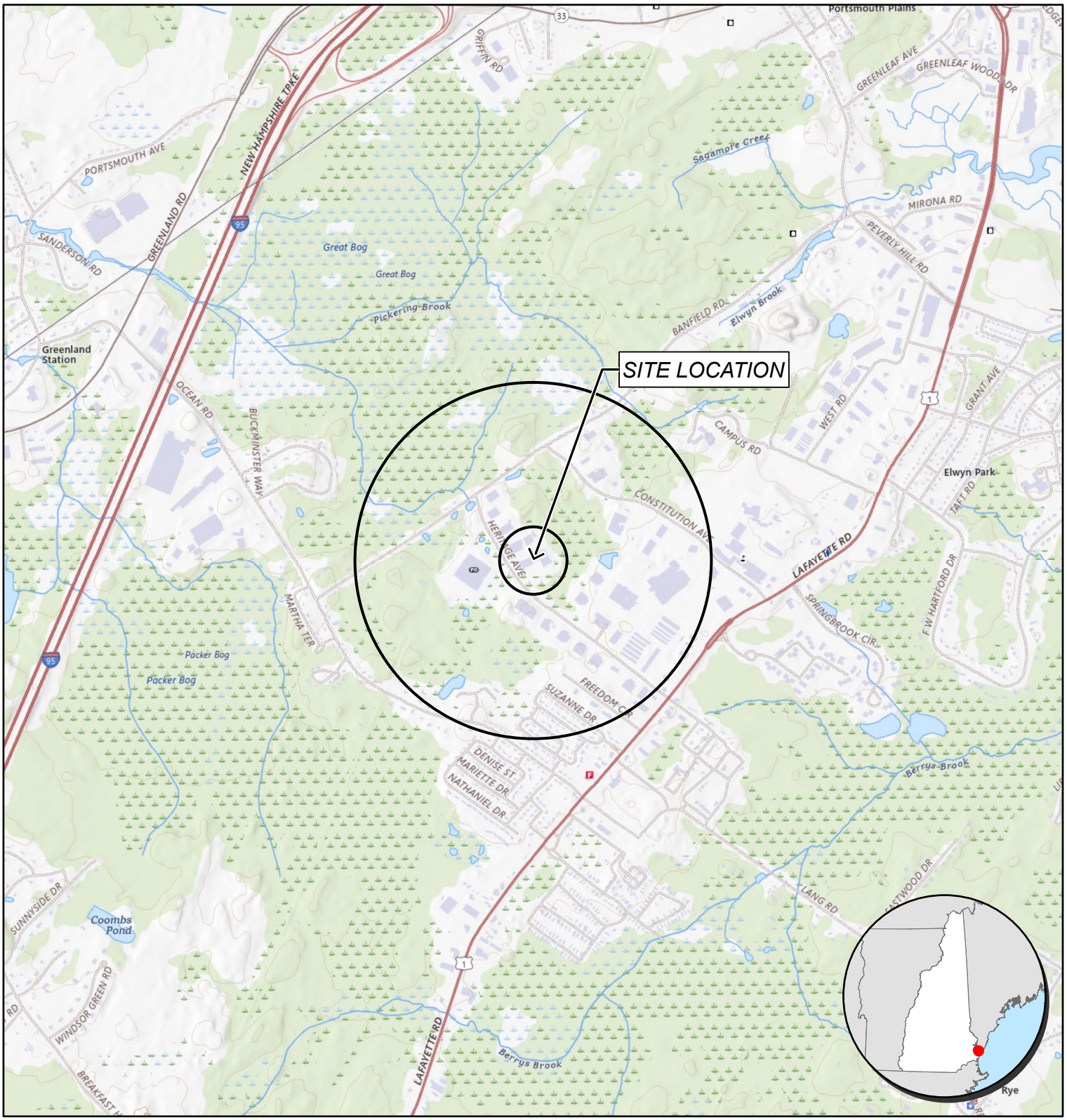
D ACOE Wetland Function-Value Evaluation Forms

Tighe & Bond

Site Figures

FIGURE 1
SITE LOCATION
November 2025

The Kane Company
124 Heritage Avenue
Portsmouth, New Hampshire



Tighe&Bond

Based on USGS The National Map Topo Basemap.
Contour Interval Equals 10 Feet.
Circles indicate 500-foot and half-mile radii.

N

1:24,000
0 1,000 2,000
Feet

G:\GIS\NH\SiteLocus\Portsmouth\KaneCompany_K0076\124HeritageAve_0066\124HeritageAve_0066.aprx\Fig1_Topo_124HeritageAveNH [Exported By: EMainville, 11/7/2025, 10:34 AM]

K-0076

FIGURE 2
AERIAL
December 2025

The Kane Company
124 Heritage Avenue
Portsmouth, New Hampshire



Culvert
Upland Data Plot
Wetland Data Plot
Top of Bank Flag
Freshwater Wetland Flag
Delineated Top of Bank
Delineated Wetland Boundary
100-Foot Buffer Zone
Freshwater Wetland
Approximate Subject Property
Approximate Parcel Boundary

Tighe&Bond

Based on NH GRANIT Color Orthophotography (2021-2022).
Parcel boundaries were provided by NH GRANIT and are approximate.

N
1:1,800
0 75 150
Feet

Figure 3: National Flood Hazard Layer FIRMette

FEMA

70°48'5"W 43°2'19"N



70°47'28"W 43°1'53"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

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) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- 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 *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- 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
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 11/19/2025 at 1:28 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.

Tighe & Bond

Photographic Log

Photographic Log

Client: Kane Company **Job Number:** K-0076-0066

Site: 124 Heritage Ave Portsmouth, New Hampshire

Photograph No.: 1	**Date:** 10/21/2025	**Direction Taken:** Southeast

Description: Typical view of Wetland 1A.



Photograph No.: 2	**Date:** 10/21/2025	**Direction Taken:** Southwest

Description: Typical view of uplands adjacent to Wetland 1A.



Photographic Log

Client: Kane Company **Job Number:** K-0076-0066

Site: 124 Heritage Ave Portsmouth, New Hampshire

Photograph No.: 3	**Date:** 10/21/2025	**Direction Taken:** Northeast
Description: Typical view of state-mapped peatlands associated with Wetland 1A. This community was identified as a Red Maple – Sphagnum Basin Swamp .		



Photograph No.: 4	**Date:** 10/21/2025	**Direction Taken:** North
Description: Alternate view of state-mapped peatlands associated with Wetland 1A. This community was identified as a Red Maple – Sphagnum Basin Swamp .		



Photographic Log

Client: Kane Company **Job Number:** K-0076-0066

Site: 124 Heritage Ave Portsmouth, New Hampshire

Photograph No.: 5	**Date:** 10/21/2025	**Direction Taken:** Northwest

Description: Typical view of the 100-foot buffer to Wetland 1A.



Photograph No.: 6	**Date:** 10/21/2025	**Direction Taken:** Southeast

Description: Typical view of the unnamed intermittent stream defined by Flag Series 1B.



Photographic Log

Client: Kane Company **Job Number:** K-0076-0066

Site: 124 Heritage Ave Portsmouth, New Hampshire

Photograph No.: 7	**Date:** 10/21/2025	**Direction Taken:** Northwest
Description: Typical view of Wetland 2A.		



Photograph No.: 8	**Date:** 09/12/2025	**Direction Taken:** Northwest
Description: Typical view of uplands adjacent to Wetland 2A.		



Photographic Log

Client: Kane Company **Job Number:** K-0076-0066

Site: 124 Heritage Ave Portsmouth, New Hampshire

Photograph No.: 9	**Date:** 10/21/2025	**Direction Taken:** Southwest
Description: Typical view of the unnamed intermittent stream defined by Flag Series 1B.		



Photograph No.: 10	**Date:** 10/24/2025	**Direction Taken:** Southwest
Description: Typical view of undisturbed uplands adjacent to Wetland 2A.		



Tighe & Bond

ACOE Wetland Delineation Data Forms

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-21-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 1A-5 Wet

Investigator(s): Lucas Fromm, Stefanie Tetreault Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Swamp Local relief (concave, convex, none): none Slope %: 5

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03589 Long: -70.79553 Datum: WGS84

Soil Map Unit Name: Squamscott fine sandy loam, 0 to 5 percent slopes NWI classification: PF04/1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	If yes, optional Wetland Site ID: Wetland 1A
Wetland Hydrology Present?	Yes X	No ____	

Remarks: (Explain alternative procedures here or in a separate report.)
The site received 0.60" of rain within the 24 hours preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ Marl Deposits (B15)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living Roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage Patterns (B10)
- ____ Moss Trim Lines (B16)
- ____ Dry-Season Water Table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ____ Shallow Aquitard (D3)
- ____ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1A-5 Wet

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	50	Yes	FACW
2. *Acer saccharinum*	5	No	FACW
3. *Quercus rubra*	50	Yes	FACU
4.			
5.			
6.			
7.			
	105	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Lindera benzoin*	40	Yes	FACW
2. *Ilex verticillata*	15	No	FACW
3. *Frangula alnus*	30	Yes	FAC
4. *Cornus amomum*	15	No	FACW
5.			
6.			
7.			
	100	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Ranunculus repens*	25	Yes	FAC
2. *Athyrium angustum*	20	No	FAC
3. *Onoclea sensibilis*	50	Yes	FACW
4. *Solidago rugosa*	10	No	FAC
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	105	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1. *Toxicodendron radicans*	30	Yes	
2.			
3.			
4.			
	30	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	175	x 2 =	350
FAC species	85	x 3 =	255
FACU species	50	x 4 =	200
UPL species	0	x 5 =	0
Column Totals:	310 (A)		805 (B)

Prevalence Index = B/A = 2.60

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1A-5 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-12	10YR 2/1	100					Loamy/Clayey	
12-18	10YR 5/1	90	7.5YR 4/6	5	D		Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- X Depleted Below Dark Surface (A11)
- X Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-21-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 1A-5 Upl

Investigator(s): Lucas Fromm, Stefnie Tetreault Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): convex Slope %: 5

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03577366 Long: -70.79559404 Datum: WGS84

Soil Map Unit Name: Hoosic gravelly fine sandy loam, 3 to 8 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID: ____

Remarks: (Explain alternative procedures here or in a separate report.)
The site received 0.60" of rain within the 24 hours preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1A-5 Upl

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus strobus*	10	No	FACU
2. *Quercus rubra*	60	Yes	FACU
3. *Ulmus americana*	20	Yes	FACW
4.			
5.			
6.			
7.			
	90	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Viburnum dentatum*	10	No	FAC
2. *Ilex verticillata*	25	Yes	FACW
3. *Frangula alnus*	15	Yes	FAC
4. *Pinus strobus*	10	No	FACU
5.			
6.			
7.			
	60	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Onoclea sensibilis*	60	Yes	FACW
2. *Solidago rugosa*	20	Yes	FAC
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	80	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1. *Toxicodendron radicans*	60	Yes	FAC
2. *Vitis labrusca*	10	No	FACU
3.			
4.			
	70	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 85.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	105	x 2 =	210
FAC species	105	x 3 =	315
FACU species	90	x 4 =	360
UPL species	0	x 5 =	0
Column Totals:	300 (A)		885 (B)

Prevalence Index = B/A = 2.95

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1A-5 Upl

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Redox Features Type[1]	Redox Features Loc[2]	Texture	Remarks
0-13	10YR 3/3	100					Loamy/Clayey	
13-26	10YR 5/1	90	7.5R 5/8	10	C	M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-21-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 1A-29 Wet

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope %: 10

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03467 Long: -70.79523 Datum: WGS84

Soil Map Unit Name: Squamscott fine sandy loam, 0 to 5 percent slopes NWI classification: PFO4/1C

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	If yes, optional Wetland Site ID: Wetland 1A
Wetland Hydrology Present?	Yes X	No ____	

Remarks: (Explain alternative procedures here or in a separate report.)
Wetland Data Plot for Wetland 1A. The site received 0.60" of rain within the 24 hour period preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ____ Surface Water (A1)
- ____ High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- X Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ Marl Deposits (B15)
- ____ Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living Roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage Patterns (B10)
- ____ Moss Trim Lines (B16)
- ____ Dry-Season Water Table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ____ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1A-29 Wet

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	25	Yes	FAC
2. *Betula alleghaniensis*	15	No	FAC
3. *Pinus strobus*	5	No	FACU
4. *Carpinus caroliniana*	25	Yes	FAC
5. *Ulmus americana*	5	No	FACW
6. *Fraxinus pennsylvanica*	5	No	FACW
7. *Tsuga canadensis*	5	No	FACU
	85	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Ilex verticillata*	25	Yes	FACW
2. *Vaccinium corymbosum*	5	No	FACW
3. *Lindera benzoin*	10	Yes	FACW
4.			
5.			
6.			
7.			
	40	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Osmundastrum cinnamomeum*	20	Yes	FACW
2. *Dryopteris carthusiana*	2	No	FACW
3. *Lindera benzoin*	5	No	FACW
4. *Solidago rugosa*	5	No	FAC
5. *Onoclea sensibilis*	2	No	FACW
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	34	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	79	x 2 =	158
FAC species	70	x 3 =	210
FACU species	10	x 4 =	40
UPL species	0	x 5 =	0
Column Totals:	159 (A)		408 (B)

Prevalence Index = B/A = 2.57

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point 1A-29 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	10YR 2/1	100					Mucky Sand	
8-16	2.5YR 2.5/2	65	7.5YR 4/6	5	C	M	Sandy	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- X Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- X Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Mucky Soils met Pete Fletcher Soil Tests 1, 4, and 5

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-21-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 1A-29 Upl

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Hillside Local relief (concave, convex, none): convex Slope %: 10

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03467 Long: -70.79526 Datum: WGS84

Soil Map Unit Name: Hoosic gravelly fine sandy loam, 3 to 8 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ____ No X (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
Upland Data Plot for Wetland 1A. The site received 0.60" of rain within the 24 hours preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 1A-29 Upl

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Pinus strobus*	20	No	FACU
2. *Quercus rubra*	50	Yes	FACU
3. *Fagus grandifolia*	25	Yes	FACU
4. *Populus grandidentata*	5	No	FACU
5. *Betula nigra*	5	No	FACW
6. *Acer rubrum*	2	No	FAC
7. *Tsuga canadensis*	5	No	FACU
	112	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Fagus grandifolia*	35	Yes	FACU
2. *Hamamelis virginiana*	20	Yes	FACU
3. *Vaccinium corymbosum*	5	No	FACW
4. *Pinus strobus*	2	No	FACU
5.			
6.			
7.			
	62	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Quercus rubra*	1	No	FACU
2. *Pinus strobus*	1	No	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	2	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	10	x 2 =	20
FAC species	2	x 3 =	6
FACU species	164	x 4 =	656
UPL species	0	x 5 =	0
Column Totals:	176 (A)		682 (B)

Prevalence Index = B/A = 3.88

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 1A-29 Upl

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-1	10YR 2/1	100					Loamy/Clayey	
1-9	2.5Y 4/3	100					Loamy/Clayey	
9-24	2.5Y 4/3	95	7.5YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-21-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 2A-2 Upl

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Hllside Local relief (concave, convex, none): Convex Slope %: 15

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.0340 Long: -70.79784 Datum: WGS84

Soil Map Unit Name: Chatfield-Hollis-Canton complex, 0 to 8 percent slopes, rocky NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**
Hydric Soil Present?	Yes ____	No X	**within a Wetland?** **Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)
The site received 0.60" of rain within the 24 hours preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

Second upland data plot for Wetland 2A. As wetland flagging was along a road embankment, this plot was conducted to document more natural upland conditions adjacent to Wetland 2A.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- X Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 2A-2 Upl

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	10	No	FAC
2. *Quercus alba*	40	Yes	FACU
3. *Tsuga canadensis*	30	Yes	FACU
4. *Quercus rubra*	10	No	FACU
5. *Fagus grandifolia*	5	No	FACU
6.			
7.			
	95	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Fagus grandifolia*	5	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
	5	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Quercus rubra*	1	No	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	1	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	10	x 3 =	30
FACU species	91	x 4 =	364
UPL species	0	x 5 =	0
Column Totals:	101 (A)		394 (B)

Prevalence Index = B/A = 3.90

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point 2A-2 Upl

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-2	10YR 2/1	100					Loamy/Clayey	
2-6	10YR 3/2	100					Loamy/Clayey	
6-10	7.5R 3/4	100					Loamy/Clayey	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Soft Resistance

Depth (inches): 10

Hydric Soil Present? **Yes** ___ **No** X

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-24-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 2A-8 Wet

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Stream Local relief (concave, convex, none): Concave Slope %: 0

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03450 Long: -70.79775 Datum: WGS84

Soil Map Unit Name: Maybid Silt Loam NWI classification: PFO1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	If yes, optional Wetland Site ID: Wetland 2A
Wetland Hydrology Present?	Yes X	No ____	

Remarks: (Explain alternative procedures here or in a separate report.)
Wetland Data Plot for Wetland 2A.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- X Surface Water (A1)
- X High Water Table (A2)
- ____ Saturation (A3)
- ____ Water Marks (B1)
- ____ Sediment Deposits (B2)
- ____ Drift Deposits (B3)
- ____ Algal Mat or Crust (B4)
- ____ Iron Deposits (B5)
- ____ Inundation Visible on Aerial Imagery (B7)
- ____ Sparsely Vegetated Concave Surface (B8)
- ____ Water-Stained Leaves (B9)
- ____ Aquatic Fauna (B13)
- ____ Marl Deposits (B15)
- X Hydrogen Sulfide Odor (C1)
- ____ Oxidized Rhizospheres on Living Roots (C3)
- ____ Presence of Reduced Iron (C4)
- ____ Recent Iron Reduction in Tilled Soils (C6)
- ____ Thin Muck Surface (C7)
- ____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ____ Surface Soil Cracks (B6)
- ____ Drainage Patterns (B10)
- ____ Moss Trim Lines (B16)
- ____ Dry-Season Water Table (C2)
- ____ Crayfish Burrows (C8)
- ____ Saturation Visible on Aerial Imagery (C9)
- ____ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- X Shallow Aquitard (D3)
- ____ Microtopographic Relief (D4)
- X FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes X	No ____	Depth (inches): 0
Water Table Present?	Yes X	No ____	Depth (inches): 0
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 2A-8 Wet

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	15	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	15	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Alnus serrulata*	45	Yes	OBL
2. *Viburnum dentatum*	5	No	FAC
3. *Rosa multiflora*	15	No	FACU
4. *Ilex verticillata*	10	No	FACW
5. *Spiraea tomentosa*	5	No	FACW
6.			
7.			
	80	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Phragmites australis*	25	Yes	FACW
2. *Lythrum salicaria*	5	No	OBL
3. *Typha angustifolia*	35	Yes	OBL
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	65	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	85	x 1 =	85
FACW species	40	x 2 =	80
FAC species	20	x 3 =	60
FACU species	15	x 4 =	60
UPL species	0	x 5 =	0
Column Totals:	160 (A)		285 (B)

Prevalence Index = B/A = 1.78

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2A-8 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					Muck	
6-16	10YR 2/1	100					Mucky Loam/Clay	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- X Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L**)
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Soft Resistance

Depth (inches): 16

Hydric Soil Present? **Yes** X **No** ___

Remarks:

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10-24-2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 2A-8 Upl

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Road Embankment Local relief (concave, convex, none): Convex Slope %: 30

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03450 Long: -70.79773 Datum: WGS84

Soil Map Unit Name: Maybid silt loam NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation X, Soil X, or Hydrology X significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** ____ **No** X
Hydric Soil Present?	Yes ____	No ____	If yes, optional Wetland Site ID: ____
Wetland Hydrology Present?	Yes ____	No ____	

Remarks: (Explain alternative procedures here or in a separate report.)
Sample plot consisted of the road embankment to Heritage Ave. As the embankment consisted of placed fill and maintained low, natural conditions could not be accurately assessed at this location. A second paired set of data plots was conducted to the south of Wetland 2A to document upland soils and vegetation under natural conditions.

According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No X	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 2A-8 Upl

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	5	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	5	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Frangula alnus*	10	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	10	=Total Cover	
Herb Stratum (Plot size: 10)			
1. *Rosa multiflora*	5	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5	=Total Cover	
Woody Vine Stratum (Plot size: 5)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 66.7% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	15	x 3 =	45
FACU species	5	x 4 =	20
UPL species	0	x 5 =	0
Column Totals:	20 (A)		65 (B)

Prevalence Index = B/A = 3.25

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)
Upland vegetation at this location predominatley consisted of unidentifed maintained grass (90%)

SOIL

Sampling Point 2A-8 Upl

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Mesic Spodic (A17) **(MLRA 144A, 145, 149B)**
- ___ Iron Monosulfide (A18)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)
- ___ Red Parent Material (F21) **(MLRA 145)**

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Red Parent Material (F21) **(outside MLRA 145)**
- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ____ **No** ____

Remarks:

Soils consisted of compacted fill and could not be successfully sampled at this location.

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 9/30/2027
Requirement Control Symbol EXEMPT:
(Authority: AR 335-15, paragraph 5-2a)

Project/Site: 124 Heritage Ave City/County: Portsmouth/Rockingham Sampling Date: 10/21/2025

Applicant/Owner: The Kane Company State: NH Sampling Point: 2A-2 Wet

Investigator(s): Lucas Fromm Section, Township, Range: N/A

Landform (hillside, terrace, etc.): Swamp Local relief (concave, convex, none): Concave Slope %: 2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.03404 Long: -70.79790 Datum: WQGS64

Soil Map Unit Name: Maybid silt loam NWI classification: PFO1E

Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes ____ No X

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No ____	**Is the Sampled Area within a Wetland?** **Yes** X **No** ____
Hydric Soil Present?	Yes X	No ____	If yes, optional Wetland Site ID: Wetland 2A
Wetland Hydrology Present?	Yes X	No ____	

Remarks: (Explain alternative procedures here or in a separate report.)
The site received 0.60" of rain in the 24 hours preceding the delineation.
According to the U.S. Drought Monitor, Rockingham County was experiencing a moderate-severe drough at the time of the delineation.

Alternate wetland sample plot for Wetland 2A as delineated line is located adjacent to filled road embankment, which limited characterization potential of upland community.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- X Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- X Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No X	Depth (inches): ____
Water Table Present?	Yes ____	No X	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes X	No ____	Depth (inches): 0

Wetland Hydrology Present? **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

Sampling Point: 2A-2 Wet

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Quercus rubra*	10	Yes	FACU
2. *Pinus strobus*	10	Yes	FACU
3. *Acer rubrum*	15	Yes	FAC
4.			
5.			
6.			
7.			
	35	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Ilex verticillata*	60	Yes	FACW
2. *Frangula alnus*	20	No	FAC
3. *Vaccinium corymbosum*	25	Yes	FACW
4.			
5.			
6.			
7.			
	105	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Frangula alnus*	15	Yes	FAC
2. *Pinus strobus*	2	No	FACU
3. *Vaccinium angustifolium*	2	No	FACU
4. *Rosa multiflora*	1	No	FACU
5. *Solidago rugosa*	5	Yes	FAC
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
		=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	85	x 2 =	170
FAC species	55	x 3 =	165
FACU species	25	x 4 =	100
UPL species	0	x 5 =	0
Column Totals:	165 (A)		435 (B)

Prevalence Index = B/A = 2.64

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** X **No** ___

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point: 2A-2 Wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 2/1	100					Mucky Sand	
12-16	10YR 3/1	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

[2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

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- ___ Very Shallow Dark Surface (F22)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** X **No** ___

Remarks:

Soil met Pete Fletcher soil tests 1, 3, 4, and 5 for Mucky Modified Soil

Tighe & Bond

ACOE Wetland Function-Value Evaluation Forms

Wetland Function-Value Evaluation Form

Total area of wetland 24.67 acres Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Industrial/Residential Distance to nearest roadway or other development Abutting

Dominant wetland systems present PFO 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? Upper

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Wetland 1A

Latitude 43.03404 Longitude -70.79790

Prepared by: LTF Date 6/11/2026

Wetland Impact:
Type N/A Area N/A

Evaluation based on:
Office ____ 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	3,7,10,15	Y	
Floodflow Alteration	Y	1,2, 5, 6, 7, 8, 9, 15	Y	
Fish and Shellfish Habitat	N		N	No permanent waterbodies observed within or adjacent to Wetland 1A.
Sediment/Toxicant Retention	Y	2,4,7,8,9	Y	
Nutrient Removal	Y	1,4,5,7,8,9,10,11	Y	
Production Export	Y	1,2,4,8		
Sediment/Shoreline Stabilization	N	2,3		
Wildlife Habitat	Y	3,6,7,8,11,14,15,19	Y	
Recreation	N	12	N	
Educational/Scientific Value	N	2,4	N	
Uniqueness/Heritage	Y	1,5,10,15	N	Wetland 1A is classified as Red Maple - Sphagnum Basin Swamp - State Habitat Rank (S4).
Visual Quality/Aesthetics	N	4,7,11	N	
ES Endangered Species Habitat	N		N	
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland 18.78 acres Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Industrial/Residential /Undeveloped Forests Distance to nearest roadway or other development Abutting

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Wetland 2A

Latitude 43.03450 Longitude -70.79775

Prepared by: LTF Date 6/11/2026

Wetland Impact:
Type N/A Area N/A

Evaluation based on:
Office ____ 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	3,7,10,15	Y	
Floodflow Alteration	Y	1,2,5,6,7,8,9,17,18	Y	
Fish and Shellfish Habitat	N		N	No permanent waterbodies observed within or adjacent to Wetland 1A.
Sediment/Toxicant Retention	Y	2,3,4,7,8,9	Y	
Nutrient Removal	Y	1,2,3,4,5,6,7,8,9,10,11,12,13,14	Y	
Production Export	Y	1,2,4,7,8,10,12		
Sediment/Shoreline Stabilization	N	2,3		
Wildlife Habitat	Y	3,5,6,7,8,11,14,15,19,21	Y	
Recreation	N	1,12	N	
Educational/Scientific Value	N	1,2	N	
Uniqueness/Heritage	Y	4,5,10,13,15, 27	Y	Wetland 2A is designated as a Prime Wetland by the City of Portsmouth
Visual Quality/Aesthetics	N	4,7,11	N	
ES Endangered Species Habitat	Y	1	N	
Other				

Notes:

* Refer to backup list of numbered considerations.

City of Portsmouth, New Hampshire

Wetland Conditional Use Permit Application Checklist

This wetland conditional use permit application checklist is a tool designed to assist the applicant in the planning process and for preparing the application for Conservation Commission and Planning Board review. The checklist is required to be uploaded as part of your wetland conditional use permit application to ensure a full and complete application is submitted to the Planning and Sustainability Department and to the online portal. A pre-application conference with a member of the Planning and Sustainability Department is encouraged as additional project information may be required depending on the size and scope of the project. The applicant is cautioned that this checklist is only a guide and is not intended to be a complete list of all wetland conditional use permit requirements. Please refer to Article 10 of the City of Portsmouth Zoning Ordinance for full details.

Applicant Responsibilities: Applicable fees are due upon application submittal to the Planning Board (no fees are required for Conservation Commission submission). The application will be reviewed by Planning and Sustainability Department staff to determine completeness. Incomplete applications which do not provide required information for the evaluation of the proposed site development shall not be provided review by the Conservation Commission or Planning Board.

Name of Applicant: _____ Date Submitted: 6/24/2026

Application # (in City's online permitting): _____

Site Address: E194 Utility Right-of-Way, Schiller Substation Map: 214 Lot: 3

☑	Required Items for Submittal	Item Location (e.g. Page or Plan Sheet/Note #)
✔	Complete application form submitted via the City's web-based permitting program	Enclosed electronically
✔	All application documents, plans, supporting documentation, this checklist and other materials uploaded to the application form in OpenGov in digital **Portable Document Format (PDF)**. One hard copy of all plans and materials shall be submitted to the Planning and Sustainability Department by the published deadline.	See included Conditional Use Permit Application Package

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Basic property and wetland resource information. **(10.1017.21)**	See included Conditional Use Permit Package
✔	Additional information required for projects proposing greater than 250 square feet of permanent or temporary impacts. **(10.1017.22)**	See included Conditional Use Permit Application Package
✔	Demonstrate impacts as they relate to the criteria for approval set forth in Section 10.1017.50 (or Section 10.1017.60 in the case of utility installation in a right-of-way). **(10.1017.23)**	See included Conditional Use Permit Package
✔	Balance impervious surface impacts with removal and/or wetland buffer enhancement plan. **(10.1017.24)**	See included Conditional Use Permit Application Package

☑	Required Items for Submittal	Item Location (e.g. Page/line or Plan Sheet/Note #)
✔	Wetland buffer enhancement plan. **(10.1017.25)**	See included Conditional Use Permit Package
☐	Living shoreline strategy provided for tidal wetland and/or tidal buffer impacts. **(10.1017.26)**	Not Applicable
✔	Stormwater management must be in accordance with Best Management Practices including but not limited to: *1. New Hampshire Stormwater Manual, NHDES, current version.* *2. Best Management Practices to Control Non-point Source Pollution: A Guide for Citizens and City Officials, NHDES, January 2004.* **(10.1018.10)**	See included Conditional Use Permit Application Package
☐	Vegetated Buffer Strip slope of greater than or equal to 10%. **(10.1018.22)**	Not Applicable
✔	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. **(10.1018.23/10.1018.24/10.1018.25)**	See included Conditional Use Permit Application Package
☐	All new pavement within a wetland buffer shall be porous pavement. **(10.1018.31)**	Not Applicable
☐	An application that proposes porous pavement in a wetland buffer shall include a pavement maintenance plan. **(10.1018.32)**	Not Applicable
☐	Permanent wetland boundary markers shall be shown on the plan submitted with an application for a conditional use permit and shall be installed during project construction. **(10.1018.40)**	To be discussed with the conservation commission
☑	**Requested Items for Submittal**	**Item Location (e.g. Page or Plan Sheet/Note #)**
✔	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	See included Conditional Use Permit Application Package
☐	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	NHDES Wetland Permit By Notification will be summited for this Project

Applicant's Signature: _____ **Date:** 6/24/2026

Integrated planting plan for 224 cate st

Owners: Mark Esposito PhD

Rezma Shrestha PhD

2026.08.02 proposal

Proposal Summary:

This proposed plan seeks to improve the vegetation conditions at 224 Cate st and continue to improve on the prior planting plan implemented under the previous owner. The plan consists of regrading ~250 square feet of lawn that is >80 feet from the wetland on the northwestern side of the house that requires a WCUP.

As a supplemental piece of information for information purposes only, we are showing our plans for aerating and improving the soil quality throughout the property to promote deep root formation, and a planting plan that improves the aesthetic and environmental conditions of the property.

Background:

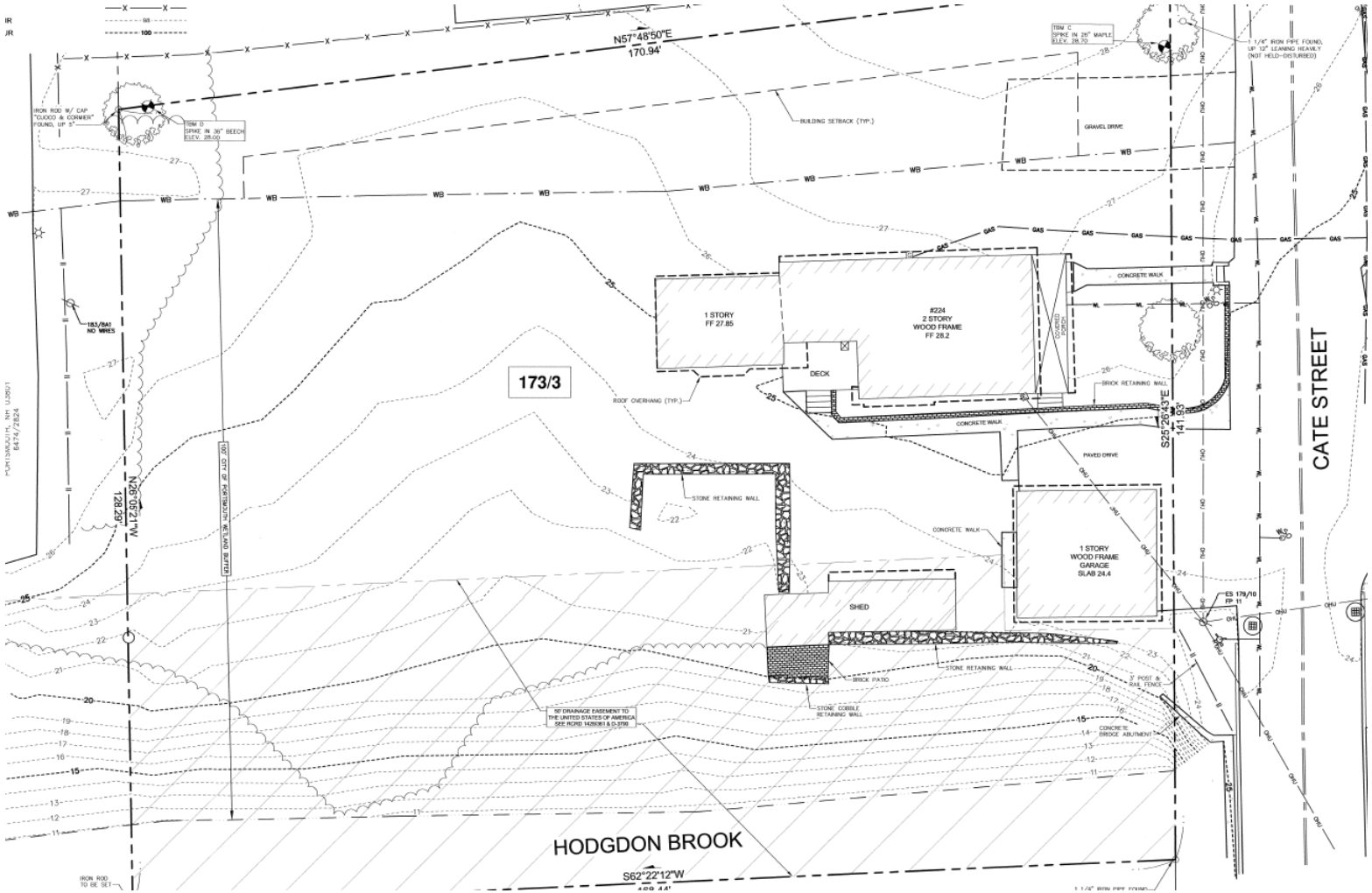
The prior owners used heavy construction to rough in a development area for a proposed new build that would be situated in the rear of the property. In doing so, they:

1. Heavily compacted the soil and left deep tires ruts
2. Deposited several areas of hard construction fill in the vegetated buffer strip
3. Left a grade that slopes upward on the northeastern side of the property causing water to run into the foundation.
4. Planted a row of arborvitaes that were not properly watered and died before we bought the property.
5. The row of trees on the western edge of the property was not properly maintained and the subsequent maple saplings have grown in too densely for what the soil can support, hence are in poor health and require thinning/pruning.

Proposed plan:

The following pages propose a plan to correct each of these issues and improve the environmental and wetland boundary conditions at 224 Cate St. This plan draws on the owner's long experience in landscaping and wetland biology.

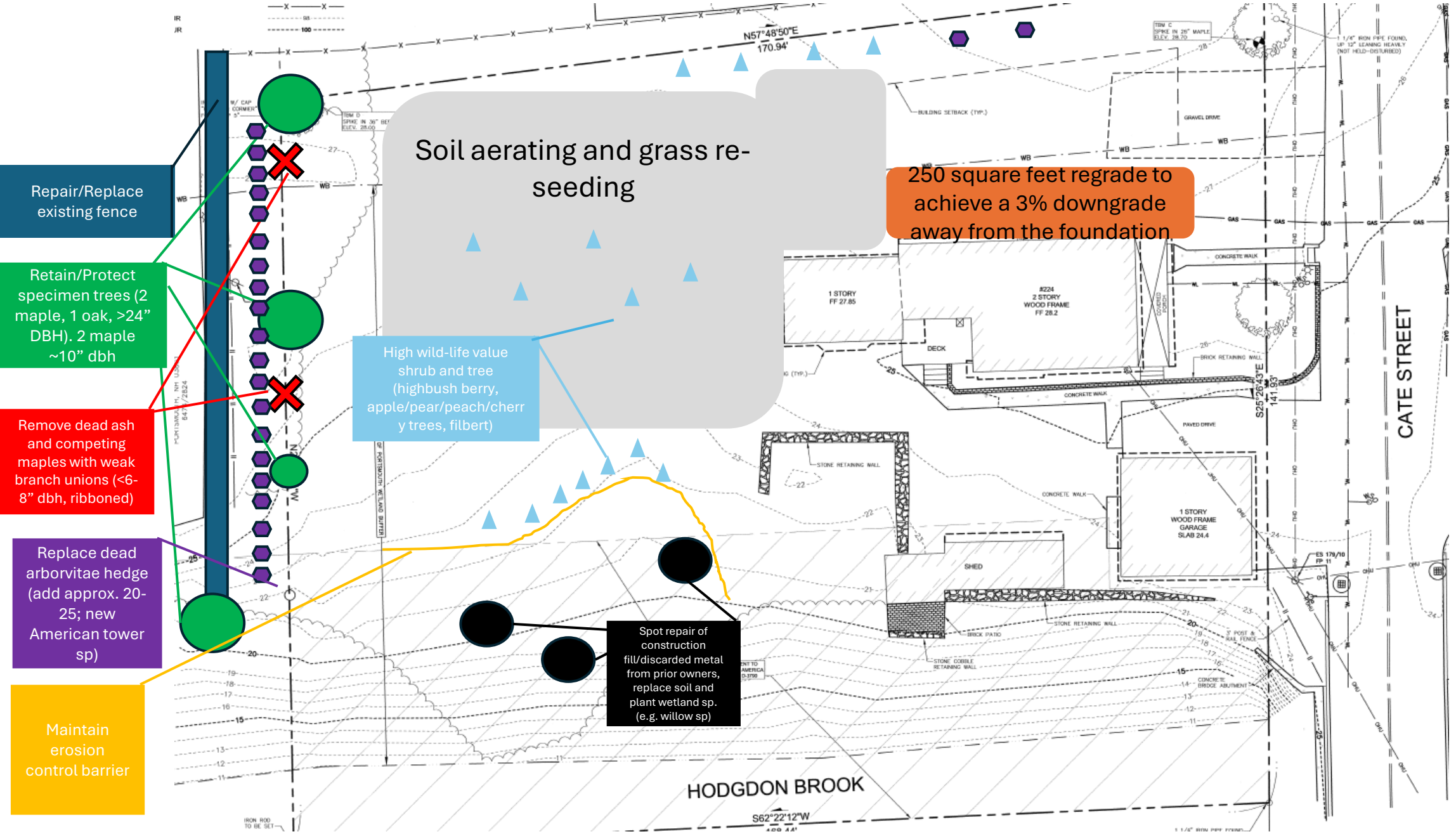
Survey, 224 Cate St



Previously approved wetland conditional use permit – 2025.05.14



Integrated planting plan proposal



Initial photos on closing





Area to be regraded into a 3% down-grade away from foundation

Supplemental restoration work (ongoing)

Highbush blueberry plantings with erosion barrier



Highbush blueberry plantings and fruit trees



Mid-summer, southwest boundary



Proposed southwest boundary vision



City of Portsmouth, New Hampshire

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☐	Vegetated Buffer Strip slope of greater than or equal to 10%. **(10.1018.22)**	Not Applicable
✔	Removal or cutting of vegetation, use of fertilizers, pesticides and herbicides. **(10.1018.23/10.1018.24/10.1018.25)**	See included Conditional Use Permit Application Package
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☑	**Requested Items for Submittal**	**Item Location (e.g. Page or Plan Sheet/Note #)**
✔	A narrative/letter addressed to the Conservation Commission Chair (if recommended to Planning Board then an additional narrative addressed to the Planning Board Chair at that time) describing the project and any proposed wetland and/or wetland buffer impacts. Please visit the WCUP instruction page for further application instructions.	See included Conditional Use Permit Application Package
☐	If New Hampshire Department of Environmental Services (NHDES) Standard Dredge and Fill Permit is required for this work, please provide this permit application at the same time as your submission for a Wetland Conditional Use Permit.	NHDES Wetland Permit By Notification will be summited for this Project

Applicant's Signature: Mark Epsicito **Date:** 6/24/2026

cpmanagement

Property Management
Trusted. Seasoned. Leaders.

July 23, 2026

SENT VIA EMAIL AND US MAIL

Kim and Ania Rogers
Tidewatch Condominium Association
579 Sagamore Ave, Unit 8
Portsmouth, NH 03801
krogers@glrogers.com

Re: Tidewatch Condominium Association – Wetlands Conditional Use Permit and Wetlands Restoration

Dear Kim and Ania,

On behalf of the Tidewatch Condominium Association Board of Directors, this letter confirms that the Board has accepted your proposal, as outlined in your correspondence dated July 21, 2026, regarding the wetlands disturbance adjacent to Tidewatch Unit 8.

The Association hereby authorizes you to act on its behalf for the limited purpose of addressing this matter with the City of Portsmouth, including:

- Preparing and filing the Wetlands Conditional Use Permit application;
- Paying the applicable permit application fee;
- Coordinating and submitting the proposed remediation and planting plan for Association review prior to submission to the City;
- Representing the Association before the applicable City boards and commissions throughout the permitting process; and
- Coordinating and bearing the costs associated with the remediation work, including the installation of the trees, shrubs, and any other restoration measures ultimately required by the City of Portsmouth as part of the permit approval process.

The Board understands that time is of the essence and appreciates your willingness to promptly file the Wetlands Conditional Use Permit application in order to avoid potential municipal penalties. We also acknowledge your representation following the July 21, 2026, site meeting with City officials that the City has indicated penalties may be waived provided the permit application is filed promptly.

The Association requests that you keep CPManagement and the Board informed throughout the permitting process and provide copies of all permit filings, correspondence, proposed planting plans, hearing notices, City comments, and final approvals as they become available.

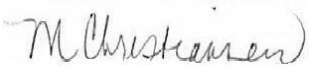
It is further understood that, consistent with the commitments outlined in your July 21, 2026 correspondence, you will coordinate and bear the costs associated with all remediation required by the City of Portsmouth in connection with this matter. Should the City require any additional remediation, restoration, plantings, inspections, engineering, permitting, or related work arising from the wetlands disturbance, it is understood that such work will likewise be coordinated and funded by you as part of your commitment to resolve this matter on behalf of the Association.

This authorization is expressly conditioned upon your fulfillment of the commitments outlined in your July 21, 2026 correspondence, including the timely filing of the Wetlands Conditional Use Permit application, representation of the Association throughout the permitting process, payment of the application fee, and completion of all City-required remediation and restoration at no cost to the Association.

Nothing contained in this letter shall be construed as a waiver of any rights or remedies the Association may possess should the above-described work not be completed as represented, should additional damages be identified, or should any additional issues arise. Rather, this letter serves to memorialize the Board's acceptance of your proposal so that the permitting and restoration process may proceed without delay.

The Board appreciates your cooperation and your willingness to work toward an expeditious resolution of this matter. We look forward to a successful completion of the permitting process and restoration of the affected area.

Very truly yours,



Marisa Christiansen, Property Manager
Authorized Agent for Tidewatch Condominium Association

Cc: Tidewatch Board of Directors

Lee Tree Company
16 Dock Rd
York, Maine 03909
leetreecompany@gmail.com
Tel: 207-363-2306

July 24, 2026

City of Portsmouth Planning Department
Attn: Wetlands Coordinator
1 Junkins Avenue
Portsmouth, N.H. 03801

Re: After-the-Fact Land Use Application – Proposed Replanting Plan
Tide Watch Condominium Association (behind Unit 8)
MBL 0223-0030-0000

Dear Portsmouth Planning Department / Wetlands Coordinator,

I am writing on behalf of Lee Tree Company regarding the recent tree removal and my proposed replanting plan for the area in question at Tidewatch Condominium Association (behind Unit 8), MBL 0223-0030-0000. This letter, and the accompanying replanting plan, are submitted in connection with an after-the-fact land use application. The area affected is approximately 150 square feet, located within the 25-foot vegetated buffer strip in this wooded area, where American Beech trees were present but diseased and severely declining from Beech Leaf Disease.

I am more than happy to restore the area with a practical replanting plan consisting of native trees and shrubs to fill the area around the removed tree. This will help stabilize the soil and restore the buffer's natural functions.

In the attached photo of the site, I have marked the best possible planting locations for the three trees with stakes. The understory shrubs would be planted inside the area defined by those three stakes.

Ania and Ki Rogers, the Property Owner Representatives for this unit, have received approval from the Tidewatch Condominium Association to proceed with replanting the area in the manner described in this proposal.

Thank you for your time and consideration.

Sincerely,

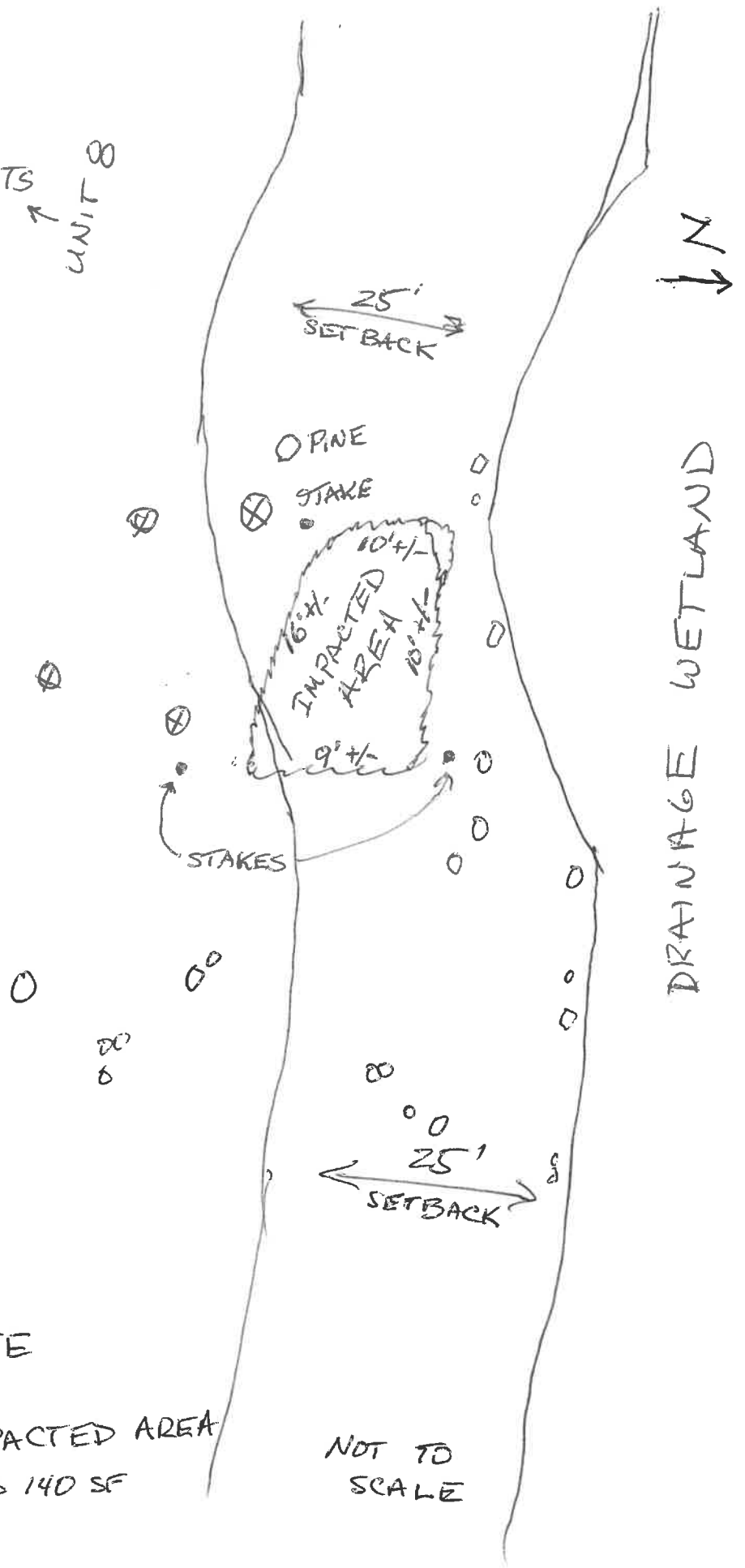
Mitchell Lee
Lee Tree Company
207-363-2306

7-24-2026

TIDEWATCH

579 SAGAMORE

APROX. MEASUREMENTS



⊗ = CUT TREE

O = REMAINING TREE

• = STAKE

lined = BORDER OF IMPACTED AREA
ABOUT 132 SF TO 140 SF

NOT TO SCALE

Attachment B: Aerial Site Location Map

The aerial image below shows the location of the affected area (blue rectangle) relative to Tide Watch Condominium and the adjacent unit.



Attachment A: Site Photo – Staked Planting Locations

The photo below shows the site with the three proposed tree planting locations marked with stakes. The understory shrubs would be planted inside the area defined by those three stakes.





Planting Recommendation

Red Maple
Red Maple is highly reliable for this inland wetland buffer. It tolerates the moist soils present in this location. It develops an extensive fibrous root system that stabilizes soil and reduces erosion. Environmentally, it improves water infiltration and filters nutrients and sediments before they reach the drainage ditch.

Yellow Birch
Yellow Birch thrives in moist woodland soils with variable drainage. It forms a strong, spreading root system that anchors soil around disturbed areas and stumps. It supports buffer function by enhancing infiltration and contributing to nutrient cycling and runoff filtration.

Northern Bayberry
Northern Bayberry is well-adapted to wet and variable soils in New Hampshire buffers. It produces dense, fibrous, and often rhizomatous roots that effectively hold soil and control erosion in the gaps between stumps. As a nitrogen-fixer, it improves soil fertility for the surrounding trees while aiding infiltration and pollutant filtration within the buffer.

An alternate option is juniper for ground cover.

Installation and Follow-Up Plan
The trees and shrubs will be planted within the approximately 150 square-foot area between the location of the removed tree and the wetland edge. One-inch caliper trees will be planted 8–12 feet apart from one another, and the one-gallon shrubs will be planted 4–5 feet apart. Once the plan is approved, the plants will be ordered and installed within the timeframe provided. Trees should be planted in late September to early October. They will be installed using natural fill mixed with organic fertilizer to support establishment and survival. The plantings will be inspected in April 2027 and again in July 2027 to evaluate health. A supplemental watering plan is not recommended because the replanting zone is a low area, so excessive watering would risk saturating the root systems in this already moist buffer environment. Instead, trees should only be watered when the soil is dry.

McFARLAND JOHNSON

53 Regional Drive, Box 3 • Concord, NH 03301
Phone: (603) 225-2978
www.mjinc.com

June 8, 2026

Eben Lewis
Southeast Region Supervisor
NHDES Wetlands Bureau
222 International Drive, Suite 175
Portsmouth, NH 03801
Sent via email to eben.lewis@des.nh.gov

Re: Peverly Hill Road Improvements, City of Portsmouth
DES File 2025-00388

Dear Mr. Lewis,

On behalf of the City of Portsmouth Department of Public Works, the applicant for the subject project, we are requesting an amendment to the existing application (DES File 2025-00388). This amendment is needed due to changes in resource impacts resulting from a revised stormwater treatment design. The original application included a proposed stormwater treatment facility off Greenleaf Avenue. The treatment facility has been relocated to Parcel 244-10-A (YMCA) off Peverly Hill Road.

The project area of impact is 6.15 acres with 5.07 acres being re-developed pavement. The increase in impervious pavement is 1.08 acres (47,050 SF). There are five proposed Stormwater Control Measures (SCMs) which will treat stormwater runoff to meet the Alteration of Terrain standards of 100% new impervious and 30% of the re-developed impervious. The project is proposing two sediment basins, two gravel wetlands, and an infiltration basin. Deep sump catch basins will also be used for pretreatment in off-line catch basins.

The updated design results in a decrease in permanent impacts within the undeveloped tidal buffer zone (TBZ) and prime wetland, with a total decrease in permanent impacts of 1,010 Sq Ft. Impacts are summarized in the table below.

Impacts (Sq Ft)	Original Application	Amendment	Difference
Permanent impacts to Prime Wetland	310	67	-243
Temporary Impacts to Prime Wetland	180	189	+9
Permanent Impacts to other wetlands	3,920	3,856	-64
Temporary impacts to other wetlands	2,263	2,542	+279
Permanent impacts to Undeveloped TBZ	10,152	9,449	-703
Temporary impacts to Undeveloped TBZ	2,190	2,876	+686
Total Permanent Impacts	**14,382**	**13,372**	**-1,010**
Total Temporary Impacts	**4,633**	**5,607**	**+974**

Please let us know if additional information is needed to complete your review of this application.

Sincerely,



Christine Perron, CWS
Regional Environmental Manager

Ecc:
Peter Rice, Department of Public Works
Kate Homet, Portsmouth Conservation Commission

AMENDMENT REQUEST FORM
FOR A WETLANDS APPLICATION OR PERMIT
Water Division/Land Resources Management
Wetlands Bureau

RSA/Rule: RSA 482-A:3, XIV(e)/ Env-Wt 311.13; Env-Wt 314.07

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

Any request for an amendment to a wetlands application or permit must be submitted to the Department on this form. An applicant may request an amendment to a pending permit application or an existing permit, provided the proposed change does not constitute a "**significant amendment**." A "**significant amendment**" means an amendment which changes the proposed or previously approved acreage of the permitted fill or dredge area by 20 percent or more, includes a prime wetland, or elevates the project's impact classification. This meaning of "significant amendment" shall not apply to an application amendment that is in response to a request from the Department (RSA 482-A:3, XIV(e)).

SECTION 1 - REQUESTED AMENDMENT TYPE AND AMENDMENT CRITERIA

Does the proposed change constitute a "significant amendment" as provided in RSA 482-A:3, XIV(e) and described above? ☐ Yes ☒ No

If you answered "yes" to the previous question, then you cannot request an amendment using this form and must file a new permit application.

☒ AMENDMENT TO PENDING PERMIT APPLICATION, NHDES FILE NUMBER: 2025-00388 (proceed to Section 2)

☐ AMENDMENT TO EXISTING PERMIT NUMBER: _____ (proceed to Section 3)

SECTION 2 - AMENDMENT TO A PENDING PERMIT APPLICATION

☐ Not applicable

To request an amendment to a pending permit application, the applicant must:

- Submit the information required by Env-Wt 311.03, showing the changes prior to the Department's issuance of a final decision on the application, including but not limited to, a revised set of plans and revised application fees for any additional square footage of impacts calculated pursuant to RSA 482-A:3, I(b) or (c) as applicable, and
- Provide notice to each person to whom notice of the original application was sent prior to filing the amended application with the Department (Env-Wt 311.13).

☒ By checking this box, you confirm that you have provided all information required pursuant to Env-Wt 311.03 to the Department and provided the required notice(s) as described above.

SECTION 3 - AMENDMENT TO AN EXISTING PERMIT

☐ Not applicable

To request an amendment to an existing permit, the permittee must:

- Submit the information required and filed with the original permit application, including but not limited to a revised set of plans, and revised application fees for any additional square footage of impacts calculated pursuant to RSA 482-A:3, I(b) or (c) as applicable, and
- Provide notice to all who received notice of the original application prior to filing the amended application with the Department (Env-Wt 314.07).

☐ By checking this box, you confirm that you have provided all necessary information to the Department and provided the required notice(s) as described above.

SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be or 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; meaning work was started or completed without a permit).

For intermittent and ephemeral streams, linear feet of impact are 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/rivers, linear feet of impact are 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	3657		☐	2358		☐
	Scrub-shrub Wetland	160		☐	125		☐
	Emergent Wetland	39		☐	59		☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland	67		☐	189		☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface Water	Intermittent / Ephemeral Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond			☐			☐
	Docking - Lake / Pond			☐			☐
	Docking - River			☐			☐
Banks	Bank - Intermittent Stream			☐			☐
	Bank - Perennial Stream / River			☐			☐
	Bank / Shoreline - Lake / Pond			☐			☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)	9449		☐	2876		☐
	Previously-developed TBZ			☐			☐
	Docking - Tidal Water			☐			☐
TOTAL		13372			5607		

DataCheck Results Letter
For NHDES Ecological Review

To: Claire Hilsinger
125 Nagog Park
Acton, MA 01720
chilsinger@mjinc.com

From: Ecological Review Section
NH Department of Environmental Services
Main Contact: Maddie Severance - EcologicalReviews@des.nh.gov

cc: NHFG Review

Date: 09/17/2025 (valid until 09/17/2026)
Re: DataCheck Review by NHDES Ecological Review Section and NH Fish & Game
Permits: NHDES - Alteration of Terrain Permit, NHDES - Shoreland Standard Permit, NHDES - Wetlands Standard Dredge & Fill, USACE - General Permit, USCEQ - Federal: NEPA Review, USEPA - Stormwater Pollution Prevention

DCT ID: DCT25-2533

Town: Portsmouth
Location: Peverly Hill Road between US Route 1 and NH Route 33

Project Description: The purpose of this request is to update NHB24-1272. The Peverly Hill Road Reconstruction Project in the City of Portsmouth includes reconstruction improvements (depending on results of the geotechnical evaluation) of the roadbed, construction of an improved stormwater system, and narrowing the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared-use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The project limits extend from NH Route 33 (Middle Road) to the intersection with West Road to tie into improvements completed as part of the Yoken's Plaza Development near US Route 1. The total project length is approximately 5,100 feet

Next Steps for Applicant:

NHDES's Ecological Review Section has searched the Natural Heritage Bureau's (NHB) database of rare species and exemplary natural communities. Please carefully read the comments below and the consultation requirements on the following page.

Plant and Natural Community Comments: Please send any prior rare plant and exemplary natural community coordination regarding the proposed project. If no previous coordination has occured please provide proposed plans.

Wildlife Comments: Please refer to NHFG consultation requirements below.

Plant and Natural Community Consultation

If this DataCheck letter includes records of rare plants and/or natural communities/systems, please contact the Ecological Review Section and provide any requested supplementary materials by emailing EcologicalReviews@des.nh.gov.

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

Wildlife Consultation

If this 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 (NHFG) pursuant to Fis 1004 is required.

If this 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 DataCheck results letter number and "Fis 1004 consultation request" in the subject line.

If the 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 DataCheck results letter number and "review request" in the email subject line.
Contact NH Fish & Game at (603) 271-0467 with questions.

Federal ESA Compliance

This letter does not constitute compliance with the federal Endangered Species Act (ESA). There may be occurrences of federally listed species in New Hampshire that are not included on the NH DataCheck Letter. For compliance with the federal Endangered Species Act (ESA), please visit the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation website (https://ipac.ecosphere.fws.gov/; IPaC) for an official list of federally listed species that may be present in your project area. If a federal agency is involved in your project through funding, permit, or other authorization, coordinate your IPaC results with your point of contact at the agency for further ESA review. If there is no federal agency nexus to your project, and you determine through IPaC, habitat evaluations, etc. that a

project may cause take of a federally listed species, we recommend coordinating with the USFWS' New England Field Office (newengland@fws.gov; 603-223-2541).

NHB Database Records:
The following record(s) have been documented in the vicinity of the proposed project. Please refer to this list when coordinating.

Natural Community	State[1]	Federal	Notes
High salt marsh	--	--	
Intertidal flat	--	--	
Low salt marsh	--	--	
Salt marsh system	--	--	Threats are primarily changes to the hydrology of the system, introduction of invasive species, and increased input of nutrients and pollutants.

Plant species	State[1]	Federal	Notes
dwarf glasswort (*Salicornia bigelovii*)	E	--	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.
marsh elder (*Iva frutescens*)	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.
saltmarsh agalinis (*Agalinis maritima ssp. maritima*)	T	--	A wildflower that grows in very shallow, briefly flooded forb pannes in the high salt marsh. 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.
tundra alkali grass (*Puccinellia pumila*)*	E	--	Primarily vulnerable to changes to the hydrology of its habitat, especially alterations that change water levels. It may also be susceptible to increased pollutants and nutrients carried in stormwater runoff.

Vertebrate species	State[1]	Federal	Notes
Blanding's Turtle (*Emydoidea blandingii*)*	E	--	Contact the NH Fish & Game Dept (see above).

[1]Codes: "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 'Wildlife Consultation' section above.

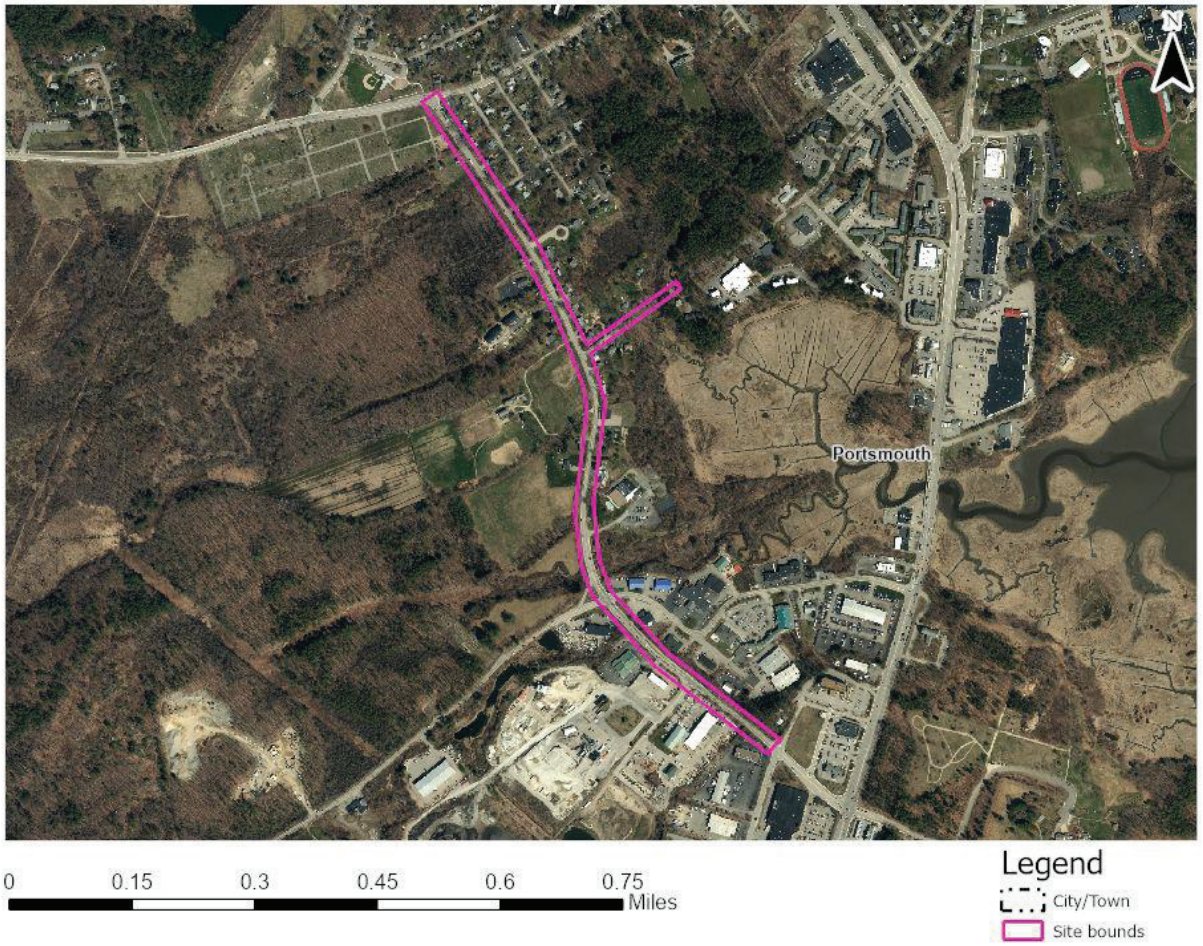
Disclaimer: NHB's database can only tell you of known occurrences that have been reported to NHFG/NHB. Known occurrences are based on information gathered by qualified biologists or members of the public, reported to our offices, and verified by NHB/NHFG.
However, many areas have never been surveyed, or have only been surveyed for certain species.
Surveys are recommended to determine what species/natural communities are present onsite.

DataCheck Results Letter
For NHDES Ecological Review

Please note: Effective June 10th, 2025, DataCheck letters will no longer include specific locations of rare species and exemplary natural communities. Changes to the map have been made to reflect this update.

Important: The list of rare species and exemplary natural communities that may be impacted by the project is included. Please refer to that list when coordinating.

DCT25-2533



Christine J. Perron

From: FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Sent: Wednesday, August 21, 2024 11:45 AM
To: Christine J. Perron
Cc: FGC: NHFG review; Lewis, Eben
Subject: NHB24-1272 Peverly Hill Road Portsmouth
Attachments: Spotted_Blandings Flyer_2024.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Good morning Christine,

New Hampshire Fish and Game has completed review of materials submitted for consultation for NHB24-1272 on 8/21/2024 (site plans dated 03/01/2024) prepared by Claire Hilsinger and Mcfarland Johnson. The project involves reconstruction improvements of the roadbed, construction of an improved storm water system, and narrowing the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared[1]use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The project limits extend from NH Route 33 (Middle Road) to the intersection with West Road in Portsmouth, NH.

Permit applications associated with this project:
(note if you apply for other permits not listed below, you must notify NHFG and request a response to see if recommendations provided below can be applied to other permit applications. All anticipated permits that may be required or will be applied for MUST be identified on the NHB datacheck results letter or the NHB letter is not considered valid and cannot be applied to a consultation/permit application review).

NHDES- Wetland Standard Dredge & Fill—Minor (Not yet filed)

Based on the NHB DataCheck results letter and the information provided in the submission as well as in communications and materials provided during our consultation review, we request the following recommended permit conditions. THESE RECOMMENDED PERMIT CONDITIONS ARE APPLICABLE TO ALL STATE PERMITS LISTED ABOVE.

- **For consideration in the AoT permit review process, please incorporate recommendations along with associated materials as detailed, into the final sheet plans as written below (update highlighted text as applicable) and provide to NHDES for final review and copy NHFG.**
- **For all other permits, please include recommended permit conditions in final plan sheets plans as written below (update highlighted text as applicable) and provide to NHDES for final review and copy NHFG. Permit reviewers will adopt/include NHFG permit conditions in the permit if approved.**

NHB24-1272 New Hampshire Fish and Game Recommended Permit Conditions:

1. Blanding's Turtle (State Endangered) occur within the vicinity of the project area. All operators and personnel working on or entering the site shall be made aware of the potential presence of these species and shall be

provided flyers that help to identify these species, along with NHFG contact information. See Plan Sheet xxxxxx ***Include attached flyers to plan sheet set.***

2. Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG immediately and NHFG contact information) shall be communicated during morning tailgate meetings prior to work commencement during while the project is under active construction.
3. All manufactured erosion and sediment control products, with the exception of turf reinforcement mats, utilized for, but not limited to, slope protection, runoff diversion, slope interruption, perimeter control, inlet protection, check dams, and sediment traps shall not contain plastic, or multifilament or monofilament polypropylene netting or mesh with an opening size of greater than 1/8 inches. See Plan Sheet xxxxxx
4. Turtles may be attracted to disturbed ground during nesting season. Turtle nesting season occurs approximately May 15th – June 30th. All turtle species nests and northern black racer nests are protected by NH laws. If a nest is observed or suspected, operators shall contact NHFG immediately for further consultation. The nest or suspected nest shall be marked (surrounding roped off or cone buffer deployed) and avoided; this shall be communicated to all personnel onsite. Site activities shall not occur in the area surrounding the nest or suspected nest until further guidance is provided by NHFG.
5. All observations of threatened or endangered species on the project site shall be reported immediately to the NHFG nongame and endangered wildlife environmental review program by phone at 603-271-2461 and by email at NHFGreview@wildlife.nh.gov, with the email subject line containing the NHB DataCheck tool results letter assigned number, the project name, and the term Wildlife Species Observation.
    a. Photographs of the observed species and nearby elements of habitat or areas of land disturbance shall be provided to NHFG in digital format at the above email address for verification, as feasible.
6. In the event a threatened or endangered species is observed on the project site during the term of the permit, the species shall not be disturbed, handled, or harmed in any way prior to consultation with NHFG and implementation of corrective actions recommended by NHFG.
    a. Site operators shall be allowed to relocate wildlife encountered if discovered within the active work zone if in direct harm from project activities. Wildlife shall be relocated in close proximity to the capture location but outside of the work zone and in the direction the individual was heading. NHFG shall be contacted immediately if this action occurs.
7. The NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit. , along with NHFG contact information. *Include attached flyer to plan sheet set.*

NHFG has completed our review of materials submitted for consultation under FIS 1004. No further coordination with NHFG is requested at this time. Please note that additional or a new consultation may be required in accordance with Fis 1004.08(b)4 if there are changes in project design that is referenced above which might result in potential impacts to threatened and endangered species, whether suggested to avoid harm to the species, or which could serve to increase the potential of adverse impacts to species.

These recommendations have been transmitted to the applicable permitting agency. Questions or concerns on NHFG recommendations provided in this communication **must** follow FIS 1004.12 that requires a written request for further consultation provided within 10 days of receipt of this communication. Note that NHFG recommendations may be withdrawn pursuant to FIS 1004.13.

Patrick Fitzgibbons
Wildlife Biologist
NH Fish and Game Department
Wildlife Division
Concord, NH 03301
603-271-3017
New Hampshire Fish and Game requirements for environmental review consultation can be found at: https://gencourt.state.nh.us/rules/state_agencies/fis1000.html. ALL requests for consultation and submittals should be sent via email to

NHFGreview@wildlife.nh.gov or can be sent hardcopy by mail. **The NHB datacheck results letter number needs to be included in the email subject line to read as "NHB*xx-xxxx_Project Name*_FIS 1004 Consultation Submittal".**

The requirements for consultation (Fis 1004) shall not apply to the following: statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule. Review requests for these projects or other project types should be submitted to NHFGreview@wildlife.nh.gov or can be sent hardcopy by mail – email or mail subject line for these review requests should read **"NHBxx-xxxx_Project Name_ Env. Review Request".**

Please provide shapefiles/KMZ/KMLs of the project site (and relevant features if applicable) with your submittal. Review statements provided in the NHB Datacheck Results letter for additional guidance.

From: Christine J. Perron <CPerron@mjinc.com>
Sent: Monday, August 12, 2024 5:30 PM
To: FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: Fis 1004 consultation request - NHB24-1272

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Good afternoon,

Consultation materials are attached for a City of Portsmouth roadway improvement project.

Thanks,
Christine

McFARLAND JOHNSON

CHRISTINE J. PERRON, CWS
REGIONAL ENVIRONMENTAL MANAGER

603-225-2978
CPERRON@MJINC.COM
WWW.MJINC.COM

WATCH FOR RARE TURTLES

NHFG Wildlife Biologist Contacts:

Melissa Winters 603-479-1129 and Josh Megyesy 978-578-0802

- Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th).
- Turtles are most active from April 15th - October 15th.



Blanding's turtle (State Endangered)

Large, dark/black domed shell with lighter speckles.

Distinct yellow throat/chin.

Semi-aquatic- uses both wetland and terrestrial habitats.



Spotted turtle (State Threatened)

Small, mostly aquatic with black or dark brown with yellow spots.

Fairly flat shell compared to Blanding's turtle.

Spots vary in color and number.

Semi-aquatic - uses both wetland and terrestrial habitats.

Blanding's and spotted turtles are protected by state laws. It is illegal to capture, harass or harm these species, including their nests. Handle ONLY if necessary to move out of harms way. Move to the nearest location in the direction they were moving and contact NHFG. Do not disturb nests.

Report sightings in accordance with NHFG permit conditions. Contact NHFG Wildlife Biologist Melissa Winters 603-479-1129 (cell) and Josh Megyesy 978-578-0802 (group text preferred) if a turtle is observed nesting or a nest site is suspected within the project area. Please report promptly, noting specific location, project site and date – Photographs strongly encouraged to be included with report.

Portsmouth 20258 - Parcels requiring easements

Multiple landowners	PEVERLY HILL RI
B&B PROPERTIES LLC	968 MIDDLE RD
FRITZ IAN P; NEWCOMER SUSAN M	942 MIDDLE RD
MOSCA MICHAEL J	46 PEVERLY HILL
INNES DYANNA L	78 PEVERLY HILL
TARLETON NATHAN M; TARLETON SHERRI M	74 LEAVITT AVE
BLACK KENNETH T	82 PEVERLY HILL
DIXON SUSAN L	106 LEAVITT AVE
CITY OF PORTSMOUTH DPW	PEVERLY HILL RI
ASRT LLC	138 LEAVITT AVE
CITY OF PORTSMOUTH DPW	PEVERLY HILL RI
CITY OF PORTSMOUTH DPW	PEVERLY HILL RI
NEW HOPE BAPTIST CHURCH	263 PEVERLY HIL
MURRAY CURT F; MCGANN ERIN E	260 PEVERLY HIL
REIS THOMAS E & MARYBETH B REIS JAMES B & MEEGAN C	305 PEVERLY HIL
535 PEVERLY HILL LLC	535 PEVERLY HIL
HETT WALTER D TRUST HETT WALTER D TRUSTEE	PEVERLY HILL RI
RUSSELL JULIA A REVO TRUST RUSSELL JULIA A TRUSTEE	515 PEVERLY HIL
DOAN TONY ISHII JENNY G	575 PEVERLY HIL
YOUNG MENS CHRISTIAN ASSOC	550 PEVERLY HIL
HETT WALTER D TRUST HETT WALTER D TRUSTEE	BANFIELD RD
SEACOAST FAMILY Y	PEVERLY HILL RI
GSG REALTY PORTSMOUTH LLC	1 MIRONA RD
BANFIELD ROAD LLC	15 BANFIELD RD
MMCT REALTY LLC	2 MIRONA RD
ALEXANDER NANCY H REVOC TRUST ALEXANDER NANCY H TRUSTEE	620 PEVERLY HIL
PIKE INDUSTRIES INC	650 PEVERLY HIL

BOURAS GROUP LLC	10 MIRONA RD
20 MIRONA ROAD EXT LLC	20 MIRONA RD EX
CITY OF PORTSMOUTH	680 PEVERLY HIL
DPH REALTY LLC	30 MIRONA RD EX

D	0242-0004-0000 through 0242-0004-0056***
	0232-0090-0000
	0232-0089-0000
RD	0232-0091-0000
RD	0232-0092-0000
	0232-0088-0000
RD	0232-0093-0000
	0232-0087-0000
D	0232-0095-0000
	0243-0050-0000
D	0243-0052-0000
D	0243-0053-0000
L RD	0242-0003-0000
L RD	0243-0055-0000
L RD	0255-0005-0000
L RD	0244-0009-0000
D	0255-0003-0000
L RD	0255-0004-0000
L RD	0255-0003-0001
L RD	0244-0010-000A
	0255-0002-0000
D	0244-0010-000B
	0253-0007-0000
	0254-0005-0000
	0253-0006-0000
L RD	0254-0006-0000
L RD	0254-0007-0000

***easement required only adjacent to Peverly Road but th

	0253-0005-0001
⟨T	0253-0005-0000
L RD	0254-0008-0000
⟨T	0253-0004-0000

ıe tax map doesn't show units of 0242-0004

CITY OF PORTSMOUTH
PEVERLY HILL ROAD

WETLAND IMPACT AND EROSION CONTROL PLANS

MAY 2026

CITY OF PORTSMOUTH

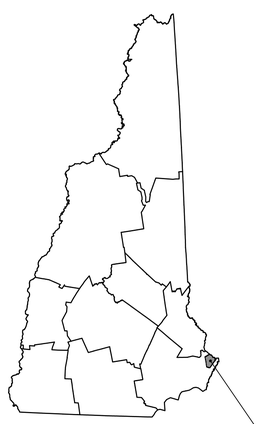
ROCKINGHAM COUNTY

NEW HAMPSHIRE

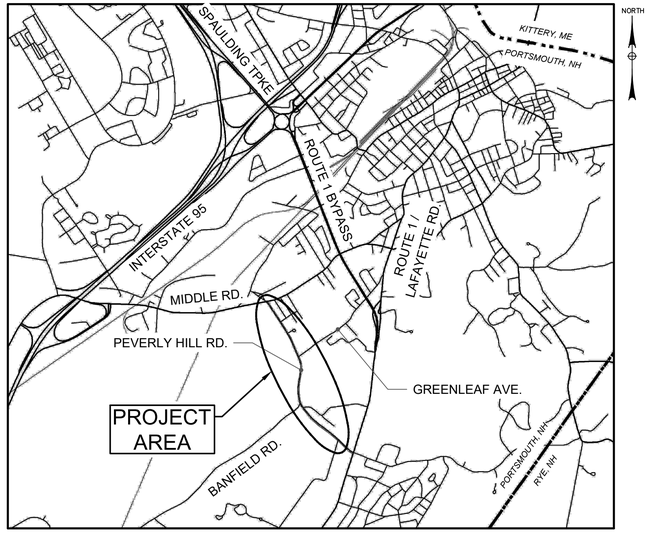
PORTSMOUTH # 20258

CMAQ PROGRAM # X-A002(061)

LOCATION MAP



VICINITY MAP



Sheet Index	
SHEET NUMBER	SHEET TITLE
CV–01	COVER
WP–01	Wetland Impact and Erosion Control Plan 01
WP–02	Wetland Impact and Erosion Control Plan 02
WP–03	Wetland Impact and Erosion Control Plan 03
WP–04	WETLAND IMPACT AND EROSION CONTROL PLAN 04
WP–05	WETLAND IMPACT AND EROSION CONTROL PLAN 05
WP–06	WETLAND IMPACT AND EROSION CONTROL PLAN 06
WP–07	WETLAND IMPACT AND EROSION CONTROL PLAN 07
WP–08	WETLAND IMPACT AND EROSION CONTROL PLAN 08
WP–09	WETLAND IMPACT AND EROSION CONTROL PLAN 09
WP–10	WETLAND IMPACT AND EROSION CONTROL PLAN 10
EPSC–1	EROSION CONTROL NOTES
EPSC–2	EROSION CONTROL DETAILS

PREPARED FOR:

CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801
(603) 427-1530
WWW.CITYOFPORTSMOUTH.COM

PREPARED BY:

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301
(603) 225-2978
WWW.MJINC.COM

STATE OF NEW HAMPSHIRE — BRIAN R. COLBURN — No. 11917 — LICENSED PROFESSIONAL ENGINEER

STATE OF NEW HAMPSHIRE — CHRISTINE J. PERRON — No. 294 — CERTIFIED WETLAND SCIENTIST

MCFARLAND JOHNSON PROJECT NUMBER: 18082.01

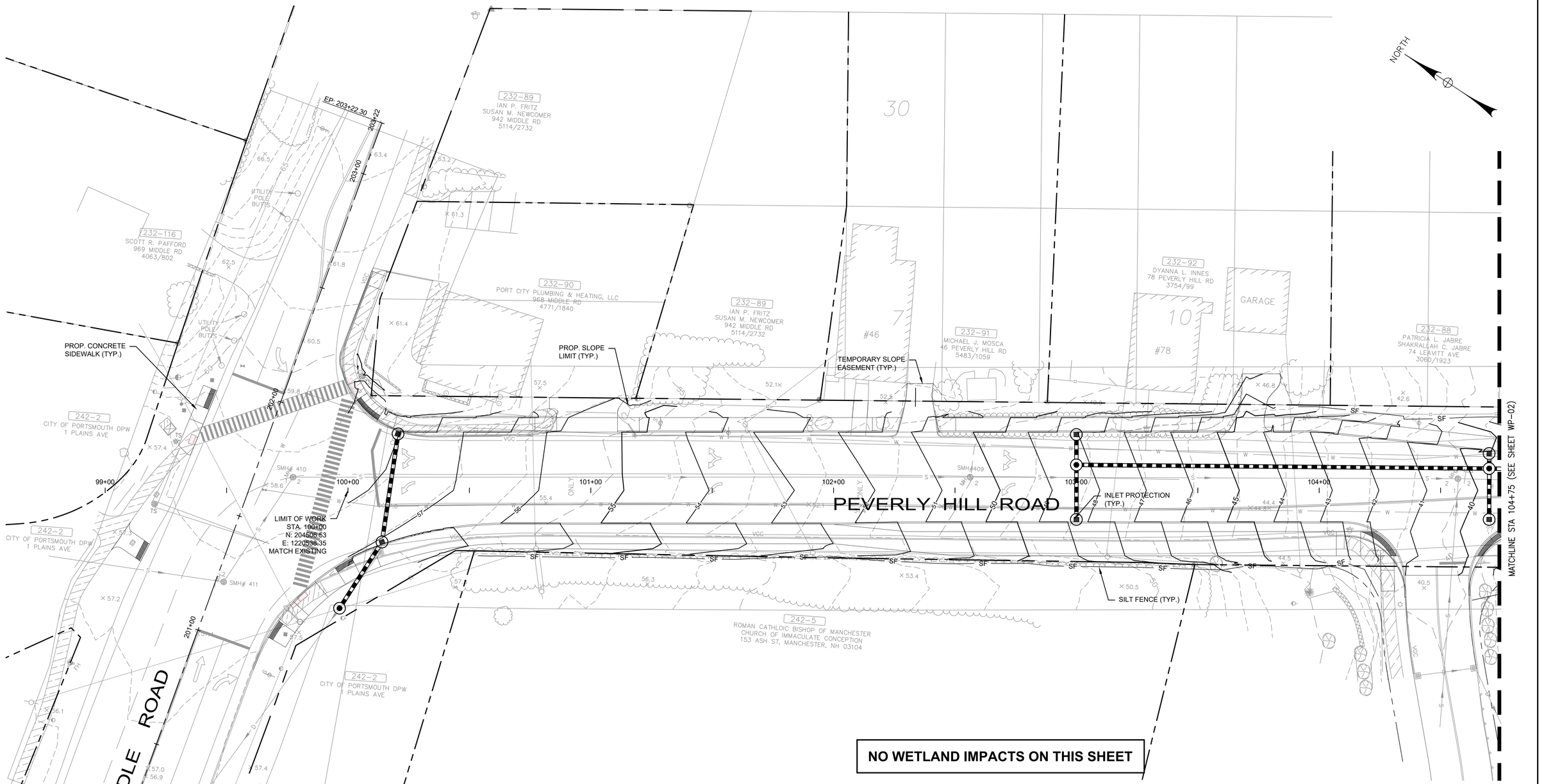
Wetland Impact Summary Table					
Impact Location	Wetland Classification	Permanent Wetland (sf)	Temporary Wetland (sf)	Permanent Prime Wetland Buffer (sf)	Temporary Prime Wetland Buffer (sf)
P.I.A 1	PFO1E	2			
T.I.A 1	PFO1E		906		
P.I.A 2	PFO1E	172			
P.I.A 3	PFO1E	73			
T.I.A 2	PFO1E		114		
P.I.A 4	PFO1E	647			
T.I.A 3	PFO1E		980		
P.I.A 5	PFO1E	2290			
T.I.A 4	PFO1E		351		
P.I.A 6	PFO1E	473			
T.I.A 5	PFO1E		7		
T.I.A 6	PWET 100/TBZ				2876
P.I.A 7	PWET 100/TBZ			9449	
T.I.A 7	PSS1E (Prime Wetland)		189		
P.I.A 8	PSS1E (Prime Wetland)*	67			
T.I.A 8	PSS1E		125		
P.I.A 9	PSS1E	160			
T.I.A 9	PEM1E/PFO1E		59		
P.I.A 10	PEM1E/PFO1E	39			
	Total	3923	2731	9449	2876

*Impacts within prime wetland buffer at this location will be limited to roadway footprint/roadway slopes

LEGEND

- TEMPORARY IMPACTS
- PERMANENT IMPACTS
- DW — DELINEATED WETLAND (DW)
- PWET — PRIME WETLAND (PWET)
- PWET 100/TBZ — 100 FT PRIME WETLAND BUFFER (PWET100)/TIDAL BUFFER ZONE (TBZ)
- TOB/OHW — TOP OF BANK (TOB) / ORDINARY HIGH WATER (OHW)
- WB 50 — 50 FT WATERFRONT BUFFER (WB)
- NWB 150 — 150 FT NATURAL WOODLAND BUFFER (NWB)
- PS 250 — 250' PROTECTED SHORELAND BUFFER (PS)

IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

NOTE:
WETLANDS AND SURFACE WATERS WERE DELINEATED BY McFARLAND JOHNSON, INC. IN 2017 AND 2024, IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0 (JANUARY 2012).

FOR CONSTRUCTION AND ALIGNMENT DETAILS, SEE CONSTRUCTION PLANS.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

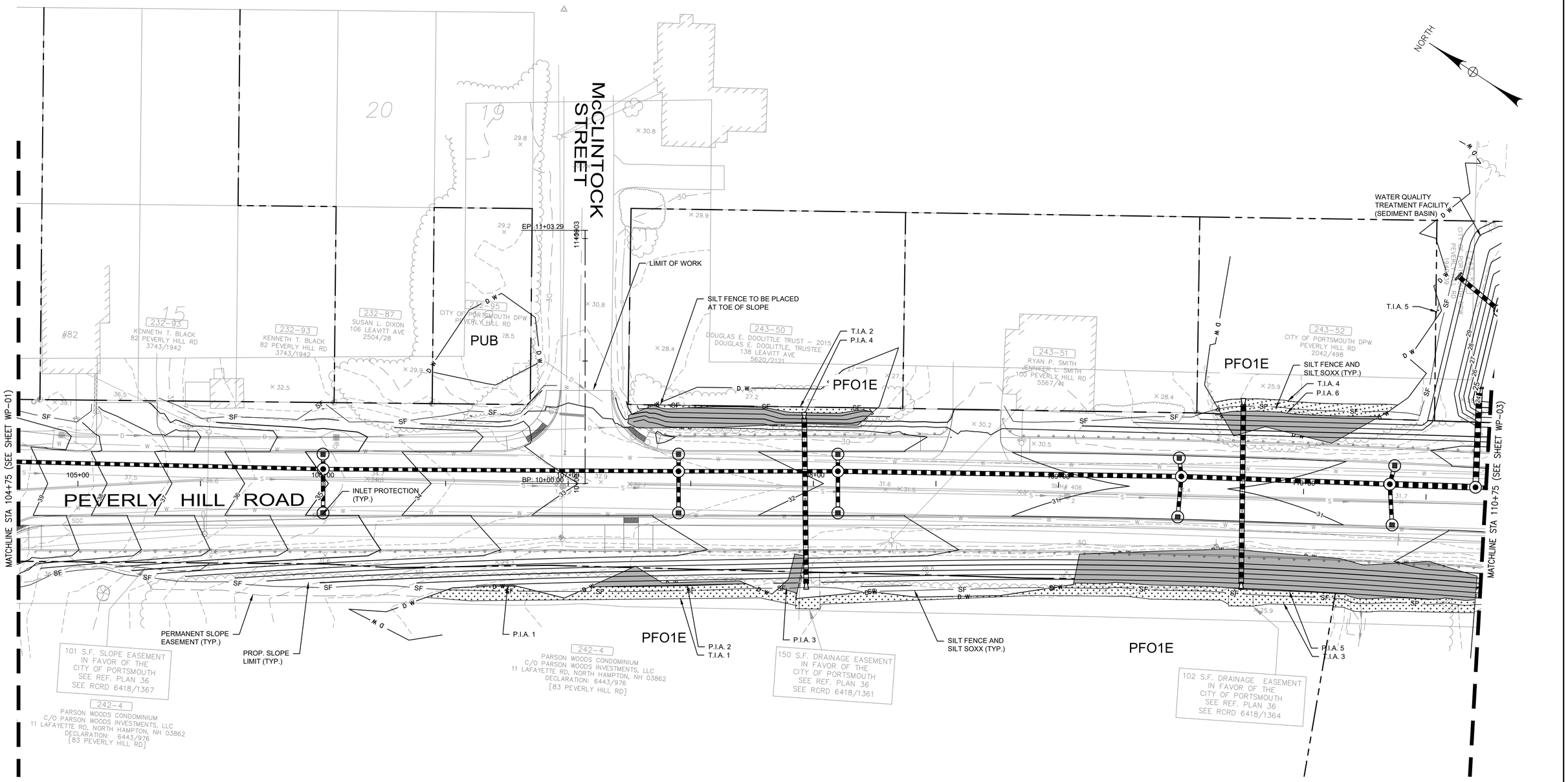
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 01

SCALE: AS SHOWN	DESIGN: SJS	**WP-01**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	2 OF 13



0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 02

SCALE: AS SHOWN	DESIGN: SJS	WP-02
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	3 OF 13

NORTH

MOFFAT STREET

PEVERLY HILL ROAD

LIMIT OF WORK

SILT FENCE (TYP.)

INLET PROTECTION (TYP.)

PROP. TEMPORARY SLOPE EASEMENT (TYP.)

PROP. SLOPE LINE (TYP.)

PROP. PERMANENT SLOPE EASEMENT (TYP.)

MATCHLINE STA 110+75 (SEE SHEET WP-02)

MATCHLINE STA 116+75 (SEE SHEET WP-04)

243-54-1
LOOR JOAN V BODWELL HAILEY
248 PEVERLY HILL RD #1
6300/2397

243-54-2
BEEBEE MYCHAL EVANS TYLER
248 PEVERLY HILL RD #2
6500/231

243-55
CURT F. MURRAY
ERIN E. MURRAY
260 PEVERLY HILL RD
5800/530

243-56
THE CHILDREN'S GARDEN PROPERTY, LLC
290 PEVERLY HILL RD
5536/2616

243-57
DONALD E. JONES
MONA M. JONES
296 PEVERLY HILL RD
2369/1541

TO GBF 2024 (#6103 23697)
N 55°21'42" E
814.97

242-3
NEW HOPE BAPTIST CHURCH
263 PEVERLY HILL RD
2269/663

255-9
DEAN A. COLBURN
287 PEVERLY HILL RD
3504/35

"PEVERLY HILL ESTATES"

#297
255-7
MARIE E. BEAUPRE
297 PEVERLY HILL
5073/384

1,501 S.F. ACCESS EASEMENT
FOR WATER SERVICES
IN FAVOR OF THE
CITY OF PORTSMOUTH
SEE REF. PLAN 32
SEE RCRD 5881/1072

255-8
PEVERLY HILL ESTATES CONDOMINIUM
c/o MERRIMACK VALLEY HOMES, INC.
1794 BRIDGE ST, UNIT 6, DRACUT, MA 01826
6064/540
293 PEVERLY HILL RD

NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 03

SCALE: AS SHOWN	DESIGN: SJS	**WP-03**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	4 OF 13

NORTH

MATCHLINE STA 31+75 (SEE SHEET WP-10)

GREENLEAF AVENUE

LIMIT OF WORK

PT. 31+11.44

31+00

Mid: 30+55.72

243-59
ANDREW A. NITSCHELM
KISTA D. NITSCHELM
384 PEVERLY HILL RD
5502/2109

243-58
LIONEL S. WHITE REV. TRUST
LIONEL S. WHITE, TRUSTEE
LEAVY A. WHITE REV. TRUST
LEAVY A. WHITE, TRUSTEE
300 PEVERLY HILL RD
5822/2415

#433
243-8
DONNA FLEMING
SARON A. FLEMING
433 GREENLEAF AVE
5761/724

243-9
HSIU Y. LIEN
HYON S. CHOE
423 PEVERLY HILL RD
4767/2843

#437
243-10
MARVIN H. SPIEGEL TRUST
MARVIN H. SPIEGEL, TRUSTEE
437 PEVERLY HILL RD
3495/28

#451
243-11
STEVEN P. LEONARD
451 PEVERLY HILL RD
5629/599

243-12
KUMIKO ANNEE SHORTILL
465 PEVERLY HILL RD
5453/123

PEVERLY HILL ROAD

MATCHLINE STA 116+75 (SEE SHEET WP-03)

MATCHLINE STA 122+50 (SEE SHEET WP-05)

INLET PROTECTION (TYP.)

TEMPORARY SLOPE EASEMENT (TYP.)

PROP. SLOPE LINE (TYP.)

SILT FENCE (TYP.)

255-6
BOYD J. STEVENS
RHONDA H. STEVENS
303 PEVERLY HILL RD
3179/1464

255-5
THOMAS E. & MARYBETH B. REIS
JAMES B. & MEEGAN C. REIS
305 PEVERLY HILL RD
5560/2148

NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 04

SCALE: AS SHOWN	DESIGN: SJS	**WP-04**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	5 OF 13

MATCHLINE (SEE SHEET WP-10)

NORTH

MATCHLINE STA 122+50 (SEE SHEET WP-04)

MATCHLINE STA 128+25 (SEE SHEET WP-06)

PEVERLY HILL ROAD

244-9
535 PEVERLY HILL LLC
535 PEVERLY HILL RD
4438/2631

244-11
LAURA FRAZER
539 PEVERLY HILL RD
5475/2399

244-12
EVGENIY V. ZAKHAROV
541 PEVERLY HILL RD
5426/2374

244-10-C
RUESSWICK FAMILY REV. TRUST OF 2000
WAYNE D. RUESSWICK, TRUSTEE
CAROL R. RUESSWICK, TRUSTEE
545 PEVERLY HILL RD
4639/1735

244-10-C
RUESSWICK FAMILY REV. TRUST OF 2000
WAYNE D. RUESSWICK, TRUSTEE
CAROL R. RUESSWICK, TRUSTEE
545 PEVERLY HILL RD
4639/1735

255-3
WALTER D. HETT TRUST
WALTER D. HETT, TRUSTEE
PEVERLY HILL RD
4553/436

255-4
JULIA A. RUSSELL REV. TRUST
JULIA A. RUSSELL, TRUSTEE
515 PEVERLY HILL RD
3313/1813

255-3-1
STEVEN L. RUSSELL
VI RUSSELL
575 PEVERLY HILL ROAD
5846/160

255-3-1
STEVEN L. RUSSELL
VI RUSSELL
575 PEVERLY HILL ROAD
5846/160

SILT FENCE (TYP.)

INLET PROTECTION (TYP.)

PROP. SLOPE LINE (TYP.)

SF

OBSCURED

EX. ABAN. 8" WM

123+00 124+00 125+00 126+00 127+00 128+00

NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

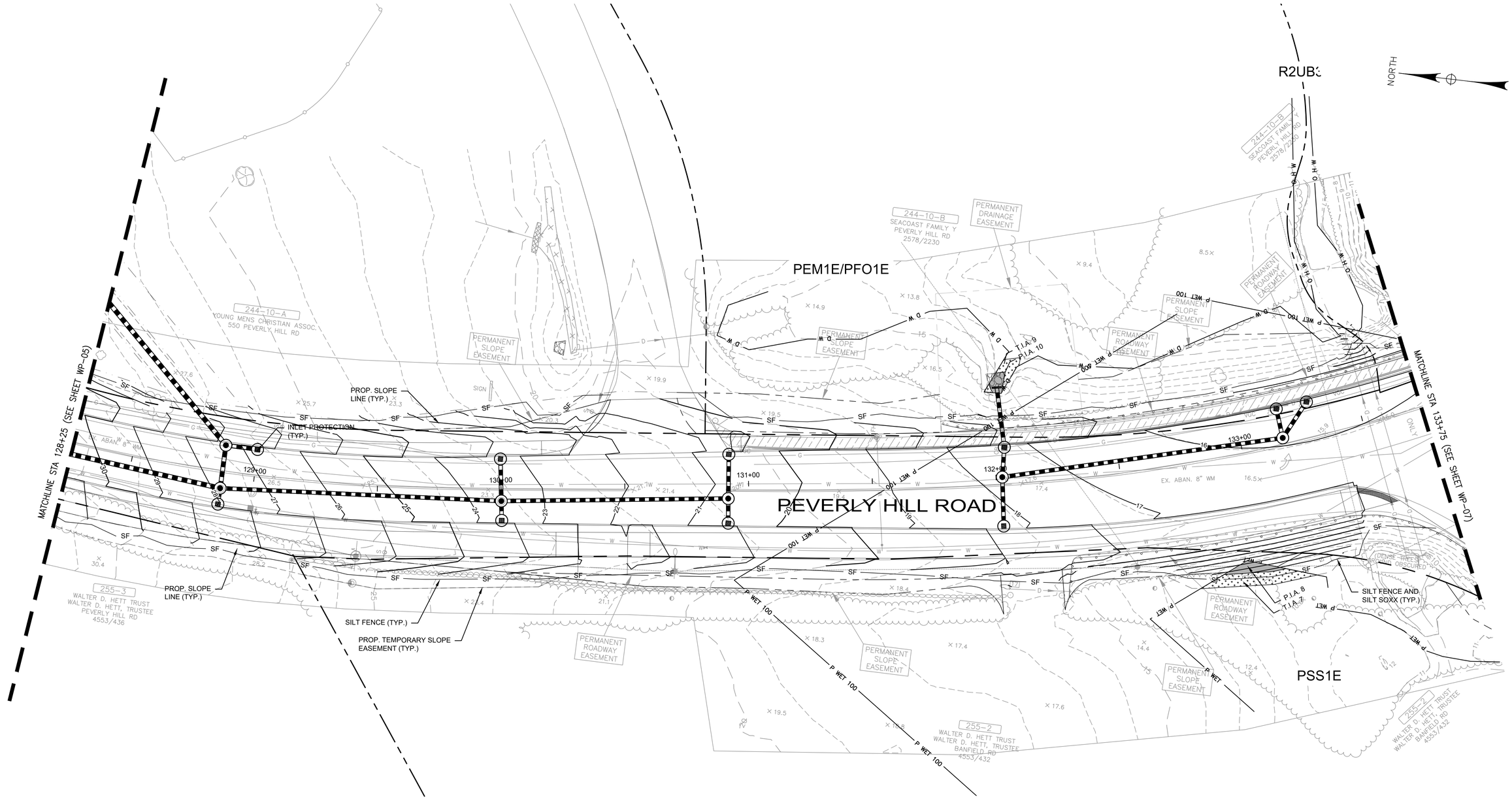
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 05

SCALE: AS SHOWN	DESIGN: SJS	**WP-05**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	6 OF 13



Note:
Impacts to Prime Wetland Buffer not shown in this area. A waiver has been requested for developed upland impacts on this sheet.

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 06

SCALE: AS SHOWN	DESIGN: SJS	**WP-06**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	7 OF 13

MIRONA ROAD

PEVERLY HILL ROAD

BANFIELD ROAD

EP: 51+93.77
Mid: 51+85.19
PCC: 51+76.62
51+64

LIMIT OF WORK

PERMANENT ROADWAY EASEMENT

PERMANENT SLOPE EASEMENT

PERMANENT DRAINAGE EASEMENT

253-7
GSG REALTY PORTSMOUTH LLC
1 MIRONA RD
5733/507

253-6
TWO-FOUR MIRONA ROAD, LLC
2 MIRONA RD
5042/2925

253-5-1

254-6
NANCY H. ALEXANDER REV. TRUST
NANCY H. ALEXANDER, TRUSTEE
620 PEVERLY HILL RD
5587/1689

254-5
BANFIELD ROAD, LLC
15 BANFIELD RD
5631/531

SILT FENCE (TYP.)

INLET PROTECTION (TYP.)

PROP. SLOPE LINE (TYP.)

SILT FENCE AND SILT SOXX (TYP.)

WATER QUALITY TREATMENT FACILITY (SEDIMENT BASIN)

PSS1E

P.I.A. 9
T.I.A. 8

BP: 40+00.00

BP: 50+00.00

MATCHLINE STA 133+75 (SEE SHEET WP-06)

MATCHLINE STA 139+75 (SEE SHEET WP-08)

NORTH

Note:
Impacts to Prime Wetland Buffer not shown in this area. A waiver has been requested for developed upland impacts on this sheet.

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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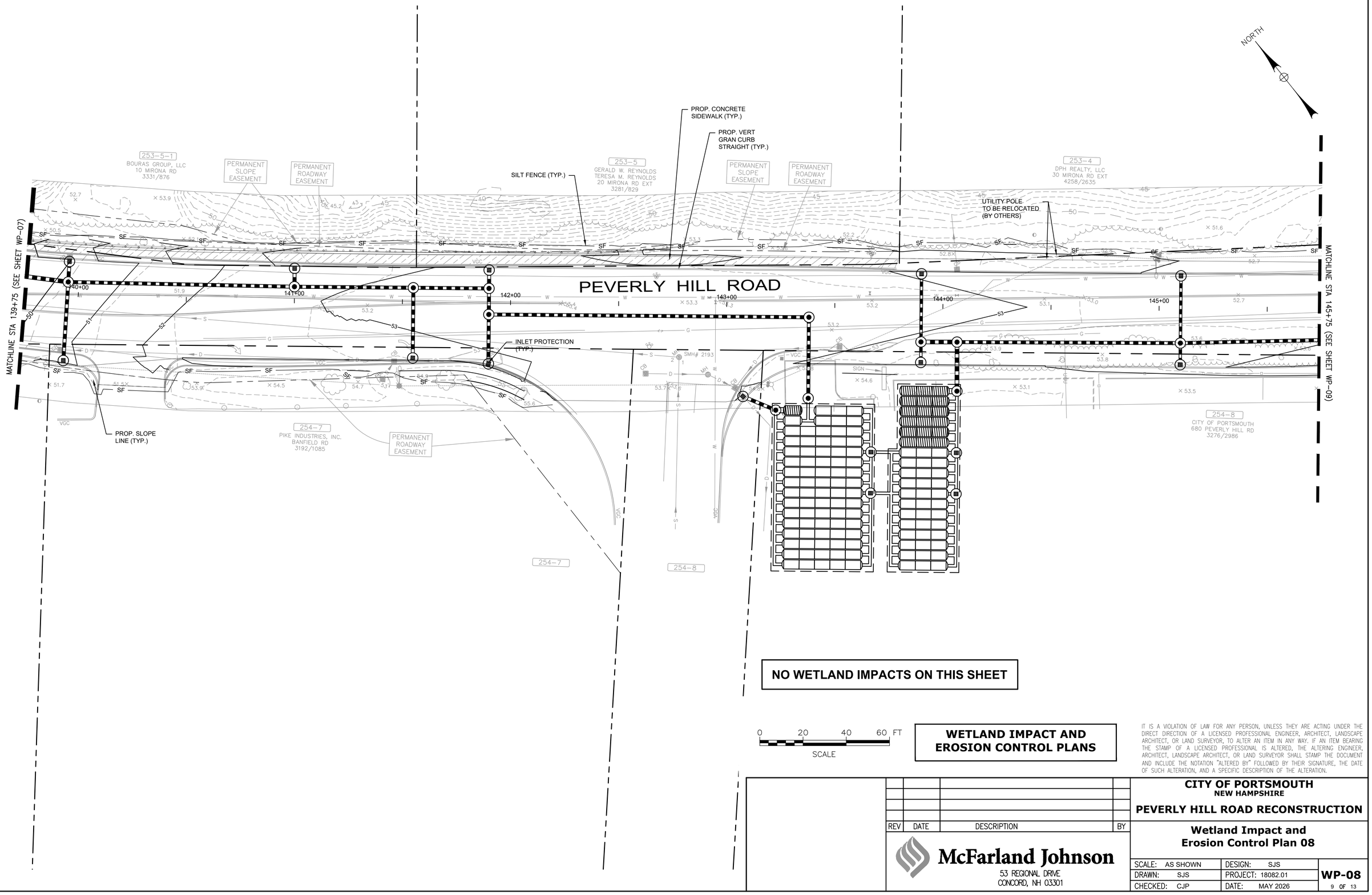
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CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 07

SCALE: AS SHOWN	DESIGN: SJS	WP-07
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	8 OF 13



NO WETLAND IMPACTS ON THIS SHEET

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SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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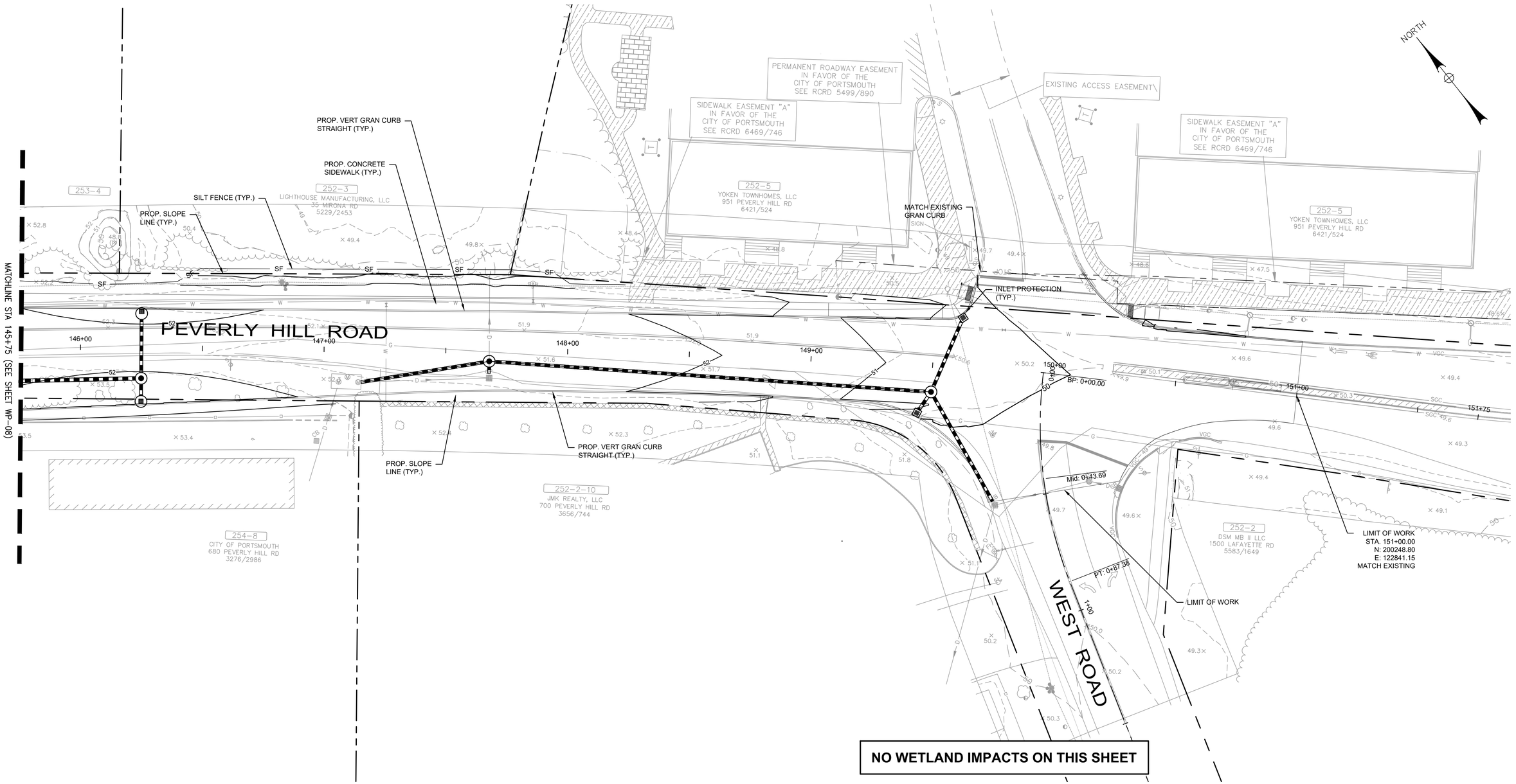
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Wetland Impact and Erosion Control Plan 08

SCALE: AS SHOWN	DESIGN: SJS	**WP-08**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: MAY 2026	9 OF 13



NO WETLAND IMPACTS ON THIS SHEET

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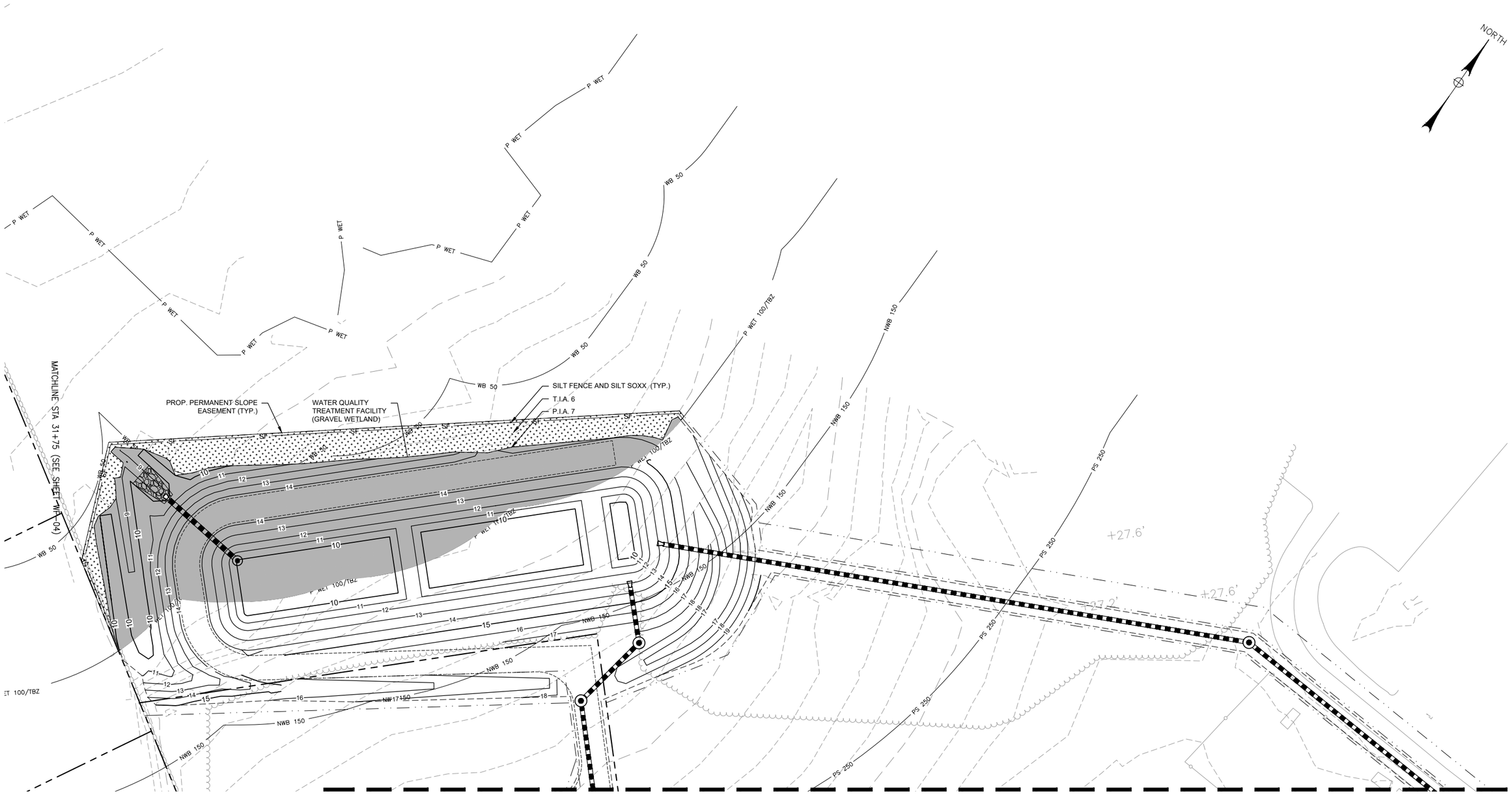
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PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 09

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Wetland Impact and Erosion Control Plan 10

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EROSION CONTROL SPECIFICATIONS:

1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 – EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION" 2008. THE CONTRACTOR SHALL HAVE REFERENCE TO THIS BOOK.
2. RECOGNIZING THAT IMMEDIATE ATTENTION TO EROSION CONTROL PRACTICES DRAMATICALLY IMPROVES SOIL AND MOISTURE CONSERVATION AND REDUCES NEGATIVE IMPACTS ON WATER QUALITY. THE CONTRACTOR SHALL GIVE HIGH PRIORITY TO THE DAILY AND TIMELY INSTALLATION BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES. IMMEDIATE INSTALLATION OF PRACTICES USUALLY REDUCES LONG TERM COSTS TO THE CONTRACTOR AND PROVIDES BENEFITS TO THE DEVELOPER AND THE PUBLIC GOOD.
3. EROSION CONTROL PRACTICES ARE SHOWN ON THE PLANS WITH RESPECT TO LOCATION AS DETERMINED FROM EXISTING TOPOGRAPHY. CHANGES MAY BE INDICATED IN THE FIELD TO IMPROVE EROSION AND SEDIMENT CONTROL.
4. CONSTRUCTION SHALL PROCEED UNIT BY UNIT TO FACILITATE INSTALLATION OF EROSION CONTROL MEASURES AND THE COMPLETION OF GRADING, SEEDING, AND LANDSCAPING AS SOON AS POSSIBLE WITHIN A UNIT. THIS PROCEDURE SHOULD RESULT IN THE EXPOSURE OF THE SMALLEST PRACTICAL LAND AREA AT ANY ONE TIME.
5. AREAS ADJACENT TO STREAMS CALL FOR PARTICULAR ATTENTION WITH REGARD TO SILT INTERCEPTION. INSTALL SILT FENCES AS SHOWN ON PLAN AND IN DETAIL BEFORE EARTHWORK COMMENCES. ADDITIONAL FENCING MAY BE REQUIRED AS WORK CONTINUES.
6. ALL DISTURBED AREAS AND ALL PROPOSED GRASSED AREAS SHALL HAVE TOPSOIL SPREAD (4" MINIMUM) AND BE LIMED, FERTILIZED, TILLED, SEEDED AND MULCHED. ALL SLOPES 3:1 (1 RISE ON 3 RUN) AND STEEPER SHALL HAVE MULCH HELD IN PLACE WITH NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), STAPLED AND STAKED. EACH AREA SHALL BE LIMED, FERTILIZED, PREPARED, SEEDED AND MULCHED (WITH ANCHORED NETTING AS REQUIRED) WITHIN 3 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED WITHIN 21 DAYS OF INITIAL DISTURBANCE. WHEN PERMANENT SEEDING CANNOT BE INSTALLED BY SEPTEMBER 15, TEMPORARY SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE INSTALLED IMMEDIATELY AND MAINTAINED IN THAT CONDITION UNTIL PERMANENT PRACTICES CAN BE INSTALLED IN THE FOLLOWING PLANTING SEASON.
7. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY TIME BEFORE DISTURBED AREAS ARE STABILIZED.
8. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE (SEE NOTE 10).
9. TEMPORARY STABILIZATION OF DISTURBED AREAS:

   SEEDBED PREPARATION: TILL THREE INCHES DEEP MIXING IN FERTILIZER. APPLY LIME 2 TONS/ACRE (100#/1,000 SQ. FT.) FERTILIZE: UNIFORMLY APPLY NOT LESS THAN 300#/ACRE (7#/1,000 SQ. FT.) OF 10–20–20 OR EQUIVALENT.

   SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE 1 BELOW. SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

   MULCHING: MULCH ALL DISTURBED AREAS WITH 1–1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70–90#/1,000 SQ. FT.). ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND FLATTER SLOPES SUBJECT TO WASH OR WIND BLOWN. USE JUTE (OR OTHER BIODEGRADABLE) NETTING. STAKING AND STAPLING MAY BE REQUIRED.

TABLE 1 – PLANT SELECTION AND SEEDING RATES

SPECIES	PER ACRE	PER 1000 SQ.FT.	REMARKS
WINTER RYE	2 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO DEPTH OF ONE INCH.
OATS	2 1/2 BU OR 80 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO DEPTH OF ONE INCH.
ANNUAL RYE	40 LBS.	1 LB.	GROWS QUICKLY. BUT IS OF SHORT GRASS DURATION USE WHERE APPEARANCES ARE IMPORTANT. COVER SEED WITH NO MORE THAN 1/4 INCH OF SOIL. WITH MULCH, SEEDING MAY BE DONE THROUGHOUT GROWING SEASON. OTHERWISE SEED EARLY SPRING OR BETWEEN AUGUST 15 & SEPTEMBER 15.

10. PERMANENT STABILIZATION OF DISTURBED AREAS:

    SEED BED PREPARATION: TOPSOIL (SANDY LOAM, LOAM, OR SILT LOAM), FRIABLE, FREE OF TREE ROOTS, WEEDS, STONES MORE THAN 1–1/2 INCHES IN DIAMETER OR LENGTH SHALL BE PLACED OVER ALL DISTURBED AREAS IN A 4" (MINIMUM) THICK LAYER.

    TOPSOIL: TOPSOIL SHALL BE FREE OF HERBICIDES AND TOXIC MATERIALS. TILL THREE INCHES DEEP MIXING IN THE FERTILIZER AND LIME. APPLY LIME AT RATES INDICATED IN TABLE "A".

    SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE "C", SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

    MULCHING: MULCH ALL DISTURBED AREAS WITH 1–1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70 – 90#/1,000 SQ. FT.). ANCHOR MULCH ON ALL SLOPES 3:1 OR STEEPER AND ON FLATTER SLOPES SUBJECT TO WASH (WATERWAYS AND/OR WINDBLOWN) USING BIODEGRADABLE NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), WITH STAKING AND STAPLING.

TABLE "A"–LIME APPLICATION RATES

EXISTING SOIL pH	LIMESTONE TO BE ADDED	
	TONS/ACRE	POUNDS/CY
4.0–4.4	3	12
4.5–4.9	2	8
5.0–5.4	1	4
UNKNOWN	2	8

TABLE "C" – SEEDING GUIDE

USE	SEEDING MIXTURE 1/	SOIL DRAINAGE: DROUGHTY	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNEL WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSABLE LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT – SEE PM–NH–24 RECOMMENDATIONS REGARDING RECLAMATION OF SAND AND GRAVEL PITS. *

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE "D".
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREAS AND ATHLETIC FIELDS.

* SEE "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS; TECHNICAL NOTE PM–NH–24, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, REVISION APRIL, 1991.

11. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
    A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
    B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
    C. A MINIMUM OF 3" OF NON–EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
    D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

    MAINTENANCE: DURING THE CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE LONG TERM VEGETATION IS ESTABLISHED TO A 70% VEGETATIVE STAND.
    A. DISTURBED AREAS WILL BE FERTILIZED AND RESEEDED.
    B. CATCH BASINS WILL BE CHECKED AND CLEANED AS NECESSARY.
    C. DRAINAGE AND GRASS TREATMENT SWALES SHALL BE CHECKED FREQUENTLY AND CLEANED AS REQUIRED.
    D. THE SILT FENCES AND HAYABLE DIKES WILL BE CHECKED ON A REGULAR BASIS AND REPAIRED AS NECESSARY TO CORRECT ANY DAMAGE, DETERIORATION, AND SHORT–CIRCUITING.
12. REFER TO "EROSION AND SEDIMENT CONTROL PLAN" PRIOR TO ANY SITE DISTURBANCE. CONTACT ENGINEER FOR COPIES OF PLAN.

    INSPECTIONS: THE ENGINEER SHALL BE CONTACTED ON A REGULAR BASIS TO INSPECT ALL EROSION CONTROL PRACTICES AS WELL AS THE MAINTENANCE OF THE EROSION CONTROL COMPONENTS. REFER TO CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EROSION CONTROL PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
13. ALL TREATMENT SWALES, DITCHES, AND LEVEL LIP SPREADERS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
14. FOR SPECIAL WINTER CONSTRUCTION CONSIDERATIONS, THE CONTRACTOR SHALL REFER TO THE "EROSION & SEDIMENT CONTROL PLAN".
15. THIS PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430.53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.
16. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPS ARE STABILIZED.
17. CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

TABLE "D" – MIXTURES & RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDTOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH OR	15	0.35
FLATPEA	30	0.75
TOTAL	40 or 55	0.95 or 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10
D. BIRDSFOOT TREFOIL	20	0.50
REDTOP	10	0.20
TOTAL	30	0.70
E. TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL	50	1.20
F. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
G. TALL FESCUE 1/	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

OTHER SEED MIXTURES AND SEEDING RATES AS RECOMMENDED BY THE USDA – NATURAL RESOURCES CONSERVATION SERVICE MAY BE USED WITH PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CONSTRUCTION SEQUENCE:

NOTE: THE FOLLOWING SEQUENCE IS PRELIMINARY AND THE LIKELY ORDER OF CONSTRUCTION BUT THE EXACT MEANS AND METHODS WILL ULTIMATELY BE DECIDED BY THE SELECTED CONTRACTOR.

1. INSTALL APPROPRIATE PERIMETER CONTROLS FOR SOIL EROSION AND SEDIMENT CONTROL
2. COMPLETE TREE CLEARING
3. CONSTRUCT STORMWATER BASINS
4. CONSTRUCT CROSS CULVERTS
5. CONSTRUCT NEW WATERMAIN
6. CONSTRUCT NEW EMBANKMENTS AND FILL SECTIONS
7. CONSTRUCT NEW CLOSED DRAINAGE SYSTEM
8. CONSTRUCT NEW ROADWAY SUBBASE
9. PAVE ROADWAY TO BINDER GRADE
10. CONSTRUCT CURBING
11. CONSTRUCT SIDEWALK AND MULTI–USE PATH
12. CONSTRUCT LOAM AND SEED
13. REMOVE PERIMETER CONTROLS

SPECIAL WINTER CONSIDERATIONS

THE MAJOR FOCUS OF WINTER EROSION AND SEDIMENT CONTROL IS THE PERIODS OF INTENSE RUNOFF ASSOCIATED WITH MID–WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT.

FROZEN GROUND MAKES THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES VERY DIFFICULT. INSTALLATION SHOULD TAKE PLACE WELL BEFORE THE GROUND FREEZES. MAINTENANCE IN WINTER WILL BE MUCH MORE TIME CONSUMING AND DIFFICULT THAN IN THE SUMMER. THE OVERALL CONSTRUCTION SCHEDULE AND THE WEEKLY WORK SCHEDULE WILL BE DEVELOPED TO INCREASE TIME, EFFORT, AND MANPOWER DEVOTED TO MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES.

INTENSE RUNOFF IN MID–WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT PERIOD, CAN RESULT IN MORE SEVERE EROSION AND SEDIMENTATION PROBLEMS THAN RUNOFF FROM SUMMER STORMS. THE SOIL IS OFTEN COMPLETELY SATURATED WITH WATER, AND IS ALSO OFTEN UNDERLAIN BY A FROST LAYER. BOTH OF THESE FACTORS RESULT IN A GREATER PERCENTAGE OF THE RAIN OR MELTWATER RUNNING OVER THE GROUND SURFACE. WINTER AND SPRING RAINSTORMS ARE OFTEN HEAVIER AND MORE INTENSE THAN SUMMER SHOWERS. FOR THESE REASONS, EROSION AND SEDIMENTATION CAN BE ESPECIALLY SEVERE IN MID–WINTER THAWS AND THE SPRING MELT.

1. CONTROL MEASURES FOR WINTER CONSTRUCTION:

   A. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;

   B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND

   C. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF GRAVEL PER NHDOT ITEM 304.2.

   D. MINIMIZE DISTURBED AREA AND TIME OF DISTURBANCE: DISTURBED AREA AND LENGTH OF DISTURBANCE SHALL BE MINIMIZED ESPECIALLY BETWEEN OCTOBER 15TH AND MAY 1ST.

   E. GRASSED OR RIP RAPPED SWALES AND DITCHES: INSTALLATION WILL OCCUR BEFORE GROUND FREEZES. CHANNELS ARE TO BE STABILIZED WITH STONE, RIPRAP, OR VEGETATION IMMEDIATELY. INSPECTIONS ARE TO BE FREQUENT WITH REMOVAL OF ANY FLOW BLOCKAGE CAUSED BY ICE OR SEDIMENT.

   F. MULCHING: MULCH ALONE SHOULD NOT BE CONSIDERED AN ADEQUATE EROSION AND SEDIMENT CONTROL TECHNIQUE FOR AREAS THAT ARE DISTURBED IN THE WINTER OR SPRING. MULCH IS EASILY WASHED AWAY BY INTENSE RUNOFF FLOWING OVER SATURATED OR FROZEN SOIL. IT IS ESSENTIAL THAT MULCH BE LAID DOWN IN SUCH A WAY THAT IT WILL NOT BLOW OR WASH AWAY.

   G. SILT FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES, OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. INSPECT FREQUENTLY AND REMOVE ANY COLLECTED SEDIMENT PERIODS IN ORDER TO PROVIDE AS MUCH CAPACITY AS POSSIBLE.

   H. SNOW FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. FENCES MUST BE PLACED LIBERALLY AROUND THE WORK SITE TO KEEP SOIL DISTURBANCE TO AN ABSOLUTE MINIMUM.

   I. STONE CHECK DAMS: PER DETAIL THE PLACEMENT WILL OCCUR IN SWALES AND DITCHES AFTER FINAL GRADING AND IS TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.

2. INSPECTION AND MAINTENANCE

   INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED MORE FREQUENTLY IN THE WINTER AND SPRING THAN IN THE SUMMER. CAREFUL ATTENTION MUST BE GIVEN TO WEATHER PREDICTIONS. INSPECTION OF ALL CONTROL MEASURES WILL BE ONGOING TO ENSURE THAT STRUCTURES WILL MANAGE THE POTENTIALLY HEAVY AND INTENSE RUNOFF. CONSTANT MAINTENANCE OF CRITICAL CONTROL MEASURES MAY BE NECESSARY DURING THE WINTER AND EARLY SPRING TO PREVENT FAILURE OR OVERLOADING OF CONTROL MEASURES. A SECOND LINE OF CONTROL WILL BE QUICKLY INSTALLED IF PROBLEMS OCCUR. A SUBSTANTIAL AMOUNT OF TIME, EQUIPMENT, AND MANPOWER SHALL BE DEVOTED TO EROSION AND SEDIMENT CONTROL.

3. FOLLOW–UP

   INSTALLATION OF PERMANENT VEGETATIVE CONTROLS WILL BE REQUIRED AS EARLY AS IS PRACTICAL AT THE BEGINNING OF THE GROWING SEASON.

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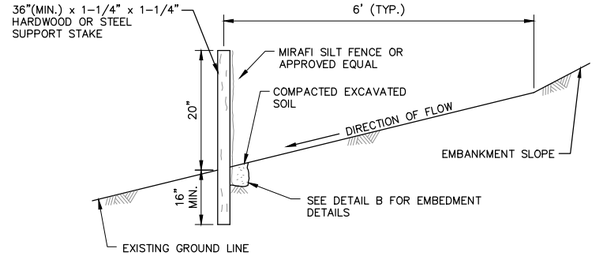
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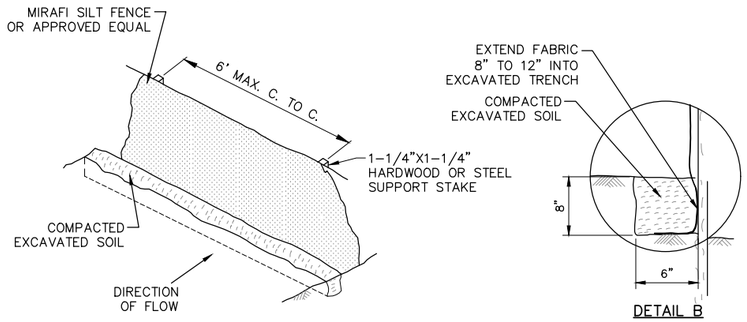
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Erosion Control Notes

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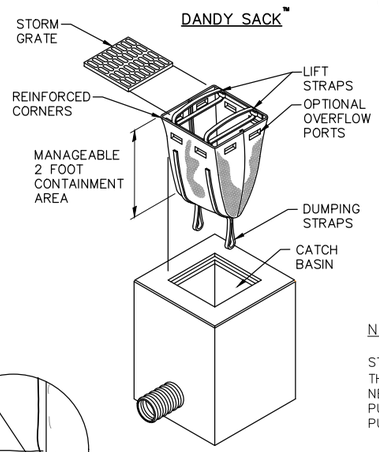
DETAIL B

NOTES:

1. FILTER FABRIC SILT FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE-HALF (1/2) THE ABOVE GROUND HEIGHT OF THE FENCE.
3. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

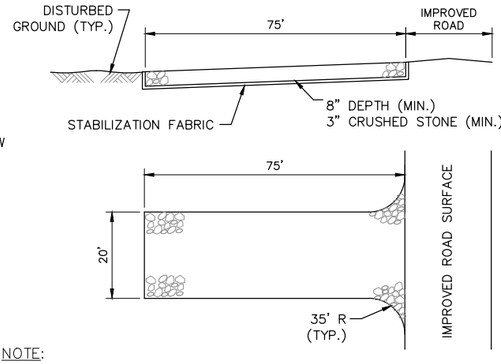
FILTER FABRIC SILT FENCE

NOT TO SCALE



DANDY SACK

NOT TO SCALE

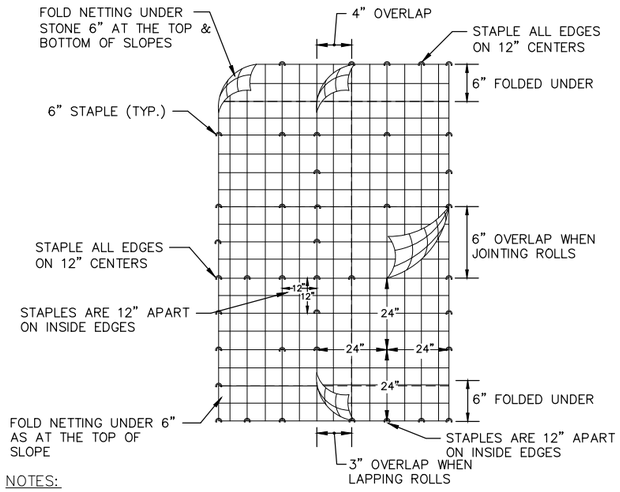


NOTE:

STABILIZED CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING NEW ROCK AND REMOVING "CLOGGED" ROCK AS NECESSARY. A STOCKPILE OF ROCK MATERIAL WILL BE STORED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

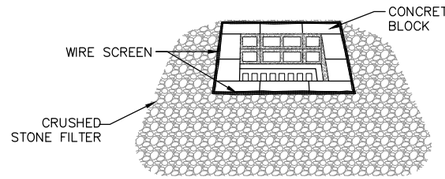


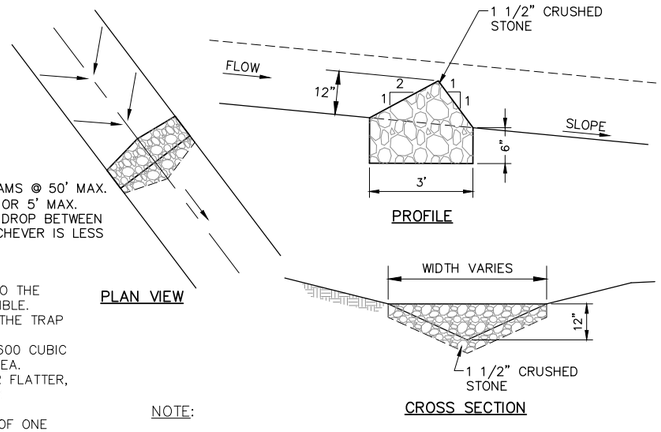
NOTES:

1. NO STAPLES TO BE OVER 24" APART CENTER TO CENTER
2. MATTING SHALL CONSIST OF ?WILDLIFE FRIENDLY? OPTIONS SUCH AS NORTH AMERICAN GREEN SC150BN, AMERICAN EXCELSIOR COMPANY AEC PREMIER COCONUT FIBRENET, EAST COAST EROSION BLANKETS, LLC ECC-2B OR EQUIVALENT. WELDED PLASTIC AND PHOTO-BIODEGRADABLE PLASTIC SHALL NOT BE USED.

MULCH NETTING INSTALLATION

NOT TO SCALE



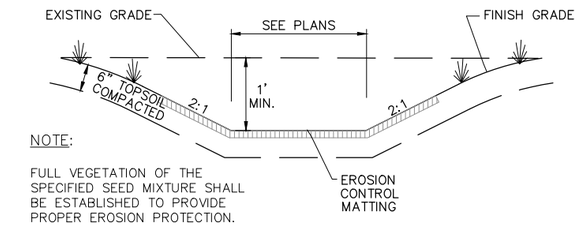


NOTE:

AN ALTERNATE MAY UTILIZE A PIECE OF SILT FENCE ON THE DOWNSTREAM END OF THE CHECK DAM AT THE DISCRETION OF THE EROSION CONTROL PLAN PREPARER.

STONE GRADE STABILIZATION (CHECK DAM) STRUCTURES

NOT TO SCALE

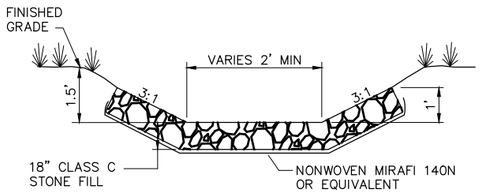


NOTE:

FULL VEGETATION OF THE SPECIFIED SEED MIXTURE SHALL BE ESTABLISHED TO PROVIDE PROPER EROSION PROTECTION.

GRASS-LINED SWALE

NOT TO SCALE



NOTES:

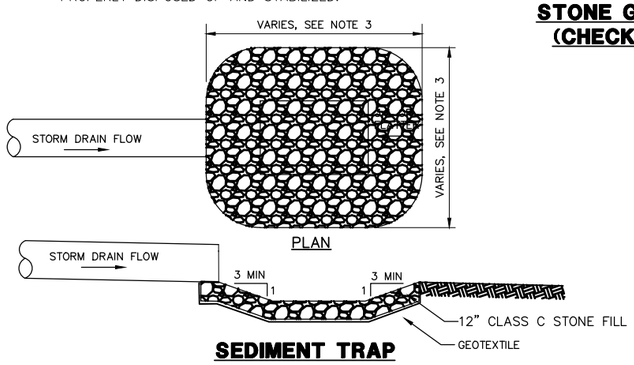
1. STONE APRONS USE SIMILAR DIMENSIONS (MIN. 10' LENGTH).
2. ALL STONE FILL SHALL MEET NHDOT STANDARDS.

STONE-LINED SWALE

NOT TO SCALE

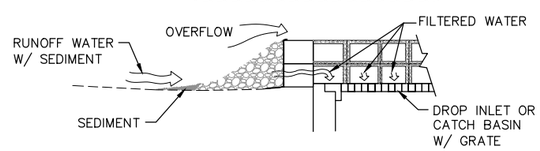
NOTES:

1. SEDIMENT TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.



SEDIMENT TRAP

NOT TO SCALE



BLOCK & GRAVEL DROP INLET/CATCH BASIN (SEDIMENT FILTER) INLET PROTECTION

NOT TO SCALE

GENERAL NOTES:

1. SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND HALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED.
2. PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT AT THE LIMITS OF CLEARING.

WETLAND IMPACT AND EROSION CONTROL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
PORTSMOUTH, NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Erosion Control Details

SCALE: AS SHOWN	DESIGN: SJS	EPSC-2
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP/BRC	DATE: MAY 2026	13 OF 13

TIME EXTENSION AGREEMENT FOR WETLANDS PERMIT APPLICATION REVIEW

Water Division/Land Resources Management
Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A:3, XIV(a)(2)-(4)/ Env-Wt 312.05(d)-(f)

APPLICANT'S NAME: Peter Rice, DPW **TOWN NAME:** Portsmouth

SECTION 1 – APPLICABILITY

What kind of extension are you requesting/ agreeing to?

☒ A time extension for the review of a ***pending*** wetlands permit application. In other words, a time extension for an application for which a permit has not been issued or denied. Skip to section 2.

☐ An extension of the expiration date of a wetlands permit. **STOP!** You cannot use this form, but you can use the "Request for Extension of Wetlands or Shoreland Permit".

SECTION 2 – APPLICATION INFORMATION (Env-Wt 312.05(d))

NHDES file number: 2025-00388

SECTION 3 – REQUESTOR INFORMATION

Select the party requesting the extension:

☒ Applicant/ agent.

☐ NHDES.

SECTION 4 – EXTENSION INFORMATION FROM NHDES (RSA 482-A:3, XIV(a)/ Env-Wt 312.05(d))

a. Reason(s) for the requested time extension:
Drainage design requires revisions.

b. If applicable, information that will be provided by the applicant if the time extension is signed by all parties (list all pending items requested by NHDES in a Request for More Information):
Application amendment

c. If applicable, date by which the above-referenced information will be provided (PROVISION DATE):
3/15/26

SECTION 5 – REQUIRED SIGNATURE (RSA 482-A:3, XIV(a)(2) and Env-Wt 312.05(e))

By signing below, the applicant/ authorized agent and NHDES, by mutual agreement authorized under RSA 482-A:3, XIV, agree to extend the time for NHDES to render a decision on the Application until (check one):

■ 30 calendar days following the above-listed PROVISION DATE, or 30 calendar days after the information requested in 4b, above, is received, whichever comes first.

☐ The following date:

If applicable, please submit the information requested in the Request for More Information to NHDES as soon as practicable. Include the file number with your submission. The applicant or authorized agent is expected to provide copies of all required information to the municipal clerk and others, in accordance with applicable statutes and regulations.

If all the requested information is not received by NHDES by PROVISION DATE, the Application will be denied in accordance with RSA 482-A:3, XIV(a)(2). If additional time beyond this deadline extension is required to prepare your response, additional time extensions may be requested in accordance with RSA 482-A:3, XIV(a)(2) and Env-Wt 312.05(d).

SIGNATURE FROM APPLICANT OR AUTHORIZED AGENT: Christine Perron	PRINT NAME LEGIBLY: Christine Perron, CWS	DATE: 9/29/25
SIGNATURE FROM NHDES (required under RSA 482-A:3, XIV(a)(3)-(4) only):	PRINT NAME LEGIBLY:	DATE:

PORTSMOUTH
20258

NHDES Standard Dredge & Fill Application



PREPARED BY:

McFARLAND JOHNSON

Peverly Hill Road Reconstruction

CITY OF PORTSMOUTH

PEVERLY HILL ROAD RECONSTRUCTION PROJECT

NHDES STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

NOVEMBER 2024

City of Portmouth
Department of Public Works
680 Peverly Hill Road
Portsmouth, NH 03801

McFARLAND JOHNSON

53 Regional Drive
Concord, NH 03301

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NHDES PRIME WETLAND WAIVER

NHDES WETLANDS RULE WAIVER

WETLAND FUNCTIONS AND VALUES EVALUATION FORMS

TAX PARCELS AND ABUTTERS

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NHFG WILDLIFE CORRESPONDENCE

USFWS OFFICIAL SPECIES LIST

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NHDES Standard Dredge and Fill Wetlands Permit Application Form

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: City of Portsmouth **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?	(●) Yes ( ) No
Does the property contain a PRA? If yes, provide the following information:	(●) Yes ( ) No
• 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.	( ) Yes (●) No
• Protected species or habitat? Natural Communities: High salt marsh, intertidal flat, low salt marsh, salt marsh system. Species: Dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, Blanding's turtle ○ If yes, species or habitat name(s): ○ NHB Project ID #: NHB24-1272	(●) Yes ( ) No
• Bog?	( ) Yes (●) No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?	( ) Yes (●) No
• Designated prime wetland or duly-established 100-foot buffer?	(●) Yes ( ) No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	(●) Yes ( ) No
Is the property within a Designated River corridor? If yes, provide the following information: • Name of Local River Management Advisory Committee (LAC): n/a • A copy of the application was sent to the LAC on Month: Day: Year:	( ) Yes (●) No

For dredging projects, is the subject property contaminated? • If yes, list contaminant: N/A	○ Yes ◉ No
Is there potential to impact impaired waters, class A waters, or outstanding resource waters?	○ Yes ◉ No
For stream crossing projects, provide watershed size (see WPPT or Stream Stats): N/A	

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 Peverly Hill Road Reconstruction Project in the City of Portsmouth includes reconstruction improvements of the roadbed, construction of an improved stormwater system, and narrowing of the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared-use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The purpose of the project is to improve stormwater management as well as roadway safety, and to increase bicycle and pedestrian access. The project limits extend from NH Route 33 (Middle Road) to the intersection with West Road to tie into improvements completed as part of the Yoken's Plaza Development near US Route 1. The total project length is approximately 5,100 feet. See attached project description for additional details.

The proposed road reconstruction will require impacts to wetlands and prime wetland buffers for erosion control measures and stormwater storage. The following wetland impacts are anticipated: 4,230 square feet (SF) of permanent wetland impacts (310 SF are Prime Wetland), 2,443 SF of temporary wetland impacts (180 SF are Prime Wetland), 10,152 SF of permanent undeveloped tidal buffer zone (TBZ) impacts and 2,190 SF of temporary undeveloped TBZ impacts.

SECTION 3 - PROJECT LOCATION

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

ADDRESS:	Peverly Hill Road between US Route 1 and NH Route 33
TOWN/CITY:	Portsmouth
TAX MAP/BLOCK/LOT/UNIT:	ROW
US GEOLOGICAL SURVEY (USGS) TOPO MAP WATERBODY NAME: ☐ N/A	Sagamore Creek
(Optional) LATITUDE/LONGITUDE in decimal degrees (to five decimal places):	43.05197, -70.77883

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: City of Portsmouth Department of Public Works, Attn: Peter Rice		
MAILING ADDRESS: 680 Peverly Hill Road		
TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS: phrice@cityofportsmouth.com		
FAX:	PHONE: (603) 427-1530	

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))

☐ N/A

LAST NAME, FIRST NAME, M.I.: Perron, Christine		
COMPANY NAME: McFarland-Johnson, Inc.		
MAILING ADDRESS: 53 Regional Drive		
TOWN/CITY: Concord	STATE: NH	ZIP CODE: 03301
EMAIL ADDRESS: cperron@mjinc.com		
FAX:	PHONE: 603-225-2978	

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

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.

☒ 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):

Env-Wt 400: Wetland boundaries and the ordinary high water/top-of-bank of water courses located within the project corridor were delineated in September and November 2017 and confirmed in March and April 2024. Wetlands and surface waters have been classified using the USFWS (Cowardin et al.) Wetland Classification System. There are Priority Resource Areas within the project area, including Prime Wetlands with 100-foot buffer, as well as Tidal Buffer Zone. Based on the resource classifications and proposed permanent and temporary impacts to wetlands, the proposed project is classified as a Major impact project.

Env-Wt 500: The proposed project falls under Env-Wt 527 Public Highways. The proposed project has been designed in accordance with the criteria specified in Env-Wt 527.04 and is consistent with RSA 482-A:1, 483, 483-B, 485-A, and 212-A. The purpose of the proposed project is to improve the road condition, stormwater management, and bicycle and pedestrian facilities along Peverly Hill Road between US Route 1 and NH Route 33. The project includes reconstruction of the roadbed, construction of an improved stormwater system, and narrowing of the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a 10-foot wide shared-use path on the south side of the roadway, and a 5-foot-wide pedestrian sidewalk on the north side of the roadway. Five stormwater treatment areas will be constructed.

Env-Wt 600: A portion of the project falls within an undeveloped TBZ and impacts within the TBZ will be 10,152 SF. Impacts will be limited to the construction of a proposed gravel wetland. This stormwater treatment area will provide treatment for roadway runoff, which will ensure that water quality within Sagamore Creek is not impacted by roadway infrastructure. The primary functions and values of the TBZ are to help protect water quality of the adjacent tidal wetlands. The proposed gravel wetland will serve the same purpose as the prime wetland buffer. Additionally, the buffer will remain vegetated following construction. The area of disturbance will be seeded and plantings will be provided around the gravel wetland. For these reasons, a request to waive the requirement for mitigation of impacts to TBZ is included in this application.

Env-Wt 700: There are Designated Prime Wetlands within the proposed project; a portion of the project takes place within the prime wetland as well as the 100-foot buffer. A waiver for buffer impact is included in this application. The project will not result in the significant net loss of any of the values set forth in RSA 482-A:1.

Env-Wt 900: N/A - The project does not involve stream crossings.

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/rivers, 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	3685		☐	2085		☐
	Scrub-shrub Wetland	196		☐	119		☐
	Emergent Wetland	39		☐	59		☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland	310		☐	180		☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface	Intermittent / Ephemeral Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond			☐			☐
	Docking - Lake / Pond			☐			☐
	Docking - River			☐			☐
Banks	Bank - Intermittent Stream			☐			☐
	Bank - Perennial Stream / River			☐			☐
	Bank / Shoreline - Lake / Pond			☐			☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)	10152		☐	2190		☐
	Previously-developed TBZ			☐			☐
	Docking - Tidal Water			☐			☐
TOTAL		14,382			4,633		

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): 19015	SF	× $0.40 =	$ 7606
Seasonal docking structure:	SF	× $2.00 =	$
Permanent docking structure:	SF	× $4.00 =	$
Projects proposing shoreline structures (including docks) add $400 =			$
		Total =	$ 7606
The application fee for minor or major impact is the above calculated total or $400, whichever is greater =			*$* 7606

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: PHR	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: PHR	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: PHR	The signer understands that: • The submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 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: PHR	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): Peter Rice	PRINT NAME LEGIBLY: Peter Rice	DATE: 2/4/25
SIGNATURE (APPLICANT, IF DIFFERENT FROM OWNER):	PRINT NAME LEGIBLY:	DATE:
SIGNATURE (AGENT, IF APPLICABLE): Christine Perron	PRINT NAME LEGIBLY: Christine Perron	DATE: 11/8/24

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”.

Supplemental Project Description

Supplemental Project Description

The proposed project consists of reconstructing an approximately 1-mile section of Peverly Hill Road between West Road and Middle Road (NH Route 33) in Portsmouth, New Hampshire**.** Peverly Hill Road is a primary route for vehicles, bicyclists and pedestrians traveling to and from NH Route 33 and Interstate 95 to the west and Lafayette Road (US Route 1), Mirona Road, and Banfield Road to the east. The project area is characterized by a mix of land uses, including residential, business, commercial, industrial, and recreational and conservation lands. Peverly Hill Road also serves as a connector route to numerous recreation sites in this section of the City of Portsmouth.

The purpose of the project is to enhance safety for all modes of travel (vehicles, bicyclists, and pedestrians) in conformance with the City of Portsmouth's Complete Street Policy adopted in 2013. The need for the project is demonstrated by a lack of bicycle and pedestrian accommodations within the project area, through which motor vehicles travel at high rates of speed. There are also several locations with sight distance restrictions and drainage problems along the roadway that contribute to safety issues.

The existing roadway is a two-lane road connecting NH Route 33 and Interstate 95 to US Route 1. According to the latest traffic data, the average annual daily traffic (AADT) volume on Peverly Hill Road through the project area is 8,800 vehicles per day. The road does not currently have adequate drainage infrastructure, which results in areas of ponding on the travel lanes and erosion. The width of the existing paved roadway varies between 26 feet and 30 feet with a variable width gravel shoulder in many places. Auxiliary turn lanes are present at the intersection of Banfield Road and Mirona Road and at the intersection of Middle Road (NH Route 33). The majority of the roadway is uncurbed with small sections of sloped granite curb approaching Middle Road and another section from the intersection of Banfield and Mirona Roads east to the driveway of the Portsmouth Department of Public Works (DPW) located at 680 Peverly Hill Road. The existing condition of the roadway pavement is in poor condition with some signs of cracking rutting, and delamination.

There is approximately 1,200 feet of existing concrete sidewalk on the north side of the roadway that starts at the YMCA building (550 Peverly Hill Road) and continues east through the signalized intersection of Banfield and Mirona Roads to a point approximately 100 feet east of the DPW driveway. There is also sidewalk from the intersection of Peverly Hill Road and Middle Road to Sage Lane on the south side of the roadway. Two crosswalks are located within the project limits at the signalized intersections at Banfield and Mirona Roads and Middle Road.

Proposed Action

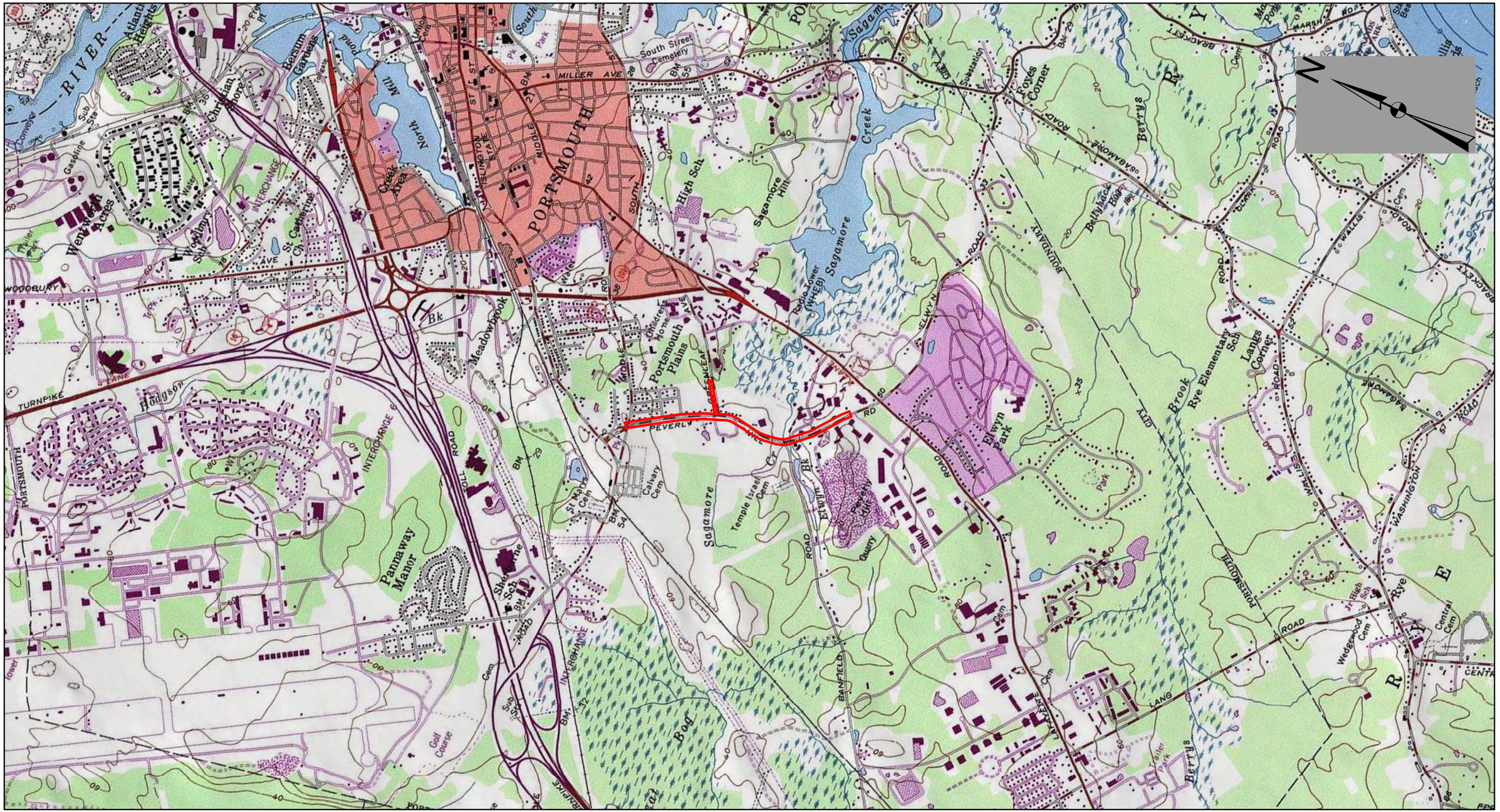
The proposed action would involve installing granite curb along both sides of Peverly Hill Road to provide a narrowed roadway cross section with a defined pavement edge. The roadway would be narrowed to two 11-foot travel lanes with 2-foot shoulders. A 10-foot shared use path with a 4-foot wide landscaped strip is proposed on the south side of Peverly Hill Road, and a 5.5-foot wide concrete sidewalk is proposed on the north side. The sidewalk on the north side of Peverly Hill Road would allow pedestrians to avoid crossing the roadway directly from their homes or business to access a safe pedestrian accommodation. The proposed shared use path and sidewalk would be constructed to meet ADA standards. Any existing sidewalks or ramps that are to remain that do not meet ADA Standards would be upgraded.

The existing auxiliary lanes would be maintained. In addition, the work would include reconstruction of the existing pavement surface and installation of a closed drainage system and water quality treatment.

The project will result in an increase in impervious of approximately 55,600 SF. There are five proposed BMPs for stormwater treatment, which will treat runoff from approximately 95% of new pavement. The project is proposing two sediment basins, two gravel wetlands, and an infiltration basin. Deep sump catch basins will also be used for pretreatment in off-line catch basins. The project as proposed meets Alteration of Terrain standards.

Proposed work will be primarily located within existing roadway right-of-way. However, strip right-of-way acquisitions and temporary construction easements will be necessary from privately-owned and publicly owned lands adjacent to the corridor. Easements will be secured over the next year and will be in place prior to construction.

Figure 1 – USGS Location Map





CITY OF PORTSMOUTH, NH

PEVERLY HILL ROAD RECONSTRUCTION PROJECT

USGS LOCATION MAP

SCALE :	DATE :	FIGURE :
1 " = 2,000 '	AUGUST 2024	1

McFarland Johnson

M:\18082.01 Peverly Hill Road Phase 2\Draw\GIS\1.0 Peverly Hill Road USGS.mxd

Attachment A: Minor and Major Projects

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: **Peter Rice** **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.

DUE TO THE LOCATION OF PEVERLY HILL ROAD AND ASSOCIATED INFRASTRUCTURE, THERE ARE LIMITED ALTERNATIVES FOR THE PROPOSED PROJECT. IMPACTS TO JURISDICTIONAL RESOURCE AREAS INCLUDING WETLANDS, STREAMS AND BANKS HAVE BEEN AVOIDED AND MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. THERE IS NO PRACTICABLE ALTERNATIVE THAT WOULD HAVE LESS ADVERSE IMPACT ON THE WETLANDS. THE WORK AS PROPOSED WILL REQUIRE TEMPORARY AND PERMANENT IMPACT ON WETLANDS, PRIME WETLANDS, AND PRIME WETLAND BUFFER. AT THE NORTHERN END OF THE PROJECT, IMPACTS WILL BE TO FORESTED FRESHWATER WETLANDS RESULTING FROM SLOPE AND DRAINAGE WORK. IMPACTS TO PRIME WETLANDS TO THE SOUTH OF THE PROJECT IN THE VICINITY OF BANFIELD ROAD AND SAGAMORE CREEK WILL ALSO RESULT FROM SLOPE AND DRAINAGE WORK.

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.

N/A - The proposed project does not involve any impacts to tidal or non-tidal marshes

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 project will maintain hydrologic connections between adjacent wetlands and streams. Impacts are limited to the perimeter of wetland systems and will not result in fragmentation of wetlands.

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.

Wetland impacts have been avoided and minimized to the maximum extent practicable. The proposed project is not anticipated to impact any exemplary natural communities, vernal pools, protected species and habitat, documented fisheries, and/or habitat and reproduction areas for species of special concern. Coordination with the NH Natural Heritage Bureau, NH Fish and Game, and the US Fish and Wildlife Service has occurred. Measures will be implemented to avoid or minimize impacts to species of concern. Appropriate sediment and erosion controls will be implemented throughout construction to avoid detrimental water quality impacts. Avoidance and minimization measures include refining and steepening roadway slopes to specifically avoid and minimize wetland and stream impacts. Stormwater treatment BMPs have also been incorporated into the design in order to treat runoff from additional pavement surfaces, thereby ensuring water quality of surface waters in the vicinity is maintained.

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 project will improve pedestrian and bicycle access and safety. There will be no impacts to public commerce or navigation.

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.

NA - The project will not impact floodplain wetlands.

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 project will not impact riverine forested wetland systems. There are two locations of impacts to scrub-shrub wetlands and impacts have been minimized to the maximum extent possible. One location is at a small pocket of a PSS wetland located in the Prime Wetland buffer in a small island created by the Banfield Road intersection with Peverly Hill Road. There will be 196 SF of permanent impact along the edge of the wetland and 119 SF of temporary impact. The second location of impacts to a scrub-shrub marsh is within the Prime Wetland complex north of Banfield Road on the west side of Peverly Hill Road. This wetland is adjacent to Sagamore Creek and is associated with wetland number 6 in the City's prime wetland inventory. The project will result in 310 SF of permanent impact and 180 SF of temporary impact to this PSS wetland along its border with Peverly Hill Road.

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 wetland impacts are limited to the perimeter of wetlands adjacent to the existing roadway. The project will not result in impacts that would be detrimental to drinking water supplies or aquifer levels. Appropriate sediment and erosion controls will be implemented throughout construction to avoid detrimental water quality impacts.

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 proposed wetland impacts are limited to the perimeter of wetlands adjacent to the existing roadway. The project will not result in impacts to stream channels. Appropriate sediment and erosion controls will be implemented throughout construction. Avoidance and minimization measures include refining and steepening roadway slopes to specifically avoid and minimize wetland and stream impacts. Stormwater treatment BMPs have also been incorporated into the design in order to treat runoff from additional pavement surfaces, thereby ensuring water quality of surface waters in the vicinity is maintained.

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.

NA - The project will not require shoreline structures or result in any impact to surface waters.

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.

NA - The project will not require docking or result in any impact to surface waters

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.

NA - The project will not require shoreline structures or result in any impact to surface waters

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.

NA - The project will not require shoreline structures or result in any impact to surface waters

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.

NA - The project will not require shoreline structures or result in any impact to surface waters

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.

NA - The project will not require shoreline structures or result in any impact to surface waters or banks.

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: US Army Corps of Engineers New England District Highway Methodology Workbook Supplement, 1999 Edition
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: CHRISTINE J. PERRON, CWS
DATE OF ASSESSMENT: 9/6/2024
Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: ☐
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: ☒ Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.

NHDES Avoidance and Minimization Checklist and Narrative

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: **Peter Rice** **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, the purpose of the project is to improve road conditions, improve stormwater management, and enhance safety for all modes of travel.

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, access will be along Peverly Hill Road and Greenleaf Ave.

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.*

No, the purpose of the project is to improve the 1-mile stretch of the existing Peverly Hill Road between West Road and Middle Road.

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?

Due to the location of Peverly Hill Road and associated infrastructure, there are limited alternatives for the proposed project. Impacts to jurisdictional resource areas including wetlands, streams and banks have been avoided and minimized to the maximum extent practicable. There is no practicable alternative that would have less adverse impact on the wetlands. The work as proposed will require temporary and permanent impact on wetlands and prime wetland buffer. At the northern end of the project, impacts will be to forested freshwater wetlands resulting from slope and drainage work. Impacts to prime wetlands to the south of the project in the vicinity of Banfield Road and Sagamore Creek will also result from slope and drainage work.

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*.

Functional assessment method used:

US Army Corps of Engineers New England District Highway Methodology Workbook Supplement, 1999 Edition

NHDOT Natural Resource Agency Coordination Meeting Minutes

BUREAU OF ENVIRONMENT
CONFERENCE REPORT

SUBJECT: NHDOT Monthly Natural Resource Agency Coordination Meeting
DATE OF CONFERENCE: August 21, 2024
LOCATION OF CONFERENCE: Virtual meeting held via Zoom

ATTENDED BY:

NHDOT
Andrew O'Sullivan
Jon Evans
Mark Hemmerlein
Leah Savage

ACOE
Mike Hicks

USCG
Absent

EPA
Jean Brochi

NHDES
Karl Benedict
Mary Ann Tilton
Eben Lewis
Chris Williams

NHB
Madeline Severance

NH Fish & Game
Mike Dionne
Jennifer Buchanan

Federal Highway
Jamie Sikora

US Fish & Wildlife
Absent

NH Transportation & Wildlife Workgroup
Absent

Consultants/ Public Participants
Christine Perron
Brian Colburn
Dave Defosses

PRESENTATIONS/ PROJECTS REVIEWED THIS MONTH: *(minutes on subsequent pages)*

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Portsmouth, 20258 (X-A002(061)): 2

Finalize Meeting Minutes

Finalized and approved the July 17, 2024 meeting minutes.

Portsmouth, 20258 (X-A002(061)):

Christine Perron introduced the project, which will address an approximately 1-mile section of Peverly Hill Road between West Road and Middle Road (NH Route 33) in Portsmouth. The project was first discussed in November 2021. The purpose of today's meeting is to discuss proposed wetland impacts prior to submitting the permit application.

The project is a municipally managed project through the Local Public Agency (LPA) Program. The purpose of the project is to improve road conditions, improve stormwater management and enhance safety for all modes of travel (vehicles, bicyclists, pedestrians). The roadway will be narrowed to provide two 11-foot travel lanes, 2-foot shoulders, a shared-use path on the south side, and a pedestrian sidewalk on the north side.

The project is adjacent to a number of wetlands and crosses the freshwater stretch of Sagamore Creek near Banfield Road, which is a tributary to a large estuary and exemplary natural community. There will also be some work along Greenleaf Avenue, which is adjacent to this estuary. The entire Sagamore Creek wetland complex is a Prime Wetland with a 100 foot buffer. The exemplary natural communities associated with Sagamore Creek are all within the estuary, along with the associated plant species documented by the Natural Heritage Bureau. Blanding's turtle has been documented in the vicinity of the project and there will be continued coordination with NHFG to incorporate minimization measures. The lead federal agency for the project is FHWA and consultation on northern long-eared bat and likely tricolored bat will be carried out through FHWA.

The project will result in an increase in impervious of approximately 55,600 SF. There are five proposed BMPs for stormwater treatment, which will treat runoff from approximately 95% of new pavement.
As a municipal project, an Alteration of Terrain Permit will be required. A pre-application meeting was held for AOT and it was confirmed that the proposed treatment will meet AOT standards.

The project will result in approximately 4,300 SF of permanent wetland impacts and 2,500 SF of temporary wetland impacts. Impacts to the prime wetland buffer adjacent to Greenleaf Avenue will be approximately 10,000 SF. There are three locations of proposed impacts. The only impacts at Greenleaf Avenue are to the prime wetland buffer, which is also a tidal buffer zone. There will be no impacts to tidal wetlands.

At the northern end of the project, impacts will be to forested freshwater wetlands resulting from slope and drainage work. Impacts in the vicinity of Banfield Road and Sagamore Creek will occur in two freshwater scrub-shrub wetlands. One wetland is part of the prime wetland complex just to the north of Banfield Road. The second wetland is located in the island between Banfield and Peverly Hill Roads. This wetland is not part of the prime wetland complex, but is within the prime wetland buffer. Work within the upland 100' prime wetland buffer will consist of slope work along the roadway footprint and drainage work. Non-wetland impacts within this buffer have not been

quantified. Since the buffer in this area is developed and associated with the roadway footprint, a waiver for buffer impacts in this area is proposed.

The third location of proposed impacts is located along Greenleaf Avenue. There are no wetland impacts in this area and the project will not impact tidal wetlands. The only impacts along Greenleaf Avenue will be to the upland 100' prime wetland buffer. This area is also an undeveloped tidal buffer zone. The impacts here are associated with this proposed stormwater treatment BMP. While the BMP does represent an impact, the area will still remain undeveloped.

Of the total proposed permanent impacts to freshwater wetlands (4,314 SF), approximately 8 SF will be within a prime wetland. Permanent impacts within the undeveloped tidal buffer zone/prime wetland buffer will be 10,152 SF. Input on the need for mitigation for all wetland impacts and tidal buffer zone was requested.

Construction of the project is currently anticipated to start in late 2025. The wetland permit application will be submitted in September.

Karl Benedict noted that mitigation would be required for permanent impacts but said he would defer to MaryAnn Tilton and Eben Lewis. He also noted that a waiver for impacts to the developed upland prime wetland buffer would need to identify the wetland functions that were noted in the prime wetland designation. It wasn't clear to him if ARM Fund payments were allowed for prime wetland impacts. Andy O'Sullivan stated that he thought there was a recent legislative change that allowed for the use of ARM Fund payments, and a recent NHDOT project utilized an in-lieu fee payment for prime wetland impacts.

Mary Ann Tilton noted that the recent NHDOT project was allowed to make an ARM payment for impacts to sand dunes. NHDES has received legal guidance on the use of ARM payments for prime wetlands. The applicant needs to explain why the wetland was designated as prime and a finding of no significant net loss of functions and values needs to be made.

Eben Lewis reiterated that prime wetland impacts do require mitigation and an in lieu fee is allowable. He said that the application would need to parse out impacts in undeveloped tidal buffer zone vs developed vs prime wetland buffer that's already developed.

Chris Williams asked if the project would require an Individual Permit from the Corps. C. Perron answered that impacts would be below the threshold for an Individual Permit. C. Williams noted that a federal consistency review would be required since the project is federally funded. C. Perron said that a consistency review was completed during the NEPA phase.

Mike Dionne noted that, with the potential presence of Blanding's turtle, Fish & Game would prefer construction in winter and would prefer winter tree clearing for minimizing impacts to bats.

Madeline Severance noted that some of the plants listed in the NHB review could occur along the high water line and she asked for confirmation that there would be no impacts at the high water line. C. Perron confirmed this. M. Severance responded that suitable habitat for the species of concern would not be impacted and that standard erosion control measures should be utilized to protect the estuary during construction.

Mike Hicks asked if the tidal buffer zone is all upland. C. Perron confirmed that it is all upland. M. Hicks noted that, in that case, wetland impacts would be below the 5,000 SF mitigation threshold and the Corps would not be requiring mitigation.

Jean Brochi had no comments.

Jamie Sikora asked if the project was a Programmatic Categorical Exclusion or an individual Categorical Exclusion. Jon Evans responded that is was Programmatic, and he also confirmed that the coastal zone consistency review was completed in February 2022.

NHDES Prime Wetland Waiver

PRIME WETLAND WAIVER
FORESTRY AND OTHER ACTIVITIES
Water Division/Land Resources Management
Wetlands Bureau

RSA/Rule: RSA 482-A:11/ Env-Wt 706

APPLICANT LAST NAME, FIRST NAME, M.I.: City of Portsmouth, attn: Pe

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

As provided in RSA 482-A:11, IV(b)(1), to be eligible for the Forestry Statutory Permit-by-Notification (Forestry SPN), a property owner must obtain a waiver to perform any forest management work and related activities in the forested portion of a designated **prime wetland*** or **duly-established 100-foot buffer†** from the department. *For a waiver request for Forestry Activities within a designated prime wetland or duly-established 100-foot buffer, please complete Part I of this form.*

As provided in RSA 482-A:11, IV(c), a property owner may request a waiver from the department to perform work not addressed above within a portion of any **duly-established 100-foot buffer†** of a prime wetland on his or her property. Please note that waivers for such activities may only be requested for work within a duly-established 100-foot buffer, not for work within prime wetlands. *For a waiver request for Activities Other than Forest Management within a duly-established 100-foot buffer, please complete Part II of this form.*

A waiver request for work in a prime wetland or duly-established 100-foot buffer must be submitted to the department at the same time as a notification for an SPN or other application, as applicable.

***Prime Wetlands**: Any contiguous areas falling within the jurisdictional definitions of RSA 482-A:2, X and RSA 482-A:4 that, because of their size, unspoiled character, fragile condition, or other relevant factors, make them of substantial significance (482-A:15, I-a).

†Duly-Established 100-foot Buffer: The buffer recognized in RSA 482-A:11, IV for prime wetlands designated on or after September 11, 2009 but before August 17, 2012 (Env-Wt 102.63).

PART I: WAIVER REQUEST FOR FORESTRY ACTIVITIES

SECTION 1 - REQUESTED WAIVER AND FILING FEE (Env-Wt 706.02(b)(3))

Check or money order for the applicable filing fee payable to "Treasurer – State of NH" (RSA 482-A:3, I(c)).

- ☐ $200 for a project that would otherwise qualify for a Forestry SPN if it was not located in or near a designated prime wetland or duly-established 100-foot buffer.
- ☐ $500 for a minor impact project that does not otherwise qualify as minimum or major impact project.
- ☐ $1,250 for a major impact project classified regardless of prime wetlands designation.

SECTION 2 - PROPOSED WORK (Env-Wt 706.02(b); RSA 482-A:11, IV(b)(1))

Provide a brief written description of the work to be performed.

SECTION 3 - PRIME WETLANDS VALUES (Env-Wt 706.02(b); RSA 482-A:11, IV(b)(1))

Provide a list of the prime wetlands values as identified by the municipality when the prime wetland or duly-established 100-foot buffer was designated. Demonstrate that the project will not create a significant net loss of these wetland values.

SECTION 4 - REQUIRED ATTACHMENTS (Env-Wt 706.02; RSA 482-A:11, IV(b)(1))

- ☐ A sketch of the property depicting the best approximate location of each prime wetlands/buffer in which work is proposed and the location of proposed work, including access roads.
- ☐ A copy of the notice of intent to cut, if applicable.
- ☐ Other information to demonstrate that there will be no significant net loss of wetland values identified by the municipality when the prime wetland/buffer was designated.

SECTION 5 - ADDITIONAL INSTRUCTIONS (Env-Wt 706.02; RSA 482-A:11, IV(b)(3))

☐ At the time the applicant submits the waiver request to the department, the applicant also shall submit, ***via certified mail***, a copy of the waiver request and all supporting documentation to the local governing body, the planning board, if any, and the conservation commission, if any, of the municipalities in which any prime wetlands/buffers associated with the application are located.

☐ If a prime wetland/buffer associated with the application extends into an abutting property, the property owner requesting the waiver shall provide a copy of the waiver request and all supporting documentation to the owner of that abutting property. The applicant shall send the notice required ***by certified mail***.

Please note:

- As provided in RSA 482-A:11, IV(b)(3), the department shall not issue a waiver for forestry activities prior to 14 days after receipt of the waiver request, provided however that a municipal conservation commission may request an extension on such waiver issuance, not to exceed 14 days, which the department shall grant if requested.
- As provided by RSA 482-A:11, IV(b)(2), the department shall not issue a waiver unless the department determines that there will be no significant net loss of wetland values as identified by the local conservation commission/local governing authority or in RSA 482-A:1.
- If the department determines that the criteria for issuing a waiver are met, the waiver shall be issued as part of the Forestry SPN or permit, as applicable.
- If the department is unable to determine, based on the information submitted, that the proposed work will not cause a significant net loss of wetland values, the department shall notify the applicant of what additional information is needed and establish a deadline in consultation with the applicant for the submission of the additional information.
- If the department determines that the project would not cause a significant net loss of wetland values if certain conditions were met, the department shall place such conditions on the waiver as are necessary to protect the prime wetland resource.
- Any waiver issued shall be valid for the term of the permit or SPN with which it is associated, but may be extended.

PART II: WAIVER REQUEST FOR ACTIVITIES OTHER THAN FOREST MANAGEMENT

SECTION 1 - REQUESTED WAIVER AND FILING FEE (Env-Wt 706.04(b)(5))

Check or money order for the applicable filing fee payable to "Treasurer – State of NH" (RSA 482-A:3, I(c)).

☐ $200 for projects that would otherwise qualify as a minimum impact project if it was not located in a designated prime wetlands buffer.

☐ $500 for a minor impact project that does not otherwise qualify as minimum or major impact project.

■ $1,250 for a major impact projects.

SECTION 2 - PROPOSED WORK (Env-Wt 706.04(b)(2))

Provide a written description of the work to be performed.

The Peverly Hill Road Reconstruction Project in the City of Portsmouth includes reconstruction improvements of the roadbed, construction of an improved stormwater system, and narrowing of the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared-use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The proposed project will require impacts to prime wetland buffers resulting from slope impacts and stormwater treatment. The following wetland impacts are anticipated: 4,230 square feet (SF) of permanent wetland impacts (310 SF are Prime Wetland), 2,443 SF of temporary wetland impacts (180 SF are Prime Wetland), 10,152 SF of permanent undeveloped tidal buffer zone (TBZ)/prime wetland buffer impacts and 2,190 SF of temporary undeveloped TBZ/prime wetland buffer impacts. Impacts within developed prime wetland buffer have not been quantified. These impacts will be located within the existing roadway footprint that is located within the prime wetland buffer.

SECTION 3 - PRIME WETLANDS VALUES (Env-Wt 706.04(b))

Provide a list of the prime wetlands values identified by the municipality when the prime wetlands associated with the buffer was designated. Demonstrate that the project will not create a significant net loss of these wetland values.

Prime wetlands values were determined by the City of Portsmouth Prime Wetland Analysis submitted January 2011.

Functions and values of the prime wetland adjacent to Greenleaf Ave consist of ecological integrity, finfish/shellfish/wildlife habitat, rare species habitat, educational/scientific value, and critical fisheries habitat.

Functions and values of the prime wetland adjacent to Banfield Road consist of ecological integrity, wildlife habitat, and educational/scientific value.

The project will not result in a net loss of these wetland functions and values. Impacts to the prime wetland buffer adjacent to Banfield Road will be limited to the footprint of the existing roadway. Impacts to the prime wetland buffer adjacent to Greenleaf Avenue will be limited to the construction of a proposed gravel wetland. This stormwater treatment area will provide treatment for roadway runoff, which will ensure that water quality within Sagamore Creek is not impacted by roadway infrastructure. One of the primary functions and values of the prime wetland buffer is to help protect water quality of the adjacent prime wetlands. The proposed gravel wetland will serve the same purpose as the prime wetland buffer. Additionally, the buffer will remain vegetated following construction. The area of disturbance will be seeded and plantings will be provided around the gravel wetland.

SECTION 4 - REQUIRED ATTACHMENTS (Env-Wt 706.04)

■ A sketch of the property depicting the best approximate location of the duly-established 100-foot buffer in which work is proposed and the location of proposed work, including access roads.

■ Other information to demonstrate that there will be no significant net loss of wetland values identified by the municipality when the prime wetlands associated with the buffer was designated.

SECTION 5 - ADDITIONAL INSTRUCTIONS (Env-Wt 706.04; RSA 482-A:11, IV(c))

■ At the time the applicant submits the waiver request to the department, the applicant also shall notify, ***by certified mail***, the local governing body, the planning board, if any, and the conservation commission, if any, of the municipalities in which the waiver is being sought that the waiver is being requested.

■ If the buffer associated with the application extends onto an abutting property, the property owner requesting the waiver shall provide notice that the waiver is being requested to the owner of that abutting property.

Please note:

- As provided in Env-Wt 706.05, the department shall not issue a waiver under Env-Wt 706.01(b) prior to 14 days after receipt of the waiver request, provided however that a municipal conservation commission may request an extension on such waiver issuance, not to exceed 14 days, which the department shall grant if and as requested.
- The department shall not issue a waiver unless the department determines that there will be no significant net loss of wetland values as identified by the local conservation commission/local governing authority and in RSA 482-A:1.
- If the department determines that the criteria for issuing a waiver are met, the waiver shall be issued as part of the SPN or permit, as applicable.
- If the department is unable to determine, based on the information submitted, that the proposed work will not cause a significant net loss of wetland values, the department shall notify the applicant of what additional information is needed and establish a deadline in consultation with the applicant for the submission of the additional information.
- If the department determines that the project would not cause a significant net loss of wetland values if certain conditions were met, the department shall place such conditions on the waiver as are necessary to protect the prime wetlands resource.
- Any waiver issued shall be valid for the term of the permit or SPN with which it is associated, but may be extended.

NHDES Wetlands Rule Waiver

WETLANDS RULE WAIVER OR DWELLING OVER WATER WAIVER REQUEST FORM

WATER DIVISION / LAND RESOURCES MANAGEMENT
WETLANDS BUREAU

RSA/Rule: RSA 482-A/ Env-Wt 204

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

A person may request a waiver to requirements in Rules Env-Wt 100-900 to accommodate situations where strict adherence to the requirements would not be in the best interests of the public or the environment. A person may also request a waiver of standard for existing dwellings over water pursuant to RSA 482-A:26, III (b).

SECTION 1 - PROJECT LOCATION INFORMATION (Env-Wt 204.03(c))			
ADDRESS: Peverly Hill Road	TOWN/CITY: Portsmouth	STATE: NH	ZIP CODE: 03801
TAX MAP/LOT NUMBER: ROW			
SECTION 2 - WAIVER REQUESTOR INFORMATION (Env-Wt 204.03(a))			
LAST NAME, FIRST NAME, M.I.: City of Portsmouth Department of Public Works, Attn: Peter Rice			
MAILING ADDRESS: 680 Peverly Hill Road			
TOWN/CITY: Portsmouth		STATE: NH	ZIP CODE: 03801
EMAIL ADDRESS (if available): or if not FAX NUMBER: phrice@cityofportsmouth.com		DAYTIME PHONE NUMBER: 603-427-1530	
SECTION 3 - APPLICANT INFORMATION (Env-Wt 204.03(b)) If request is being made on behalf of someone else, include the following information regarding the person being represented. If requestor is the applicant, check the following box and proceed to Section 4. ■ Requestor is the applicant.			
LAST NAME, FIRST NAME, M.I.:			
MAILING ADDRESS:			
TOWN/CITY:		STATE:	ZIP CODE:
EMAIL ADDRESS (if available): or if not FAX NUMBER:		DAYTIME PHONE NUMBER:	

SECTION 4 - WAIVER INFORMATION

SECTION 4A - WAIVER TO RULE Env-Wt 100-900

☐ N/A - If you are not requesting a rule waiver, check this box and proceed to Section 4b

Provide the number of the specific section of each rule for which a waiver is sought (Env-Wt 204.03(d)):

Env-Wt 605.03

Provide a complete explanation of why a waiver is being requested, including an explanation of the operational and economic consequences of complying with the requirement and, if the requested waiver would extend the duration of a permit, the reason(s) why the permit holder was not able to complete the project within the specified time (Env-Wt 204.03(f)(1)):

Env-Wt 605.03 requires compensatory mitigation for all impacts to tidal surface waters, tidal wetlands, the tidal buffer zone, or sand dunes, or any combination thereof, that are intended to remain when the proposed project is completed. The proposed project will result in 10,152 SF of permanent impact to an undeveloped upland tidal buffer zone (TBZ) adjacent to Sagamore Creek for the construction of a gravel wetland. This stormwater treatment area will provide treatment for roadway runoff, which will ensure that water quality within Sagamore Creek is not impacted by roadway infrastructure. The treatment area is also required for compliance with Alteration of Terrain requirements. There are no alternative locations for treatment. Mitigation in the form of an in-lieu fee would be approximately $80,000, a significant added cost to this public infrastructure project. Given this high cost, and because the only reason the TBZ will be impacted is for compliance with another state regulation (Alteration of Terrain), a waiver to the mitigation requirement is being requested.

If applicable, provide a complete explanation of the alternative that is proposed to be substituted for the requirement in Env-Wt, including written documentation or data, or both, to support the alternative (Env-Wt 204.03(g)):

One of the primary functions of the TBZ is to help protect water quality of the adjacent tidal wetlands. The proposed gravel wetland will serve the same purpose as the undeveloped TBZ. Additionally, the TBZ will remain vegetated following construction. The area of disturbance will be seeded and plantings will be provided around the gravel wetland.

SECTION 4B – DWELLING OVER WATERS WAIVER UNDER RSA 482-A:26, III(b).

■ N/A - If you are not requesting a standard waiver, check this box and proceed to Section 5)

Identify the specific standard to which a waiver is being requested (Env-Wt 204.03(e)):

RSA 482-A:

Provide a complete explanation of why a waiver is being requested, including a complete explanation of how the statutory criteria of RSA 482-A:26, III(b) will be met (Env-Wt 204.03(f)(2)):

SECTION 5 - ADDITIONAL WAIVER INFORMATION (Env-Wt 204.03(h); Env-Wt 204.03(i))
(applicable to Waivers of Rules *and* Standards under RSA 482-A:26, III(b))

Indicate whether the waiver is needed for a limited duration and, if so, an estimate of when the waiver will no longer be needed (Env-Wt 204.03(h)):

The duration of the waiver would be for the duration of the permit.

Provide a complete explanation of why the applicant believes that having the waiver granted will meet the criteria in Env-Wt 204.05 or 204.06, as applicable (Env-Wt 204.03(i)):

Granting the waiver will not result in an adverse impact on public safety or the environment. Granting the waiver would reduce the cost burden to a publicly funded infrastructure project. The work proposed in the TBZ is for the purpose of protecting the environment through treatment of stormwater runoff. The purposes and intent of RSA 482-A will be met if the waiver is granted.

SECTION 6 - REQUIRED CERTIFICATIONS (Env-Wt 204.04)

Initial each box and sign below to certify:

Initials: PRR	The information provided is true, complete, and not misleading to the knowledge and belief of the signer.
Initials: PRR	The signer understands that any waiver granted based on false, incomplete, or misleading information shall be subject to revocation; and

SECTION 7 - REQUESTOR SIGNATURE (Env-Wt 204.04)

SIGNATURE (APPLICANT): *	PRINT NAME LEGIBLY:	DATE:
[signature]	Peter Rice	2/4/25
SIGNATURE (REQUESTOR):	PRINT NAME LEGIBLY:	DATE:

*In lieu of an applicant signature, you may include a separate signed and dated authorization for the requestor to act on the person's behalf in connection with the request.

Wetland Functions and Values Evaluation Forms

Wetland Function-Value Evaluation Form

Total area of wetland Unknown Human made? no Is wetland part of a wildlife corridor? Yes or a "habitat island"? No

Adjacent land use Commercial, residential, forested Distance to nearest roadway or other development 5'

Dominant wetland systems present PUB/PEM1E/PFO1E 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? mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Stream A/ Wetlands B/C

Latitude 43.049991 Longitude -70.778760

Prepared by: CH Date 9/6/2024

Wetland Impact:
Type PEM/PFO Area unknown

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	N	2, 4, 7, 9		Wetlands are associated with/fringe wetlands of Sagamore Creek
Floodflow Alteration	Y	4, 5, 6, 8, 9, 10, 11, 13, 14, 15, 17, 18	X	Wetland is associated with Sagamore Creek; commercial and residential use adjacent to wetland
Fish and Shellfish Habitat	Y	2, 3, 4, 8, 10, 11, 14, 15, 16, 17	X	Sagamore Creek is contiguous with Piscataqua River and Atlantic Ocean
Sediment/Toxicant Retention	Y	1, 2, 3, 4, 7, 10, 16		Sediment/toxicant from nearby roadways and commercial areas may be trapped in wetland
Nutrient Removal	Y	2, 3, 4, 7, 8, 9, 10		Excess nutrients from surrounding lawns may be trapped by wetland
Production Export	N	1, 7, 12		No evidence of use by wildlife
Sediment/Shoreline Stabilization	Y	1, 2, 3, 4, 6, 7, 9, 12, 13, 14	X	Wetland borders Sagamore Creek; has potential to trap sediment
Wildlife Habitat	N	6, 8, 13		
Recreation	N	12		Limited potential for recreation
Educational/Scientific Value	N	11, 13		Limited potential for educational value
Uniqueness/Heritage	N	7, 10, 11, 12, 22		Limited potential for heritage value
Visual Quality/Aesthetics	N			Limited potential for aesthetic value
ES Endangered Species Habitat	Y		X	NHB identified dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, and Blanding's turtle within the vicinity
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland Unknown Human made? no Is wetland part of a wildlife corridor? yes or a "habitat island"? no

Adjacent land use Commercial, residential, forested Distance to nearest roadway or other development 5'

Dominant wetland systems present PSS1E 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? mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. D

Latitude 43.049478 Longitude -70.779129

Prepared by: CH Date 9/6/2024

Wetland Impact:
Type PSS Area Unknown

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	N	2, 7, 9		Wetlands are associated with/fringe wetlands of Sagamore Creek
Floodflow Alteration	Y	4, 5, 6, 8, 9, 10, 11, 13, 14, 15, 17, 18	X	Wetland is associated with Sagamore Creek; commercial and residential use adjacent to wetland
Fish and Shellfish Habitat	Y	2, 3, 4, 8, 10, 11, 14, 15, 16, 17	X	Sagamore Creek is contiguous with Piscataqua River and Atlantic Ocean
Sediment/Toxicant Retention	Y	1, 2, 3, 4, 7, 10, 16		Sediment/toxicant from nearby roadways and commercial areas may be trapped in wetland
Nutrient Removal	Y	2, 3, 4, 7, 8, 9, 10, 11, 13	X	Excess nutrients from surrounding lawns may be trapped by wetland
Production Export	N	1, 7, 12		No evidence of use by wildlife
Sediment/Shoreline Stabilization	Y	1, 2, 3, 4, 7, 9, 12, 13, 14	X	Wetland borders Sagamore Creek; has potential to trap sediment
Wildlife Habitat	N	6, 8, 13		
Recreation	N			Limited potential for recreation
Educational/Scientific Value	N			Limited potential for educational value
Uniqueness/Heritage	N			Limited potential for heritage value
Visual Quality/Aesthetics	N			Limited potential for aesthetic value
ES Endangered Species Habitat	Y			NHB identified dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, and Blanding's turtle within the vicinity
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland unknown Human made? no Is wetland part of a wildlife corridor? Yes or a "habitat island"? no

Adjacent land use Commercial, residential, forested Distance to nearest roadway or other development 5'

Dominant wetland systems present PFO1E 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? mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. E

Latitude 43.055898 Longitude -70.781134

Prepared by: CH Date 9/6/2024

Wetland Impact:
Type PFO1E Area unknown

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	N	2		Limited groundwater recharge potential
Floodflow Alteration	Y	1, 5, 6, 7, 8, 9		Some potential for flood runoff storage; ponded water present
Fish and Shellfish Habitat	N			Limited fish habitat
Sediment/Toxicant Retention	Y	1, 2, 4, 7		Sediment/toxicant from nearby roadways and commercial areas may be trapped in wetland
Nutrient Removal	Y	1, 3, 4, 5, 7, 8, 9, 10	X	Excess nutrients from surrounding lawns may be trapped by wetland
Production Export	Y	1, 2, 7, 12		Some potential for use by higher trophic level consumers
Sediment/Shoreline Stabilization	N	3, 4		Potential for sediment from nearby roadway; no watercourse present
Wildlife Habitat	Y	7, 8, 14, 15, 19, 20, 21	X	Wetland has potential to contain a high population of insects, amphibians and birds
Recreation	N	12		Limited potential for recreation
Educational/Scientific Value	N	13		Limited potential for educational value
Uniqueness/Heritage	N	10		Limited potential for heritage value
Visual Quality/Aesthetics	N	7		Limited potential for aesthetic value
ES Endangered Species Habitat	Y		X	NHB identified dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, and Blanding's turtle within the vicinity
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland Unknown Human made? no Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use Residential, forested Distance to nearest roadway or other development 5'

Dominant wetland systems present PFO1E 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? mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. F

Latitude 43.055451 Longitude -70.780126

Prepared by: CH Date 9/6/2024

Wetland Impact:
Type PFO Area Unknown

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	N	2, 15		Limited groundwater recharge potential
Floodflow Alteration	Y	5, 6, 7, 8, 9, 15		Some potential for flood runoff storage; ponded water present
Fish and Shellfish Habitat	N	1, 2		Limited fish habitat
Sediment/Toxicant Retention	Y	1, 2, 4, 7		Sediment/toxicants from nearby roadways and residential areas may be trapped in wetland
Nutrient Removal	Y	2, 3, 4, 5, 7, 8, 9, 10	X	Excess nutrients from surrounding lawns may be trapped by wetland
Production Export	Y	1, 2, 7, 12		Some potential for use by higher trophic level consumers
Sediment/Shoreline Stabilization	N	3, 4		Potential for sediment from nearby roadway; no watercourse present
Wildlife Habitat	Y	7, 8, 14, 15, 19, 20, 21	X	Wetland has potential to contain a high population of insects, amphibians and birds
Recreation	N	12		Limited potential for recreation
Educational/Scientific Value	N	13		Limited potential for educational value
Uniqueness/Heritage	N	10		Limited potential for heritage value
Visual Quality/Aesthetics	N	7, 9		Limited potential for aesthetic value
ES Endangered Species Habitat	Y		X	NHB identified dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, and Blanding's turtle within the vicinity
Other				

Notes:

* Refer to backup list of numbered considerations.

Wetland Function-Value Evaluation Form

Total area of wetland 3168 sq. ft Human made? no Is wetland part of a wildlife corridor? no or a "habitat island"? no

Adjacent land use Residential, Forested Distance to nearest roadway or other development 5'

Dominant wetland systems present PFO1E 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? mid

How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. G

Latitude 43.055899 Longitude -70.780762

Prepared by: CH Date 9/6/2024

Wetland Impact:
Type PFO Area

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	N	2, 10		Limited groundwater recharge potential
Floodflow Alteration	Y	5, 7, 8, 9, 15		Some potential for flood runoff storage; ponded water present
Fish and Shellfish Habitat	N			No fish habitat
Sediment/Toxicant Retention	Y	1, 2, 4		Sediment/toxicant from nearby roadways and commercial areas may be trapped in wetland
Nutrient Removal	Y	3, 4, 7, 8, 9, 11		Excess nutrients from surrounding lawns may be trapped by wetland
Production Export	N	1, 7		Limited potential for use by higher trophic level consumers
Sediment/Shoreline Stabilization	N	3, 4		Potential for sediment from nearby roadway; no watercourse present
Wildlife Habitat	N	8		Limited potential for wildlife habitat
Recreation	N	12		Limited potential for recreation
Educational/Scientific Value	N	16		Limited potential for educational value
Uniqueness/Heritage	N	10		Limited potential for heritage value
Visual Quality/Aesthetics	N	9		Limited potential for aesthetic value
ES Endangered Species Habitat	Y		X	NHB identified dwarf glasswort, marsh elder, saltmarsh agalinis, tundra alkali grass, and Blanding's turtle within the vicinity
Other				

Notes:

* Refer to backup list of numbered considerations.

Tax Parcels and Abutters



Project Area

Tax Parcels

Delineated Streams

Delineated Wetlands

0 500 1,000

Feet



CITY OF PORTSMOUTH, NH

PEVERLY HILL ROAD RECONSTRUCTION PROJECT

TAX PARCELS

SCALE :	DATE :	FIGURE :
1 " = 350 '	NOVEMBER 2024	2

McFarland Johnson

M:\18082.01 Peverly Hill Road Phase 2\Draw\GIS\Peverly Hill Road Tax Map_new.mxd

PORTSMOUTH 20258
LIST OF PROJECT ABUTTERS (PROPERTIES ABUTTING WETLAND IMPACTS ARE SHOWN IN BOLD)

Mapping number (Figure 2)	Abutter Name	Abutter address	Parcel ID
1	MCCANN FAMILY REVOCABLE TRUST MCCANN M A & J M D TRUSTEES	921 MIDDLE RD	0232-0117-0001
2	PAFFORD, SCOTT R	969 MIDDLE RD	0232-0116-0000
3	CITY OF PORTSMOUTH DPW	1 PLAINS AVE	0242-0002-0000
4	CITY OF PORTSMOUTH DPW	1 PLAINS AVE	0242-0002-0000
5	CITY OF PORTSMOUTH DPW	1 PLAINS AVE	0242-0002-0000
6	CITY OF PORTSMOUTH DPW	1 PLAINS AVE	0242-0002-0000
7	ROMAN CATHOLIC BISHOP OF MANCHESTER CHURCH OF IMMAC CONCEPTION	MIDDLE RD	0242-0005-0000
8	**See Attachment "Peverly Hill Road 0242-0004-0000 through 0242-0004-0056"**	**PEVERLY HILL RD**	**0242-0004-0000 through 0242-0004-0056**
9	B&B PROPERTIES LLC	968 MIDDLE RD	0232-0090-0000
10	FRITZ IAN P; NEWCOMER SUSAN M	942 MIDDLE RD	0232-0089-0000
11	MOSCA MICHAEL J	46 PEVERLY HILL RD	0232-0091-0000
12	INNES DYANNA L	78 PEVERLY HILL RD	0232-0092-0000
13	TARLETON NATHAN M; TARLETON SHERRI M	74 LEAVITT AVE	0232-0088-0000
14	BLACK KENNETH T	82 PEVERLY HILL RD	0232-0093-0000
15	**DIXON SUSAN L**	**106 LEAVITT AVE**	**0232-0087-0000**
16	**CITY OF PORTSMOUTH DPW**	**PEVERLY HILL RD**	**0232-0095-0000**
17	**ASRT LLC**	**138 LEAVITT AVE**	**0243-0050-0000**
18	**AJEI REAL ESTATE LLC**	**100 PEVERLY HILL RD**	**0243-0051-0000**
19	**CITY OF PORTSMOUTH DPW**	**PEVERLY HILL RD**	**0243-0052-0000**
20	**CITY OF PORTSMOUTH DPW**	**PEVERLY HILL RD**	**0243-0053-0000**

21	**NEW HOPE BAPTIST CHURCH**	**263 PEVERLY HILL RD**	**0242-0003-0000/ 0242-0003-000A-0000**
22	BOSA JOHN W; LOOR JOAN V; BEEBE MYCHAL	248 PEVERLY HILL RD; 248 PEVERLY HILL RD #1; 248 PEVERLY HILL RD #2	0243-0054-0000; 0243-0054-0001; 0243-0054-0002
23	MURRAY CURT F; MCGANN ERIN E	260 PEVERLY HILL RD	0243-0055-0000
24	CHILDRENS GARDEN PROPERTY LLC	290 PEVERLY HILL RD	0243-0056-0000
25	COLBURN DEAN A	287 PEVERLY HILL RD	0255-0009-0000
26	Peverly Hill Road 0255-0008-0000 through 0255-0008-0009	288 PEVERLY HILL RD	0255-0008-0000 through 0255-0008-0009
27	KELLEHER MARIE E REV TRUST KELLEHER MARIE E TRUSTEE	297 PEVERLY HILL RD	0255-0007-0000
28	JONES FAMILY REVOCABLE TRUST JONES DONALD E & MONA M TTEE	296 PEVERLY HILL RD	0243-0057-0000
29	SCHWARTZ JACOB H; DAVIS KRISTEN N	300 PEVERLY HILL RD	0243-0058-0000
30	TAPIA ZEIGLER ELIZABETH B; ZEIGLER BRYAN C	384 PEVERLY HILL RD	0243-0059-0000
31	STEVENS BOYD J STEVENS RHONDA H	303 PEVERLY HILL RD	0255-0006-0000
32	REIS THOMAS E & MARYBETH B REIS JAMES B & MEEGAN C	305 PEVERLY HILL RD	0255-0005-0000
33	FLEMING DONNA FLEMING SAROJ A	433 GREENLEAF AVE	0243-0008-0000
34	CROSBY LORIA A CROSBY CARL W JR	419 GREENLEAF AVE	0243-0007-0001
35	BLOUT MICHAEL J	404 GREENLEAF AVE	0243-0060-0000
36	SARGENT ADAM L LANTZ GRETCHEN M	394 GREENLEAF AVE	0243-0061-0000
37	CHAMBERLIN SUSAN W SCHERR ALBERT E IV	390 GREENLEAF AVE	0243-0062-0000
38	D'ANTONIO BENJAMIN	380 GREENLEAF AVE	0243-0063-0000
39	YAUN CHRISTOPHER D	360 GREENLEAF AVE	0243-0064-0000
40	KENICK JEAN	350 GREENLEAF AVE	0243-0065-0000
41	Greenleaf Ave 0243-0006-0000 through 0243-0006-S302	260 GREENLEAF AVE	0243-0006-0000 through 0243-0006-S302

42	**KRUPP JUSTIN KRUPP ELIZABETH M**	**375 GREENLEAF AVE**	**0243-0007-0000**
43	**MORAN FAMILY REV TRUST MORAN THOMAS J & JANINE E TT**	**401 GREENLEAF AVE**	**0243-0007-000A**
44	**WESTGATE MARK E WESTGATE MARIA L**	**407 GREENLEAF AVE**	**0243-0007-0002**
45	LIEN HSIU Y CHOE HYON S	423 PEVERLY HILL RD	0243-0009-0000
46	GALARNEAU THOMAS M GALARNEAU JESSICA A	437 PEVERLY HILL RD	0243-0010-0000
47	LEONARD STEVEN P	451 PEVERLY HILL RD	0243-0011-0000
48	SHORTILL KUMIKO ANEE	465 PEVERLY HILL RD	0243-0012-0000
49	535 PEVERLY HILL LLC	535 PEVERLY HILL RD	0244-0009-0000
50	**HETT WALTER D TRUST HETT WALTER D TRUSTEE**	**PEVERLY HILL RD**	**0255-0003-0000**
51	RUSSELL JULIA A REVO TRUST RUSSELL JULIA A TRUSTEE	515 PEVERLY HILL RD	0255-0004-0000
52	FRAZER LAURA	539 PEVERLY HILL RD	0244-0011-0000
53	ZAKHAROV EVGENIY V	541 PEVERLY HILL RD	0244-0012-0000
54	DOAN TONY ISHII JENNY G	575 PEVERLY HILL RD	0255-0003-0001
55	MACEACHERN CHARLES & SHERRY	545 PEVERLY HILL RD	0244-0010-000C
56	**YOUNG MENS CHRISTIAN ASSOC**	**550 PEVERLY HILL RD**	**0244-0010-000A**
57	**HETT WALTER D TRUST HETT WALTER D TRUSTEE**	**BANFIELD RD**	**0255-0002-0000**
58	**SEACOAST FAMILY Y**	**PEVERLY HILL RD**	**0244-0010-000B**
59	**GSG REALTY PORTSMOUTH LLC**	**1 MIRONA RD**	**0253-0007-0000**
60	BANFIELD ROAD LLC	15 BANFIELD RD	0254-0005-0000
61	MMCT REALTY LLC	2 MIRONA RD	0253-0006-0000
62	ALEXANDER NANCY H REVOC TRUST ALEXANDER NANCY H TRUSTEE	620 PEVERLY HILL RD	0254-0006-0000
63	PIKE INDUSTRIES INC	650 PEVERLY HILL RD	0254-0007-0000
64	BOURAS GROUP LLC	10 MIRONA RD	0253-0005-0001

65	20 MIRONA ROAD EXT LLC	20 MIRONA RD EXT	0253-0005-0000
66	CITY OF PORTSMOUTH; MCM ACQUISITION 2017 LLC	680 PEVERLY HILL RD	0254-0008-0000; 0254-0008-0001
67	DPH REALTY LLC	30 MIRONA RD EXT	0253-0004-0000
68	LIGHTHOUSE MANUFACTURING LLC	35 MIRONA RD	0252-0003-0000
69	JMK REALTY LLC	700 PEVERLY HILL RD	0252-0002-0010
70	YOKENS TOWNHOMES LLC	951 PEVERLY HILL RD	0252-0005-0000
71	DSM MB II LLC	1500 LAFAYETTE RD	0252-0002-0000
72	SELIGMAN ASSET TRUST RICE NORMAN TRUSTEE	18 MOFFAT ST	0243-0068-0000
73	HONEYMAN J BRADLEY HONEYMAN SARAH	26 MOFFAT ST	0243-0069-0000

0242-0004-0000 through 0242-0004-0056 Peverly Hill Road

Property ID	Site Address	Account	Owner Name	Owner Name 2	Owner Address	City	State	Zip
0242-0004-0000	83 PEVERLY HI	30759	PARSON WOODS INVESTMENTS LLC		11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0001	18 SAGE LN	54584	BARNES DANIEL J & NANCY D		18 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0002	24 SAGE LN	54585	DELUKE CAMILA & LOUIS JAMES		24 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0003	32 SAGE LN	54586	MARCELYNAS JOSEPH A & ANGELA J		32 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0004	40 SAGE LN	54587	134 PLEASANT ST LLC		PO BOX 853	NEW CASTLE	NH	03854
0242-0004-0005	46 SAGE LN	54588	PLOVANICH MOLLY E	TSUN ZHI YANG	46 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0006	54 SAGE LN	54589	RACZ JOSEPH J FAM REV TR	RACZ JOSEPH J TRUSTEE	54 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0007	58 SAGE LN	54590	DUBOIS GARY E & DIANE A		58 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0008	68 SAGE LN	54591	ROSEN ANDREW B	EVANS SHERRY	68 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0009	74 SAGE LN	54592	HART JUDY LIVING TRUST	HART JUDY TRUSTEE	74 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0010	84 SAGE LN	54593	MOHEDANO CASCADO DOMINGO	SANZ GALVEZ ISABEL	84 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0011	88 SAGE LN	54594	ROTZ ANDREW R RV TR (1/2 INT)	HOLZHAUER M F RV TR (1/2 INT)	88 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0012	98 SAGE LN	54595	BRITT AUSTIN PATRICK & SHAUNA		98 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0013	102 SAGE LN	54596	FERGUSON W & V LIVING TRUST	FERGUSON W D JR & V W TRUSTEES	102 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0014	112 SAGE LN	54597	MCDANIEL JAMES A III	MCDANIEL KATHLEEN	112 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0015	118 SAGE LN	54598	LEONARDI JOHN	DURAKOVIC MUBERA	118 SAGE LN UNIT	PORTSMOUTH	NH	03801
0242-0004-0016	126 SAGE LN	54599	BROWN FAMILY TRUST	BROWN THOMAS C & BONNIE L TT	126 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0017	130 SAGE LN	54600	BASILIERE ROBERT JAMES	BASILIERE JUDITH PEIRCE	130 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0018	140 SAGE LN	54601	TEBBENHOFF PETER H & KAREN L		140 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0019	144 SAGE LN	54602	VIVINETTO ANTHONY J & LISA A		144 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0020	150 SAGE LN	54603	KOBLINSKI REVOCABLE TRUST	KOBLINSKI PETER & DENISE TT	150 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0021	154 SAGE LN	54604	FITZGERALD CAROL A	FITZGERALD DANIEL JOHN	154 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0022	180 SAGE LN	54605	TWIN PINES REV TRUST OF 2023	GRENADER DENIS M & JOANIE TT	180 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0023	188 SAGE LN	54606	FALVEY MARY		188 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0024	190 SAGE LN	54607	LEEFMANS WREN FAM TR	LEEFMANS ERIC & WREN LYNN TT	190 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0025	198 SAGE LN	54608	STANFIELD BRIAN A & SARAH RUTH		198 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0026	202 SAGE LN	54609	VEALE PATRICK J & KAREN M		202 SAGE LN UNIT	PORTSMOUTH	NH	03801
0242-0004-0027	210 SAGE LN	54610	DUNBAR STUART		210 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0028	216 SAGE LN	54611	JELINEK WARREN FAM TRUST	JELINEK EDWARD R & MARY W TT	216 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0029	226 SAGE LN	54612	GUTER PATRICIA ANN TRUST	GUTER DONALD J & PATRICIA A TT	2501 M ST NW #20(	WASHINGTON	DC	20037
0242-0004-0030	230 SAGE LN	54613	LUCAS FAMILY TRUST OF 2018	LUCAS THOMAS F & KRISTINA L TT	230 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0031	240 SAGE LN	54614	BROWN CHARLES H JR	FRASER BROWN CYNTHIA	240 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0032	244 SAGE LN	54615	LITWAK FAMILY TRUST	LITWAK JAMES & CAROL TT	244 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0033	270 SAGE LN	54616	PARSON WOODS INVESTMENTS LLC		11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0034	274 SAGE LN	54617	PARSON WOODS INVESTMENTS LLC		11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0035	81 SAGE LN	54618	WHITNEY ROBERT DEAN	WHITNEY DANA MARIE	81 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0036	89 SAGE LN	54619	DIFRANCESCO WILLIAM & ANN		89 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0037	99 SAGE LN	54620	GREENE JOHN JR & ANNELLEN		99 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0038	103 SAGE LN	54621	HARLEY ADAM CHRISTIAN	NEVES DONNA LYNN	103 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0039	113 SAGE LN	54622	SWEENEY JOAN C		113 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0040	119 SAGE LN	54623	MARSHALL JAMES & CHRISTINA		43 GRAND MIRAMA	HENDERSON	NV	89011
0242-0004-0041	127 SAGE LN	54624	COATE THOMAS	STARLING COATE MARCY	127 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0042	131 SAGE LN	54625	CLEMENS J W 2024 TR (50% INT)	CLEMENS K E 2024 TR (50% INT)	131 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0043	141 SAGE LN	54626	CONWAY KEVIN J & KIM L		141 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0044	153 SAGE LN	54627	VALENTINE RICHARD J		153 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0045	171 SAGE LN	54628	MARCOTTE PETER E & JOANNE		171 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0046	185 SAGE LN	54629	CARRIER BRUCE A & RACHAEL J		185 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0047	195 SAGE LN	54630	DESMOND JEFFREY N	DESMOND KRYSTEN F	195 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0048	207 SAGE LN	54631	TEICHNER WILLIAM A	STEIN AMY L	207 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0049	217 SAGE LN	54632	CLARK HEATHER REV TRUST	CLARK HEATHER TRUSTEE	4 HUNTER DR	HAMPTON	NH	03842
0242-0004-0050	221 SAGE LN	54633	BIZIER RICHARD J & ROBERT A		4 HEMLOCK LN	ACTON	ME	01720

0242-0004-0051	231 SAGE LN	54634	PARSON WOODS INVESTMENTS LLC	11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0052	235 SAGE LN	54635	PARSON WOODS INVESTMENTS LLC	11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0053	245 SAGE LN	54636	PARSON WOODS INVESTMENTS LLC	11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0054	251 SAGE LN	54637	HOEFLE SAMUEL & KELLY VILA	251 SAGE LN	PORTSMOUTH	NH	03801
0242-0004-0055	259 SAGE LN	54638	PARSON WOODS INVESTMENTS LLC	11 LAFAYETTE RD	NORTH HAMPT(	NH	03862
0242-0004-0056	265 SAGE LN	54639	PARSON WOODS INVESTMENTS LLC	11 LAFAYETTE RD	NORTH HAMPT(	NH	03862

NHB DataCheck Results Letter

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: Claire Hilsinger
125 Nagog Park
Acton, MA 01720
chilsinger@mjinc.com

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

cc: NHFG Review

Date: 05/02/2024 (valid until 05/02/2025)
Re: DataCheck Review by NH Natural Heritage Bureau and NH Fish & Game
Permits: NHDES - Standard Dredge & Fill - Major, USACE - General Permit, USEPA - Stormwater Pollution Prevention

NHB ID: NHB24-1272

Town: Portsmouth
Location: Peverly Hill Rd.

Project Description: The Peverly Hill Road Reconstruction Project in the City of Portsmouth includes reconstruction improvements (depending on results of the geotechnical evaluation) of the roadbed, construction of an improved stormwater system, and narrowing the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared-use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The project limits extend from NH Route 33 (Middle Road) to the intersection with West Road to tie into improvements completed as part of the Yoken's Plaza Development near US Route 1. The total project length is approximately 5,100 feet.

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: Please contact NHB and indicate what erosion and sediment controls are proposed in order to protect the nearby exemplary saltmarsh and its associated rare plants. Please also indicate if the work along Greenleaf Ave will impact the edge of the salt marsh.

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.

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 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.

Natural Community	**State[1]**	**Federal**	**Notes**
High salt marsh	--	--	
Intertidal flat	--	--	
Low salt marsh	--	--	
Salt marsh system	--	--	Threats are primarily changes to the hydrology of the system, introduction of invasive species, and increased input of nutrients and pollutants.

Plant species	**State[1]**	**Federal**	**Notes**
dwarf glasswort (*Salicornia bigelovii*)	E	--	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.
marsh elder (*Iva frutescens*)	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.
saltmarsh agalinis (*Agalinis maritima ssp. maritima*)	T	--	A wildflower that grows in very shallow, briefly flooded forb pannes in the high salt marsh. 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.
tundra alkali grass (*Puccinellia pumila*)*	E	--	Primarily vulnerable to changes to the hydrology of its habitat, especially alterations that change water levels. It may also be susceptible to increased pollutants and nutrients carried in stormwater runoff.

Vertebrate species	**State[1]**	**Federal**	**Notes**
Blanding's Turtle (*Emydoidea blandingii*)	E	--	Contact the NH Fish & Game Dept (see below).

[1]Codes: "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.

NHFG Wildlife Correspondence

Christine J. Perron

From: FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Sent: Wednesday, August 21, 2024 11:45 AM
To: Christine J. Perron
Cc: FGC: NHFG review; Lewis, Eben
Subject: NHB24-1272 Peverly Hill Road Portsmouth
Attachments: Spotted_Blandings Flyer_2024.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Good morning Christine,

New Hampshire Fish and Game has completed review of materials submitted for consultation for NHB24-1272 on 8/21/2024 (site plans dated 03/01/2024) prepared by Claire Hilsinger and Mcfarland Johnson. The project involves reconstruction improvements of the roadbed, construction of an improved storm water system, and narrowing the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared[1]use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The project limits extend from NH Route 33 (Middle Road) to the intersection with West Road in Portsmouth, NH.

Permit applications associated with this project:
(note if you apply for other permits not listed below, you must notify NHFG and request a response to see if recommendations provided below can be applied to other permit applications. All anticipated permits that may be required or will be applied for MUST be identified on the NHB datacheck results letter or the NHB letter is not considered valid and cannot be applied to a consultation/permit application review).

NHDES- Wetland Standard Dredge & Fill—Minor (Not yet filed)

Based on the NHB DataCheck results letter and the information provided in the submission as well as in communications and materials provided during our consultation review, we request the following recommended permit conditions. THESE RECOMMENDED PERMIT CONDITIONS ARE APPLICABLE TO ALL STATE PERMITS LISTED ABOVE.

- **For consideration in the AoT permit review process, please incorporate recommendations along with associated materials as detailed, into the final sheet plans as written below (update highlighted text as applicable) and provide to NHDES for final review and copy NHFG.**
- **For all other permits, please include recommended permit conditions in final plan sheets plans as written below (update highlighted text as applicable) and provide to NHDES for final review and copy NHFG. Permit reviewers will adopt/include NHFG permit conditions in the permit if approved.**

NHB24-1272 New Hampshire Fish and Game Recommended Permit Conditions:

1. Blanding's Turtle (State Endangered) occur within the vicinity of the project area. All operators and personnel working on or entering the site shall be made aware of the potential presence of these species and shall be

provided flyers that help to identify these species, along with NHFG contact information. See Plan Sheet xxxxxx ***Include attached flyers to plan sheet set.***

2. Rare species information (e.g. identification, observation and reporting of observations, when to contact NHFG immediately and NHFG contact information) shall be communicated during morning tailgate meetings prior to work commencement during while the project is under active construction.
3. All manufactured erosion and sediment control products, with the exception of turf reinforcement mats, utilized for, but not limited to, slope protection, runoff diversion, slope interruption, perimeter control, inlet protection, check dams, and sediment traps shall not contain plastic, or multifilament or monofilament polypropylene netting or mesh with an opening size of greater than 1/8 inches. See Plan Sheet xxxxxx
4. Turtles may be attracted to disturbed ground during nesting season. Turtle nesting season occurs approximately May 15th – June 30th. All turtle species nests and northern black racer nests are protected by NH laws. If a nest is observed or suspected, operators shall contact NHFG immediately for further consultation. The nest or suspected nest shall be marked (surrounding roped off or cone buffer deployed) and avoided; this shall be communicated to all personnel onsite. Site activities shall not occur in the area surrounding the nest or suspected nest until further guidance is provided by NHFG.
5. All observations of threatened or endangered species on the project site shall be reported immediately to the NHFG nongame and endangered wildlife environmental review program by phone at 603-271-2461 and by email at NHFGreview@wildlife.nh.gov, with the email subject line containing the NHB DataCheck tool results letter assigned number, the project name, and the term Wildlife Species Observation.
    a. Photographs of the observed species and nearby elements of habitat or areas of land disturbance shall be provided to NHFG in digital format at the above email address for verification, as feasible.
6. In the event a threatened or endangered species is observed on the project site during the term of the permit, the species shall not be disturbed, handled, or harmed in any way prior to consultation with NHFG and implementation of corrective actions recommended by NHFG.
    a. Site operators shall be allowed to relocate wildlife encountered if discovered within the active work zone if in direct harm from project activities. Wildlife shall be relocated in close proximity to the capture location but outside of the work zone and in the direction the individual was heading. NHFG shall be contacted immediately if this action occurs.
7. The NHFG, including its employees and authorized agents, shall have access to the property during the term of the permit. , along with NHFG contact information. *Include attached flyer to plan sheet set.*

NHFG has completed our review of materials submitted for consultation under FIS 1004. No further coordination with NHFG is requested at this time. Please note that additional or a new consultation may be required in accordance with Fis 1004.08(b)4 if there are changes in project design that is referenced above which might result in potential impacts to threatened and endangered species, whether suggested to avoid harm to the species, or which could serve to increase the potential of adverse impacts to species.

These recommendations have been transmitted to the applicable permitting agency. Questions or concerns on NHFG recommendations provided in this communication **must** follow FIS 1004.12 that requires a written request for further consultation provided within 10 days of receipt of this communication. Note that NHFG recommendations may be withdrawn pursuant to FIS 1004.13.

Patrick Fitzgibbons
Wildlife Biologist
NH Fish and Game Department
Wildlife Division
Concord, NH 03301
603-271-3017
New Hampshire Fish and Game requirements for environmental review consultation can be found at: https://gencourt.state.nh.us/rules/state_agencies/fis1000.html. ALL requests for consultation and submittals should be sent via email to

NHFGreview@wildlife.nh.gov or can be sent hardcopy by mail. **The NHB datacheck results letter number needs to be included in the email subject line to read as "NHB*xx-xxxx_Project Name*_FIS 1004 Consultation Submittal".**

The requirements for consultation (Fis 1004) shall not apply to the following: statutory permit by notification, permit by rule, permit by notification, routine roadway registration, docking structure registration, or conditional authorization by rule. Review requests for these projects or other project types should be submitted to NHFGreview@wildlife.nh.gov or can be sent hardcopy by mail – email or mail subject line for these review requests should read **"NHBxx-xxxx_Project Name_ Env. Review Request".**

Please provide shapefiles/KMZ/KMLs of the project site (and relevant features if applicable) with your submittal. Review statements provided in the NHB Datacheck Results letter for additional guidance.

From: Christine J. Perron <CPerron@mjinc.com>
Sent: Monday, August 12, 2024 5:30 PM
To: FGC: NHFG review <NHFGreview@wildlife.nh.gov>
Subject: Fis 1004 consultation request - NHB24-1272

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Good afternoon,

Consultation materials are attached for a City of Portsmouth roadway improvement project.

Thanks,
Christine

McFARLAND JOHNSON

CHRISTINE J. PERRON, CWS
REGIONAL ENVIRONMENTAL MANAGER

603-225-2978
CPERRON@MJINC.COM
WWW.MJINC.COM

WATCH FOR RARE TURTLES

NHFG Wildlife Biologist Contacts:

Melissa Winters 603-479-1129 and Josh Megyesy 978-578-0802

- Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th).
- Turtles are most active from April 15th - October 15th.



Blanding's turtle (State Endangered)

Large, dark/black domed shell with lighter speckles.

Distinct yellow throat/chin.

Semi-aquatic- uses both wetland and terrestrial habitats.



Spotted turtle (State Threatened)

Small, mostly aquatic with black or dark brown with yellow spots.

Fairly flat shell compared to Blanding's turtle.

Spots vary in color and number.

Semi-aquatic - uses both wetland and terrestrial habitats.

Blanding's and spotted turtles are protected by state laws. It is illegal to capture, harass or harm these species, including their nests. Handle ONLY if necessary to move out of harms way. Move to the nearest location in the direction they were moving and contact NHFG. Do not disturb nests.

Report sightings in accordance with NHFG permit conditions. Contact NHFG Wildlife Biologist Melissa Winters 603-479-1129 (cell) and Josh Megyesy 978-578-0802 (group text preferred) if a turtle is observed nesting or a nest site is suspected within the project area. Please report promptly, noting specific location, project site and date – Photographs strongly encouraged to be included with report.

USFWS Official Species List

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: 10/31/2024 12:15:52 UTC
Project Code: 2022-0003545
Project Name: Peverly Hill Road-Portsmouth NH

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Updated 4/12/2023 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

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 listed

species and prepare and submit a project review package if necessary:

https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review

NOTE Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat - (**Updated 4/12/2023**) The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule went into effect on March 31, 2023. You may utilize the **Northern Long-eared Bat Rangewide Determination Key** available in IPaC. More information about this Determination Key and the Interim Consultation Framework are available on the northern long-eared bat species page:

https://www.fws.gov/species/northern-long-eared-bat-myotis-septentrionalis

For projects that previously utilized the 4(d) Determination Key, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project was not completed by March 31, 2023, and may result in incidental take of NLEB, please reach out to our office at newengland@fws.gov to see if reinitiation is necessary.

Additional Info About Section 7 of the Act
Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/service/section-7-consultations

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the ESA. The species' occurrence on an official species list does not convey a requirement to

consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

https://www.fws.gov/program/migratory-bird-permit

https://www.fws.gov/library/collections/bald-and-golden-eagle-management

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

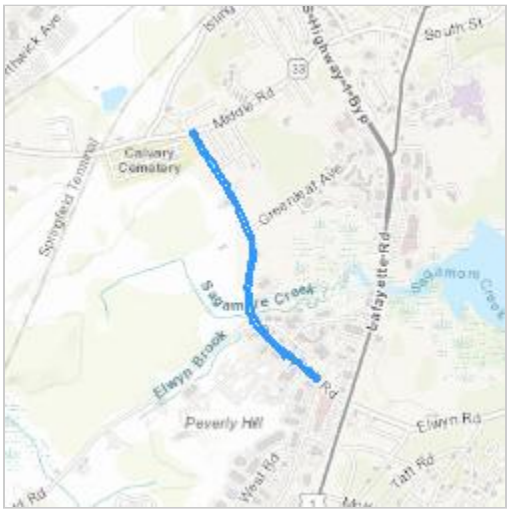
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

PROJECT SUMMARY

Project Code: 2022-0003545
Project Name: Peverly Hill Road-Portsmouth NH
Project Type: Road/Hwy - Maintenance/Modification
Project Description: The proposed project consists of reconstructing an approximately 1-mile section of Peverly Hill Road between West Street and Middle Road (NH Route 33) in Portsmouth, New Hampshire. The proposed project includes the reconstruction of existing pavement surface and installation of a closed drainage system that will eliminate the ponding conditions and provide water quality treatment.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@43.05204176816707,-70.77874149950426,14z



Counties: Rockingham County, New Hampshire

ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

INSECTS

NAME	STATUS
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

IPAC USER CONTACT INFORMATION

Agency: McFarland Johnson
Name: Christine Perron
Address: 53 Regional Drive
City: Concord
State: NH
Zip: 03301
Email cperron@mjinc.com
Phone: 6032252978

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

USFWS Northern Long-Eared Bat and Tricolored Bat Consistency Letter

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: 10/31/2024 12:28:30 UTC
Project code: 2022-0003545
Project Name: Peverly Hill Road-Portsmouth NH

Federal Nexus: yes
Federal Action Agency (if applicable): Federal Highway Administration

Subject: Technical assistance for 'Peverly Hill Road-Portsmouth NH'

Dear Christine Perron:

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 October 31, 2024, for 'Peverly Hill Road-Portsmouth NH' (here forward, Project). This project has been assigned Project Code 2022-0003545 and all future correspondence should clearly reference this number. **Please carefully review this letter. Your Endangered Species Act (Act) requirements are not complete.**

Ensuring Accurate Determinations When Using IPaC

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 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 Northern Long-eared Bat and Tricolored Bat Range-wide Determination Key (Dkey), invalidates this letter.**

Determination for the Northern Long-Eared Bat and Tricolored Bat

Based on your IPaC submission and a standing analysis completed by the Service, you determined the proposed Project will have the following effect determinations:

Species	Listing Status	Determination
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	May affect
Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	May affect

Other Species and Critical Habitat that May be Present in the Action Area

The IPaC-assisted determination key for the northern long-eared bat and tricolored bat does not apply to the following ESA-protected species and/or critical habitat that also may occur in your Action area:

- Monarch Butterfly *Danaus plexippus* Candidate

You may coordinate with our Office to determine whether the Action may cause prohibited take of the species listed above.

Conclusion

Consultation with the Service is not complete. Further consultation or coordination with the Service is necessary for those species or designated critical habitats with a determination of "May Affect." A "May Affect" determination in this key indicates that the project, as entered, is not consistent with the questions in the key. Not all projects that reach a "May Affect" determination are anticipated to result in adverse impacts to listed species. These projects may result in a "No Effect", "May Affect, Not Likely to Adversely Affect", or "May Affect, Likely to Adversely Affect" determination depending on the details of the project. Please contact our New England Ecological Services Field Office to discuss methods to avoid or minimize potential adverse effects to those species or designated critical habitats

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

1. Name

Peverly Hill Road-Portsmouth NH

2. Description

The following description was provided for the project 'Peverly Hill Road-Portsmouth NH':

> The proposed project consists of reconstructing an approximately 1-mile section of Peverly Hill Road between West Street and Middle Road (NH Route 33) in Portsmouth, New Hampshire. The proposed project includes the reconstruction of existing pavement surface and installation of a closed drainage system that will eliminate the ponding conditions and provide water quality treatment.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@43.05204176816707,-70.77874149950426,14z



DETERMINATION KEY RESULT

Based on the answers provided, the proposed Action is consistent with a determination of “may affect” for a least one species covered by this determination key.

QUALIFICATION INTERVIEW

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

   Note: Intentional take is defined as take that is the intended result of a project. Intentional take 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

2. Is the action area wholly within Zone 2 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

3. Does the action area intersect Zone 1 of the year-round active area for northern long-eared bat and/or tricolored bat?

   Automatically answered
   No

4. Does any component of the action involve leasing, construction or operation of wind turbines? Answer 'yes' if the activities considered are conducted with the intention of gathering survey information to inform the leasing, construction, or operation of 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

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

   Yes

6. Is the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), or Federal Transit Administration (FTA) funding or authorizing the proposed action, in whole or in part?

   No

7. Are you an employee of the federal action agency or have you been officially designated in writing by the agency as its designated non-federal representative for the purposes of Endangered Species Act Section 7 informal consultation per 50 CFR § 402.08?

   Note: This key may be used for federal actions and for non-federal actions to facilitate section 7 consultation and to help determine whether an incidental take permit may be needed, respectively. This question is for information purposes only.

   No

8. Is the lead federal action agency the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC)? Is the Environmental Protection Agency (EPA) or Federal Communications Commission (FCC) funding or authorizing the proposed action, in whole or in part?

   No

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

   No

10. [Semantic] Is the action area located within 0.5 miles of a known bat hibernaculum?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

11. Does the action area contain any winter roosts or caves (or associated sinkholes, fissures, or other karst features), mines, rocky outcroppings, or tunnels that could provide habitat for hibernating bats?

    No

12. Does the action area contain (1) talus or (2) anthropogenic or naturally formed rock shelters or crevices in rocky outcrops, rock faces or cliffs?

    No

13. Will the action cause effects to a covered bridge?

    No

14. Are trees present within 1000 feet of the action area?

    Note: If there are trees within the action area that are of a sufficient size to be potential roosts for bats answer "Yes". If unsure, additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

15. Does the action include the intentional exclusion of bats from a building or structure?

    Note: Exclusion is conducted to deny bats' entry or reentry into a building. To be effective and to avoid harming bats, it should be done according to established standards. If your action includes bat exclusion and you are unsure whether northern long-eared bats or tricolored bats are present, answer "Yes." Answer "No" if there are no signs of bat use in the building/structure. If unsure, contact your local Ecological Services Field Office to help assess whether northern long-eared bats or tricolored bats may be present. Contact a Nuisance Wildlife Control Operator (NWCO) for help in how to exclude bats from a structure safely without causing harm to the bats (to find a NWCO certified in bat standards, search the Internet using the search term "National Wildlife Control Operators Association bats"). Also see the White-Nose Syndrome Response Team's guide for bat control in structures.

    No

16. Does the action involve removal, modification, or maintenance of a human-made structure (barn, house, or other building) **known or suspected to contain roosting bats?**

    No

17. Will the action cause construction of one or more new roads open to the public?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

18. Will the action include or cause any construction or other activity that is reasonably certain to increase average daily traffic permanently or temporarily on one or more existing roads?

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

    No

19. Will the action include or cause any construction or other activity that is reasonably certain to increase the number of travel lanes on an existing thoroughfare?

    For federal actions, answer 'yes' when the construction or operation of these facilities is either (1) part of the federal action or (2) would not occur but for an action taken by a federal agency (federal permit, funding, etc.).

    No

20. Will the proposed Action involve the creation of a new water-borne contaminant source (e.g., leachate pond, pits containing chemicals that are not NSF/ANSI 60 compliant)?

    Note: For information regarding NSF/ANSI 60 please visit https://www.nsf.org/knowledge-library/nsf-ansi-standard-60-drinking-water-treatment-chemicals-health-effects

    No

21. Will the proposed action involve the creation of a new point source discharge from a facility other than a water treatment plant or storm water system?

    No

22. Will the action include drilling or blasting?

    No

23. Will the action involve military training (e.g., smoke operations, obscurant operations, exploding munitions, artillery fire, range use, helicopter or fixed wing aircraft use)?

    No

24. Will the proposed action involve the use of herbicides or other pesticides other than herbicides (e.g., fungicides, insecticides, or rodenticides)?

    No

25. Will the action include or cause activities that are reasonably certain to cause chronic or intense nighttime noise (above current levels of ambient noise in the area) in suitable summer habitat for the northern long-eared bat or tricolored bat during the active season?

    Chronic noise is noise that is continuous or occurs repeatedly again and again for a long time. Sources of chronic or intense noise that could cause adverse effects to bats may include, but are not limited to: road traffic; trains; aircraft; industrial activities; gas compressor stations; loud music; crowds; oil and gas extraction; construction; and mining.

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

26. Does the action include, or is it reasonably certain to cause, the use of permanent or temporary artificial lighting within 1000 feet of suitable northern long-eared bat or tricolored bat roosting habitat?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    No

27. Will the action include tree cutting or other means of knocking down or bringing down trees, tree topping, or tree trimming?

    Yes

28. Will the proposed action occur exclusively in an already established and currently maintained utility right-of-way?

    No

29. Does the action include emergency cutting or trimming of hazard trees in order to remove an imminent threat to human safety or property? See hazard tree note at the bottom of the key for text that will be added to response letters

    Note: A "hazard tree" is a tree that is an immediate threat to lives, public health and safety, or improved property.

    No

30. Does the project intersect with the 0- 9.9% forest density category?

    Automatically answered
    No

31. Does the project intersect with the 10.0- 19.9% forest density category map?

    Automatically answered
    No

32. Does the project intersect with the 20.0- 29.9% forest density category map?

    Automatically answered
    No

33. Does the project intersect with the 30.0- 100% forest density category map?

    Automatically answered
    Yes

34. Will the action cause trees to be cut, knocked down, or otherwise brought down across an area greater than 100 acres in total extent?

    No

35. Will the proposed action result in the use of prescribed fire?

    Note: If the prescribed fire action includes other activities than application of fire (e.g., tree cutting, fire line preparation) please consider impacts from those activities within the previous representative questions in the key. This set of questions only considers impacts from flame and smoke.

    No

36. Does the action area intersect the northern long-eared bat species list area?

    Automatically answered
    Yes

37. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

    Automatically answered
    No

38. [Semantic] Is the action area located within 150 feet of a documented northern long-eared bat roost site?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

39. Is suitable summer habitat for the northern long-eared bat present within 1000 feet of project activities?
If unsure, answer "Yes."

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

40. Are any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming suitable for northern long-eared bat roosting (i.e., live trees and/or snags ≥3 inches dbh that have exfoliating bark, cracks, crevices, and/or cavities)?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

41. Will any tree cutting/trimming or other knocking or bringing down of trees occur during the **Fall Swarming season** for northern long-eared bats in the action area?

    Note: Bat activity periods for your state can be found in Appendix L of the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines

    Yes

42. Does the action area intersect the tricolored bat species list area?

    Automatically answered
    Yes

43. [Semantic] Is the action area located within 0.25 miles of a culvert that is known to be occupied by northern long-eared or tricolored bats?

    Note: The map queried for this question contains proprietary information and cannot be displayed. If you need additional information, please contact your State wildlife agency.

    Automatically answered
    No

44. Has a presence/probable absence bat survey targeting the tricolored bat and following the Service's Range-wide Indiana Bat and Northern Long-Eared Bat Survey Guidelines been conducted within the project area?

    No

45. Is suitable summer habitat for the tricolored bat present within 1000 feet of project activities?
(If unsure, answer ""Yes."")

    Note: If there are trees within the action area that may provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (Tillandsia usneoides), clusters of dead pine needles of large live pines) answer ""Yes."" For a complete definition of suitable summer habitat for the tricolored bat, please see Appendix A in the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

    Yes

46. Do any of the trees proposed for cutting or other means of knocking down, bringing down, topping, or trimming provide potential roosts for tricolored bats (e.g., clusters of leaves in live and dead deciduous trees, Spanish moss (*Tillandsia usneoides*), clusters of dead pine needles of large live pine trees)?

    Note: Additional information defining suitable summer habitat for the northern long-eared bat and tricolored bat can be found in Appendix A of the USFWS' Range-wide Indiana Bat and Northern long-eared bat Survey Guidelines at: https://www.fws.gov/media/range-wide-indiana-bat-and-northern-long-eared-bat-survey-guidelines.

    Yes

47. Will any tree cutting/trimming or other knocking or bringing down of trees be conducted during the Pup Season for tricolored bat?
    Note: Bat activity periods for your state can be found in Appendix L of the Service's Range-wide Indiana Bat and Northern long-eared Bat Survey Guidelines.

    Yes

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

    No

PROJECT QUESTIONNAIRE

Enter the extent of the action area (in acres) from which trees will be removed - round up to the nearest tenth of an acre. For this question, include the entire area where tree removal will take place, even if some live or dead trees will be left standing.

0.3

IPAC USER CONTACT INFORMATION

Agency: McFarland Johnson
Name: Christine Perron
Address: 53 Regional Drive
City: Concord
State: NH
Zip: 03301
Email cperron@mjinc.com
Phone: 6032252978

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Section 106 Effect Memo

New Hampshire DOT
Department of Transportation

THE STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION

Victoria F. Sheehan
Commissioner

William Cass, P.E.
Assistant Commissioner

PORTSMOUTH
Peverly Hill Road Sidewalk Improvement/Complete Street Project
X-A002(061)
20258
RPR 8013

No Adverse Effect Memo

In order to assist the Federal Highway Administration (FHWA) in complying with Section 106 of the National Historic Preservation Act of 1966 and its amendments, the New Hampshire Depart of Transportation (NHDOT), in consultation with the New Hampshire Division of Historical Resources (SHPO), has reviewed this undertaking according to the standards and procedures detailed in the 2018 Programmatic Agreement regarding the Federal-Aid Highway Program in New Hampshire.

Project Description
The City of Portsmouth proposes to rehabilitate Peverly Hill Road from the intersection of West Road west to the intersection of NH Route 33 (Middle Road). The project will consist of the reconstruction of Peverly Hill Road to provide both pedestrian and bicycle accommodations in compliance with the City's Complete Streets Policy. In addition, the portion of Greenleaf Avenue closest to Peverly Hill Road is included in the overall project area for a water quality treatment area.

The project will entail full roadway reconstruction with drainage improvement, utility relocation, sidewalk construction, construction of a multi-use path and landscaping features.

Identification
Above-Ground

A project area form was completed in 2018, with the recommendations for inventory following in 2020. The following was determined:

Gardner-Hett Farm, 305 Peverly Hill Road, Portsmouth (POR1042) is eligible under Criterion A for its association with agricultural history of the town of Portsmouth and the Southern New Hampshire Seacoast region and its continued agricultural use into the early twenty-first century.

The following resource were found not eligible:

- POR-IFHA – Iofalla Historic Area
- POR-PPHA – Prospect Park Historic Area
- POR-PHRA – Peverly Hill Road Ranch Area
- POR-0025 – Calvary Cemetery

- POR1041 – 303 Peverly Hill Road
- POR10-43 – 384 Peverly Hill Road
- POR1044 – George Wiggin House
- POR1045 – Willey-Sides-Wiggin House
- POR1048 – Champagne House

Archaeology
Survey investigation during a Phase IA/IB determined that no further archaeological survey will be required. Slope work within 25 feet of the unmarked cemetery known as the Willey-Lightford family burial ground will require monitoring during construction by a qualified archaeologist.

Public Consultation
Public meetings were held on 2/3/16, 7/27/16, 3/27/19, 2/17/21, 4/19/21, 6/28/21, 7/12/21, and 10/14.21. No interested property owner with the project areas reached out to FHWA regarding Consulting Party status.

NHDHR was contacted via Request for Project Review in October 2017.

Determination of Effect
Gardner-Hett Farm, 303 Peverly Hill Road (POR1042): The proposed project will require the removal of some vegetation and the taking of an edge of land location along Peverly Hill Road that abut the property. The edge of land will be used to accommodate the construction of a new shared-use path. The amount of property taken for the widening of the road right-of-way is minimal in relation to the acreage of fields, and the stone walls along the road in Parcel 255-2 will not be affected. The removal of trees and brush will not adversely affect the overall setting of the resource, as the fields will remain intact; the vegetation that will be removed is not part of an intentional landscape, and the trees in front of this parcel, though mature, are random and not part of a designed landscape. The wood fence, likely dating to the 1980s-1990s, will be retained, even if relocated away from the roadway. Further evaluation is available in the Effect Evaluation table completed in July 2020.

Stonewalls throughout the project area will not be impacted.

Based upon a review pursuant to 36 CFR 800.4, NHDOT has determined that no historic or archaeological resources are affected in the project area and no further survey work is needed. The result of identification and evaluation for the proposed contract is a finding of **No Adverse Effect**.

In accordance with the Advisory Council's regulations, we will continue to consult, as appropriate, as this project proceeds.

Jill L Edelmann

12/22/2021

Jill Edelmann
Cultural Resources Manager

Date

Concurred with by the NH State Historic Preservation Officer:

Nadine Miller, DSHPO 12/23/21

Nadine Miller — Date
Deputy State Historic Preservation Officer
NH Division of Historical Resources

c.c. Marika Labash, NHDHR
Jamie Sikora, FHWA
Jon Evans, DOT
Christine Perron, MJ

S:\Environment\PROJECTS\PORTSMOUTH\20258\20258 NoAdverse Effect FHWA_PA.docx

NH GP Appendix B – USACE Section 404 Checklist

US Army Corps of Engineers ®
New England District

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

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?	4230 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: • 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: • 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.	NA	
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.

City of Portsmouth
Peverly Hill Road Reconstruction Project

ACOE Appendix B Supplemental Narrative

1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water?

Section 303(d) of the Clean Water Act requires each state to submit a list of impaired waters to the US EPA every two years to identify surface waters that are impaired by pollutants, not expected to meet water quality standards within a reasonable time and require the development of a Total Maximum Daily Load (TMDL) study. This list is prepared by NHDES as outlined in the Draft Section 305(b) and 303(d) Consolidated Assessment and Listing Methodology. According to the NHDES 303(d) list (most recent available), there is chloride, *E. coli* and dissolved oxygen impairment in the Sagamore Creek watershed (NHRIV600031001-03). Additionally, there is aluminum, chlorophyll-a, copper, *Enterococcus*, estuarine bioassessments, lead, total nitrogen and dissolved oxygen impairment in Sagamore Creek/estuary (NHEST600031001-03)

The project is expected to result in an increase in impervious surface of 55,600 SF (1.3 acres) and there are five proposed BMPs for stormwater treatment, which will treat runoff from approximately 95% of new pavement.

The proposed project is not expected to result in an adverse impact on water quality and will not cause or contribute to surface water impairments.

2.1 Are there streams, brooks, rivers, ponds, or lakes within 200 feet of any proposed work?

Sagamore Creek is a tidally influenced waterbody that flows through the project area under Peverly Hill Road just north of the intersections with Banfield Road and Mirona Road. No impacts are proposed to Sagamore Creek, and appropriate erosion and sediment controls will be in place during construction to protect nearby resources.

2.2 Are there proposed impacts to tidal SAS, prime wetlands, or priority resource areas?

Permanent impacts to Prime Wetland are expected to total 310 SF, and temporary impacts to Prime Wetland are expected to total 180 SF.

2.4 Would the project remove part or all of a riparian buffer?

Part of the Sagamore Creek riparian buffer within the island between Banfield Road and Peverly Hill Road falls within the permanent and temporary impact area. This wetland is not part of the prime wetland complex, but is within the prime wetland buffer. Work within the upland 100' prime wetland buffer will consist of slope work along the roadway footprint and drainage work.

2.7 What is the area of the proposed fill in wetlands?

The area of proposed fill in wetlands is 4,230 square feet (0.1 acre). This is the proposed area of permanent impact to wetlands, due to slope and drainage work as well as stormwater treatment BMPs.

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?

The proposed project was submitted to and reviewed by the New Hampshire Natural Heritage Bureau (NHB) via the online NHB DataCheck Tool. According to the NHB DataCheck Results Letter (NHB24-1272) dated May 2, 2024, dwarf glasswort (*Salicornia* bigelovii), marsh elder (*Iva frutescens*), saltmarsh agalinis (*Agalinis maritima ssp. maritima*), tundra alkali grass (*Puccinellia pumila*), and Blanding's turtle (*Emydoidea blandingii*) have historically been documented in the vicinity of the project area. Additionally, the high salt marsh, intertidal flat, low salt marsh, and salt marsh system natural communities are present in the vicinity of the project area.

The United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) planning tool was accessed on October 31, 2024 to determine if federally listed species have the potential to occur in the project area. An Official Species List was generated for the proposed project area (see attached USFWS Official Species List). According USFWS Official Species List, the proposed project is located within the range of the federally endangered Northern long-eared bat (*Myotis septentrionalis*), proposed endangered tricolored bat (*Perimyotis subflavus*), and the monarch butterfly (*Danaus plexippus*), a candidate species currently undergoing review for potential listing. Total tree clearing is anticipated to be approximately 0.44 acres. Consultation was carried out with the USFWS, and it was determined that the project may affect Northern long-eared bat and tricolored bat. The proposed project area includes some potential monarch habitat, but the project would not permanently change that habitat, and no monarch conservation measures are included in the project at this time. Following construction, roadside areas would continue to provide potential habitat for the monarch butterfly.

5. Historic/Archaeological Resources

The Request for Project Review (RPR) was sent to NH DHR and Section 106 consultation was carried out. It was determined that the project would result in No Adverse Effect to historic resources.

6. Minimal Impact Determination

This project will not have greater than one acre of permanent impact to wetlands.

Photographs



Photo 1: Stream A, Sagamore Creek, facing east upstream, from Peverly Hill Road (03/13/2024)



Photo 2: Wetland B (T.I.A. 9; P.I.A. 10), facing north along Peverly Hill Road (03/13/2024)



Photo 3: Wetland C/Stream A (T.I.A. 8; P.I.A. 9) facing east towards Peverly Hill Road (03/13/2024)



Photo 4: Wetland D (T.I.A. 7; P.I.A 8) facing north from Banfield Road/Peverly Hill Road intersection (03/13/2024)



Photo 5: Wetland E (T.I.A. 1 & 3; P.I.A. 2, 3 & 5) facing southeast along Peverly Hill Road (03/13/2024)



Photo 6: Wetland F (T.I.A. 4; P.I.A. 6) facing northeast along Moffat Street (03/13/2024)



Photo 7: Wetland F (T.I.A. 4; P.I.A. 6) facing southeast along Peverly Hill Road (03/13/2024)



Photo 8: Wetland G (T.I.A. 2; P.I.A. 4) facing southeast along Peverly Hill Road (03/13/2024)



Photo 9: Tidal buffer zone, Wetland I (T.I.A. 6; P.I.A. 7) east of Greenleaf Ave, facing northeast (03/13/2024)

Wetland Impact and Erosion Control Plan Set

CITY OF PORTSMOUTH
PEVERLY HILL ROAD

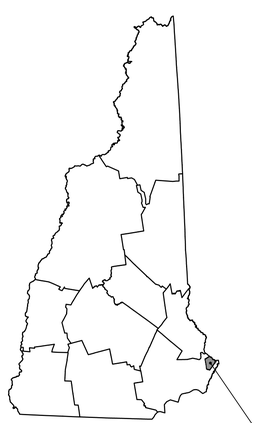
WETLAND IMPACT AND EROSION CONTROL PLANS

OCTOBER 2024

CITY OF PORTSMOUTH
ROCKINGHAM COUNTY
NEW HAMPSHIRE

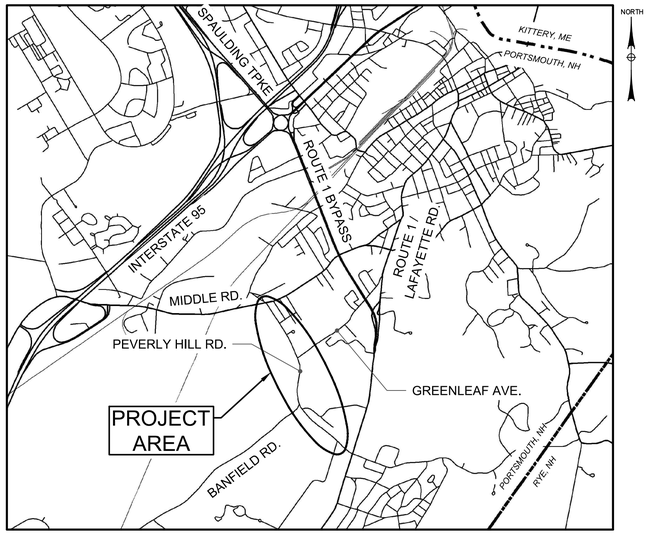
PORTSMOUTH # 20258
CMAQ PROGRAM # X-A002(061)

LOCATION MAP



PEVERLY HILL RD.
PORTSMOUTH, NH

VICINITY MAP



Sheet Index	
SHEET NUMBER	SHEET TITLE
CV–01	COVER
WP–01	Wetland Impact and Erosion Control Plan 01
WP–02	Wetland Impact and Erosion Control Plan 02
WP–03	Wetland Impact and Erosion Control Plan 03
WP–04	WETLAND IMPACT AND EROSION CONTROL PLAN 04
WP–05	WETLAND IMPACT AND EROSION CONTROL PLAN 05
WP–06	WETLAND IMPACT AND EROSION CONTROL PLAN 06
WP–07	WETLAND IMPACT AND EROSION CONTROL PLAN 07
WP–08	WETLAND IMPACT AND EROSION CONTROL PLAN 08
WP–09	WETLAND IMPACT AND EROSION CONTROL PLAN 09
WP–10	WETLAND IMPACT AND EROSION CONTROL PLAN 10
EPSC–1	EROSION CONTROL NOTES
EPSC–2	EROSION CONTROL DETAILS

PREPARED FOR:

CITY OF PORTSMOUTH
680 PEVERLY HILL ROAD
PORTSMOUTH, NH 03801
(603) 427-1530
WWW.CITYOFPORTSMOUTH.COM

PREPARED BY:

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301
(603) 225-2978
WWW.MJINC.COM

STATE OF NEW HAMPSHIRE — BRIAN R. COLBURN No. 11917 — LICENSED PROFESSIONAL ENGINEER

STATE OF NEW HAMPSHIRE — CHRISTINE J. PERRON No. 294 — CERTIFIED WETLAND SCIENTIST

MCFARLAND JOHNSON PROJECT NUMBER: 18082.01

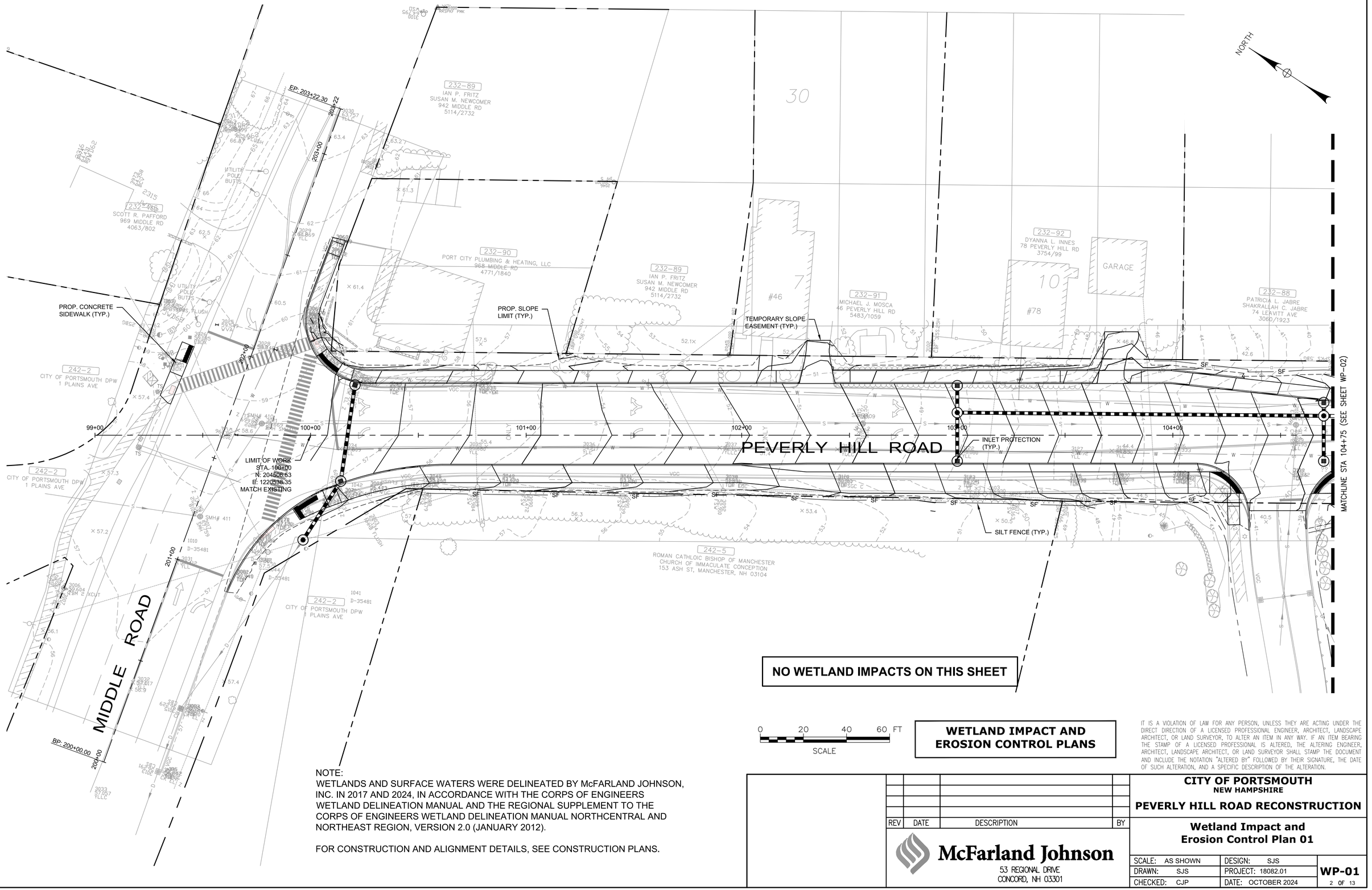
Wetland Impact Summary Table					
Impact Location	Wetland Classification	Permanent Wetland (sf)	Temporary Wetland (sf)	Permanent Tidal Buffer Zone (sf)	Temporary Tidal Buffer Zone (sf)
P.I.A 1	PFO1E	2			
T.I.A 1	PFO1E		724		
P.I.A 2	PFO1E	172			
P.I.A 3	PFO1E	73			
T.I.A 2	PFO1E		114		
P.I.A 4	PFO1E	647			
T.I.A 3	PFO1E		889		
P.I.A 5	PFO1E	2318			
T.I.A 4	PFO1E		351		
P.I.A 6	PFO1E	473			
T.I.A 5	PFO1E		7		
T.I.A 6	PWET 100/TBZ				2190
P.I.A 7	PWET 100/TBZ			10152	
T.I.A 7	PSS1E (Prime Wetland)		180		
P.I.A 8	PSS1E (Prime Wetland)*	310			
T.I.A 8	PSS1E		119		
P.I.A 9	PSS1E	196			
T.I.A 9	PEM1E/PFO1E		59		
P.I.A 10	PEM1E/PFO1E	39			
	Total	4230	2443	10152	2190

*Impacts within prime wetland buffer at this location will be limited to roadway footprint/roadway slopes

LEGEND

- TEMPORARY IMPACTS
- PERMANENT IMPACTS
- DW — DELINEATED WETLAND (DW)
- PWET — PRIME WETLAND (PWET)
- PWET 100/TBZ — 100 FT PRIME WETLAND BUFFER (PWET100)/TIDAL BUFFER ZONE (TBZ)
- TOB/OHW — TOP OF BANK (TOB) / ORDINARY HIGH WATER (OHW)
- WB 50 — 50 FT WATERFRONT BUFFER (WB)
- NWB 150 — 150 FT NATURAL WOODLAND BUFFER (NWB)
- PS 250 — 250' PROTECTED SHORELAND BUFFER (PS)

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NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

NOTE:
WETLANDS AND SURFACE WATERS WERE DELINEATED BY McFARLAND JOHNSON, INC. IN 2017 AND 2024, IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0 (JANUARY 2012).

FOR CONSTRUCTION AND ALIGNMENT DETAILS, SEE CONSTRUCTION PLANS.

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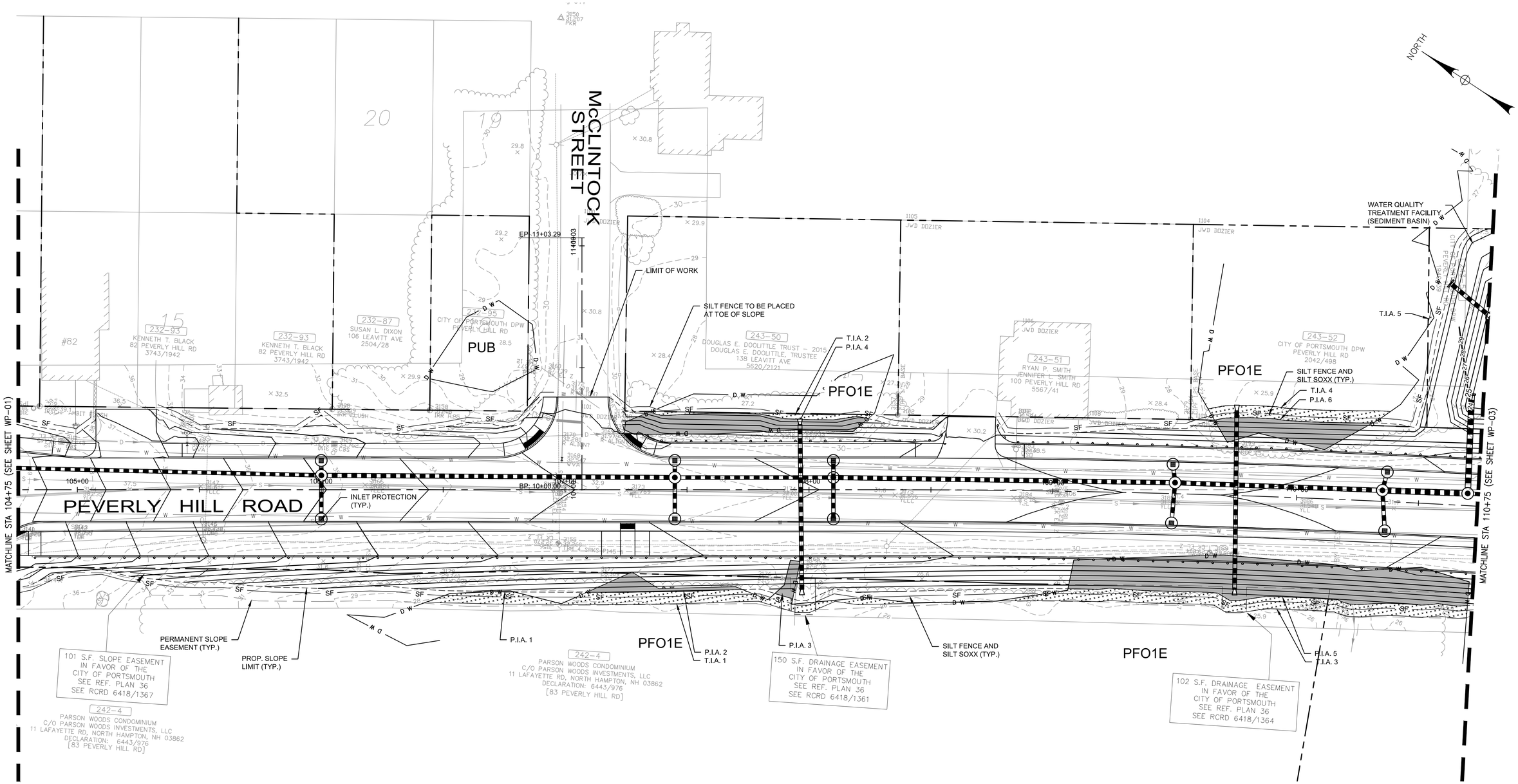
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 01

SCALE: AS SHOWN	DESIGN: SJS	**WP-01**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	2 OF 13



0 20 40 60 FT

SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 02

SCALE: AS SHOWN	DESIGN: SJS	**WP-02**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	3 OF 13

NORTH

MOFFAT STREET

PEVERLY HILL ROAD

LIMIT OF WORK

SILT FENCE (TYP.)

INLET PROTECTION (TYP.)

PROP. TEMPORARY SLOPE EASEMENT (TYP.)

PROP. SLOPE LINE (TYP.)

PROP. PERMANENT SLOPE EASEMENT (TYP.)

MATCHLINE STA 110+75 (SEE SHEET WP-02)

MATCHLINE STA 116+75 (SEE SHEET WP-04)

243-54-1
LOOR JOAN V BODWELL HAILEY
248 PEVERLY HILL RD #1
6300/2397

243-54-2
BEEBEE MYCHAL EVANS TYLER
248 PEVERLY HILL RD #2
6500/231

243-55
CURT F. MURRAY
ERIN E. MURRAY
260 PEVERLY HILL RD
5800/530

243-56
THE CHILDREN'S GARDEN PROPERTY, LLC
290 PEVERLY HILL RD
5536/2616

243-57
DONALD E. JONES
MONA M. JONES
296 PEVERLY HILL RD
2369/1541

TO GBF 2024 (#6103 23697)
N 65°21'42" E
814.97

242-3
NEW HOPE BAPTIST CHURCH
263 PEVERLY HILL RD
2269/663

255-9
DEAN A. COLBURN
287 PEVERLY HILL RD
3504/35

#297
255-7
MARIE E. BEAUPRE
297 PEVERLY HILL
5073/384

"PEVERLY HILL ESTATES"

1,501 S.F. ACCESS EASEMENT
FOR WATER SERVICES
IN FAVOR OF THE
CITY OF PORTSMOUTH
SEE REF. PLAN 32
SFE RCRD 5881/1072

255-8
PEVERLY HILL ESTATES CONDOMINIUM
C/O MERRIMACK VALLEY HOMES, INC.
794 BRIDGE ST, UNIT 6, DRACUT, MA 01826
6064/540
293 PEVERLY HILL RD

NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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53 REGIONAL DRIVE
CONCORD, NH 03301

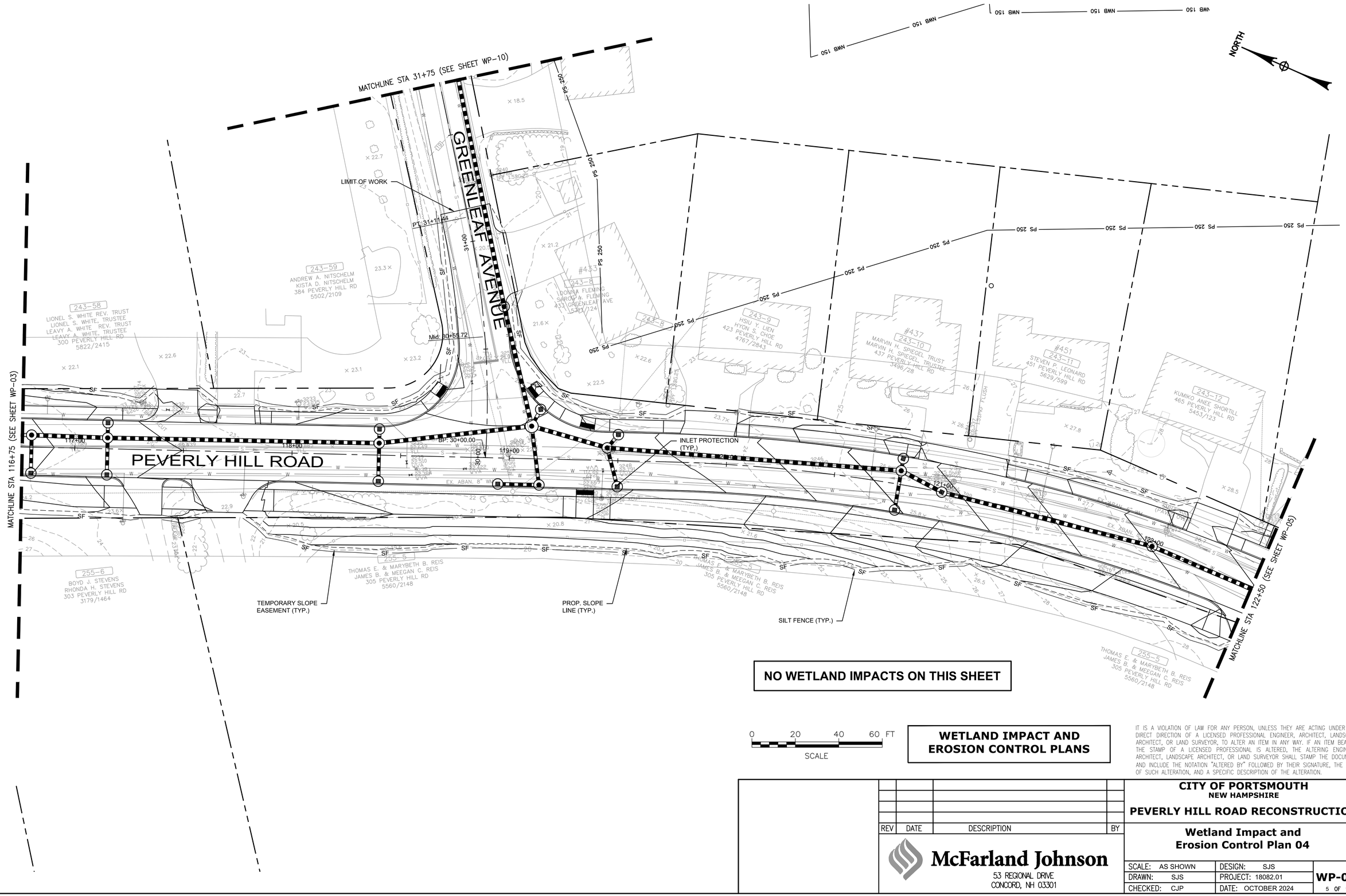
CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 03

SCALE: AS SHOWN	DESIGN: SJS
DRAWN: SJS	PROJECT: 18082.01
CHECKED: CJP	DATE: OCTOBER 2024

WP-03



NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

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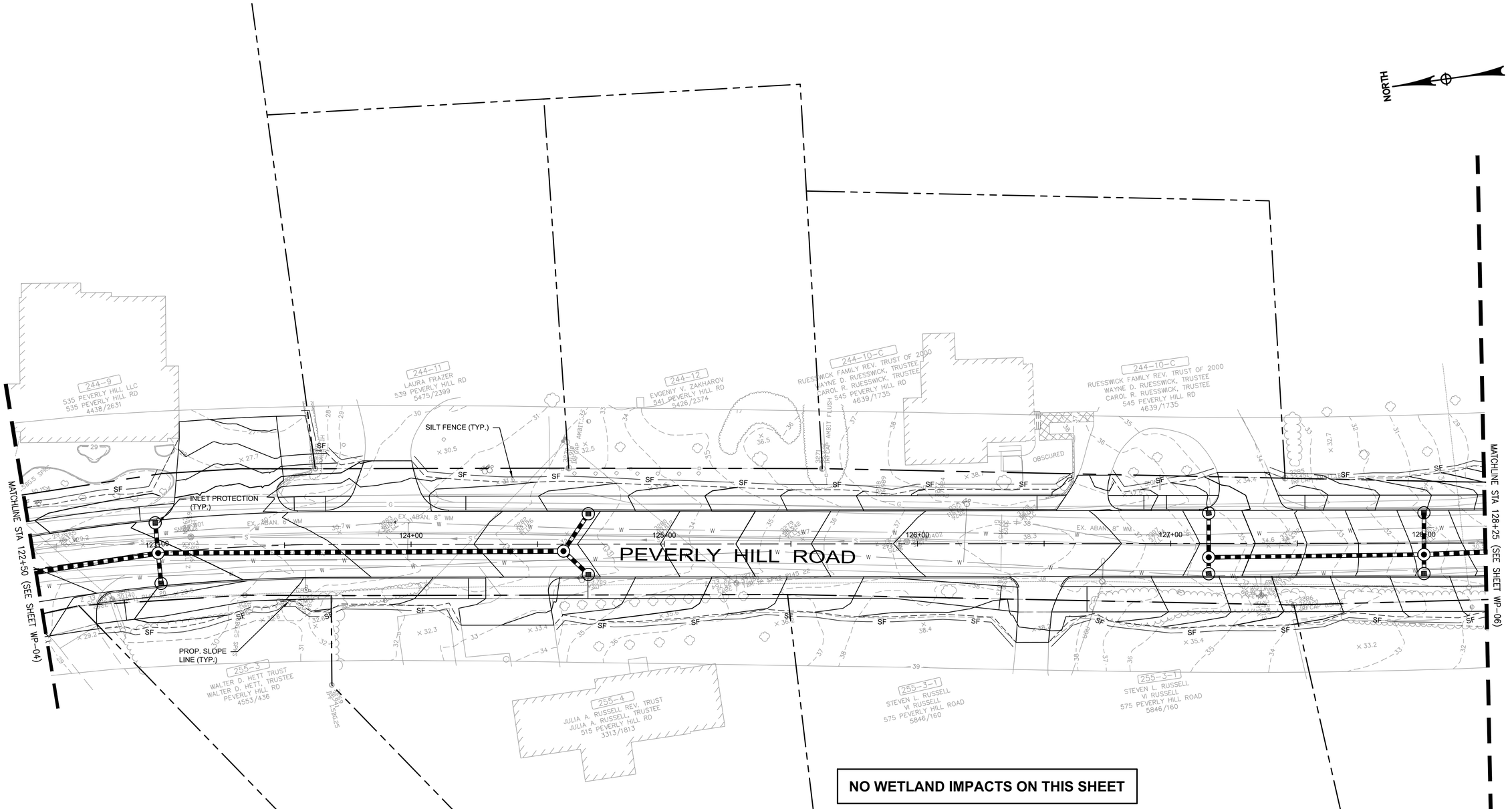
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53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 04

SCALE: AS SHOWN	DESIGN: SJS	**WP-04**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	5 OF 13



NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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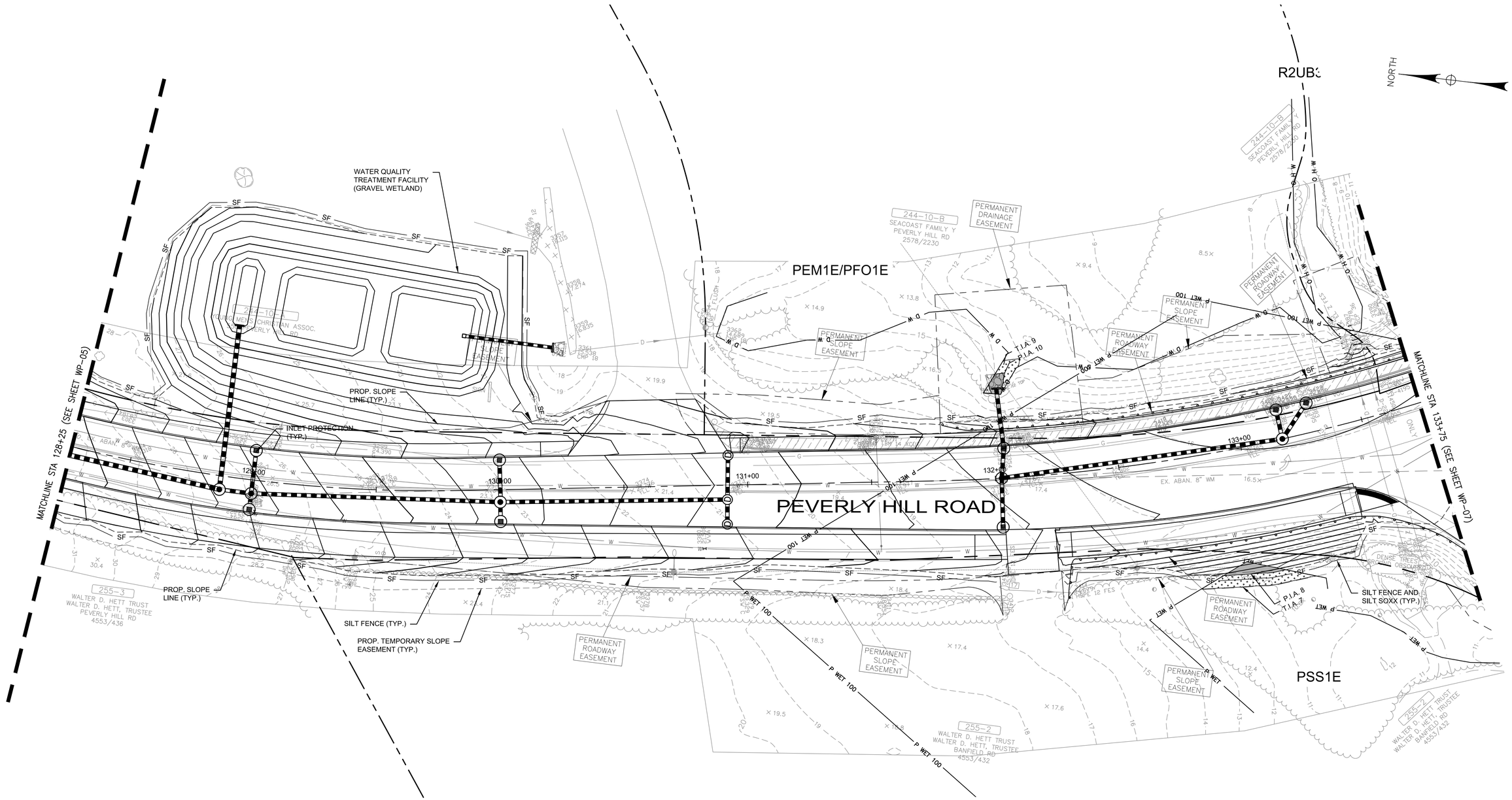
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 05

SCALE: AS SHOWN	DESIGN: SJS	**WP-05**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	6 OF 13



Note:
Impacts to Prime Wetland Buffer not shown in this area. A waiver has been requested for developed upland impacts on this sheet.

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 06

SCALE: AS SHOWN	DESIGN: SJS	WP-06
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	7 OF 13

MIRONA ROAD

PEVERLY HILL ROAD

BANFIELD ROAD

MATCHLINE STA 133+75 (SEE SHEET WP-06)

MATCHLINE STA 139+75 (SEE SHEET WP-08)

NORTH

LIMIT OF WORK

SILT FENCE (TYP.)

SILT SOXX (TYP.)

INLET PROTECTION (TYP.)

PROP. SLOPE LINE (TYP.)

BP: 40+00.00

BP: 50+00.00

EP: 51+93.77

Mid: 51+85.19

PCC: 51+76.62

Mid: 51+08.31

EP: 41+76.97

PSS1E

P.I.A. 9

T.I.A. 8

WATER QUALITY TREATMENT FACILITY (SEDIMENT BASIN)

PERMANENT ROADWAY EASEMENT

PERMANENT SLOPE EASEMENT

PERMANENT DRAINAGE EASEMENT

PERMANENT 10' SLOPE EASEMENT

253-7
GSO REALTY PORTSMOUTH LLC
1 MIRONA RD
5733/507

253-6
TWO-FOUR MIRONA ROAD, LLC
2 MIRONA RD
5042/2925

254-6
NANCY H. ALEXANDER REV. TRUST
NANCY H. ALEXANDER, TRUSTEE
620 PEVERLY HILL RD
5587/1689

254-5
BANFIELD ROAD, LLC
15 BANFIELD RD
5631/531

Note:
Impacts to Prime Wetland Buffer not shown in this area. A waiver has been requested for developed upland impacts on this sheet.

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

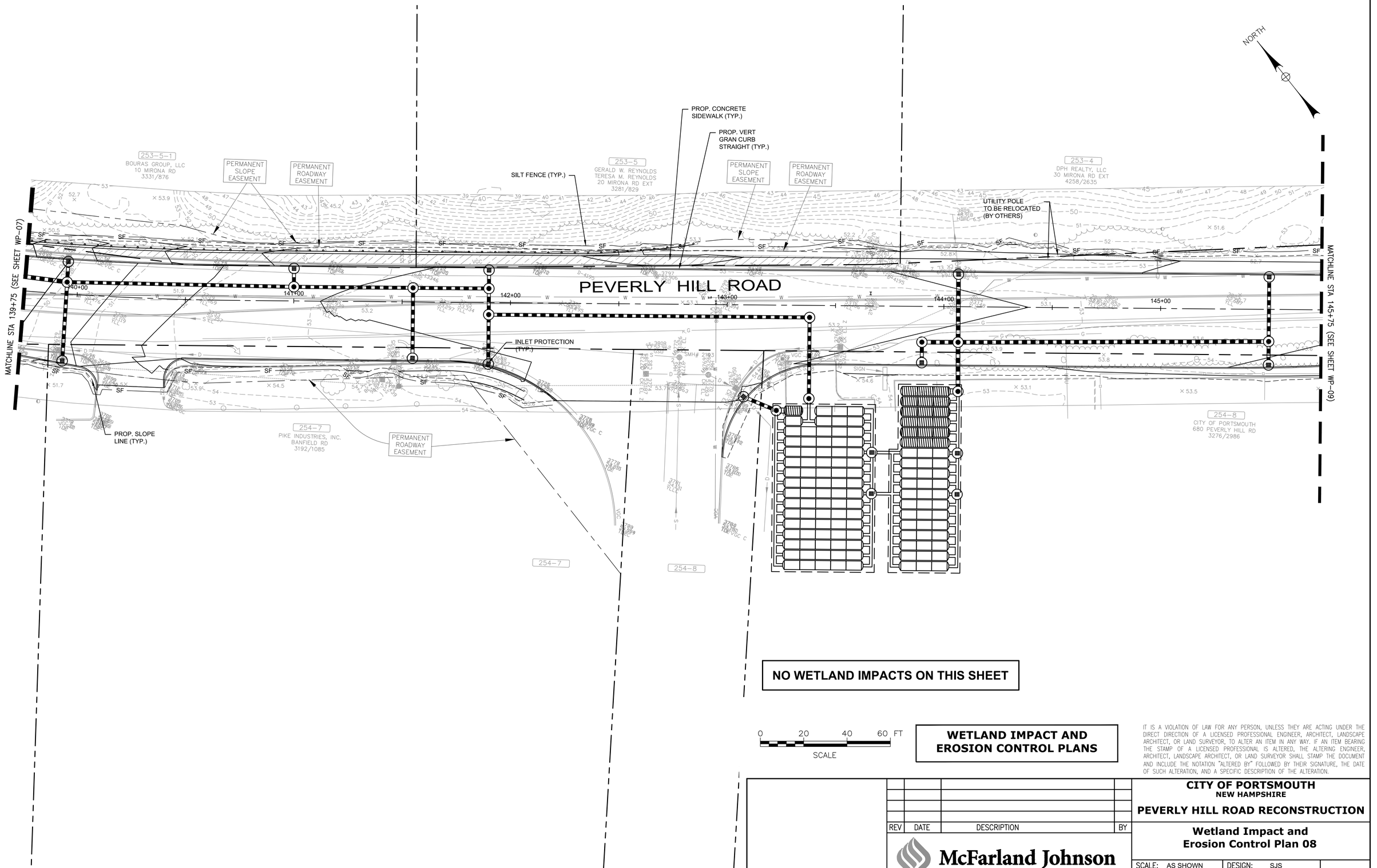
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 07

SCALE: AS SHOWN	DESIGN: SJS	**WP-07**
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP	DATE: OCTOBER 2024	8 OF 13



NO WETLAND IMPACTS ON THIS SHEET

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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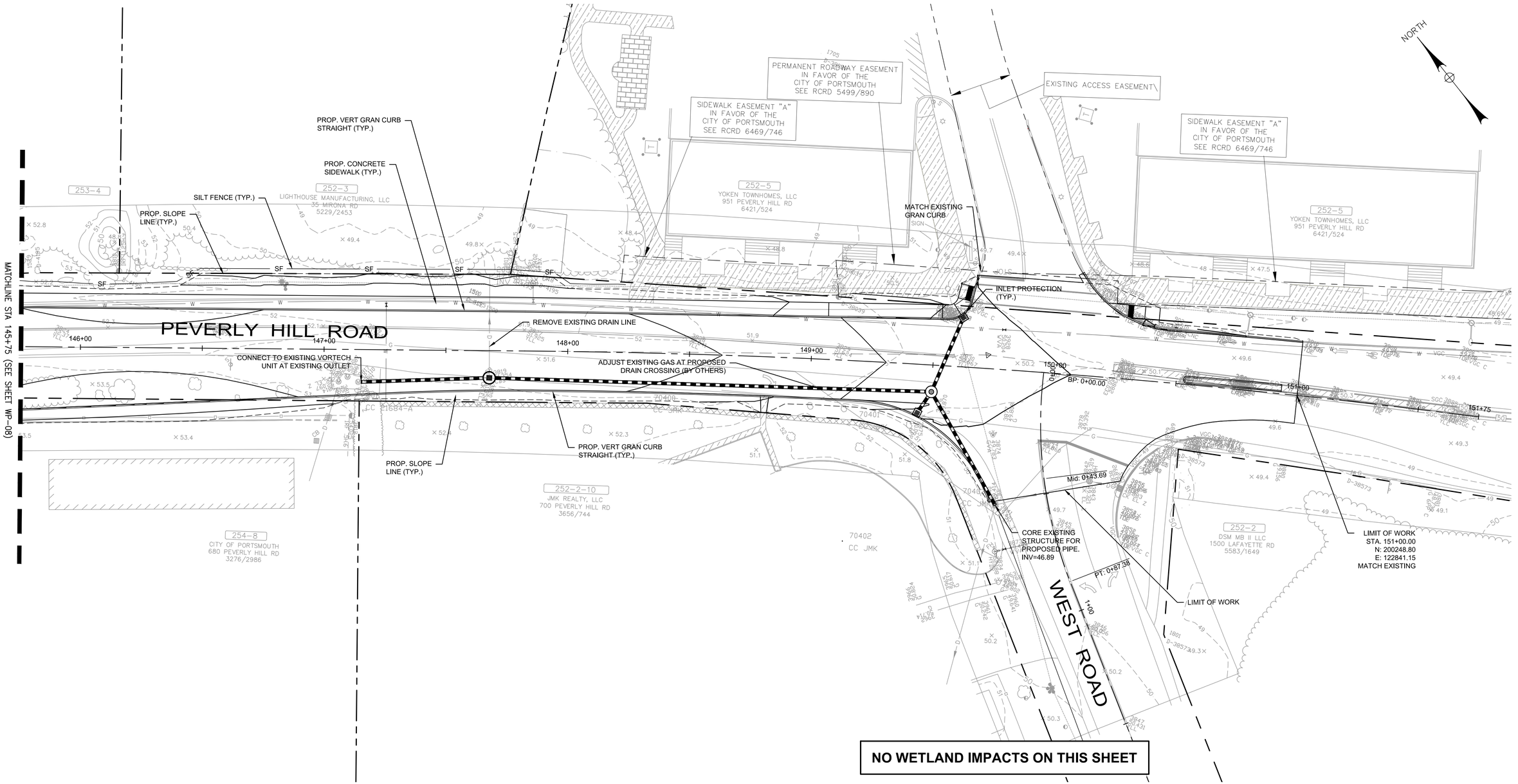
CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 08

SCALE: AS SHOWN	DESIGN: SJS
DRAWN: SJS	PROJECT: 18082.01
CHECKED: CJP	DATE: OCTOBER 2024

WP-08
9 OF 13



WETLAND IMPACT AND EROSION CONTROL PLANS

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CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 09

SCALE: AS SHOWN	DESIGN: SJS	**WP-09**
DRAWN: SJS	PROJECT: 18082.01	10 OF 13
CHECKED: CJP	DATE: OCTOBER 2024	

GREENLEAF AVENUE

MATCHLINE STA 31+75 (SEE SHEET WP-04)

NORTH

PFO1E

E2EM1P

20' WIDE SEWER EASEMENT

#404 — 243-60 — MICHAEL J. BLOUT, 404 GREENLEAF AVE, 4485/345

#394 — 243-61 — ADAM L. SAUNDERS, GRETCHEN M. LANTZ, 394 GREENLEAF AVE, 3179/2945

#390 — 243-62 — SUSAN W. CHAMBERLIN, ALBERT E. SCHERR IV, 390 GREENLEAF AVE, 3244/2463

243-63 — MARK R. TANNER, ALLISON J. TANNER, 380 GREENLEAF AVE, 3065/576

243-64 — CHRISTOPHER D. YAUN, 360 GREENLEAF AVE, 3259/215

243-7 — JUSTIN KRUPP, ELIZABETH M. KRUPP, 375 GREENLEAF AVE, 4505/647

243-7-A — THOMAS J. MORAN, JAMINE E. MORAN, 401 GREENLEAF AVE, 3560/161

243-7-1 — CARL W. CROSBY, JR., GLORIA A. CROSBY, 419 GREENLEAF AVE, 4136/2869

243-7-2 — MARK E. WESTGATE, MARIA L. WESTGATE, 407 GREENLEAF AVE, 2449/1715

243-59 — MARK E. WESTGATE, 407 GREENLEAF AVE, 2449/1715

#419, #407

PERMANENT IMPACTS WITHIN THE PROTECTED SHORELAND CONSIST OF THE FOLLOWING:

0-50' WATERFRONT BUFFER: 1,164 SF
50-150' NATURAL WOODLAND BUFFER: 10,617 SF
150-250' BUFFER: 0 SF

SILT FENCE AND SILT SOXX (TYP.)

T.I.A. 6

P.I.A. 7

PROP. PERMANENT SLOPE EASEMENT (TYP.)

0 20 40 60 FT
SCALE

WETLAND IMPACT AND EROSION CONTROL PLANS

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CONCORD, NH 03301

CITY OF PORTSMOUTH
NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Wetland Impact and Erosion Control Plan 10

SCALE: AS SHOWN	DESIGN: SJS
DRAWN: SJS	PROJECT: 18082.01
CHECKED: CJP	DATE: OCTOBER 2024

WP-10
11 OF 13

EROSION CONTROL SPECIFICATIONS:

1. SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH "NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 – EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION" 2008. THE CONTRACTOR SHALL HAVE REFERENCE TO THIS BOOK.

2. RECOGNIZING THAT IMMEDIATE ATTENTION TO EROSION CONTROL PRACTICES DRAMATICALLY IMPROVES SOIL AND MOISTURE CONSERVATION AND REDUCES NEGATIVE IMPACTS ON WATER QUALITY, THE CONTRACTOR SHALL GIVE HIGH PRIORITY TO THE DAILY AND TIMELY INSTALLATION OF BOTH TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES. IMMEDIATE INSTALLATION OF PRACTICES USUALLY REDUCES LONG TERM COSTS TO THE CONTRACTOR AND PROVIDES BENEFITS TO THE DEVELOPER AND THE PUBLIC GOOD.

3. EROSION CONTROL PRACTICES ARE SHOWN ON THE PLANS WITH RESPECT TO LOCATION AS DETERMINED FROM EXISTING TOPOGRAPHY. CHANGES MAY BE INDICATED IN THE FIELD TO IMPROVE EROSION AND SEDIMENT CONTROL.

4. CONSTRUCTION SHALL PROCEED UNIT BY UNIT TO FACILITATE INSTALLATION OF EROSION CONTROL MEASURES AND THE COMPLETION OF GRADING, SEEDING, AND LANDSCAPING AS SOON AS POSSIBLE WITHIN A UNIT. THIS PROCEDURE SHOULD RESULT IN THE EXPOSURE OF THE SMALLEST PRACTICAL LAND AREA AT ANY ONE TIME.

5. AREAS ADJACENT TO STREAMS CALL FOR PARTICULAR ATTENTION WITH REGARD TO SILT INTERCEPTION. INSTALL SILT FENCES AS SHOWN ON PLAN AND IN DETAIL BEFORE EARTHWORK COMMENCES. ADDITIONAL FENCING MAY BE REQUIRED AS WORK CONTINUES.

6. ALL DISTURBED AREAS AND ALL PROPOSED GRASSED AREAS SHALL HAVE TOPSOIL SPREAD (4" MINIMUM) AND BE LIMED, FERTILIZED, TILLED, SEEDED AND MULCHED. ALL SLOPES 3:1 (1 RISE ON 3 RUN) AND STEEPER SHALL HAVE MULCH HELD IN PLACE WITH NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), STAPLED AND STAKED. EACH AREA SHALL BE LIMED, FERTILIZED, PREPARED, SEEDED AND MULCHED (WITH ANCHORED NETTING AS REQUIRED) WITHIN 3 DAYS OF FINAL GRADING OR TEMPORARILY STABILIZED WITHIN 21 DAYS OF INITIAL DISTURBANCE. WHEN PERMANENT SEEDING CANNOT BE INSTALLED BY SEPTEMBER 15, TEMPORARY SEEDING AND MULCHING OF ALL DISTURBED AREAS SHALL BE INSTALLED IMMEDIATELY AND MAINTAINED IN THAT CONDITION UNTIL PERMANENT PRACTICES CAN BE INSTALLED IN THE FOLLOWING PLANTING SEASON.

7. THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY TIME BEFORE DISTURBED AREAS ARE STABILIZED.

8. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE (SEE NOTE 10).

9. TEMPORARY STABILIZATION OF DISTURBED AREAS:

   SEEDBED PREPARATION: TILL THREE INCHES DEEP MIXING IN FERTILIZER. APPLY LIME 2 TONS/ACRE (100#/1,000 SQ. FT.)
   FERTILIZE: UNIFORMLY APPLY NOT LESS THAN 300#/ACRE (7#/1,000 SQ. FT.) OF 10–20–20 OR EQUIVALENT.

   SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE 1 BELOW. SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

   MULCHING: MULCH ALL DISTURBED AREAS WITH 1–1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70–90#/1,000 SQ. FT.). ANCHOR ON ALL SLOPES 3:1 OR STEEPER AND FLATTER SLOPES SUBJECT TO WASH OR WIND BLOWN. USE JUTE (OR OTHER BIODEGRADABLE) NETTING. STAKING AND STAPLING MAY BE REQUIRED.

TABLE 1 – PLANT SELECTION AND SEEDING RATES

SPECIES	PER ACRE	PER 1000 SQ.FT.	REMARKS
WINTER RYE	2 BU OR 112 LBS.	2.5 LBS.	BEST FOR FALL SEEDING. SEED AUGUST 15 TO SEPTEMBER 15 FOR BEST COVER. SEED TO DEPTH OF ONE INCH.
OATS	2 1/2 BU OR 80 LBS.	2 LBS.	BEST FOR SPRING SEEDINGS. LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO DEPTH OF ONE INCH.
ANNUAL RYE	40 LBS.	1 LB.	GROWS QUICKLY. BUT IS OF SHORT GRASS DURATION USE WHERE APPEARANCES ARE IMPORTANT. COVER SEED WITH NO MORE THAN 1/4 INCH OF SOIL. WITH MULCH, SEEDING MAY BE DONE THROUGHOUT GROWING SEASON. OTHERWISE SEED EARLY SPRING OR BETWEEN AUGUST 15 & SEPTEMBER 15.

10. PERMANENT STABILIZATION OF DISTURBED AREAS:

    SEED BED PREPARATION: TOPSOIL (SANDY LOAM, LOAM, OR SILT LOAM), FRIABLE, FREE OF TREE ROOTS, WEEDS, STONES MORE THAN 1–1/2 INCHES IN DIAMETER OR LENGTH SHALL BE PLACED OVER ALL DISTURBED AREAS IN A 4" (MINIMUM) THICK LAYER.

    TOPSOIL: TOPSOIL SHALL BE FREE OF HERBICIDES AND TOXIC MATERIALS. TILL THREE INCHES DEEP MIXING IN THE FERTILIZER AND LIME. APPLY LIME AT RATES INDICATED IN TABLE "A".

    SEEDING: SELECT APPROPRIATE SEEDING MIXTURE FROM TABLE "C", SPREAD SEED UNIFORMLY. FIRM SOIL BY ROLLING OR PACKING; IF NOT FEASIBLE, THEN RAKE LIGHTLY TO COVER SEEDS.

    MULCHING: MULCH ALL DISTURBED AREAS WITH 1–1/2 TO 2 TONS OF HAY OR STRAW PER ACRE (70 – 90#/1,000 SQ. FT.). ANCHOR MULCH ON ALL SLOPES 3:1 OR STEEPER AND ON FLATTER SLOPES SUBJECT TO WASH (WATERWAYS AND/OR WINDBLOWN) USING BIODEGRADABLE NETTING (OR OTHER APPROVED BIODEGRADABLE MATTING MATERIAL), WITH STAKING AND STAPLING.

TABLE "A"–LIME APPLICATION RATES

EXISTING SOIL pH	LIMESTONE TO BE ADDED	
	TONS/ACRE	POUNDS/CY
4.0–4.4	3	12
4.5–4.9	2	8
5.0–5.4	1	4
UNKNOWN	2	8

TABLE "C" – SEEDING GUIDE

USE	SEEDING MIXTURE 1/	DROUGHTY (SOIL DRAINAGE)	WELL DRAINED	MODERATELY WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	POOR	GOOD	EXCELLENT	GOOD
	D	FAIR	FAIR	GOOD	EXCELLENT
	E	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNEL WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	GOOD	EXCELLENT	EXCELLENT	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSABLE LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR
	C	GOOD	EXCELLENT	EXCELLENT	FAIR
	D	FAIR	GOOD	GOOD	EXCELLENT
PLAY AREAS AND ATHLETIC FIELDS. (TOPSOIL IS ESSENTIAL FOR GOOD TURF.)	F	FAIR	EXCELLENT	EXCELLENT	2/
	G	FAIR	EXCELLENT	EXCELLENT	2/

GRAVEL PIT – SEE PM–NH–24 RECOMMENDATIONS REGARDING RECLAMATION OF SAND AND GRAVEL PITS. *

1/ REFER TO SEEDING MIXTURES AND RATES IN TABLE "D".
2/ POORLY DRAINED SOILS ARE NOT DESIRABLE FOR USE AS PLAYING AREAS AND ATHLETIC FIELDS.

* SEE "VEGETATING NEW HAMPSHIRE SAND AND GRAVEL PITS; TECHNICAL NOTE PM–NH–24, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, REVISION APRIL, 1991.

11. TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
    A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
    B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
    C. A MINIMUM OF 3" OF NON–EROSIVE MATERIAL SUCH STONE OR RIPRAP HAS BEEN INSTALLED; OR
    D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.

    MAINTENANCE: DURING THE CONSTRUCTION PERIOD AND UNTIL SUCH TIME AS THE LONG TERM VEGETATION IS ESTABLISHED TO A 70% VEGETATIVE STAND.
    A. DISTURBED AREAS WILL BE FERTILIZED AND RESEEDED.
    B. CATCH BASINS WILL BE CHECKED AND CLEANED AS NECESSARY.
    C. DRAINAGE AND GRASS TREATMENT SWALES SHALL BE CHECKED FREQUENTLY AND CLEANED AS REQUIRED.
    D. THE SILT FENCES AND HAYABLE DIKES WILL BE CHECKED ON A REGULAR BASIS AND REPAIRED AS NECESSARY TO CORRECT ANY DAMAGE, DETERIORATION, AND SHORT–CIRCUITING.

12. REFER TO "EROSION AND SEDIMENT CONTROL PLAN" PRIOR TO ANY SITE DISTURBANCE. CONTACT ENGINEER FOR COPIES OF PLAN.

    INSPECTIONS: THE ENGINEER SHALL BE CONTACTED ON A REGULAR BASIS TO INSPECT ALL EROSION CONTROL PRACTICES AS WELL AS THE MAINTENANCE OF THE EROSION CONTROL COMPONENTS. REFER TO CONSTRUCTION SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. EROSION CONTROL PRACTICES SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

13. ALL TREATMENT SWALES, DITCHES, AND LEVEL LIP SPREADERS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.

14. FOR SPECIAL WINTER CONSTRUCTION CONSIDERATIONS, THE CONTRACTOR SHALL REFER TO THE "EROSION & SEDIMENT CONTROL PLAN".

15. THIS PROJECT SHALL BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430.53 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES.

16. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPS ARE STABILIZED.

17. CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.

TABLE "D" – MIXTURES & RATES

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
REDTOP	2	0.05
TOTAL	42	0.95
B. TALL FESCUE	15	0.35
CREEPING RED FESCUE	10	0.25
CROWN VETCH OR	15	0.35
FLATPEA	30	0.75
TOTAL	40 or 55	0.95 or 1.35
C. TALL FESCUE	20	0.45
CREEPING RED FESCUE	20	0.45
BIRDSFOOT TREFOIL	8	0.20
TOTAL	48	1.10
D. BIRDSFOOT TREFOIL	20	0.50
REDTOP	10	0.20
TOTAL	30	0.70
E. TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL	50	1.20
F. CREEPING RED FESCUE 1/	50	1.15
KENTUCKY BLUEGRASS 1/	50	1.15
TOTAL	100	2.30
G. TALL FESCUE 1/	150	3.60

1/ FOR HEAVY USE ATHLETIC FIELDS CONSULT THE UNIVERSITY OF NEW HAMPSHIRE COOPERATIVE EXTENSION TURF SPECIALIST FOR CURRENT VARIETIES AND SEEDING RATES.

OTHER SEED MIXTURES AND SEEDING RATES AS RECOMMENDED BY THE USDA – NATURAL RESOURCES CONSERVATION SERVICE MAY BE USED WITH PRIOR WRITTEN PERMISSION FROM THE ENGINEER.

CONSTRUCTION SEQUENCE:

NOTE: THE FOLLOWING SEQUENCE IS PRELIMINARY AND THE LIKELY ORDER OF CONSTRUCTION BUT THE EXACT MEANS AND METHODS WILL ULTIMATELY BE DECIDED BY THE SELECTED CONTRACTOR.

1. INSTALL APPROPRIATE PERIMETER CONTROLS FOR SOIL EROSION AND SEDIMENT CONTROL
2. COMPLETE TREE CLEARING
3. CONSTRUCT STORMWATER BASINS
4. CONSTRUCT CROSS CULVERTS
5. CONSTRUCT NEW WATERMAIN
6. CONSTRUCT NEW EMBANKMENTS AND FILL SECTIONS
7. CONSTRUCT NEW CLOSED DRAINAGE SYSTEM
8. CONSTRUCT NEW ROADWAY SUBBASE
9. PAVE ROADWAY TO BINDER GRADE
10. CONSTRUCT CURBING
11. CONSTRUCT SIDEWALK AND MULTI–USE PATH
12. CONSTRUCT LOAM AND SEED
13. REMOVE PERIMETER CONTROLS

SPECIAL WINTER CONSIDERATIONS

THE MAJOR FOCUS OF WINTER EROSION AND SEDIMENT CONTROL IS THE PERIODS OF INTENSE RUNOFF ASSOCIATED WITH MID–WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT.

FROZEN GROUND MAKES THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES VERY DIFFICULT. INSTALLATION SHOULD TAKE PLACE WELL BEFORE THE GROUND FREEZES. MAINTENANCE IN WINTER WILL BE MUCH MORE TIME CONSUMING AND DIFFICULT THAN IN THE SUMMER. THE OVERALL CONSTRUCTION SCHEDULE AND THE WEEKLY WORK SCHEDULE WILL BE DEVELOPED TO INCREASE TIME, EFFORT, AND MANPOWER DEVOTED TO MAINTAINING THE EROSION AND SEDIMENT CONTROL MEASURES.

INTENSE RUNOFF IN MID–WINTER THAWS AND RAINSTORMS, AND THE SPRING MELT PERIOD, CAN RESULT IN MORE SEVERE EROSION AND SEDIMENTATION PROBLEMS THAN RUNOFF FROM SUMMER STORMS. THE SOIL IS OFTEN COMPLETELY SATURATED WITH WATER, AND IS ALSO OFTEN UNDERLAIN BY A FROST LAYER. BOTH OF THESE FACTORS RESULT IN A GREATER PERCENTAGE OF THE RAIN OR MELTWATER RUNNING OVER THE GROUND SURFACE. WINTER AND SPRING RAINSTORMS ARE OFTEN HEAVIER AND MORE INTENSE THAN SUMMER SHOWERS. FOR THESE REASONS, EROSION AND SEDIMENTATION CAN BE ESPECIALLY SEVERE IN MID–WINTER THAWS AND THE SPRING MELT.

1. CONTROL MEASURES FOR WINTER CONSTRUCTION:

   A. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;

   B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS; AND

   C. AFTER OCTOBER 15TH, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF GRAVEL PER NHDOT ITEM 304.2.

   D. MINIMIZE DISTURBED AREA AND TIME OF DISTURBANCE: DISTURBED AREA AND LENGTH OF DISTURBANCE SHALL BE MINIMIZED ESPECIALLY BETWEEN OCTOBER 15TH AND MAY 1ST.

   E. GRASSED OR RIP RAPPED SWALES AND DITCHES: INSTALLATION WILL OCCUR BEFORE GROUND FREEZES. CHANNELS ARE TO BE STABILIZED WITH STONE, RIPRAP, OR VEGETATION IMMEDIATELY. INSPECTIONS ARE TO BE FREQUENT WITH REMOVAL OF ANY FLOW BLOCKAGE CAUSED BY ICE OR SEDIMENT.

   F. MULCHING: MULCH ALONE SHOULD NOT BE CONSIDERED AN ADEQUATE EROSION AND SEDIMENT CONTROL TECHNIQUE FOR AREAS THAT ARE DISTURBED IN THE WINTER OR SPRING. MULCH IS EASILY WASHED AWAY BY INTENSE RUNOFF FLOWING OVER SATURATED OR FROZEN SOIL. IT IS ESSENTIAL THAT MULCH BE LAID DOWN IN SUCH A WAY THAT IT WILL NOT BLOW OR WASH AWAY.

   G. SILT FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES, OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. INSPECT FREQUENTLY AND REMOVE ANY COLLECTED SEDIMENT PERIODS IN ORDER TO PROVIDE AS MUCH CAPACITY AS POSSIBLE.

   H. SNOW FENCE: INSTALLATION IS REQUIRED BEFORE THE GROUND FREEZES OTHERWISE STAKES WILL BE DIFFICULT TO DRIVE. FENCES MUST BE PLACED LIBERALLY AROUND THE WORK SITE TO KEEP SOIL DISTURBANCE TO AN ABSOLUTE MINIMUM.

   I. STONE CHECK DAMS: PER DETAIL THE PLACEMENT WILL OCCUR IN SWALES AND DITCHES AFTER FINAL GRADING AND IS TO BE MAINTAINED UNTIL THE SITE IS FULLY STABILIZED.

2. INSPECTION AND MAINTENANCE

   INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES IS REQUIRED MORE FREQUENTLY IN THE WINTER AND SPRING THAN IN THE SUMMER. CAREFUL ATTENTION MUST BE GIVEN TO WEATHER PREDICTIONS. INSPECTION OF ALL CONTROL MEASURES WILL BE ONGOING TO ENSURE THAT STRUCTURES WILL MANAGE THE POTENTIALLY HEAVY AND INTENSE RUNOFF. CONSTANT MAINTENANCE OF CRITICAL CONTROL MEASURES MAY BE NECESSARY DURING THE WINTER AND EARLY SPRING TO PREVENT FAILURE OR OVERLOADING OF CONTROL MEASURES. A SECOND LINE OF CONTROL WILL BE QUICKLY INSTALLED IF PROBLEMS OCCUR. A SUBSTANTIAL AMOUNT OF TIME, EQUIPMENT, AND MANPOWER SHALL BE DEVOTED TO EROSION AND SEDIMENT CONTROL.

3. FOLLOW–UP

   INSTALLATION OF PERMANENT VEGETATIVE CONTROLS WILL BE REQUIRED AS EARLY AS IS PRACTICAL AT THE BEGINNING OF THE GROWING SEASON.

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REV	DATE	DESCRIPTION	BY

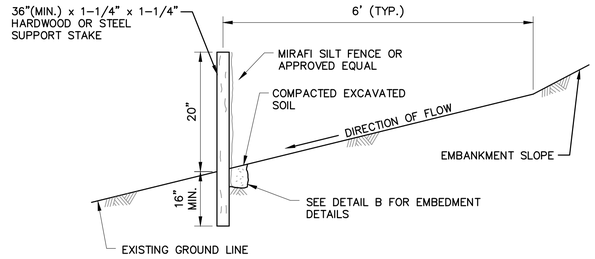
McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
PORTSMOUTH, NEW HAMPSHIRE

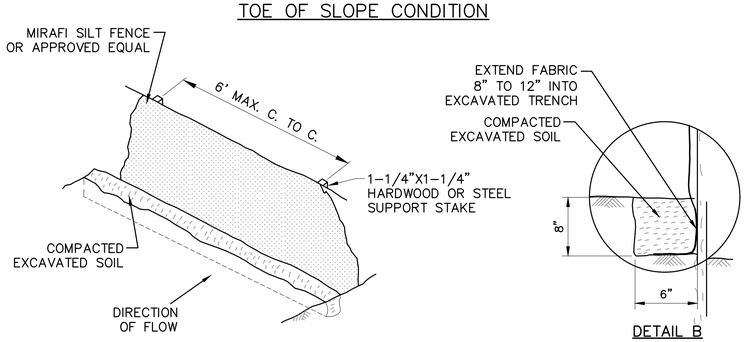
PEVERLY HILL ROAD RECONSTRUCTION

Erosion Control Notes

SCALE: AS SHOWN	DESIGN: SJS	EPSC-1
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP/BRC	DATE: OCTOBER 2024	



TOE OF SLOPE CONDITION



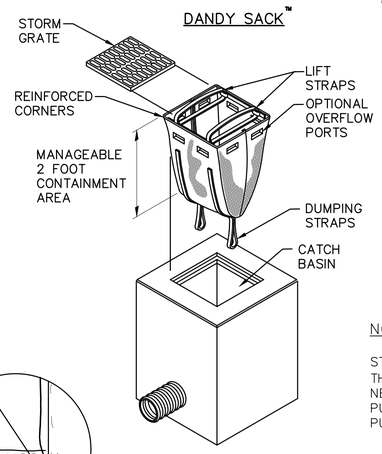
DETAIL B

NOTES:

1. FILTER FABRIC SILT FENCE MUST BE INSTALLED AT LEVEL GRADE. BOTH ENDS OF EACH FENCE SECTION MUST BE EXTENDED AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.
2. SEDIMENT MUST BE REMOVED WHEN ACCUMULATIONS REACH ONE–HALF (1/2) THE ABOVE GROUND HEIGHT OF THE FENCE.
3. ANY FENCE SECTION WHICH HAS BEEN UNDERMINED OR TOPPED MUST BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.

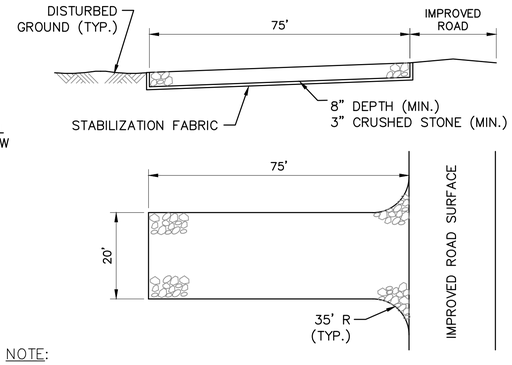
FILTER FABRIC SILT FENCE

NOT TO SCALE



DANDY SACK

NOT TO SCALE

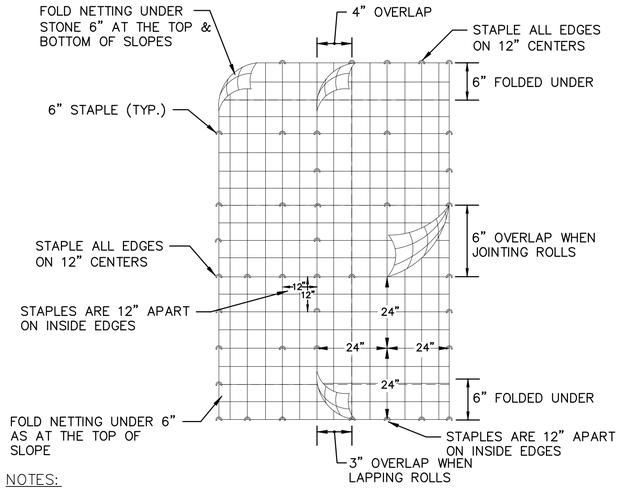


NOTE:

STABILIZED CONSTRUCTION ENTRANCE THICKNESS WILL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING NEW ROCK AND REMOVING "CLOGGED" ROCK AS NECESSARY. A STOCKPILE OF ROCK MATERIAL WILL BE STORED ON THE SITE FOR THIS PURPOSE. AT THE END OF EACH CONSTRUCTION DAY, ALL SEDIMENT DEPOSITED ON PUBLIC ROADWAYS WILL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE.

STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

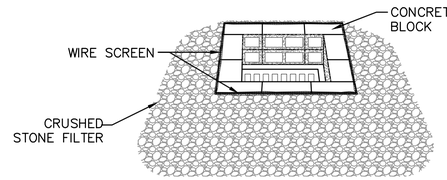


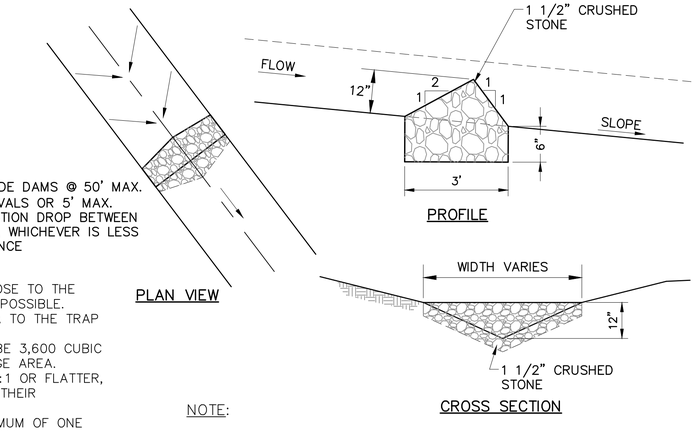
NOTES:

1. NO STAPLES TO BE OVER 24" APART CENTER TO CENTER
2. MATTING SHALL CONSIST OF ?WILDLIFE FRIENDLY? OPTIONS SUCH AS NORTH AMERICAN GREEN SC150BN, AMERICAN EXCELSIOR COMPANY AEC PREMIER COCONUT FIBRENET, EAST COAST EROSION BLANKETS, LLC ECC–2B OR EQUIVALENT. WELDED PLASTIC AND PHOTO–BIODEGRADABLE PLASTIC SHALL NOT BE USED.

MULCH NETTING INSTALLATION

NOT TO SCALE



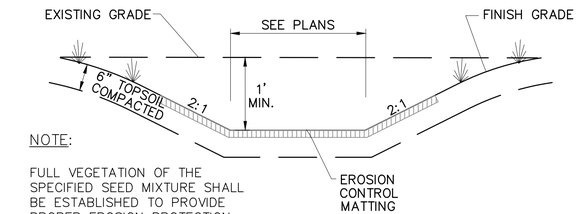


NOTE:

AN ALTERNATE MAY UTILIZE A PIECE OF SILT FENCE ON THE DOWNSTREAM END OF THE CHECK DAM AT THE DISCRETION OF THE EROSION CONTROL PLAN PREPARER.

STONE GRADE STABILIZATION (CHECK DAM) STRUCTURES

NOT TO SCALE

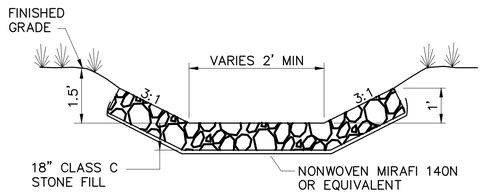


NOTE:

FULL VEGETATION OF THE SPECIFIED SEED MIXTURE SHALL BE ESTABLISHED TO PROVIDE PROPER EROSION PROTECTION.

GRASS-LINED SWALE

NOT TO SCALE



NOTES:

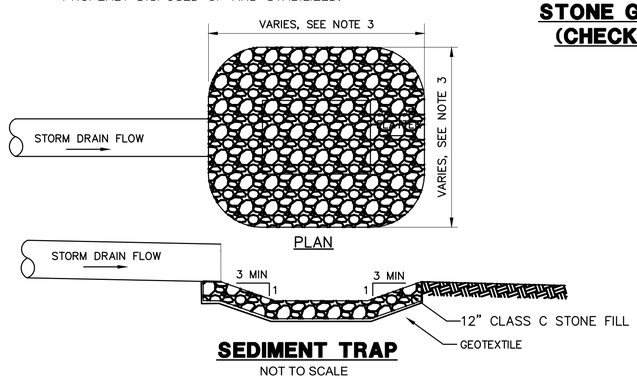
1. STONE APRONS USE SIMILAR DIMENSIONS (MIN. 10' LENGTH).
2. ALL STONE FILL SHALL MEET NHDOT STANDARDS.

STONE-LINED SWALE

NOT TO SCALE

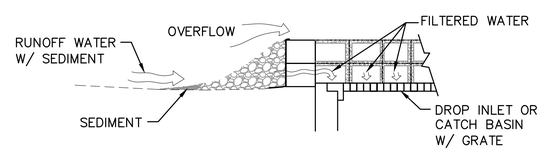
NOTES:

1. SEDIMENT TRAP SHALL BE INSTALLED AS CLOSE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE.
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION.
5. THE OUTLET OF THE TRAP SHALL BE A MINIMUM OF ONE FOOT BELOW THE CREST OF THE TRAP AND SHALL DISCHARGE TO A STABILIZED AREA.
6. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED.
7. THE MATERIALS REMOVED FROM THE TRAP SHALL BE PROPERLY DISPOSED OF AND STABILIZED.



SEDIMENT TRAP

NOT TO SCALE



BLOCK & GRAVEL DROP INLET/CATCH BASIN (SEDIMENT FILTER) INLET PROTECTION

NOT TO SCALE

GENERAL NOTES:

1. SILT FENCE SHALL CONSIST OF AN APPROVED PREFABRICATED SILT FENCE WITH FABRIC ATTACHED TO POSTS AND HALL BE ASSEMBLED IN THE FIELD ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS. WIRE MESH REINFORCEMENT AND/OR CLOSER POST SPACING MAY BE ORDERED BY THE ENGINEER IN AREAS WHERE HIGH RUNOFF VOLUMES ARE ANTICIPATED, OR LOW SPOTS WHERE SEDIMENT WILL BE COLLECTED.
2. PRIOR TO BEGINNING EARTHWORK OPERATIONS AT LOCATIONS DIRECTED BY THE ENGINEER, SILT FENCE SHALL BE CONSTRUCTED ALONG THE TOE OF PROPOSED EMBANKMENT AT THE LIMITS OF CLEARING.

WETLAND IMPACT AND EROSION CONTROL PLANS

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECT DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REV	DATE	DESCRIPTION	BY

McFarland Johnson
53 REGIONAL DRIVE
CONCORD, NH 03301

CITY OF PORTSMOUTH
PORTSMOUTH, NEW HAMPSHIRE

PEVERLY HILL ROAD RECONSTRUCTION

Erosion Control Details

SCALE: AS SHOWN	DESIGN: SJS	EPSC-2
DRAWN: SJS	PROJECT: 18082.01	
CHECKED: CJP/BRC	DATE: OCTOBER 2024	13 OF 13

Construction Sequence

STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION
PEVERLY HILL ROAD RECONSTRUCTION PROJECT
CITY OF PORTSMOUTH, NEW HAMPSHIRE
November 2024

Anticipated Construction Sequence

Notes:

- The project is anticipated to advertise near the end of 2025.
- The start of construction is anticipated to be in the winter of 2025/2026. Construction will be phased with traffic being maintained using flagger-controlled one-way alternating two-way traffic during working hours. Outside of working hours, two-way traffic would be utilized.
- The work in the wetlands and buffers is expected to start in the winter of 2025/2026 and be complete by the summer of 2026.
- The remaining portion of the project would be performed in 2026 and 2027 with construction being completed prior to the end of the 2027 construction season.
- The following sequence is preliminary and the likely order of construction but the exact means and methods will ultimately be decided by the selected contractor.

Construction Sequence:

1.) Install appropriate perimeter controls for soil erosion and sediment control
2.) Complete tree clearing
3.) Construct stormwater basins
4.) Construct cross culverts
5.) Construct new watermain
6.) Construct new embankments and fill sections
7.) Construct new closed drainage system
8.) Construct new roadway subbase
9.) Pave roadway to binder grade
10.) Construct curbing
11.) Construct sidewalk and multi-use path
12.) Construct loam and seed
13.) Remove perimeter controls

Wetland Data Forms

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Road City/County: Portsmouth Sampling Date: 03/13/2024

Applicant/Owner: NHDOT State: NH Sampling Point: B-UPL

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillside, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.0500 Long: -70.7786 Datum: NAD83

Soil Map Unit Name: 38A - Eldridge fine sandy loam, 0 to 3 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No ____ (If no, explain in Remarks.)

Are Vegetation ____, Soil ____, or Hydrology ____ significantly disturbed? Are "Normal Circumstances" present? Yes x No ____

Are Vegetation ____, Soil ____, or Hydrology ____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ____	No X	**Is the Sampled Area**	
Hydric Soil Present?	Yes ____	No X	**within a Wetland?**	**Yes** ____ **No** X
Wetland Hydrology Present?	Yes ____	No X	If yes, optional Wetland Site ID:	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ____	No ____	Depth (inches): ____
Water Table Present?	Yes ____	No ____	Depth (inches): ____
Saturation Present? (includes capillary fringe)	Yes ____	No ____	Depth (inches): ____

Wetland Hydrology Present? **Yes** ____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: B-UPL

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Frangula alnus*	5	No	FAC
2. *Ligustrum vulgare*	8	No	FACU
3. *Rosa multiflora*	15	Yes	FACU
4. *Lonicera morrowii*	15	Yes	FACU
5. *Malus sp*	5	No	
6.			
7.			
	48 =Total Cover		
Herb Stratum (Plot size: 5)			
1. *Solidago rugosa*	15	Yes	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	15 =Total Cover		
Woody Vine Stratum (Plot size: 15)			
1. *Celastrus orbiculatus*	5	Yes	UPL
2.			
3.			
4.			
	5 =Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	20	x 3 =	60
FACU species	38	x 4 =	152
UPL species	5	x 5 =	25
Column Totals:	63 (A)		237 (B)
Prevalence Index = B/A =			3.76

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Lots of dead shrubs and sumac in vicinity

SOIL

Sampling Point: B-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-5	2.5Y 3/3	100					Sandy	
5-12	2.5Y 4/3	100					Sandy	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: State: NH Sampling Point: B WET

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.049991 Long: -70.778760 Datum: NAD84

Soil Map Unit Name: 38A - Eldridge fine sandy loam, 0 to 3 percent slopes NWI classification: PEM

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No**
Hydric Soil Present?	Yes ✔	No	
Wetland Hydrology Present?	Yes ✔	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No ✔	Depth (inches):	
Water Table Present?	Yes ✔	No	Depth (inches):	4
Saturation Present? (includes capillary fringe)	Yes ✔	No	Depth (inches):	0

Wetland Hydrology Present? **Yes** ✔ **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: B WET

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	30	Y	FAC
2. *Betula populifolia*	10	Y	FAC
3.			
4.			
5.			
6.			
7.			
	40.0	= Total Cover	

Sapling/Shrub Stratum (Plot size: 15)			
1. *Viburnum lentago*	5	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
	5.0	= Total Cover	

Herb Stratum (Plot size: 5)			
1. *Phragmites australis*	50	Y	FACW
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	50.0	= Total Cover	

Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	0	= Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	50.00	x 2 =	100.00
FAC species	45.00	x 3 =	135.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	95.00 (A)		235.00 (B)

Prevalence Index = B/A = 2.47

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ☑ **No** ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: B WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5Y 4/3	90	2.5Y 2.5/1	10	C	M	SL	
6-16	2.5Y 4/3	40	5Y 4/2	20	C	M	LS	
			10YR 4/6	20	C	M	LS	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☑ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☑ **No** ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: _____ State: NH Sampling Point: D UPL

Investigator(s): C Hilsinger Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Shoulder Local relief (concave, convex, none): Convex Slope (%): 3-7

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.049510 Long: -70.779235 Datum: WGS84

Soil Map Unit Name: 134/33A - Maybid silt loam/ Scitico silt loam, 0 to 5 precent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): 14

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: D UPL

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Upland grass*	99	Y	
2. *Frangula alnus*	2	N	FAC
3. *Ranunculus acris*	1	N	FAC
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	102.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	3.00	x 3 =	9.00
FACU species	0.00	x 4 =	0.00
UPL species	0.00	x 5 =	0.00
Column Totals:	3.00 (A)		9.00 (B)

Prevalence Index = B/A = 3.0

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☐ No ☑

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: D UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	2.5Y 3/2	97	5YR 4/6	3	C	M	SL	
10-20	2.5Y 4/3	90	7.5YR 5/6	5	C	M		
			2.5Y 5/2	5	C	M		

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☐ **No** ☑

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: State: NH Sampling Point: D wet

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillslope, terrace, etc.): Swale Local relief (concave, convex, none): Concave Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.049478 Long: -70.779129 Datum: NAD83

Soil Map Unit Name: 134/33A - Maybid silt loam/ Scitico silt loam, 0 to 5 precent slopes NWI classification: PSS

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No**
Hydric Soil Present?	Yes ✔	No	
Wetland Hydrology Present?	Yes ✔	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No ✔	Depth (inches):
Water Table Present?	Yes ✔	No	Depth (inches): 3
Saturation Present? (includes capillary fringe)	Yes ✔	No	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: D wet

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Alnus incana*	75	Y	FACW
2. *Frangula alnus*	15	N	FAC
3. *Rosa multiflora*	5	N	FACU
4. *Cornus alba*	5	N	FACW
5. *Malus sp*	5		
6.			
7.			
	105.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Ranunculus acris*	5	Y	FAC
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	5.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	80.00	x 2 =	160.00
FAC species	20.00	x 3 =	60.00
FACU species	5.00	x 4 =	20.00
UPL species	0.00	x 5 =	0.00
Column Totals:	105.00 (A)		240.00 (B)

Prevalence Index = B/A = 2.29

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ☑ **No** ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: D wet

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	2.5Y 3/2	95	10YR 3/6	5	C	M	SL	
6-20	5Y 5/2	40	10YR 4/6	30	C	M	CL	
			10Y 5/1	30	C	M	CL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☑ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☑ **No** ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: _____ State: nh Sampling Point: E UPL

Investigator(s): C Hilsinger Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Footslope Local relief (concave, convex, none): Convex Slope (%): 20-60

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.055901 Long: -70.781049 Datum: NAD83

Soil Map Unit Name: 38A - Eldridge fine sandy loam, 0 to 3 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: E UPL

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
	0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Upland grasses*	99	Y	UPL
2. *Rumex crispus*	2.	N	FAC
3. *Rosa multiflora*	1	N	FACU
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	102.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1.			
2.			
3.			
4.			
	0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.00 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	0.00	x 2 =	0.00
FAC species	2.00	x 3 =	6.00
FACU species	1.00	x 4 =	4.00
UPL species	99.00	x 5 =	495.00
Column Totals:	102.00 (A)		505.00 (B)

Prevalence Index = B/A = 4.95

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☐ No ☑

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: E UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-8	2.5Y 3/2	100					S	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Gravel

Depth (inches): 8

Hydric Soil Present? Yes ☐ No ✔

Remarks:

Slope at edge of road. Fill material.

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: State: NH Sampling Point: E WET

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillslope, terrace, etc.): Flat Local relief (concave, convex, none): Concave Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.055898 Long: -70.781134 Datum: NAD83

Soil Map Unit Name: None NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No

Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No**
Hydric Soil Present?	Yes ✔	No	
Wetland Hydrology Present?	Yes ✔	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ✔ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes ✔	No	Depth (inches): 1
Water Table Present?	Yes ✔	No	Depth (inches): 4
Saturation Present? (includes capillary fringe)	Yes ✔	No	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: E WET

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	40	Y	FAC
2. *Quercus bicolor*	30	Y	FACW
3.			
4.			
5.			
6.			
7.			
	70.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Frangula alnus*	15	Y	FAC
2. *Lonicera morrowii*	5	Y	FACU
3.			
4.			
5.			
6.			
7.			
	20.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Onoclea sensibilis*	5	Y	FACW
2. *Impatiens capensis*	2	Y	FACW
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	7.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1. *Toxicodendron radicans*	5	Y	FAC
2.			
3.			
4.			
	5.0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 85.71 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	37.00	x 2 =	74.00
FAC species	60.00	x 3 =	180.00
FACU species	5.00	x 4 =	20.00
UPL species	0.00	x 5 =	0.00
Column Totals:	102.00 (A)		274.00 (B)

Prevalence Index = B/A = 2.69

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ☑ **No** ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: E WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-10	2.5Y 3/1	100					CL	
10-17	2.5Y 4/1	85	2.5Y 5/6	10	C	M	CL	
			10YR 5/8	5	C	M	CL	
17-20	10Y 5/1	100					LFS	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☑ **No** ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Road City/County: Portsmouth Sampling Date: 03/13/2024

Applicant/Owner: NHDOT State: NH Sampling Point: F-UPL

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillside, terrace, etc.): Terrace, slope Local relief (concave, convex, none): convex Slope (%): 5

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.0554 Long: -70.7801 Datum: NAD83

Soil Map Unit Name: 510B/33A - Hoosic gravelly fine sandy loam, 3 to 8 percent slopes/ Scitico silt loam, 0 to 5 precent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes x No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes x No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No X	**Is the Sampled Area**	
Hydric Soil Present?	Yes _____	No X	**within a Wetland?**	**Yes** _____ **No** X
Wetland Hydrology Present?	Yes _____	No X	If yes, optional Wetland Site ID:	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ Surface Soil Cracks (B6)
- ___ Drainage Patterns (B10)
- ___ Moss Trim Lines (B16)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Stunted or Stressed Plants (D1)
- ___ Geomorphic Position (D2)
- ___ Shallow Aquitard (D3)
- ___ Microtopographic Relief (D4)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No _____	Depth (inches): _____
Water Table Present?	Yes _____	No _____	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No _____	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** X

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: F-UPL

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Malus sp*	7	No	
2. *Robinia pseudoacacia*	15	Yes	FACU
3. *Betula populifolia*	10	Yes	FAC
4. *Rhamnus cathartica*	7	No	FAC
5. *Prunus serotina*	10	Yes	FACU
6.			
7.			
	49	=Total Cover	
Sapling/Shrub Stratum (Plot size: 15)			
1. *Rhamnus cathartica*	15	Yes	FAC
2. *Ligustrum vulgare*	5	Yes	FACU
3. *Rosa multiflora*	5	Yes	FACU
4.			
5.			
6.			
7.			
	25	=Total Cover	
Herb Stratum (Plot size: 5)			
1. *Alliaria petiolata*	30	Yes	FACU
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	30	=Total Cover	
Woody Vine Stratum (Plot size: 15)			
1. *Celastrus orbiculatus*	5	Yes	UPL
2.			
3.			
4.			
	5	=Total Cover	

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 25.0% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0	x 1 =	0
FACW species	0	x 2 =	0
FAC species	32	x 3 =	96
FACU species	65	x 4 =	260
UPL species	5	x 5 =	25
Column Totals:	102 (A)		381 (B)
Prevalence Index = B/A =			3.74

Hydrophytic Vegetation Indicators:

___ 1 - Rapid Test for Hydrophytic Vegetation

___ 2 - Dominance Test is >50%

___ 3 - Prevalence Index is ≤3.0[1]

___ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ___ **No** X

Remarks: (Include photo numbers here or on a separate sheet.)
Lots of dead shrubs and sumac in vicinity

SOIL Sampling Point: F-UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth	Matrix		Redox Features					
(inches)	Color (moist)	%	Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/2	100					Sandy	
6-14	10YR 3/3	100					Sandy	gravelly

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

Indicators for Problematic Hydric Soils[3]:

- ___ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ___ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ___ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ___ Polyvalue Below Surface (S8) (**LRR K, L**)
- ___ Thin Dark Surface (S9) (**LRR K, L**)
- ___ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ___ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ___ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ___ Red Parent Material (F21)
- ___ Very Shallow Dark Surface (TF12)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** _____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to reflect the NRCS Field Indicators of Hydric Soils version 7.0 March 2013 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: State: NH Sampling Point: F WET

Investigator(s): C Hilsinger Section, Township, Range:

Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.055451 Long: -70.780126 Datum: NAD83

Soil Map Unit Name: 510B/33A - Hoosic gravelly fine sandy loam, 3 to 8 percent slopes/ Scitico silt loam, 0 to 5 precent slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No

Are Vegetation , Soil , or Hydrology ✔ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No**
Hydric Soil Present?	Yes ✔	No	
Wetland Hydrology Present?	Yes ✔	No	If yes, optional Wetland Site ID:

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Marl Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizospheres on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- ✔ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	No ✔	Depth (inches):
Water Table Present?	Yes ✔	No	Depth (inches): 6
Saturation Present? (includes capillary fringe)	Yes ✔	No	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No**

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: F WET

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Ulmus americana*	20	Y	FACW
2. *Quercus bicolor*	15	Y	FACW
3. *Fraxinus pennsylvanica*	5	N	FACW
4.			
5.			
6.			
7.			
	40.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Lonicera morrowii*	10	Y	FACU
2. *Quercus bicolor*	10	Y	FACW
3. *Rhamnus cathartica*	8	Y	FAC
4.			
5.			
6.			
7.			
	28.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	20	Y	FACW
2. *Rosa multiflora*	5	Y	FACU
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1. *Celastrus orbiculatus*	5	Y	UPL
2.			
3.			
4.			
	5.0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 62.50 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0.00	x 1 = 0.00
FACW species 70.00	x 2 = 140.00
FAC species 8.00	x 3 = 24.00
FACU species 15.00	x 4 = 60.00
UPL species 5.00	x 5 = 25.00
Column Totals: 98.00 (A)	249.00 (B)

Prevalence Index = B/A = 2.54

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☑ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☑ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: F WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-4	10YR 3/2	100					SL	
4-20	2.5Y 4/2	75	5Y 4/2	15	C	M	SICL	
			7.5YR 3/4	10	C	M	SICL	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☑ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☑ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? **Yes** ☑ **No** ☐

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: _____ State: NH Sampling Point: G UPL

Investigator(s): C Hilsinger Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Crest Local relief (concave, convex, none): Convex Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.055837 Long: -70.780809 Datum: NAD 83

Soil Map Unit Name: 38A - Eldridge fine sandy loam, 0 to 3 percent slopes NWI classification: UPL

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✔	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** ✔
Hydric Soil Present?	Yes _____	No ✔	
Wetland Hydrology Present?	Yes _____	No ✔	If yes, optional Wetland Site ID: _____

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ Marl Deposits (B15)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Moss Trim Lines (B16)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D1)
- ☐ Geomorphic Position (D2)
- ☐ Shallow Aquitard (D3)
- ☐ Microtopographic Relief (D4)
- ☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes _____	No ✔	Depth (inches): _____
Saturation Present? (includes capillary fringe)	Yes _____	No ✔	Depth (inches): _____

Wetland Hydrology Present? **Yes** _____ **No** ✔

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: G UPL

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Rhamnus cathartica*	15	Y	FAC
2. *Acer platanoides*	15	Y	UPL
3.			
4.			
5.			
6.			
7.			
	30.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Elaeagnus umbellata*	15	Y	UPL
2. *Rosa multiflora*	5	Y	FACU
3. *Ulmus americana*	4	N	FACW
4.			
5.			
6.			
7.			
	24.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Alliaria petiolata*	30	Y	FACU
2. *Artemisia vulgaris*	5	N	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	35.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1. *Celastrus orbiculatus*	10	Y	UPL
2.			
3.			
4.			
	10.0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.67 (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.00	x 1 =	0.00
FACW species	4.00	x 2 =	8.00
FAC species	15.00	x 3 =	45.00
FACU species	35.00	x 4 =	140.00
UPL species	45.00	x 5 =	225.00
Column Totals:	99.00 (A)		418.00 (B)

Prevalence Index = B/A = 4.22

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☐ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☐ No ✔

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: G UPL

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-16	2.5Y 4/3						LS	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Cobble

Depth (inches): 16

Hydric Soil Present? **Yes** ☐ **No** ✔

Remarks:

Fill material at the edge of developed property

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Peverly Hill Rd City/County: Portsmouth Sampling Date: 2024-04-16

Applicant/Owner: _____ State: NH Sampling Point: G WET

Investigator(s): C Hilsinger Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Dip Local relief (concave, convex, none): Concave Slope (%): 0-2

Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 43.055899 Long: -70.780762 Datum: WGS84

Soil Map Unit Name: 38A - Eldridge fine sandy loam, 0 to 3 percent slopes NWI classification: PFO

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✔ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✔ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✔	No _____	**Is the Sampled Area within a Wetland?** **Yes** ✔ **No** _____
Hydric Soil Present?	Yes ✔	No _____	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present?	Yes ✔	No _____	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

- _____ Surface Water (A1)
- ✔ High Water Table (A2)
- ✔ Saturation (A3)
- _____ Water Marks (B1)
- _____ Sediment Deposits (B2)
- _____ Drift Deposits (B3)
- _____ Algal Mat or Crust (B4)
- _____ Iron Deposits (B5)
- _____ Inundation Visible on Aerial Imagery (B7)
- _____ Sparsely Vegetated Concave Surface (B8)
- _____ Water-Stained Leaves (B9)
- _____ Aquatic Fauna (B13)
- _____ Marl Deposits (B15)
- _____ Hydrogen Sulfide Odor (C1)
- _____ Oxidized Rhizospheres on Living Roots (C3)
- _____ Presence of Reduced Iron (C4)
- _____ Recent Iron Reduction in Tilled Soils (C6)
- _____ Thin Muck Surface (C7)
- _____ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- _____ Surface Soil Cracks (B6)
- _____ Drainage Patterns (B10)
- _____ Moss Trim Lines (B16)
- _____ Dry-Season Water Table (C2)
- _____ Crayfish Burrows (C8)
- _____ Saturation Visible on Aerial Imagery (C9)
- _____ Stunted or Stressed Plants (D1)
- _____ Geomorphic Position (D2)
- _____ Shallow Aquitard (D3)
- _____ Microtopographic Relief (D4)
- _____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ✔	Depth (inches): _____
Water Table Present?	Yes ✔	No _____	Depth (inches): 6
Saturation Present? (includes capillary fringe)	Yes ✔	No _____	Depth (inches): 0

Wetland Hydrology Present? **Yes** ✔ **No** _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants. Sampling Point: G WET

Tree Stratum (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status
1. *Acer rubrum*	30	Y	FAC
2. *Ulmus americana*	8	Y	FACW
3.			
4.			
5.			
6.			
7.			
	38.0 = Total Cover		
Sapling/Shrub Stratum (Plot size: 15)			
1. *Viburnum lentago*	10	Y	FAC
2. *Ligustrum vulgare*	3	Y	FACU
3.			
4.			
5.			
6.			
7.			
	13.0 = Total Cover		
Herb Stratum (Plot size: 5)			
1. *Impatiens capensis*	20	Y	FACW
2. *Hemerocallis fulva*	5	Y	UPL
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	25.0 = Total Cover		
Woody Vine Stratum (Plot size: 30)			
1. *Celastrus orbiculatus*	15	Y	UPL
2.			
3.			
4.			
	15.0 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 7 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 57.14 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species 0.00	x 1 = 0.00
FACW species 28.00	x 2 = 56.00
FAC species 40.00	x 3 = 120.00
FACU species 3.00	x 4 = 12.00
UPL species 20.00	x 5 = 100.00
Column Totals: 91.00 (A)	288.00 (B)

Prevalence Index = B/A = 3.16

Hydrophytic Vegetation Indicators:

- ☐ 1 - Rapid Test for Hydrophytic Vegetation
- ☑ 2 - Dominance Test is >50%
- ☐ 3 - Prevalence Index is ≤3.0[1]
- ☐ 4 - Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines – All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? **Yes** ☑ **No** ☐

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL Sampling Point: G WET

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
0-12	10YR 3/1	100					SI	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☑ Dark Surface (S7) (**LRR R, MLRA 149B**)
- ☐ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ☐ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ☐ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils[3]:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
- ☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
- ☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
- ☐ Dark Surface (S7) (**LRR K, L**)
- ☐ Polyvalue Below Surface (S8) (**LRR K, L**)
- ☐ Thin Dark Surface (S9) (**LRR K, L**)
- ☐ Iron-Manganese Masses (F12) (**LRR K, L, R**)
- ☐ Piedmont Floodplain Soils (F19) (**MLRA 149B**)
- ☐ Mesic Spodic (TA6) (**MLRA 144A, 145, 149B**)
- ☐ Red Parent Material (F21)
- ☐ Very Shallow Dark Surface (TF12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: Roots

Depth (inches): 12

Hydric Soil Present? **Yes** ☑ **No** ☐

Remarks:

Roadside ditch

Tighe & Bond

Partnership with purpose

DRAFT

Garden & Site Improvements
Portsmouth, New Hampshire

NHDES Standard Dredge and Fill Wetlands Permit Application

124 Group Inc

July 2026

K0076-0066

July 24, 2026

NHDES Wetlands Bureau
Attn. Eben Lewis, Southeast Region Supervisor
29 Hazen Drive
Concord, NH 03302-0095

Re: Standard Dredge & Fill Wetlands Permit Application (Major Impact)
124 Heritage Avenue, Portsmouth, New Hampshire

DRAFT

Dear Mr. Lewis,

On behalf of 124 Group Inc (the Applicant), Tighe & Bond is pleased to submit this Standard Dredge & Fill Wetlands Permit Application for the Proposed Garden and Site Improvements Project, located at 124 Heritage Avenue in Portsmouth, New Hampshire. The Applicant proposes to convert an existing maintained lawn into a community garden for use by one of the building's tenants, Gather, a local food-security non-profit. The proposed work falls within the duly-established 100-foot buffer to a municipally-designated prime wetland; therefore, we understand that the project requires a Standard Dredge & Fill Wetlands Permit from the New Hampshire Department of Environmental Services (NHDES) Wetlands Bureau.

The proposed work consists of the conversion of approximately 11,512 sf of maintained lawn into a community garden with associated native plantings and stormwater improvements. This garden is intended to be used by Gather. Shrub plantings are proposed around the edges of the garden and will consist of native berry-producing shrubs which will provide another food source for the community garden and support local wildlife. A pollinator garden is also proposed to support local pollinators. The proposed grass-lined stormwater conveyance swale will improve stormwater runoff from the roadway and adjacent parking lot and promote infiltration. The following coordination has been completed with the pertinent regulatory agencies:

- A Datacheck request was completed through the NHDES Ecological Review Section on May 28, 2026 (DCT26-1245).
- Coordination with the Portsmouth Conservation Commission and Portsmouth Planning Board is ongoing.

Thank you in advance for reviewing these materials. Should you have any questions or require additional information, please contact me at (603) 231-9918 or via email at STetreault@tighbond.com.

Respectfully yours,
Tighe & Bond, Inc.

Stefanie M. Tetreault, CWS, PWS
PROJECT MANAGER

Copy: City of Portsmouth, NH
124 Group, LLC

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DRAFT

Tighe & Bond

DRAFT

NHDES Standard Dredge and Fill Forms

STANDARD DREDGE AND FILL WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management Program / Wetlands Bureau

Check the status of your application

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

Applicant name: 124 Group Inc		**Town name:** Portsmouth
Administrative Use Only	*File number:*	*Initials:*
	Check number:	*Amount:*

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 Land Resources Management Permit Planning Tool (LRMPPT), the DataCheck Tool, the Stream Crossing Initiative Data Viewer 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?	☑ Yes ☐ No
Does the property contain a PRA? If yes, provide the following information:	☑ Yes ☐ No
Does the project qualify for an Impact Classification Adjustment (such as an agreement from the NHDES Ecological Review Section for a classification downgrade) or a Project-Type Exception (such as a Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04.	☐ Yes ☐ No
Protected species or habitat?	☐ Yes ☐ No
• If yes, species or habitat name(s):	
• DataCheck project ID number: DCT26-1245	
Bog?	☐ Yes ☐ No
Floodplain wetland contiguous to a tier 3 or higher watercourse?	☐ Yes ☐ No
Designated prime wetland or duly-established 100-foot buffer?	☑ Yes ☐ No
Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?	☐ Yes ☐ No
Is the property within a Designated River corridor? If yes, provide the following information:	☐ Yes ☐ No
• Name of Local River Management Advisory Committee (LAC): N/A	
• A copy of the application was sent to the LAC on (mm/dd/yyyy): N/A	
For dredging projects, is the subject property contaminated? N/A	☐ Yes ☐ No
If yes, list contaminant:	
Is there potential to impact impaired waters, Class A waters or Outstanding Resource Waters?	☐ Yes ☐ No
For stream crossing projects, provide watershed size (see LRMPPT or Stream Stats): N/A	

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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 proposed project will consist of the permanent conversion of approximately 11,512 sf of maintained lawn into a community garden with associated native plantings and stormwater improvements. This work will occur within the 100-foot buffer to a municipally-designated Prime Wetland, which is located southwest of Heritage Avenue.

SECTION 3 - PROJECT LOCATION

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

Address: 124 Heritage Avenue

Town or city: Portsmouth

Tax map/block/lot/unit: Map 284 Lot 8

U.S. Geological Survey (USGS) topo map waterbody name:
☒ n/a

(Optional) Latitude / longitude in decimal degrees (to five decimal places): 43.03460, -70.79750

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: 124 Group Inc

Mailing address: 210 Commerce Way Suite 300

Town or city: Portsmouth | State: NH | ZIP: 03801

Email address: kkraus@kane.co | Phone: (603) 559-9666

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)) ☐ **N/A**

Last name, first name, middle initial: Tetreault, Stefanie, M.

Company name: Tighe & Bond, Inc.

Mailing address: 177 Corporate Drive

Town or city: Portsmouth | State: NH | ZIP: 03801

Email address: STetreault@tighebond.com | Phone: (603) 294-9652

Electronic communication: By initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically: SMT

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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.* ☒ Same as applicant		
Name:		
Mailing address:		
Town or city:	State:	ZIP:
Email address:	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):

The project has been designed in accordance with the applicable requirements of Env-Wt 306 and Env-Wt 307 as well as the project specific requirements for commercial and industrial development (Env-Wt 524) to the extent practicable. The proposed work is located within the duly established 100-foot buffer to a municipally designated Prime Wetland, therefore the project has also been evaluated in accordance with the applicable requirements of Env-Wt 700 and is not expected to result in a significant net loss of Prime Wetland functions or values. Refer to Section 3 of the provided Supplemental Project Narrative for a detailed overview of how the project generally conforms to each applicable section.

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 (mm-dd-yyyy):	☒ 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)

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SECTION 11 - IMPACT AREA (Env-Wt 311.04(g))

For each jurisdictional area that will be or 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; meaning work was started or completed without a permit).

For intermittent and ephemeral streams, linear feet of impact are 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/rivers, linear feet of impact are 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	3657		☐	2358		☐
	Scrub-shrub Wetland	160		☐	125		☐
	Emergent Wetland	39		☐	59		☐
	Wet Meadow			☐			☐
	Vernal Pool			☐			☐
	Designated Prime Wetland	67		☐	189		☐
	Duly-established 100-foot Prime Wetland Buffer			☐			☐
Surface Water	Intermittent / Ephemeral Stream			☐			☐
	Perennial Stream or River			☐			☐
	Lake / Pond			☐			☐
	Docking - Lake / Pond			☐			☐
	Docking - River			☐			☐
Banks	Bank - Intermittent Stream			☐			☐
	Bank - Perennial Stream / River			☐			☐
	Bank / Shoreline - Lake / Pond			☐			☐
Tidal	Tidal Waters			☐			☐
	Tidal Marsh			☐			☐
	Sand Dune			☐			☐
	Undeveloped Tidal Buffer Zone (TBZ)	9449		☐	2876		☐
	Previously-developed TBZ			☐			☐
	Docking - Tidal Water			☐			☐
TOTAL		13372			5607		

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

☐ Minimum impact: flat fee of $600.
☐ Non-enforcement related, publicly funded and supervised restoration projects, regardless of impact classification: flat fee of $600 (refer to R2-A:3, 1(c) for restrictions).
■ Minor or major impact fee: calculate using the table below.

Permanent and temporary (non-docking) in square feet:	11,512.0	× $0.60 =	$ 6,907.2
Seasonal docking structure, in square feet:		× $3.00 =	$
Permanent docking structure, in square feet:		× $6.00 =	$
Projects proposing shoreline structures (including docks): add $600.			$
Total			$
The application fee for minor or major impact is the above calculated total or $600, whichever is greater.			$

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

☐ Minimum impact project	☐ Minor project	■ Major project

SECTION 14 - REQUIRED CERTIFICATIONS (Env-Wt 311.11) *Initial each box below to certify.*

Initials:	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials:	The information submitted on or with the application is true, complete, and not misleading to the best of the signer's knowledge and belief.
Initials:	The signer understands that submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 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 office of professional licensure and certification established by RSA 310.
Initials:	If the applicant is not the owner, each property owner's 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:

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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 provided a hard copy and a digital copy of a completed application form, with required attachments, to the town or city indicated below.	
Town or city clerk signature:	Print name legibly:
Town or city:	Date:

DIRECTIONS FOR TOWN OR CITY CLERK

1. Upon confirming receipt of one paper copy and one digital copy of this application, with its attachments, Immediately sign a copy of the application and return it to the applicant for submittal to the department.
2. Retain the hard copy for review by the public and immediately distribute a digital copy of the application package to each of the following bodies:

    a. Local conservation commission.
    b. Local governing body such as select board or town or city council.
    c. Local planning board.

DIRECTIONS FOR APPLICANT

1. Bring one hard copy of the application and its attachments, and one digital copy of the same, to the municipal clerk(s) of the town(s) in which proposed jurisdictional impacts are located. Digital copies shall be in PDF format or other formats approved by NHDES.
2. Submit the copy of the complete application package signed by the municipal clerk(s) to NHDES.
3. State agency applicants may file simultaneously with NHDES and the municipal clerk.

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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: **124 Group Inc** **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.

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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.

THE PROJECT IS CONFINED TO AREAS OF EXISTING MAINTAINED LAWN LOCATED WITHIN THE 100-FOOT BUFFER TO A MUNICIPALLY-DESIGNATED PRIME WETLAND WITH NO DIRECT WETLAND IMPACTS PROPOSED. AS THE EXISTING SITE CONSISTS OF A COMMERCIAL BUILDING WITH ASSOCIATED PARKING LOTS AND DOCKING BAYS THERE IS LIMITED SPACE ELSEWHERE ON THE SITE TO CREATE THE PROPOSED COMMUNITY GARDEN. THE PROJECT IS NOT ANTICIPATED TO ADVERSELY AFFECT THE ECOLOGICAL FUNCTIONS OR VALUES OF THE AREA, AND THE PROPOSED INCLUSION OF NATIVE PLANTINGS WILL ENHANCE THE HABITAT AND BUFFER FUNCTION RELATIVE TO EXISTING CONDITIONS.

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.

Neither direct nor indirect marsh impacts are anticipated as a result of this project.

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 project will occur entirely in uplands and is not anticipated to alter the hydrologic connection between adjacent wetlands or stream systems. The proposed drainage swale is intended to collect stormwater runoff and improve infiltration.

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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.

Proposed work within the duly established Prime Wetland buffer is limited to an existing maintained lawn and has been designed to avoid direct impacts to wetlands, surface waters, and other jurisdictional areas under RSA 482-A. Appropriate erosion and sediment control measures will be implemented during construction to prevent erosion, sedimentation, and turbitidy. An NHDES Ecological Review Datacheck (DCT26-1245), completed on May 28, 2026, determined that the project is not expected to result in impacts to protected species, exemplary natural communities, or critical habitat. The project will enhance existing buffer conditions through native vegetation and improved stormwater management while avoiding mpacts to wetland or aquatic resources.

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 project is located in maintained lawn and is not anticipated to adversely affect public commerce, navigation, or recreation. The proposed community garden will provide a public benefit by increasing access to local food production, supporting enviornmental education and community engagement, and enhancing the site's recreational and social value.

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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.

No impacts to floodplain wetlands are proposed as part of this project.

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.

No impacts to riverine forested wetlands nor scrub-shrub - marsh complexes are proposed as part of this project.

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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.

Given the low-impact nature of the proposed work, no detrimental impacts to adjacent drinking water supply nor groundwater aquifer levels are anticipated as a result of the project.

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 project is not anticipated to result in adverse impacts to stream channels. The project has been designed to avoid impacts to the adjacent intermittent stream by confining all work to the existing maintained lawn within the Prime Wetland buffer.

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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 construction over surface waters is proposed as part of this project.

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 are proposed as part of this project.

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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 are proposed as part of this project.

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 are proposed as part of this project.

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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 are proposed as part of this project.

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 are proposed as part of this project.

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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: U.S. Army Corps of Engineers "The Highway Methodology Workbook Supplement - Wetland Functions and Values, A Descriptive Approach"
NAME OF CERTIFIED WETLAND SCIENTIST (FOR NON-TIDAL PROJECTS) OR QUALIFIED COASTAL PROFESSIONAL (FOR TIDAL PROJECTS) WHO COMPLETED THE ASSESSMENT: STEFANIE TETREAULT, PWS, CWS
DATE OF ASSESSMENT: OCTOBER 21, 2025
Check this box to confirm that the application includes a NARRATIVE ON FUNCTIONAL ASSESSMENT: ☒
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: ☒ Note: The Wetlands Functional Assessment worksheet can be used to compile the information needed to meet functional assessment requirements.

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PRIME WETLAND WAIVER
FORESTRY & OTHER ACTIVITIES
Water Division / Land Resources Management
Wetlands Bureau

RSA/Rule: RSA 482-A:11/ Env-Wt 706

APPLICANT LAST NAME, FIRST NAME, M.I.: City of Portsmouth, attn: Pe

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

As provided in RSA 482-A:11, IV(b)(1), to be eligible for the Forestry Statutory Permit-by-Notification (Forestry SPN), a property owner must obtain a waiver to perform any forest management work and related activities in the forested portion of a designated **prime wetland*** or **duly-established 100-foot buffer†** from the department. *For a waiver request for Forestry Activities within a designated prime wetland or duly-established 100-foot buffer, please complete Part I of this form.*

As provided in RSA 482-A:11, IV(c), a property owner may request a waiver from the department to perform work not addressed above within a portion of any **duly-established 100-foot buffer†** of a prime wetland on his or her property. Please note that waivers for such activities may only be requested for work within a duly-established 100-foot buffer, not for work within prime wetlands. *For a waiver request for Activities Other than Forest Management within a duly-established 100-foot buffer, please complete Part II of this form.*

A waiver request for work in a prime wetland or duly-established 100-foot buffer must be submitted to the department at the same time as a notification for an SPN or other application, as applicable.

***Prime Wetlands**: Any contiguous areas falling within the jurisdictional definitions of RSA 482-A:2, X and RSA 482-A:4 that, because of their size, unspoiled character, fragile condition, or other relevant factors, make them of substantial significance (482-A:15, I-a).

†Duly-Established 100-foot Buffer: The buffer recognized in RSA 482-A:11, IV for prime wetlands designated on or after September 11, 2009 but before August 17, 2012 (Env-Wt 102.63).

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PART I: WAIVER REQUEST FOR FORESTRY ACTIVITIES

SECTION 1 - REQUESTED WAIVER AND FILING FEE (Env-Wt 706.02(b)(3))

Check or money order for the applicable filing fee payable to "Treasurer – State of NH" (RSA 482-A:3, I(c)).

- ☐ $200 for a project that would otherwise qualify for a Forestry SPN if it was not located in or near a designated prime wetland or duly-established 100-foot buffer.
- ☐ $500 for a minor impact project that does not otherwise qualify as minimum or major impact project.
- ☐ $1,250 for a major impact project classified regardless of prime wetlands designation.

SECTION 2 - PROPOSED WORK (Env-Wt 706.02(b); RSA 482-A:11, IV(b)(1))

Provide a brief written description of the work to be performed.

SECTION 3 - PRIME WETLANDS VALUES (Env-Wt 706.02(b); RSA 482-A:11, IV(b)(1))

Provide a list of the prime wetlands values as identified by the municipality when the prime wetland or duly-established 100-foot buffer was designated. Demonstrate that the project will not create a significant net loss of these wetland values.

SECTION 4 - REQUIRED ATTACHMENTS (Env-Wt 706.02; RSA 482-A:11, IV(b)(1))

☐ A sketch of the property depicting the best approximate location of each prime wetlands/buffer in which work is proposed and the location of proposed work, including access roads.

☐ A copy of the notice of intent to cut, if applicable. N/A

☐ Other information to demonstrate that there will be no significant net loss of wetland values identified by the municipality when the prime wetland/buffer was designated.

SECTION 5 - ADDITIONAL INSTRUCTIONS (Env-Wt 706.02; RSA 482-A:11, IV(b)(3))

☐ At the time the applicant submits the waiver request to the department, the applicant also shall submit, ***via certified mail***, a copy of the waiver request and all supporting documentation to the local governing body, the planning board, if any, and the conservation commission, if any, of the municipalities in which any prime wetlands/buffers associated with the application are located.

☐ If a prime wetland/buffer associated with the application extends into an abutting property, the property owner requesting the waiver shall provide a copy of the waiver request and all supporting documentation to the owner of that abutting property. The applicant shall send the notice required ***by certified mail***.

Please note:

- As provided in RSA 482-A:11, IV(b)(3), the department shall not issue a waiver for forestry activities prior to 14 days after receipt of the waiver request, provided however that a municipal conservation commission may request an extension on such waiver issuance, not to exceed 14 days, which the department shall grant if requested.

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- As provided by RSA 482-A:11, IV(b)(2), the department shall not issue a waiver unless the department determines that there will be no significant net loss of wetland values as identified by the local conservation commission/local governing authority or in RSA 482-A:1.
- If the department determines that the criteria for issuing a waiver are met, the waiver shall be issued as part of the Forestry SPN or permit, as applicable.
- If the department is unable to determine, based on the information submitted, that the proposed work will not cause a significant net loss of wetland values, the department shall notify the applicant of what additional information is needed and establish a deadline in consultation with the applicant for the submission of the additional information.
- If the department determines that the project would not cause a significant net loss of wetland values if certain conditions were met, the department shall place such conditions on the waiver as are necessary to protect the prime wetland resource.
- Any waiver issued shall be valid for the term of the permit or SPN with which it is associated, but may be extended.

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PART II: WAIVER REQUEST FOR ACTIVITIES OTHER THAN FOREST MANAGEMENT

SECTION 1 - REQUESTED WAIVER AND FILING FEE (Env-Wt 706.04(b)(5))

Check or money order for the applicable filing fee payable to "Treasurer – State of NH" (RSA 482-A:3, I(c)).

- ☐ $200 for projects that would otherwise qualify as a minimum impact project if it was not located in a designated prime wetlands buffer.
- ☐ $500 for a minor impact project that does not otherwise qualify as minimum or major impact project.
- ■ $1,250 for a major impact projects.

SECTION 2 - PROPOSED WORK (Env-Wt 706.04(b)(2))

Provide a written description of the work to be performed.

The Peverly Hill Road Reconstruction Project in the City of Portsmouth includes reconstruction improvements of the roadbed, construction of an improved stormwater system, and narrowing of the roadway to provide two 11-foot travel lanes and 2-foot shoulders, a shared-use path on the south side of the roadway, and a pedestrian sidewalk on the north side of the roadway. The proposed project will require impacts to prime wetland buffers resulting from slope impacts and stormwater treatment. The following wetland impacts are anticipated: 4,230 square feet (SF) of permanent wetland impacts (310 SF are Prime Wetland), 2,443 SF of temporary wetland impacts (180 SF are Prime Wetland), 10,152 SF of permanent undeveloped tidal buffer zone (TBZ)/prime wetland buffer impacts and 2,190 SF of temporary undeveloped TBZ/prime wetland buffer impacts. Impacts within developed prime wetland buffer have not been quantified. These impacts will be located within the existing roadway footprint that is located within the prime wetland buffer.

SECTION 3 - PRIME WETLANDS VALUES (Env-Wt 706.04(b))

Provide a list of the prime wetlands values identified by the municipality when the prime wetlands associated with the buffer was designated. Demonstrate that the project will not create a significant net loss of these wetland values.

Prime wetlands values were determined by the City of Portsmouth Prime Wetland Analysis submitted January 2011.

Functions and values of the prime wetland adjacent to Greenleaf Ave consist of ecological integrity, finfish/shellfish/wildlife habitat, rare species habitat, educational/scientific value, and critical fisheries habitat.

Functions and values of the prime wetland adjacent to Banfield Road consist of ecological integrity, wildlife habitat, and educational/scientific value.

The project will not result in a net loss of these wetland functions and values. Impacts to the prime wetland buffer adjacent to Banfield Road will be limited to the footprint of the existing roadway. Impacts to the prime wetland buffer adjacent to Greenleaf Avenue will be limited to the construction of a proposed gravel wetland. This stormwater treatment area will provide treatment for roadway runoff, which will ensure that water quality within Sagamore Creek is not impacted by roadway infrastructure. One of the primary functions and values of the prime wetland buffer is to help protect water quality of the adjacent prime wetlands. The proposed gravel wetland will serve the same purpose as the prime wetland buffer. Additionally, the buffer will remain vegetated following construction. The area of disturbance will be seeded and plantings will be provided around the gravel wetland.

SECTION 4 - REQUIRED ATTACHMENTS (Env-Wt 706.04)

- ■ A sketch of the property depicting the best approximate location of the duly-established 100-foot buffer in which work is proposed and the location of proposed work, including access roads.
- ■ Other information to demonstrate that there will be no significant net loss of wetland values identified by the municipality when the prime wetlands associated with the buffer was designated.

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SECTION 5 - ADDITIONAL INSTRUCTIONS (Env-Wt 706.04; RSA 482-A:11, IV(c))

☐ At the time the applicant submits the waiver request to the department, the applicant also shall notify, ***by certified mail***, the local governing body, the planning board, if any, and the conservation commission, if any, of the municipalities in which the waiver is being sought that the waiver is being requested.

☐ If the buffer associated with the application extends onto an abutting property, the property owner requesting the waiver shall provide notice that the waiver is being requested to the owner of that abutting property.

Please note:

- As provided in Env-Wt 706.05, the department shall not issue a waiver under Env-Wt 706.01(b) prior to 14 days after receipt of the waiver request, provided however that a municipal conservation commission may request an extension on such waiver issuance, not to exceed 14 days, which the department shall grant if and as requested.
- The department shall not issue a waiver unless the department determines that there will be no significant net loss of wetland values as identified by the local conservation commission/local governing authority and in RSA 482-A:1.
- If the department determines that the criteria for issuing a waiver are met, the waiver shall be issued as part of the SPN or permit, as applicable.
- If the department is unable to determine, based on the information submitted, that the proposed work will not cause a significant net loss of wetland values, the department shall notify the applicant of what additional information is needed and establish a deadline in consultation with the applicant for the submission of the additional information.
- If the department determines that the project would not cause a significant net loss of wetland values if certain conditions were met, the department shall place such conditions on the waiver as are necessary to protect the prime wetlands resource.
- Any waiver issued shall be valid for the term of the permit or SPN with which it is associated, but may be extended.

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Supplemental Project Narrative

SECTION 1 | Project Location and Background

The proposed project is located at 124 Heritage Avenue which is identified as Map 284 Lot 8 on the City of Portsmouth Tax Maps. The property is a 5.8-acre parcel that is located in the City's Industrial (I) Zone. The property is bound to the west by Heritage Avenue, 280-282 Heritage Avenue Industrial property to the north, and undeveloped City owned parcels to the south and east. The site currently operates as a multi-tenant industrial/commercial building.

The proposed project consists of the construction of a garden for the use of one of the building's tenants, Gather. The garden will be located in the front of the existing building in what is currently a maintained lawn area. An ADA accessible ramp is proposed to provide access to the garden from the existing parking lot. A grass-lined stormwater conveyance swale is also proposed adjacent to the garden to improve stormwater management. The project will include additional site improvements outside of jurisdictional areas, including parking lot re-striping, lighting, and landscaping. Site figures are provided in Appendix A and a Photographic Log depicting existing site conditions is provided in Appendix B.

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SECTION 2 | Delineation and Classification of Wetland Resource Areas

On October 21, 2025, a Tighe & Bond New Hampshire Certified Wetland Scientist (CWS) delineated wetland resource areas within the vicinity of the site and evaluated each relative to the applicable local, state, and federal criteria. Wetland resource areas in the vicinity of the proposed work were delineated in accordance with the United States Army Corps of Engineers' (USACE) *Wetlands Delineation Manual and Regional Supplement* (2012), *Field Indicators for Identifying Hydric Soils in New England* (Version 4, 2017), the *New Hampshire Code of Administrative Rules: Delineation and Classification of Jurisdictional Areas* (Chapter Env-Wt 400), and Chapter 10 of the Portsmouth Zoning Ordinance. The evaluation also included a review of publicly available data such as LiDAR elevation data and historic aerial imagery.

Wetland boundaries were marked in the field with alphanumerically labeled survey flagging tape. Flags were located by GPS and by a licensed land surveyor. Local weather yielded approximately 1.51-inches of rain in the week prior to the field delineation, including 0.60 inches in the 24-hour period immediately preceding the delineation. According to the U.S. Drought Monitor, Rockingham County was also experiencing Moderate to Severe Drought at the time of the delineation.[1]

2.1 Summary of Delineated Natural Resource Areas

Two freshwater wetlands, demarcated by Flag Series 1A and 2A, and one intermittent stream, demarcated by Flag Series 1B and 2B were identified within the vicinity of the project site. Wetland 2A is a municipally-designated Prime Wetland with a duly-established 100-foot Prime Wetland buffer. As per Chapter 10 of the Portsmouth Zoning Ordinance, wetlands present on site are afforded a 100-foot wetland buffer. A summary of delineated wetlands by flagging series is presented in Table 2-1.

TABLE 2-1 Summary of Delineated Wetland Resource Areas by Flag Series

Wetland ID	Flag Series	Flag Numbers	Resource Area Type	Classification*	PRA†
1	1A	1 – 43	Freshwater Wetland	PFO1E	No
	1B	1 – 4	Intermittent Stream	R4UB1	No
2	2A	1 – 9	Freshwater Wetland	PSS1E/PEM1F	Yes
	2B	1 - 3	Intermittent Stream	R4UB3	Yes

* Classification of Wetlands and Deepwater Habitats of the United States by Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe. 1979.

†Priority Resource Area, as defined by New Hampshire Department of Environmental Services (NHDES) Administrative Rule Env-Wt 103.68.

[1] U.S. Drought Monitor. 2025. National Drought Mitigation Center, USDA, and NOAA. Available at: https://droughtmonitor.unl.edu

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2.1.2 Freshwater Wetlands

Freshwater (non-tidal) wetlands are defined at RSA 482-A:2, X as "*…an area that is inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal conditions does support, a prevalence of vegetation typically adapted for life in saturated soil conditions.*"

SERIES 1A

Series 1A defines the limits of a freshwater wetland present to the north, east and south of the site. This wetland is classified as a palustrine, forested, broad-leaved deciduous, seasonally flood/saturated (PFO1E) wetland. Dominant wetland vegetation observed on-site included red maple (*Acer rubrum,* FAC), musclewood (*Carpinus caroliniana,* FAC), American elm (*Ulmus americana,* FACW), winterberry (*Ilex verticillata,* FACW), spicebush (*Lindera benzoin,* FACW), glossy buckthorn (*Frangula alnus,* FAC), cinnamon fern (*Osmundastrum cinnamomeum*, FACW), creeping buttercup (*Ranunculus repens,* FAC), sensitive fern (*Onoclea sensibilis,* FACW), and poison ivy (*Toxicodendron radicans,* FAC). Hydric soils consisted of eight inches of mucky sandy (10YR 2/1) underlain by sand (2.5YR 5/2) with prominent redox concentrations (7.5 YR 4/6) observed in the matrix. Soils met hydric indicators S1 (Sandy Mucky Mineral) and S7 (Dark Surface). Indicators of hydrology include water-stained leaves, geomorphic position, microtopographic relief, and the FAC-Neutral Test.

Dominant vegetation in adjacent uplands consisted of red oak (*Quercus rubra,* FACU), American beech (*Fagus grandifolia,* FACU), American elm, witch hazel (*Hamamelis virginiana,* FACU), winterberry, glossy buckthorn, sensitive fern, rough goldenrod, and poison ivy. Upland soils consisted of loam with dominant soil matrix color 2.5YR 4/3. Prominent redox concentrations (7.5YR 4/6) were observed within the soil profile starting at nine inches below the surface.

SERIES 2A

Series 2A defines the limits of a freshwater wetland located southwest of Heritage Avenue. The portion of this wetland closest to the roadway is classified as palustrine scrub-shrub, broad-leaved deciduous, seasonally flooded-saturated (PSS1E). The interior of this wetland is dominated by herbaceous vegetation, exhibits longer periods of inundation, and is classified as palustrine emergent, persistent, semi-permanently flooded (PEM1F). Dominant wetland vegetation observed within Wetland 2A included red maple, speckled alder (*Alnus serrulata,* OBL), common reed (*Phragmites australis*), narrowleaf cattail (*Typha angustifolia,* OBL), highbush blueberry (*Vaccinium corymbosum,* FACW), glossy buckthorn, and rough goldenrod. Soil consisted of six inches of muck (10YR 2/1) underlain by ten inches of mucky loam (10YR 2/1), and met hydric soil indicator A4 (Hydrogen Sulfide). Indicators of hydrology included surface water, high water table (0 inches), hydrogen sulfide odor, geomorphic position, shallow aquitard (i.e., restrictive layer at 16-inches), and the FAC-neutral test.

Uplands adjacent to the delineated portion of Wetland 2A consisted of the road embankment to Heritage Avenue. Observed upland vegetation predominately consisted of maintained lawn with red maple, glossy buckthorn and multiflora rose also present. The road embankment consisted of compacted fill. Observed vegetation within undisturbed uplands adjacent to Wetland 2A included white oak (*Quercus alba,* FACU), eastern hemlock (*Tsuga canadensis,* FACU), and American beech. Soil consisted of loam with matrix colors 10YR 2/1 in the upper two inches, followed by four inches of 10YR 3/2 underlain by loam with matrix color 7.5YR 3/4 to a depth of ten inches, at which point a restrictive layer was encountered.

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2.2 Intermittent Stream

Flag Series 1B and 2B define two sections of an unnamed intermittent stream that flows northwesterly from Wetland 1A to Wetland 2A and is conveyed beneath Heritage Avenue via a culvert. The upper reach of this stream (Flag Series 1B) is classified as a riverine, intermittent, unconsolidated cobble-gravel bottom system (R4UB1), while the downstream reach associated with Flag Series 2B is classified as a riverine, intermittent, unconsolidated mud bottom system (R4UB3). Observed vegetation within the stream bed and associated stream banks included narrowleaf cattail, sensitive fern, American burnweed (*Erechtites hieraciifolius,* FACU), and climbing nightshade (*Solanum dulcamara,* FAC).

2.3 Priority Resource Areas

In accordance with New Hampshire Department of Environmental Services (NHDES) Administrative Rule Env-Wt 103.68 the site was evaluated for the potential presence of Priority Resource Areas (PRA).

2.3.1 Documented Occurrences of Protected Species or Habitat

A Datacheck with the New Hampshire Department of Environmental Services Ecological Review Section was completed on May 28, 2026 (DCT26-1245). Based on the results of the Datacheck, the project is not expected to impact state-listed protected species or exemplary natural communities, or critical habitat.

2.3.2 Bogs

Bogs are a type of peatland, distinguished by stunted evergreen trees and shrubs, peat deposits, poor drainage, and highly acidic conditions. The NHDES Land Resources Management Permit Planning Tool indicated the potential presence of peatlands within Wetland 1A. During the October 2025 delineation, Tighe & Bond documented vegetation and soils present within a portion of Wetland 1A mapped as potential peatland. Soil observed within Wetland 1A displayed a marked gradient along the northern edge of the project site with mineral soil present along the upland boundary that transitioned to organic soil toward the northeast (i.e., toward the wetland interior). Observed organic soil within the interior of Wetland 1A consisted of nine inches of sapric material (i.e., muck) underlain by mucky modified mineral soils.

Observed vegetation within portions of Wetland 1A mapped as potential peatland included, but was not limited to, red maple, cinnamon fern, winterberry, highbush blueberry, spice bush, balsam fir (*Abies balsamea,* FAC), sweetgale (*Myrica gale,* OBL), and several species of sedges (*Carex spp.*). Sphagnum moss was also observed along the forest floor. The potential peatlands were observed to have a red-maple dominated overstory, whereas bogs are typically more open and are dominated by shrubs, stunted evergreens, and herbaceous plants. As such, identified peatlands were more characteristic of a Red Maple – Sphagnum Basin Swamp[2] than a bog. The Red Maple – Sphagnum Basin Swamp ecological community has a State Conservation Status Rank of S4 (Apparently Secure) and is not classified as a PRA.

[2] Sperduto, D.D. and William F. Nichols. 2004. Natural Communities of New Hampshire. NH Natural Heritage Bureau, Concord, NH. Pub. UNH Cooperative Extension, Durham, NH.

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2.3.3 Designated Prime Wetland and 100-foot Prime Wetland Buffer

Wetland 2A is a municipally-designated Prime Wetland with a duly-established 100-foot Prime Wetland buffer. The Prime Wetland designation was established in 2011 by the City of Portsmouth pursuant to RSA 482-A:15 and subsequently accepted by the NHDES (NHDES Wetland File Number: 2011-00261). The Prime Wetland and 100-foot buffer are regulated as Priority Resource Areas (PRAs) pursuant to Env-Wt 103.68(d) and (e), respectively.

Wetland 2A was designated as a Prime Wetland by the City of Portsmouth due to its ecological significance, including the presence of open water habitat, a diverse wetland complex, and its potential to support rare species and wildlife habitat.[3] Wetland 2A is part of the larger Pickering Brook wetland system, which has been recognized by the City of Portsmouth for its significant water quality, wildlife habitat, and hydrologic functions. Consistent with RSA 482-A:15, Prime Wetlands are significant based on factors such as their size, unspoiled character, fragile condition, ecological functions, and habitat value. The duly-established 100-foot buffer to Wetland 2A within the vicinity of the project sites consists of Heritage Avenue, driveway entrances, and maintained lawn associated with 124 Heritage Avenue.

2.4 Functions and Values Assessment

Tighe & Bond conducted a functions and values assessment of Wetlands 1A and 2A based on field observations, site photographs, and publicly available GIS data. Assessment criteria were adapted from RSA 482-A and the U.S. Army Corps of Engineers, New England District, Highway Methodology Workbook Supplement – Wetland Functions and Values: A Descriptive Approach (NAEEP-360-1-30a; September 1999). Wetlands 1A and 2A were evaluated for Ecological Integrity, Wetland-Dependent Wildlife Habitat, Fish and Aquatic Life Habitat, Scenic Quality, Educational Potential, Recreation, Flood Storage, Groundwater Recharge, Nutrient Trapping/Retention/Transformation, Sediment Trapping, Shoreline Anchoring, and Noteworthiness. USACE Wetland Function-Value Evaluation Forms are provided in Appendix C.

2.4.1 Ecological Integrity

Ecological Integrity refers to the overall health and stability of a wetland ecosystem. Limited invasive species were observed within Wetlands 1A and 2A, and both wetlands are connected to surrounding undeveloped upland forest and wetland habitats. Wetland 1A contains Red Maple–Sphagnum Basin Swamp habitat and is part of an approximately 54-acre unfragmented mosaic of wetlands and upland forests. Wetland 1A is also hydrologically connected to Wetland 2A through a culvert beneath Heritage Avenue.

Wetland 2A is designated as a Prime Wetland by the City of Portsmouth due to its unique open water habitat, diverse wetland complex, and potential to support rare species. An approximately 70-acre unfragmented mosaic of wetlands and upland forests surrounds Wetland 2A.

Due to the size, connectivity, and quality of natural habitat associated with these wetlands within an otherwise developed landscape, both wetlands exhibit Ecological Integrity.

[3] City of Portsmouth Prime Wetlands Analysis Report, prepared by West Environmental, Inc. for the Portsmouth Conservation Commission and Planning Department (October 2006). https://files.cityofportsmouth.com/files/planning/prime_rpt.PDF.pdf

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2.4.2 Wetland-Dependent Wildlife, Fish, and Aquatic Life Habitat

Wetland-Dependent Wildlife, Fish, and Aquatic Life Habitat considers the suitability of a wetland to provide habitat for wildlife species, fish, and other aquatic organisms. Wetlands 1A and 2A are associated with relatively large areas of undeveloped land and provide a diversity of wetland and upland habitats. The presence of jurisdictional wetlands, combined with their connectivity to surrounding undeveloped areas, supports habitat for wetland-dependent wildlife species. Although an intermittent stream is associated with both wetlands, permanent aquatic habitat was not observed within the vicinity of the project site. Pond habitat within Wetland 2A was identified as a factor contributing to its Prime Wetland designation, which measures approximately ¼ acre in size according to aerial imagery. Given the lake of permanent aquatic habitat in Wetland 1A and the limited extent of the open water habitat in Wetland 2A, these wetlands are more likely to support wetland-dependent wildlife than fish or other aquatic organisms. Accordingly, Wetland-Dependent Wildlife Habitat is considered a suitable or principal function of both wetlands. Fish and Aquatic Life Habitat is not considered a principal function of either wetland.

2.4.3 Scenic Quality/Recreation/Education Potential

Scenic Quality evaluates a wetland's visual and aesthetic qualities, Recreation considers its ability to support recreational activities, and Educational Potential evaluates its suitability for education and research. Wetlands 1A and 2A are located within an area zoned "Industrial" with limited public access or visibility. As a result, neither wetland is likely to provide significant scenic, recreational, or educational value.

2.4.4 Flood Storage

According to the FEMA map for the site (Map No. 33015C0270F; effective January 29, 2021), neither Wetland 1A nor Wetland 2A is located within the 100-year floodplain. However, both wetlands likely provide temporary storage of stormwater runoff from Heritage Avenue and the surrounding developed landscape during precipitation events. Given their size and position within the local watershed, both wetlands are likely to provide important flood storage capacity. Accordingly, Flood Storage is considered a principal function of Wetlands 1A and 2A.

2.4.5 Groundwater Recharge

Groundwater Recharge refers to the ability of a wetland to recharge and/or discharge groundwater and its interaction with underlying aquifers. Soils observed within both wetlands consist of organic or mucky-modified material overlying mineral substrates. Soils within Wetland 2A and the southern portion of Wetland 1A are mapped as very poorly drained, while the remaining portions of Wetland 1A are mapped as poorly drained, indicating prolonged saturation and sustained groundwater influence. The wetlands also contain intermittent stream channels that provide hydraulic connectivity between shallow groundwater and surface water, supporting groundwater recharge and discharge during seasonal fluctuations in the water table. Wetlands 1A and 2A are located within the Lower Merrimack aquifer transmissivity zone, which is mapped as having a transmissivity of less than 1,000 ft²/day. Based on soil conditions and their location within a mapped aquifer, Groundwater Recharge is considered a principal function of both wetlands.

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2.4.6 Sediment Trapping

Sediment Trapping refers to a wetland's ability to capture and retain sediment transported in runoff from surrounding uplands. This function is influenced by vegetation density and surface roughness, with more densely vegetated wetlands generally providing greater sediment trapping potential. Wetland 1A is a relatively open forested wetland and is therefore likely to provide limited sediment trapping. In contrast, Wetland 2A is a densely vegetated shrub-scrub wetland and is likely to provide substantial sediment trapping capacity for runoff entering the wetland from adjacent developed areas. Accordingly, Sediment Trapping is considered a principal function of Wetland 2A.

2.4.7 Nutrient Trapping/Retention/Transformation

Nutrient Trapping, Retention, and Transformation refers to a wetland's ability to retain, process, and cycle nutrients, thereby reducing the transport of excess nutrients to downstream waters. Both wetlands contain organic or mucky-modified material overlying mineral substrates, indicating that both wetlands have the capacity to retain and transform nutrients. Wetland 2A provides enhanced nutrient retention due to its dense herbaceous vegetation, which slows overland flow, promotes sediment deposition, and increases the opportunity for nutrient uptake and trapping before runoff reaches downstream waters. Accordingly, Nutrient Trapping, Retention, and Transformation is considered a function of Wetland 2A.

2.4.8 Shoreline Anchoring

Shoreline Anchoring refers to a wetland's ability to stabilize shorelines and reduce erosion caused by wave action or flowing water. Both delineated wetlands are palustrine wetlands located in low-energy settings with no significant shoreline erosion processes observed. As a result, Shoreline Anchoring is not considered a suitable function of either wetland.

2.4.9 Noteworthiness

Noteworthiness is a qualitative assessment of whether a wetland possesses one or more outstanding ecological characteristics, such as rare species habitat, unique natural communities, critical wildlife habitat, or other high-value resources.

Wetland 2A has been designated as a Prime Wetland by the City of Portsmouth due to its unique open water habitat, diverse wetland complex, and potential to support rare species. Accordingly, Noteworthiness is considered a principal value of Wetland 2A.

Wetland 1A contains Red Maple–Sphagnum Basin Swamp habitat, which has a State Conservation Status Rank of S4 (Apparently Secure). Based on available information, Noteworthiness is not considered a principal value of Wetland 1A.

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SECTION 3 | Criteria for Standard Permit Applications

The project will result in approximately 11,512 square feet (sf) of permanent impact to the duly established Prime Wetland buffer to Wetland 2A associated with the conversion of a maintained lawn into a community garden, with an ADA-accessible walkway and grass-lined stormwater conveyance swale. It is our understanding that the project will be classified as Major Impact, subject to the requirements for a Standard Dredge & Fill Wetlands Permit Application. The following sections describe how the project has been designed in accordance with the applicable requirements of New Hampshire Administrative Rule Chapter Env-Wt 300.

3.1 Env-Wt 306 Required Planning for All Projects

The project has conducted the necessary planning required by Env-Wt 306, including:

(1) Wetlands and jurisdictional areas were delineated by a NH Certified Wetland Scientist with Tighe & Bond on October 21, 2025.

(2) Tighe & Bond determined that the proposed project location falls within the duly-established 100-foot Prime Wetlands buffer associated with Wetland 2A, a municipally-designated prime wetland.

(3) The project is not located in an area subject to Env-Wt 600 (Coastal Lands and Tidal Waters/Wetlands).

(4) The project is not located within the jurisdiction of a Local River Advisory Committee. The nearest Designated River pursuant to the NH Rivers Management and Protection Program (RA 483:15) is the Squamscott River, located approximately 5.7 miles northwest of the project location. The proposed project is located within upland areas and therefore is not anticipated to be subject to a specific time of year restriction under Env-Wt 307.

(5) Not applicable. No stream crossing projects are proposed as part of this project.

(6) Not applicable. No dredging is proposed as part of this project.

(7) The project falls within the ¼ mile buffer to Pickering Brook, which is listed as an impaired water for chloride, copper, dissolved oxygen saturation and concentration, and *E. coli.* However, the project is not anticipated to impact these impaired waters, as appropriate erosion and sedimentation controls will be utilized during construction to limit off site sediment migration. Neither Class A Surface Waters nor Outstanding Resource Waters are present within the vicinity of the site.

3.2 Abutter Notification

Pursuant to Env-Wt 306.06(a) property abutters have been notified prior to filing this application. As required per Env-Wt 311, a tax map showing the project location, a list containing the name, mailing address, and tax map/lot numbers of abutting property owners, copies of abutter notifications, and copies of certified mailing receipts are provided in Appendix E.

3.3 Env-Wt 307 Conditions Applicable to Activities in Jurisdictional Areas

The following narrative describes the methods and manner by which the project complies with the standard permit conditions specified in Env-Wt 307. Please reference the Project Drawings, provided in Appendix F for details regarding the proposed community garden, associated stormwater conveyance swale, impacts to jurisdictional areas, and construction best management practices (BMPs) to be implemented during the work.

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3.3.1 Protection of Water Quality

The project is not anticipated to cause or contribute to a degradation of water quality standards. Project activities will be conducted to minimize erosion, sedimentation, and turbidity in surface waters and wetlands through the implementation of construction-period BMPs selected based on the nature of the project and the physical characteristics of the site.

3.3.2 Protection of Fisheries and Breeding Areas

Work is situated entirely in uplands and is not anticipated to generate suspended sediment in bird migratory areas nor fish and shellfish spawning or nursery areas. Appropriate BMPs will be used during construction to minimize off-site sedimentation.

3.3.3 Invasive Species

To the greatest extent practicable, work will be conducted in accordance with the *Best Management Practices for the Control of Invasive and Noxious Plant Species Manual (2018).* Material imported to the project (e.g., loam, mulch, straw) will not be sourced from locations where invasive plants are known to occur, and construction activities will avoid and minimize disturbance to existing areas containing invasive plants.

Invasive species observed within the vicinity of the site included glossy buckthorn (*Frangula alnus;* FAC), common reed (*Phragmites australis*; FACW), climbing nightshade (*Solanum dulcamara*; FAC), purple loosestrife (*Lythrum salicaria;* OBL), multiflora rose (*Rosa multiflora*; FACU), and creeping buttercup (*Ranunculus repens*; FAC). While disturbance is limited to maintained lawn and separated from observed invasive species populations, several invasive species identified on site are wind- or avian-dispersed. Disturbance will be kept to the minimum extent practicable to achieve project goals and disturbed areas will by stabilized by planting, seeding, and mulching as soon as possible with native species.

3.3.4 Rare, Threatened, or Endangered Species and Habitat

A NHDES Datacheck Report was filed by Tighe & Bond in May 2026 (DCT26-1245). The results of this Datacheck indicated that no impacts to protected species, exemplary natural communities, nor critical habitat were expected as a result of the project and no further Ecological Review was required. A copy of the NHDES Datacheck findings are provided in Appendix E.

3.3.5 Protection of Designated Prime Wetlands and Duly-Established 100-Foot Buffers

(1) No adverse impacts to the functions and values of the site or surrounding wetlands are anticipated. The addition of native shrubs and native seed mixes is expected to provide a net benefit to the functions and values of the surrounding wetlands. The existing maintained lawn provides limited habitat and ecological value, whereas the proposed native shrubs, groundcovers, and pollinator-friendly plantings will enhance forage and refuge for wildlife. The proposed plantings will support pollinators and other beneficial insects. The community garden will also provide educational and community engagement opportunities that promote environmental stewardship and local food production. The proposed parking lot realignment will reduce impervious surface area within the 100-foot buffer, and the proposed grass-lined swale will improve infiltration and stormwater management. As such, no increase in stormwater runoff to the adjacent wetlands will result as part of this project.

(2) Authorization for disturbance to the duly-established prime wetland buffer is being requested as part of this application.

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3.3.6 Restoration of Temporary Impacts and Site Stabilization

Areas disturbed during construction will be stabilized with mulch, seed and/or straw within three days of the completion of work.

3.4 Env-Wt 311 Application Requirements for Standard Permits

As described above, the project has conducted the necessary planning required by Env-Wt 306.05. As required by Env-Wt 311.07 and Env-Wt 311.10, impacts to jurisdictional areas and their functions and values have been avoided and minimized to the extent practicable. A Functions and Values assessment for the site is provided in Section 2, above.

The proposed project site consists of maintained lawn located in uplands, and is separated from Wetland 2A by Heritage Avenue, a paved roadway. The project has been designed with elements that are intended to enhance the functions and values of the buffer, to include native shrub plantings and a pollinator garden.

3.4.1 Alternatives Considered

The proposed project is focused on the reuse and enhancement of previously developed and maintained areas, and represents the alternative with the least adverse impact to the wetland buffer and adjacent wetland resources. The proposed parking lot reconfiguration will reduce impervious surfaces within the parking area and native plantings are expected to improve wildlife habitat, ecological value, and educational opportunities.

3.4.2 Avoidance and Minimization

Proposed work within the duly-established prime wetland buffer is confined to pre-existing maintained lawn, and the project has been designed to avoid direct wetland impacts. Appropriate erosion and sediment control measures will be implemented during construction to minimize erosion, sedimentation, and turbidity.

3.4.3 Local, State, and Federal Agency Coordination

A Site Review Permit and Conditional Use Permit application was submitted to the City of Portsmouth Planning Department and to the City of Portsmouth Conservation Commission on June 22, 2026 and June 24, 2026, respectively. As of the date of this submission, no comments have been received from either board.

As the proposed project is located entirely within uplands, the project is not subject to jurisdiction under the Clean Water Act nor under the Rivers and Harbors Act. As such, coordination with the United States Army Corps of Engineers (USACE) is not anticipated for the proposed project.

3.4.4 Construction Sequencing

The sequence of construction will be left to the discretion of the selected contractor. Although construction is subject to the means and methods of the selected contractor, the project will generally consist of the following elements .

(1) Install temporary erosion and sediment controls along the limits of work prior to beginning any earth moving activities.

(2) Verify the location of utilities present within the project site.

(3) Mobilize equipment and materials to staging areas.

(4) Conduct ground disturbing activities in accordance with the project plans.

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(5) Install underdrain trench.

(6) Regrade areas in accordance with the project plans.

(7) Stabilize disturbed areas with loam, mulch, straw, and/or native seed.

(8) Demobilize from the site.

(9) Install native shrub plantings by hand during the growing season.

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SECTION 4 | Env-Wt 500 Project Specific Requirements

The proposed project has been designed to comply with the project-specific requirements of Env-Wt 524 for residential, commercial, and industrial development.

4.1 Residential, Commercial, and Industrial Development Criteria

The project has been designed to comply with all applicable requirements of Env-Wt 400, Env-Wt 700, Env-Wt 800, and Env-Wt 900, as described in other sections of this narrative. No use of wetlands nor surface waters for stormwater or water quality treatment is proposed as part of this project. Appropriate BMPs will be utilized during construction, and the project is not expected to negatively impact private and public drinking water supplies, hydrologic connectivity, source water protection areas, nor fisheries. No impacts to existing wetland-dependent wildlife habitat nor associated migratory pathways, reproductive sites, nor wetland complex/community systems are anticipated as part of the proposed work. Proposed work will be conducted in compliance with the project plans submitted as part of this application.

The proposed project complies with the applicable design requirements of Env-Wt 524.04,as follows:

- The project does not utilize wetlands or surface waters for stormwater or water quality treatment.
- Appropriate setbacks and stormwater management measures will protect adjacent water resources.
- The project maintains existing hydrologic connections and is not expected to adversely affect fisheries, fish passage, wetland-dependent wildlife habitat, associated migratory pathways, reproductive sites, or the surrounding wetland community system. And,
- Work will be conducted in accordance with the approved project plans.

Overall, the proposed project has been designed to avoid direct impacts to wetlands and other aquatic resources while enhancing the ecological function of the existing Prime Wetland buffer through native vegetation and improved stormwater management. The proposed work is not anticipated to adversely affect the surrounding wetland system or its functions and values and is consistent with the applicable design requirements of Env-Wt 524.04.

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SECTION 5 | Env-Wt 700 Prime Wetlands

The proposed project includes work within the duly established 100-foot buffer to a municipally designated Prime Wetland and is therefore subject to the supplemental requirements of Env-Wt 700. The following summarizes the project's compliance with these requirements.

5.1 Env-Wt 704 Supplementary Information and Criteria for Project Proposed in Prime Wetlands/Buffer

The project includes work within the duly-established 100-foot buffer to a municipally designated Prime Wetland (Wetland 2A). The proposed work is limited to an existing maintained lawn within the Prime Wetland buffer and is physically separated from the Prime Wetland by Heritage Avenue. No direct impacts to the Prime Wetland, adjacent intermittent stream, or other jurisdictional aquatic resources are proposed. Consistent with Env-Wt 704.02, the following functional assessment and impact analysis demonstrates that the proposed project will not result in a significant net loss of the values protected under RSA 482-A:1.

While surrounding wetlands support important functions and values, the areas proposed to be impacted by this project are dominated by maintained lawn and provide comparatively limited habitat and ecological function relative to the adjacent natural communities. Based on the functional assessment presented in Section 2, the proposed project is not expected to result in a significant net loss of the functions and values of the Prime Wetland or its duly-established buffer. The addition of native shrubs and native seed mixes is expected to provide a net benefit to the functions and values of the surrounding wetlands. The proposed native shrubs, groundcovers, and pollinator-friendly plantings will enhance forage and refuge for wildlife and beneficial insects. The community garden will also provide educational and community engagement opportunities that promote environmental stewardship and local food production.

Additional information is provided in the wetland functions and values assessment (Section 2) and the USACE Wetland Function-Value Evaluation Forms (Appendix C). Accordingly, the proposed project is not expected to result in a significant net loss of Prime Wetland functions or values and is consistent with the approval criteria of Env-Wt 704.

DRAFT

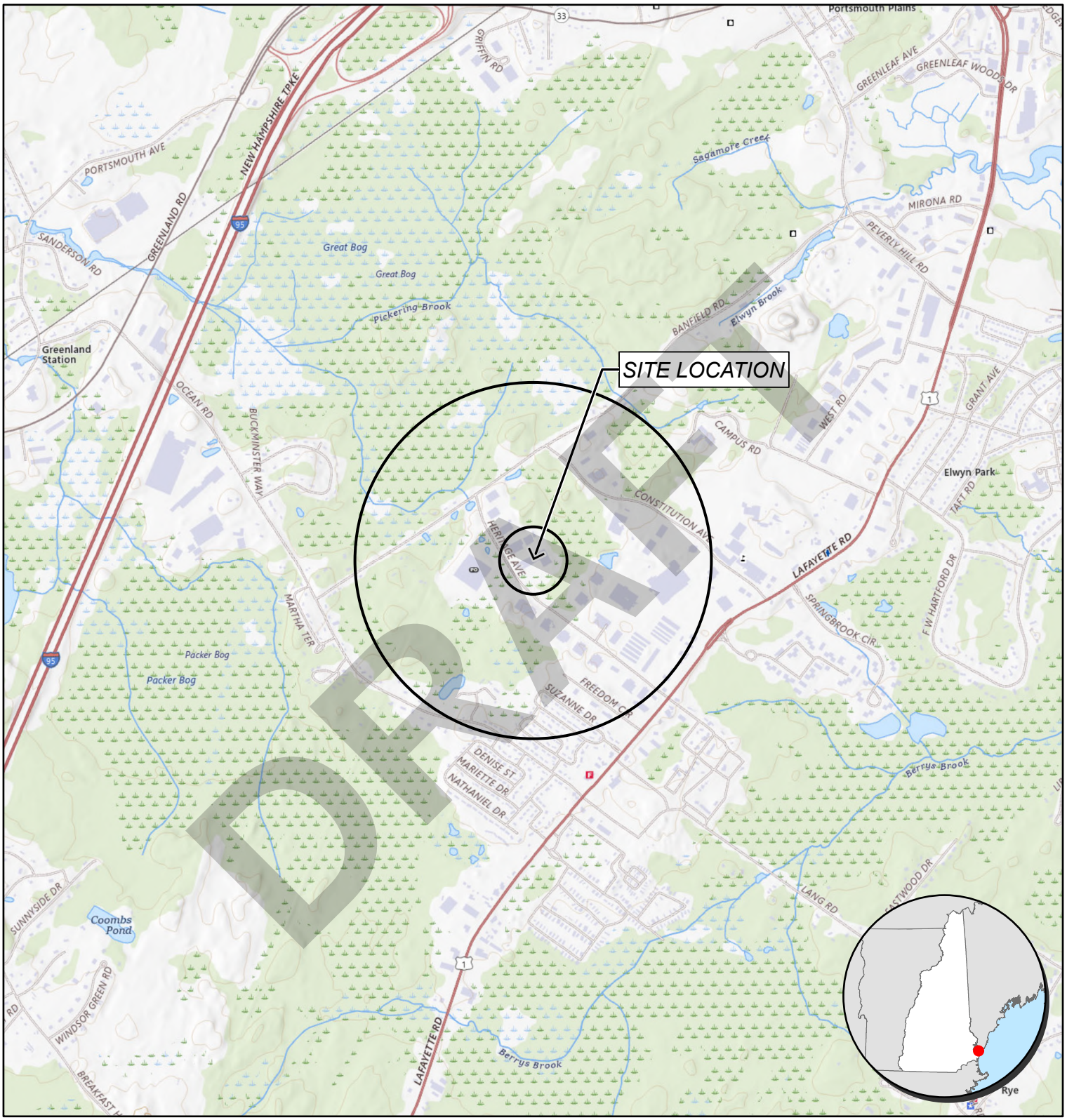
Tighe & Bond

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Appendix A:
Site Figures

FIGURE 1
SITE LOCATION
November 2025

The Kane Company
124 Heritage Avenue
Portsmouth, New Hampshire



Tighe&Bond

Based on USGS The National Map Topo Basemap.
Contour Interval Equals 10 Feet.
Circles indicate 500-foot and half-mile radii.

N

1:24,000
0 1,000 2,000
Feet

G:\GIS\NH\SiteLocus\Portsmouth\KaneCompany_K0076\124HeritageAve_0066\124HeritageAve_0066.aprx\Fig1_Topo_124HeritageAveNH [Exported By: EMainville, 11/7/2025, 10:34 AM]

K-0076

FIGURE 2
AERIAL
December 2025

The Kane Company
124 Heritage Avenue
Portsmouth, New Hampshire



Culvert
Upland Data Plot
Wetland Data Plot
Top of Bank Flag
Freshwater Wetland Flag
Delineated Top of Bank
Delineated Wetland Boundary
100-Foot Buffer Zone
Freshwater Wetland
Approximate Subject Property
Approximate Parcel Boundary

Tighe&Bond

Based on NH GRANIT Color Orthophotography (2021-2022).
Parcel boundaries were provided by NH GRANIT and are approximate.

N
1:1,800
0 75 150
Feet

Figure 3: National Flood Hazard Layer FIRMette

FEMA

70°48'5"W 43°2'19"N



70°47'28"W 43°1'53"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

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) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- 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 *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 11/19/2025 at 1:28 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.

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Appendix B:
Photographic Log

Photographic Log

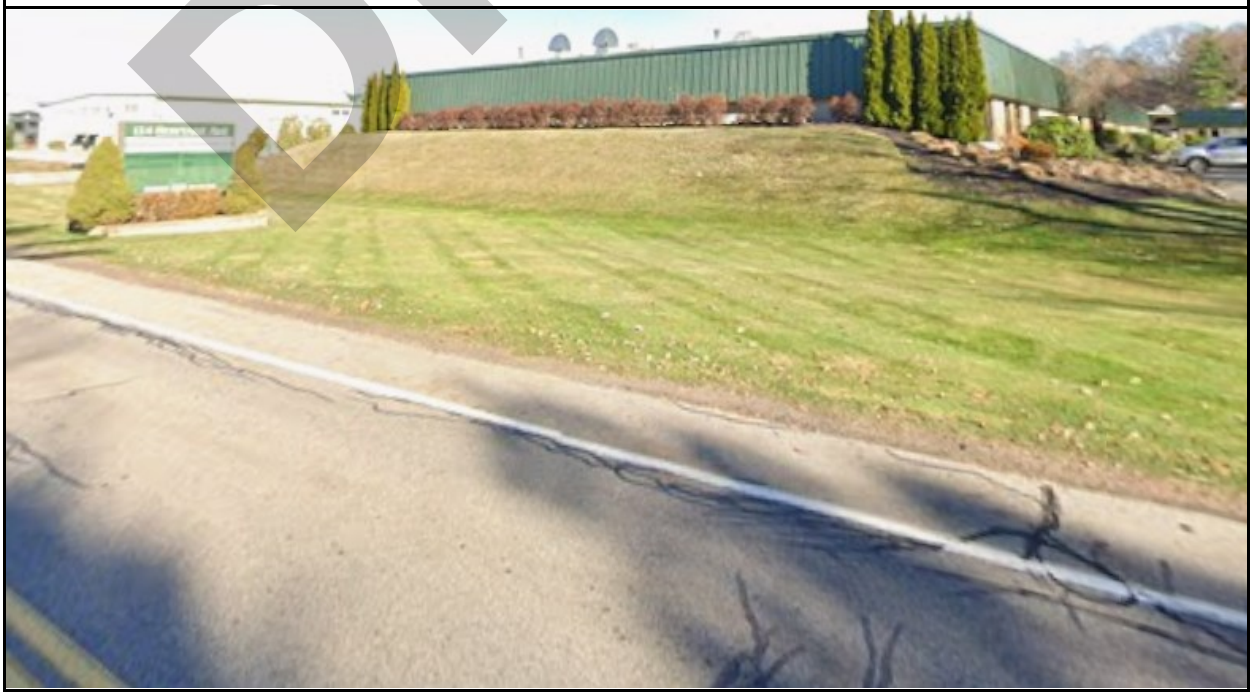
Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 1	**Date:** 4/25/2025	**Direction Taken:** North
Description: Nearmap Imagery depicting the proposed impact area relative to Wetland 2A.		



Photograph No.: 2	**Date:** 11/1/2024	**Direction Taken:** Northwest
Description: Representative view of the maintained lawn where the community garden is proposed.		



DRAFT

Photographic Log

Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 3	**Date:** 10/21/2025	**Direction Taken:** Southeast

Description: Typical view of Wetland 1A.



Photograph No.: 4	**Date:** 10/21/2025	**Direction Taken:** Southwest

Description: Typical view of uplands adjacent to Wetland 1A.



Photographic Log

Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 5	**Date:** 10/21/2025	**Direction Taken:** Northeast
Description: Typical view of mapped peatlands in the vicinity of Wetland 1A. This community was identified as a Red Maple–Sphagnum Basin Swamp (i.e., not a "bog").		



Photograph No.: 6	**Date:** 10/21/2025	**Direction Taken:** North
Description: Alternate view of mapped peatlands in the vicinity of Wetland 1A. This community was identified as a Red Maple Sphagnum-Basin Swamp (i.e., not a "bog").		



Photographic Log

Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 7	**Date:** 10/21/2025	**Direction Taken:** Northwest

Description: Typical view of existing conditions at 124 Heritage Avenue.



Photograph No.: 8	**Date:** 10/21/2025	**Direction Taken:** Southeast

Description: Representative view of the unnamed intermittent stream defined by Flag Series 1B (i.e., northern edge of stream, along delineated OHW).



Photographic Log

Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 9	**Date:** 10/21/2025	**Direction Taken:** Northwest
Description: Typical view of Wetland 2A, a municipally-designated Prime Wetland.		



Photograph No.: 10	**Date:** 10/21/2025	**Direction Taken:** Northwest
Description: Typical view of uplands adjacent to Wetland 2A.		



Photographic Log

Client: 124 Group Inc **Job Number:** K-0076-0066

Site: 124 Heritage Avenue Portsmouth, New Hampshire

Photograph No.: 11	**Date:** 10/21/2025	**Direction Taken:** Southwest
Description: Typical view of the unnamed intermittent stream defined by Flag Series 2B (i.e., northern edge of stream, along delineated OHW).		



Photograph No.: 12	**Date:** 10/24/2025	**Direction Taken:** Southwest
Description: Typical view of undisturbed uplands adjacent to Wetland 2A.		



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Appendix C:
USACE Wetland Function-Value Data Forms

Wetland Function-Value Evaluation Form

Total area of wetland 24.67 acres Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Industrial/Residential Distance to nearest roadway or other development Abutting

Dominant wetland systems present PFO 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? Upper

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Wetland 1A

Latitude 43.03404 Longitude -70.79790

Prepared by: LTF Date 6/11/2026

Wetland Impact:
Type N/A Area N/A

Evaluation based on:
Office ____ 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	3,7,10,15	Y	
Floodflow Alteration	Y	1,2, 5, 6, 7, 8, 9, 15	Y	
Fish and Shellfish Habitat	N		N	No permanent waterbodies observed within or adjacent to Wetland 1A.
Sediment/Toxicant Retention	Y	2,4,7,8,9	Y	
Nutrient Removal	Y	1,4,5,7,8,9,10,11	Y	
Production Export	Y	1,2,4,8	N	
Sediment/Shoreline Stabilization	N	2,3	N	
Wildlife Habitat	Y	3,6,7,8,11,14,15,19	Y	
Recreation	N	12	N	
Educational/Scientific Value	N	2,4	N	
Uniqueness/Heritage	Y	1,5,10,15	N	Wetland 1A is classified as Red Maple - Sphagnum Basin Swamp - State Habitat Rank (S4).
Visual Quality/Aesthetics	N	4,7,11	N	
ES Endangered Species Habitat	N		N	
Other				

Notes:

* Refer to backup list of numbered considerations.

DRAFT

Wetland Function-Value Evaluation Form

Total area of wetland 18.78 acres Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No

Adjacent land use Industrial/Residential /Undeveloped Forests Distance to nearest roadway or other development Abutting

Dominant wetland systems present PSS1E Contiguous undeveloped buffer zone present Yes

Is the wetland a separate hydraulic system? No If not, where does the wetland lie in the drainage basin? Upper

How many tributaries contribute to the wetland? Unknown Wildlife & vegetation diversity/abundance (see attached list)

Wetland I.D. Wetland 2A

Latitude 43.03450 Longitude -70.79775

Prepared by: LTF Date 6/11/2026

Wetland Impact:
Type N/A Area N/A

Evaluation based on:
Office ____ 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	3,7,10,15	Y	
Floodflow Alteration	Y	1,2,5,6,7,8,9,17,18	Y	
Fish and Shellfish Habitat	N	4,14	N	
Sediment/Toxicant Retention	Y	2,3,4,7,8,9	Y	
Nutrient Removal	Y	1,2,3,4,5,6,7,8,9,10,11,12,13,14	Y	
Production Export	Y	1,2,4,7,8,10,12	N	
Sediment/Shoreline Stabilization	N	2,3	N	
Wildlife Habitat	Y	3,5,6,7,8,11,14,15,19,21	Y	
Recreation	N	1,12	N	
Educational/Scientific Value	N	1,2	N	
Uniqueness/Heritage	Y	4,5,10,13,15, 27	Y	Wetland 2A is designated as a Prime Wetland by the City of Portsmouth
Visual Quality/Aesthetics	N	4,7,11	N	
ES Endangered Species Habitat	Y	1	N	
Other				

Notes:

* Refer to backup list of numbered considerations.

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Appendix D:
NHDES Ecological Review

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Robert R. Scott, Commissioner

To: Lucas Fromm, Tighe & Bond
177 Corporate Drive

Portsmouth, NH 03857
From: Ecological Review Section
New Hampshire Department of Environmental Services
Date Issued: 5/28/2026
Expiration Date: 5/28/2027
Re: DataCheck Review by NHDES Ecological Review Section submitted 5/20/2026
Permits: MUNICIPAL POR - Portsmouth, NHDES - Wetlands Standard Dredge & Fill

DCT ID: **DCT26-1245** **Applicant:** 124 Group LLC

Location: Portsmouth
124 Heritage Avenue

Project description: The proposed project will consist of the conversion of approximately 12,000 sf of maintained lawn into a community garden with associated native plantings and a drainage swale. This work will occur within the 100-foot buffer to a municipally-designated Prime Wetland, which is located to the southwest of Heritage Avenue. The work is proposed to be completed in Fall/Winter 2026, with native plantings installed during the next growing season (i.e., Spring 2027).

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The New Hampshire Department of Environmental Services Ecological Review Section has reviewed the provided mapped project area against available records of protected species, exemplary natural communities and critical habitat. Based on the project mapping and submitted information, impacts are not expected, and an ecological review is not required. If the map and project information submitted inaccurately represents the proposed project, a new letter may need to be obtained.

Disclaimer: DataCheck Tool screening only includes occurrences of protected species and exemplary natural communities that have been documented and verified by state biologists and ecologists. This letter does not guarantee protected species and habitat are not present at this location, only that their presence has not been documented and verified by state biologists and ecologists. As many areas have never been surveyed, or have only been surveyed for certain species, on site surveys are the best way to determine the resources present on your site.

Federal Compliance: This letter does not constitute compliance with the federal Endangered Species Act (ESA). There may be federally listed species in New Hampshire that are impacted by your activity not included in this letter. For ESA compliance, please visit the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (iPaC) website for an official list of federally listed species that may be present in your project area. If a federal agency is involved in your project through funding,

permit or other authorization, coordinate your IPaC results with your point of contact at the agency for further ESA review. If there is no federal agency nexus to your project, and you determine through IPaC, habitat evaluations etc. that a project may cause take of a federally listed species, we recommend coordinating with the USFWS' New England Field Office (newengland@fws.gov or 603-223-2541).

DRAFT

Map of project boundaries for: **DCT26-1245**

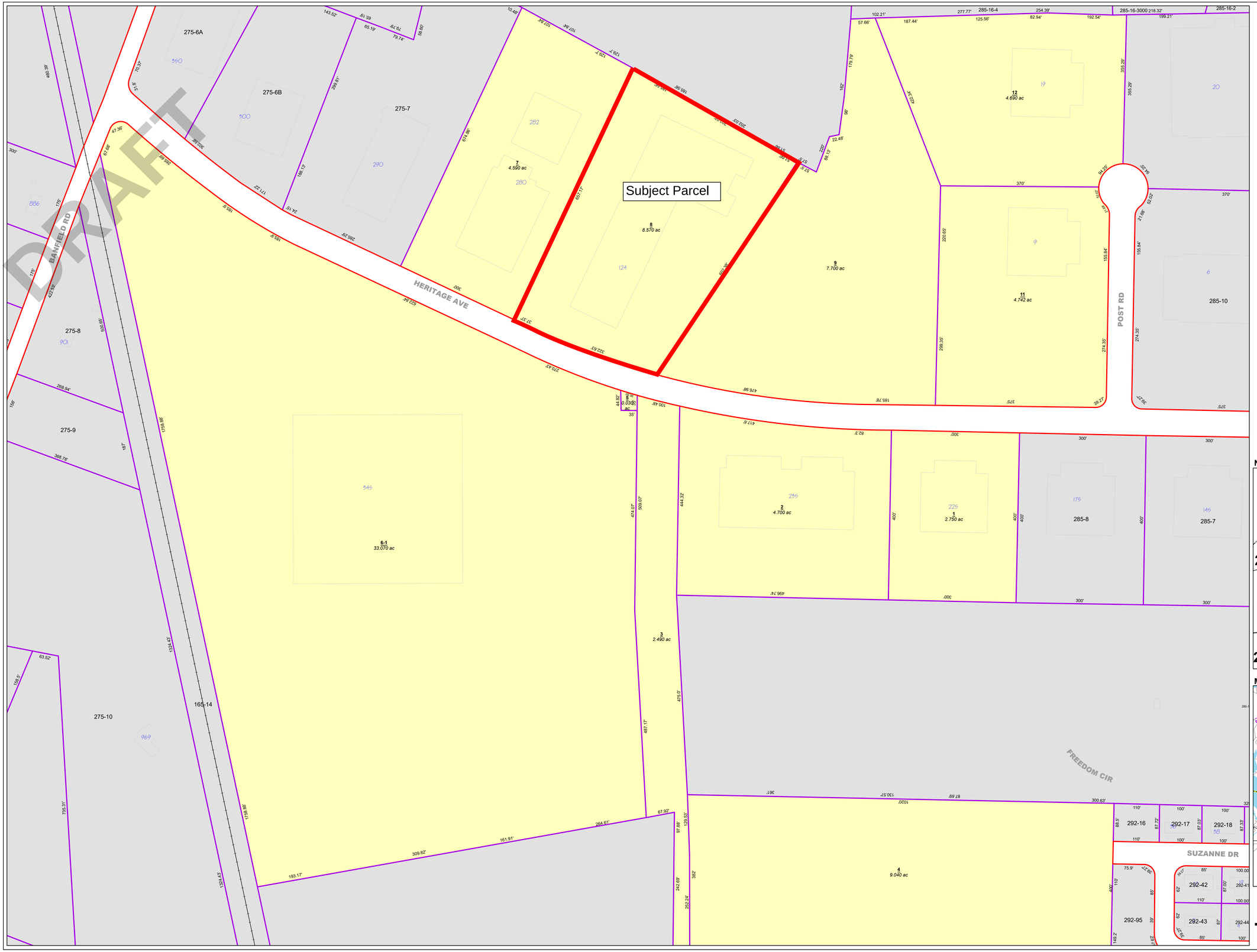


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Appendix E:
Abutter Notification Information



Partial Legend

See the cover sheet for the complete legend.

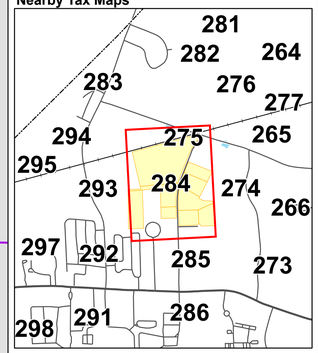
- **7-5A** Lot or lot-unit number
- *2.56 ac* Parcel area in acres (ac) or square feet (sf)
- Address number
- 233-137 Parcel number from a neighboring map
- 68' Parcel line dimension
- SIMS AVE Street name
- Parcel/Parcel boundary
- Parcel/ROW boundary
- Water boundary
- Structure (1994 data)
- Parcel covered by this map
- Parcel from a neighboring map (see other map for current status)

0 50 100 200 300 Feet

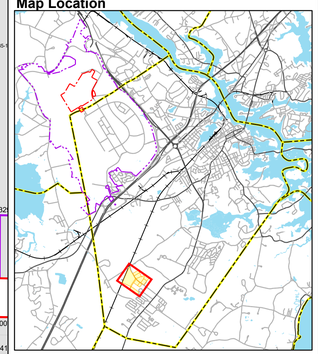
0 20 40 80 Meters

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.

Nearby Tax Maps



Map Location



Portsmouth, New Hampshire
2025

Tax Map 284

List of Abutters to 124 Heritage Avenue

Property ID	Site Address	Owner Name	Owner Address
0274-0003-0000	Banfield Road	City of Portsmouth, Department of Public Works	680 Peverly Hill Road, Portsmouth, NH 03802
0284-0002-0000	235 Heritage Avenue	Cooper Malt LLC	Old Orchard Beach, ME 04064
0284-0003-0000	Heritage Avenue	City of Portsmouth, Conservation Commission	PO Box 6697, Portsmouth, NH 03802
0284-0005-0000	329 Heritage Avenue	City of Portsmouth, Department of Public Works	PO Box 628, Portsmouth, NH 03802
0284-0007-0000	280 Heritage Avenue	280 Heritage Avenue Condo Mastercard, 145 Heritage Avenue Properties LLC	126 Daniel Street, Portsmouth, NH 03801
0284-0009-0000	Heritage Avenue	City of Portsmouth, Conservation Commission	PO Box 6697, Portsmouth, NH 03802
0284-0006-0001	345 Heritage Avenue	United States Postal Service	345 Heritage Avenue, Portsmouth, NH 03801
0284-0007-0001	280 Heritage Avenue #A	Sussex Associates LLC	288 South River Road, Building B, Bedford, NH 03110
0284-0007-0002	280 Heritage Avenue #B	Guernsey Capital LLC	PO Box 552 Rollinsford, NH 03869
0284-0007-0003	280 Heritage Avenue #C	Pointless Properties INC	280 Heritage Avenue, Unit C, Portsmouth, NH 03801
0284-0007-0004	280 Heritage Avenue #D	PDI Realty Trust	67 Meredith Way, Portsmouth, NH 03801
0284-0007-0005	280 Heritage Avenue #E	Comgall Holding LLC	280 Heritage Avenue, Unit E, Portsmouth, NH 03801
0284-0007-0006	280 Heritage Avenue #F	Fired Holdings LLC	280 Heritage Avenue, Unit F, Portsmouth, NH 03801
0284-0007-0007	280 Heritage Avenue #G	Seaside LLC	27 Marble Ridge Road, North Andover, MA 01845
0284-0007-0008	280 Heritage Avenue #H	Fuente Short Story LLC	566 Washington Road, Rye, NH 03870

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List of Abutters to 124 Heritage Avenue

Property ID	Site Address	Owner Name	Owner Address
0284-0007-0009	280 Heritage Avenue #I	Taylor Mary Tap Properties LLC	195 West Road, Portsmouth, NH 03801
0284-0007-0010	280 Heritage Avenue #J	Lussier Debora E. Revocable Trust	2432 SE 28th Street, Cape Coral, FL 33904
0284-0007-0011	282 Heritage Avenue #11	145 Heritage Avenue Properties LLC	126 Daniel Street, Portsmouth, NH 03801
0284-0007-0012	282 Heritage Avenue #12	145 Heritage Avenue Properties LLC	126 Daniel Street, Portsmouth, NH 03801
0284-0007-0013	282 Heritage Avenue #13	145 Heritage Avenue Properties LLC	126 Daniel Street, Portsmouth, NH 03801

DRAFT

PUBLIC NOTICE

NOTICE OF INTENT TO FILE

Please take notice that 124 Heritage Group Inc (applicant) is filing a Standard Dredge & Fill Wetlands Permit application with the New Hampshire Department of Environmental Services (NHDES) for a proposed garden and site improvements project located at 124 Heritage Avenue in Portsmouth, New Hampshire (Town of Portsmouth Tax Map 284 Lot 8).

Plans and details of this application will be available for your review at the City of Portsmouth Clerk's Office, 1 Junkins Avenue, Portsmouth, New Hampshire (8:00am – 6:00pm Monday; 8:00am – 4:30pm Tuesday and Thursday; 9:00am – 4:30pm Wednesday; 8:00 AM – 1:00 PM Friday) or at the NHDES Wetlands Bureau, 29 Hazen Drive, Concord, New Hampshire (8:00am - 4:00pm Monday - Friday).

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Tighe & Bond

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Appendix F:
Project Plans
(Bound Separately)

PROPOSED GARDEN AND SITE IMPROVEMENTS

124 HERITAGE AVENUE
PORTSMOUTH, NEW HAMPSHIRE

DATE: APRIL 29, 2026
LAST REVISED: JULY 22, 2026

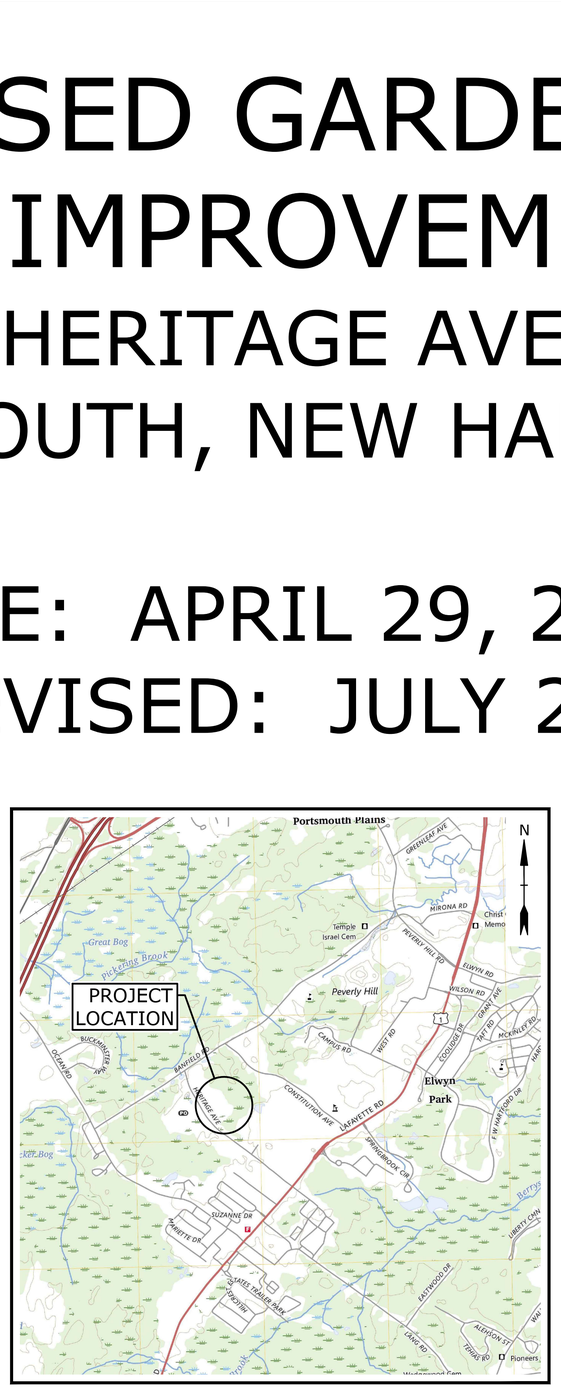
SHEET INDEX	
DRAWING NO.	DRAWING TITLE
-	COVER SHEET
1 OF 1	EXISTING CONDITIONS PLAN
G-001	GENERAL NOTES AND LEGEND
C-101	DEMOLITION PLAN
C-201	SITE PLAN
C-301	GRADING, DRAINAGE, EROSION CONTROL, AND UTILITIES PLAN
C-501	EROSION CONTROL NOTES AND LEGEND
C-502	DETAILS SHEET
LT-101	PHOTOMETRIC PLAN
L-101	PLANTING PLAN

LIST OF PERMITS		
LOCAL	STATUS	DATE
SITE PLAN REVIEW PERMIT	PENDING	
CONDITIONAL USE PERMIT - WETLAND BUFFER	PENDING	
STATE		
NHDES - STANDARD DREDGE AND FILL WETLANDS	NOT SUBMITTED	
FEDERAL		
NPDES - CONSTRUCTION GENERAL PERMIT	NOT SUBMITTED	

CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL NOT RELY ON SCALED DIMENSIONS AND SHALL CONTACT THE ENGINEER FOR CLARIFICATION IF A REQUIRED DIMENSION IS NOT PROVIDED ON THE PLANS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND FOR SITE CONDITIONS THROUGHOUT CONSTRUCTION. NEITHER THE PLANS NOR THE SEAL OF THE ENGINEER AFFIXED HEREON EXTEND TO OR INCLUDE SYSTEMS REQUIRED FOR THE SAFETY OF THE CONTRACTOR, THEIR EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING AND IMPLEMENTING SAFETY PROCEDURES AND SYSTEMS AS REQUIRED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), AND ANY STATE OR LOCAL SAFETY REGULATIONS.

3. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION OF TIGHE & BOND.



SITE LOCATION MAP
SCALE: 1" = 2,000'

PREPARED BY:
Tighe & Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE
7/22/26

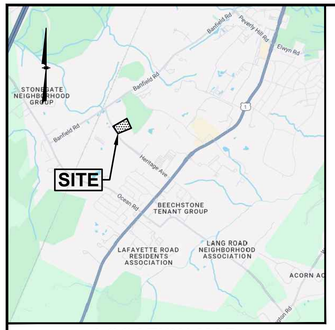
PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER - STATE OF NEW HAMPSHIRE
7/22/26

OWNER/APPLICANT:
ONE TWENTY FOUR GROUP, INC.
210 COMMERCE WAY, SUITE 300
PORTSMOUTH, NH 03801

SURVEYOR:
GREENMAN-PEDERSEN, INC.
21 DANIEL ST., SECOND FLOOR
PORTSMOUTH, NH 03801

TAC SUBMISSION
COMPLETE SET 10 SHEETS

Last Saved: 6/22/2026
Plotted: Jul 22, 2026 - 2:05pm By: BGurcio
Tighe & Bond: J:\KK\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-COVR.dwg



NOTES:

1) OWNER OF RECORD OF MAP 284 LOT 8:
ONE TWENTY FOUR GROUP INC
210 COMMERCE WAY SUITE 300
PORTSMOUTH, NH 03801
DEED REFERENCE: BOOK 3037 PAGE 2641
ROCKINGHAM COUNTY REGISTRY OF DEEDS

2) ZONE: INDUSTRIAL DISTRICT (I)

REFER TO THE CITY OF PORTSMOUTH ZONING ORDINANCE FOR VERIFICATION, ADDITIONAL RESTRICTIONS AND PERMITTED USES.

3) THIS PLAN IS THE RESULT OF AN ON-THE-GROUND FIELD SURVEY PERFORMED BY THIS OFFICE BETWEEN NOVEMBER 3 AND NOVEMBER 21, 2025.

4) BEARINGS SHOWN HEREON ARE BASED ON NAD83 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON NOVEMBER 3, 2025.

5) ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 PER GPS OBSERVATIONS PERFORMED BY THIS OFFICE ON NOVEMBER 3, 2025.

NOTES CONTINUED:

6) LOCATIONS OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE SHOWN BASED ON SURFACE UTILITIES OBSERVED DURING THE FIELD SURVEY AND RECORD UTILITY INFORMATION. ADDITIONAL UNDERGROUND UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED. INVERTS ARE LISTED IN A CLOCKWISE DIRECTION ENDING WITH THE INVERT OUT (UNLESS OTHERWISE NOTED).

7) THE SURVEY TRACT IS IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA (100 YEAR FLOOD) PER FLOOD INSURANCE RATE MAP NUMBER 33015C0270F, WITH AN EFFECTIVE DATE OF JANUARY 29, 2021.

8) A TOTAL OF 181 (177 STANDARD, 4 MARKED AS ACCESSIBLE) CLEARLY IDENTIFIABLE PARKING SPACES WERE OBSERVED IN CONDUCTING THIS SURVEY.

UTILITY NOTES:

WATER SERVICE - PUBLIC WATER - MUNICIPAL

SEWER SERVICE - PUBLIC SEWER - MUNICIPAL

GAS SERVICE - GAS - UNITIL

ELECTRICAL SERVICE - EVERSOURCE

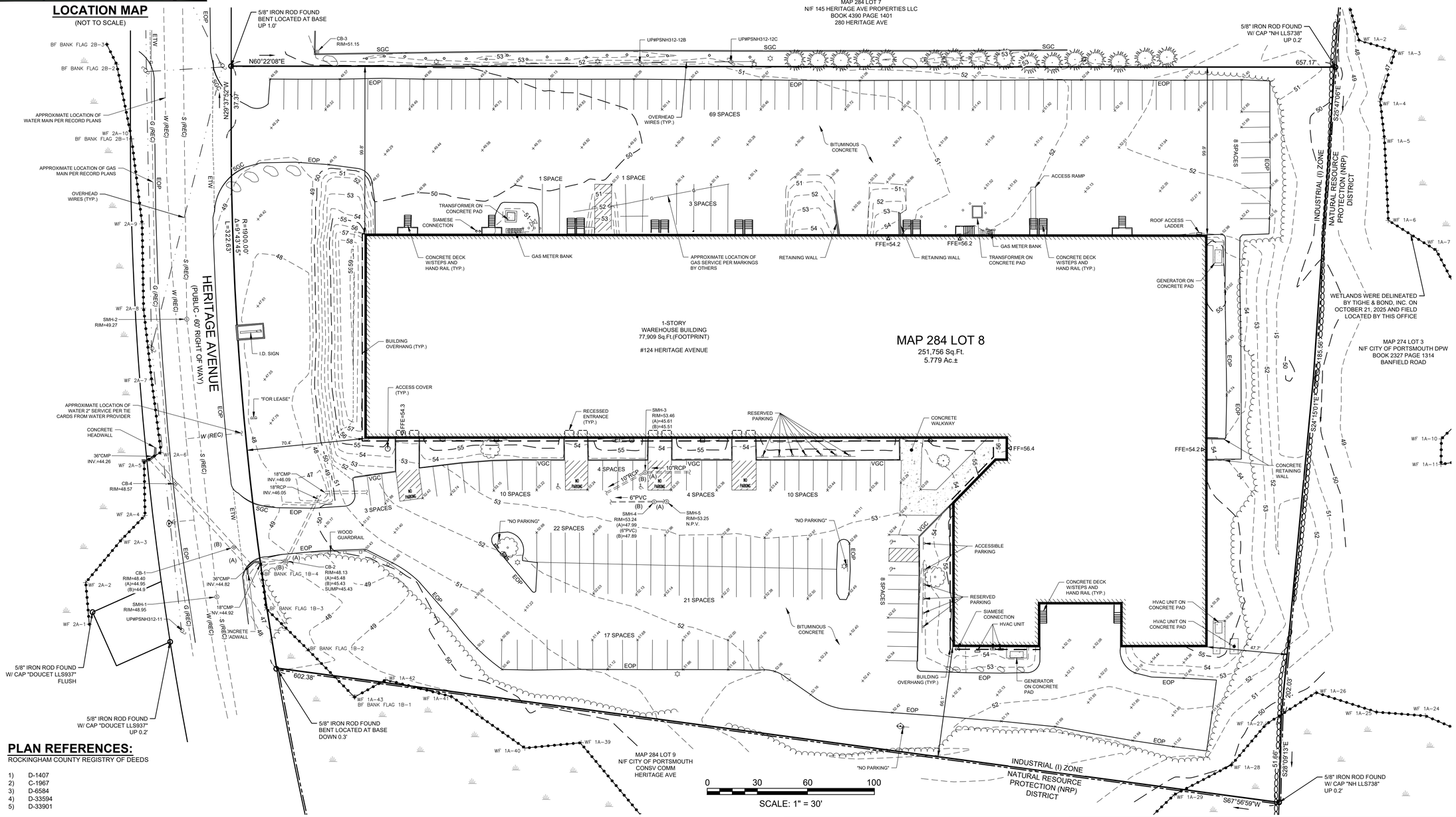
LEGEND

SGC	SLOPED GRANITE CURB	+36.89	SPOT ELEVATION
VGC	VERTICAL GRANITE CURB		CATCH BASIN
E	ELECTRIC UTILITY	V	VENT
G	GAS UTILITY	S	SEWER MANHOLE
OH	OVERHEAD UTILITY		GAS VALVE
W	WATER UTILITY		FIRE HYDRANT
	WOOD GUARDRAIL		BOLLARD
X	HAND RAIL	GM	GAS METER
90	CONTOUR ELEVATION		LIGHT POLE
	TREE		WETLAND LINE
	UTILITY POLE		PROPERTY LINE
	GUY WIRE		ZONE LINE
	PULL BOX/HAND HOLE		ABUTTER PROPERTY LINE
	SIGN		TREELINE

N

NAD 83

LOCATION MAP
(NOT TO SCALE)



PLAN REFERENCES:
ROCKINGHAM COUNTY REGISTRY OF DEEDS

1) D-1407
2) C-1967
3) D-6584
4) D-33594
5) D-33901

GPI Engineering Design Planning Construction Inspection
603.893.0720 GPINET.COM
Greenman-Pedersen, Inc.
44 Stiles Road, Suite One
Salem, NH 03079

PREPARED FOR
TIGHE & BOND, INC.
177 CORPORATE DRIVE
PORTSMOUTH, NH

ASSESSOR MAP 284 LOT 8
124 HERITAGE AVENUE
PORTSMOUTH, NH

STATE OF NEW HAMPSHIRE
No. 1019
SCOTT M. L'ITALIEN
LICENSED LAND SURVEYOR
6/19/2026

NO.	REVISION	DATE
1	WETLAND NOTE	6/19/26

JUNE 16, 2026

DRAWN/DESIGN BY	CHECKED BY
CSS	AKC/SML

EXISTING CONDITIONS PLAN

SCALE: 1"=30'

NEX-2200150.60

1 OF 1

\\MA1-FS3\Vcompany_data\Projects\NEX-2200150 - Tighe & Bond MSA\60 - Portsmouth, NH - 124 Heritage Ave\CAD Files\2200150.60_SV.dwg ECP 6/19/26 12:55pm siallen

EXISTING CONDITIONS PLAN NOTES:

1. EXISTING CONDITIONS ARE BASED ON A FIELD SURVEY BY GREENMAN-PEDERSON INC., DATED DECEMBER 2025.
2. WETLANDS AND AREAS UNDER THE JURISDICTION OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES, PURSUANT TO NH ADMINISTRATIVE RULES CHAPTER ENV-WT 100-900, WERE DELINEATED BY TIGHE & BOND ON OCTOBER 21, 2025 USING THE FOLLOWING METHODOLOGY AND STANDARDS:
   - REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION 2.0) JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
   - NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA.
   - U.S. ARMY CORPS OF ENGINEERS. (2023). 2022 NATIONAL WETLAND PLANT LIST, VERSION 3.6. U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, VICKSBURG, MS. HTTP://WETLAND-PLANTS.USACE.ARMY.MIL/
   - NEW HAMPSHIRE ADMINISTRATIVE RULE CHAPTER ENV-WT 406, DELINEATION AND CLASSIFICATION OF JURISDICTIONAL AREAS, EFFECTIVE DECEMBER 15, 2019.

GENERAL NOTES:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
2. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE APPROXIMATE AND THE LOCATIONS ARE NOT GUARANTEED BY THE OWNER OR ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES, ANTICIPATE CONFLICTS, REPAIR EXISTING UTILITIES, AND RELOCATE EXISTING UTILITIES REQUIRED TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES. CALL DIG SAFE AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION/CONSTRUCTION ACTIVITIES.
4. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION (E.G., EXISTING UTILITIES) SHOWN ON THESE DRAWINGS IS NOT GUARANTEED AND SOME SUBSURFACE INFORMATION MAY NOT BE SHOWN. DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL SUBSURFACE FEATURES WHICH MAY AFFECT CONSTRUCTION OPERATIONS BY TEST PIT OR OTHER METHODS, AS NECESSARY TO PREVENT DAMAGE TO UTILITIES AND OTHER SUBSURFACE FEATURES, AND/OR INTERRUPTIONS IN UTILITY SERVICE. PROVIDE DATA COLLECTED THROUGH THESE INVESTIGATIONS TO THE ENGINEER PRIOR TO CONSTRUCTING THE PROPOSED IMPROVEMENTS.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UTILITIES IDENTIFIED DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE DRAWINGS OR THAT DIFFER IN SIZE OR MATERIAL
6. THE CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY; COORDINATION WITH THE OWNER, ALL SUBCONTRACTORS, AND WITH OTHER CONTRACTORS WORKING WITHIN THE LIMITS OF WORK, THE MEANS AND METHODS OF CONSTRUCTING THE PROPOSED WORK.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR AND COMPLY WITH ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES & SPECIFICATIONS.
9. THE CONTRACTOR SHALL COORDINATE ALL WORK WITHIN PUBLIC RIGHT OF WAY WITH THE CITY OF PORTSMOUTH.
10. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.
11. THE CONTRACTOR SHALL SUBMIT AS-BUILT PLANS IN DIGITAL FORMAT (.DWG AND .PDF FILES) TO THE OWNER AND ENGINEER UPON COMPLETION OF THE PROJECT. AS-BUILTS SHALL BE PREPARED AND CERTIFIED BY A NEW HAMPSHIRE LICENSED LAND SURVEYOR AND SHALL INCLUDE A FULL TOPOGRAPHY SURVEY WITHIN THE LIMITS OF WORK INCLUDING BUT NOT LIMITED TO SITE TOPOGRAPHY, SITE FEATURES, (BUILDINGS, ROADS, CURBS, SIDEWALK, ETC.), STORM DRAINAGE, AND SURFACE & SUBSURFACE UTILITIES.
12. BEFORE ANY DEWATERING IS PERFORMED A TEMPORARY DISCHARGE PERMIT FROM THE NHDES IS REQUIRED.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY TRAFFIC CONTROL/SAFETY DEVICES TO ENSURE SAFE VEHICULAR AND PEDESTRIAN ACCESS THROUGH THE WORK AREA, OR FOR SAFELY IMPLEMENTING DETOURS AROUND THE WORK AREA. PERFORM TRAFFIC CONTROL IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLAN.
14. WHEN WORKING IN THE RIGHT OF WAY, THE CONTRACTOR SHALL PROVIDE THE OWNER AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES A DETAILED PLAN OF APPROACH INDICATING METHODS OF PROPOSED TRAFFIC ROUTING ON A DAILY BASIS, AND COORDINATION TO ENSURE COMMUNICATION AND COORDINATION BETWEEN THE OWNER, THE CONTRACTOR AND LOCAL FIRE/POLICE/SCHOOL AUTHORITIES THROUGHOUT THE CONSTRUCTION PERIOD.
15. THE CONTRACTOR SHALL MAINTAIN EMERGENCY ACCESS TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES DURING CONSTRUCTION.
16. NOTIFY THE ENGINEER IN WRITING OF ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY WITH THE PLANS OR BETWEEN THE PLANS AND ANY APPLICABLE LAW, REGULATION, CODE, STANDARD SPECIFICATION, OR MANUFACTURER'S INSTRUCTIONS.
17. TIGHE & BOND ASSUMES NO RESPONSIBILITY FOR ANY ISSUES, LEGAL OR OTHERWISE, RESULTING FROM CHANGES MADE TO THESE DRAWINGS WITHOUT WRITTEN AUTHORIZATION FROM TIGHE & BOND.
18. REMOVAL OR CUTTING OF VEGETATION WITHIN WETLAND BUFFER AREAS SHALL ONLY BE COMPLETED UNDER THE REQUIREMENTS AND RESTRICTIONS SET FORTH BY THE CITY OF PORTSMOUTH ZONING ORDINANCE SECTION 10.1018.23.
19. THE USE OF FERTILIZERS, PESTICIDES, AND HERBICIDES WITHIN WETLAND BUFFER AREAS SHALL BE LIMITED BY THE RESTRICTIONS SET FORTH BY THE CITY OF PORTSMOUTH ZONING ORDINANCE SECTIONS 10.1018.24 AND 10.1018.25.

DEMOLITION NOTES:

1. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE START OF ANY CLEARING OR DEMOLITION ACTIVITIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR SUPPORT OF EXISTING UTILITIES AND REPAIR OR REPLACEMENT COSTS OF UTILITIES DAMAGED DURING CONSTRUCTION, WHETHER ABOVE OR BELOW GRADE. REPLACE DAMAGED UTILITIES IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER AND AT NO COST TO THE PROPERTY OWNER.
3. ANY EXISTING WORK OR PROPERTY DAMAGED OR DISRUPTED BY CONSTRUCTION/ DEMOLITION ACTIVITIES SHALL BE REPLACED OR REPAIRED TO MATCH ORIGINAL EXISTING CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. CONTRACTOR SHALL VERIFY ORIGIN OF ALL DRAINS AND UTILITIES PRIOR TO REMOVAL/TERMINATION TO DETERMINE IF DRAINS OR UTILITY ARE ACTIVE, AND SERVICES ANY ON OR OFF-SITE STRUCTURE TO REMAIN. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY OF ANY SUCH UTILITY FOUND AND SHALL MAINTAIN THESE UTILITIES UNTIL PERMANENT SOLUTION IS IN PLACE.
5. ALL MATERIALS SCHEDULED TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DISPOSE OF ALL MATERIALS OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, ORDINANCES AND CODES.
6. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ITEMS ONLY AS SPECIFICALLY IDENTIFIED ON THE DRAWINGS. IF IF IS UNCLEAR TO THE CONTRACTOR WHETHER AN ITEM SHOULD BE REMOVED, THEY SHALL COORDINATE WITH THE OWNER AND/OR ENGINEER PRIOR TO REMOVAL.
7. REMOVE TREES AND BRUSH AS REQUIRED FOR COMPLETION OF WORK. CONTRACTOR SHALL GRUB AND REMOVE ALL STUMPS WITHIN LIMITS OF WORK AND DISPOSE OF OFF-SITE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK, EXCEPT FOR WORK NOTED TO BE COMPLETED BY OTHERS.
9. THE CONTRACTOR SHALL COORDINATE; REMOVAL, RELOCATION, DISPOSAL, ABANDONMENT, OR SALVAGE OF UTILITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANY.
10. UTILITIES SHALL BE TERMINATED AT THE MAIN LINE PER UTILITY COMPANY STANDARDS. THE CONTRACTOR SHALL REMOVE ALL ABANDONED UTILITIES LOCATED WITHIN THE LIMITS OF WORK, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.
11. SAW CUT AND REMOVE PAVEMENT ONE (1) FOOT OFF PROPOSED EDGE OF PAVEMENT OR EXISTING CURB LINE IN ALL AREAS WHERE PAVEMENT TO BE REMOVED ABUTS EXISTING PAVEMENT OR CONCRETE TO REMAIN.
12. PAVEMENT REMOVAL LIMITS ARE SHOWN FOR CONTRACTOR'S CONVENIENCE. ADDITIONAL PAVEMENT REMOVAL MAY BE REQUIRED DEPENDING ON THE CONTRACTOR'S OPERATION. CONTRACTOR TO VERIFY FULL LIMITS OF PAVEMENT REMOVAL PRIOR TO BID.
13. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL UTILITIES TO BE REMOVED AND PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
14. THE CONTRACTOR SHALL REMOVE AND SALVAGE EXISTING GRANITE CURB FOR REUSE.
15. THE CONTRACTOR SHALL PHASE DEMOLITION AND CONSTRUCTION AS REQUIRED TO PROVIDE CONTINUOUS SERVICE TO EXISTING BUSINESSES AND HOMES THROUGHOUT THE CONSTRUCTION PERIOD. EXISTING BUSINESS AND HOME SERVICES INCLUDE, BUT ARE NOT LIMITED TO ELECTRICAL, COMMUNICATION, FIRE PROTECTION, DOMESTIC WATER AND SEWER SERVICES. TEMPORARY SERVICES, IF REQUIRED, SHALL COMPLY WITH ALL FEDERAL, STATE, LOCAL AND UTILITY COMPANY STANDARDS. CONTRACTOR SHALL PROVIDE DETAILED CONSTRUCTION SCHEDULE TO OWNER PRIOR TO ANY DEMOLITION/CONSTRUCTION ACTIVITIES AND SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
16. THE CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT DEMOLITION AND CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED SURVEYOR TO REPLACE DISTURBED MONUMENTS.
17. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.
18. BOLD LINETYPES AND FEATURES SHOWN WITHIN THE LIMITS OF WORK INDICATE SITE FEATURES TO BE REMOVED, WHILE FADED LINETYPES AND FEATURES ARE TO REMAIN, UNLESS SPECIFICALLY IDENTIFIED OTHERWISE.

SITE NOTES:

1. PAVEMENT MARKINGS, INCLUDING BUT NOT LIMITED TO; PARKING SPACES, STOP BARS, ADA SYMBOLS, PAINTED ISLANDS, CROSS WALKS, ARROWS, LEGENDS, AND CENTERLINES, SHALL BE CONSTRUCTED AS SHOWN ON THE DRAWINGS AND DETAILS, AND SHALL MEET THE FOLLOWING REQUIREMENTS:
   - ALL ON-SITE PAVEMENT MARKINGS SHALL BE CONSTRUCTED USING WHITE TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248 TYPE "F".
   - ALL PAVEMENT MARKINGS WITHIN PUBLIC RIGHT OF WAY SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, AND APPLICABLE DEPARTMENT OF TRANSPORTATION (DOT), STANDARD SPECIFICATIONS.
2. ALL PAVEMENT MARKINGS AND SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" CURRENT EDITION, "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" CURRENT EDITION, AND THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE ARCHITECTURAL BARRIERS ACT (ABA).
3. THE CONTRACTOR SHALL EMPLOY A NEW HAMPSHIRE LICENSED LAND SURVEYOR TO DETERMINE ALL LINES AND GRADES.
4. CLEAN AND COAT VERTICAL FACE OF EXISTING PAVEMENT AT SAW CUT LINE WITH RS-1 EMULSION IMMEDIATELY PRIOR TO PLACING NEW BITUMINOUS CONCRETE.
5. THE CONTRACTOR TO PROVIDE BACKFILL AND COMPACTION AT CURB LINE AFTER CONCRETE FORMS FOR SIDEWALKS AND PADS HAVE BEEN STRIPPED.
6. ALL LIGHT POLE BASES NOT PROTECTED BY A RAISED CURB SHALL BE PAINTED YELLOW.
7. ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WALL DESIGN FROM STRUCTURAL ENGINEER AND/OR WALL MANUFACTURER. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO CONSTRUCT WALL IN ACCORDANCE WITH DESIGN APPROVED BY THE ENGINEER. RETAINING WALL SHALL BE SEGMENTAL BLOCK WALL SYSTEM AS OUTLINED IN THE DETAILS.
9. PROPERTY MANAGER WILL BE RESPONSIBLE FOR TIMELY SNOW REMOVAL FROM ALL PUBLIC WALKS, DRIVES, AND PARKING AREAS ON-SITE. SNOW SHALL BE HAULED OFF-SITE AND LEGALLY DISPOSED OF, WHEN NECESSARY, WHEN SNOW STORAGE AREAS HAVE REACHED CAPACITY.
10. PROPERTY MANAGER AND/OR TENANT(S) SHALL MONITOR PALLET STORAGE AREAS IDENTIFIED ON THE PLANS. PALLETS SHALL BE BE HAULED OFF-SITE AND LEGALLY DISPOSED OF, WHEN NECESSARY, WHEN PALLET STORAGE AREAS HAVE REACHED CAPACITY.

GRADING AND DRAINAGE NOTES:

9. GENERAL COMPACTION REQUIREMENTS:
   - BELOW PAVED OR CONCRETE AREAS: 95%
   - TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL: 95%
   - BELOW LOAM AND SEED AREAS: 90%
   - * ALL PERCENTAGES OF COMPACTION SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH ASTM D-1557, METHOD C FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH ASTM D-1556 OR ASTM-2922.
2. ALL STORM DRAINAGE PIPES SHALL BE HIGH DENSITY POLYETHYLENE (HANCOR HI-Q, ADS N-12 OR EQUAL) OR RCP CLASS IV, UNLESS OTHERWISE SPECIFIED.
3. SEE UTILITY PLAN FOR ALL SITE UTILITY INFORMATION.
4. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
5. THE CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK AREAS ADJACENT TO THE BUILDING.
6. PROVIDE SITE GRADING AT ACCESSIBLE SIDEWALK RAMPS, SIDEWALKS, AND BUILDING ENTRANCES THAT IS CONSISTENT WITH THE RELEVANT ACCESS REQUIREMENTS OF THE ARCHITECTURAL BARRIERS ACT (ABA), THE AMERICANS WITH DISABILITIES ACT (ADA). SMALL CHANGES IN GRADE OVER RELATIVELY SHORT DISTANCES (E.G. AT PARKING SPACES, ACCESSIBLE ROUTES, AND RAMPS) MIGHT NOT BE CLEARLY DEPICTED WITHIN THE CONTOUR INTERVAL SHOWN. COMPLY WITH THE CRITERIA IN THESE STANDARDS. SELECT MAXIMUM SLOPE CRITERIA ARE REPRODUCED BELOW:
   - ACCESSIBLE PARKING STALLS AND PASSENGER LOADING ZONES (IN ANY DIRECTION) SHALL BE < 2.0%
   - LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES SHALL BE < 5.0%
   - CROSS SLOPE ALONG ACCESSIBLE ROUTES SHALL BE < 2.0%
7. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CATCH BASINS AND DRAIN LINES, WITHIN THE LIMIT OF WORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION.
8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES.
9. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED SHALL RECEIVE 6" LOAM, SEED FERTILIZER AND MULCH.
10. ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4' SUMPS.
11. THE CONTRACTOR SHALL VERIFY INVERTS OF EXISTING DRAIN LINES AND STRUCTURES AT PROPOSED DRAINAGE CONNECTION LOCATIONS PRIOR TO CONSTRUCTION AND IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES.

UTILITY NOTES:

1. COORDINATE ALL UTILITY WORK WITH APPROPRIATE UTILITY COMPANY.
   - NATURAL GAS - UNITIL
   - WATER - CITY OF PORTSMOUTH
   - SEWER - CITY OF PORTSMOUTH
   - ELECTRIC - EVERSOURCE
   - COMMUNICATIONS - CONSOLIDATED COMM/FAIRPOINT/COMCAST
2. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
3. THE CONTRACTOR SHALL MAINTAIN UTILITY SERVICES TO ABUTTING PROPERTIES THROUGHOUT CONSTRUCTION.
4. ALL ELECTRICAL MATERIAL WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRIC CODE, CURRENT EDITION, AND ALL APPLICABLE STATE AND LOCAL CODES.
5. THE EXACT LOCATION OF NEW UTILITY SERVICES AND CONNECTIONS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS AND THE APPLICABLE UTILITY COMPANIES.
6. ADJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE.
7. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
8. THE CONTRACTOR SHALL OBTAIN, PAY FOR, AND COMPLY WITH ALL REQUIRED PERMITS, ARRANGE FOR ALL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.
9. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL MANHOLES, BOXES, FITTINGS, CONNECTORS, COVER PLATES, AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THESE DRAWINGS TO RENDER INSTALLATION OF UTILITIES COMPLETE AND OPERATIONAL.
10. SAW CUT AND REMOVE PAVEMENT AND CONSTRUCT PAVEMENT TRENCH PATCH FOR ALL PROPOSED UTILITIES LOCATED IN EXISTING PAVEMENT AREAS TO REMAIN.
11. CONTRACTOR SHALL COORDINATE ALL ELECTRIC WORK INCLUDING BUT NOT LIMITED TO: CONDUIT CONSTRUCTION, MANHOLE CONSTRUCTION, UTILITY POLE CONSTRUCTION, OVERHEAD WIRE RELOCATION, AND TRANSFORMER CONSTRUCTION WITH POWER COMPANY.
12. THE CONTRACTOR SHALL PHASE UTILITY CONSTRUCTION, PARTICULARLY WATER MAIN AND GAS MAIN CONSTRUCTION AS TO MAINTAIN CONTINUOUS SERVICE TO ABUTTING PROPERTIES. CONTRACTOR SHALL COORDINATE TEMPORARY SERVICES TO ABUTTERS WITH THE UTILITY COMPANY AND AFFECTED ABUTTER.
13. SITE LIGHTING SPECIFICATIONS, CONDUIT LAYOUT AND CIRCUITRY FOR PROPOSED SITE LIGHTING AND SIGN ILLUMINATION SHALL BE PROVIDED BY THE PROJECT ELECTRICAL ENGINEER.

ABBREVIATIONS

ABDN'(D)	ABANDON(ED)	FF	FINISH FLOOR	PRC	POINT OF REVERSE CURVATURE
AC	ASBESTOS CEMENT PIPE	FM	FORCE MAIN	PROT	PROTECT
APPROX	APPROXIMATE	G	GAS	PSF	POUNDS PER SQUARE FOOT
BC	BITUMINOUS CURB	GG	GAS GATE	PSI	POUNDS PER SQUARE INCH
BFP	BACK FLOW PREVENTOR	GRAN	GRANITE	PT	POINT OF TANGENCY
BIT	BITUMINOUS	HC	HANDICAP	PVC	POLYVINYLCHLORIDE
BL	BASELINE	HDPE	HIGH DENSITY POLYETHYLENE	PVMT	PAVEMENT
BLDG	BUILDING			R	RADIUS
BND	BOUND	HMA	HOT MIX ASPHALT	RCP	REINFORCED CONCRETE PIPE
BOC	BOTTOM OF CURB	HYD	HYDRANT	RD	ROOF DRAIN
BOT	BOTTOM	IN	INCHES	REV	REVISION
BS	BOTTOM OF STEP	INV	INVERT	ROW	RIGHT OF WAY
BW	BOTTOM OF WALL	IP	IRON PIN	RT	RIGHT
CATV	CABLE TELEVISION	L	LENGTH OF CURB	R&D	REMOVE AND DISPOSE
CB	CATCH BASIN	LP	LIGHT POLE	R&R	REMOVE AND RESET
CCW	CEMENT CONCRETE WALK	LT	LEFT	R&S	REMOVE AND STACK
CEM	CEMENT	MAX	MAXIMUM	S	SOUTH
CI	CAST IRON PIPE	MH	MANHOLE	SAN	SANITARY
CL	CENTERLINE	MIN	MINIMUM	SCH	SCHEDULE
CLF	CHAIN LINK FENCE	MISC	MISCELLANEOUS	SF	SQUARE FOOT
CO	CLEAN OUT	MON	MONUMENT	SMH	SEWER MANHOLE
CONC	CONCRETE	MJ	MECHANICAL JOINT	SS	STAINLESS STEEL
CPP	CORRUGATED POLYETHYLENE PIPE	N	NORTH	STA	STATION
		NTC	NOT IN THIS CONTRACT	STL	STEEL
CY	CUBIC YARD	NTS	NOT TO SCALE	STRM	STORM
DH	DRILL HOLE	N/A	NOT APPLICABLE	T	TANGENT LENGTH
DI	DUCTILE IRON PIPE	N/F	NOW OR FORMERLY	TC	TOP OF CURB
DIA	DIAMETER	OC	ON CENTER	TEL	TEL-DATA
DMH	DRAIN MANHOLE	OCS	OUTLET CONTROL STRUCTURE	TP	TEST PIT
E	EAST			TS	TOP OF STEP
EF	EACH FACE	OH	OVERHEAD	TW	TOP OF WALL
EG	EXISTING GRADE	PB	PLANT BED	TYP	TYPICAL
EL/ELEV	ELEVATION	PC	POINT OF CURVATURE	UP	UTILITY POLE
ELEC	ELECTRIC	PCC	POINT OF COMPOUND CURVATURE	W	WATER
EMH	ELECTRIC MANHOLE			WG	WATER GATE
EOP	EDGE OF PAVEMENT	PCPP	PERFORATED CORRUGATED POLYETHYLENE PIPE	WV	WATER VALVE
EW	EACH WAY			XFMR	TRANSFORMER
EXIST	EXISTING	PERF	PERFORATED		
FES	FLARED END SECTION	PI	POINT OF INTERSECTION		

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		PROPERTY LINE
		ADJACENT PROPERTY LINE
		RIGHT OF WAY (ROW) LINE
		EASEMENT LINE
		ZONING DISTRICT BOUNDARY LINE (APPROX)
		BUILDING SETBACK LINE
8	8	INTERMEDIATE CONTOURS
10	10	INDEX CONTOURS
44.45	44.45	SPOT / APPROX SPOT GRADE
	2%	MAGNITUDE & DIRECTION OF SLOPE
		LIMIT OF WETLANDS WATER COURSE
		LIMIT OF VEGETATED WETLAND
PEM1F		WETLAND CLASSIFICATION TYPE
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 25 FEET)
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 50 FEET)
		LIMIT OF LOCAL WETLAND BUFFER (ZONE - 100 FEET)
		LIMIT OF WORK (APPROX)
		LIMIT OF SAWCUT (APPROX)
		LIMIT OF EROSION CONTROL (APPROX)
		INLET PROTECTION
		PAVEMENT / CONCRETE SECTION TO BE REMOVED (APPROX)
		EDGE OF PAVEMENT
VGC	VGC	VERTICAL GRANITE CURB
SGC	SGC	SLOPED GRANITE CURB
	15"R	CURB RADIUS
		PAVEMENT SECTION
		CONCRETE SIDEWALK & TIP DOWN RAMP
X	X	FENCE
		GUARDRAIL
		LIGHT POLE / BASE
		SIGN
		BOLLARD
		SNOW STORAGE (APPROX)
	STOP	PAVEMENT STRIPING
		TREE LINE (APPROX)
		STONE WALL
		RETAINING WALL
SD		STORM DRAIN
		STORM UNDERDRAIN
D		STORM DRAIN MANHOLE
		STORM DRAIN INLETS
		FLARED END SECTION & RIP RAP APRON
SS	SS	GRAVITY SANITARY SEWER
XS	XS	GRAVITY SANITARY SEWER (APPROX)
S		SANITARY SEWER STRUCTURES
W	W	WATER SERVICE
XW	XW	WATER SERVICE (APPROX)
WV	WV THRUST BLOCK	WATER SERVICE STRUCTURES
E	E	UNDERGROUND ELECTRIC
XE	XE	UNDERGROUND ELECTRIC (APPROX)
OHE	OHE	OVERHEAD UTILITY (UNSPECIFIED)
COM	T-C	UNDERGROUND COMMUNICATIONS SERVICE
E T	E T	UNDERGROUND ELECTRIC / COMMUNICATIONS SERVICE STRUCTURES
		UTILITY POLE
G	G	GAS SERVICE
XG	XG	GAS SERVICE (APPROX)
	GV	GAS SERVICE STRUCTURES
		DECIDUOUS TREE
		EVERGREEN TREE
		ORNAMENTAL TREE
		SHRUBS / GROUND COVERS

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
7/22/26

PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER
STATE OF NEW HAMPSHIRE
7/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

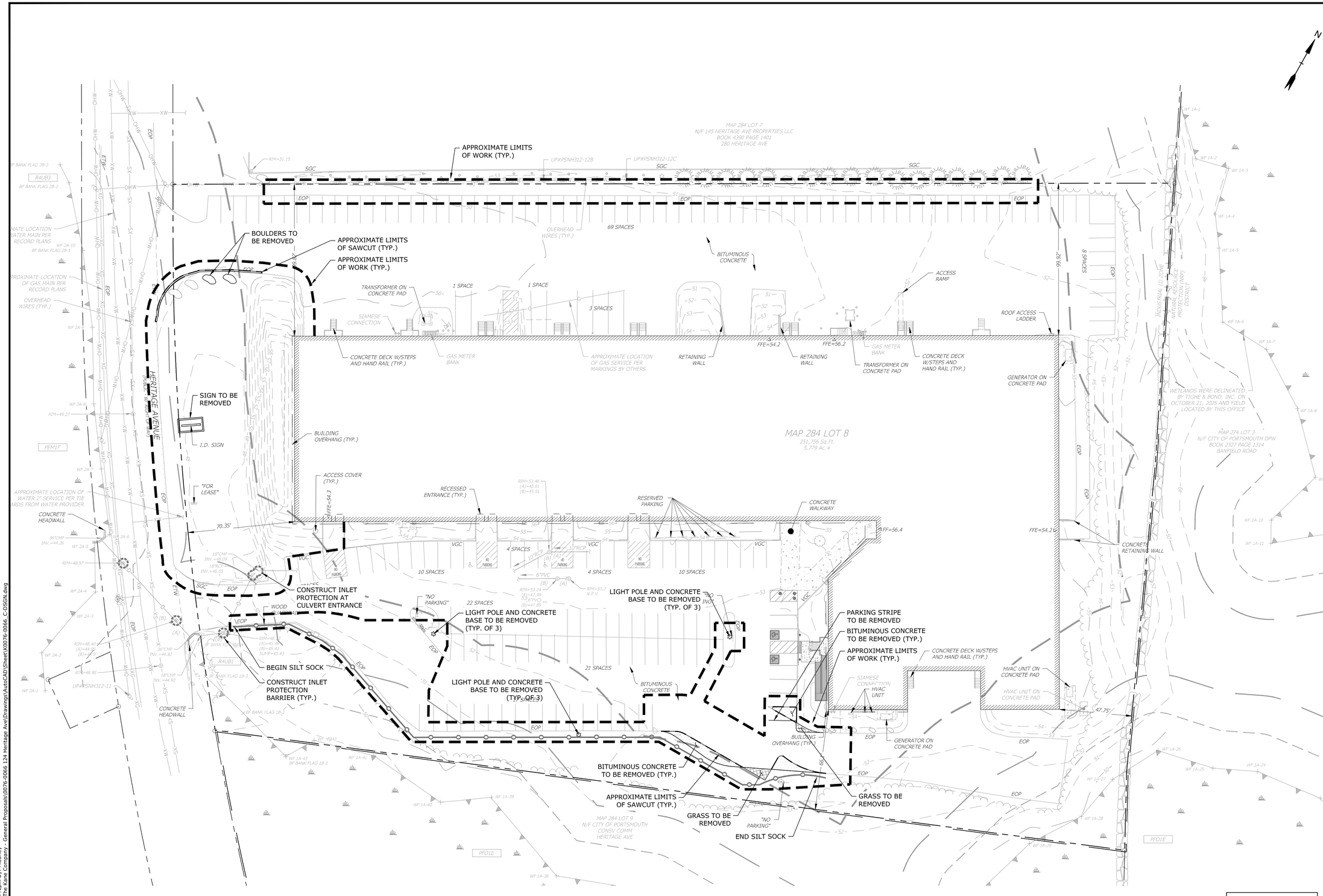
PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DSGN.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

GENERAL NOTES AND LEGEND

SCALE:

G-001

Last Saved: 7/8/2026
Printed: Jul 22, 2026 - 1:58pm By: BCurcio
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STATE OF NEW HAMPSHIRE
STEFANIE M. TETREAULT
No. 315
CERTIFIED WETLAND SCIENTIST
06/22/2026

STATE OF NEW HAMPSHIRE
NEIL A. HANSEN
No. 15227
LICENSED PROFESSIONAL ENGINEER
6/22/26

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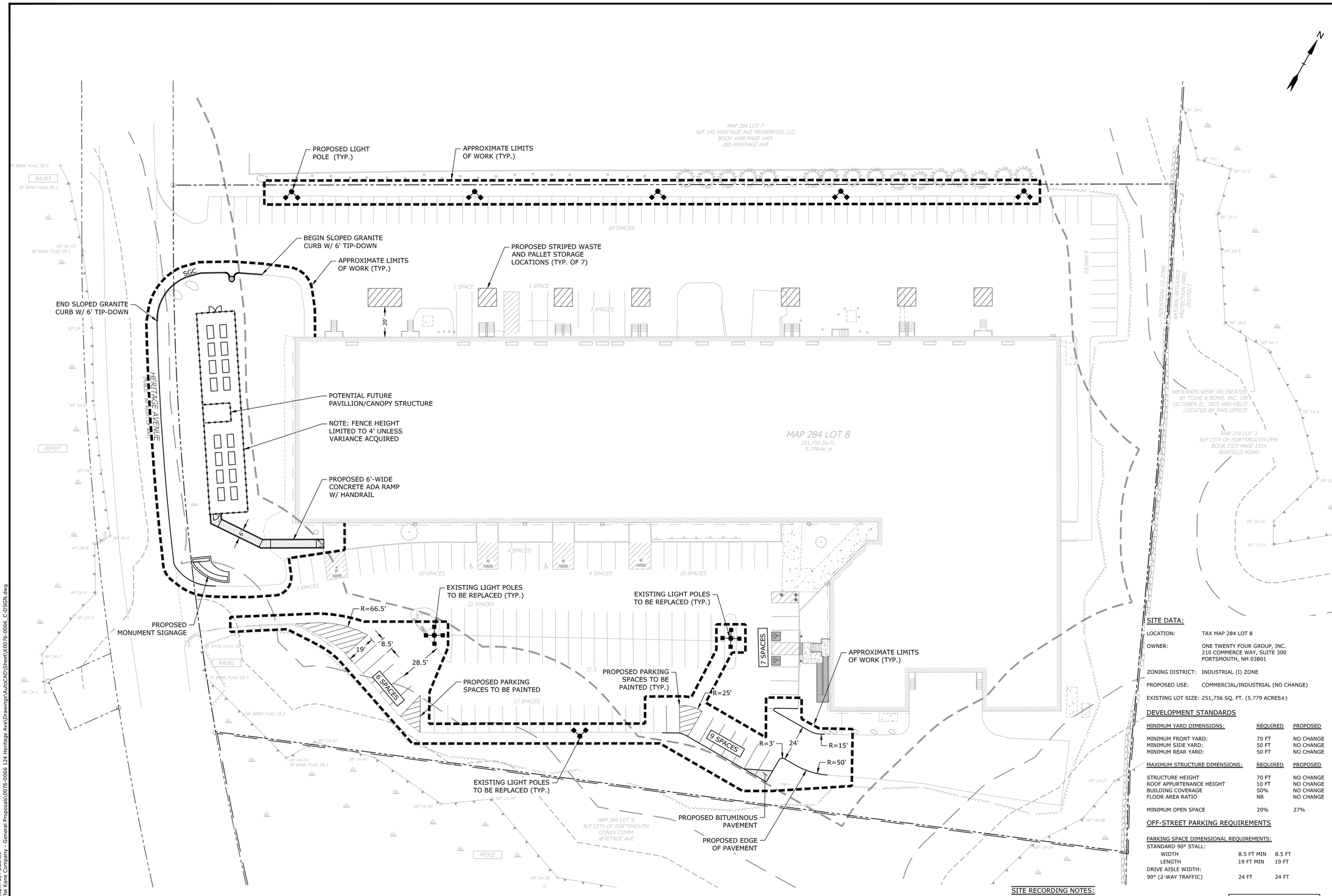
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DEMOLITION PLAN

SCALE:

C-101



SITE DATA:

LOCATION: TAX MAP 284 LOT 8

OWNER: ONE TWENTY FOUR GROUP, INC.
210 COMMERCE WAY, SUITE 300
PORTSMOUTH, NH 03801

ZONING DISTRICT: INDUSTRIAL (I) ZONE

PROPOSED USE: COMMERCIAL/INDUSTRIAL (NO CHANGE)

EXISTING LOT SIZE: 251,756 SQ. FT. (5.779 ACRES±)

DEVELOPMENT STANDARDS

MINIMUM YARD DIMENSIONS:	REQUIRED	PROPOSED
MINIMUM FRONT YARD:	70 FT	NO CHANGE
MINIMUM SIDE YARD:	50 FT	NO CHANGE
MINIMUM REAR YARD:	50 FT	NO CHANGE
MAXIMUM STRUCTURE DIMENSIONS:	**REQUIRED**	**PROPOSED**
STRUCTURE HEIGHT	70 FT	NO CHANGE
ROOF APPURTENANCE HEIGHT	10 FT	NO CHANGE
BUILDING COVERAGE	50%	NO CHANGE
FLOOR AREA RATIO	NR	NO CHANGE
MINIMUM OPEN SPACE	20%	27%

OFF-STREET PARKING REQUIREMENTS

PARKING SPACE DIMENSIONAL REQUIREMENTS:

STANDARD 90° STALL:		
WIDTH	8.5 FT MIN	8.5 FT
LENGTH	19 FT MIN	19 FT
DRIVE AISLE WIDTH:		
90° (2-WAY TRAFFIC)	24 FT	24 FT

SITE RECORDING NOTES:

1. THIS SITE PLAN SHALL BE RECORDED IN THE ROCKINGHAM COUNTY REGISTRY OF DEEDS.
2. ALL IMPROVEMENTS SHOWN ON THIS SITE PLAN SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE PLAN BY THE PROPERTY OWNER AND ALL FUTURE PROPERTY OWNERS. NO CHANGES SHALL BE MADE TO THIS SITE PLAN WITHOUT THE EXPRESS APPROVAL OF THE PORTSMOUTH PLANNING DIRECTOR.
3. ALL CONDITIONS ON THIS PLAN SHALL REMAIN IN EFFECT IN PERPETUITY PURSUANT TO THE REQUIREMENTS OF THE SITE PLAN REVIEW REGULATIONS.
4. THIS IS NOT A BOUNDARY SURVEY AND SHALL NOT BE USED AS SUCH.

SEE SHEET C-101 FOR PLAN NOTES & LEGEND

0 30' 60'

SCALE: 1" = 30'

Tighe&Bond
177 Corporate Drive
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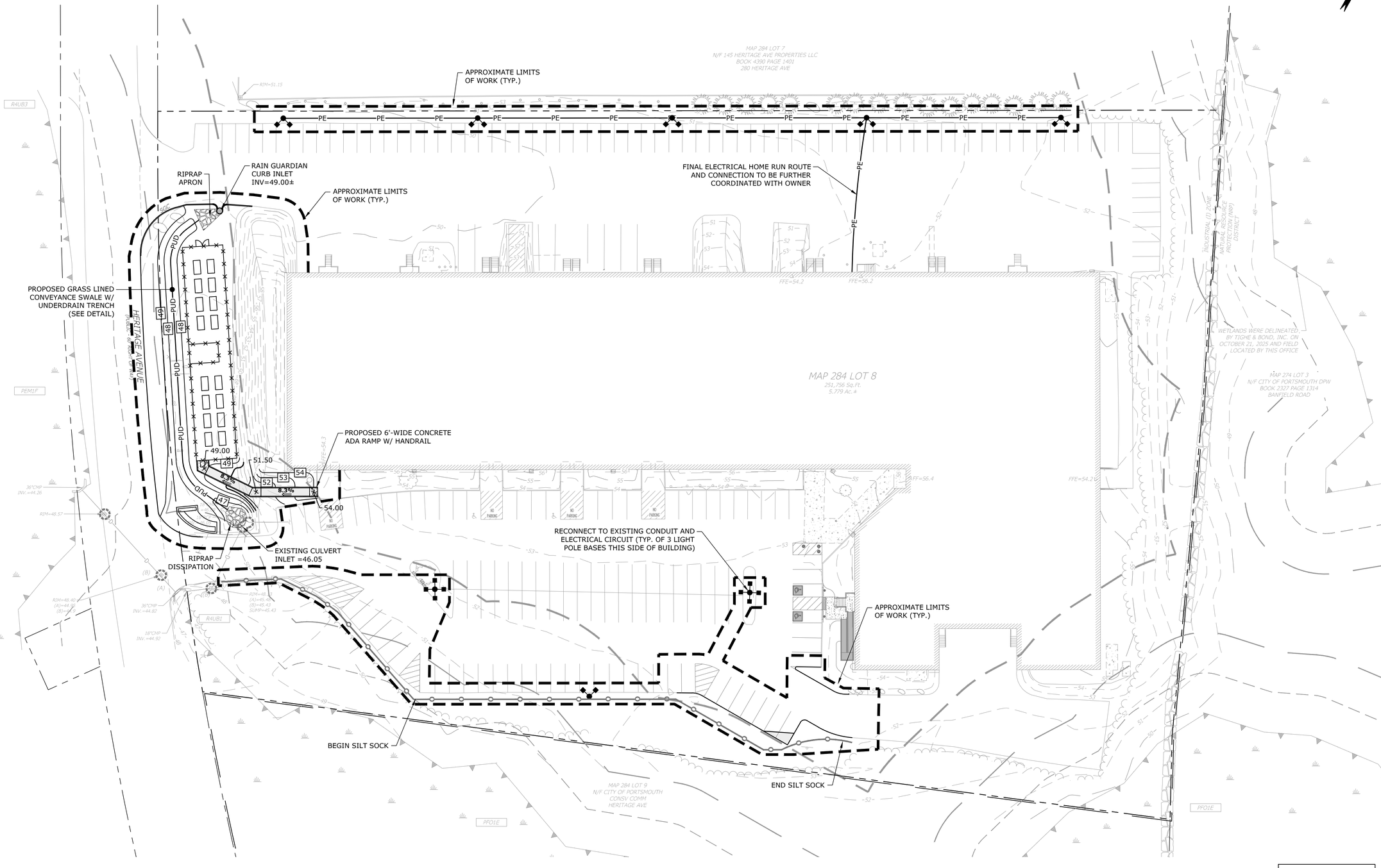
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SITE PLAN

SCALE:

C-201

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STATE OF NEW HAMPSHIRE – NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER – 6/22/26

STATE OF NEW HAMPSHIRE – PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER – 6/22/26

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

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GRADING, DRAINAGE, EROSION CONTROL, AND UTILITIES PLAN

SCALE:

C-301

GENERAL PROJECT INFORMATION

PROJECT OWNER:	ONE TWENTY FOUR GROUP, INC. 210 COMMERCE WAY, SUITE 300 PORTSMOUTH, NH 03801
PROJECT NAME:	PROPOSED PARKING LOT IMPROVEMENTS
PROJECT ADDRESS:	124 HERITAGE AVENUE PORTSMOUTH, NH 03801
PROJECT MAP / LOT:	MAP 284 / LOT 8
PROJECT LATITUDE:	43°-2'-6.21"N
PROJECT LONGITUDE:	70°-47'-46.66"W

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES STRIPING ADDITIONAL PARKING SPACES, A PROPOSED ADA RAMP AND STAIRS, AND A PROPOSED GARDEN AREA. THE PROJECT WILL ALSO CONSIST OF ASSOCIATED SITE IMPROVEMENTS SUCH AS STORMWATER MANAGEMENT, UTILITIES AND LIGHTING.

DISTURBED AREA

THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 0.25 ACRES.

SOIL CHARACTERISTICS

BASED ON THE NRCS WEB SOIL SURVEY FOR ROCKINGHAM COUNTY - NEW HAMPSHIRE, THE SOILS ON SITE CONSIST OF MAYBID SILT SOILS WHICH ARE POORLY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATING OF C/D, AND HOOSIC GRAVELLY FINE SANDY LOAM SOILS WHICH ARE SOMEWHAT EXCESSIVELY DRAINED SOILS WITH HYDROLOGIC SOIL GROUP RATING OF A.

NAME OF RECEIVING WATERS

THE STORMWATER RUNOFF FROM THE SITE WILL BE DISCHARGED VIA OVERLAND FLOW TO AN UNNAMED WETLAND.

CONSTRUCTION SEQUENCE PLAN OF MAJOR ACTIVITIES:

1. CONSTRUCT TEMPORARY AND PERMANENT PERIMETER EROSION CONTROLS, SEDIMENT CONTROLS AND DETENTION MEASURES, PRIOR TO ANY EARTH MOVING OPERATIONS THAT MAY AFFECT STORMWATER RUNOFF SUCH AS:
   - DISPOSAL OF SEDIMENT SPOIL, STUMPS, DEMOLITION DEBRIS, AND OTHER SOLID WASTE
   - CONTROL OF DUST
   - CONSTRUCTION OF DRIVES, PARKING AREAS, AND OTHER IMPERVIOUS SURFACES
   - INSTALLATION OF UTILITIES AND BUILDINGS & BLEACHERS CONSTRUCTION
   - CONSTRUCTION DURING LATE WINTER AND EARLY SPRING
1. DEMOLISH ALL SITE FEATURES AS DIRECTED ON THE DRAWINGS. CLEAR AND DISPOSE OF DEBRIS IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS.
2. CUT AND CLEAR TREES ACROSS SITE. (GRUBBING SHALL NOT OCCUR UNTIL AFTER THE INSTALLATION OF PERIMETER CONTROLS.)
3. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE ENTIRETY OF CONSTRUCTION. REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS NEEDED IN ACCORDANCE WITH THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND DIRECTION OF THE ENVIRONMENTAL MONITOR.
4. NOTE THAT ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS SHALL BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.
5. CONSTRUCT TEMPORARY CULVERTS, DIVERSION CHANNELS, AND/OR BASINS AS REQUIRED. SEDIMENT TRAPS AND/OR BASINS SHALL BE USED AS NECESSARY TO CONTAIN RUNOFF UNTIL SOILS ARE STABILIZED.
6. COMPLETE MASS GRADING AND EARTHWORK IN ORDER TO ESTABLISH SITE SUBGRADE ELEVATIONS, AS WELL AS EXCAVATION NECESSARY TO CONSTRUCT FOUNDATIONS FOR PROPOSED STRUCTURES.
7. CONSTRUCT UNDERGROUND DRAINAGE, UTILITY AND LIGHTING INFRASTRUCTURE NECESSARY TO SUPPORT TEMPORARY AND PERMANENT CONDITIONS. ALL TRENCHES TO BE BACKFILLED IN ACCORDANCE WITH PROJECT DRAWINGS AND SPECIFICATIONS.
8. ALL AREAS OF UNSTABILIZED SOIL SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE, BUT IN ALL CASES WITHIN 45 DAYS OF INITIAL DISTURBANCE, UNLESS A SHORTER TIME IS SPECIFIED BY LOCAL AUTHORITIES, THE CONSTRUCTION SEQUENCE APPROVED AS PART OF THE ISSUED PERMIT, OR AN INDEPENDENT MONITOR. ALL AREAS OF TEMPORARILY STABILIZED SOIL SHALL PERMANENTLY STABILIZED AS SOON AS PRACTICABLE BUT IN ALL CASES WITHIN 3 DAYS OF FINAL GRADING.
9. CONSTRUCT BASE COURSE GRAVELS FOR ALL DRIVES AND PARKING AREAS. ALL DRIVES AND PARKING AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
10. BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES THAT HAVE NOT BEEN OTHERWISE STABILIZED BY GRAVELS SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
11. DAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.
12. FINISH PAVING ALL DRIVES, AND PARKING AREAS. CONSTRUCT ALL HARDSCAPE, FIELD SURFACES AND SITE AMENITIES/FEATURES.
13. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
14. REMOVE TRAPPED SEDIMENTS FROM ALL EROSION CONTROL MEASURES AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.

SPECIAL CONSTRUCTION NOTES:

1. THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE. THE AREA OF DISTURBANCE SHALL ONLY EXCEED FIVE (5) ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED IF AN ENVIRONMENTAL MONITOR IS EMPLOYED DURING CONSTRUCTION IN ACCORDANCE WITH Env-Wq 1505.03.
2. THE PROJECT IS TO BE MANAGED IN A MANNER THAT MEETS THE REQUIREMENTS AND INTENT OF RSA 430:51-57 AND CHAPTER AGR 3800 RELATIVE TO INVASIVE SPECIES. ANY INVASIVE OR NOXIOUS PLANT SPECIES ENCOUNTERED DURING CONSTRUCTION SHALL BE CONTROLLED IN ACCORDANCE WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "ENV 1, MANUAL 1 – BEST MANAGEMENT PRACTICES FOR CONTROL OF INVASIVE AND NOXIOUS PLANT SPECIES", CURRENT EDITION.

EROSION CONTROL NOTES:

1. ALL EROSION CONTROL MEASURES AND PRACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL, LATEST EDITION.
2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL EROSION AND SEDIMENT CONTROL MEASURES FOR APPROVAL.
3. AS THE FIRST ORDER OF WORK, PRIOR TO ANY EARTH DISTURBANCE, THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO; INLET PROTECTION BARRIERS, SILT SOCKS, SILT FENCES, MULCH BERMS, AND STABILIZED CONSTRUCTION EXITS AS SHOWN ON THE DRAWINGS, AND AS REQUIRED BY ALL STATE AND LOCAL PERMITS AND APPROVALS.
4. INLET PROTECTION BARRIERS SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED CATCH BASINS/CURB INLETS AND YARD DRAINS WITHIN THE LIMITS OF WORK AS WELL AS ANY CATCH BASINS/CURB INLETS AND YARD DRAINS THAT RECEIVE RUNOFF FROM ANY CONSTRUCTION ACTIVITIES. THESE MEASURES SHALL BE FULLY MAINTAINED FOR THE DURATION OF THE PROJECT.
5. PERIMETER CONTROLS INCLUDING SILT FENCES, MULCH BERM, SILT SOCK, AND/OR HAY BALE BARRIERS SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT UNTIL ALL NON-PAVED AREAS HAVE BEEN STABILIZED.
6. CONTRACTOR SHALL INSTALL EROSION CONTROL BLANKETS ON ALL STEEP SLOPE AREA (3:1 OR GREATER).
7. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AND WIND EROSION THROUGHOUT THE CONSTRUCTION PERIOD. DUST CONTROL MEASURES INCLUDE, BUT NOT LIMITED TO; MOISTEN EXPOSED SOIL SURFACES PERIODICALLY WITH ADEQUATE WATER TO CONTROL DUST, MECHANICAL SWEEPERS ON PAVED SURFACES, AND COVERING SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.
8. THE CONTRACTOR SHALL HAVE ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, INLET PROTECTION BARRIERS, PERIMETER SEDIMENT CONTROLS, AND STEEP SLOPE EROSION CONTROL BLANKETS INSPECTED BY A QUALIFIED PERSON AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER A RAIN EVENT OF 0.25 INCHES OR GREATER. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED, REPAIRED, MODIFIED, OR ADDITIONAL MEASURES INSTALLED AS NECESSARY TO ADDRESS EVOLVING CONDITIONS DURING CONSTRUCTION.
9. SEDIMENT CONTROL FILTER MEASURES SHALL BE REPLACED WHEN SEDIMENT REACHES 1/3 THE HEIGHT OF THE FILTER.
10. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.
11. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.

STABILIZATION:

1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED:
   - A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;
     - a. IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, ITEM 304.2 HAVE BEEN INSTALLED.
   - B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;
   - C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;
   - D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
2. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND LOAMED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
3. ALL ROADS, DRIVES AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
4. WINTER STABILIZATION PRACTICES:
   - A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS;
   - B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;
   - C. AFTER OCTOBER 15, INCOMPLETE ROAD, DRIVES, OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER NHDOT ITEM 304.3, OR IF CONSTRUCTION IS TO CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;
   - D. FOR OVER-WINTER PROTECTION, A DOUBLE ROW OF SEDIMENT BARRIERS (SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX, ETC.) SHALL BE PLACED WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE AREA.
3. STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:
   - A. TEMPORARY SEEDING;
   - B. MULCHING.
4. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.
5. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND ANY EARTH/DIKES SHALL BE REMOVED ONCE PERMANENT MEASURES ARE ESTABLISHED.
6. DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY OCTOBER 15.

DUST CONTROL:

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.
2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.
3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS.

STOCKPILES:

1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.
2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.
3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.
4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.

OFF SITE VEHICLE TRACKING:

1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION EXIT(S) PRIOR TO ANY EXCAVATION ACTIVITIES.

VEGETATION:

1. TEMPORARY GRASS COVER:
   - A. SEEDBED PREPARATION:
     - a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;
   - B. SEEDING:
     - a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;
     - b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCHES BEFORE APPLYING FERTILIZER, LIME AND SEED;
     - c. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 10% WHEN HYDROSEEDING;
   - C. MAINTENANCE:
     - a. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADE AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.).
2. PERMANENT MEASURES AND PLANTINGS:
   - A. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE IN ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
   - B. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATION RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;
   - C. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLERS WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;
   - D. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. 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;
   - E. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;
   - F. 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 WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;
   - G. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;
   - H. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED RATE:

SEED MIX	APPLICATION RATE
CREEPING RED FESCUE	20 LBS/ACRE
TALL FESCUE	20 LBS/ACRE
REDTOP	2 LBS/ACRE

   IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE OVER SNOW.
3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):
   - A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWICE THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.

CONCRETE WASHOUT AREA:

1. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR DISPATCH FACILITY;
2. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANDLE ANTICIPATED WASHOUT WATER;
3. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;
4. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.

ALLOWABLE NON-STORMWATER DISCHARGES:

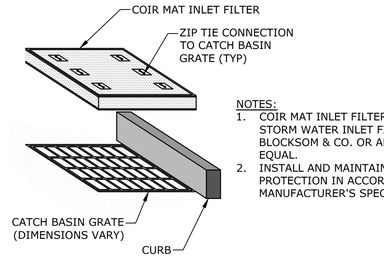
1. THE FOLLOWING ARE THE ONLY STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES ARE PROHIBITED ON SITE:
   - A. FIRE-FIGHTING ACTIVITIES;
   - B. FIRE HYDRANT FLUSHING;
   - C. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
   - D. WATER USED TO CONTROL DUST;
   - E. POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;
   - F. ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;
   - G. PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;
   - H. UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;
   - I. UNCONTAMINATED GROUND WATER OR SPRING WATER;
   - J. FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;
   - K. UNCONTAMINATED EXCAVATION DEWATERING;
   - L. LANDSCAPE IRRIGATION.

WASTE DISPOSAL:

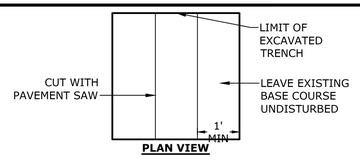
1. WASTE MATERIAL:
   - A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;
   - B. NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;
   - C. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE SUPERINTENDENT.
2. HAZARDOUS WASTE:
   - A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER;
   - B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.
3. SANITARY WASTE:
   - A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.

SPILL PREVENTION:

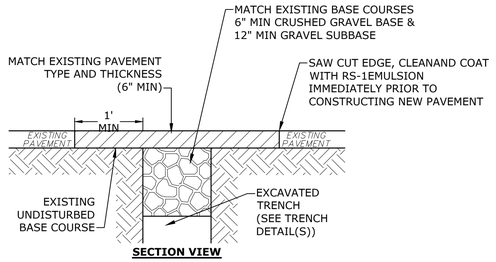
1. CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY ALL LOCAL, STATE AND FEDERAL REGULATIONS. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.
2. THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:
   - A. GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:
     - a. ONLY SUFFICIENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE;
     - b. ALL REGULATED MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE, ON AN IMPERVIOUS SURFACE;
     - c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;
     - d. THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;
     - e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER;
     - f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
     - g. THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
   - B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:
     - a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;
     - b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;
     - c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.
3. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE:
   - a. PETROLEUM PRODUCTS:
     - ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE LEAKAGE;
     - PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
     - SECURE FUEL STORAGE AREAS AGAINST UNAUTHORIZED ENTRY;
     - INSPECT FUEL STORAGE AREAS WEEKLY;
     - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS;
     - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS;
     - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
     - THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
       (1) EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED;
       (2) PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS;
       (3) HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS;
       (4) USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES;
       (5) PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
     - FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION EQUIPMENT SHALL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT, OR ITS SUCCESSOR DOCUMENT. https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/dwgb-22-6.pdf
   - b. FERTILIZERS:
     - FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS;
     - ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;
     - STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
     - PAINTS:
     - ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;
     - EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;
     - EXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.
4. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
   - a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;
   - b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;
   - c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
   - d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;
   - e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;
   - f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.
5. VEHICLE FUELING AND MAINTENANCE PRACTICE:
   - a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITE FACILITY;
   - b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY;
   - c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED;
   - d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
   - e. CONTRACTOR SHALL REGULARLY INSPECT VEHICLES FOR LEAKS AND DAMAGE;
   - f. CONTRACTOR SHALL USE DRIP PANS, DRIP CLOTHS, OR ABSORBENT PADS WHEN REPLACING SPENT FLUID.



NOTES:
1. COIR MAT INLET FILTER SHALL BE STORM WATER INLET FILTER BY BL



PLAN VIEW

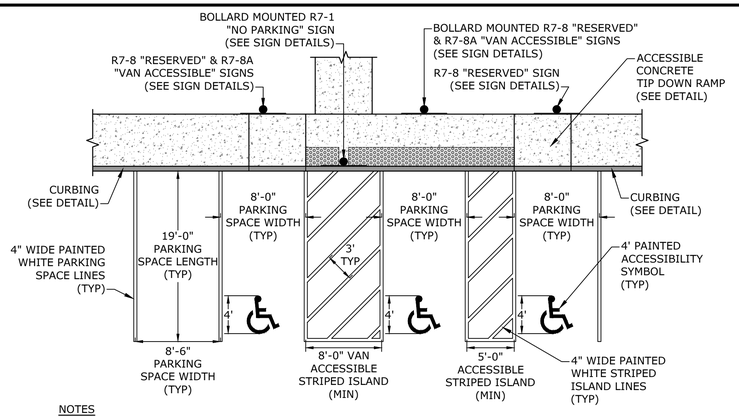


SECTION VIEW

NOTES
1. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL FOR ALL TRENCHING AND PATCHING WITHIN CITY RIGHT OF WAY WITH CITY OF PORTSMOUTH DPW PRIOR TO COMMENCING WORK.

ROADWAY TRENCH PATCH

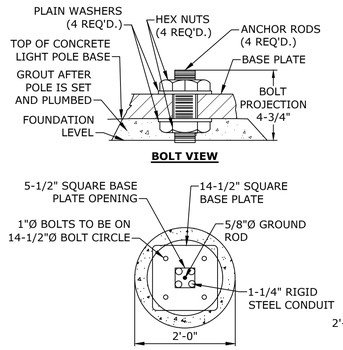
NO SCALE



NOTES
1. ALL PAINT SHALL BE FAST DRYING TRAFFIC PAINT, MEETING THE REQUIREMENTS OF AASHTO M248-TYPE F. PAINT SHALL BE APPLIED PER MANUFACTURER RECOMMENDATIONS.
2. SYMBOLS & PARKING STALLS SHALL BE INSTALLED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, AND ALL STATE AND LOCAL REQUIREMENTS.
3. FINISH PAVEMENT GRADES AT ALL HANDICAP ACCESSIBLE STALLS AND PAINTED ACCESS AISLES SHALL NOT EXCEED 2% IN ANY DIRECTION.

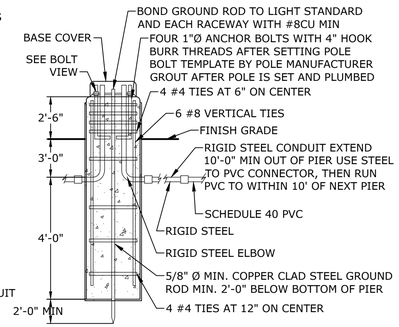
TYPICAL PARKING SPACE STRIPING AND ACCESSIBLE ACCESS LAYOUT

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BOLT VIEW

PLAN VIEW

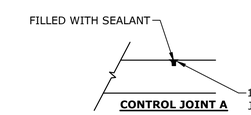


SECTION VIEW

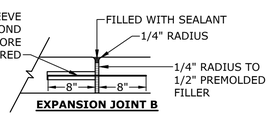
NOTES
1. PAINT BASE SAFETY YELLOW (UNLESS PROTECTED BY CURBED ISLAND).
2. CONCRETE TO BE CLASS A, 4,000 PSI, AIR ENTRAINED STEEL TO BE 60 KSI
3. REFER TO ELECTRICAL PLANS FOR WIRING DETAILS.
4. LIGHT POLE BASE DETAIL FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL, TO INCLUDE PERFORMANCE SPECIFICATIONS, CALCULATIONS AND NH LICENSED STRUCTURAL ENGINEER'S STAMP FOR LIGHT POLE FOUNDATION.
5. BASE PLATE DETAILS SHOWN AS REFERENCE ONLY. COORDINATE FINAL BASE PLATE DETAIL AND ANCHORING REQUIREMENTS WITH INDIVIDUAL LIGHT POLE BASE AND MANUFACTURER REQUIREMENTS.

TYPICAL LIGHT POLE BASE

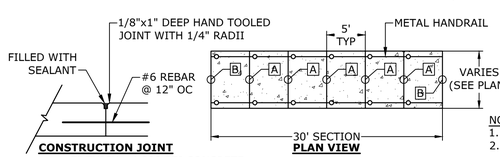
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CONTROL JOINT A

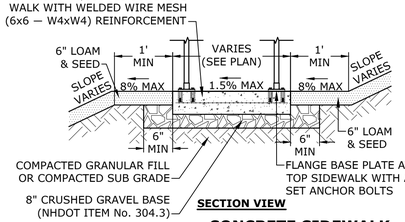


EXPANSION JOINT B



CONSTRUCTION JOINT **PLAN VIEW**

5" THICK - 4,000 PSI CONCRETE WALK WITH WELDED WIRE MESH (6x6 — W4xW4) REINFORCEMENT

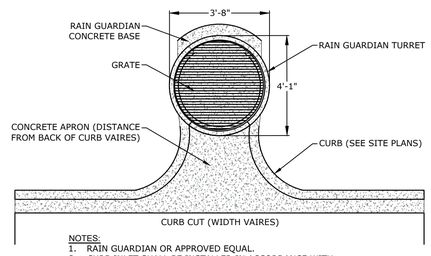


SECTION VIEW

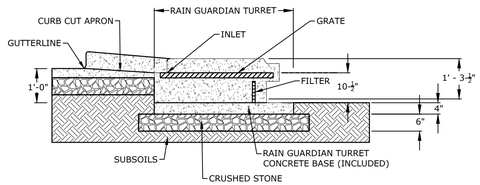
NOTES:
1. SEE SITE PLAN FOR SIDEWALK WIDTH AND LOCATIONS.
2. SEE GRADING, DRAINAGE & EROSION CONTROL PLAN FOR WALK AND SIDE SLOPE GRADES.
3. SIDEWALK SURFACE SHALL GIVEN A BROOM FINISH.
4. ISOLATION JOINTS ADJACENT TO BUILDING SHALL BE COORDINATED WITH BUILDING DRAWINGS.
5. CONTRACTOR SHALL SUBMIT THE PROPOSED CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO CONSTRUCTION.
6. ALL WORK SHALL CONFORM TO THE CITY OF PORTSMOUTH DEPARTMENT OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND WITH THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION, "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION.

CONCRETE SIDEWALK

NO SCALE

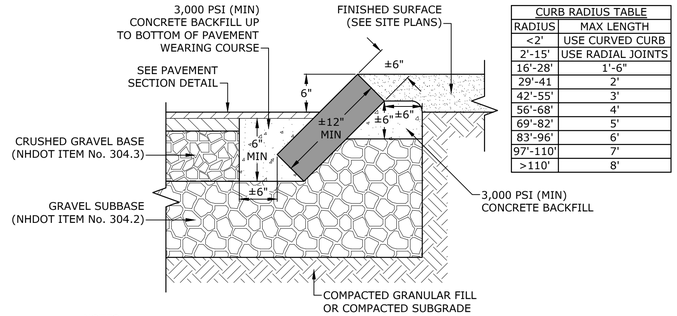


NOTES:
1. RAIN GUARDIAN OR APPROVED EQUAL.
2. CURB INLET SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE RECOMMENDATION.



RAIN GUARDIAN TURRET

NO SCALE

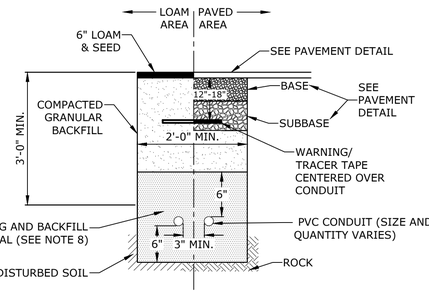


CURB RADIUS TABLE	
RADIUS	MAX LENGTH
<2'	USE CURVED CURB
2'-15'	USE RADIAL JOINTS
16'-28'	1'-6"
29'-41	2'
42'-55'	3'
56'-68'	4'
69'-82'	5'
83'-96'	6'
97'-110'	7'
>110'	8'

NOTES
1. SEE SITE PLANS FOR LIMITS OF SLOPED GRANITE CURB (SGC).
2. ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATELY THE SAME LENGTH.
3. MINIMUM LENGTH OF STRAIGHT CURB STONES = 3'
4. MAXIMUM LENGTH OF STRAIGHT CURB STONES = 10'
5. MAXIMUM LENGTH OF STRAIGHT CURB STONES LAID ON CURVES (SEE TABLE).
6. JOINTS BETWEEN STONES SHALL HAVE A MAXIMUM SPACING OF 1/2" AND SHALL BE MORTARED.
8. SLOPED GRANITE CURB WITHIN THE CITY ROW SHALL BE NHDOT SPEC 609.21.

SLOPED GRANITE CURB (SGC)

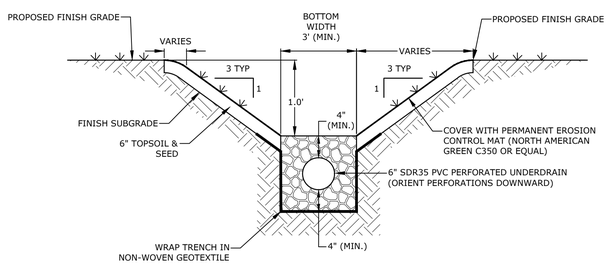
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NOTES:
1. NUMBER, MATERIAL, AND SIZE OF UTILITY CONDUITS TO BE DETERMINED AS SHOWN ON ELECTRICAL DRAWINGS. CONTRACTOR TO PROVIDE ONE SPARE CONDUIT FOR EACH UTILITY TO BUILDING.
2. DIMENSIONS SHOWN REPRESENT MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY BE GREATER BASED ON UTILITY COMPANY STANDARDS, BUT SHALL NOT BE LESS THAN THOSE SHOWN.
3. NO CONDUIT RUN SHALL EXCEED 360 DEGREES IN TOTAL BENDS.
4. A SUITABLE PULLING STRING, CAPABLE OF 200 POUNDS OF PULL, MUST BE INSTALLED IN THE CONDUIT BEFORE UTILITY COMPANY IS NOTIFIED TO INSTALL CABLE. THE STRING SHOULD BE BLOWN INTO THE CONDUIT AFTER THE RUN IS ASSEMBLED TO AVOID BONDING THE STRING TO THE CONDUIT.
5. UTILITY COMPANY MUST BE GIVEN THE OPPORTUNITY TO INSPECT THE CONDUIT PRIOR TO BACKFILL. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS SHOULD THE UTILITY COMPANY BE UNABLE TO INSTALL ITS CABLE IN A SUITABLE MANNER.
6. ALL CONDUIT INSTALLATIONS MUST CONFORM TO THE CURRENT EDITION OF THE NATIONAL ELECTRIC SAFETY CODE, STATE AND LOCAL CODES AND ORDINANCES, AND, WHERE APPLICABLE, THE NATIONAL ELECTRIC CODE.
7. ALL 90° SWEEPS WILL BE MADE USING RIGID GALVANIZED STEEL. SWEEPS WITH A 36 TO 48 INCH RADIUS.
8. SAND BEDDING TO BE REPLACED WITH CONCRETE ENCASEMENT WHERE COVER IS LESS THAN 3 FEET, OR WHERE SHOWN ON THE UTILITIES PLAN.
9. SAND BEDDING AND BACKFILL FOR FULL WIDTH OF THE TRENCH FROM 6" BELOW CONDUIT UP TO 6" ABOVE TOP OF CONDUIT.

LIGHTING CONDUIT TRENCH

NO SCALE



CONVEYANCE SWALE & UNDERDRAIN DETAIL

NO SCALE

Tighe & Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE · NEIL A. HANSEN No. 15227 · LICENSED PROFESSIONAL ENGINEER
6/22/26

STATE OF NEW HAMPSHIRE · PATRICK CRIMMINS No. 12378 · LICENSED PROFESSIONAL ENGINEER
6/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

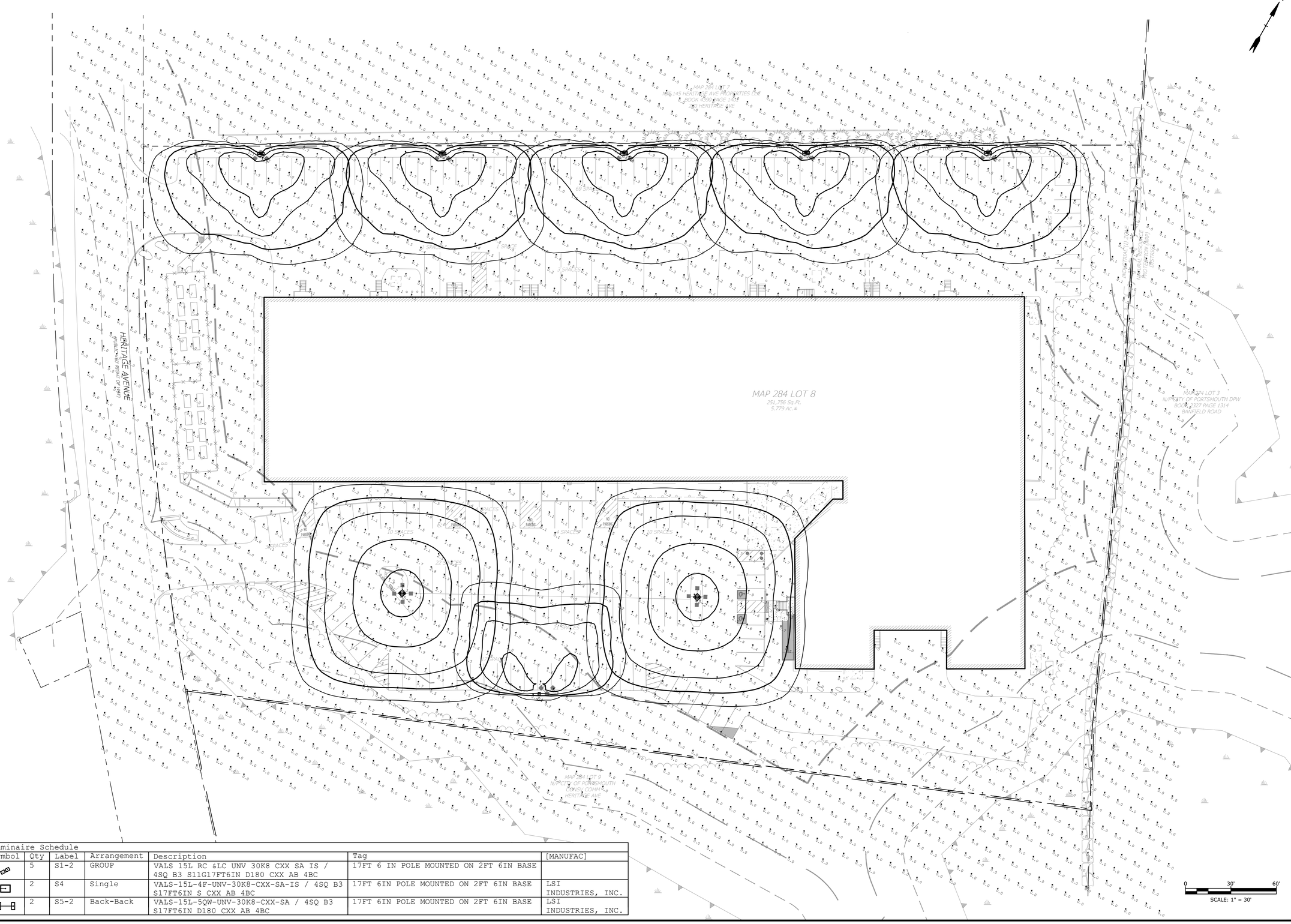
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DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

DETAILS SHEET

SCALE:

C-502

Last Saved: 6/19/2026
Plotted: Jun 22, 2026-3:38pm By: MCurley
Tighe & Bond:J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DTLS.dwg



Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Description	Tag	[MANUFAC]
	5	S1-2	GROUP	VALS 15L RC &LC UNV 30K8 CXX SA IS / 4SQ B3 S11G17FT6IN D180 CXX AB 4BC	17FT 6 IN POLE MOUNTED ON 2FT 6IN BASE	
	2	S4	Single	VALS-15L-4F-UNV-30K8-CXX-SA-IS / 4SQ B3 S17FT6IN_S CXX AB 4BC	17FT 6IN POLE MOUNTED ON 2FT 6IN BASE	LSI INDUSTRIES, INC.
	2	S5-2	Back-Back	VALS-15L-5QW-UNV-30K8-CXX-SA / 4SQ B3 S17FT6IN D180 CXX AB 4BC	17FT 6IN POLE MOUNTED ON 2FT 6IN BASE	LSI INDUSTRIES, INC.

Last Saved: 6/19/2026
Printed: 6/19/2026 11:30am By: MCurley
Tighe & Bond:J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
NEIL A. HANSEN
No. 15227
LICENSED
6/22/26

STATE OF NEW HAMPSHIRE – PROFESSIONAL ENGINEER
PATRICK CRIMMINS
No. 12378
LICENSED
6/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DSGN.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

PHOTOMETRIC PLAN

SCALE:

LT-101

GENERAL NOTES:

1. INSTALL SIGNAGE IDENTIFYING NATIVE EDIBLE PLANT SPECIES.
2. BLACKBERRY AND RASPBERRY CAN PROVIDE A PRODUCTIVE EDIBLE COMPONENT TO THE PLANTING AREA. HOWEVER, BOTH SPECIES TEND TO SPREAD VIGOROUSLY THROUGH CANES AND ROOT SUCKERS AND MAY REQUIRE PERIODIC PRUNING AND CONTAINMENT TO MAINTAIN THE INTENDED LAYOUT. IF LONG-TERM MAINTENANCE IS EXPECTED TO BE LIMITED, CONSIDER SUBSTITUTING WITH LOWER-MAINTENANCE EDIBLE NATIVE SHRUBS SUCH AS BLUEBERRY.

MAINTAIN WALKWAY / GATE CLEARANCE

RASPBERRY AND/OR BLACKBERRY PATCH
INSTALL SUPPORT FENCING/TRELLIS TO MAINTAIN UPRIGHT GROWTH AND LIMIT SPREAD BEYOND PLANTING AREA.

VEGETATION ON SLOPE
MOUNTAIN MINT (PYCNANTHEMUM MUTICUM)
NEWP CONSERVATION SEED MIX
https://newp.com/product/new-england-conservation-wildlife-mix/

APPROXIMATE LIMITS OF WORK (TYP.)

PROPOSED GRASS LINED CONVEYANCE SWALE W/ UNDERDRAIN TRENCH (SEE DETAIL)

GROUND COVER IN SHRUB ROW
WILD GERANIUM (GERANIUM MACULATUM)
PENNSYLVANIA SEDGE (CAREX PENSYLVANICA)
TUFTED HAIR GRASS (DESCHAMPSIA CAESPITOSA)

SHRUB ROW
SERVICEBERRY (AMELANCHIER CANADENSIS)
HIGHBUSH BLUEBERRY (VACCINIUM CORYMBOSUM)
*TWO VARIETIES FOR CROSS-POLLINATION
AMERICAN ELDERBERRY (SAMBUCUS CANADENSIS)

POLLINATOR GARDENS
NEW ENGLAND SHOWY WILDFLOWER SEED MIX
*AUGMENT WITH BEE BALM SPECIES MONARDA FISTULOSA, MONARDA PUNCTATA
https://newp.com/product/new-england-showy-wildflower-mix/
NH COOPERATIVE EXTENSION CUSTOM WILDFLOWER MIX (ALTERNATIVE)
https://extension.unh.edu/sites/default/files/migrated_unmanaged_files/Resource006628_Rep9500.pdf

MAP 284 LOT 7
N/F 145 HERITAGE AVE PROPERTIES LLC
BOOK 4390 PAGE 1401
280 HERITAGE AVE

MAP 284 LOT 8
251,756 Sq.Ft.±
5.779 Ac.±

MAP 274 LOT 3
N/F CITY OF PORTSMOUTH DPW
BOOK 2327 PAGE 1314
BANFIELD ROAD

MAP 284 LOT 9
N/F CITY OF PORTSMOUTH
CONSV COMM
HERITAGE AVE

HERITAGE AVENUE
(PUBLIC - 60' WIDTH)

INDUSTRIAL (I) ZONE
NATURAL RESOURCE PROTECTION (NRP) DISTRICT

WETLANDS WERE DELINEATED BY TIGHE & BOND, INC. ON OCTOBER 21, 2025 AND FIELD LOCATED BY THIS OFFICE

LEGEND
- SERVICEBERRY
- BLUEBERRY
- ELDERBERRY
- RASPBERRY
- BLACKBERRY
- GRASS LINED SWALE
- SHRUB ROW
- RASPBERRY/BLACKBERRY PATCH
- VEGETATION ON SLOPE
- POLLINATOR GARDENS

0 30' 60'
SCALE: 1" = 30'

Tighe&Bond
177 Corporate Drive
Portsmouth, NH 03801
T 603.433.8818

STATE OF NEW HAMPSHIRE – NEIL A. HANSEN No. 15227 LICENSED PROFESSIONAL ENGINEER
6/22/26

STATE OF NEW HAMPSHIRE – PATRICK CRIMMINS No. 12378 LICENSED PROFESSIONAL ENGINEER
6/22/26

TAC SUBMISSION

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124 Heritage Ave.

One Twenty Four Group, Inc.

Portsmouth, New Hampshire

MARK	DATE	DESCRIPTION
B	6/22/2026	TAC SUBMISSION
A	4/29/2026	CC WORK SESSION

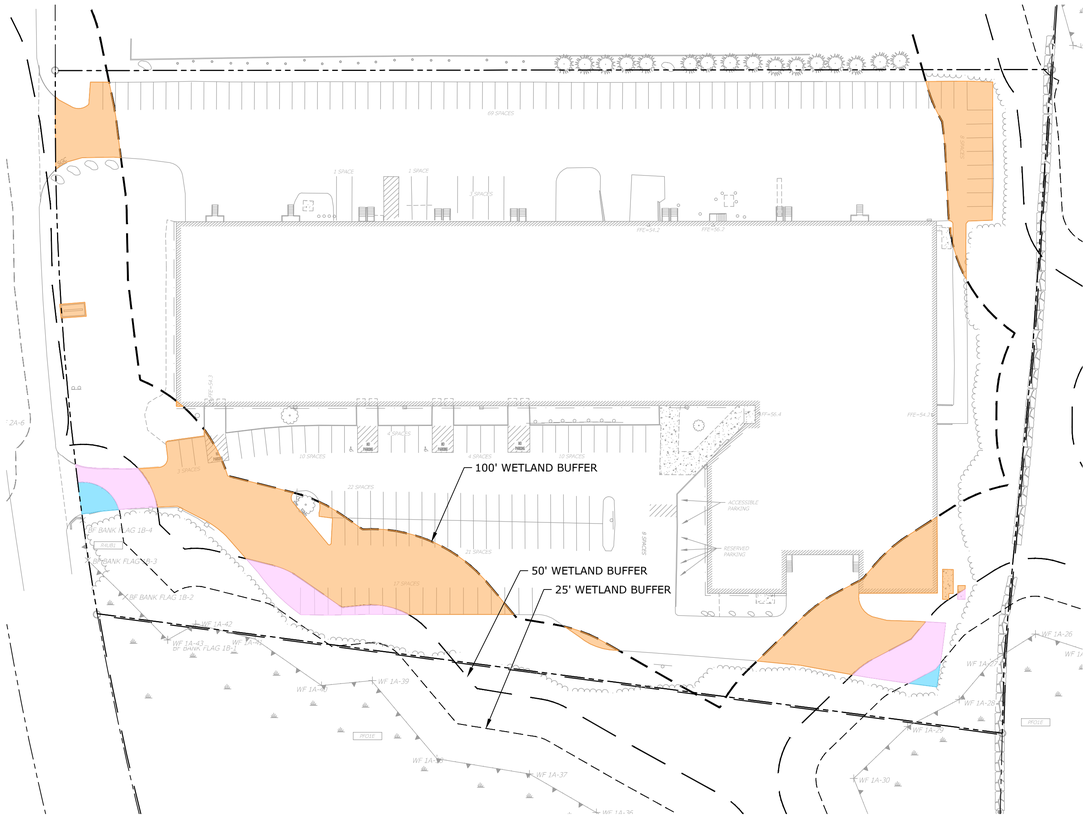
PROJECT NO:	K0076-0066
DATE:	4/29/2026
FILE:	K0076-0066_C-DSGN.dwg
DRAWN BY:	M.CURLEY
DESIGNED BY:	B.CURCIO
CHECKED BY:	N.HANSEN
APPROVED BY:	P.CRIMMINS

PLANTING PLAN

SCALE:

L-101

Last Saved: 6/19/2026
Plotted: Jun 19, 2026 - 4:48pm By: MCurley
Tighe & Bond: J:\K\K0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg



EXISTING IMPERVIOUS SURFACES
SCALE 1" = 50'



PROPOSED IMPERVIOUS SURFACES
SCALE 1" = 50'

IMPERVIOUS SURFACES WITHIN WETLAND BUFFERS		
LOCAL WETLAND BUFFER SETBACK	WITHIN DEVELOPMENT PARCEL	
	EXISTING (SF)	PROPOSED (SF)
0 - 25 FT	521	521
25 - 50 FT	3,356	3,553
50 - 100 FT	20,747	21,048
TOTAL IMPERVIOUS SURFACE	24,624	25,121
NET IMPERVIOUS SURFACE	498	

0 50' 100'

SCALE: 1" = 50'

124 HERITAGE AVENUE
PORTSMOUTH, NH

WETLAND BUFFER
IMPERVIOUS SURFACE EXHIBIT

DATE: 7/29/2026
SCALE: AS SHOWN
FIGURE: 1 OF 1

Tighe & Bond

Plotted On:Jul 29, 2026-1:37pm By: BCurcio
Tighe & Bond:J:\K\0076 The Kane Company - General Proposals\0076-0066 124 Heritage Ave\Drawings\AutoCAD\Sheet\K0076-0066_C-DSGN.dwg



TIGHEBOND.COM

OFFICE LOCATIONS THROUGHOUT THE NORTHEAST | 100% EMPLOYEE OWNED COMPANY

Docusign Envelope ID: 727D001E-4777-8CBA-8242-3161BB422D6A

Owner Letter of Authorization

This letter is to authorize Tighe & Bond, Inc. (Civil Engineer), to represent and submit on behalf of 124 Group LLC (Owner), applications and materials in all site design and permitting matters for the proposed Gather garden and parking improvements project at 124 Heritage Avenue in Portsmouth, New Hampshire. This authorization shall relate to those activities that are required for local, state and federal permitting for the above project and include any required signatures for those applications.

Signature	Print Name	Date
Signed by: 392AA5B729C34AD...	Kelsey Kraus	4/29/2026

177 Corporate Drive
Portsmouth, NH 03801

T 603.433.8818

TIGHEBOND.COM

SOCIETY FOR THE PROTECTION OF NEW HAMPSHIRE FORESTS
SINCE 1901

54 Portsmouth Street
Concord, NH 03301
Tel. 603.224.9945
Fax 603.228.0423
info@forestsociety.org
www.forestsociety.org

7/30/2026

NHDES Expedited Minimum Impact Wetland Permit Application

Society for the Protection of New Hampshire Forests
400 Little Harbor Rd, Portsmouth, NH
Tax Map 203, Lot 8

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EXPEDITED MINIMUM IMPACT (EXP) WETLANDS PERMIT APPLICATION

Water Division / Land Resources Management Program / Wetland Bureau

Check the status of your application

RSA/Rule: RSA 482-A/Env-Wt 100-900 (Env-Wt 310.01)

APPLICANT NAME: Dylan Summers
TOWN NAME: Portsmouth

Administrative Use Only	File number:	Initials:
	Check number:	Amount:

SECTION 1 - REQUIRED PLANNING FOR ALL PROJECTS (Env-Wt 306.05; Env-Wt 603.03; Env-Wt 603.05)

Please use the Land Resources Management Permit Planning Tool (LRMPPT), the DataCheck Tool, the New Hampshire Stream Crossing Initiative Data Viewer 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.

Does the property contain a PRA? If yes, provide the following information:		■ Yes ☐ No
• Does the project qualify for an Impact Classification Adjustment (such as and NHDES Ecological Review Section agreement for a classification downgrade) or a Project-Type Exception (such as a Maintenance or Statutory Permit-by-Notification (SPN) project)? See Env-Wt 407.02 and Env-Wt 407.04).		■ Yes ☐ No
• Protected species or habitat?		■ Yes ☐ No
• If yes, species or habitat name(s):	DataCheck ID #: DCT26-0644	
• Bog?		☐ Yes ☐ No
• Floodplain wetland contiguous to a tier 3 or higher watercourse?		☐ Yes ■ No
• Designated prime wetland or duly-established 100-foot buffer?		☐ Yes ■ No
• Sand dune, tidal wetland, tidal water, or undeveloped tidal buffer zone?		■ Yes ☐ No
Is the property within a designated river corridor? If yes, provide the following information:		☐ Yes ■ No
Name of Local River Management Advisory Committee (LAC):		
A copy of the application was sent to the LAC on (mm-dd-yyyy):		
For dredging projects, is the subject property contaminated?		☐ Yes ■ No
If yes, list contaminant(s):		
Is there potential to impact impaired waters, Class A waters, or outstanding resource waters?		☐ Yes ■ No
For stream crossing projects, provide watershed size (see LRMPPT or Stream Stats):		

lrm@des.nh.gov or (603) 271-2147
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
des.nh.gov

SECTION 2 - ELIGIBILITY (Env-Wt 306.03; Env-Wt 310.01; Env-Wt 310.03)

You must confirm that your project meets *all* of the following statements to qualify for the EXP process:

- The project qualifies as a minimum-impact project (Env-Wt 306.03).
- The project does not include activities that are prohibited under RSA 482-A (Env-Wt 306.03(a)).
- The project does not include any work in a jurisdictional area that was started without first obtaining applicable approval (Env-Wt 306.03(b)).
- No work has been done on the subject property pursuant to another EXP or a Statutory Permit-by-Notification (SPN) within 12 months of the date this EXP will be issued. Alternatively, if any work has been done on the subject property pursuant to another EXP or a SPN within 12 months of the date this EXP will be issued, then you are submitting information, including a plan, with this application demonstrating that:
- Work proposed in this application is wholly unrelated to and separate from work already done under the EXP or SPN.
- The work proposed in this EXP application, when combined with work that has been done under previously issued EXPs or SPNs within the last 12 months, does not constitute a project for which a Standard Permit is required (Env-Wt 310.03(a)).
- If the project is located in a PRA, it also qualifies for an impact classification adjustment under Env-Wt 407.02 or a Project-Type Exception (PTE) under Env-Wt 407.04 (Env-Wt 310.01(d)(6)).

☒ My project meets all the statements above. *Proceed to Section 3.*

☐ My project does not meet all of the statements above. **It does not qualify for the EXP process. It either is not permittable or requires a Standard Dredge and Fill Wetlands Permit Application.**

SECTION 3 - INFORMATION ON THE PROPOSED PROJECT (Env-Wt 310.01(c))

Identify the rule(s)/provision(s) which make the project a minimum impact project. Refer to the project list below and the Expedited Minimum Impact (EXP) Project Classification Guidance Document.

☐ Aquatic Vegetation Control Projects (Env-Wt 510.08(a)).
☐ Water Access Structure Construction Projects (Env-Wt 511.06(a)).
☐ Beach Replenishment Projects (Env-Wt 511.07(a)).
☐ Deck or Patio Repair Projects (Env-Wt 511.08(a)).
☐ Breakwater Maintenance and Repair Projects (Env-Wt 512.07(b)).
☐ Docking and Accessory Docking Structure Construction, Repair, and Replacement Projects (Env-Wt 513.24(a)).
☐ Docking Structure Modification Projects (Env-Wt 513.25(a)).
☐ Accessory Docking Structure Installation, Construction, Modification, Repair, Replacement (Env-Wt 513.26(a)).
☐ Canopy Projects (Env-Wt 513.27(a)).
☐ Bank or Shoreline Stabilization Construction Projects (Env-Wt 514.07(a)).
☐ Dug-in Basins and Boathouse Construction or Modification Projects (Env-Wt 515.06(a), (b)).
☐ Dug-in Basins and Boathouse Maintenance and Repair Projects (Env-Wt 515.07(a)).
☐ Intake and Outflow Structure Construction, Maintenance and Repair Projects (Env-Wt 516.05; Env-Wt 516.06(b)).
☒ Trail or Pathway Projects (Env-Wt 517.06(a); Env-Wt 517.06(d)).
☐ Boardwalk Projects (Env-Wt 517.07(a); (Env-Wt 517.09).
☐ Dry Hydrants and Other Non-Docking Structure Projects (Env-Wt 518.07(a)(1), (b)).
☐ Pond Construction, Maintenance, and Repair Projects (Env-Wt 519.08(a), (b); Env-Wt 519.09(a)).
☐ Residential Utility Installation Projects (Env-Wt 521.06(a)(7)).

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des.nh.gov

- ☐ Non-tidal Dredging Projects (Env-Wt 523.04(a)).
- ☐ Residential, Commercial, and Industrial Development Projects (Env-Wt 524.06(b)).
- ☐ Restoration/Enhancement Projects (Env-Wt 525.05).
- ☐ Dam Construction, Reconstruction, or Replacement Projects (Env-Wt 526.06(a)).
- ☐ Dam Modification, Repair, or Maintenance Projects (Env-Wt 526.07(a)).
- ☐ Public Highway Projects (Env-Wt 527.06; Env-Wt 527.07).
- ☐ Coastal Projects (Env-Wt 600).
- ☐ Stream Crossing Projects (Env-Wt 903.01(e)).
- ☐ All Other Projects (Env-Wt 407.03).

Provide the project-specific information required by the rule(s) / provision(s). Refer to Chapters Env-Wt 500, Env-Wt 600, and/or Env-Wt 900, as applicable, for project-specific application and design requirements. Please see applicable standard Project Specific Worksheets for guidance.

The project impacts will remain within the existing footprint of the trail per Env-Wt 517.04(a), and will not impact tidal wetlands below the HOTL or undeveloped tidal buffer zones. The project's purpose of repairing the trail so that user's will stay in the existing trail corridor will help protect the buffer zone's ability to protect habitat values and tidal environments per Env-Wt 604.02(c)

The project will comply with BMPs outlined in "Best Management Practices NH Trail Construction and Maintenance Manual", NH Bureau of Trails, 2017.

☐ Not applicable

For projects on waterbodies, provide shoreline frontage on the property in linear feet:

Briefly describe the project and its purpose. Outline the scope of work to be performed and whether impacts are temporary or permanent. *Do not* reply “See attached."

The purpose of the project is to address a 300 foot linear section of degraded trail that frequently sees muddy conditions. Trail erosion and compaction over time have left the trail below grade, causing muddy trail conditions, and trail widening as walkers skirt the edges of the trail to avoid mud. To address this, we seek to install a turnpike, a trail structure that uses fill to raise the trail surface slightly above the existing ground, and when combine with a layer of drainage stone underneath, keeps the surface of the trail higher than water that would saturate it. All impacts would be within existing developed areas of the tidal wetland buffer zone. The turnpike would be 5 feet wide and 300 feet long and stay entirely withing the existing footprint of the trail, making 1500 square feet of permanent impact. Additionally, a 150 square foot section of lawn inside the tidal

☐ Not applicable

Identify the type of jurisdictional resources to be impacted and the area of impact in square feet and/or linear feet:

The project will impact developed areas of the tidal buffer zones on the property. The turnpike will impact 1500 square feet (300 linear feet) of permanent impact. There will be an additional 150 square feet of temporary impact where the material stockpiles will be located, also in a developed area of the tidal buffer zone.

SECTION 4 - PROJECT LOCATION (Env-Wt 310.01(b))		
Address: 400 Little Harbor Rd		
Town or city: Portsmouth		
Tax map / lot number: 203/008		
US Geological Survey (USGS) topo map waterbody name:		☐ n/a
Latitude / longitude in decimal degrees (to five decimal places)	North: 43.05952	West: 70.73892

SECTION 5 - APPLICANT (DESIRED PERMIT HOLDER) INFORMATION (Env-Wt 310.01(a)) *If the applicant is a trust or a company, then the name of the trust or company should be written as the applicant's name.*		
Name: Society for the Protection of New Hampshire Forests		
Mailing address: 54 Portsmouth St		
Town or city: Concord	State: NH	ZIP: 03301
Phone: 603-224-9945	Email address (optional):	
Electronic communication: by initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 6 - AUTHORIZED AGENT INFORMATION (Env-Wt 310.01(a)) *If the agent is a company, then the name of the company should be written as the agent's name.*		
Name: Dylan Summers - Stewardship Project Manager		
Mailing address: 54 Portsmouth St		
Town or city: Concord	State: NH	ZIP: 03301
Phone: 603-688-5905	Email address (optional): dsummers@forestsociety.org	
Electronic communication: by initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically. DS		

SECTION 7 - PROPERTY OWNER INFORMATION, IF DIFFERENT FROM APPLICANT (Env-Wt 310.01(a)) *If the owner is a trust or a company, then the name of the trust or company should be written as the owner's name.*		
Name:		
Mailing address:		
Town/city:	State:	ZIP:
Phone:	Email address (optional):	
Electronic communication: by initialing here, I hereby authorize NHDES to communicate all matters relative to this application electronically.		

SECTION 8 - APPLICATION FEE (RSA 482-A:3, I)

■ $600 for minimum impact projects. If filing offline, please make check or money order payable to: "Treasurer - State of NH."

SECTION 9 - REQUIRED CERTIFICATIONS (Env-Wt 310.01(d)) *Initial each box below to certify.*	
Initials: DS	The proposed project meets the conditions and limits of the applicable minimum impact project rule.
Initials: DS	All abutters have been notified.
Initials:	If the project is to repair or replace a docking structure, the docking structure is an existing legal structure. (■ N/A)
Initials: DS	The proposal is the alternative with the least adverse impact to jurisdictional areas, as required by Env-Wt 313.03.
Initials: DS	The project is not an after-the-fact application.
Initials: DS	The project is either: • Not located in a PRA. • Located in a PRA but is subject to a classification adjustment under Env-Wt 407.02 or a project-type exception under Env-Wt 407.04.
Initials: DS	The applicant is aware of the limits of the EXP and understands and will comply with all conditions in the EXP and all applicable conditions in Env-Wt 307.
Initials: DS	To the best of the signer's knowledge and belief, all required notifications have been provided.
Initials: DS	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: DS	The signer understands that submission of false, incomplete, or misleading information constitutes grounds for NHDES to: 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 office of professional licensure and certification established by RSA 310.
Initials: DS	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 10 - REQUIRED SIGNATURES (Env-Wt 310.01(d))		
Signature (owner)*:	Print name legibly: Dylan Summers	Date: 6/24/20
**Note: If the applicant is not the owner, each property owner also shall sign and date the application provided that property owner signatures shall not be required for transportation projects adjacent to existing rights-of-way where an easement will be obtained prior to the start of construction (Env-Wt 311.11(d)).* *Check the following box if your project meets this exception:* ☐.		
Signature (applicant, if different from owner):	Print name legibly:	Date:
Signature (agent, if applicable):	Print name legibly: Dylan Summers	Date:

lrm@des.nh.gov or (603) 271-2147
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
des.nh.gov

SECTION 11 - CONSERVATION COMMISSION SIGNATURE (Env-Wt 310.01(h))** *The signed statement from the conservation commission may be submitted electronically.*		
The signature below certifies that the municipal conservation commission or, if there is no conservation commission, the local governing body, has reviewed this application, and the municipality waives its right to intervene on the project, per RSA 482-A:11.		
Authorized commission signature:	Print name legibly:	Date:

SECTION 12 - LOCAL RIVER MANAGEMENT ADVISORY COMMITTEE SIGNATURE (Env-Wt 310.01(i))**		
The signature below certifies that the LAC waives its right to intervene, per RSA 482-A:11: ■ N/A - This project is **not** within a designated river corridor.		
Authorized LAC representative signature:	Print name legibly:	Date:

***Note: If the application is administratively complete, except for the signed statement from the Conservation Commission and/or LAC, the application will be processed under the timelines established in RSA 482-A:3, XIV (Env-Wt 310.02(h)). Applicants may also indicate that they are applying for a minimum impact application under standard processing timelines.*

SECTION 13 - TOWN / CITY CLERK SIGNATURE (Env-Wt 310.01(f))	
As required by RSA 482-A:3, I(a)(1), I hereby certify that the applicant has provided a hard copy and a digital copy of a completed application form, with required attachments, to the town or city indicated below.	
Town or city clerk signature:	Print name legibly:
Town or city:	Date:

DIRECTIONS FOR TOWN OR CITY CLERK

1. Upon confirming receipt of one paper copy and one digital copy of this application, with its attachments, Immediately sign a copy of the application and return it to the applicant for submittal to the department.
2. Retain the hard copy for review by the public and immediately distribute a digital copy of the application package to each of the following bodies:
   a. Local conservation commission.
   b. Local governing body such as select board or town or city council.
   c. Local planning board.

DIRECTIONS FOR APPLICANT

1. Bring one hard copy of the application and its attachments, and one digital copy of the same, to the municipal clerk(s) of the town(s) in which proposed jurisdictional impacts are located. Digital copies shall be in PDF format or other formats approved by NHDES.
2. Submit the copy of the complete application package signed by the municipal clerk(s) to NHDES.
3. State agency applicants may file simultaneously with NHDES and the municipal clerk.

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des.nh.gov

EXPEDITED MINIMUM IMPACT (EXP) WETLANDS PERMIT APPLICATION CHECKLIST

Keep this checklist for your reference. Do not submit it with your application.

APPLICATION CHECKLIST

REQUIRED FOR ALL APPLICATIONS

- ■ The completed, dated, signed and certified application (Env-Wt 310.01).
- ■ Application fee of $600, as determined in RSA 482-A:3, I (Env-Wt 310.01(e)). If filing offline, please make check or money order payable to "Treasurer – State of NH".
- ■ 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 New Hampshire Section 106 Historic / Archaeological Resource review.
- ■ A copy of the town tax map(s) showing the location of the proposed project in relation to abutters (Env-Wt 310.01(b)(2)).
- ■ A list of abutters' names and mailing addresses to cross-reference with the tax map (Env-Wt 310.01(b)(3)).
- ■ A copy of the appropriate US Geological Survey map with the property and project clearly marked (Env-Wt 310.01(b)(4)).
- ■ Photos that meet all of the following criteria:
  - ■ Clearly show the area to be impacted.
  - ■ Are mounted or printed no more than two per sheet on 8.5-inch x 11-inch paper.
  - ■ Are annotated to explain impact (Env-Wt 310.01(b)(6)).
- ■ DataCheck Tool results and identification number (Env-Wt 310.01(b)(8)), as well as documentation of any ecological review request made to NHDES with the results and recommendations.
- ■ An accurate drawing showing the precise location, with detailed dimensions clearly annotated to document existing site conditions and to show the proposed impacts to the jurisdictional areas (Env-Wt 310.01(c)(4)).
- ■ An accurate drawing to show the impact of the proposed activity on jurisdictional areas, including the following (Env-Wt 310.01(c)(5)):
  - ■ An overview of the property and proposed impact areas in relation to property lines.
  - ■ The scale, if any, used on the drawing.
  - ■ If the drawing is not to scale, the dimensions of all existing and proposed structures, existing and proposed topography, and all other relevant features necessary to clearly define the project.
  - ■ A labeled north-pointing arrow to indicate orientation.
  - ■ A legend that clearly indicates all symbols, line types, and shading used on the plan.
  - ■ The location of the jurisdictional areas delineated and associated wetland delineation notes, in accordance with Env-Wt 400.
  - ■ The proposed construction sequence, including pre-construction through post-construction activities and the relative timing and progression of all work.
  - ■ The location and type of siltation and turbidity controls indicated graphically and labeled or annotated as necessary.
  - ■ For any project using a temporary coffer dam and for any repair of a tier 3 stream crossing, the date, signature, and seal of the licensed professional engineer who prepared or had responsibility for the plan(s).

- ☐ For restoration/enhancement projects, the information required to be shown on a map by Env-Wt 525.
- ■ For tidal minimum impact projects, the information required to be shown on a map by Env-Wt 600, and
- ☐ For minimum impact stream crossing projects, information required to be shown on a map by Env-Wt 900.
- ■ Plans or documentation showing that impacts have been avoided and minimized to the maximum extent practicable per Env-Wt 313.03(a).

■ The linear distance of the project from abutting property boundaries (Env-Wt 310.01(c)(7)).

REQUIRED FOR CERTAIN PROJECT TYPE, AS APPLICABLE

☐ The type of dock construction (Env-Wt 310.01(c)(8)).
☐ The diameter of culvert(s) to be used for road or driveway crossings (Env-Wt 310.01(c)(8)).
☐ The additional information specified in Env-Wt 522 for minimum-impact agricultural applications (Env-Wt 310.01(c)(8)).
☐ Plans for maintenance of retaining walls, as specified in Env-Wt 514 (if applicable; Env-Wt 310.01(c)(8)).
☐ Specifications and plans for maintenance of rip-rap, as required by Env-Wt 514 (Env-Wt 310.01(c)(8)).
■ Any other project-specific plan, cross section, or information required under Env-Wt 500 and as described in the project-specific worksheet (Env-Wt 310.01(c)(8)).
■ Information required on the Coastal Resource Worksheet for coastal projects under Env-Wt 600.
☐ Prime Wetlands information required under Env-Wt 700.
☐ Information requested on the Stream Crossing Worksheet required by Env-Wt 900.
☐ Agricultural activities only: A signed statement by the county conservation district or certified wetland scientist certifying compliance with all conditions as described in Env-Wt 522.06(a)(2). (Env-Wt 310.01(g))

lrm@des.nh.gov or (603) 271-2147
29 Hazen Drive, PO Box 95, Concord, NH 03302-0095
des.nh.gov

COASTAL RESOURCE WORKSHEET

Water Division/Land Resources Management
Wetlands Bureau

Check the Status of your Application

RSA/Rule: RSA 482-A/ Env-Wt 600

APPLICANT LAST NAME, FIRST NAME, M.I.: **Summers, Dylan, M**

This worksheet may be used to present the information required for projects in coastal areas, in addition to the information required for Lower-Scrutiny Approvals, Expedited Permits, and Standard Permits under Env-Wt 603.01.

Please refer to Env-Wt 605.03 for impacts requiring compensatory mitigation.

SECTION 1 - REQUIRED INFORMATION (Env-Wt 603.02; Env-Wt 603.06; Env-Wt 603.09)

The following information is required for projects in coastal areas.

Describe the purpose of the proposed project, including the overall goal of the project, the core project purpose consisting of a concise description of the facilities and work that could impact jurisdictional areas, and the intended project outcome. Specifically identify all natural resource assets in the area proposed to be impacted and include maps created through a data screening in accordance with Env-Wt 603.03 (refer to Section 2) and Env-Wt 603.04 (refer to Section 3) as attachments.

This project is intended to repair a degraded section of walking trail at Creek Farm, part of the Little Harbor Loop Trail. Over many decades of use, the tread surface of the trail has become compacted and eroded, causing the trail to become a depression in the gently sloped terrain, whit a tendency to capture and hold water, causing muddy trail conditions especially during spring and large rain events. When muddy, walkers skirt around the edges of the trail to keep their feet dry, causing the trail to become wider over time, impacting undisturbed areas beside the trail and increasing the sizes of the muddy areas.

Our project intends to repair this damage by rebuilding the trail surface into a durable and well draining section of trail. We plan on building a modified turnpike, a trail structure that uses fill to raise the trail surface above the water table, and improve drainage with layers of drainage stone and low ditching. A basic turnpike design can be referenced in "Best Management Practices for Erosion Control During Trail Maintenance and Construction" (NH Bureau of Trails, 2017)

Our project will be built entierly withing the existing trail corridor, only impacting already disturbed areas of the tidal buffer zone. Besides pruning back invasive species and a few overhanging branches for equipment clearence, we will not impact vegetation outside of the already disturbed trail corridor, and will build over exposed roots to protect trees.

For standard permit projects, provide:

☐ A Coastal Functional Assessment (CFA) report in accordance with Env-Wt 603.04 (refer to Section 3).

☐ A vulnerability assessment in accordance with Env-Wt 603.05 (refer to Section 4).

Explain all recommended methods and other considerations to protect the natural resource assets during and as a result of project construction in accordance with Env-Wt 311.07, Env-Wt 313, and Env-Wt 603.04.

The project shall use appropriate erosion control to stop the spread of fill material during construction - including compost filter socks along the length of the worksite, and silt fencing around material stockpiles. Fill material will be clean and compacted in lifts to stabilize the trail surface and prevent runoff.

Construction activities will remain in the footprint of the existing trail to protect undistrubed vegetation in the tidal buffer, with only minimal pruning of invasive species and one or two overhanging branches needed. Exposed roots in the trail corridor will be built over rather than cut, to protect trees near the trail. Areas of temporary disturbance will be restored per Env-Wt 307.12.

As a result of the project, walkers will remain on the trail rather than skirting it's edges to keep their feet dry, and trail widening will not continue to impact undisturbed areas of the tidal buffer. By putting in a more durable tread surface, the project will minimize erosion to the trail.

Provide a narrative showing how the project meets the standard conditions in Env-Wt 307 and the approval criteria in Env-Wt 313.01.

Besides the above pratices which will minimize impact and protect natural resources during construction, our project has minimal or no impact on natural wetland resources or buffer areas. Equipment will stay on access roads, lawn and in the existing trail corridor during construction. All permenant impacts will be within the existing trail corridor, an already disturbed part of the tidal buffer zone. No rare, threatened or endandgered species will be impacted by the project, per our DES datacheck. Our project is designed to have minimal impact to the buffer area, does not effect hydrologic connections between adjacent fresh and salt water wetlands, and enhances recreational uses.

Provide a project design narrative that includes the following:

☒ A discussion of how the proposed project:

- Uses best management practices and standard conditions in Env-Wt 307;
- Meets all avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
- Meets approval criteria in Env-Wt 313.01;
- Meets evaluation criteria in Env-Wt 313.01(c);
- Meets CFA requirements in Env-Wt 603.04; and
- Considers sea-level rise and potential flooding evaluated pursuant to Env-Wt 603.05;

☒ A construction sequence, erosion/siltation control methods to be used, and a dewatering plan; and

☒ A discussion of how the completed project will be maintained and managed.

Please see attached project design narrative

☒ Provide design plans that meet the requirements of Env-Wt 603.07 (refer to Section 5);

☒ Provide water depth supporting information required by Env-Wt 603.08 (refer to Section 6); and

☐ For any major project that proposes to construct a structure in tidal waters/wetlands or to extend an existing structure seaward, provide a statement from the Pease Development Authority Division of Ports and Harbors (DP&H) chief harbormaster, or designee, for the subject location relative to the proposed structure's impact on navigation. If the proposed structure might impede existing public passage along the subject shoreline on foot or by non-motorized watercraft, the applicant shall explain how the impediments have been minimized to the greatest extent practicable.

SECTION 2 - DATA SCREENING (Env-Wt 603.03, in addition to Env-Wt 306.05)

Please use the Wetland Permit Planning Tool, or any other database or source, to indicate the presence of:

☐ Existing salt marsh and salt marsh migration pathways;

☐ Eelgrass beds;

☐ Documented shellfish sites;

☒ Projected sea-level rise; and

☒ 100-year floodplain.

Conduct data screening as described to identify documented essential fish habitat, and tides and currents that may be impacted by the proposed project, by using the following links:

☒ National Oceanic and Atmospheric Administration (NOAA) Tides & Currents; and

☒ NOAA Essential Fish Habitat Mapper.

☒ Verify or correct the information collected from the data screenings by conducting an on-site assessment of the subject property in accordance with Env-Wt 406 and Env-Wt 603.04.

SECTION 3 - COASTAL FUNCTIONAL ASSESSMENT/ AVOIDANCE AND MINIMIZATION (Env-Wt 603.04; Env-Wt 605.01; Env-Wt 605.02; Env-Wt 605.03)

Projects in coastal areas shall:

☒ Not impair the navigation, recreation, or commerce of the general public; and

☒ Minimize alterations in prevailing currents.

An applicant for a permit for work in or adjacent to tidal waters/wetlands or the tidal buffer zone shall demonstrate that the following have been avoided or minimized as required by Env-Wt 313.04:

☒ Adverse impacts to beach or tidal flat sediment replenishment;

☒ Adverse impacts to the movement of sediments along a shore;

☒ Adverse impacts on a tidal wetland's ability to dissipate wave energy and storm surge; and

☒ Adverse impacts of project runoff on salinity levels in tidal environments.

For standard permit applications submitted for minor or major projects:

☐ Attach a CFA based on the data screening information and on-site evaluation required by Env-Wt 603.03. The CFA for tidal wetlands or tidal waters shall be:

- Performed by a qualified coastal professional; and
- Completed using one of the following methods:

  a. The US Army Corps of Engineers (USACE) Highway Methodology Workbook, dated 1993, together with the USACE New England District *Highway Methodology Workbook Supplement*, dated 1999; or

  b. An alternative scientifically-supported method with cited reference and the reasons for the alternative method substantiated.

For any project that would impact tidal wetlands, tidal waters, or associated sand dunes, the applicant shall:

- ☐ Use the results of the CFA to select the location of the proposed project having the least impact to tidal wetlands, tidal waters, or associated sand dunes;
- ☐ Design the proposed project to have the least impact to tidal wetlands, tidal waters, or associated sand dunes;
- ☐ Where impact to wetland and other coastal resource functions is unavoidable, limit the project impacts to the least valuable functions, avoiding and minimizing impact to the highest and most valuable functions; and
- ☐ Include on-site minimization measures and construction management practices to protect coastal resource areas.

Projects in coastal areas shall use results of this CFA to:

- ☐ Minimize adverse impacts to finfish, shellfish, crustacean, and wildlife;
- ☐ Minimize disturbances to groundwater and surface water flow;
- ☐ Avoid impacts that could adversely affect fish habitat, wildlife habitat, or both; and
- ☐ Avoid impacts that might cause erosion to shoreline properties.

SECTION 4 - VULNERABILITY ASSESSMENT (Env-Wt 603.05)

Refer to the New Hampshire Coastal Flood Risk Summary Part 1: Science and New Hampshire Coastal Flood Risk Summary Part II: Guidance for Using Scientific Projections or other best available science to:

Determine the time period over which the project is designed to serve.

(Not required for EXP permit application)

Identify the project's relative risk tolerance to flooding and potential damage or loss likely to result from flooding to buildings, infrastructure, salt marshes, sand dunes and other valuable coastal resource areas.

(Not required for EXP permit application)

Reference the projected sea-level rise (SLR) scenario that most closely matches the end of the project design life and the project's tolerance to risk or loss.

(Not required for EXP permit application)

Identify areas of the proposed project site subject to flooding from SLR.

(Not required for EXP permit application)

Identify areas currently located within the 100-year floodplain and subject to coastal flood risk.

(Not required for EXP permit application)

Describe how the project design will consider and address the selected SLR scenario within the project design life, including in the design plans.

(Not required for EXP permit application)

Where there are conflicts between the project's purpose and the vulnerability assessment results, schedule a pre-application meeting with the department to evaluate design alternatives, engineering approaches, and use of the best available science.

☐ Pre-application meeting date held:

SECTION 5 - DESIGN PLANS (Env-Wt 603.07, in addition to Env-Wt 311)

Submit design plans for the project in both plan and elevation views that clearly depict and identify all required elements.

The plan view shall depict the following:

☒ The engineering scale used, which shall be no larger than one inch equals 50 feet;

☒ The location of tidal datum lines depicted as lines with the associated elevation noted, based on North American Vertical Datum of 1988 (NAVD 88), derived from https://tidesandcurrents.noaa.gov/datum_options.html, as described in Section 6.

☒ An imaginary extension of property boundary lines into the waterbody and a 20-foot setback from those property line extensions;

☒ The location of all special aquatic sites at or within 100 feet of the subject property;

☒ Existing bank contours;

☒ The name and license number, if applicable, of each individual responsible for the plan, including:

a. The agent for tidal docking structures who determined elevations represented on plans; and

b. The qualified coastal professional who completed the CFA report and located the identified resources on the plan;

☒ The location and dimensions of all existing and proposed structures and landscape features on the property;

☒ Tidal datum(s) with associated elevations noted, based on NAVD 88; and

☒ Location of all special aquatic sites within 100-feet of the property.

The elevation view shall depict the following:

☒ The nature and slope of the shoreline;

☒ The location and dimensions of all proposed structures, including permanent piers, pilings, float stop structures, ramps, floats, and dolphins; and

☒ Water depths depicted as a line with associated elevation at highest observable tide, mean high tide, and mean low tide, and the date and tide height when the depths were measured. Refer to Section 6 for more instructions regarding water depth supporting information.

See specific design and plan requirements for certain types of coastal projects:

- Overwater structures (Env-Wt 606).
- Dredging activities (Env-Wt 607).
- Tidal beach maintenance (Env-Wt 608).
- Tidal shoreline stabilization (Env-Wt 609).
- Protected tidal zone (Env-Wt 610).
- Sand Dunes (Env-Wt 611).

SECTION 6 - WATER DEPTH SUPPORTING INFORMATION REQUIRED (Env-Wt 603.08)

Using current predicted NOAA tidal datum for the location, and tying field measurements to NAVD 88, field observations of at least three tide events, including at least one minus tide event, shall be located to document the range of the tide in the proposed location showing the following levels:

- ☒ Mean lower low water;
- ☒ Mean low water;
- ☒ Mean high water;
- ☒ Mean tide level;
- ☒ Mean higher high water;
- ☒ Highest observable tide line; and
- ☐ Predicted sea-level rise as identified in the vulnerability assessment in Env-Wt 603.05.

The following data shall be presented in the application project narrative to support how water depths were determined:

- ☒ The date, time of day, and weather conditions when water depths were recorded; and
- ☒ The name and license number of the licensed land surveyor who conducted the field measurements.

For tidal stream crossing projects, provide:

- ☐ Water depth information to show how the tier 4 stream crossing is designed to meet Env-Wt 904.07(c) and (d).

For repair, rehabilitation or replacement of tier 4 stream crossings:

- ☐ Demonstrate how the requirements of Env-Wt 904.09 are met.

SECTION 7 - GENERAL CRITERIA FOR TIDAL BEACHES, TIDAL SHORELINE, AND SAND DUNES (Env-Wt 604.01)

Any person proposing a project in or on a tidal beach, tidal shoreline, or sand dune, or any combination thereof, shall evaluate the proposed project based on:

- ☐ The standard conditions in Env-Wt 307;
- ☐ The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;
- ☐ The approval criteria in Env-Wt 313.01;
- ☐ The evaluation criteria in Env-Wt 313.05;
- ☐ The project specific criteria in Env-Wt 600;
- ☐ The CFA required by Env-Wt 603.04; and
- ☐ The vulnerability assessment required by Env-Wt 603.05.

New permanent impacts to sand dunes that provide coastal storm surge protection for protected species or habitat shall not be allowed except:

- ☐ To protect public safety; and
- ☐ Only if constructed by a state agency, coastal resiliency project, or for a federal homeland security project.

Projects in or on a tidal beach, tidal shoreline, or sand dune shall support integrated shoreline management that:

- ☐ Optimizes the natural function of the shoreline, including protection or restoration of habitat, water quality, and self-sustaining stability to flooding and storm surge; and
- ☐ Protects upland infrastructure from coastal hazards with a preference for living shorelines over hardened shoreline practices.

SECTION 8 - GENERAL CRITERIA FOR TIDAL BUFFER ZONES (Env-Wt 604.02)

The 100-foot statutory limit on the extent of the tidal buffer zone shall be measured horizontally. Any person proposing a project in or on an undeveloped tidal buffer zone shall evaluate the proposed project based on:

☒ The standard conditions in Env-Wt 307;

☒ The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;

☒ The approval criteria in Env-Wt 313.01;

☒ The evaluation criteria in Env-Wt 313.05;

☒ The project specific criteria in Env-Wt 600;

☒ The CFA required by Env-Wt 603.04; and

☒ The vulnerability assessment required by Env-Wt 603.05.

Projects in or on a tidal buffer zone shall preserve the self-sustaining ability of the buffer area to:

☒ Provide habitat values;

☒ Protect tidal environments from potential sources of pollution;

☒ Provide stability of the coastal shoreline; and

☒ Maintain existing buffers intact where the lot has disturbed area defined under RSA 483-B:4, IV.

SECTION 9 - GENERAL CRITERIA FOR TIDAL WATERS/WETLANDS (Env-Wt 604.03)

Except as allowed under Env-Wt 606, permanent new impacts to tidal wetlands shall be allowed only to protect public safety or homeland security. Evaluation of impacts to tidal wetlands and tidal waters shall be based on:

☐ The standard conditions in Env-Wt 307;

☐ The avoidance and minimization requirements in Env-Wt 311.07 and Env-Wt 313.03;

☐ The approval criteria in Env-Wt 313.01;

☐ The evaluation criteria in Env-Wt 313.05;

☐ The project specific criteria in Env-Wt 600;

☐ The CFA required by Env-Wt 603.04; and

☐ The vulnerability assessment required by Env-Wt 603.05.

Projects in tidal surface waters or tidal wetlands shall:

☐ Optimize the natural function of the tidal wetland, including protection or restoration of habitat, water quality, and self-sustaining stability to storm surge;

☐ Be designed with a preference for living shorelines over hardened stabilization practices; and

☐ Be limited to public infrastructure or restoration projects that are in the interest of the general public, including a road, a bridge, energy infrastructure, or a project that addresses predicted sea-level rise and coastal flood risk.

US Army Corps of Engineers ®
New England District

Appendix B

New Hampshire General Permits (GPs)
Required Information and Corps Secondary Impacts Checklist

In order for the Corps of Engineers to properly evaluate your application, applicants must submit the following information along with the New Hampshire DES Wetlands Bureau application or permit notification forms. Some projects may require more information. For a more comprehensive checklist, go to https://www.nae.usace.army.mil/Missions/Regulatory/ "Useful Documents, Forms and Publications" and then "Corps Application Form and Guidance." Check with the Corps at (978) 318-8832 for project-specific requirements. For your convenience, this Appendix B is also attached to the State of New Hampshire DES Wetlands Bureau application and Permit by Notification forms.

All Projects:

- New Hampshire Department of Environmental Services (DES) Wetlands Permit Application.
- Request for Project Review Form by the New Hampshire Division of Historical Resources (DHR) https://www.nh.gov/nhdhr/review/rpr.htm.
- Photographs of wetland/waterway to be impacted.
- Purpose of the project.
- Legible, reproducible plans no larger than 11"x17" with bar scale. Provide locus map and plan views of the entire property.
- Typical cross-section views of all wetland and waterway fill areas and wetland replication areas.
- In navigable waters, show mean low water (MLW) and mean high water (MHW) elevations. Show the high tide line (HTL) elevations when fill is involved. In other waters, show ordinary high water (OHW) elevation.
- On each plan, show the following for the project:
    - Vertical datum and the NAVD 1988 equivalent with the vertical units as U.S. feet. In coastal waters this may be mean higher high water (MHHW), mean high water (MHW), mean low water (MLW), mean lower low water (MLLW) or other tidal datum with the vertical units as U.S. feet. MLLW and MHHW are preferred. Provide the correction factor detailing how the vertical datum (e.g., MLLW) was derived using the latest National Tidal Datum Epoch for that area, typically 1983-2001.
    - Horizontal state plane coordinates in U.S. survey feet based on the Traverse Mercator Grid system for the State of New Hampshire (Zone 2800) NAD 83.
    - Project limits with existing and proposed conditions.
    - Limits of any Federal Navigation Project in the vicinity of the project area and horizontal State Plane Coordinates in U.S. survey feet for the limits of the proposed work closest to the Federal Navigation Project;
    - Volume, type, and source of fill material to be discharged into waters and wetlands, including the area(s) (in square feet or acres) of fill in wetlands, below the OHW in inland waters and below the HTL in coastal waters.
    - Delineation of all waterways and wetlands on the project site,:
- Use Federal delineation methods and include Corps wetland delineation data sheets (GC 2).
- For activities involving discharges of dredged or fill material into waters of the U.S., include a statement describing how impacts to waters of the U.S. are to be avoided and minimized, and either a statement describing how impacts to waters of the U.S. are to be compensated for (or a conceptual or detailed mitigation plan) or a statement explaining why compensatory mitigation should not be required for the proposed impacts. Please contact the Corps for guidance.

US Army Corps of Engineers ®
New England District

New Hampshire General Permits (GPs)
Appendix B - Corps Secondary Impacts Checklist
(for inland wetland/waterway fill projects in New Hampshire)

1. Attach any explanations to this checklist. Lack of information could delay a Corps 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 5, regarding single and complete projects.
4. Contact the Corps at (978) 318-8832 with any questions.

1. Impaired Waters	Yes	No
1.1 Will any work occur within 1 mile upstream in the watershed of an impaired water? See http://des.nh.gov/organization/divisions/water/wmb/section401/impaired_waters.htm to determine if there is an impaired water in the vicinity of your work area.*		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 SAS, special wetlands. 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://www2.des.state.nh.us/nhb_datacheck/. The book Natural Community Systems of New Hampshire also contains specific information about the natural communities found in NH.		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?	0	
2.7 What is the area of the proposed fill in wetlands?	0	
2.8 What is the % of previously and proposed fill in wetlands to the overall project site?	0	
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://www2.des.state.nh.us/nhb_datacheck/ USFWS IPAC website: https://ecos.fws.gov/ipac/location/index	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: • 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 21?	N/A	
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?		N/A
5. Historic/Archaeological Resources		
For a minimum, minor or major impact project - a copy of the Request for Project Review (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 11 GC 8(d) of the GP document**	x	

*Although this checklist utilizes state information, its submittal to the Corps is a Federal requirement.
** If your project is not within Federal jurisdiction, coordination with NH DHR is not required under Federal law.

SOCIETY FOR THE PROTECTION OF NEW HAMPSHIRE FORESTS
SINCE 1901

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NHDES Expedited Minimum Impact Permit Application

Society for the Protection of New Hampshire Forests – Creek Farm
400 Little Harbor Rd
Portsmouth, NH

Project Design Narrative – Trail Turnpike

This project is intended to address trail maintenance issues on a 300-foot section of public walking trail at the Society for the Protection of New Hampshire Forests (Forest Society) Creek Farm property in Portsmouth, NH.

The walking trail at Creek Farm, part of the larger Little Harbor Loop Trail that extends on to nearby State Park and City of Portsmouth conservation properties, pre-dates the Forest Society's ownership, and over many decades of use, has degraded trail conditions in some locations, particularly along a 300 foot section of trail that brings walkers along a man made tidal pool and out to the shore of Sagamore Creek. Through years of erosion and soil compaction, this section of trail has fallen below grade, causing water to collect in the depression of the trail in an otherwise relatively dry area, causing frequent muddy and wet trail conditions along this section. During muddy trail conditions, visitors often skirt around the edge of the wet trail to keep their feet dry, causing the trail to slowly become wider as this avoidance creates more impact on the edges, widening the muddy area and causing walkers to go even further off the original trail to avoid mud. As a result of this, the trail is over 5 feet wide in many areas and getting wider over time as more people avoid muddy trail areas.

To address this maintenance issue, the Forest Society is seeking to build a "Turnpike", a trail feature that elevates the trail surface above wet ground, whether natural or due to degraded conditions such as in our case and is referenced in *Best Management Practices for Erosion Control During Trail Maintenance and Construction* (State of New Hampshire Bureau of Trails, 2017).

Our turnpike will use clean, crushed stone fill from a nearby quarry with a base layer of coarse drainage stone, and a layer of well compacting crushed stone aggregate on top to form the tread surface, with geotextile fabric separating the layers from each other and the existing ground. Where appropriate, a shallow ditch on the downhill side will help move water to natural drainage locations, as well as capped stone drains at those same natural drainage locations to help water cross under the trail surface and move downhill away from the trail.

Our turnpike design will use the minimal amount of fill needed to raise the trail surface and allow drainage, while avoiding unnecessary interventions used in turnpikes in more extreme cases/wetter ground, such as extensive ditching on both sides of the trail, timber retaining walls to elevate the surface higher, and culverts crossing under the turnpike.

Permenant and Temporary Impacts and Mitigation

The entire project will take place in the existing trail corridor, with no permeant impacts and minimal temporary impacts outside the existing trail corridor. Filter socks will be installed along the length of the construction zone to minimize runoff of fill during construction. Construction equipment will remain in the existing trail corridor, and only require some pruning of vegetation outside of the trail corridor for required clearance of equipment, pruning back a thicket of invasive species such as buckthorn, honeysuckle, oriental bittersweet and multiflora rose. Construction materials will be stockpiled on an area of lawn near the road. About 1/3rd of the material stockpile area will be in the tidal buffer zone, or 150 square feet of the 450 square feet the stockpile area will cover. Silt fencing will be used around the materials stockpile to prevent downhill run-off, and the area will be restored after construction.

Construction Sequence

The contractor will install filter socks along the length of the project area, and silt fencing below the stockpile area. Materials will be delivered by dump truck to the stockpile area. The contractor will excavate a few inches of soil from the existing trail tread to build the turnpike, disposing of any extra spoils outside of the buffer zone. The contractor will lay a base of geofabric, lay in the base course of drainage stone, and then another layer of geofabric on top. Then the contractor will lay the aggregate that will form the trail surface, compacting it well while moisture content is appropriate. After construction is complete, the contractor will rehabilitate the stockpile area, using grass seed as appropriate.
All construction activities are expected to take around 2 weeks, and will be conducted in Fall of 2026

Maintenance Plan

A small pile of extra surfacing material will be stored on site in a discreet location outside of the tidal buffer zone and away from wetlands. This will be used to patch and repair the surface of the trail as needed if damaged by flooding or excessive rain. Drainage ditching will be maintained several times each year by trained staff or volunteers, clearing the ditches of accumulated organic material. Staff working onsite will inspect the trail conditions on a regular basis.

Flooding and Sea-level Rise

The trail is expected to remain an important recreational opportunity even if sea-level rise were to inundate parts of the trail. Flooding in this location should not cause high velocity flow that would threaten major impacts to the trail, especially since it is designed to mitigate the impacts of water, but staff will repair any damage caused by flooding as needed.

The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

Robert R. Scott, Commissioner

To: Dylan Summers, Society for the Protection of New Hampshire Forest
54 Portsmouth Street
Concord, NH 03301
dsummers@forestsociety.org

From: Ecological Review Section
New Hampshire Department of Environmental Services
cc:
Date: 03/20/2026 (valid until 03/20/2027)
Re: DataCheck Review by NHDES Ecological Review Section
Permits: MUNICIPAL POR - Portsmouth, NH, NHDES - Wetlands Statutory Permit-by-Notification (PBN)

DCT ID: DCT26-0644

Town: Portsmouth
Location: 400 Little Harbor Road

Project Description: Over the coming Summer or Fall we will be doing maintenance on a 300 foot stretch of the Little Harbor Loop Trail that is muddy and wet for parts of the year. We will be building 270 feet of trail turnpike in this section to address the areas of the trail that are muddy and wet.

Next Steps for Applicants:

The New Hampshire Department of Environmental Services (NHDES) Ecological Review Section has reviewed the provided mapped project area against available records of protected species, Exemplary Natural Communities (ENCs), and critical habitat. Based on the project mapping and submitted information, protected species may be impacted by the proposed work activities. Please carefully read the comments and instructions below for next steps to avoid and minimize impacts.

Plant and Exemplary Natural Community Comments: If impacts are proposed to occur at or below the highest observable tide line, then an ecological review with NHDES is required, and a $500 ecological review fee is NOT required. This is because marsh elder (Iva frutescens), protected pursuant to RSA 217-A, occurs adjacent to the proposed project area. To request an ecological review and receive conservation measures to avoid and minimize impacts, follow the instructions provided below. If no impacts are proposed to occur at or below the highest observable tide line, then there is no need for an ecological review for plants.

Wildlife and Critical Habitat Comments: No ecological review needed based on provided information.

Ecological Review Instructions

Pursuant to Env-C 804.01, ecological reviews are either required by rule or recommended to comply with RSA 212-A and 217-A. Pursuant to Env-C 804.02, required ecological reviews that meet certain criteria must pay a $500 fee to request an ecological review.

Instructions regarding how to request an ecological review for plants and/or wildlife are provided below:

When is an Ecological Review for Plants and Exemplary Natural Communities Needed

If this letter includes records of protected plants and/or exemplary natural communities, you may request an Ecological Review from NHDES (see further instructions below).

If no plant or exemplary natural communities are included on this letter, no further plant review is needed.

When is an Ecological Review for Wildlife and Critical Habitat Needed

If this letter includes records of protected wildlife and/or critical habitat, please refer to one of the following next steps:

a. If your project requires an NHDES permit, authorization, or approval you may request an Ecological Review from NHDES (see further instructions below).
b. If your project **does not** need an NHDES permit, authorization, or approval, then no ecological review with NHDES is needed. Instead, you can request a review from the New Hampshire Fish and Game (NHFG) Nongame and Endangered species program. Contact NHFGreview@wildlife.nh.gov or 603-271-2461 to request a review with NHFG.

If no wildlife species or critical habitat are included on this letter, then no further wildlife review is needed.

How to Request an Ecological Review from NHDES

To request an ecological review, access and complete the Ecological Review Request form found at onlineforms.nh.gov.

Submit the completed form and all required attachments by email, mail, or hand delivery to:

New Hampshire Department of Environmental Services
Attn: Ecological Review Section
P.O. Box 95
29 Hazen Drive
Concord, NH 03302-0095
EcologicalReviews@des.nh.gov

For questions about requesting an ecological review, call 603-271-7972.

Federal Compliance

This letter does not constitute compliance with the federal Endangered Species Act (ESA). There may be federally listed species in New Hampshire that are impacted by your activity not included in this letter For ESA compliance, please visit the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (iPaC) website for an official list of federally listed species that may be present in your project area. If a federal agency is involved in your project through funding, permit or other authorization, coordinate your IPaC results with your point of contact at the agency for further ESA review. If there is no federal agency nexus to your project, and you determine through IPaC, habitat evaluations etc. that a project may cause take of a federally listed species, we recommend coordinating with the USFWS' New England Field Office (newengland@fws.gov or 603-223-2541).

Ecological Review Database records:

The following species and habitats may be impacted by the proposed work activities. Please refer to this list when coordinating.

Plant species	State[1]	Federal	Notes
marsh elder (*Iva frutescens*)	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.

[1]Codes: "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.

Disclaimer:
DataCheck Tool screening only includes occurrences of protected species and exemplary natural communities that have been documented and verified by state biologists and ecologists. This letter does not guarantee these are the only protected species and habitat present at this location, only that their presence has not been documented and verified by state biologists and ecologists. As many areas have never been surveyed, or have only been surveyed for certain species, on site surveys are the best way to determine the resources present on your site.

DCT26-0644



www.des.nh.gov
29 Hazen Drive • PO Box 95 • Concord, NH 03302-0095
(603) 271-3503 • Fax: (603) 271-2867 • TDD Access: Relay NH 1-800-735-2964

Outlook

RE: NHDES Ecological Review: DCT26-0644

From DES: Ecological Reviews <EcologicalReviews@des.nh.gov>
Date Wed 4/22/2026 10:30 AM
To Dylan Summers <dsummers@forestsociety.org>

You don't often get email from ecologicalreviews@des.nh.gov. Learn why this is important

Dylan Summers,

Thanks for reaching out about this. Switching the Wetlands SPN to a Standard Dredge & Fill permit will not change the comments you received in your current DataCheck results letter. You may use this email correspondence for permitting to show that DCT26-0644 is still valid after changing the attached permit to a Wetlands Standard Dredge & Fill.

Let me know if you have any questions about this.

Best regards,
Ryan

Ryan Esch (he/him)
Ecological Program Specialist
Ecological Review Section
Land Resources Management Program
Water Division, NH Department of Environmental Services
P.O. Box 95
Concord, NH 03302-0095
603-271-7972
EcologicalReviews@des.nh.gov
DataCheck Tool

IMPORTANT: As of **Jan 19, 2026**, new Env-C 800 rules are in effect. Use the new Ecological Review Request Form on https://onlineforms.nh.gov/nform/ to request NHDES plant and/or wildlife reviews. Refer to the comments and instructions in your DataCheck results letter to learn if an Ecological Review is required, and if there is a fee. Let us know if you need help with this. For wildlife reviews that do not require an NHDES permit, authorization, or approval, contact NHFGreview@wildlife.nh.gov.

NHDES would greatly appreciate your feedback and wants to hear from you. Please take a moment to fill out our short (5-question) NHDES Customer Service Satisfaction Survey.

From: Dylan Summers <dsummers@forestsociety.org>
Sent: Tuesday, April 21, 2026 10:59 AM
To: DES: Ecological Reviews <EcologicalReviews@des.nh.gov>
Subject: Re: NHDES Ecological Review: DCT26-0644

EXTERNAL EMAIL WARNING! This email originated outside of the New Hampshire Executive Branch network. Do not open attachments or click on links unless you recognize the sender and are expecting the email. Do not enter your username and password on sites that you have reached through an email link. Forward suspicious and unexpected messages by clicking the Phish Alert button in your Outlook and if you did click or enter credentials by mistake, report it immediately to helpdesk@doit.nh.gov!

Hi Ryan,

After talking with folks at DES, we have determined we will need a Standard Dredge and Fill Permit, not the SPN that we though we may qualify for. Can I reuse this datacheck for that higher level permit, or should I reapply for a new datacheck?

Thanks
Dylan Summers

Dylan Summers (he/him)

Stewardship Projects Manager

Society for the Protection of NH Forests

Phone: 603.688.5905 (cell)

www.forestsociety.org

Celebrate 125 years of conservation & stewardship with the Forest Society!



From: DES: Ecological Reviews <EcologicalReviews@des.nh.gov>
Sent: Friday, March 20, 2026 6:00 PM
To: Dylan Summers <dsummers@forestsociety.org>
Subject: NHDES Ecological Review: DCT26-0644

You don't often get email from ecologicalreviews@des.nh.gov. Learn why this is important

IMPORTANT: New rules for Env-C 800 Ecological Review became effective January 19, 2026. Please read the Ecological Review Instructions in your DataCheck results letter carefully, as procedures have changed:

- All Ecological Review requests must use the new Ecological Review Request Form, found on onlineforms.nh.gov.

- Some Ecological Review requests may be subject to a $500 fee pursuant to Env-C 804.02.

Attached, please find the NHDES Ecological Review Section's report on whether the proposed project could impact protected species, exemplary natural communities, and critical habitat.

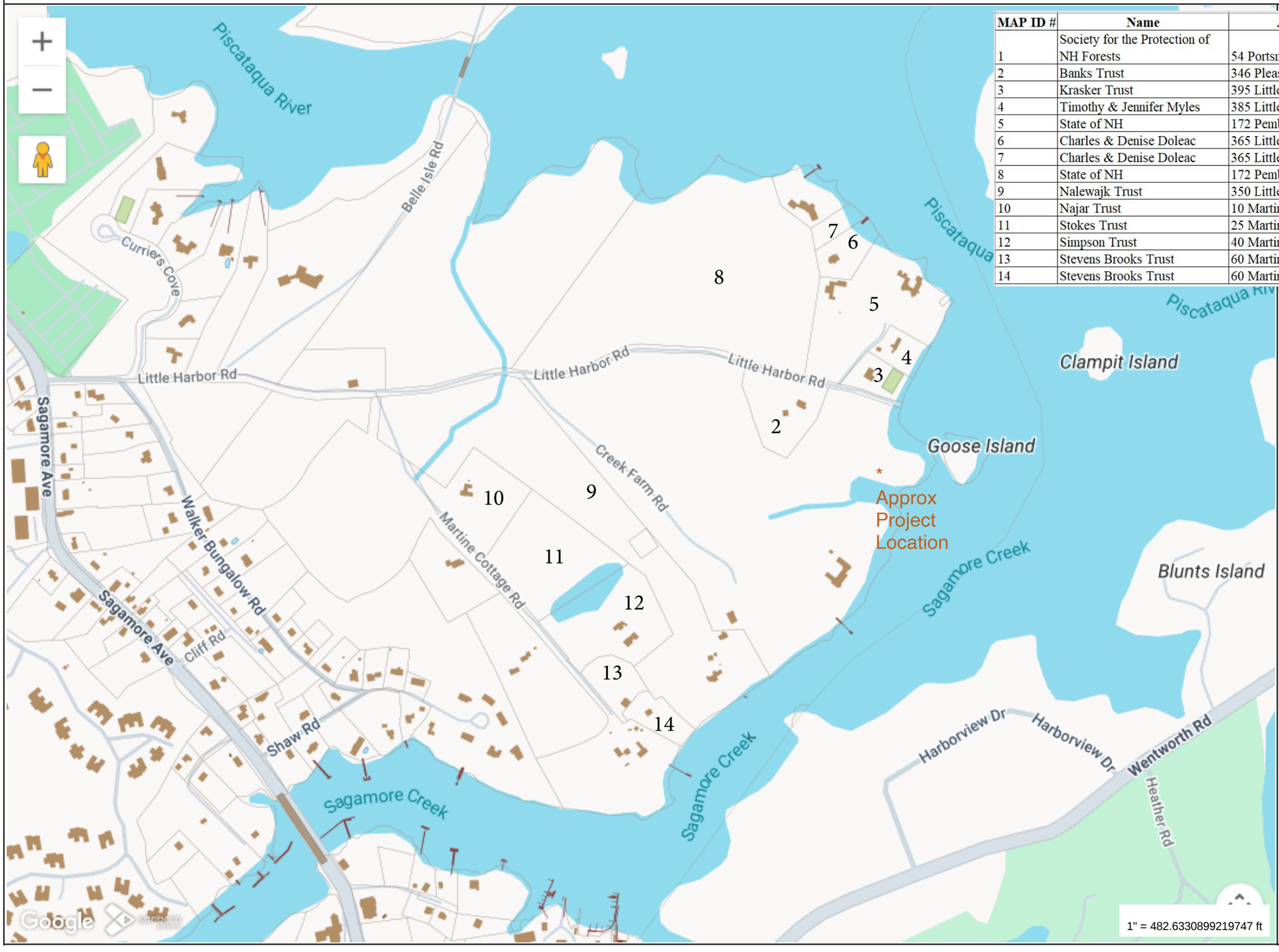
To request an Ecological Review for plants and/or wildlife, please reply to this email with a completed Ecological Review Request Form, all required attachments as indicated on the form, and any additional information requested in the comments of the DataCheck Tool results letter.

One Ecological Review Request Form should be submitted to cover both the plant and wildlife review. If you are seeking an Ecological Review for only plants or only wildlife, please indicate which review type you are requesting.

For questions about requesting an Ecological Review, reply to this email or call (603) 271-7972.

Best,
Ryan

Ryan Esch (he/him)
Ecological Information Specialist
Ecological Review Section
Land Resources Management Program
Water Division, NH Department of Environmental Services
P.O. Box 95
Concord, NH 03302-0095
603-271-7972



MAP ID #	Name	Address	City	State	Zip	Map-Lot
1	Society for the Protection of NH Forests	54 Portsmouth Street	Concord	NH	3301	203-008
2	Banks Trust	346 Pleasant Street	Portsmouth	NH	3801	203-001
3	Krasker Trust	395 Little Harbor Road	Portsmouth	NH	03801	203-002
4	Timothy & Jennifer Myles	385 Little Harbor Road	Portsmouth	NH	03801	203-003
5	State of NH	172 Pembroke Road	Concord	NH	03301	203-004
6	Charles & Denise Doleac	365 Little Harbor Road	Portsmouth	NH	03801	203-005
7	Charles & Denise Doleac	365 Little Harbor Road	Portsmouth	NH	03801	203-006
8	State of NH	172 Pembroke Road	Concord	NH	03301	203-001
9	Nalewajk Trust	350 Little Harbor Road	Portsmouth	NH	03801	202-016
10	Najar Trust	10 Martine Cottage Road	Portsmouth	NH	03801	202-14A
11	Stokes Trust	25 Martine Cottage Road	Portsmouth	NH	03801	202-014
12	Simpson Trust	40 Martine Cottage Road	Portsmouth	NH	03801	202-015
13	Stevens Brooks Trust	60 Martine Cottage Road	Portsmouth	NH	03801	202-017
14	Stevens Brooks Trust	60 Martine Cottage Road	Portsmouth	NH	03801	202-018

MAP FOR REFERENCE ONLY
NOT A LEGAL DOCUMENT

City of Portsmouth, NH makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 03/06/2026

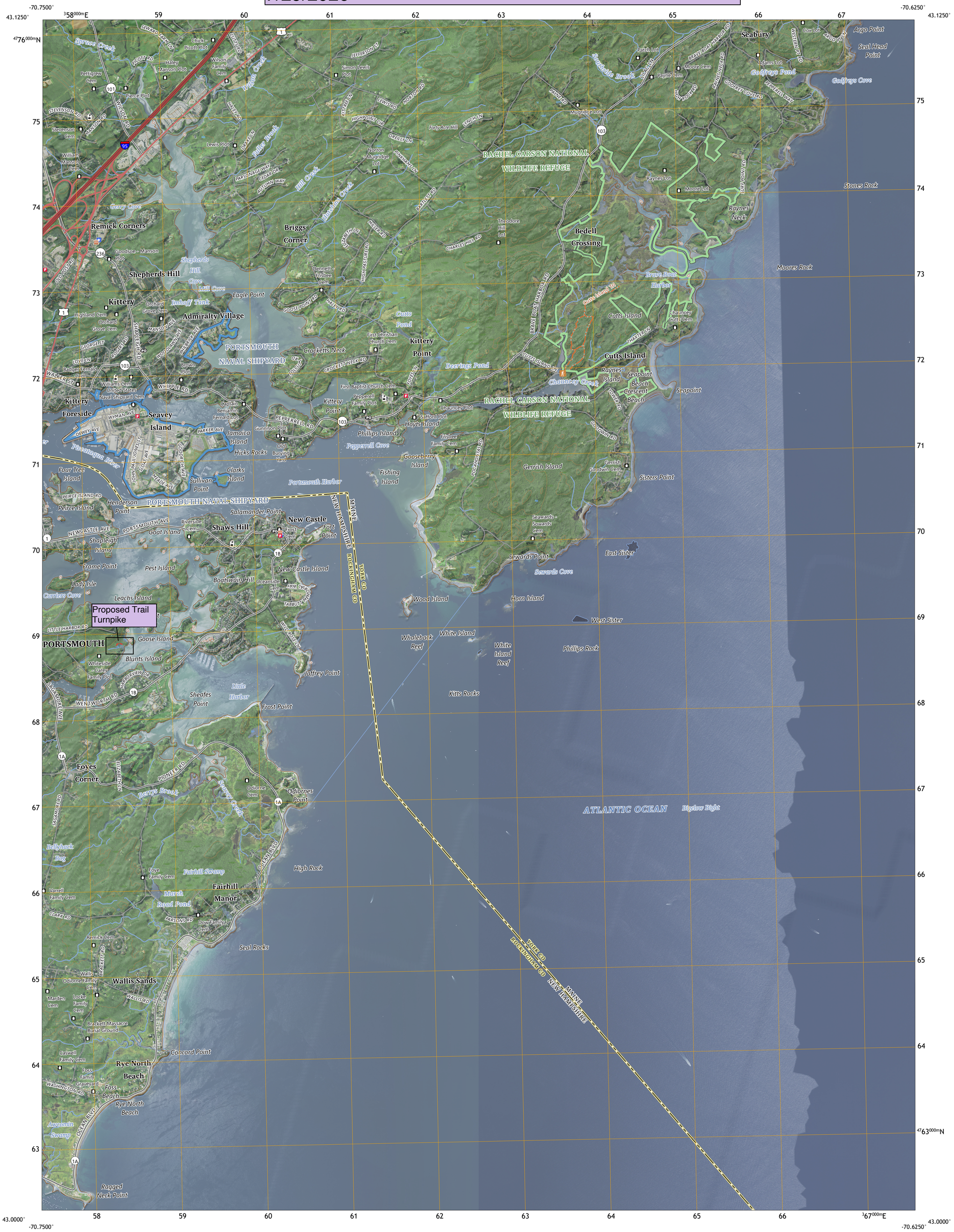
Print map scale is approximate. Critical layout or measurement activities should not be done using this resource.

Society for the Protection of New Hampshire Forests
Minimum Impact Expedited Wetland Permit Application
USGS Topo showing project area
7/29/2026

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

KITTERY QUADRANGLE
MAINE - NEW HAMPSHIRE
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid:Universal Transverse Mercator, Zone 19T

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, August 2018 - August 2018
Roads.....U.S. Census Bureau, 2017 - 2018
Names.....GNIS, 1974 - 2023
Hydrography.....National Hydrography Dataset, 2005 - 2022
Contours.....National Elevation Dataset, 2022
Boundaries.....Multiple sources; see metadata file 2020 - 2022

Wetlands.....FWS National Wetlands Inventory 2001 - 2012

MN
GN
14°29'
257 MILS
1°9'
20 MILS
UTM GRID AND 2023 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000 - m Square ID
CH
Grid Zone Designation
19T

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard.



QUADRANGLE LOCATION

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 Dover East
2 York Harbor
3 York Beach
4 Portsmouth
5 Isles of Shoals OE N
6 Hampton
7 Isles of Shoals OE W
8 Isles of Shoals

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

KITTERY, ME, NH
2024

NSN 7643016370216
NGA REF NO. USGSX24K23800

Photo #1
Taken from west end of project area, looking east. Invasive shrubs along trail will be pruned back for access.
Wet depression on left will be filled



Photo #2
Taken from middle of project area looking southwest
Trail widening visible on right (uphill) side of trail.



Photo # 3
Taken from middle of project area, facing west.

Trail widening visible to right side of photo. large root will be left intact.



Photo #4
Taken from same location as Photo #3, but looking east.
Will build over roots to protect tree health.



Photos #5 and #6 - Tide levels, looking Northwest across water toward project area (in woods past shoreline)



Photo #5
Low Tide
July 28th
2026
10:30am



Photo #
6High
TideJuly
30th
20261:0

Access road unmaintained after here

Build over large exposed roots to protect tree health

Photo 3 & 4

Additional section between muddy areas.
Surfacing only, creates treadway continuity to prevent drainage issues

Photo 2

Filter Socks along length of project

Good cross drainage, ditching not needed in this section

End Flags EOT #11

Prune overhanging branches from apple tree only if needed for equipment clearance

Photo 1

Trim back Glossy Buckthorn, Honeysuckle, Multiflora Rose and Oriental Bittersweet to allow for equipment clearance

Fresh water inland wetland

Fresh water flows through boulders under causeway

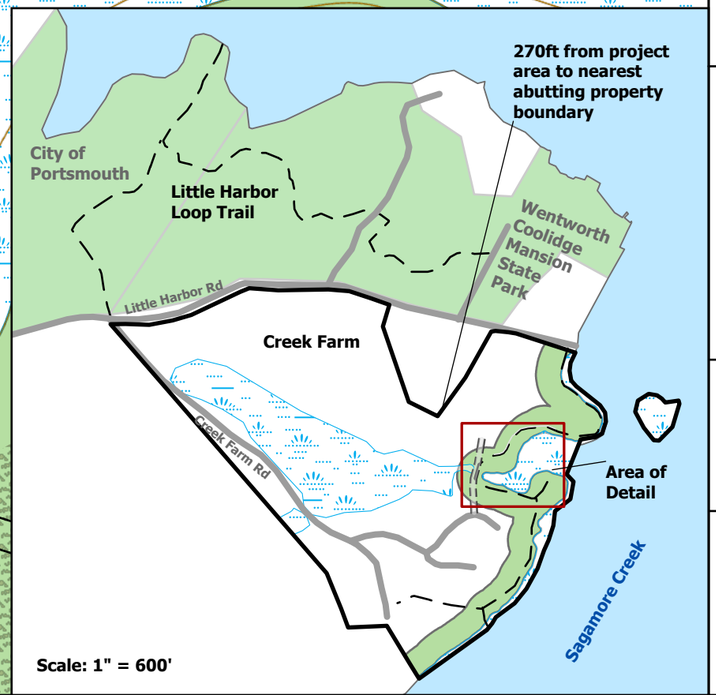
Start Flags EOT #1

Approximate location of blue flags delineating Highest Observable Tide Line, placed by Joe Noel, 3/20/2026. See Wetland Delineation Note for details.

To parking and road

Material Stockpiles with Silt Fencing

30 15 0 30 60 Feet



Legend

- Flagged Highest Observable Tide Line
- Tidal Wetlands (Below HOTL)
- 100 ft Tidal Wetland Buffer
- Lawn
- Little Harbor Loop Trail
- Turnpike to be constructed
- Erosion Control (Silt Socks or Silt Fence)
- Downhill side ditch and lead-off ditches
- Access Road
- Photo Location Indicating Direction
- Material Stockpile
- Shrub to be trimmed back
- Tree near project area
- 6 2 foot Contour Interval
- 10 10 foot Index Contour Interval

Spatial Reference: NAD83 StatePlane New Hampshire (US Survey Feet) Elevations in NAVD88

Tidal Datum: from station at Seavey Island, ME (in NAVD88 elevations): MHHW: 4.18 ft, MHW: 3.76 ft, MLW: -4.39 ft, MLLW: -4.71 ft, MTL: -0.32 ft

Scale: (22"x34") 1"=15', (11"x17") 1"=30ft. Ratio 1:180

Wetland Delineation Note:

The wetland boundary depicted on this plan was delineated/flagged by Joseph W. Noel, NH Certified Wetland Scientist #086 in 2019 and again on March 19, 2026 (only the portion where the trail improvements are planned was reflagged/reviewed). Some of the flags were survey located by Knight Hill Land Surveying Services, Inc. in 2019. The eastern end of the flagging does not appear to have been survey-located in 2019 but follows the same contour line as the survey-located portion. The delineation was conducted in accordance with the U.S. Army Corps of Engineers document Corps of Engineers Wetlands Delineation Manual, (1987) along with the required Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, (Version 2, January 2012) at the federal level and per NH Code of Administrative Rules Env-Wt 602.23 at the state level. See attached signed and stamped report dated 3/21/2026, and the original delineation and functional assessment report dated 3/23/2020 for more information.

Proposed Trail Turnpike
Little Harbor Loop Trail
Creek Farm

NHDES Minimum Impact Expedited Wetland Permit Site Plan

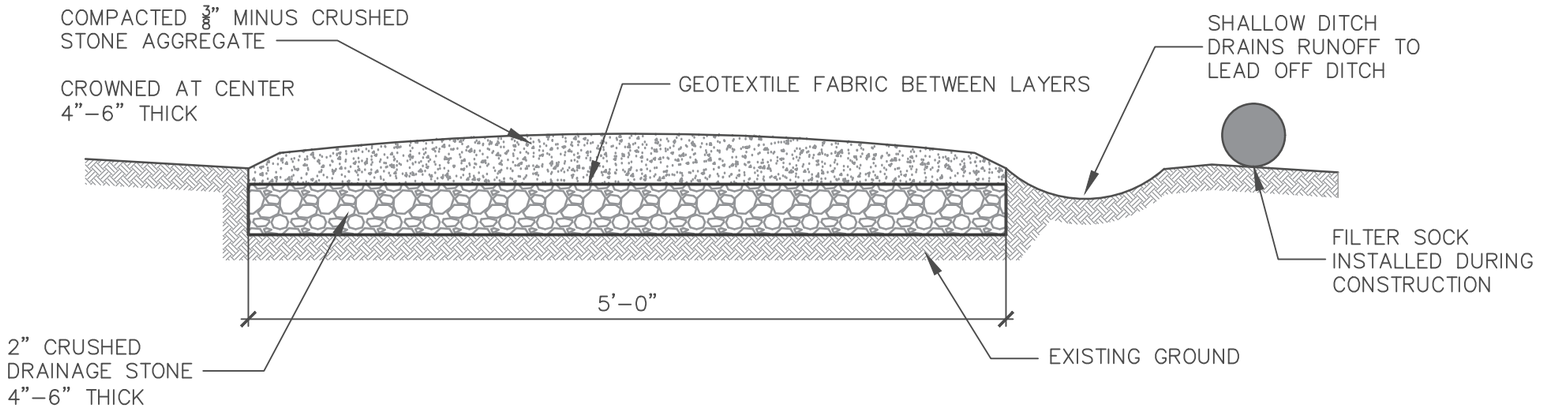
400 Little Harbor Road, Portsmouth, NH
Tax Map 203, Lot 08

Date Submitted: 5/7/2026
Revision:

Prepared By:
Dylan Summers
Stewardship Project Manager
Society for the Protection of New Hampshire Forests
dsummers@forestsocety.org
(603) 224-9945

Owner/Applicant:
Society for the Protection of
New Hampshire Forests
54 Portsmouth St.
Concord, NH, 03301
(603) 224-9945
www.forestsociety.org

Society for the Protection of New Hampshire Forests
Since 1901



TYPICAL CONSTRUCTION CROSS SECTION

Proposed Trail Turnpike
Little Harbor Loop Trail

400 Little Harbor Rd
Portsmouth, NH

NHDES Wetland Permit Application

Society for the Protection of New Hampshire Forests
54 Portsmouth St.
Concord, NH

1" = 1' 0"

7/27/26

Prepared by:
Dylan Summers
Stewardship Projects Manager
603-707-2859
dsummers@forestsociety.org

Photo example of typical construction, including capped stone drain



JOSEPH W. NOEL
P.O. BOX 174
SOUTH BERWICK, MAINE 03908
(207) 384-5587

*CERTIFIED SOIL SCIENTIST * WETLAND SCIENTIST * LICENSED SITE EVALUATOR*

March 21, 2026

Mr. Dylan Summers
Stewardship Projects Manager
Society for the Protection of New Hampshire Forests
54 Portsmouth Street
Concord, New Hampshire 03301

RE: 400 Little Harbor Road, Portsmouth, New Hampshire, JWN #95-445

Dear Dylan:

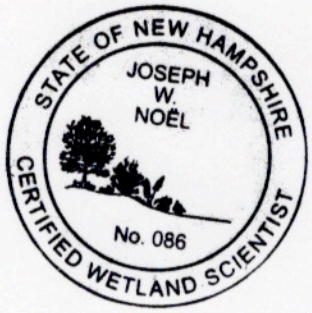
It was a pleasure meeting you on March 19, 2026 at the above-referenced site (known as Creek Farm). You showed me the approximate limits of where the planned Little Harbour Loop trail improvements will occur. These improvements are near the adjacent coastal wetland system (i.e., tidal area). The scope of work only included this limited area where the trail system is being upgraded.

A second visit was made on March 20, 2026 and blue flagging (EOT1 – EOT11) was placed along the highest observable tide line (HOTL). The delineation was done in accordance with NH Code of Administrative Rules Env-Wt 602.23. This boundary was previously flagged by the undersigned on December 13, 2019 using blue flagging and at least a portion of this boundary was located by Knight Hill Land Surveying Services, Inc. The eastern end of the 2026 flagging (i.e., last few flags) may not have been survey-located in 2019 but do follow the same contour line). The approximate location of the EOT1 – EOT11 have been added to the sketch map that you provided for planning purposes. Four of the original 2019 flags (i.e. remaining knots) were observed during the 2026 fieldwork. It appears from the on-site that there are no detectable changes to the wetland boundary. Refer to that attached photo that shows one of the remaining blue flags on a honeysuckle shrub (*Lonicera sp.*). Also noted nearby is a patch of marsh elder (Iva frutescens). This shrub is also known as Jesuit's-Bark or High-Tide Bush (refer to attached photo) and its state status is Threatened. No direct impacts will occur where this patch of shrubs is located.

Please feel free to call if you have any questions or need additional information.

Sincerely,

Joseph W. Noel
NH Certified Wetland Scientist #086



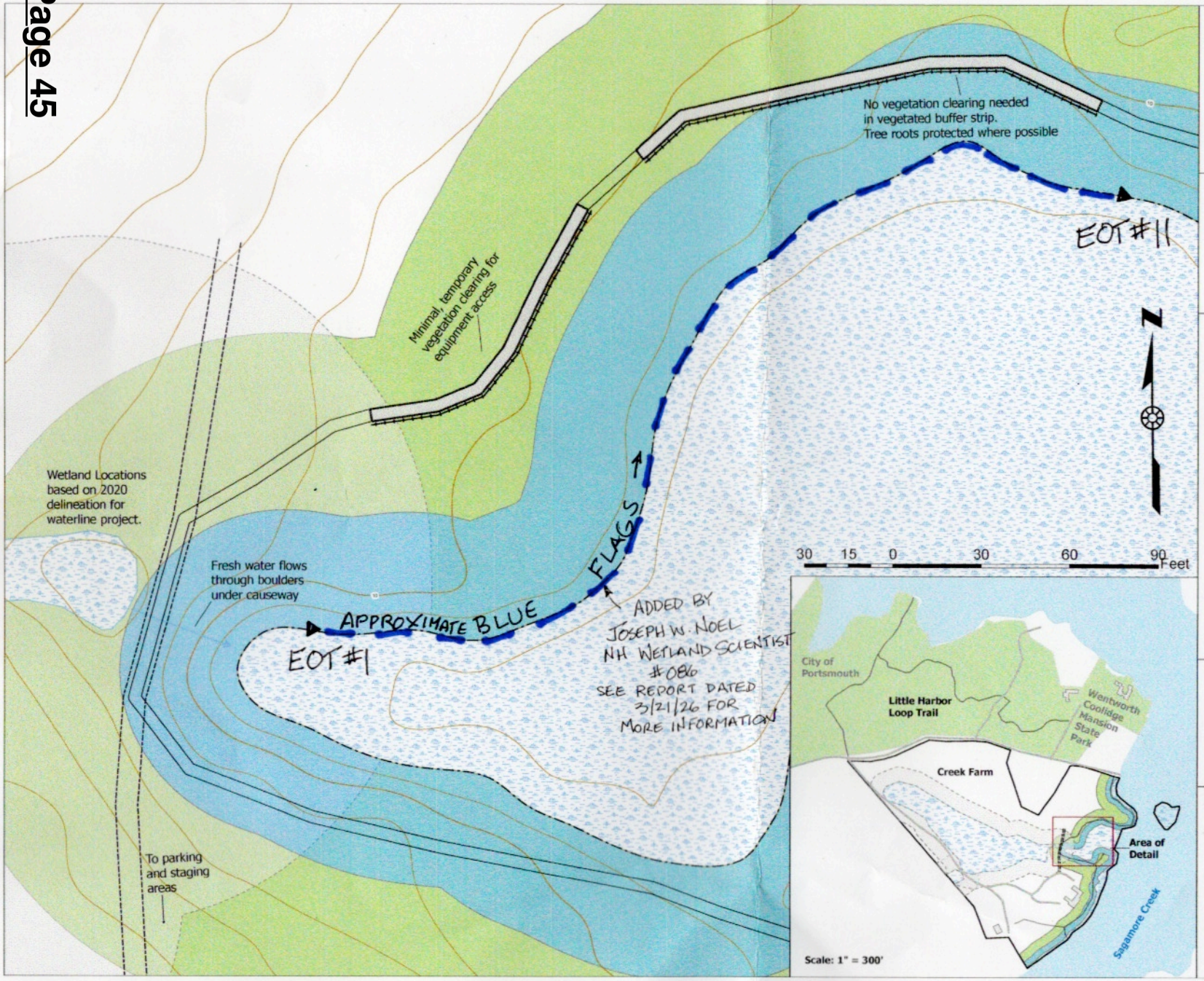
PHOTOS
400 Little Harbor Road – Portsmouth, New Hampshire
(Photos taken by Joseph W. Noel on March 20, 2026)



Remnant of blue flagging from the 2019 delineation



Photo of a patch of marsh elder (*Iva frutescens)*



Proposed Trail Turnpike
Little Harbor Loop Trail
Creek Farm

400 Little Harbor Road
Portsmouth, NH
Tax Map 203, Lot 08

City of Portsmouth Wetlands Conditional Use Permit Site Plan

Date Submitted: 2/20/2026

Legend

- Highest Observable Tide
- Wetlands
- 100 ft Tidal Wetland Buffer
- 40 ft Vegetated Buffer Strip
- 100 ft Freshwater Wetland Buffer
- Little Harbor Loop Trail
- Turnpike to be constructed
- Erosion Control
- Access Road
- 2 foot Contour Interval
- 10 foot Index Contour Interval

Scale:
(22" x 34") - 1" = 15'
(11" x 17") - 1" = 30'

Prepared By:
Dylan Summers
Stewardship Project Manager
Society for the Protection of New Hampshire Forests
dsummers@forestsocety.org
(603) 224-9945

Owner/Applicant:
Society for the Protection of New Hampshire Forests

54 Portsmouth St.
Concord, NH, 03301

(603) 224-9945

www.forestsociety.org

SOCIETY FOR THE PROTECTION OF NEW HAMPSHIRE FORESTS
SINCE 1901

WETLAND DELINEATION
&
FUNCTIONAL ASSESSMENT REPORT

FOR

CREEK FARM
400 LITTLE HARBOR ROAD
PORTSMOUTH, NEW HAMPSHIRE

PREPARED FOR:

ALTUS ENGINEERING, INC.
133 COURT STREET
PORTSMOUTH, NEW HAMPSHIRE 03801

PREPARED BY:

JOSEPH W. NOEL
P.O. BOX 174
SOUTH BERWICK, MAINE 03908

JWN# 95-445
MARCH 23, 2020

JOSEPH W. NOEL
P.O. BOX 174
SOUTH BERWICK, MAINE 03908
(207) 384-5587

*CERTIFIED SOIL SCIENTIST * WETLAND SCIENTIST * LICENSED SITE EVALUATOR*

INTRODUCTION

This report replaces the Partial Wetland Delineation Report/Letter dated January 22, 2020. This report was prepared to aid in the review of the proposed municipal waterline replacement (930'+/- linear feet) for Creek Farm. The property is 30.20+/- acres and is located at 400 Little Harbor Road in Portsmouth, New Hampshire. No direct wetland impacts are planned but the proposed project will require encroaching into the 100-foot wetland buffer to relocate and replace a portion of the waterline serving the property. This Functional Assessment is for the freshwater wetland not the adjacent downstream tidal wetland associated with Sagamore Creek.

WETLAND DELINEATION

To determine the wetland boundary, the methodologies in the U.S. Army Corps of Engineers document *Corps of Engineers Wetlands Delineation Manual* (1987) along with the required *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, (Version 2.0) were used. Wetlands were identified based on soils, vegetation, and wetland hydrology. Except in special cases, all three factors (hydric soils, hydrophytic vegetation, and wetland hydrology) must be present for an area to classify as wetland. A predominance of wetland and upland vegetation was determined from visual estimates in the vegetative layers (herbaceous, shrub, sapling, and tree layers). Plant species indicator status was based on the U.S. Army Corps of Engineers publication *National Wetland Plant List* (2016).

Shallow soil observations were made using a hand auger to assess the soil morphological features and to examine for wetland hydrology. Hydric soil determinations were conducted in accordance with the United States Department of Agriculture, Natural Resources Conservation Service document *Field Indicators of Hydric Soils in the United States, Version 8.1* (2017) along with the manual *Field Indicators for Identifying Hydric Soils in New England* (Version 4, April 2019).

The freshwater wetland boundary in the vicinity of the proposed waterline replacement/relocation was field delineated with sequentially numbered pink and black striped flagging on December 13, 2019. Flagged sequence A1 thru A8 delineates a portion of the freshwater wetland southwest of the former "Carriage House" now unoccupied and used for storage (not part of the wetland assessment area). Flagged sequences B1 thru B20 delineate a portion of the freshwater wetland north of Creek Farm and west of a Sagamore Creek tidal inlet (wetland assessment wetland). The freshwater and tidal wetlands are separated by a culverted trail (culvert type unknown - may be an old stone culvert or simply stone/boulder pile serving as a drainageway). The tidal boundary or HOTL was flagged with blue flagging on April 24, 2019 and extended on December 13, 2019. These flags were located by Knight Hill Land Surveying Services, Inc. and placed on the project plans.

FUNCTIONAL ASSESSMENT

The majority of the freshwater wetland being assessed is nearly level to gently sloping and dominated by a scrub-shrub plant community with forested edges and pockets of emergent vegetation. The National Wetland Inventory (NWI) database classifies the wetland as PFO1C (palustrine, forested, broad-leaved deciduous, seasonally flooded), PSS1C (palustrine, scrub-shrub, broad-leaved deciduous, seasonally flooded), and PEM1C (palustrine, emergent, persistent, seasonally flooded). The soils are poorly drained and fine textured. Project plans show no direct wetland impacts will occur. No formal vernal pool survey was conducted by the undersigned; however, the delineated wetlands near the proposed project did not appear to have the physical characteristics of a vernal pool. Refer to attached photos of the wetland systems and the trail where the waterline will be crossing.

The parcel contains an old farm/estate that contains the main house and the Creek Farm Cottage that was originally built in the 1800s. In ~1997 a conservation easement was established and in 2000 the Society For the Protection Of Forests acquired the property as a conservation area. Currently the land is being used for hiking trails, outdoor education, tree farm, bird sanctuary and wildlife refuge. The freshwater wetland drains down to Sagamore Creek through a constricted outlet (intermittent stream section and wetland swale with a portion that was dug out a long time ago to improve drainage out of the freshwater wetland system.

METHODOLGY

Provided by Altus Engineering, Inc. for the wetland assessment was a plan with the existing condition and where the proposed waterline is being replaced/rerouted. Also reviewed by the undersigned were the following resource maps: NH Wetland Mapper map, NRCS soil survey, FEMA map, and the NWI map. The fieldwork portion of the wetland assessment was conducted on March 1, 2020 using *The Highway Methodology Workbook Supplement: Wetland Functions and Values, A Descriptive Approach* (US Army Corps of Engineers, New England Division, 1999). One completed Wetland Function-Value Evaluation Form has been included (refer to Attachments for details). There is one identified rare species or exemplary community documented on the site by the New Hampshire Natural Heritage Bureau (NHB). Marsh elder/jesuit's-bark (*Iva frutescens*) is documented but is not in the wetland being assessed. A survey was conducted by the undersigned in close proximity to the project and two additional small communities were noted on the upper banks of the downstream tidal system (located ~70' or more from the waterline project). Attached are plant and wildlife lists of the subject development area (not detailed lists of the entire property). Observations were also limited due to winter conditions. The FEMA map verified that the wetland is not within the 100 year floodplain. There are no downstream public or private wells (municipal water on-site). The USGS shows a blue line associated with the subject wetland, however, this stream appears to be dug out in some areas and more intermittent in nature in the freshwater wetland from the limited site observations (refer to stream photo in Attachment section).

The Highway Methodology utilizes list of considerations/qualifiers to assist in determining the presence and evaluating the importance of the following functions and values. The description

of each function and value comes directly from *The Highway Methodology Workbook Supplement* (1999).

1) Groundwater Recharge/Discharge – This function considers the potential for a wetland to serve as a groundwater recharge and/or discharge area.
2) Floodflow Alteration – 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.
3) 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
4) 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.
5) 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.
6) Production Export – This function evaluates the effectiveness of the wetland to produce food or usable products for humans or other living organisms.
7) Sediment/Shoreline Stabilization – This function considers the effectiveness of a wetland to stabilize streambanks 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.
9) Recreation – This value considers the suitability of the wetland and associated watercourses to provide recreational opportunities such as hiking, canoeing, boating, fishing, hunting, and other passive recreational activities.
10) Education/Scientific Value – This value considers the suitability of the wetland as a site for an "outdoor classroom" or a location for scientific study or research.
11) Uniqueness/Heritage – This value considers the effectiveness of the wetland or its associated waterbodies to provide certain special values.
12) Visual Quality/Aesthetics – This value considers the visual and aesthetic quality or usefulness of the wetland.
13) Endangered Species Habitat – This value considers the suitability of the wetland to support threatened or endangered species.

FUNCTION AND VALUES DISCUSSION

The wetlands will not be directly impacted by the proposed waterline. There is one principle function in the wetland system (i.e., Wildlife Habitat). This wetland is favorable for birds (migrating, nesting, etc.) along with a number of smaller mammals. Deer use was also noted in the wetland. Two other principle values were noted but had more to do with the area adjacent to or surrounding the freshwater wetland (i.e., Recreation and Education/Scientific Value). In addition, the wetland system does provide the following functions and values: Groundwater Recharge/Discharge, Floodflow Alteration, Sediment/Toxicant Retention, Nutrient Removal, Production Export, Uniqueness/Heritage, and Visual Quality/Aesthetics. The wetland does not

provide the following functions and values: Fish and Shellfish Habitat, Sediment/Shoreline Stabilization, or Endangered Species Habitat. The adjacent tidal wetland does provide these values and should be considered a highly valuable wetland system. No Historic Preservation database review was provided. This should be conducted due to the historic nature of the site (first settled in 1640).

The wetland buffer to be impacted is almost all along the existing trail system and through an overgrown old field that is dominated by invasive species. The water line is planned in uplands represented by invasive plant species such as: asian bittersweet (*Celastrus orbiculatus*), japanese-knotweed (*Reynoutria japonica*), european buckthorn (*Rhamnus cathartica*), european barberry (*Berberis vulgaris*), japanese barberry (*Berberis thunbergii*), glossy false buckthorn (*Frangula alnus*), rambler rose (*Rosa multiflora*), honeysuckles (*Lonicera spp.*), norway maple (*Acer platanoides*), and black locust (*Robinia pseudoacacia*). These invasive plants are listed in the *New Hampshire Guide to Upland Invasive Species* (2011) or the NH Invasive Plant Species Watch List (April 24, 2019). In addition to the aforementioned invasive plants: eastern white pine (*Pinus strobus*), northern red oak (*Quercus rubra*), quaking aspen (*Populus tremuloides*), apple (*Malus sp.*), stag-horn sumac (*Rhus typhina*), sensitive fern (*Onoclea sensibilis*), and grape (*Vitis sp.*) were also noted. The water line will pass through an existing narrow stone culverted trail where the freshwater "B" flagged series drains to the tidal creek (i.e., wetlands separated by trail). The downslope side of the trail where the waterline is crossing is essentially boulders. The upslope side of the trail is the freshwater wetland. Plant species noted on the upslope side slope side of the trail and in close proximity to the trail in the freshwater wetland included: rambler rose, sedges, smooth arrow-wood, sedges, Japanese barberry, asian bittersweet, and buckthorn. Observations were limited due the winter conditions and area just upslope was still iced over. The trail where the waterline will be crossing between the two wetland systems is the natural constricted point of the freshwater wetland system and being adjacent to the tidal system, this crossing was most likely established here back in the late 1800's.

The upland soils are shallow to moderately deep to bedrock (i.e., ranging from 10 to 40 inches deep) with textures ranging from fine sandy loam to loamy sand. The hydric soils within the freshwater wetlands are primarily fine textured (i.e., very fine sandy loam or finer).

By using the existing gravel path to cross between the wetland system (where existing line is) and rerouting the balance of the waterline through upland that are further away from the tidal system than the existing waterline, there will be no permanent impacts to the wetland buffer or the wetland systems from the new waterline. This will also be further away from the marsh elder communities.

Selective thinning of the vegetation will also occur within the 100-foot buffer. By removing the invasive species, etc. a more natural plant community/buffer could regenerate here. Proper removal of the invasive species should be conducted to prevent further spread. Contractors should be familiar with proper removal of these plants (e.g., New Hampshire Guide to Upland Invasive Species publication is one guide that provides proper removal of invasive species). Soil disturbance will be limited to the waterline corridor, this will not impact the wetlands function and values. This should enhance the wetland buffer.

Wildlife Habitat is the function that will be temporarily impacted by the proposed development. White-tailed deer rubs were noted but wildlife observations were very limited due to the time of

year and several groups of people walking their leashed dogs on the trail system. The impacts to the wildlife will be temporary during the construction of the waterline. The wildlife will return after the construction is completed. Kim Tuttle of the NHB also noted concerns about a nearby bat hibernacula and voluntary recommendations provided Ms. Tuttle in her email dated March 6, 2020 should be followed. If Best Management Practices are strictly adhered to along with the other design features to limit impacts (e.g., SiltSoxx will be installed around the project limits), there should be no secondary impacts to the wetlands or direct impacts to the wetland buffers. This will also be the case with the highly valuable tidal wetland that is downstream. Refer to Altus Engineering, Inc. plans for details on erosion control, etc. Please note, the NH Wetland Functional Assessment worksheet was referred to but is not part of this report. All pertinent information discussed in the worksheet is included in the narrative report or the attached Corps Wetland Function-Value Form.

Joseph W. Noel
New Hampshire Certified Soil Scientist #017
New Hampshire Certified Wetland Scientist #086





ATTACHMENTS

PHOTOS
Creek Farm – 400 Little Harbor Road – Portsmouth, New Hampshire
(Photos taken by Joseph W. Noel on March 1, 2020)



Walkway Where Waterline Crosses Between Wetlands



From The Walkway Looking At The Freshwater Wetland

PHOTOS
Creek Farm – 400 Little Harbor Road – Portsmouth, New Hampshire
(Photos taken by Joseph W. Noel on March 1, 2020)



From Walkway Looking At the Tidal Wetland



Overview Of Wetland Assessment Wetland (Forested Example)

PHOTOS
Creek Farm – 400 Little Harbor Road – Portsmouth, New Hampshire
(Photos taken by Joseph W. Noel on March 1, 2020)



Overview Of Wetland Assessment Wetland (Scrub-Shrub Example)



Overview Of Wetland Assessment Wetland (Emergent Example)

PHOTOS
Creek Farm – 400 Little Harbor Road – Portsmouth, New Hampshire
(Photos taken by Joseph W. Noel on March 1, 2020)



Intermittent Stream Segment Leaving Wetland System Upslope From Walkway



Jesuit's-bark (*Iva frutescens*) – Also Known As Marsh Elder Or High-tide Bush Community

Wetland Function-Value Evaluation Form (freshwater wetland only – not downstream tidal wetland)

Total area of wetland 5.2+/- Human made? No Is wetland part of a wildlife corridor? No or a "habitat island"? No
Adjacent land use Residential Homes Distance to nearest roadway or other development <100 feet
Dominant wetland system present PSS1 Contiguous undeveloped buffer zone present No
Is the wetland a separate hydraulic system? Yes If not, where does the wetland lie in the drainage basin? .
How many tributaries contribute to the wetland? 1 Wildlife & vegetation diversity/abundance (see attached list) yes attached
PFO Swale

Wetland I.D. Unnamed freshwater wetland
Latitude 43.059 Longitude 70.741
Prepared by: JWN NHCWS #086 Date 3/23/2020
Wetland Impacts: amount subject to change (no direct impacts)
Type N/A Amount N/A
Evaluation based on: Office – Yes Field – Yes
Corps manual wetland delineation
Completed? Yes

Function/Value	Suitability Y	Suitability N	Rationale (Reference #)	Principal Function(s)/Value(s)	Comments
Groundwater Recharge/Discharge	X		6,(7), 9, 10	No	Fine-textured soils limit this function, discharge via intermittent stream/wetland swale only near outlet may contribute to limited groundwater recharge. Wetlands near project (waterline crossing) drain to Sagamore Creek Tidal wetland.
Floodflow Alteration	X		3, (6), (7) , 9, 15 (18)	No	Subject wetland provides limited flood storage from surrounding uplands, Intermittent stream/wetland swale drains to Sagamore Creek via a bedrock natural constricted outlet. Limited floodplain storage near waterline
Fish and Shellfish Habitat (Freshwater)		X	1	No	This function does not appear to apply to the freshwater wetland system. Just downstream of the evaluation area is a special aquatic site. Freshwater wetland has negligble surface water.
Sediment/Toxicant Retention	X		4, 7, 8, 9, (10), 13, 14, 16	No	Wetland structure (basin) can trap sediment. Contains constricted outlet. Some dense vegetation. Limited opportunity exists to trap sediments from overland flow from adjacent parking areas.
Nutrient Removal	X		3, 7, 8, 9, 11, 12, 13, 14	No	Minor potential for nutrient uptake exist, lack of persistent deep open water, little dense vegetation except in limited areas
Production Export	X		1, 2, 4, 5, (7), 12	No	Seeds, fruits, berries, etc., are present intermittent stream provides mode of transportation
Sediment/Shoreline Stabilization		X	2, 7, (9), 12, 15	No	Intermittent stream/wetland swale outlets to Sagamore Creek. No erosive forces in freshwater wetland.
Wildlife Habitat	X		3, (4), 5, 7, 8, 11, (13),(15), 16, 17, 18, 19, (21)	Yes	Favorable for birds (migrating, nesting, insect source, etc.), small mammals, etc. Limited wildlife observations due to winter conditions. Adjacent forested uplands and tidal system increase this function.
Recreation	X		1, (4), 5, 7, 8, 10, 11, 12	Yes*	* = not in freshwater wetland itself but existing trail system provides opportunityfor hiking, birdwatching, etc.. Access to available parking.
Educational/Scientific Value	X		(1), 3, (4), 5, 6, 8, 9, 10, 13, 15, 16	Yes*	* = not in freshwater wetland. Lacks unusual wetland plant community in freshwater wetland, parking is available, handicap accesible. Downstream tidal wetland has threatnend plant. Trail system with some limited views of freshwater wetland.
Uniqueness/Heritage	X		4, 5, 7, 8, 9, 10, 12, (13), (15), 19, (20)	No	Freshwater wetland is not unique. Database search should be conducted for historic features – part of old farm estate dating back to 1887 & first settled in 1640. Downstream is man-made tidal pool.
Visual Quality/Aesthetics	X		1, 3, 4, 5, 7, 8, (9), 10	No	Freshwater wetland is not visually distinct – parking available – trail access provided - Sagamore Creek (adjacent is high quality)
Endangered Species Habitat		X	(1)	No	No trees will be cut for the proposed waterline. NHB and NHFG reviewed proposed project – no expected impacts to sensitive wildife or the Marsh Elder plant communities (noted during wetland assessment) A review should be conducted with the Federal Wildife Service (IPAC) (not provided for the weland assessment).
Ecological Integrity (Required For NH Permits)		X	N/A	No	Old farmland (not natural area), invasive plant species noted in the area, trail system/road in wetland buffer, parking areas, man-made tidal pool, ditch out just upstream from the walkway – alter the natural communities

Sagamore Creek tidal/marine system (very valuable wetland system) is downstream of the walkway (i.e., where waterline will cross). The tidal system is not part of this wetland assessment but pertinent comments will be included. The watershed is ~35 acres and the freshwater wetland being assessed is ~5.2 acres per NH Wetland Mapper.

Plant List

Alder-leaf buckthorn	*Rhamnus alnifolia*
Allegheny blackberry	*Rubus allegheniensis*
American bittersweet	*Celastrus scandens*
Apple	*Malus sp.*
Asian bittersweet	*Celastrus orbiculatus*
Barberry	*Berberis sp.*
Black cherry	*Prunus serotina*
Black locust	*Robinia pseudoacacia*
Bluejoint	*Calamagrostis canadensis*
Bristly dewberry	*Rubus hispidus*
Broad-leaf cat-tail	*Typha latifolia*
Burning bush	*Euonymus alatus*
Common winterberry	*Ilex verticillata*
Cottongrass bulrush	*Scirpus cyperinus*
Eastern marsh fern	*Thelypteris palustris*
Eastern poison ivy	*Toxicodendron radicans*
Eastern white pine	*Pinus strobus*
European barberry	*Berberis vulgaris*
European buckthorn	*Rhamnus cathartica*
Fringed sedge	*Carex crinita*
Glossy False Buckthorn	*Frangula alnus*
Grape	*Vitis sp.*
Honeysuckle	*Lonicera spp.*
Horsetail	*Equisetum sp.*
Japanese barberry	*Berberis thunbergii*
Japanese-knotweed	*Reynoutria japonica*
Jesuit's-bark	*Iva frutescens*
Lamp rush	*Juncus effusus*
Maleberry	*Lyonia ligustrina*
New England American-aster	*Symphyotrichum novae-angliae*
New York fern	*Parathelypteris noveboracensis*
Northern bayberry	*Morella penslyvanica*
Northern bracken fern	*Pteridium aquilinum*
Northern red oak	*Quercus rubra*
Norway maple	*Acer platanoides*
Pointed broom sedge	*Carex scoparia*
Possumhaw	*Viburnum nudum*
Purple loosestrife	*Lythrum salicaria*
Quaking aspen	*Populus tremuloides*
Rambler rose	*Rosa multiflora*
Red maple	*Acer rubrum*
Royal fern	*Osmunda spectabilis*
Sedges	*Carex spp.*
Sensitive fern	*Onoclea sensibilis*

Shag-bark hickory	*Carya ovata*
Silky dogwood	*Cornus amomum*
Smooth arrow-wood	*Viburnum recognitum*
Speckled alder	*Alnus incana*
Stag-horn sumac	*Rhus typhina*
Steeplebush	*Spiraea tomentosa*
White meadowsweet	*Spiraea alba*
Willowherb	*Epilobium sp.*

Wildlife List

American crow	*Corvus brachyrhynchos*
Black-capped chickadee	*Poecile atricapillus*
Blue jay	*Cyanocitta cristata*
Cardinal	*Cardinalis cardinalis*
Carolina wren	*Thryothorus ludovicianus*
Downy woodpecker	*Picoides pubescens*
Eastern chipmunk	*Tamias striatus*
Eastern gray squirrel	*Sciurus carolinensis*
Nuthatch	*Sitta sp.*
White-tailed deer	*Odocoileus virginianus*

** A complete wildlife survey was not conducted. Observations from visual sightings, scat, and tracks.